



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: LEGENDS PINBALL MICRO

Test Model: HA8818

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li hu</i> Li huan





D.1 26dB Bandwidth

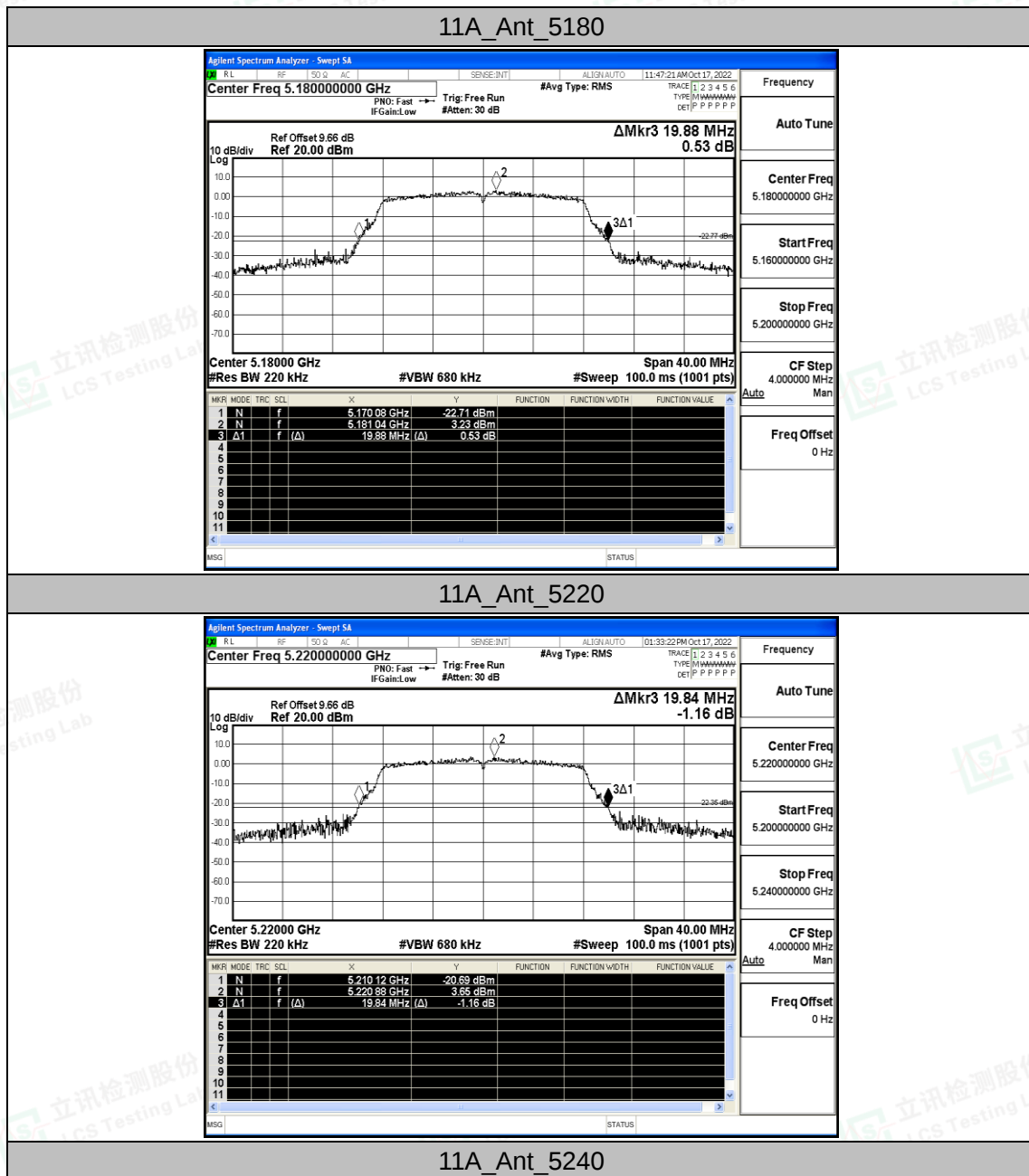
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5180	19.880	5170.080	5189.960	---	PASS
		5220	19.840	5210.120	5229.960	---	PASS
		5240	19.960	5230.080	5250.040	---	PASS
11N20SISO	Ant	5180	20.280	5169.920	5190.200	---	PASS
		5220	21.160	5209.840	5231.000	---	PASS
		5240	20.440	5229.680	5250.120	---	PASS
11N40SISO	Ant	5190	40.240	5170.000	5210.240	---	PASS
		5230	40.160	5209.920	5250.080	---	PASS
11AC20SISO	Ant	5180	20.200	5169.920	5190.120	---	PASS
		5220	20.160	5209.920	5230.080	---	PASS
		5240	20.160	5229.920	5250.080	---	PASS
11AC40SISO	Ant	5190	40.480	5169.760	5210.240	---	PASS
		5230	40.400	5209.920	5250.320	---	PASS
11AC80SISO	Ant	5210	80.480	5169.840	5250.320	---	PASS





Test Graphs

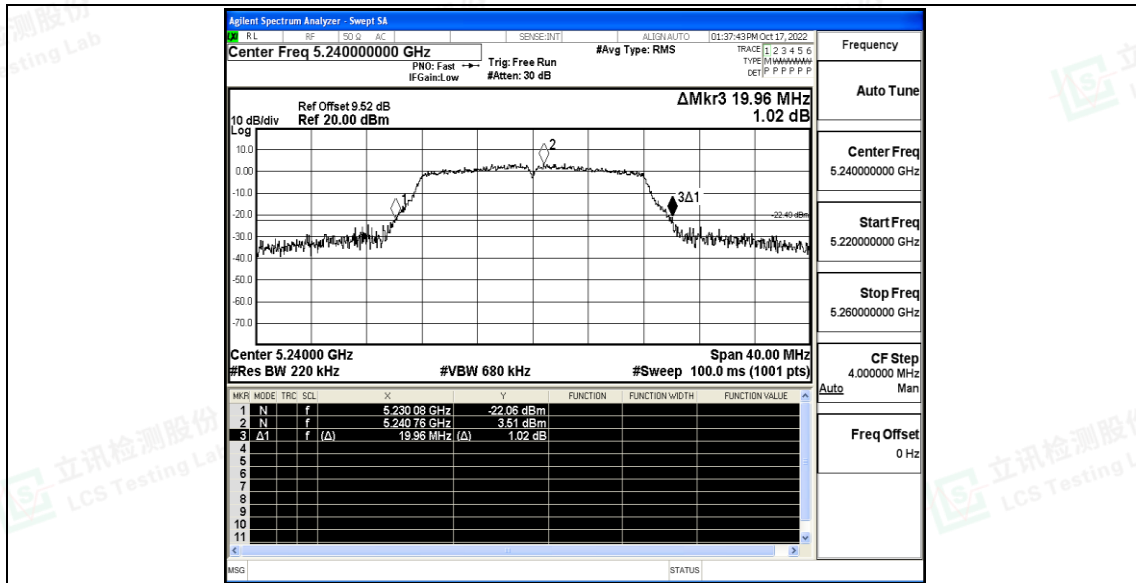


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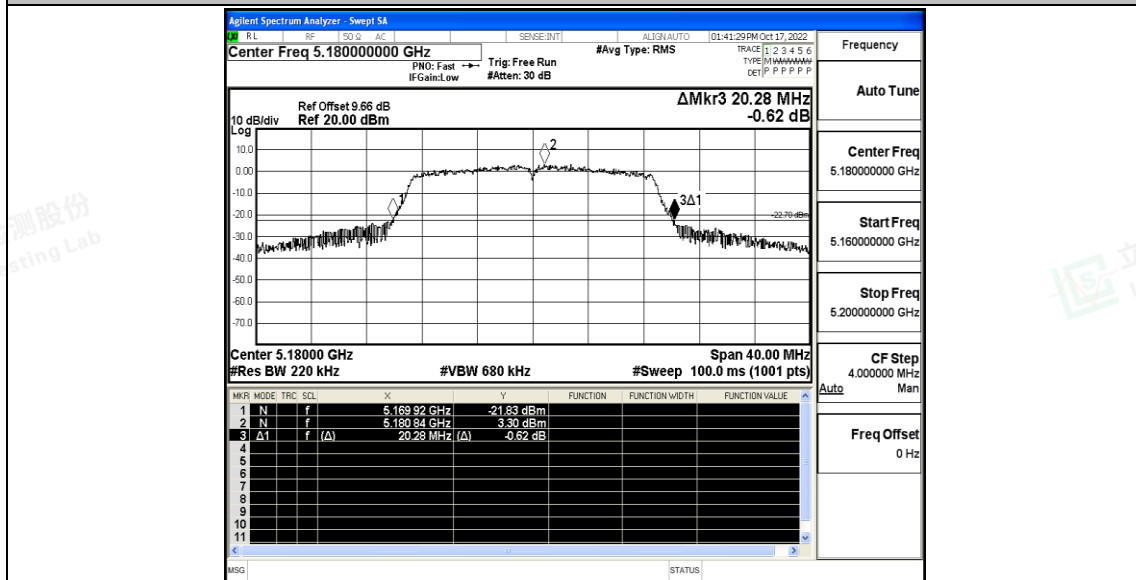
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_5180



11N20SISO_Ant_5220

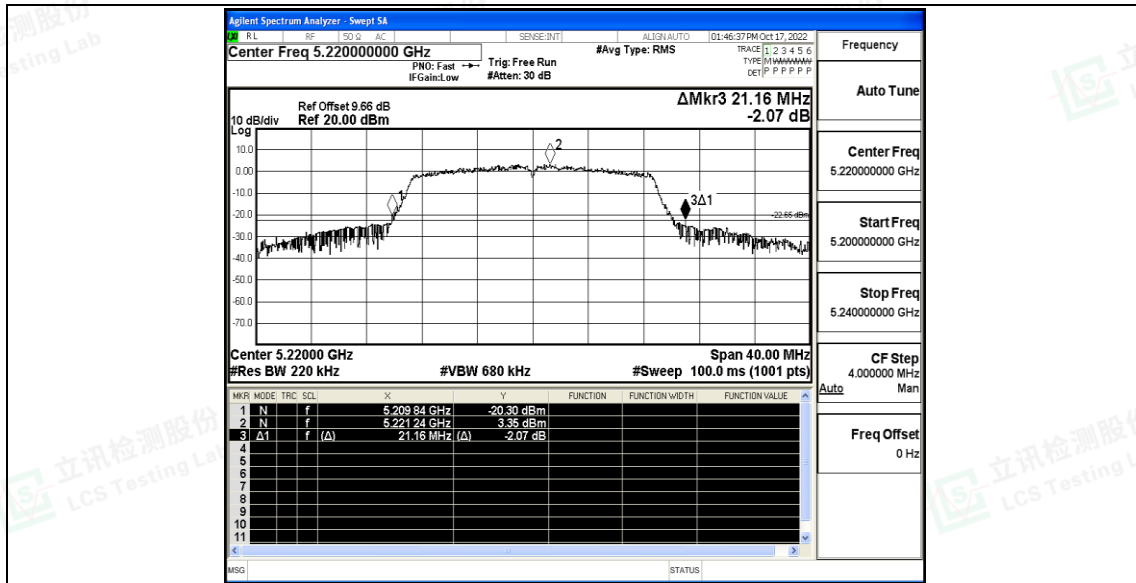


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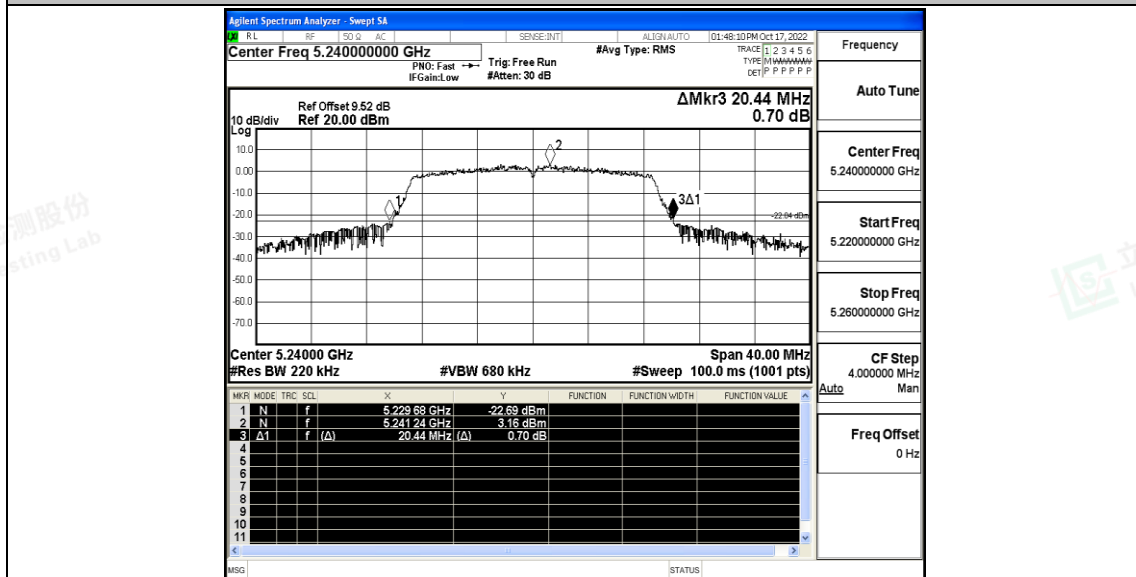
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

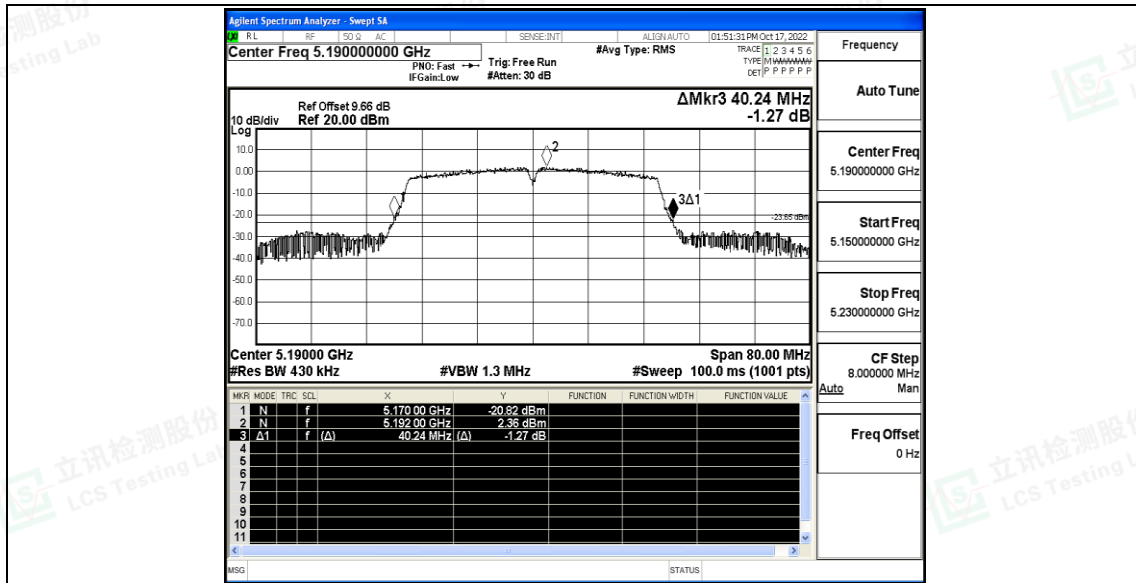


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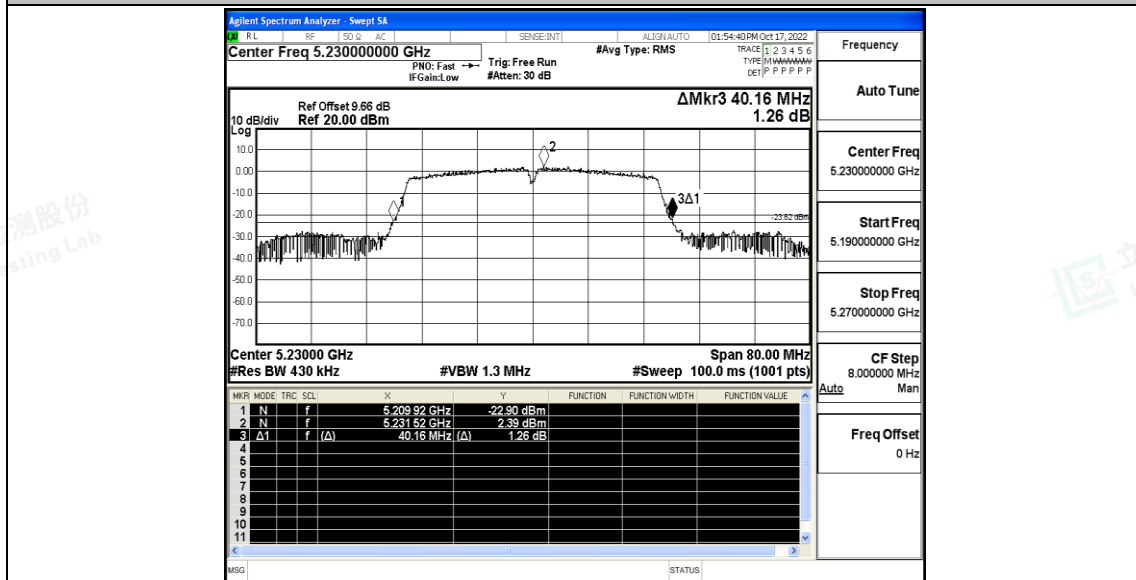
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

