



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: TABLET PC

Test Model: H819E

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Nick Peng





D.1 Emission Bandwidth

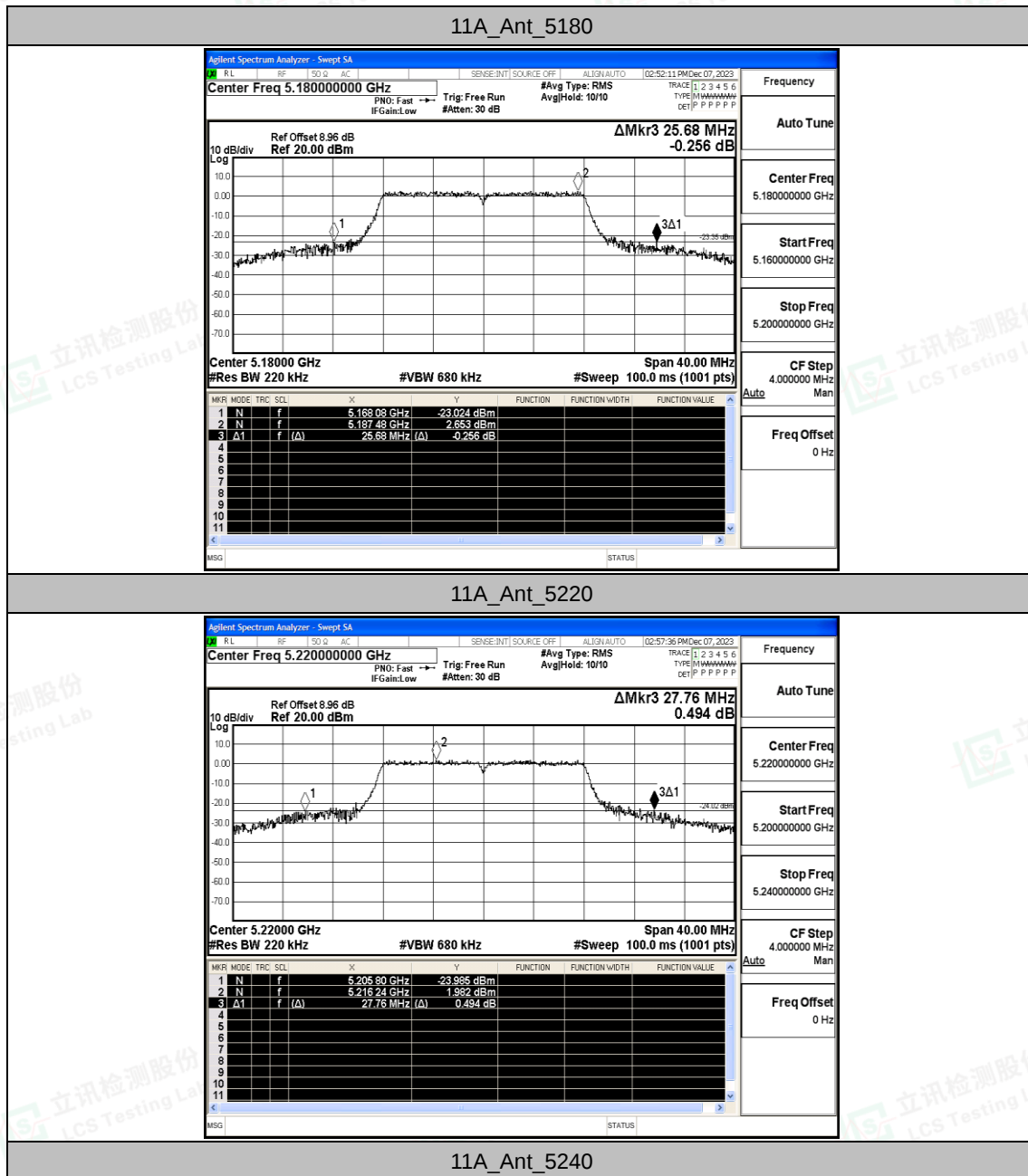
Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5180	25.240	5167.760	5193.000	---	---
		5220	27.480	5206.120	5233.600	---	---
		5240	25.800	5225.800	5251.600	---	---
11N20SISO	Ant	5180	29.720	5165.720	5195.440	---	---
		5220	27.440	5206.560	5234.000	---	---
		5240	29.280	5225.680	5254.960	---	---
11N40SISO	Ant	5190	44.720	5169.120	5213.840	---	---
		5230	39.600	5210.160	5249.760	---	---
11AC20SISO	Ant	5180	27.880	5166.520	5194.400	---	---
		5220	29.920	5205.200	5235.120	---	---
		5240	28.480	5226.040	5254.520	---	---
11AC40SISO	Ant	5190	45.120	5168.560	5213.680	---	---
		5230	41.280	5209.040	5250.320	---	---
11AC80SISO	Ant	5210	85.760	5166.160	5251.920	---	---