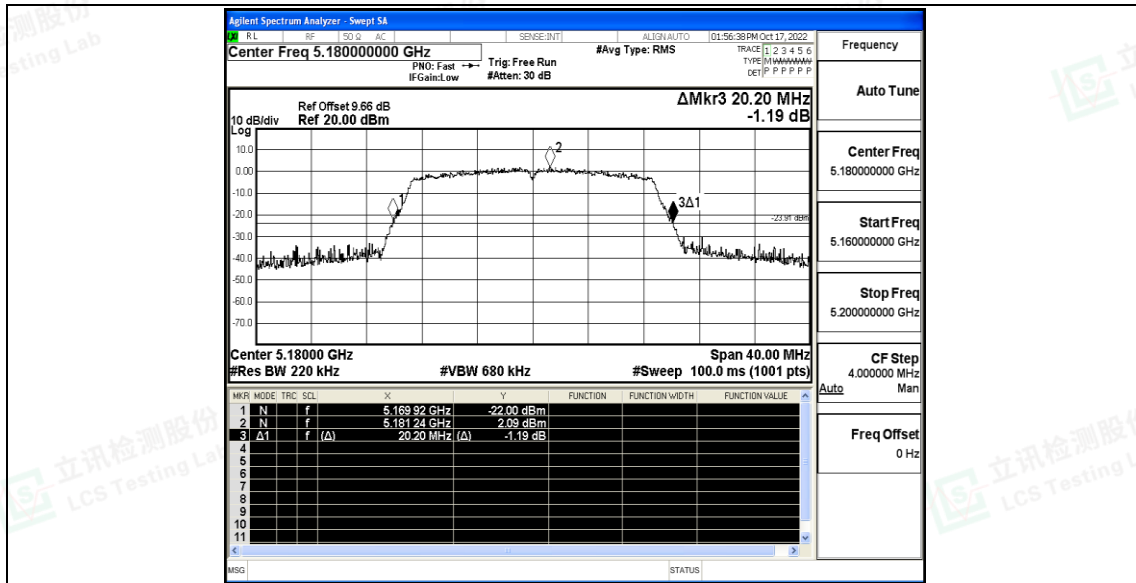


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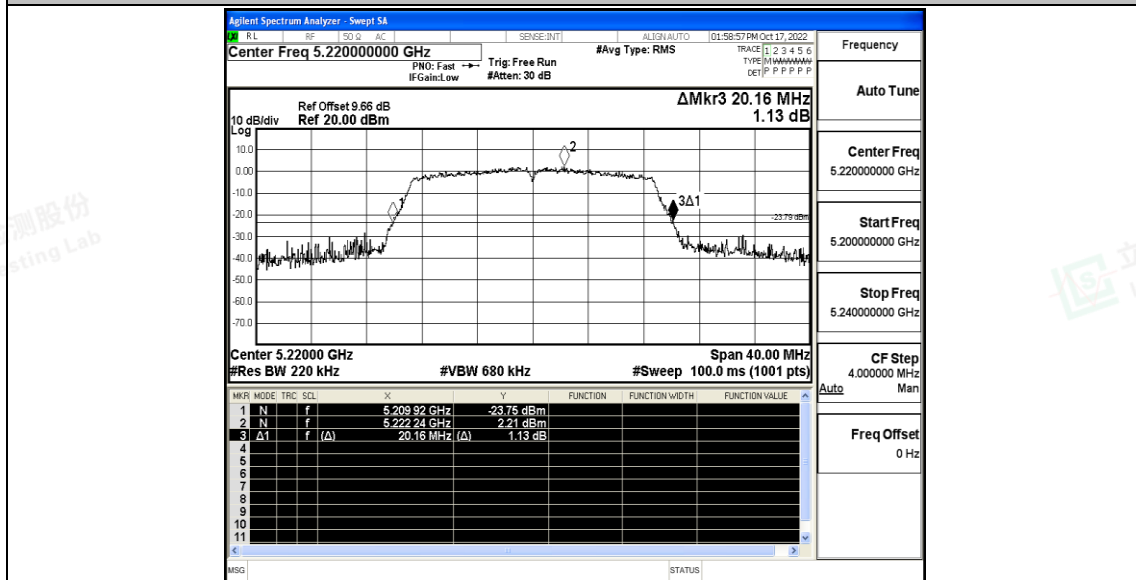
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

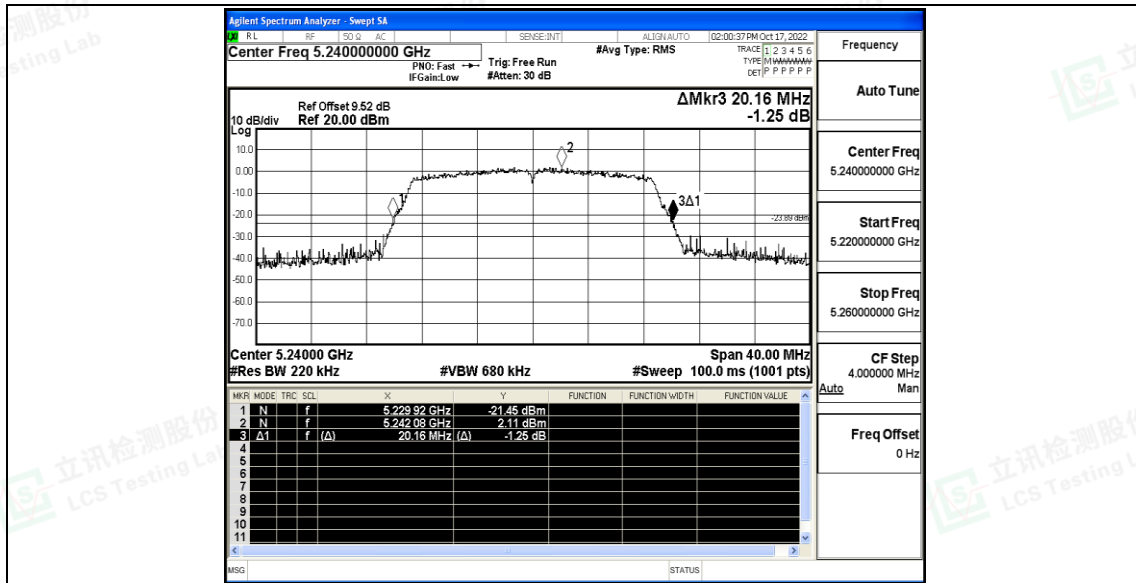


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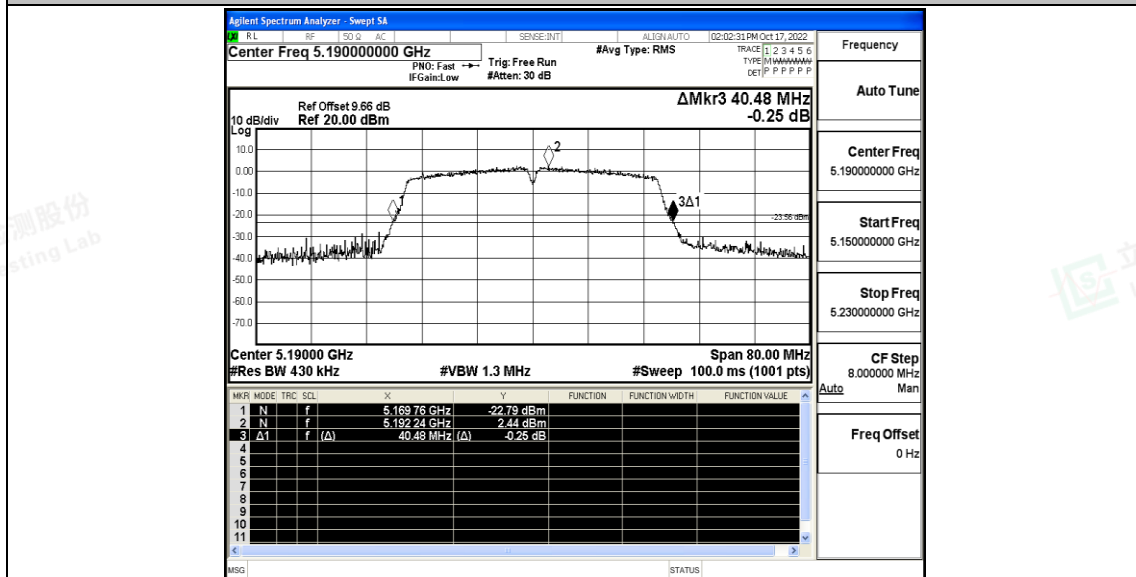
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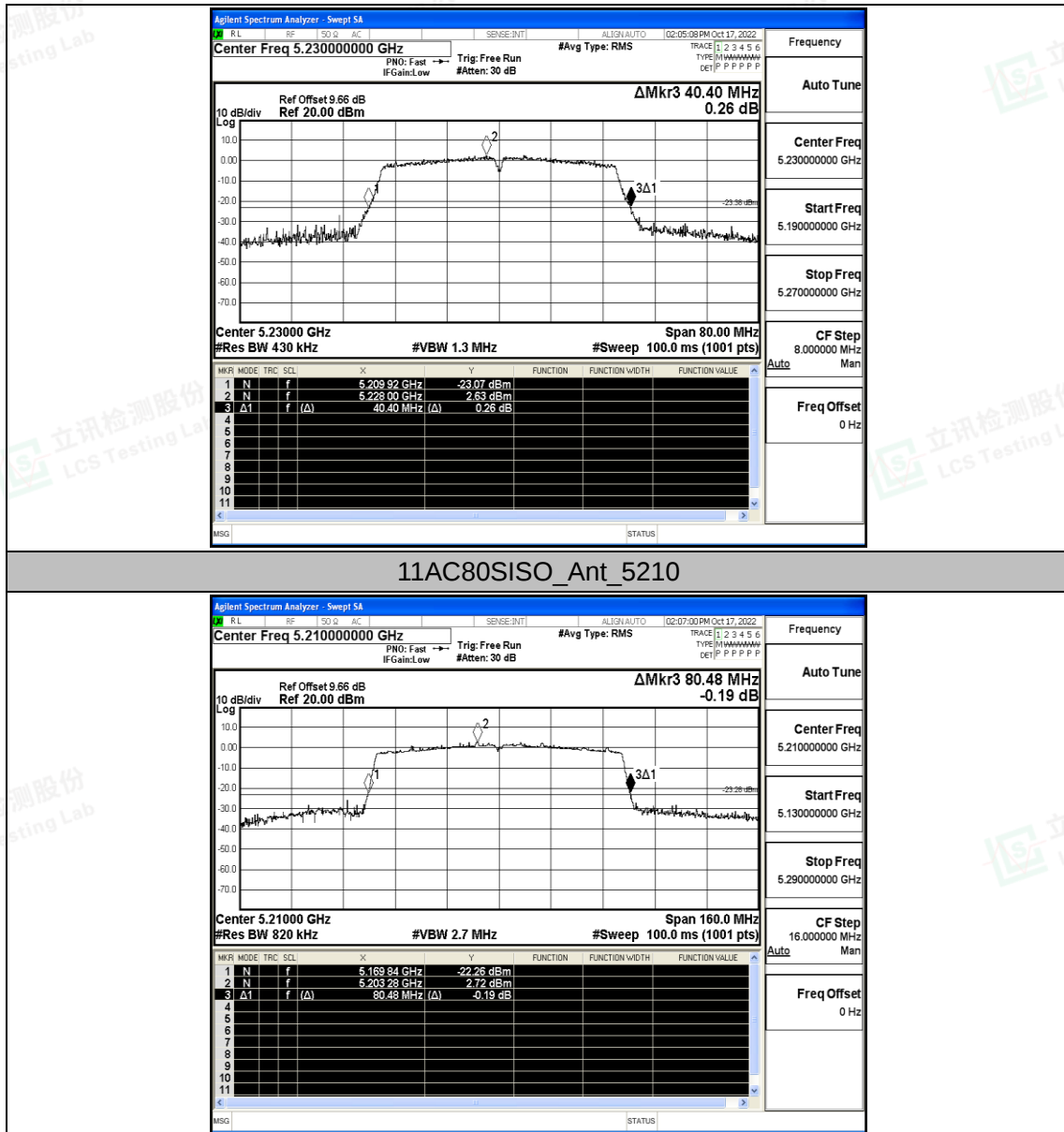


11AC40SISO_Ant_5190



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	12.66	≤23.98	PASS
		5220	12.53	≤23.98	PASS
		5240	12.56	≤23.98	PASS
11N20SISO	Ant	5180	12.45	≤23.98	PASS
		5220	12.64	≤23.98	PASS
		5240	12.43	≤23.98	PASS
11N40SISO	Ant	5190	11.47	≤23.98	PASS
		5230	11.66	≤23.98	PASS
11AC20SISO	Ant	5180	11.50	≤23.98	PASS
		5220	11.69	≤23.98	PASS
		5240	11.52	≤23.98	PASS
11AC40SISO	Ant	5190	11.51	≤23.98	PASS
		5230	11.52	≤23.98	PASS
11AC80SISO	Ant	5210	11.63	≤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	2.17	≤11.00	PASS
		5220	2.13	≤11.00	PASS
		5240	2.15	≤11.00	PASS
11N20SISO	Ant	5180	1.85	≤11.00	PASS
		5220	2.02	≤11.00	PASS
		5240	1.84	≤11.00	PASS
11N40SISO	Ant	5190	-2.05	≤11.00	PASS
		5230	-1.81	≤11.00	PASS
11AC20SISO	Ant	5180	0.83	≤11.00	PASS
		5220	1.04	≤11.00	PASS
		5240	0.9	≤11.00	PASS
11AC40SISO	Ant	5190	-2.03	≤11.00	PASS
		5230	-1.93	≤11.00	PASS
11AC80SISO	Ant	5210	-5	≤11.00	PASS

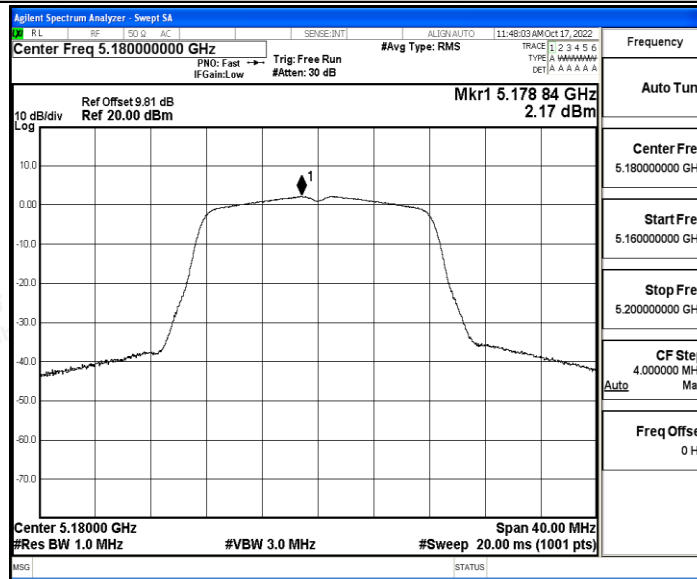
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.



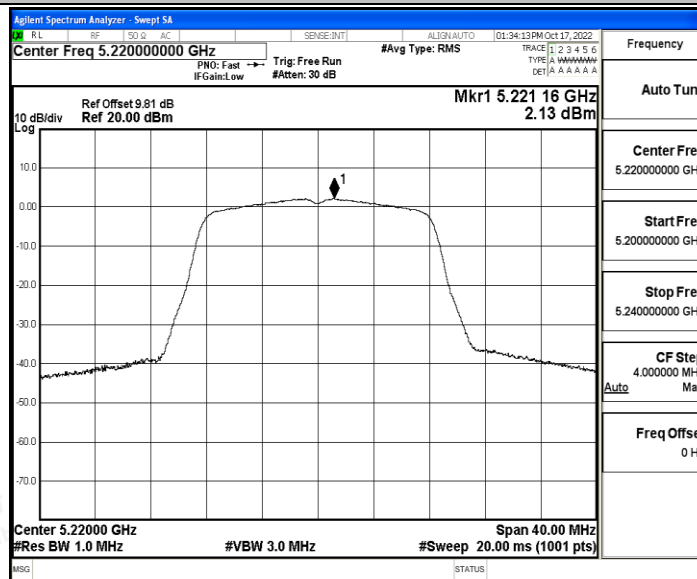


Test Graphs

11A_Ant_5180

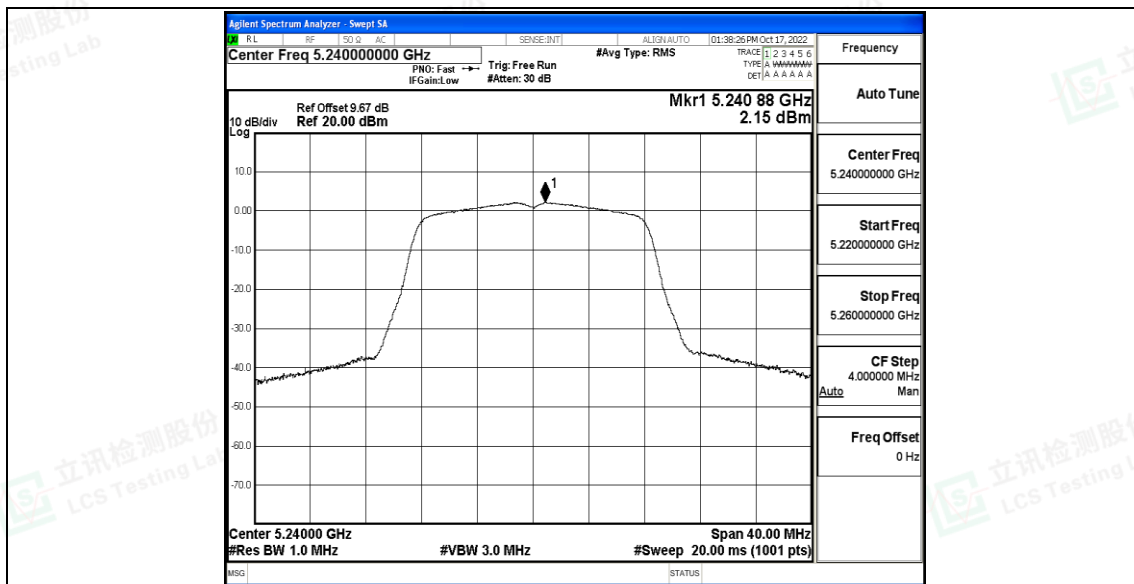


11A_Ant_5220

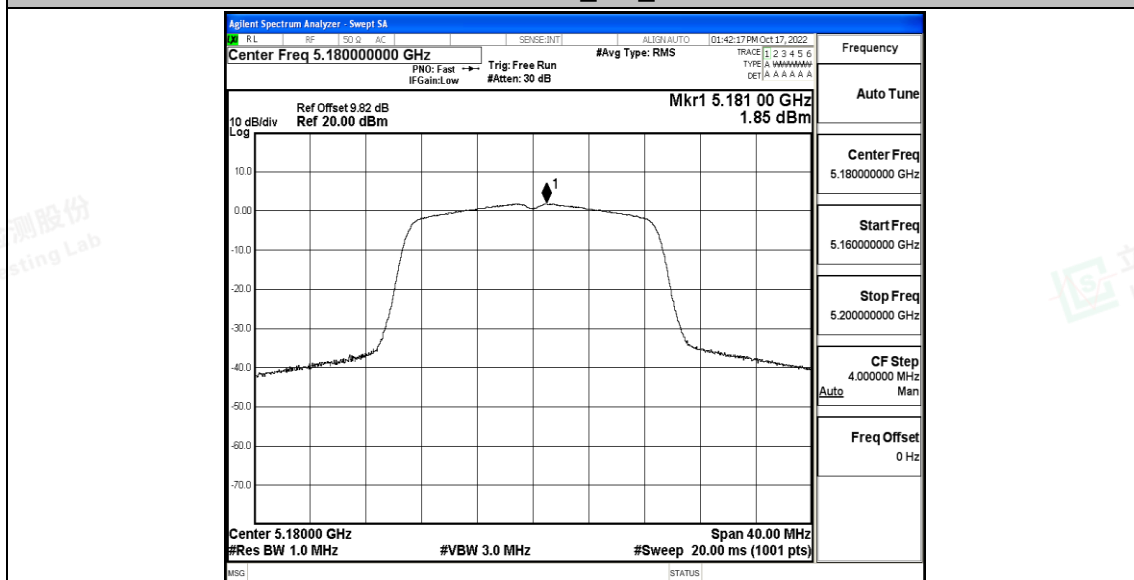


11A_Ant_5240



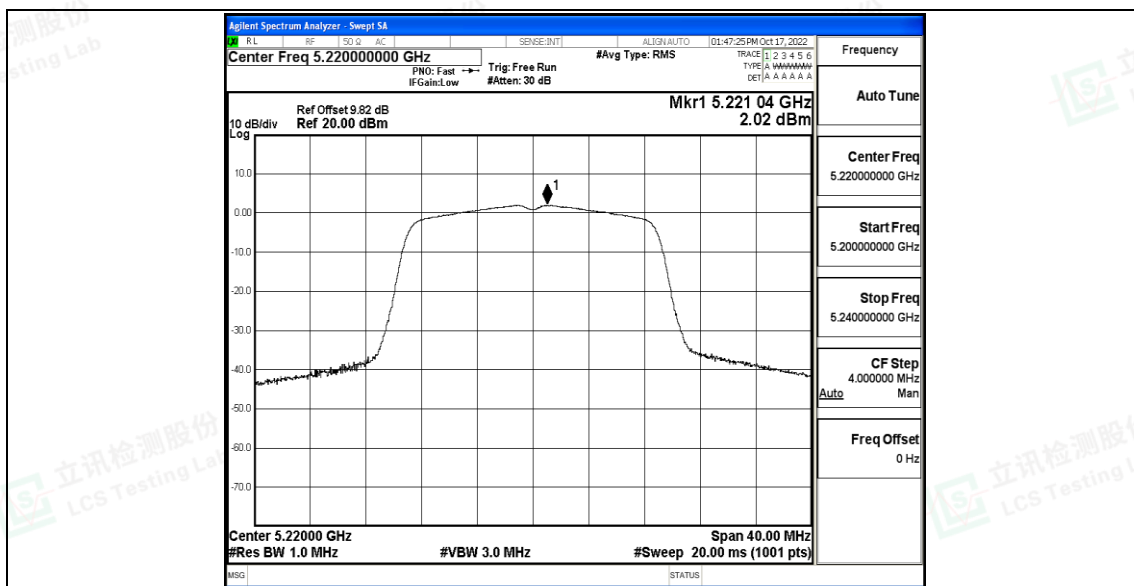


11N20SISO_Ant_5180

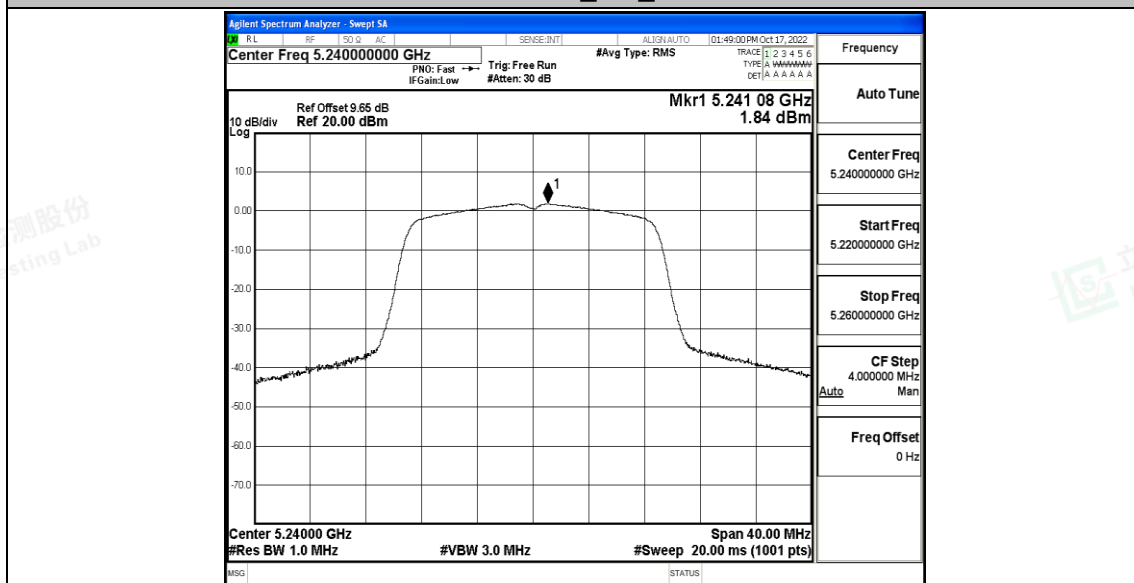


11N20SISO_Ant_5220



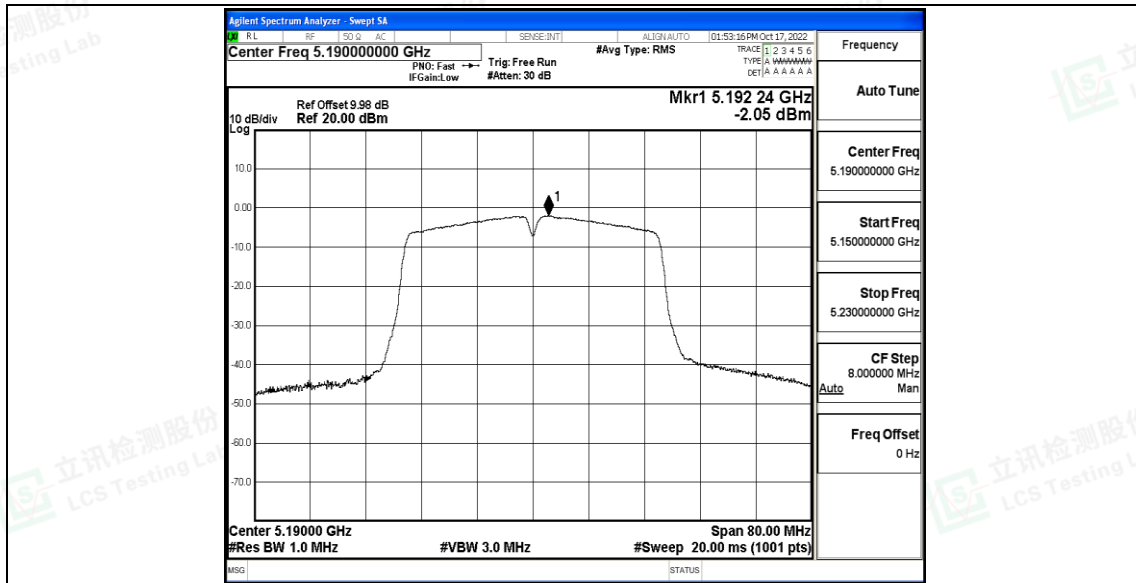


11N20SISO_Ant_5240

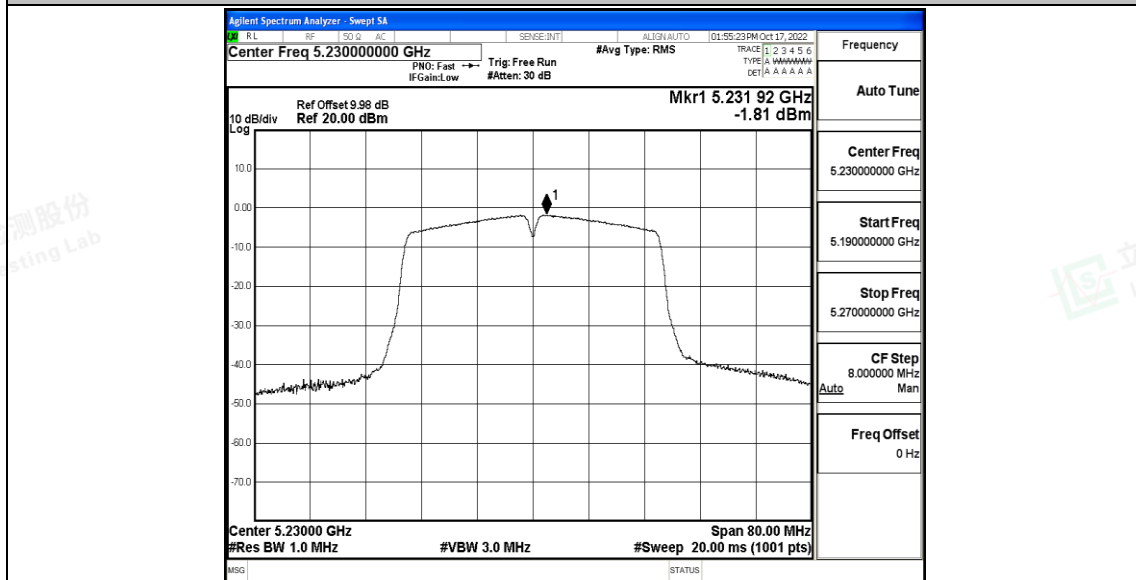


11N40SISO_Ant_5190



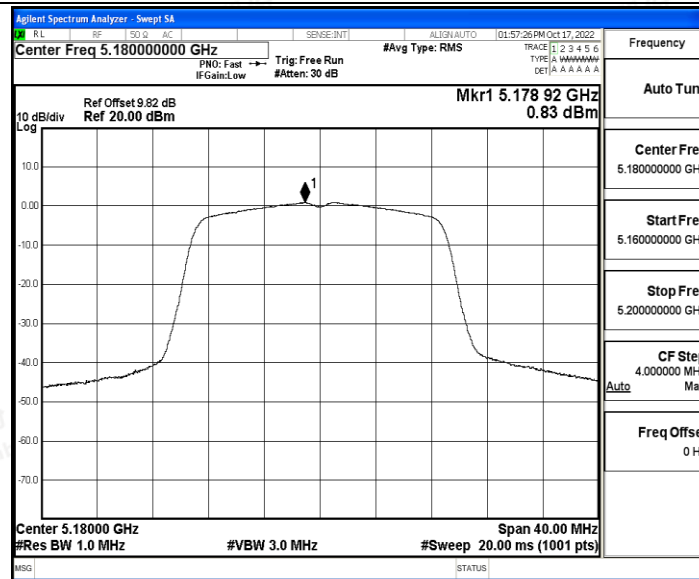


11N40SISO_Ant_5230

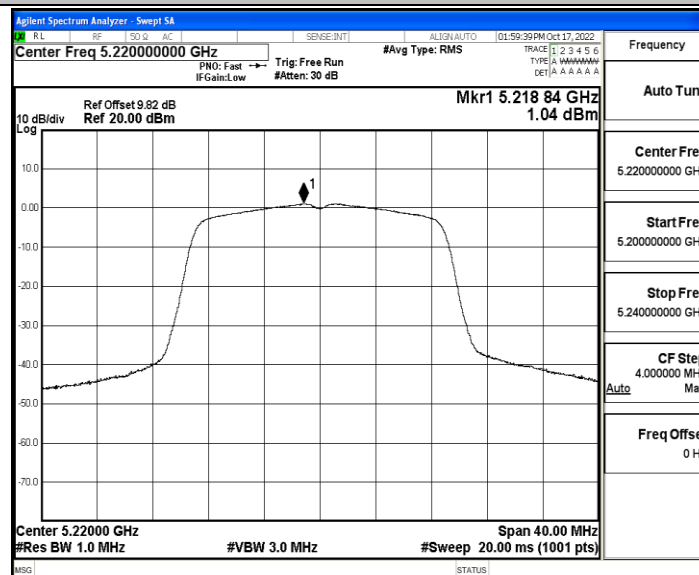


11AC20SISO_Ant_5180



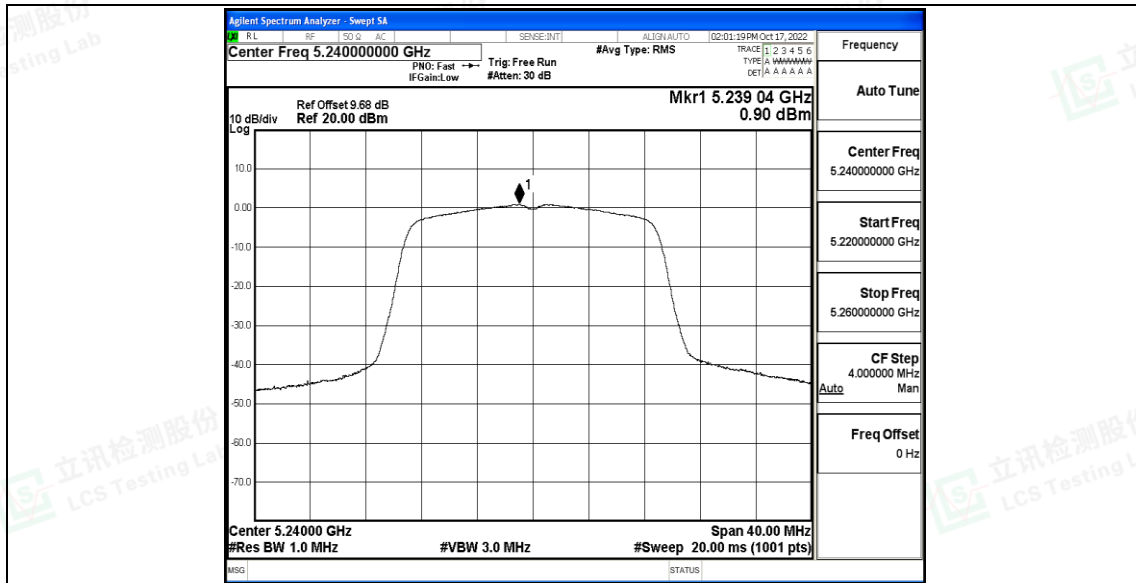


11AC20SISO_Ant_5220

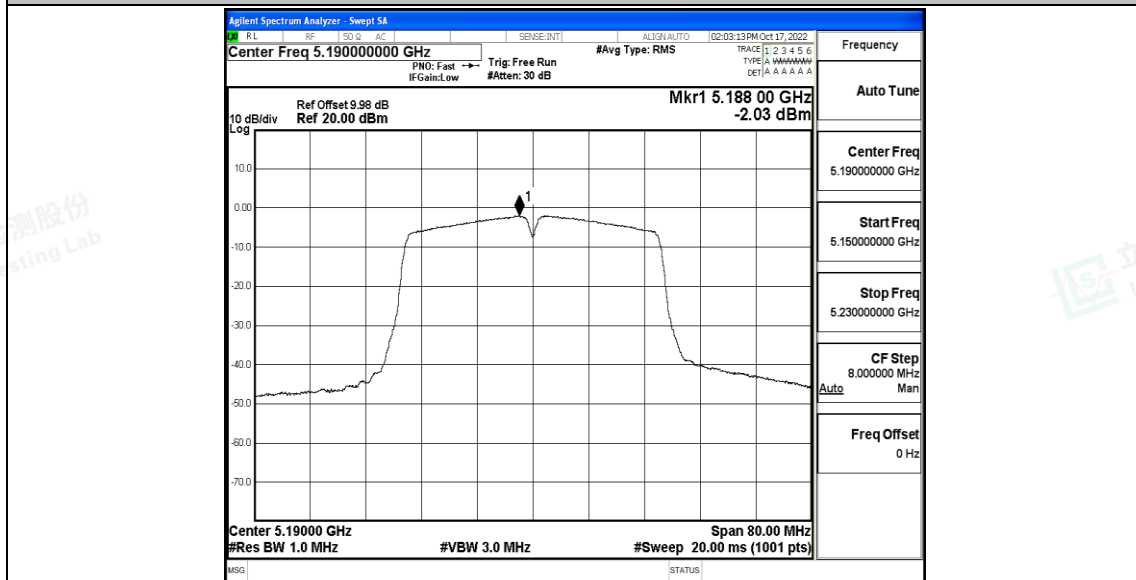


11AC20SISO_Ant_5240



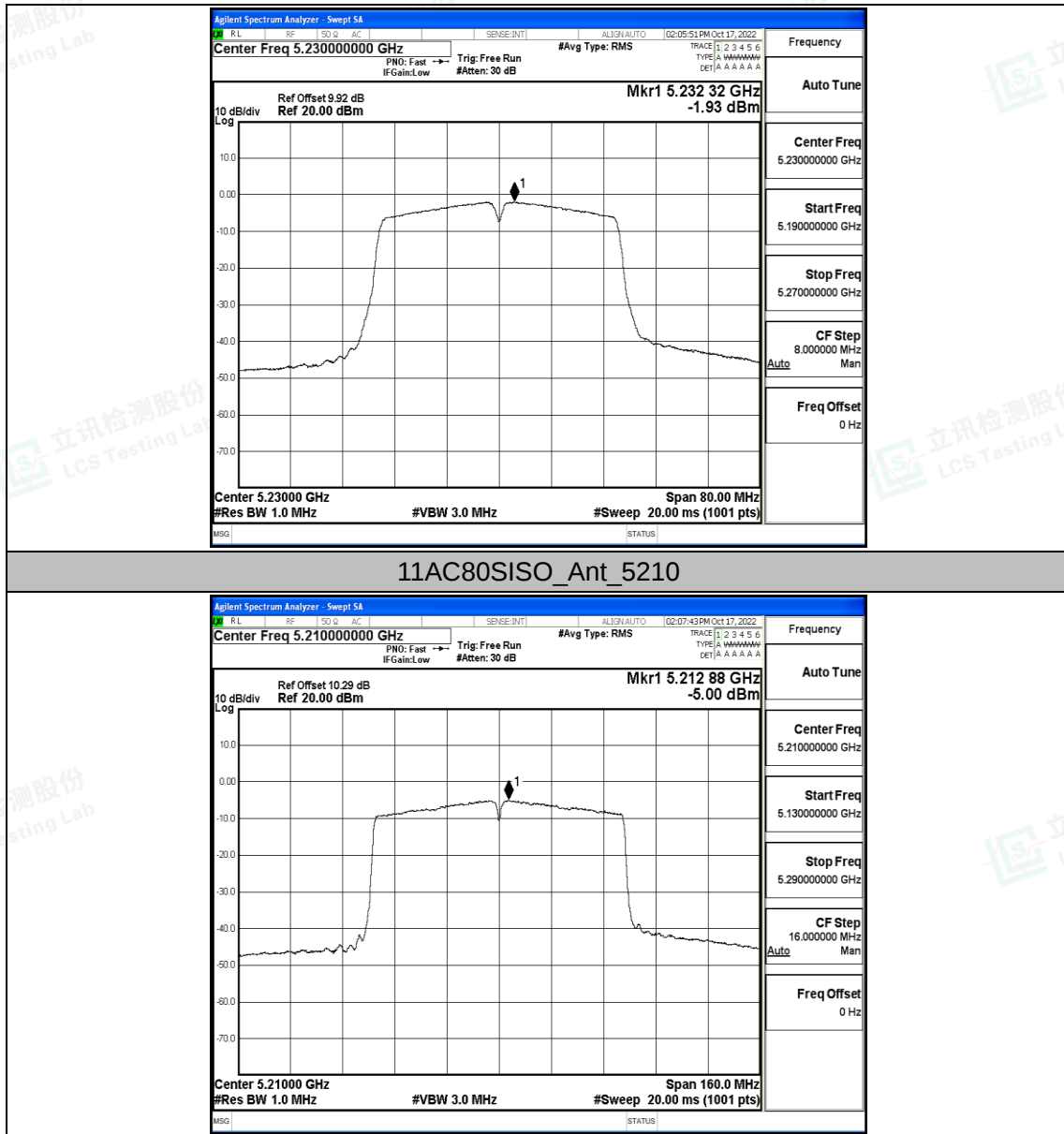


11AC40SISO_Ant_5190



11AC40SISO_Ant_5230







D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant	Low	5180	AV	4500.000	-48.93	≤-41.20	46.27	≤54	PASS
				AV	5148.900	-44.51	≤-41.20	50.69	≤54	PASS
				AV	5150.000	-44.52	≤-41.20	50.68	≤54	PASS
				Peak	4500.000	-43.18	≤-21.20	52.02	≤74	PASS
				Peak	5139.800	-37.61	≤-21.20	57.59	≤74	PASS
				Peak	5150.000	-42.55	≤-21.20	52.65	≤74	PASS
		High	5240	AV	5350.000	-47.44	≤-41.20	47.76	≤54	PASS
				AV	5352.960	-47.14	≤-41.20	48.06	≤54	PASS
				AV	5460.000	-47.75	≤-41.20	47.45	≤54	PASS
				Peak	5350.000	-45.8	≤-21.20	49.40	≤74	PASS
				Peak	5412.240	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	5460.000	-43.47	≤-21.20	51.73	≤74	PASS
11N20SIS O	Ant	Low	5180	AV	4500.000	-48.64	≤-41.20	46.56	≤54	PASS
				AV	5149.600	-42.64	≤-41.20	52.56	≤54	PASS
				AV	5150.000	-42.65	≤-41.20	52.55	≤54	PASS
				Peak	4500.000	-45.18	≤-21.20	50.02	≤74	PASS
				Peak	5148.900	-37.02	≤-21.20	58.18	≤74	PASS
				Peak	5150.000	-36.14	≤-21.20	59.06	≤74	PASS
		High	5240	AV	5350.000	-47.14	≤-41.20	48.06	≤54	PASS
				AV	5350.800	-47.12	≤-41.20	48.08	≤54	PASS
				AV	5460.000	-47.65	≤-41.20	47.55	≤54	PASS
				Peak	5350.000	-43.71	≤-21.20	51.49	≤74	PASS
				Peak	5361.840	-39.44	≤-21.20	55.76	≤74	PASS
				Peak	5460.000	-41.52	≤-21.20	53.68	≤74	PASS
11N40SIS O	Ant	Low	5190	AV	4500.000	-48.65	≤-41.20	46.55	≤54	PASS
				AV	5148.900	-43.42	≤-41.20	51.78	≤54	PASS
				AV	5150.000	-42.98	≤-41.20	52.22	≤54	PASS
				Peak	4500.000	-45.15	≤-21.20	50.05	≤74	PASS
				Peak	4952.200	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	5150.000	-41.38	≤-21.20	53.82	≤74	PASS
		High	5230	AV	5350.000	-46.98	≤-41.20	48.22	≤54	PASS
				AV	5354.700	-46.76	≤-41.20	48.44	≤54	PASS