Test Graphs

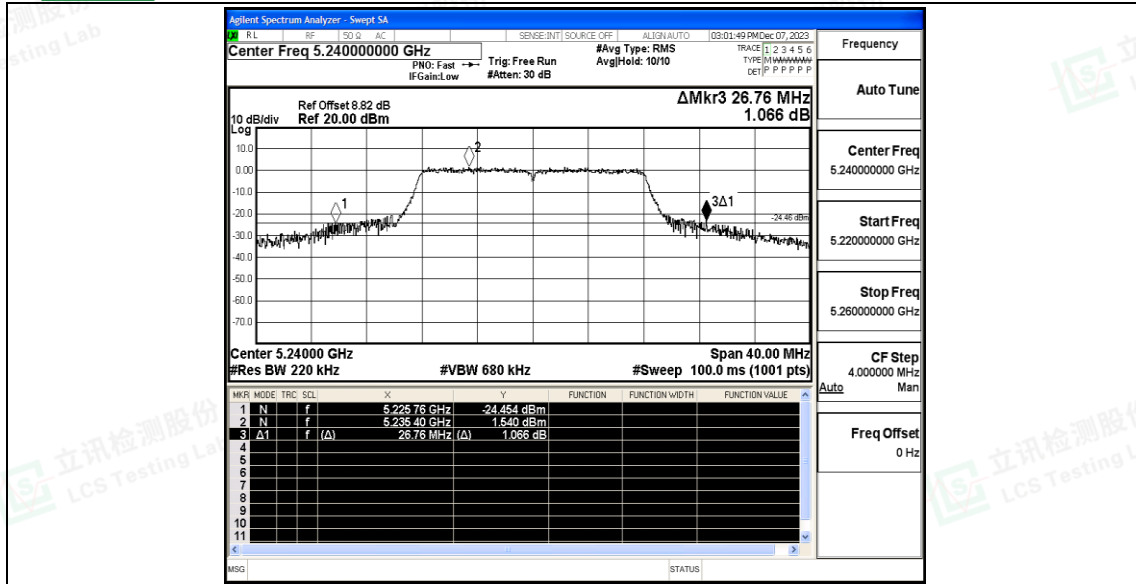


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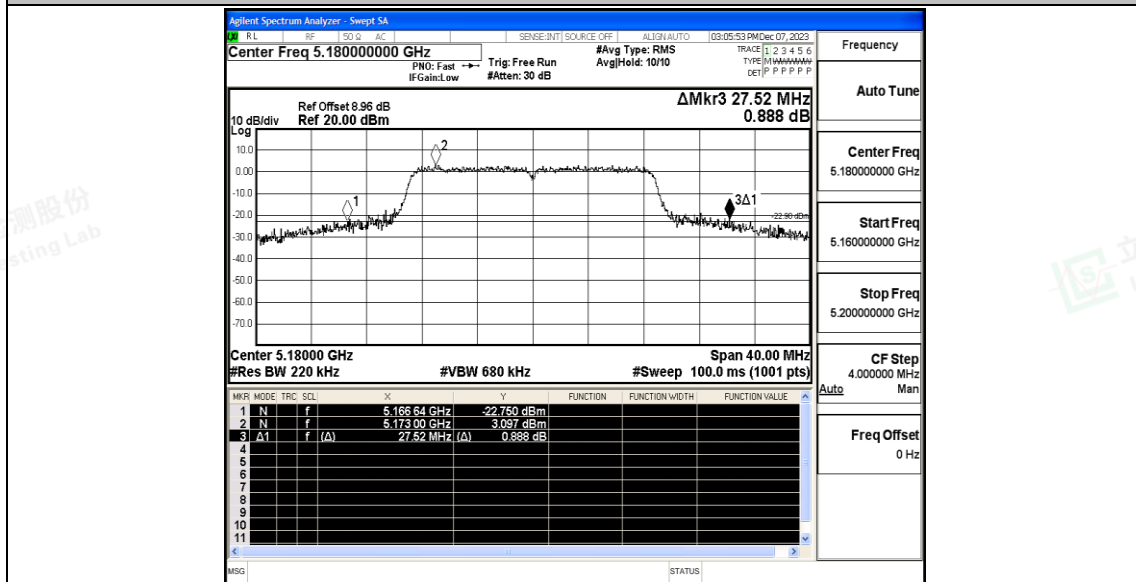
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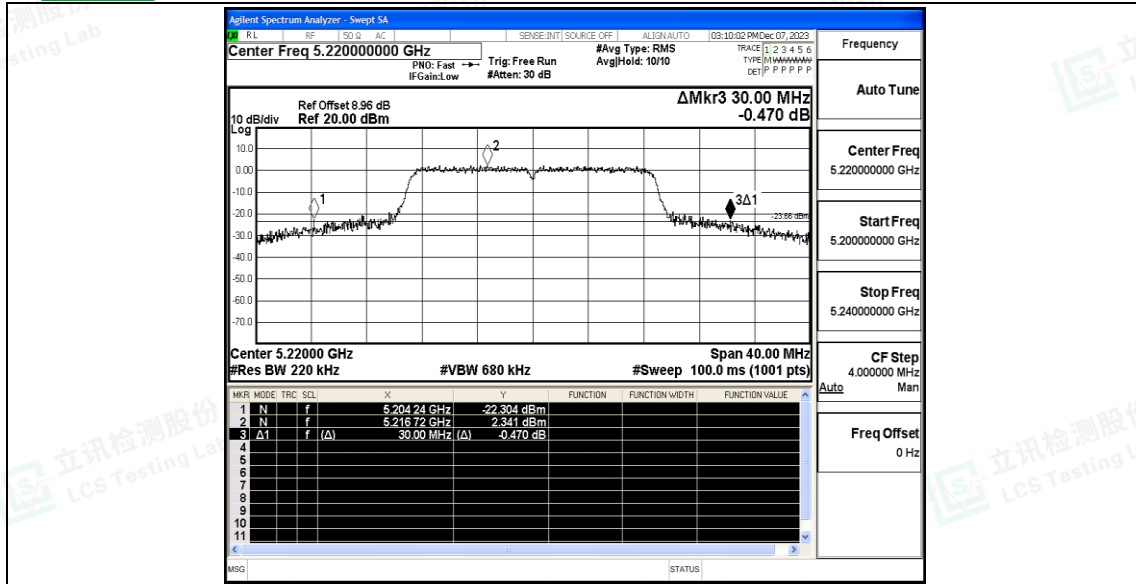