				AV	5460.000	-47.16	≤-41.20	48.04	≤54	PASS
				Peak	5350.000	-39.81	≤-21.20	55.39	≤74	PASS
				Peak	5452.980	-38.3	≤-21.20	56.90	≤74	PASS



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11AC20SI SO	Ant	Low	5180	Peak	5460.000	-43.15	≤-21.20	52.05	≤74	PASS
				AV	4500.000	-48.78	≤-41.20	46.42	≤54	PASS
				AV	5149.600	-44.95	≤-41.20	50.25	≤54	PASS
				AV	5150.000	-44.72	≤-41.20	50.48	≤54	PASS
				Peak	4500.000	-44.7	≤-21.20	50.50	≤74	PASS
				Peak	4924.200	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	5150.000	-41.9	≤-21.20	53.30	≤74	PASS
		High	5240	AV	5350.000	-47.32	≤-41.20	47.88	≤54	PASS
				AV	5354.400	-47	≤-41.20	48.20	≤54	PASS
				AV	5460.000	-47.57	≤-41.20	47.63	≤54	PASS
				Peak	5350.000	-44.86	≤-21.20	50.34	≤74	PASS
				Peak	5411.760	-38.01	≤-21.20	57.19	≤74	PASS
				Peak	5460.000	-41.78	≤-21.20	53.42	≤74	PASS
11AC40SI SO	Ant	Low	5190	AV	4500.000	-48.63	≤-41.20	46.57	≤54	PASS
				AV	5149.600	-44.49	≤-41.20	50.71	≤54	PASS
				AV	5150.000	-44.56	≤-41.20	50.64	≤54	PASS
				Peak	4500.000	-45.04	≤-21.20	50.16	≤74	PASS
				Peak	5140.500	-37.02	≤-21.20	58.18	≤74	PASS
				Peak	5150.000	-42.64	≤-21.20	52.56	≤74	PASS
		High	5230	AV	5350.000	-47.04	≤-41.20	48.16	≤54	PASS
				AV	5383.560	-46.57	≤-41.20	48.63	≤54	PASS
				AV	5460.000	-47.61	≤-41.20	47.59	≤54	PASS
				Peak	5350.000	-41.81	≤-21.20	53.39	≤74	PASS
				Peak	5364.840	-38.42	≤-21.20	56.78	≤74	PASS
				Peak	5460.000	-41.1	≤-21.20	54.10	≤74	PASS
11AC80SI SO	Ant	Low	5210	AV	4500.000	-48.56	≤-41.20	46.64	≤54	PASS
				AV	5144.250	-42.19	≤-41.20	53.01	≤54	PASS
				AV	5150.000	-42.91	≤-41.20	52.29	≤54	PASS
				Peak	4500.000	-44.69	≤-21.20	50.51	≤74	PASS
				Peak	5133.000	-36.23	≤-21.20	58.97	≤74	PASS
				Peak	5150.000	-38.2	≤-21.20	57.00	≤74	PASS
		High	5210	AV	5350.000	-46.87	≤-41.20	48.33	≤54	PASS
				AV	5354.160	-46.28	≤-41.20	48.92	≤54	PASS
				AV	5460.000	-47.34	≤-41.20	47.86	≤54	PASS
				Peak	5350.000	-44.66	≤-21.20	50.54	≤74	PASS
				Peak	5353.320	-39.04	≤-21.20	56.16	≤74	PASS
				Peak	5460.000	-45.97	≤-21.20	49.23	≤74	PASS



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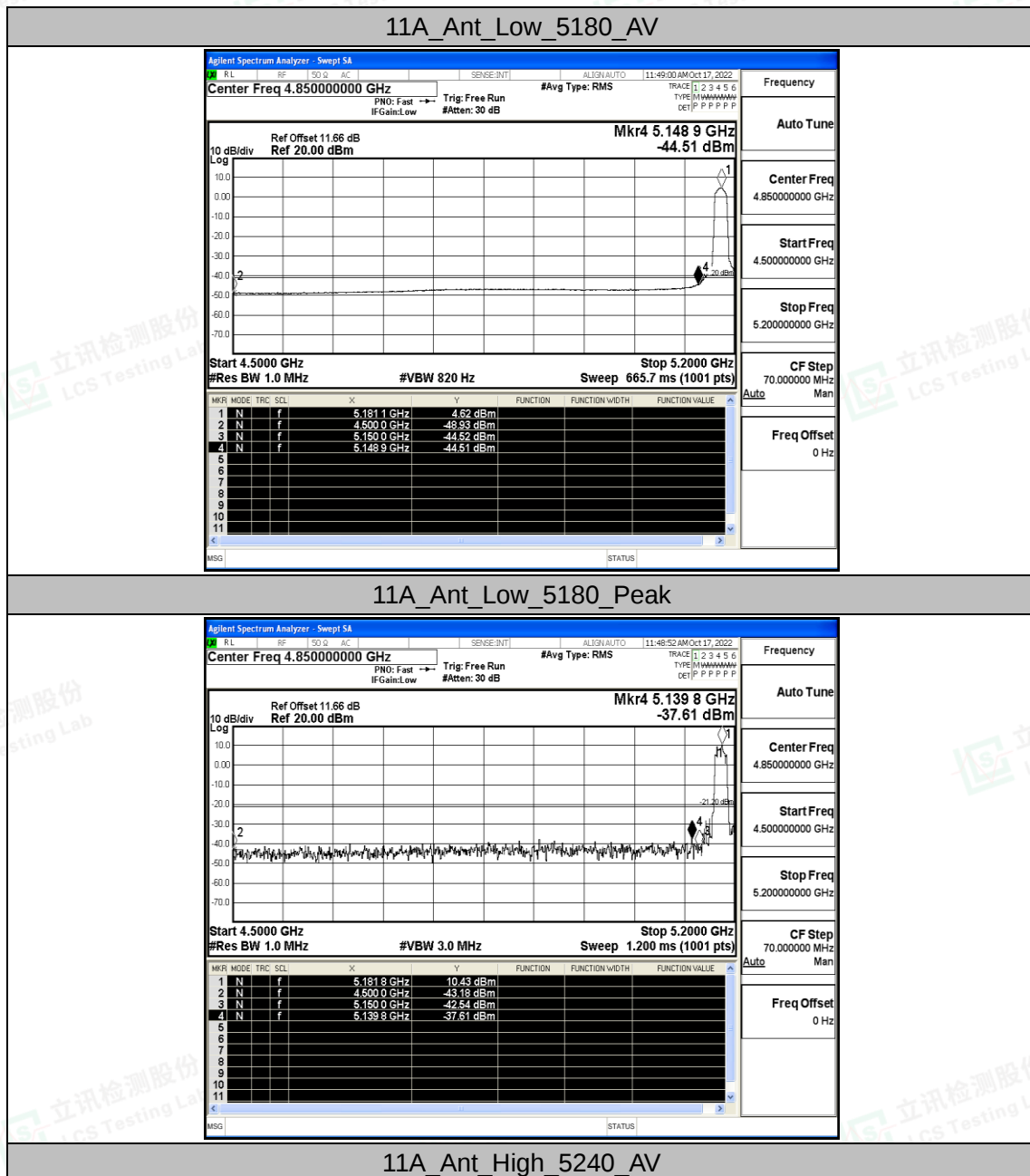
Note:

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

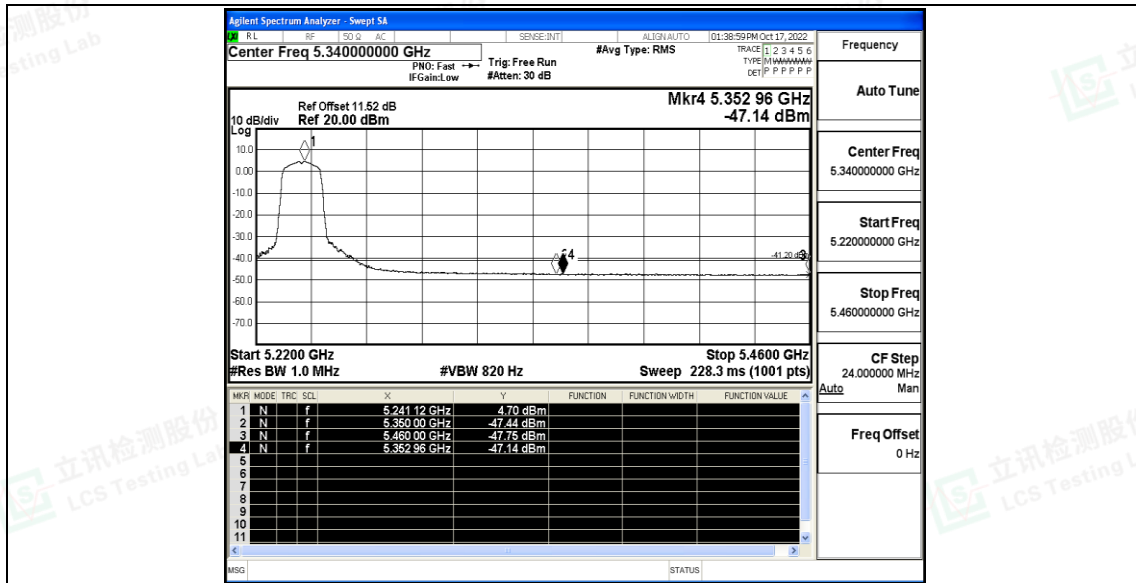


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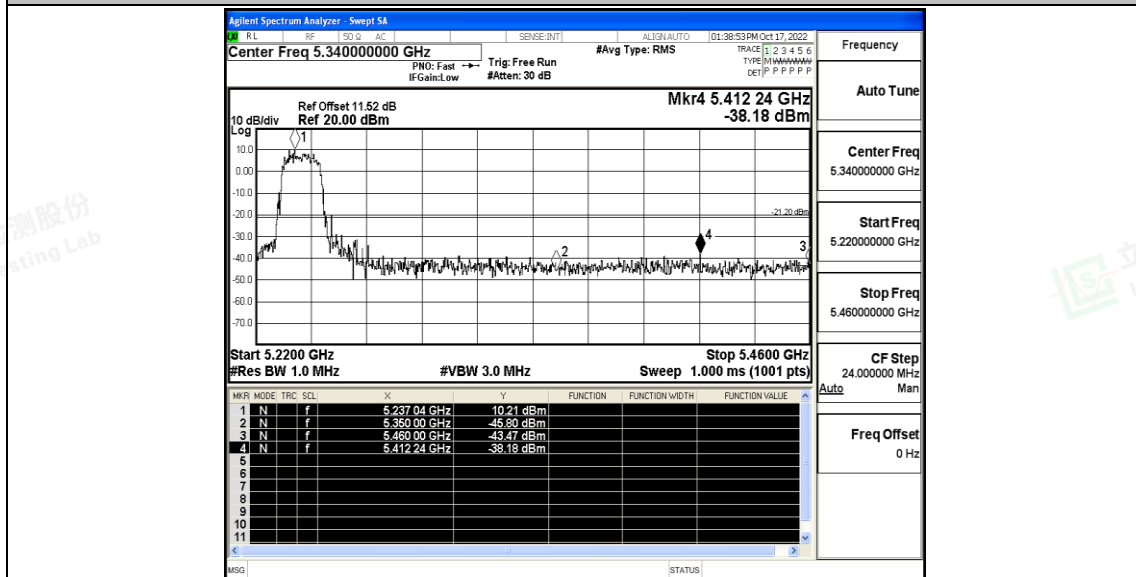
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11A_Ant_High_5240_Peak