11N20SISO_Ant_5180

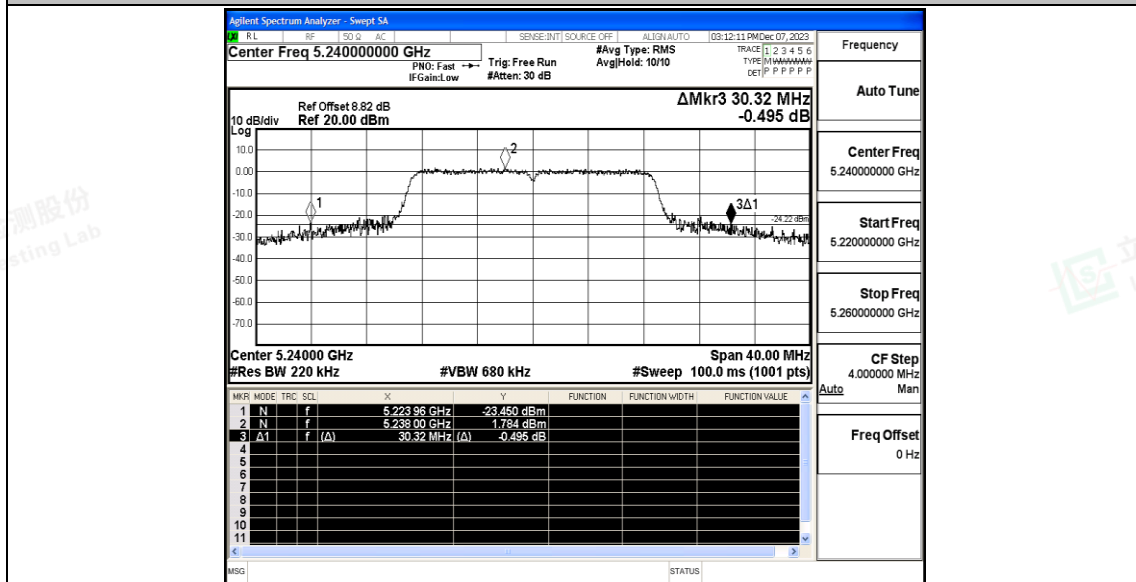


11N20SISO_Ant_5220



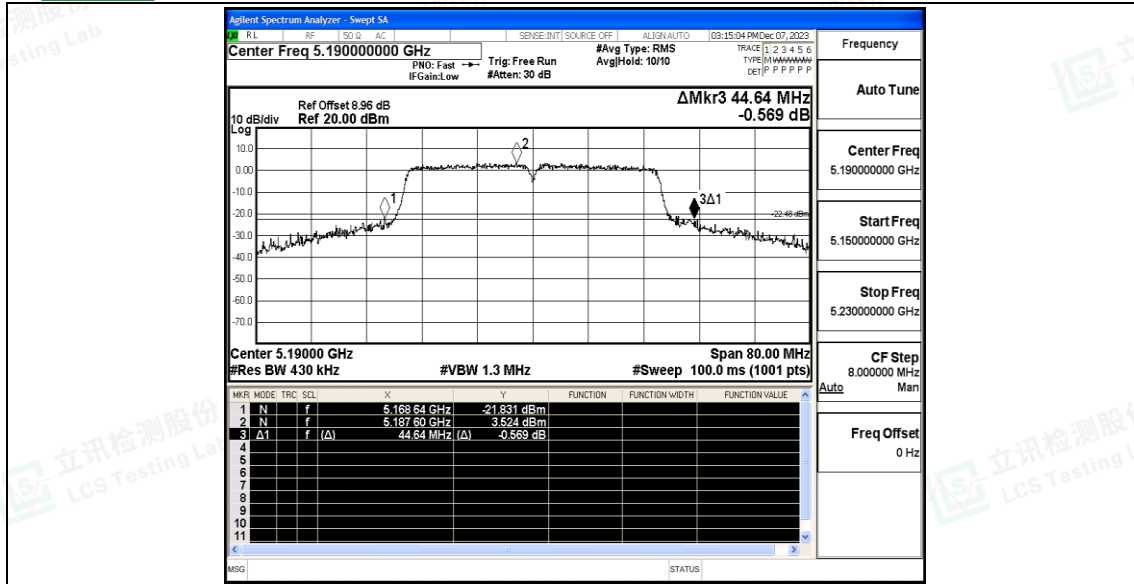


11N20SISO_Ant_5240

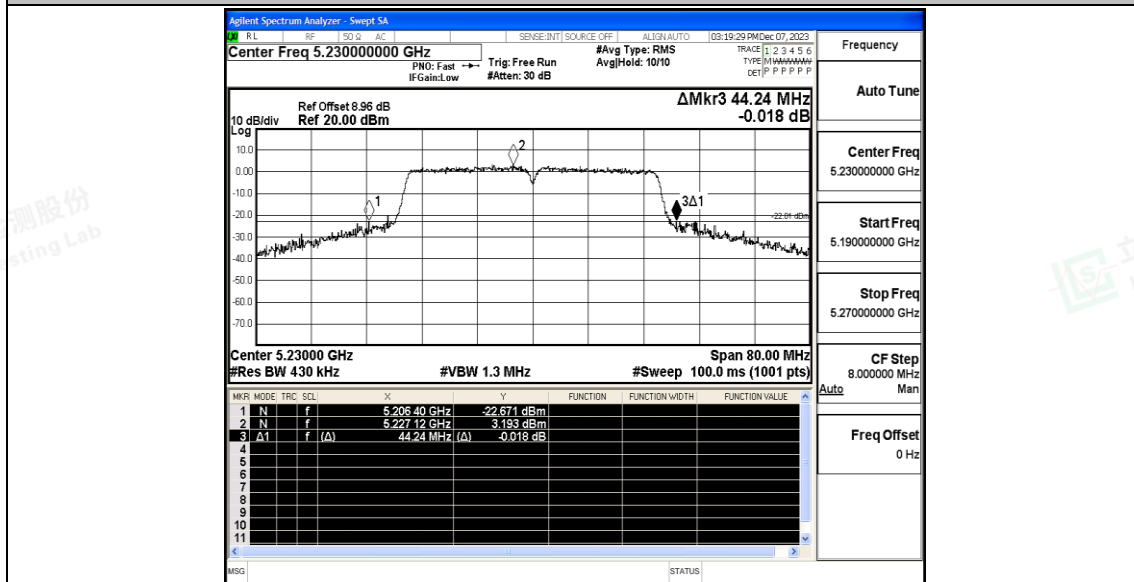


11N40SISO_Ant_5190



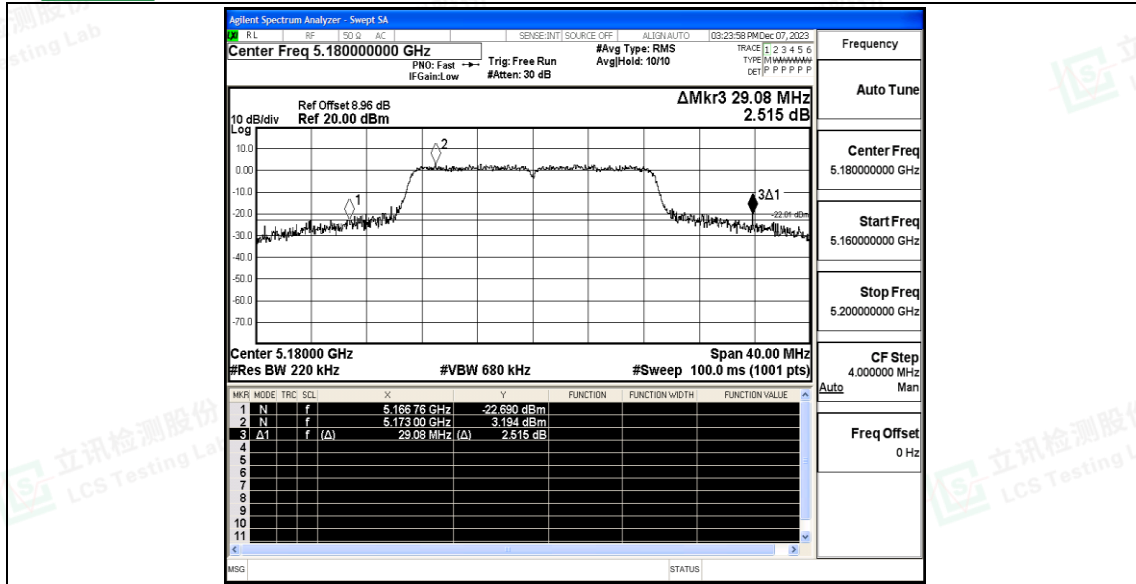


11N40SISO_Ant_5230

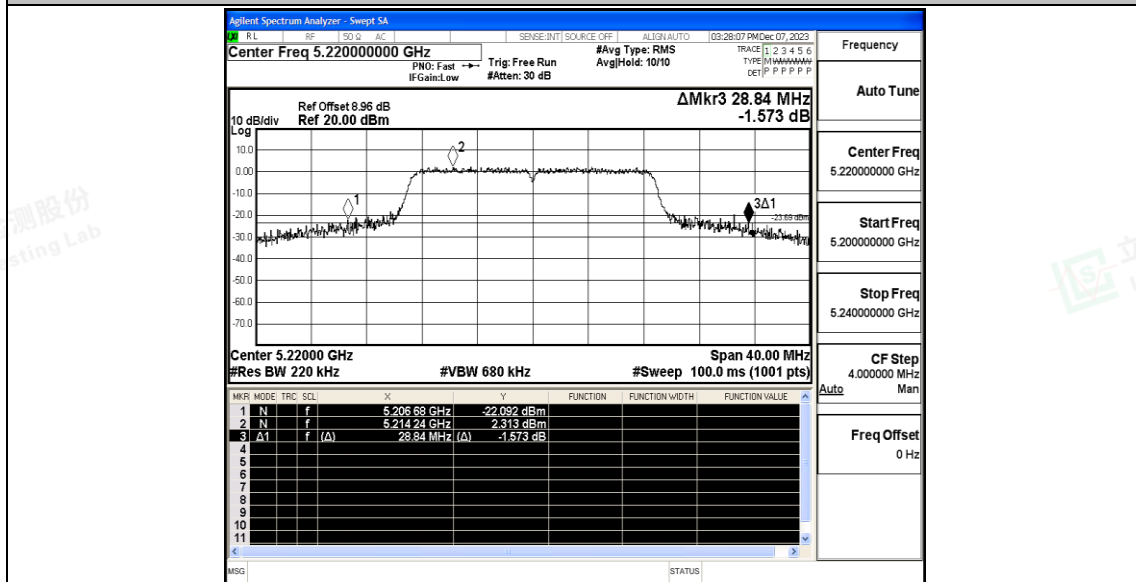


11AC20SISO_Ant_5180



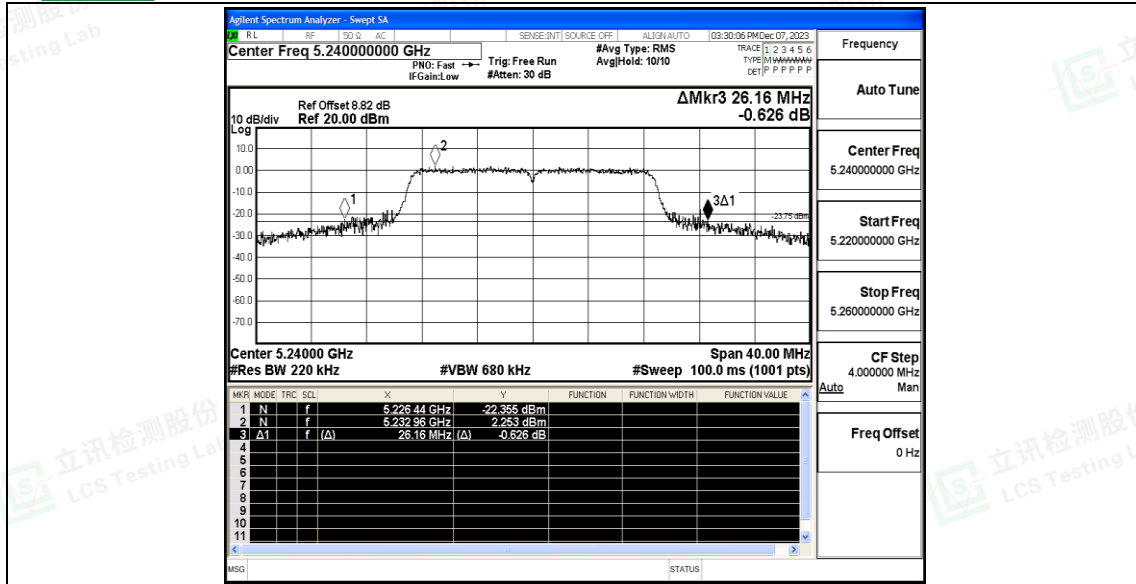


11AC20SISO_Ant_5220

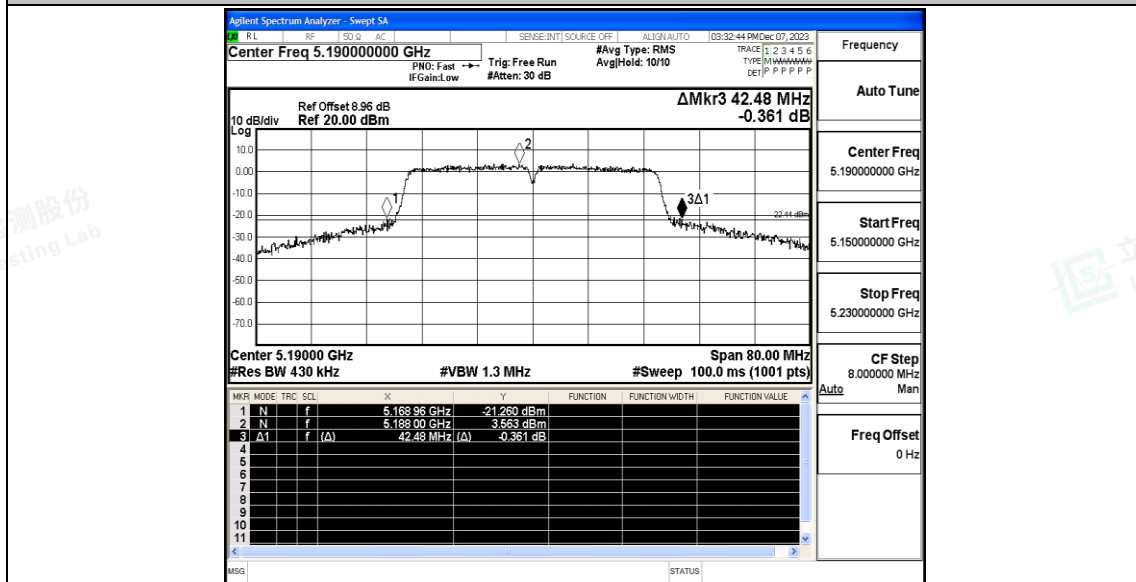


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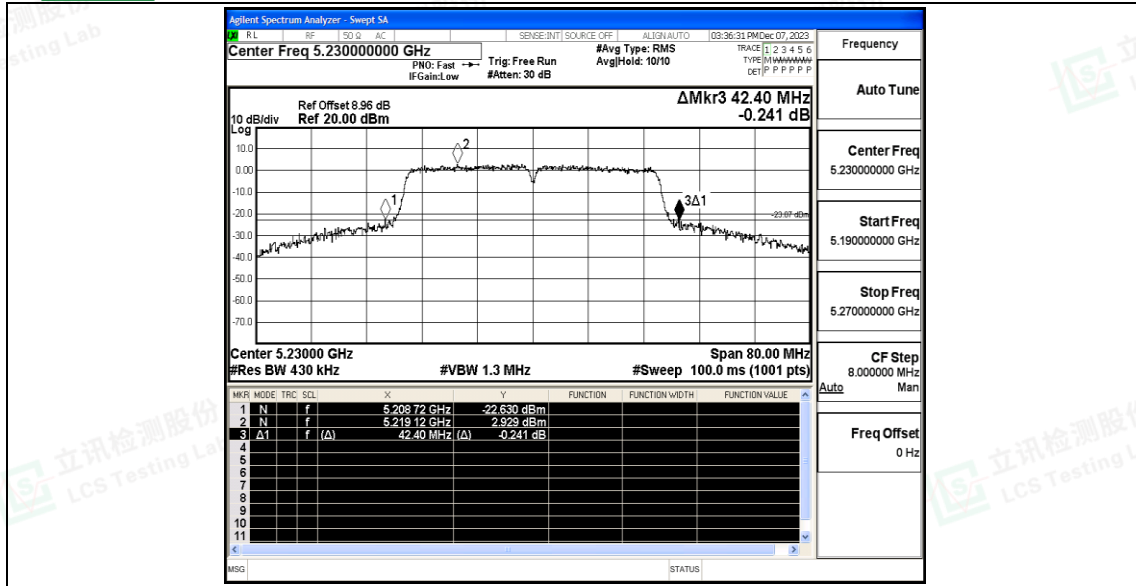


11AC40SISO_Ant_5190



11AC40SISO_Ant_5230







D.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant	5180	12.41	95.89	0.18	12.59	≤23.98	PASS
		5220	12.07	95.89	0.18	12.25	≤23.98	PASS
		5240	11.60	95.21	0.21	11.81	≤23.98	PASS
11N20SISO	Ant	5180	13.05	94.40	0.25	13.30	≤23.98	PASS
		5220	12.37	94.40	0.25	12.62	≤23.98	PASS
		5240	11.82	95.16	0.22	12.04	≤23.98	PASS