11N20SISO_Ant_Low_5180_AV

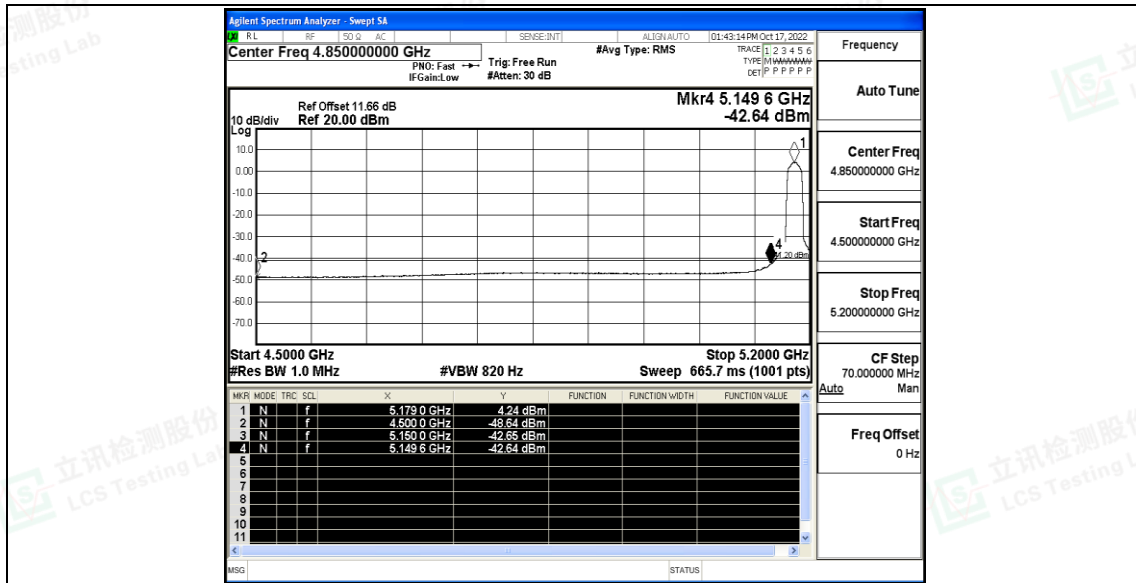


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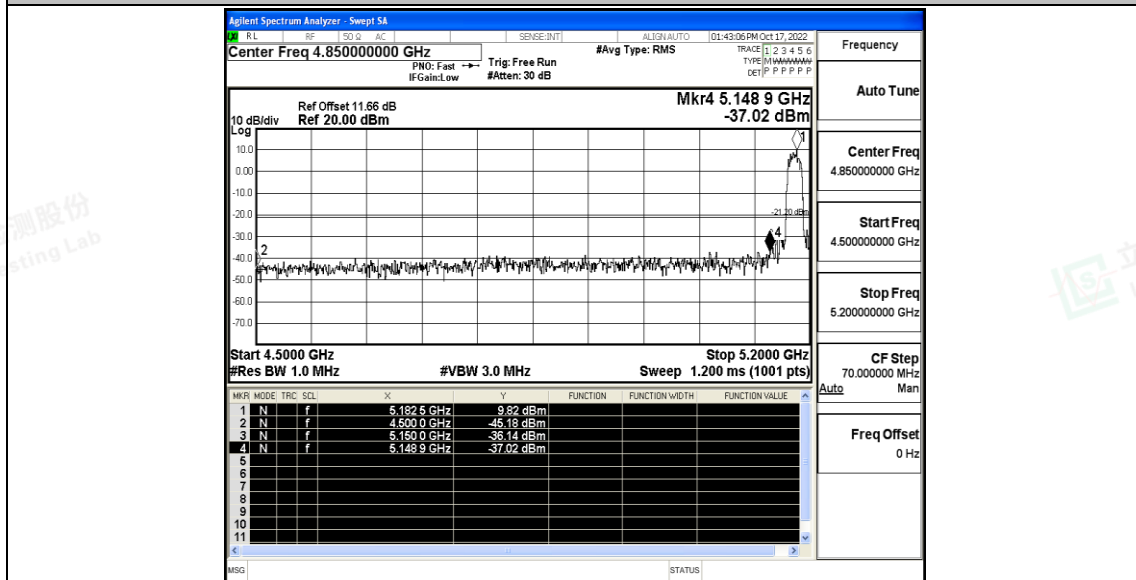
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11N20SISO_Ant_Low_5180_Peak



11N20SISO_Ant_High_5240_AV

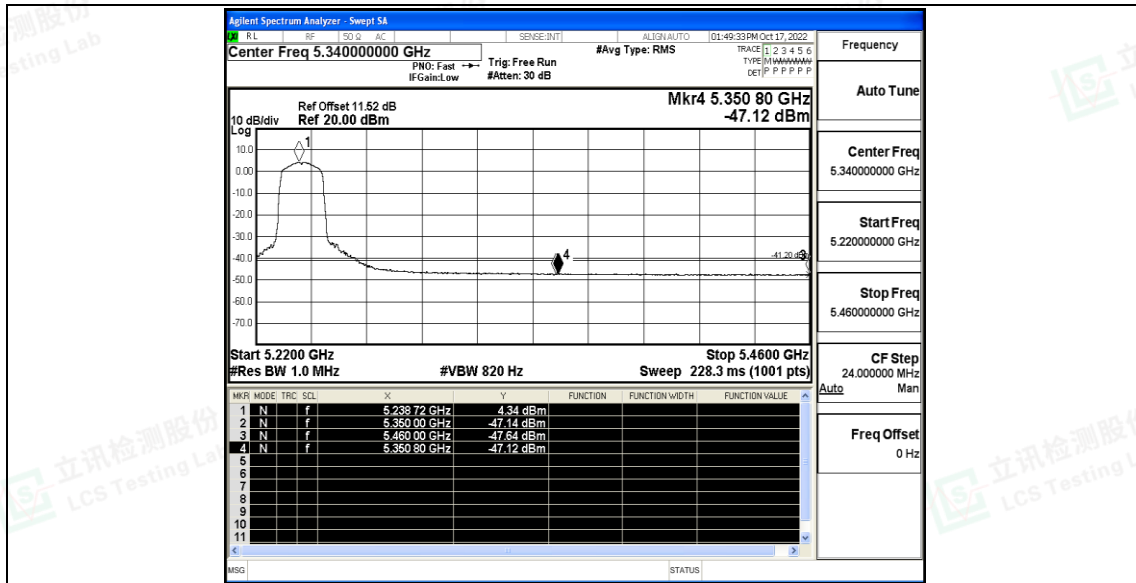


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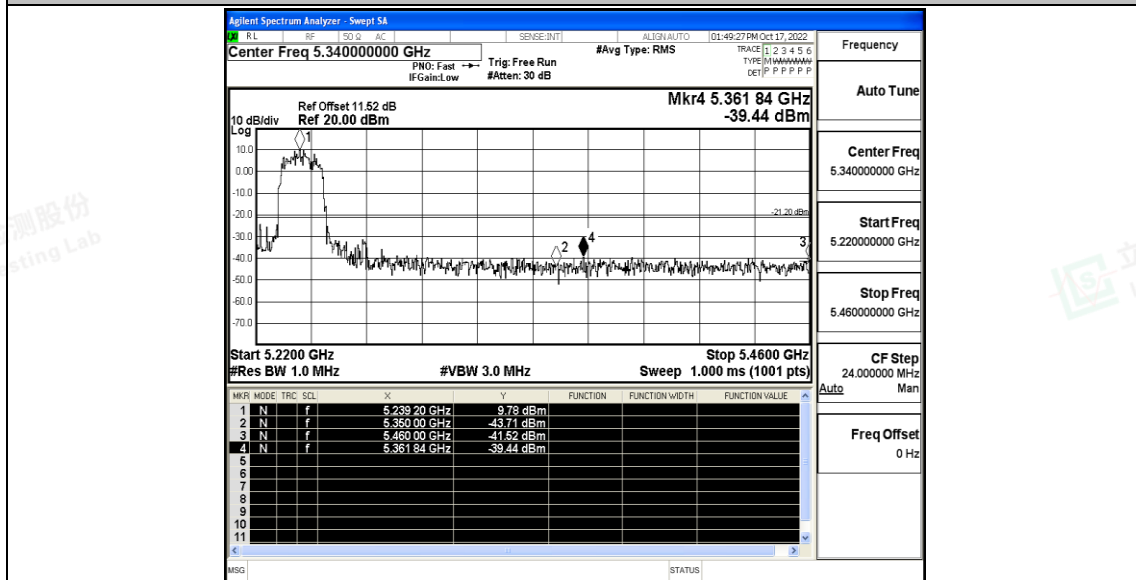
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11N20SISO_Ant_High_5240_Peak



11N40SISO_Ant_Low_5190_AV

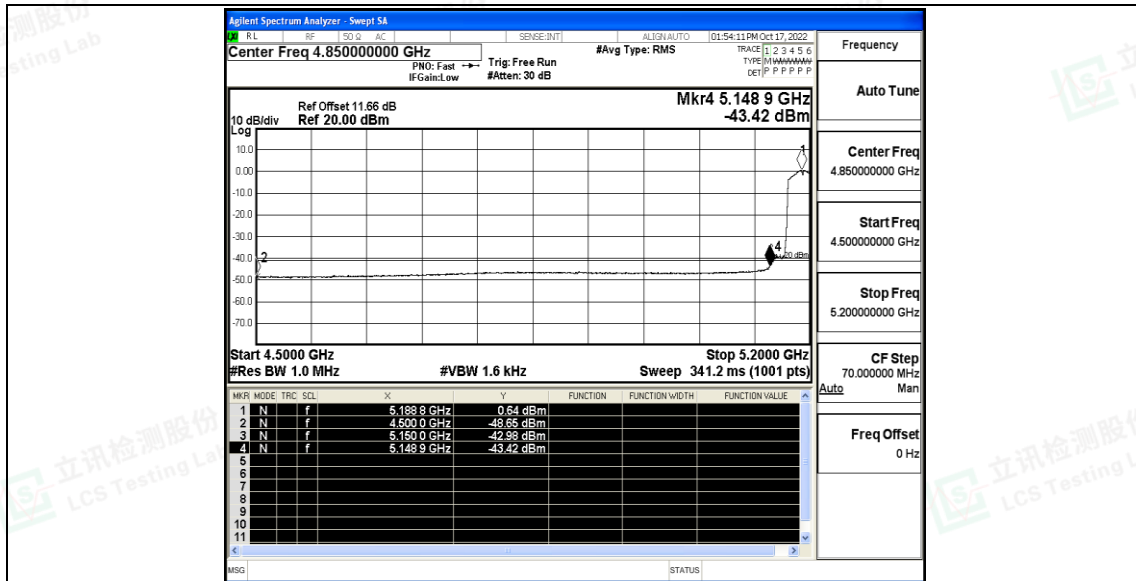


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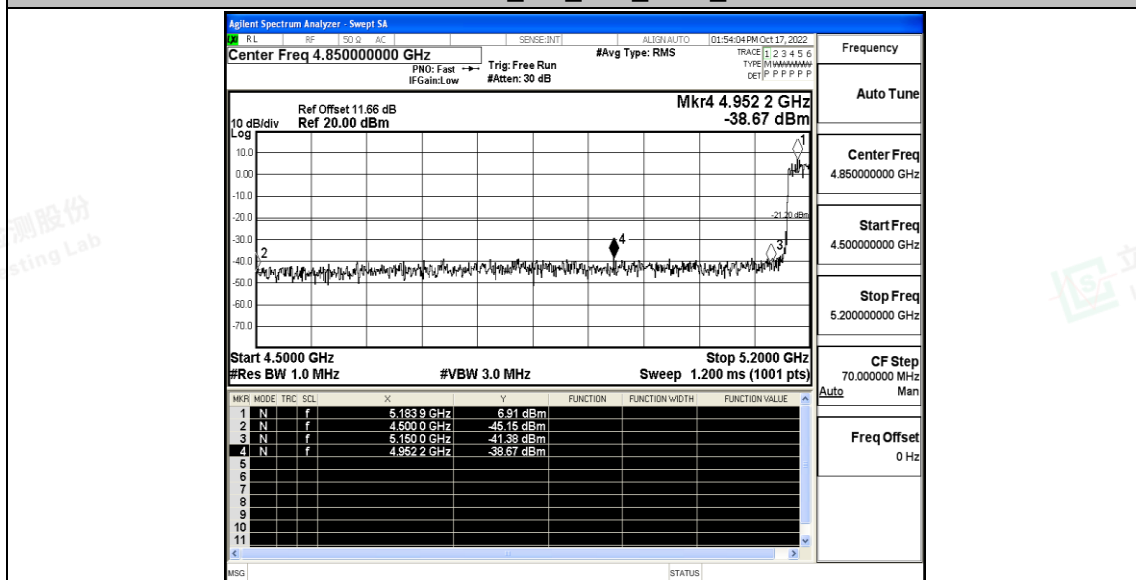
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11N40SISO_Ant_Low_5190_Peak



11N40SISO_Ant_High_5230_AV

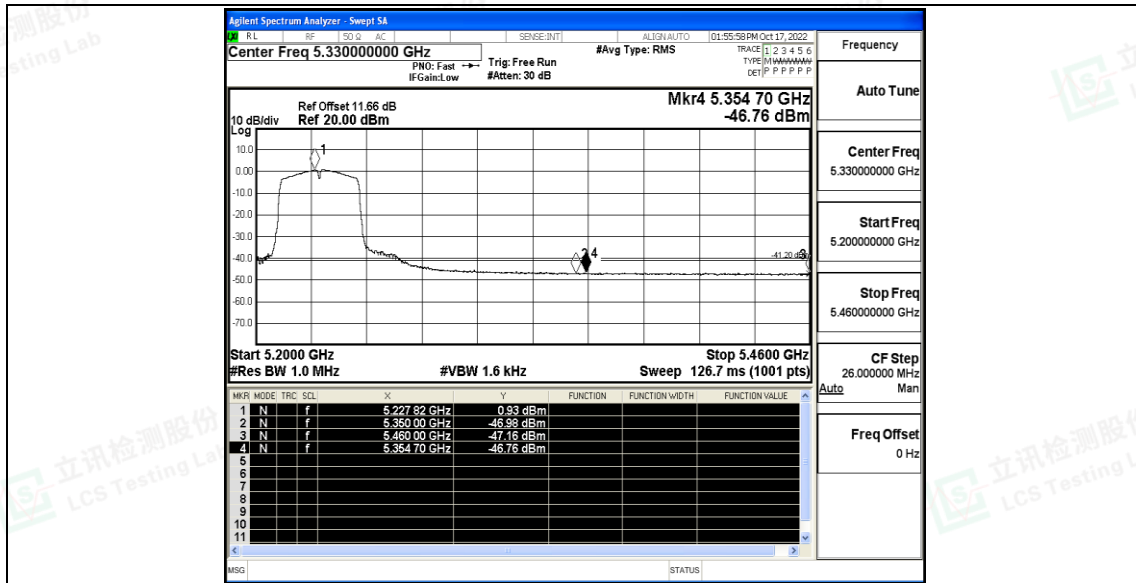


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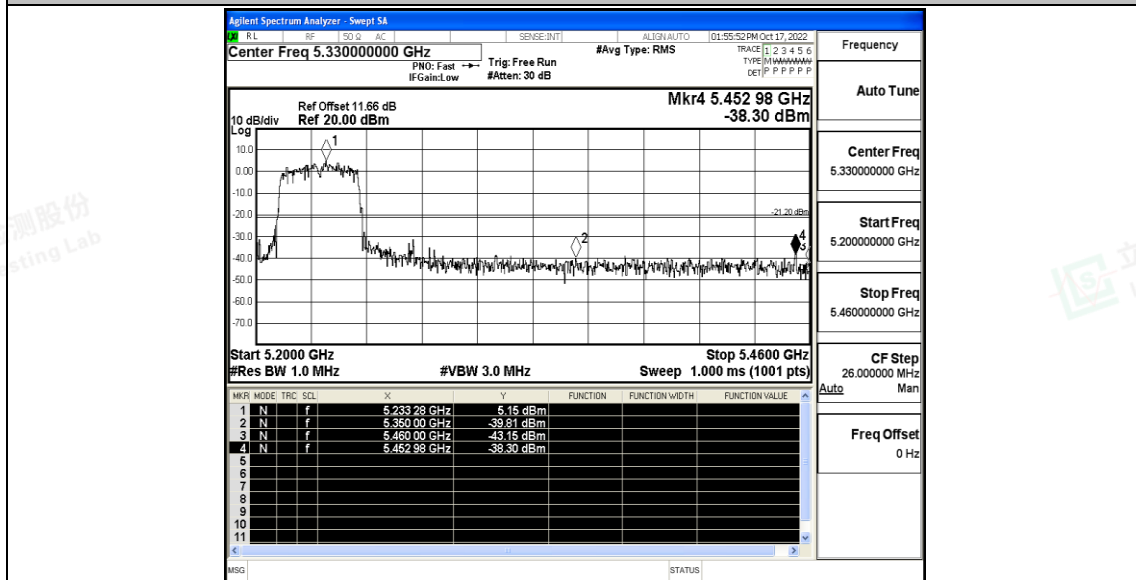
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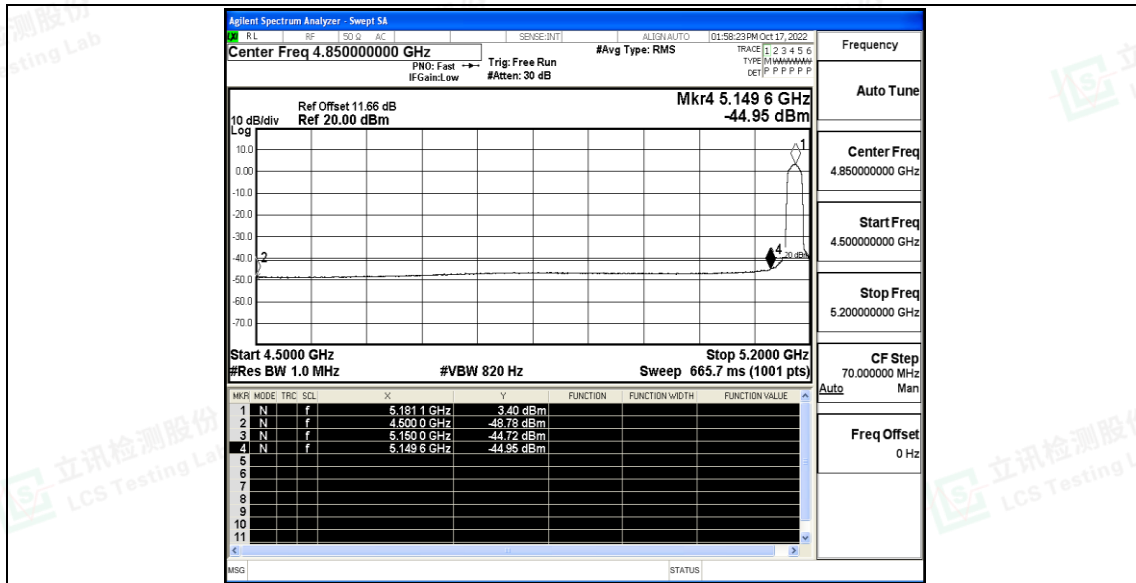