11N40SISO	Ant	5190	12.49	90.77	0.42	12.91	≤23.98	PASS
		5230	11.86	89.23	0.49	12.35	≤23.98	PASS
11AC20SISO	Ant	5180	13.08	95.20	0.21	13.29	≤23.98	PASS
		5220	12.38	95.20	0.21	12.59	≤23.98	PASS
		5240	11.88	94.40	0.25	12.13	≤23.98	PASS
11AC40SISO	Ant	5190	12.52	89.39	0.49	13.01	≤23.98	PASS
		5230	11.82	90.91	0.41	12.23	≤23.98	PASS
11AC80SISO	Ant	5210	10.05	83.33	0.79	10.84	≤23.98	PASS





D.3 Maximum power spectral density

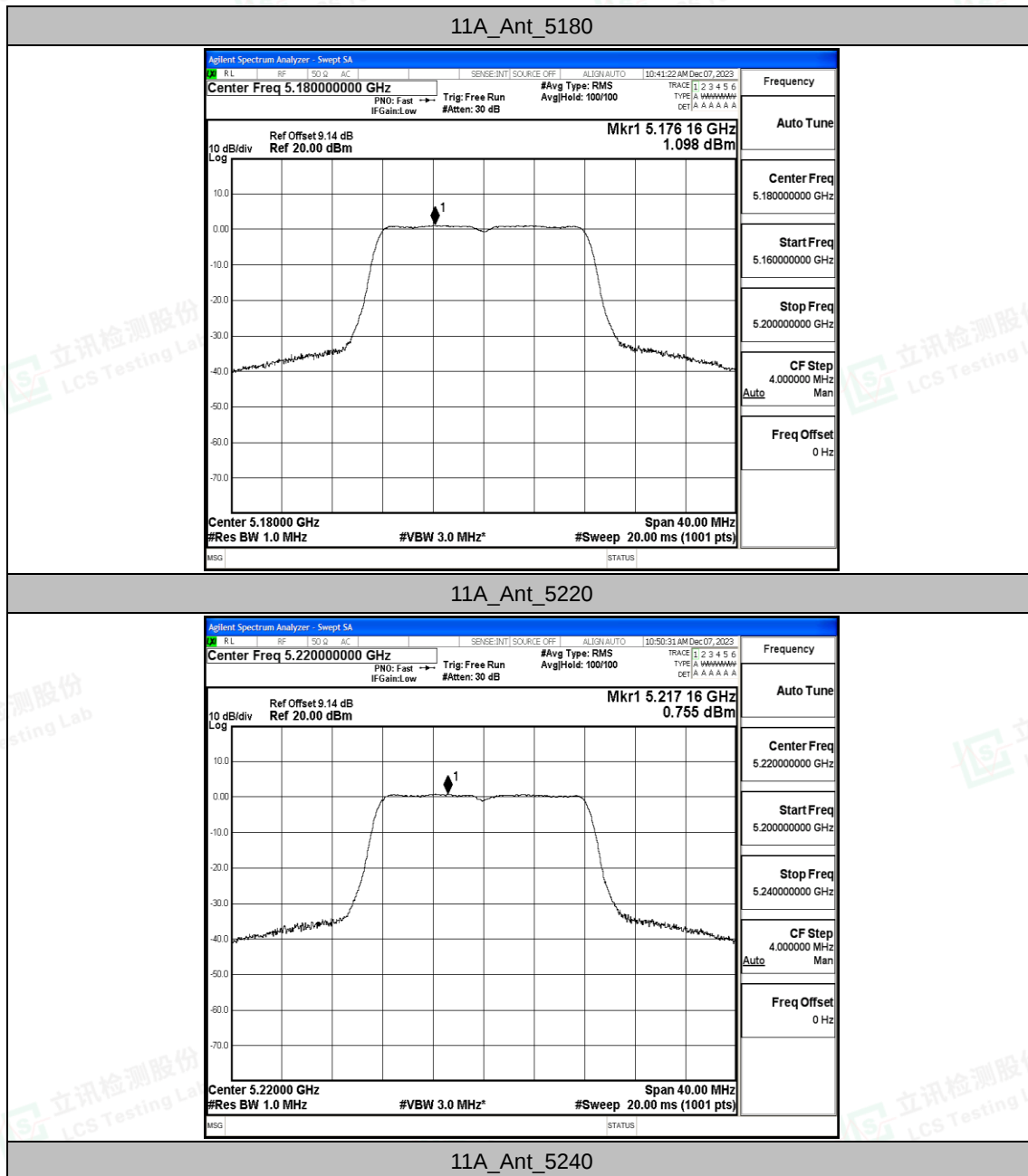
Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant	5180	1.1	≤11.00	PASS
		5220	0.76	≤11.00	PASS
		5240	0.43	≤11.00	PASS
11N20SISO	Ant	5180	1.61	≤11.00	PASS
		5220	0.94	≤11.00	PASS
		5240	0.39	≤11.00	PASS
11N40SISO	Ant	5190	-1.55	≤11.00	PASS
		5230	-2.05	≤11.00	PASS
11AC20SISO	Ant	5180	1.61	≤11.00	PASS
		5220	0.95	≤11.00	PASS
		5240	0.49	≤11.00	PASS
11AC40SISO	Ant	5190	-1.32	≤11.00	PASS
		5230	-2.29	≤11.00	PASS
11AC80SISO	Ant	5210	-6.57	≤11.00	PASS





Test Graphs

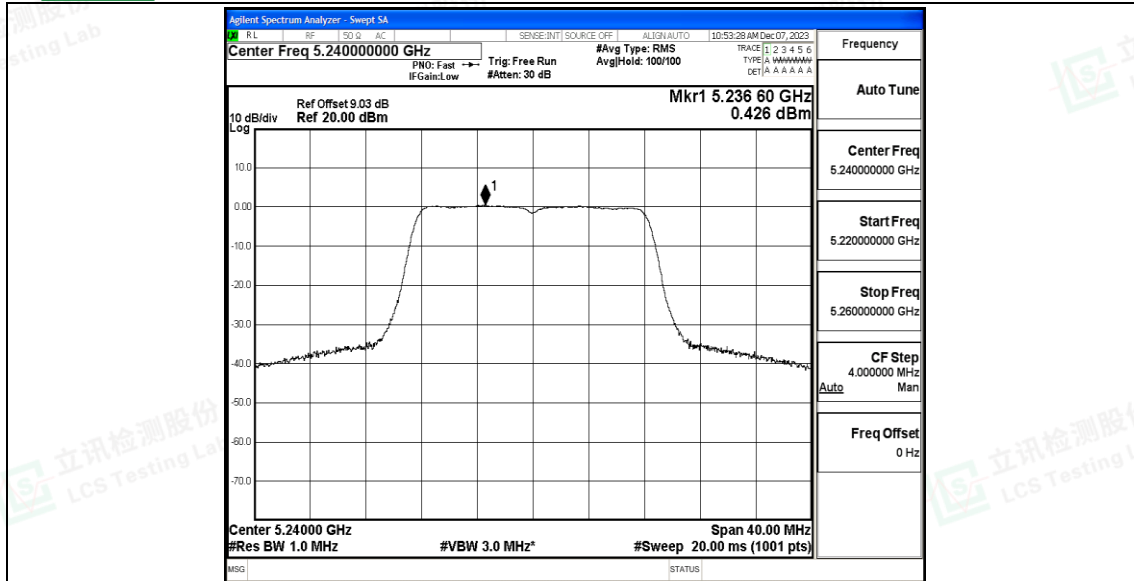


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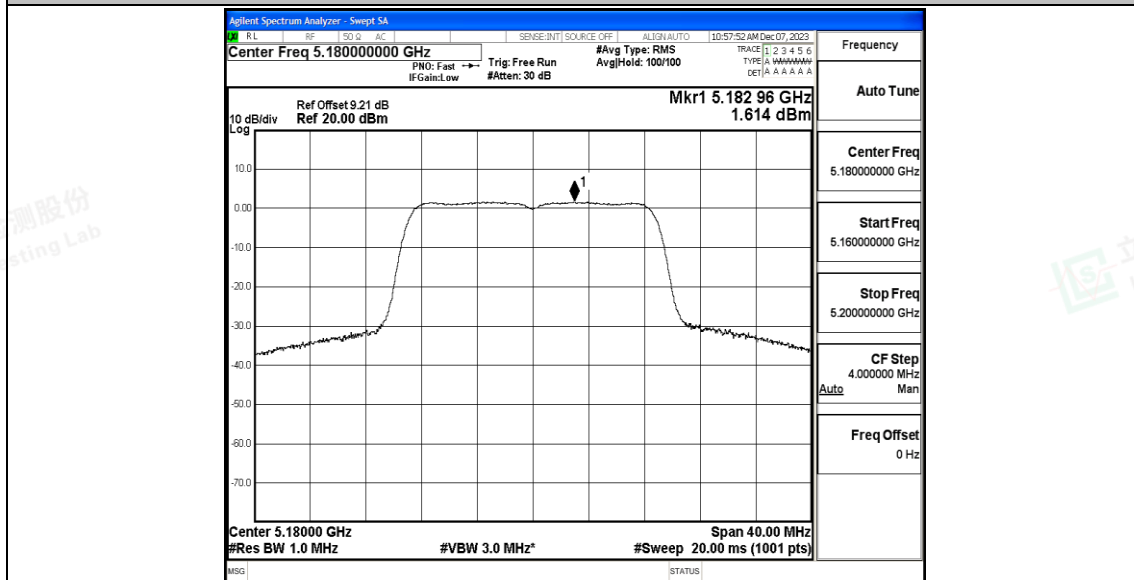
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11N20SISO_Ant_5180



11N20SISO_Ant_5220

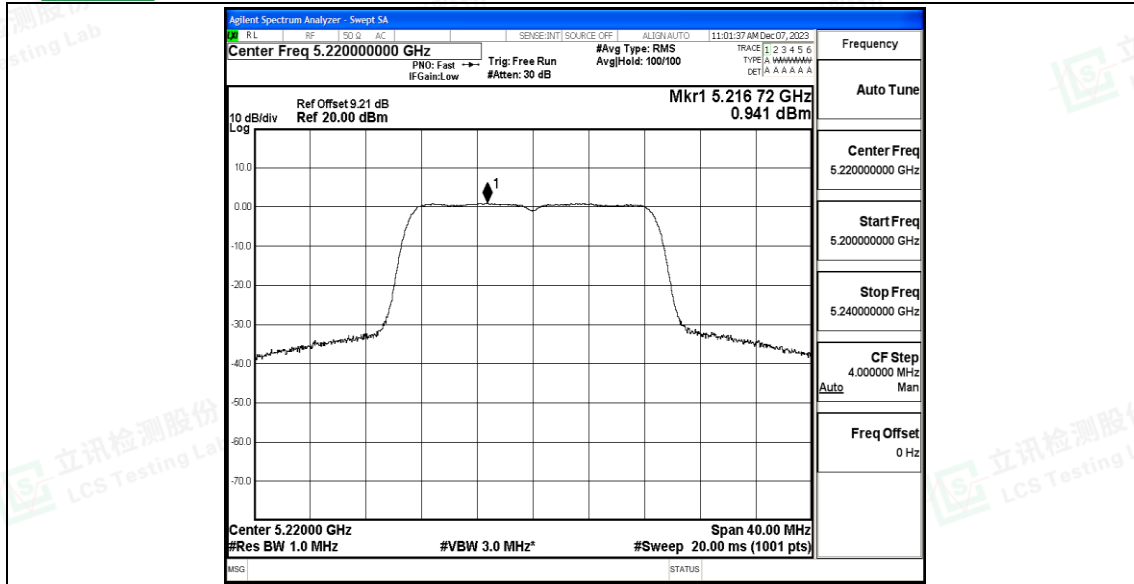


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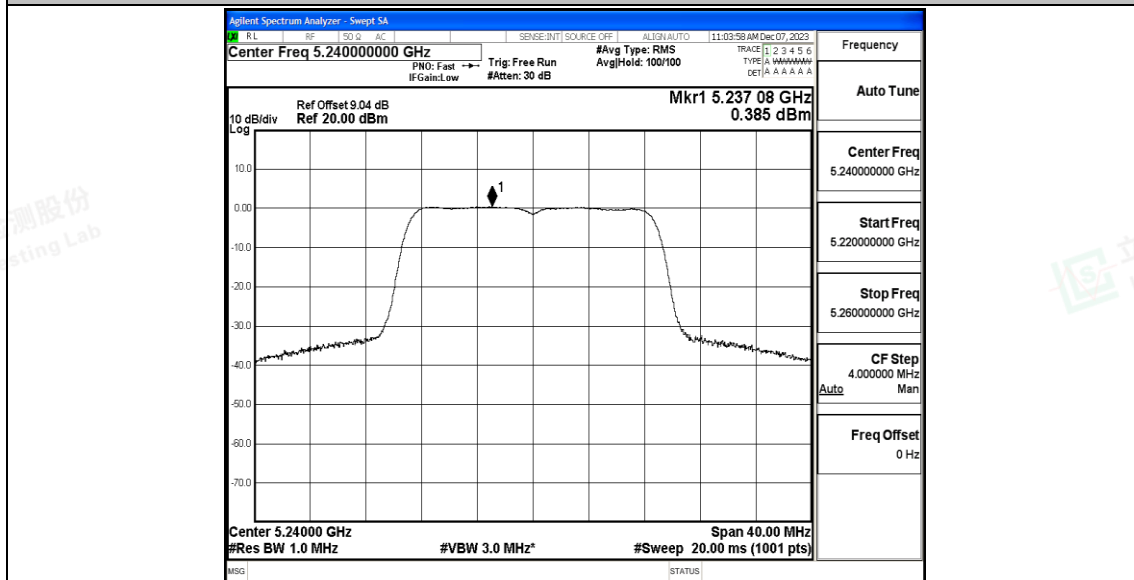
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