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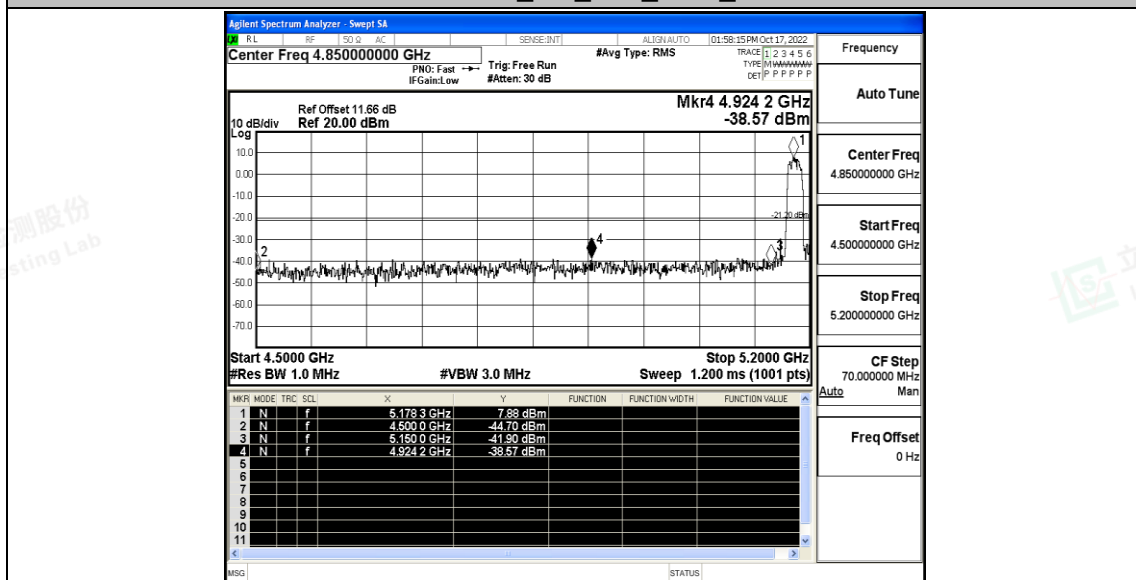


11AC20SISO_Ant_Low_5180_AV





11AC20SISO_Ant_Low_5180_Peak



11AC20SISO_Ant_High_5240_AV

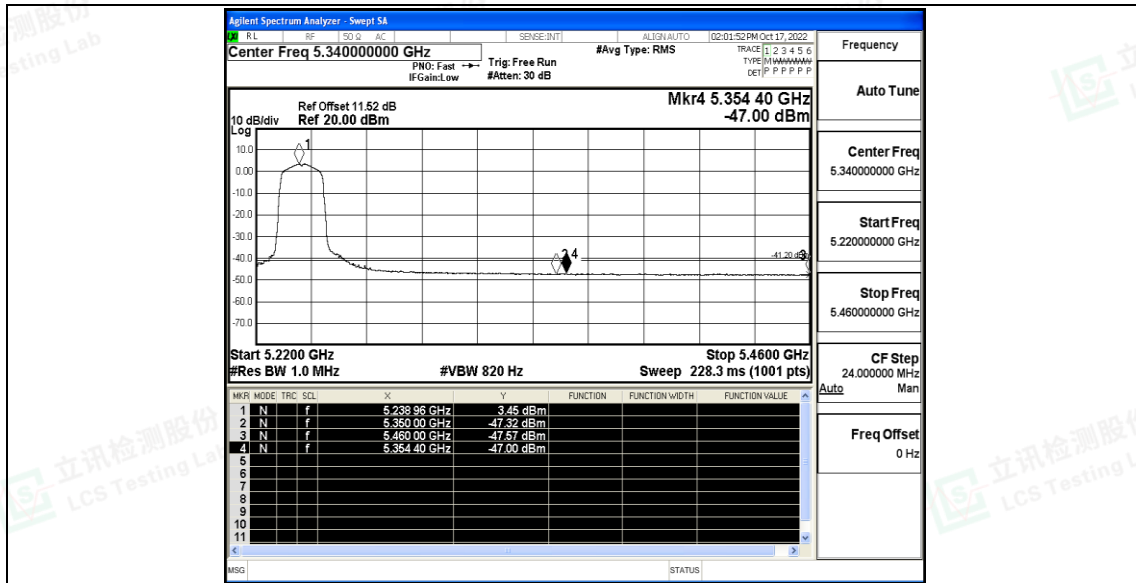


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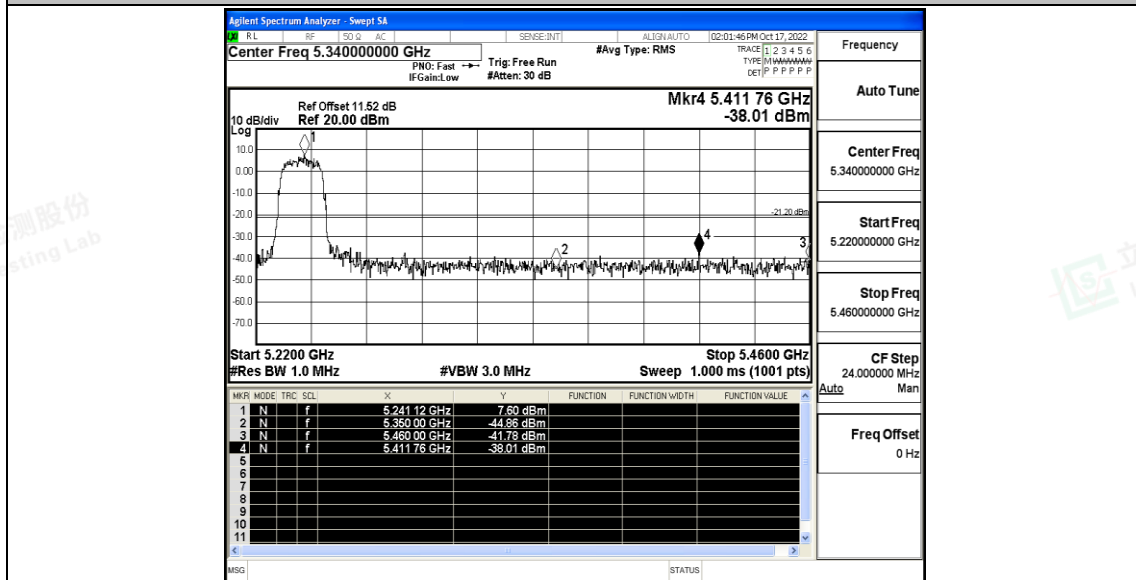
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11AC20SISO_Ant_High_5240_Peak



11AC40SISO_Ant_Low_5190_AV

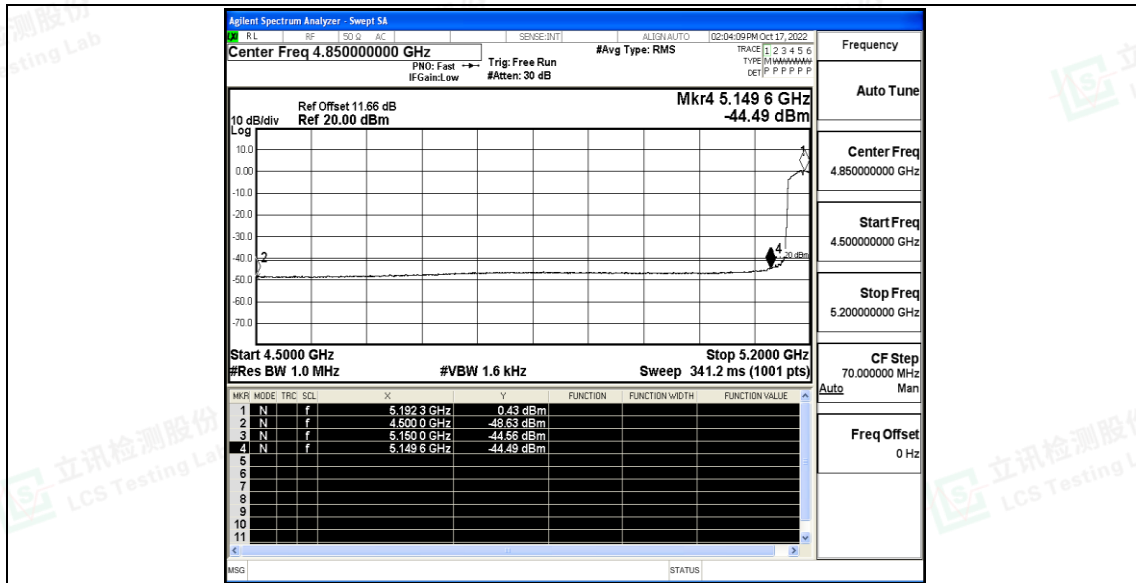


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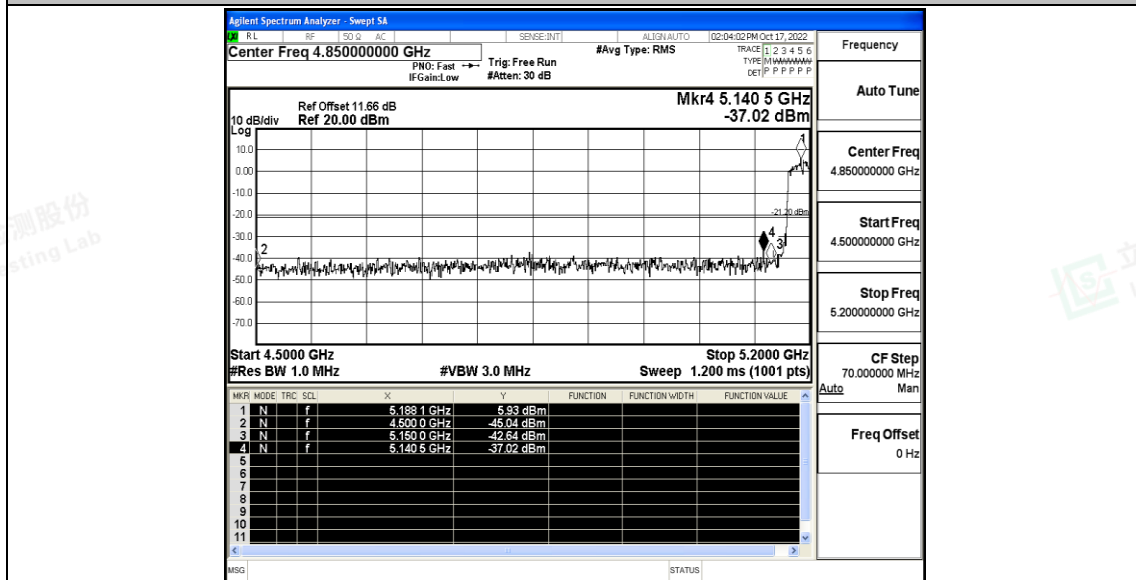
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11AC40SISO_Ant_Low_5190_Peak



11AC40SISO_Ant_High_5230_AV

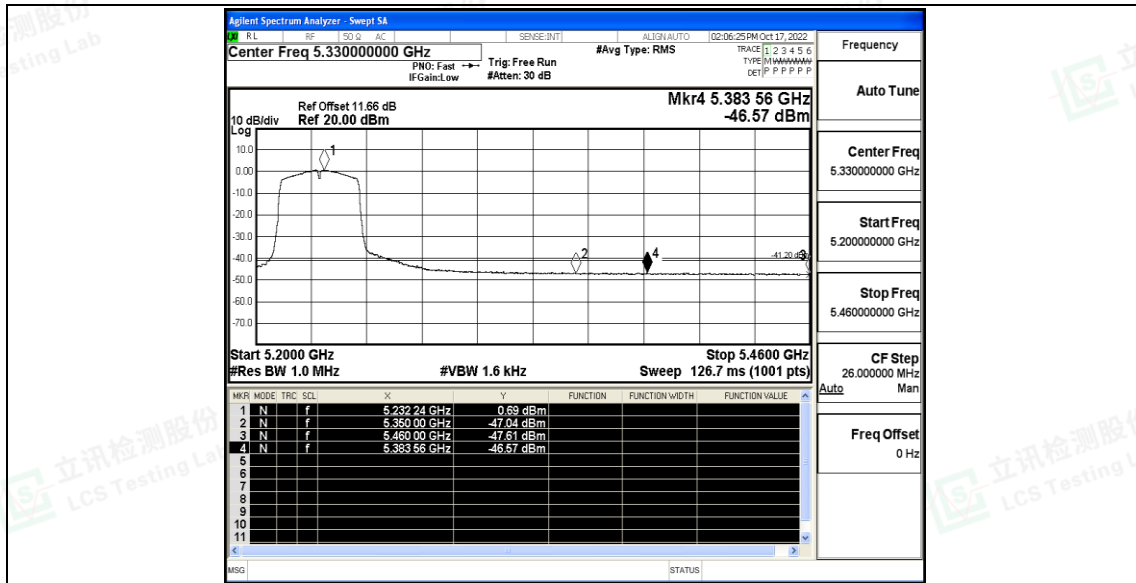


Shenzhen LCS Compliance Testing Laboratory Ltd.

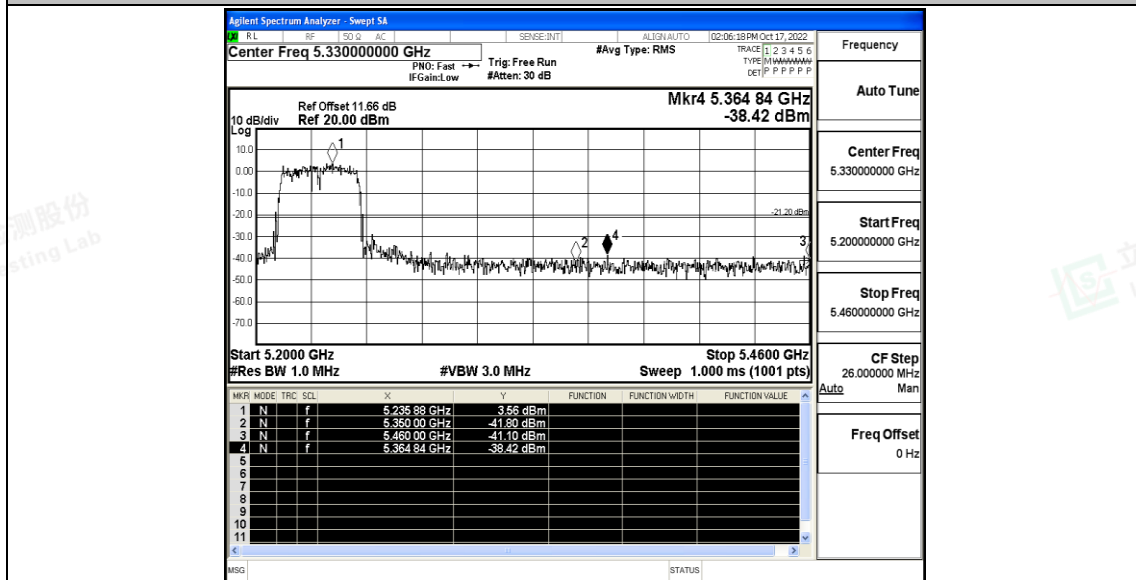
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant_High_5230_Peak