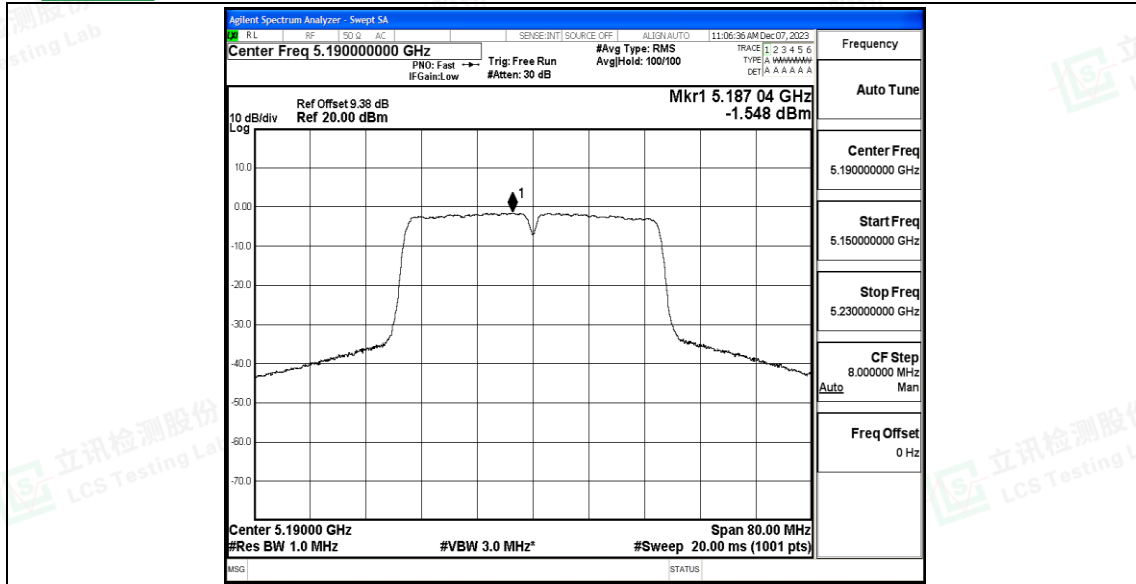


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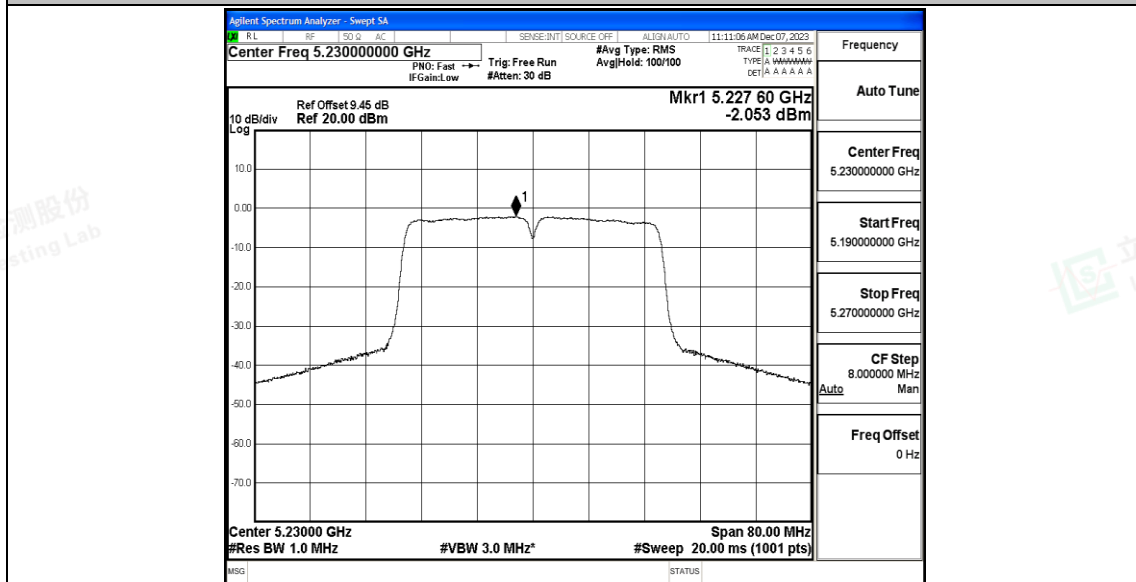
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

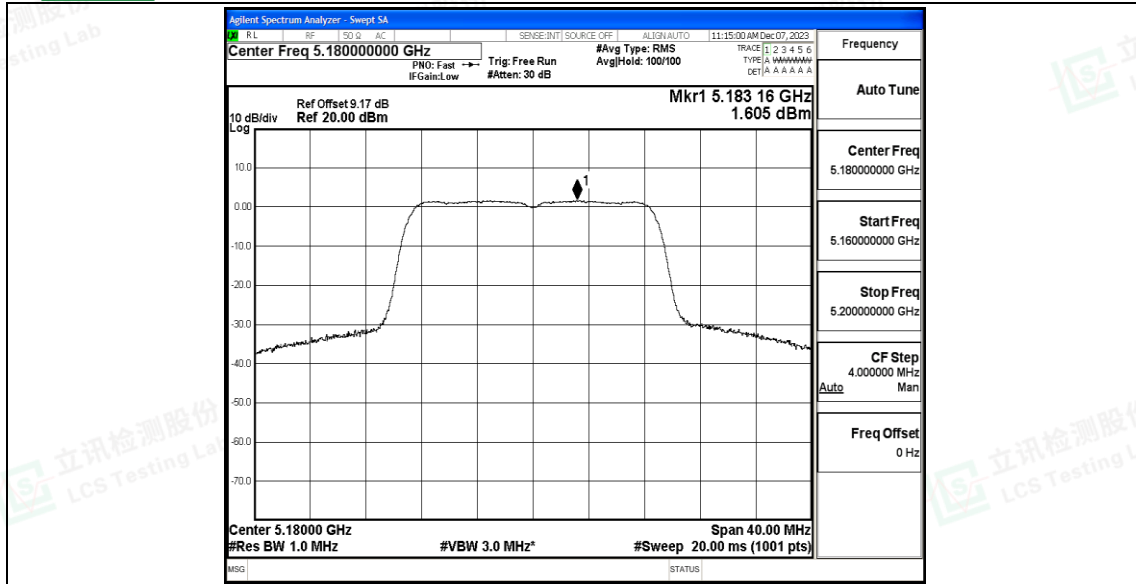


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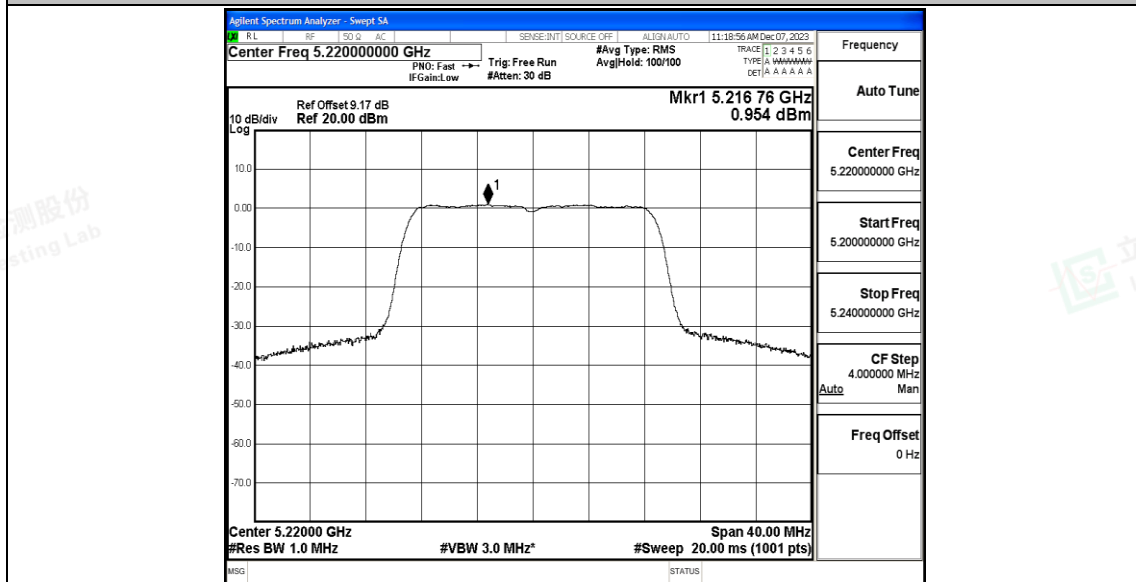
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

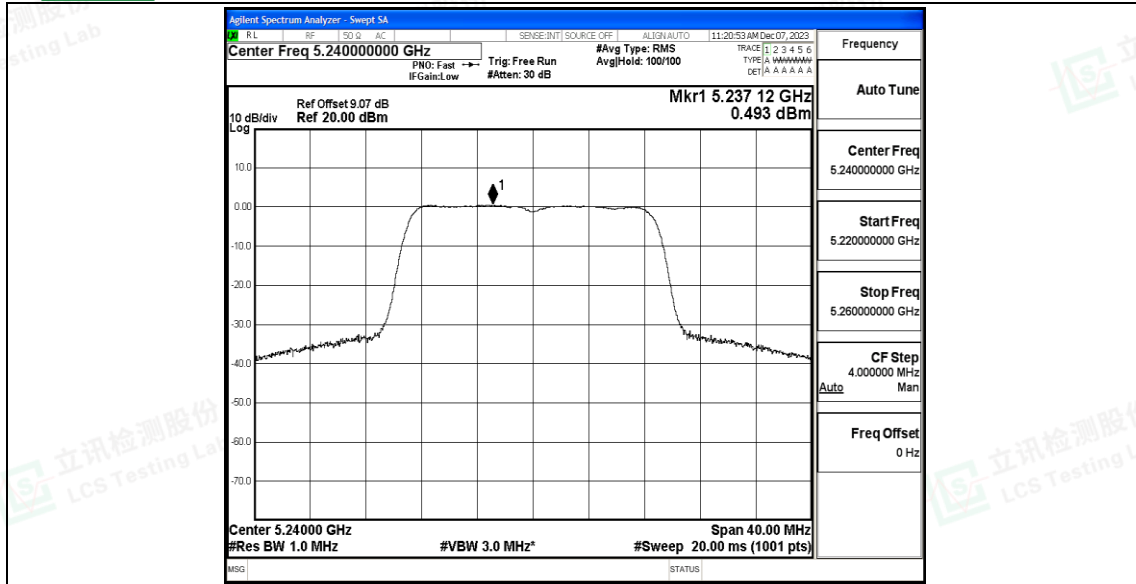


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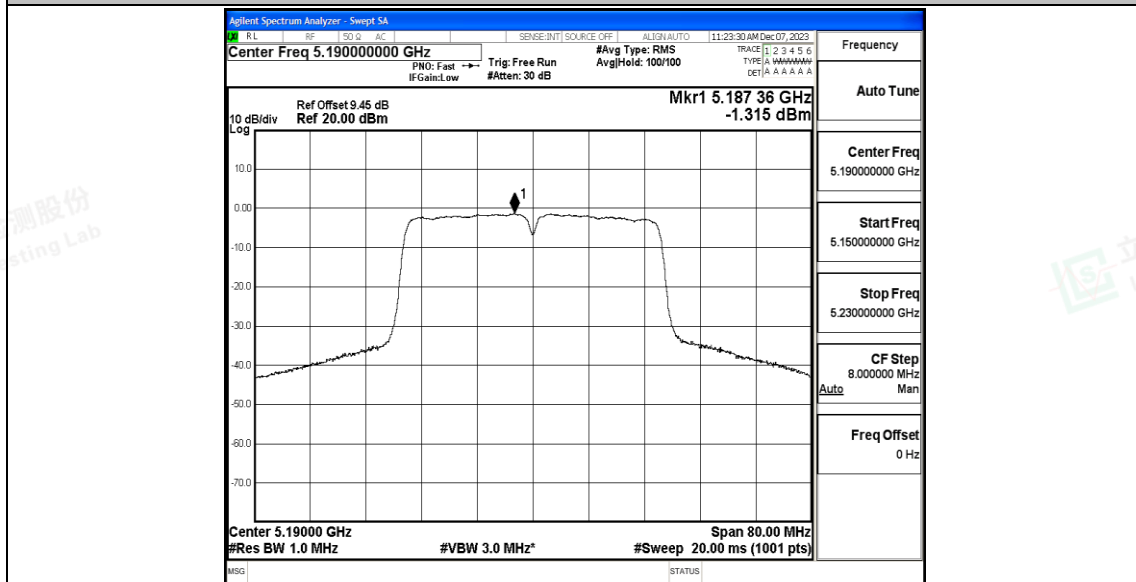
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

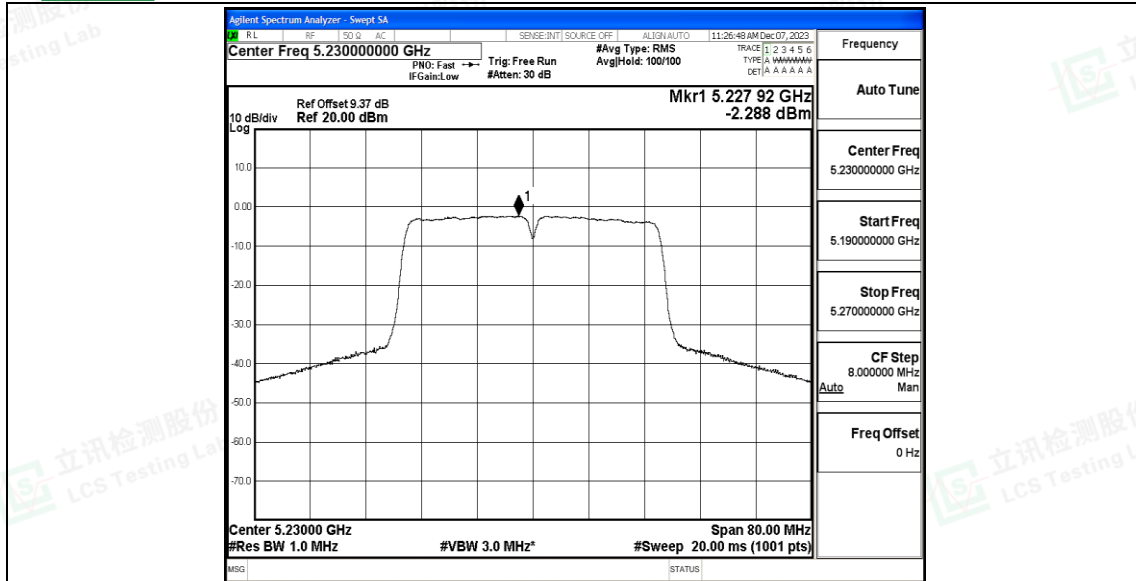


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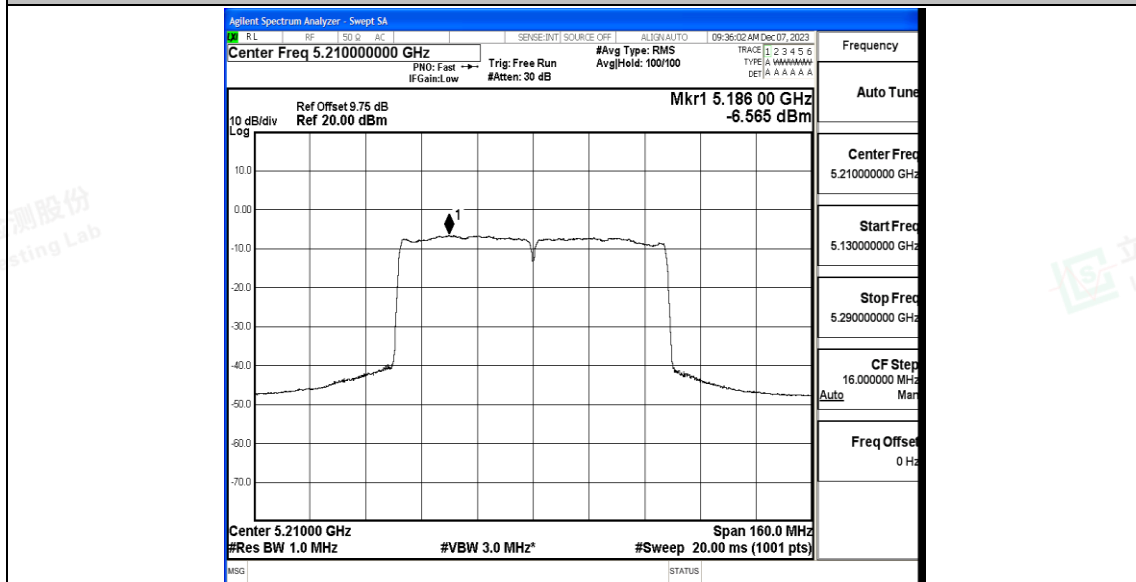
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11AC80SISO_Ant_5210