11AC80SISO_Ant_Low_5210_AV

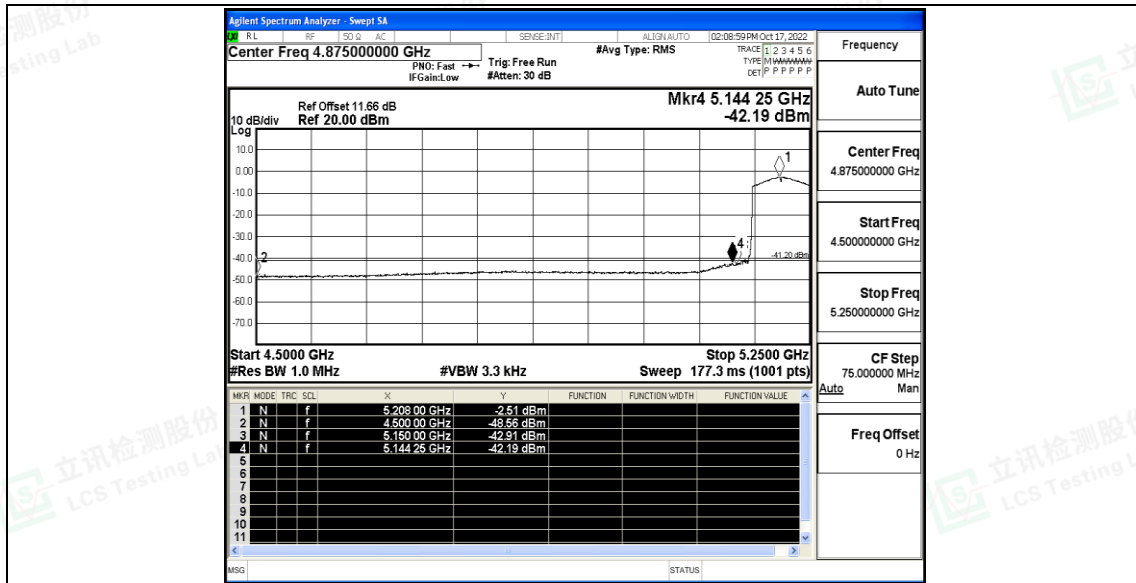


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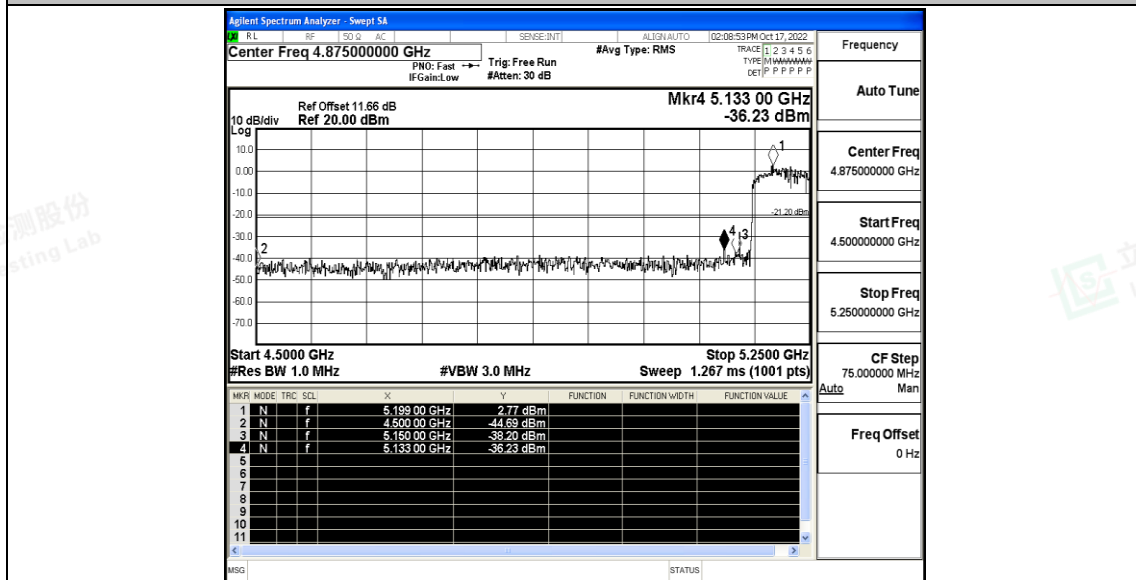
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant_Low_5210_Peak



11AC80SISO_Ant_High_5210_AV

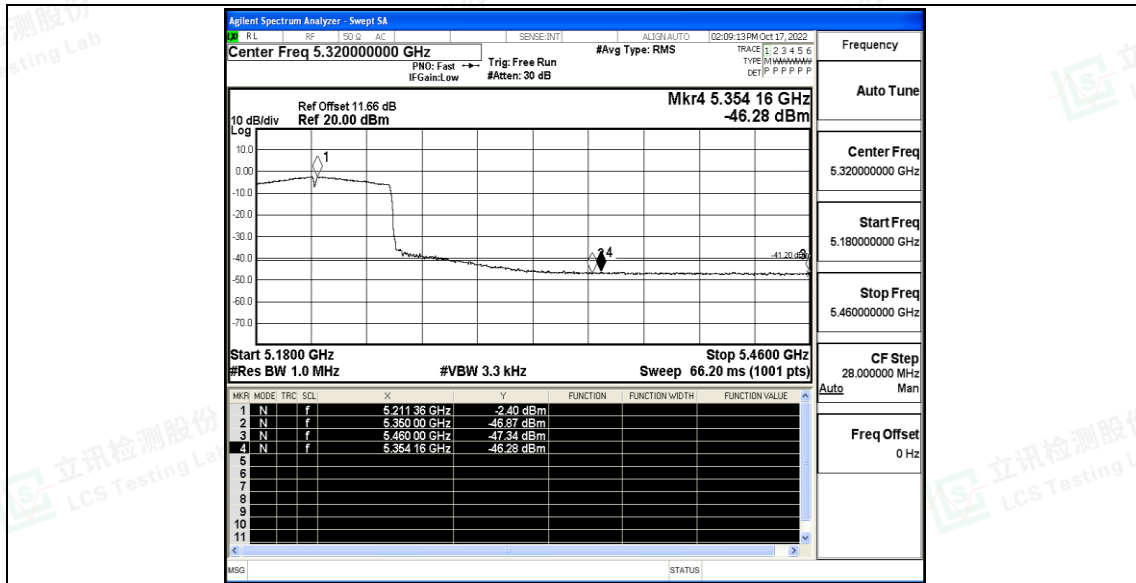


Shenzhen LCS Compliance Testing Laboratory Ltd.

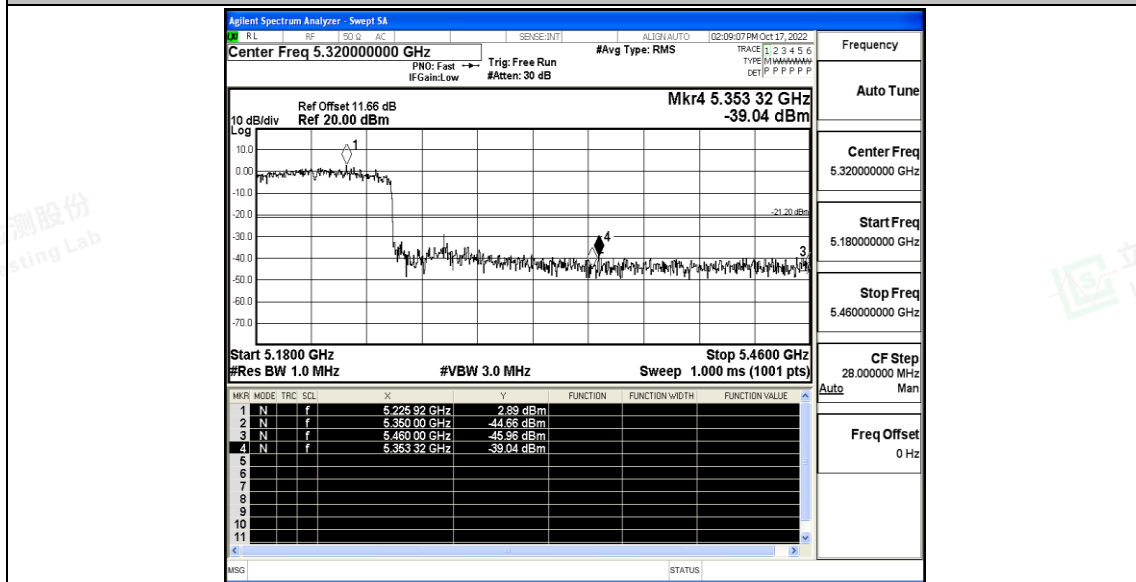
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11AC80SISO_Ant_High_5210_Peak



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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	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
		5220	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.831418	20	PASS
		5240	NV	NT	-40000.00	-7.633588	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40S ISO	Ant	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS
11AC80S ISO	Ant	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-15.355086	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS

Temperature								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	-40000.00	-7.722008	20	PASS
			NV	0	-40000.00	-7.722008	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	-40000.00	-7.722008	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5220	NV	-30	-40000.00	-7.662835	20	PASS
			NV	-20	-20000.00	-3.831418	20	PASS





			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.831418	20	PASS
			NV	10	-20000.00	-3.831418	20	PASS
			NV	20	-40000.00	-7.662835	20	PASS
			NV	30	-20000.00	-3.831418	20	PASS
			NV	40	20000.00	3.831418	20	PASS
			NV	50	-20000.00	-3.831418	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	-40000.00	-7.633588	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.633588	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC40S ISO	Ant	5190	NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.707129	20	PASS
			NV	20	-40000.00	-7.707129	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-80000.00	-15.414258	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
		5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	-40000.00	-7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.648184	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	-40000.00	-7.648184	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC80S ISO	Ant	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	80000.00	16.065259	20	PASS
			NV	0	80000.00	15.355086	20	PASS
			NV	10	80000.00	15.355086	20	PASS
			NV	20	-80000.00	-15.355086	20	PASS



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			NV	30	0.00	0.000000	20	PASS
			NV	40	-80000.00	-15.355086	20	PASS
			NV	50	0.00	0.000000	20	PASS





D.6 Duty Cycle

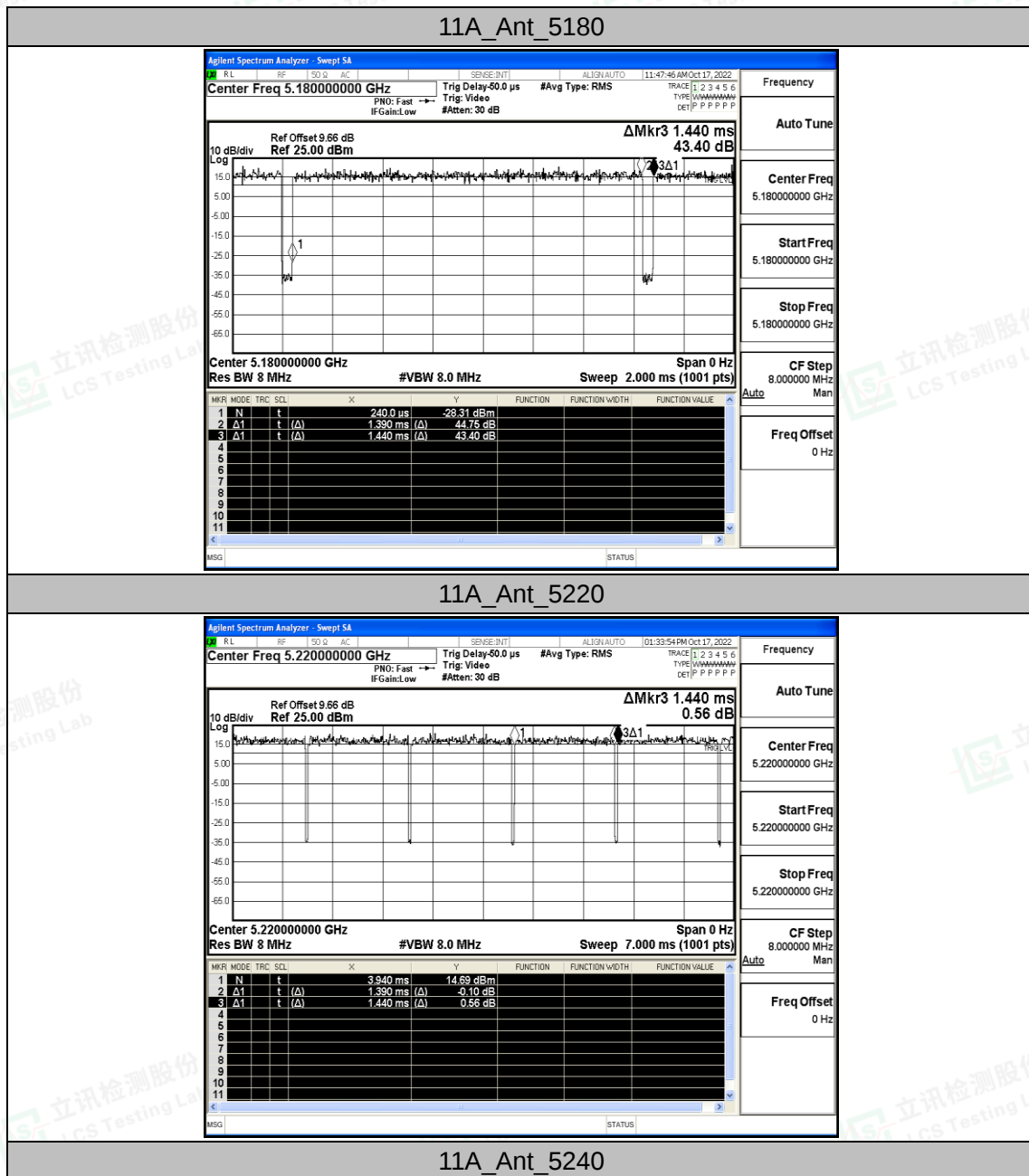
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11A	Ant	5180	1.39	1.44	96.53	0.15
		5220	1.39	1.44	96.53	0.15
		5240	1.39	1.44	96.53	0.15
11N20SISO	Ant	5180	1.30	1.35	96.30	0.16
		5220	1.30	1.35	96.30	0.16
		5240	1.30	1.34	97.01	0.13
11N40SISO	Ant	5190	0.65	0.70	92.86	0.32
		5230	0.65	0.70	92.86	0.32
11AC20SISO	Ant	5180	1.31	1.36	96.32	0.16
		5220	1.31	1.36	96.32	0.16
		5240	1.31	1.36	96.32	0.16
11AC40SISO	Ant	5190	0.65	0.70	92.86	0.32
		5230	0.65	0.69	94.20	0.26
11AC80SISO	Ant	5210	0.32	0.37	86.49	0.63





Test Graphs

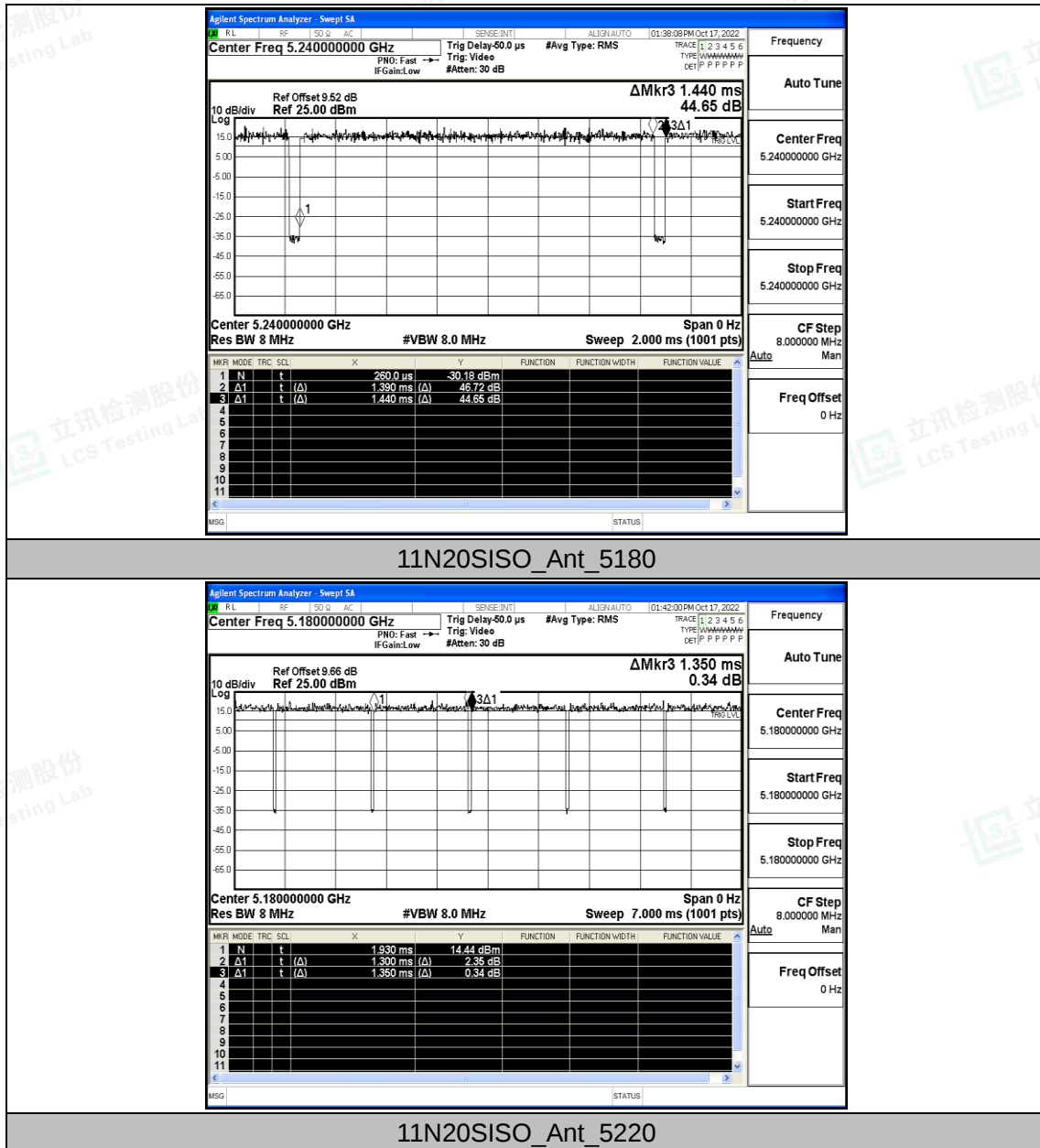


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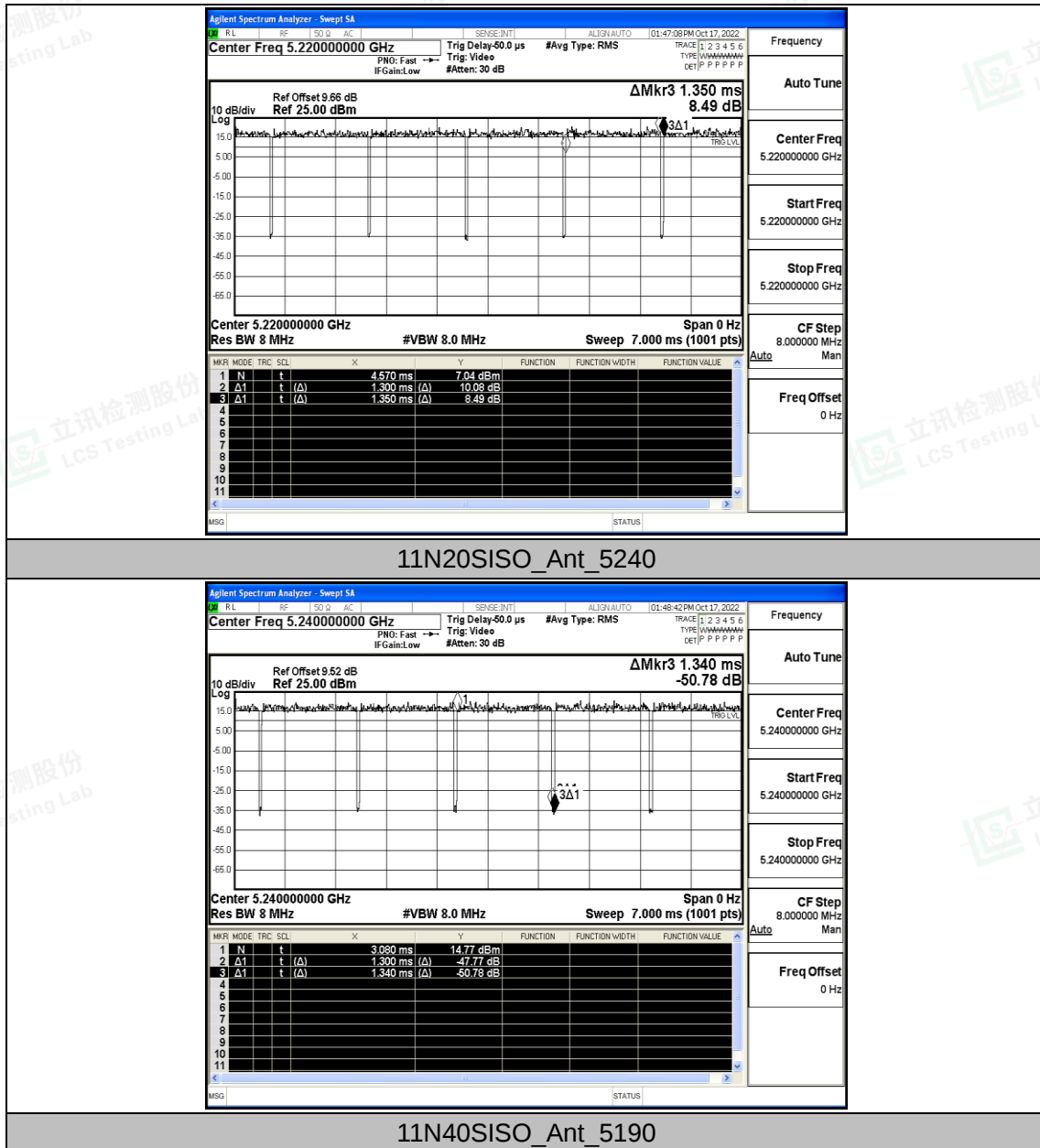


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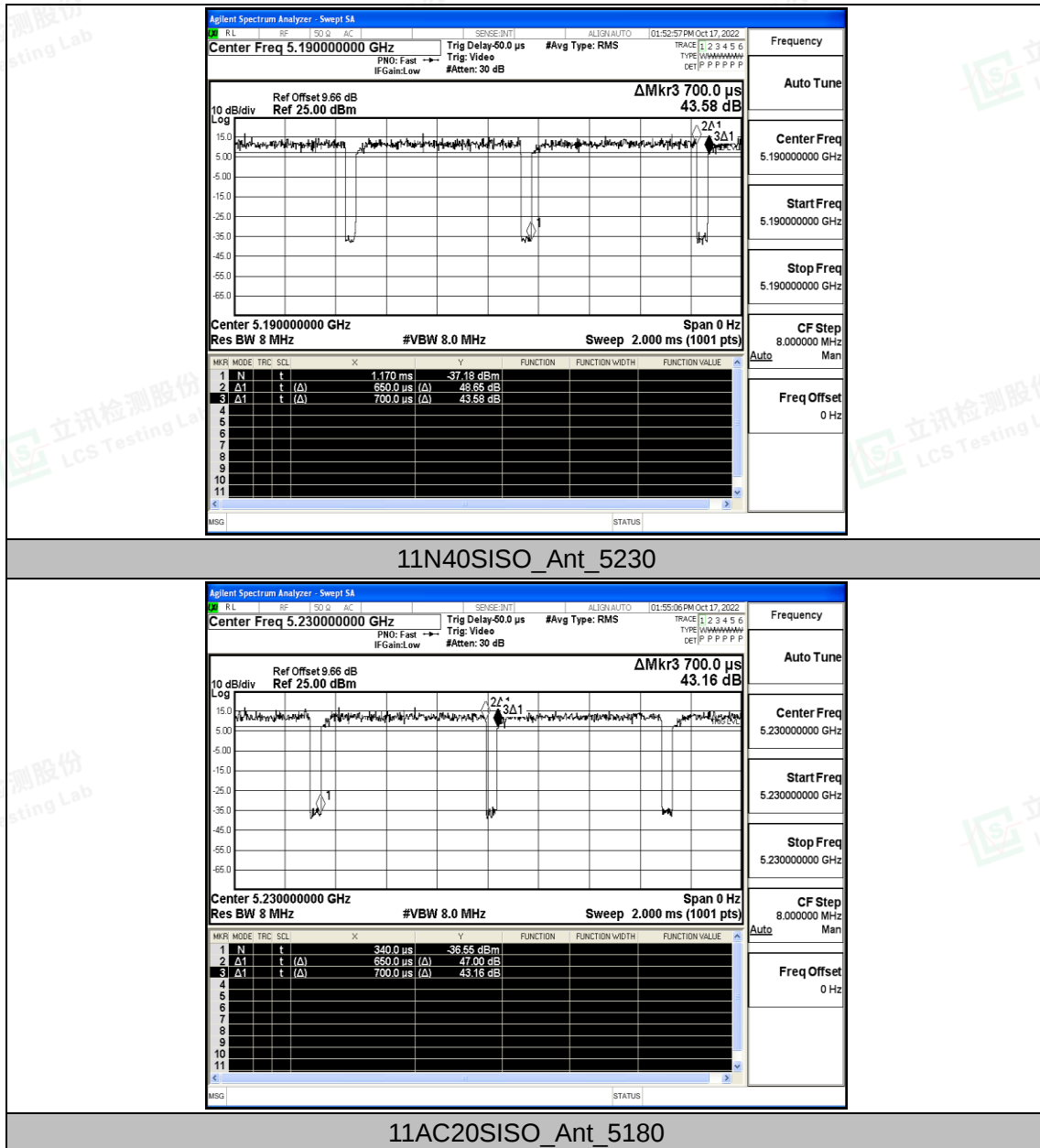


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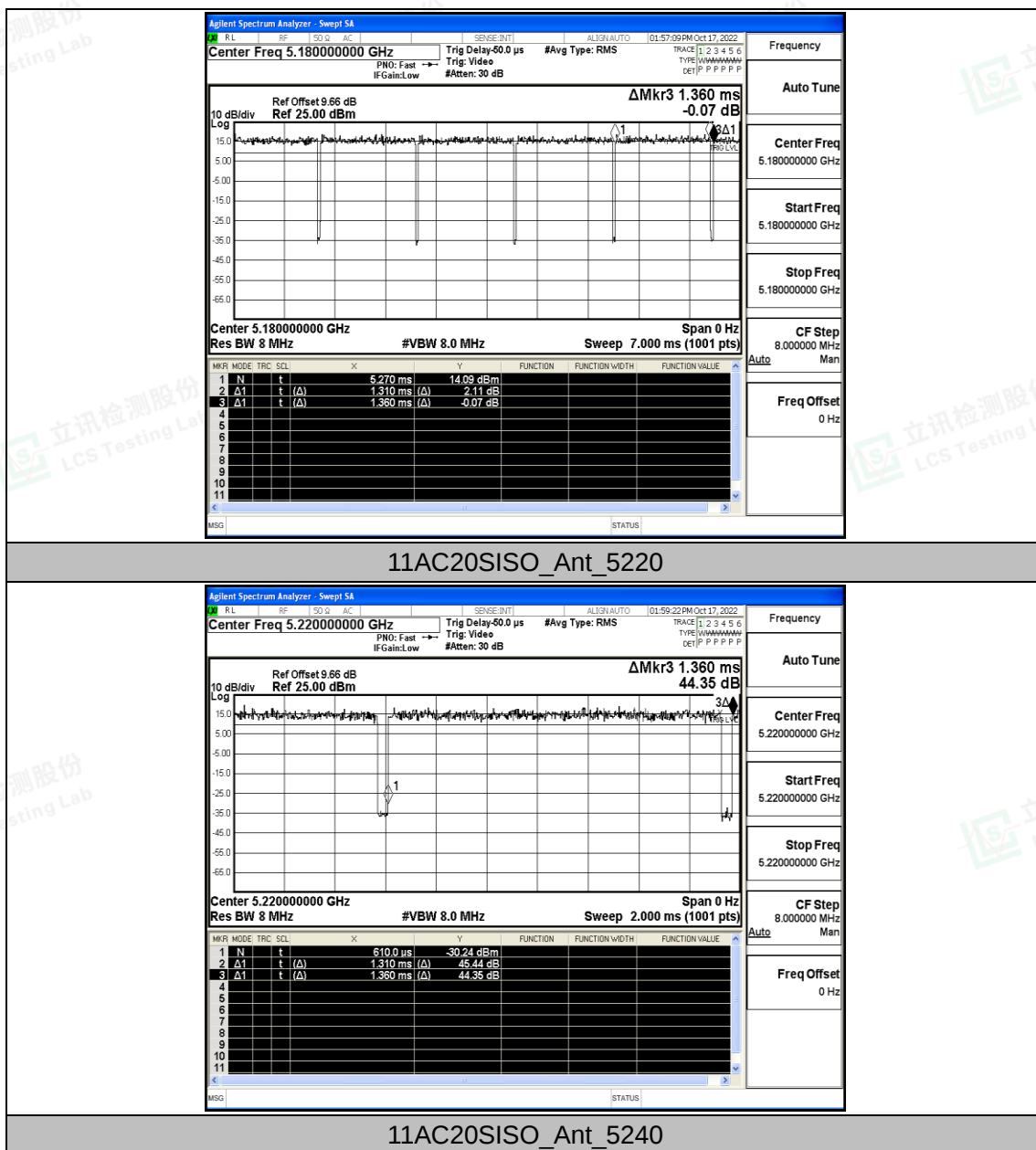


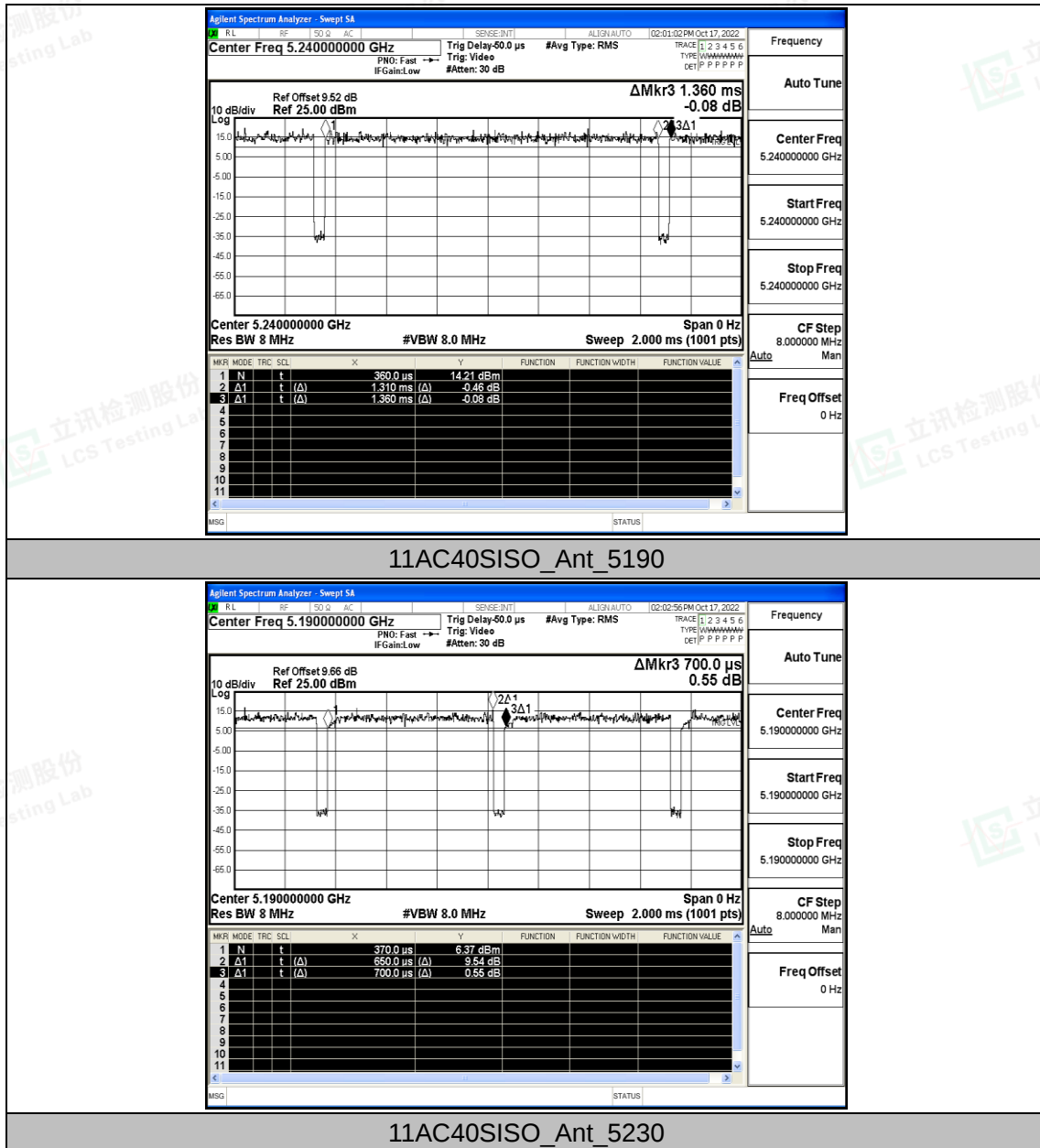
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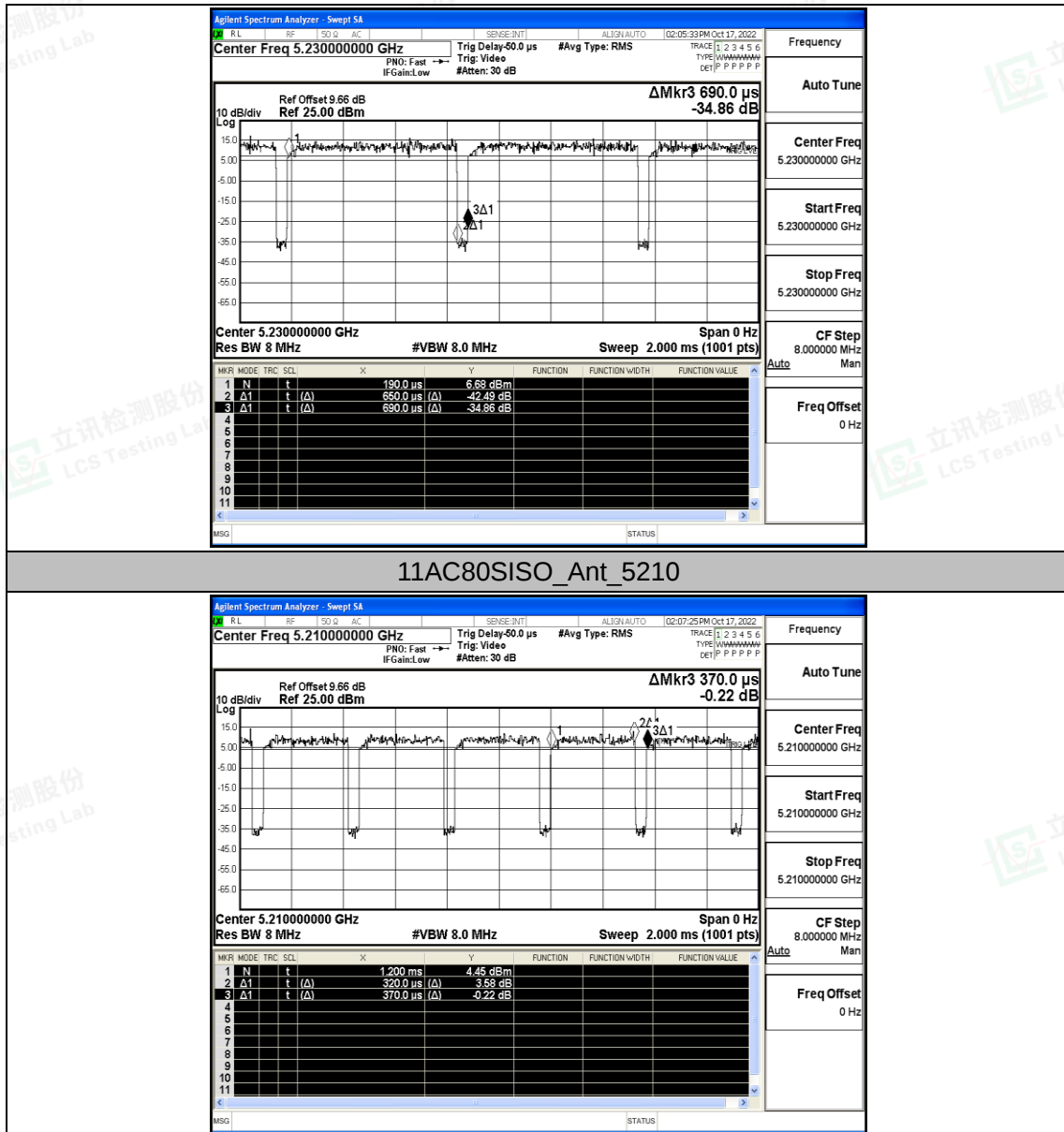


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