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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	-57.51	≤-41.20	37.69	≤54	PASS
				AV	5149.600	-44.25	≤-41.20	50.95	≤54	PASS
				AV	5150.000	-43.98	≤-41.20	51.22	≤54	PASS
				Peak	4500.000	-52.49	≤-21.20	42.71	≤74	PASS
				Peak	5148.900	-33.61	≤-21.20	61.59	≤74	PASS
				Peak	5150.000	-33.67	≤-21.20	61.53	≤74	PASS
		High	5240	AV	5350.000	-55.42	≤-41.20	39.78	≤54	PASS
				AV	5350.560	-55.3	≤-41.20	39.90	≤54	PASS
				AV	5460.000	-56.5	≤-41.20	38.70	≤54	PASS
				Peak	5350.000	-48.93	≤-21.20	46.27	≤74	PASS
				Peak	5387.040	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	5460.000	-50.72	≤-21.20	44.48	≤74	PASS
11N20SIS O	Ant	Low	5180	AV	4500.000	-57.36	≤-41.20	37.84	≤54	PASS
				AV	5149.600	-42.46	≤-41.20	52.74	≤54	PASS
				AV	5150.000	-42.22	≤-41.20	52.98	≤54	PASS
				Peak	4500.000	-52.32	≤-21.20	42.88	≤74	PASS
				Peak	5149.600	-33.77	≤-21.20	61.43	≤74	PASS
				Peak	5150.000	-33.74	≤-21.20	61.46	≤74	PASS
		High	5240	AV	5350.000	-55.36	≤-41.20	39.84	≤54	PASS
				AV	5350.560	-55.18	≤-41.20	40.02	≤54	PASS
				AV	5460.000	-56.35	≤-41.20	38.85	≤54	PASS
				Peak	5350.000	-48.29	≤-21.20	46.91	≤74	PASS
				Peak	5429.760	-45.97	≤-21.20	49.23	≤74	PASS
				Peak	5460.000	-51.23	≤-21.20	43.97	≤74	PASS
11N40SIS O	Ant	Low	5190	AV	4500.000	-57.1	≤-41.20	38.10	≤54	PASS
				AV	5149.600	-51.76	≤-41.20	43.44	≤54	PASS
				AV	5150.000	-51.53	≤-41.20	43.67	≤54	PASS
				Peak	4500.000	-50.68	≤-21.20	44.52	≤74	PASS
				Peak	4923.500	-45.75	≤-21.20	49.45	≤74	PASS
				Peak	5150.000	-41.81	≤-21.20	53.39	≤74	PASS
		High	5230	AV	5350.000	-55.27	≤-41.20	39.93	≤54	PASS
				AV	5350.800	-55.08	≤-41.20	40.12	≤54	PASS
				AV	5460.000	-56.06	≤-41.20	39.14	≤54	PASS
				Peak	5350.000	-50.47	≤-21.20	44.73	≤74	PASS
				Peak	5401.240	-46.57	≤-21.20	48.63	≤74	PASS



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11AC20SI SO	Ant	Low	5180	Peak	5460.000	-51.24	≤-21.20	43.96	≤74	PASS
				AV	4500.000	-57.46	≤-41.20	37.74	≤54	PASS
				AV	5149.600	-42.65	≤-41.20	52.55	≤54	PASS
				AV	5150.000	-42.21	≤-41.20	52.99	≤54	PASS
				Peak	4500.000	-52.28	≤-21.20	42.92	≤74	PASS
				Peak	5149.600	-34.18	≤-21.20	61.02	≤74	PASS
				Peak	5150.000	-34.02	≤-21.20	61.18	≤74	PASS
		High	5240	AV	5350.000	-55.36	≤-41.20	39.84	≤54	PASS
				AV	5351.040	-55.28	≤-41.20	39.92	≤54	PASS
				AV	5460.000	-56.48	≤-41.20	38.72	≤54	PASS
				Peak	5350.000	-50.01	≤-21.20	45.19	≤74	PASS
				Peak	5455.440	-46.66	≤-21.20	48.54	≤74	PASS
				Peak	5460.000	-51.31	≤-21.20	43.89	≤74	PASS
11AC40SI SO	Ant	Low	5190	AV	4500.000	-57.28	≤-41.20	37.92	≤54	PASS
				AV	5148.900	-51.01	≤-41.20	44.19	≤54	PASS
				AV	5150.000	-51.37	≤-41.20	43.83	≤54	PASS
				Peak	4500.000	-50.71	≤-21.20	44.49	≤74	PASS
				Peak	5148.900	-43.38	≤-21.20	51.82	≤74	PASS
				Peak	5150.000	-46.11	≤-21.20	49.09	≤74	PASS
		High	5230	AV	5350.000	-55.42	≤-41.20	39.78	≤54	PASS
				AV	5352.360	-54.86	≤-41.20	40.34	≤54	PASS
				AV	5460.000	-56.01	≤-41.20	39.19	≤54	PASS
				Peak	5350.000	-49.1	≤-21.20	46.10	≤74	PASS
				Peak	5355.220	-46.94	≤-21.20	48.26	≤74	PASS
				Peak	5460.000	-48.93	≤-21.20	46.27	≤74	PASS
11AC80SI SO	Ant	Low	5210	AV	4500.000	-56.66	≤-41.20	38.54	≤54	PASS
				AV	5149.500	-42.94	≤-41.20	52.26	≤54	PASS
				AV	5150.000	-42.73	≤-41.20	52.47	≤54	PASS
				Peak	4500.000	-50.74	≤-21.20	44.46	≤74	PASS
				Peak	5144.250	-34.35	≤-21.20	60.85	≤74	PASS
				Peak	5150.000	-34.55	≤-21.20	60.65	≤74	PASS
		High	5210	AV	5350.000	-54.68	≤-41.20	40.52	≤54	PASS
				AV	5360.320	-54.47	≤-41.20	40.73	≤54	PASS
				AV	5460.000	-55.38	≤-41.20	39.82	≤54	PASS
				Peak	5350.000	-50	≤-21.20	45.20	≤74	PASS
				Peak	5429.760	-46.57	≤-21.20	48.63	≤74	PASS
				Peak	5460.000	-50.28	≤-21.20	44.92	≤74	PASS



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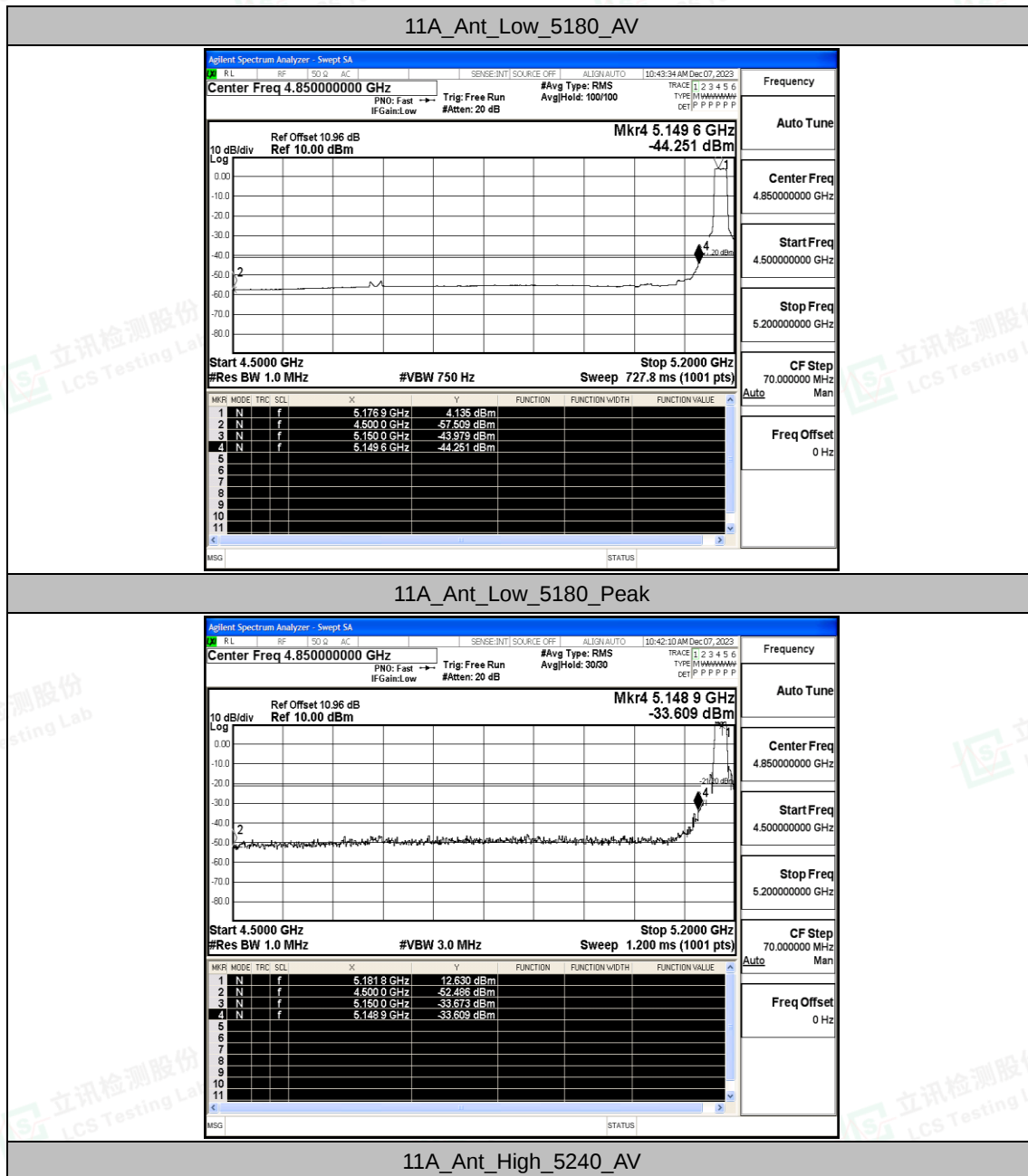
Note:

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

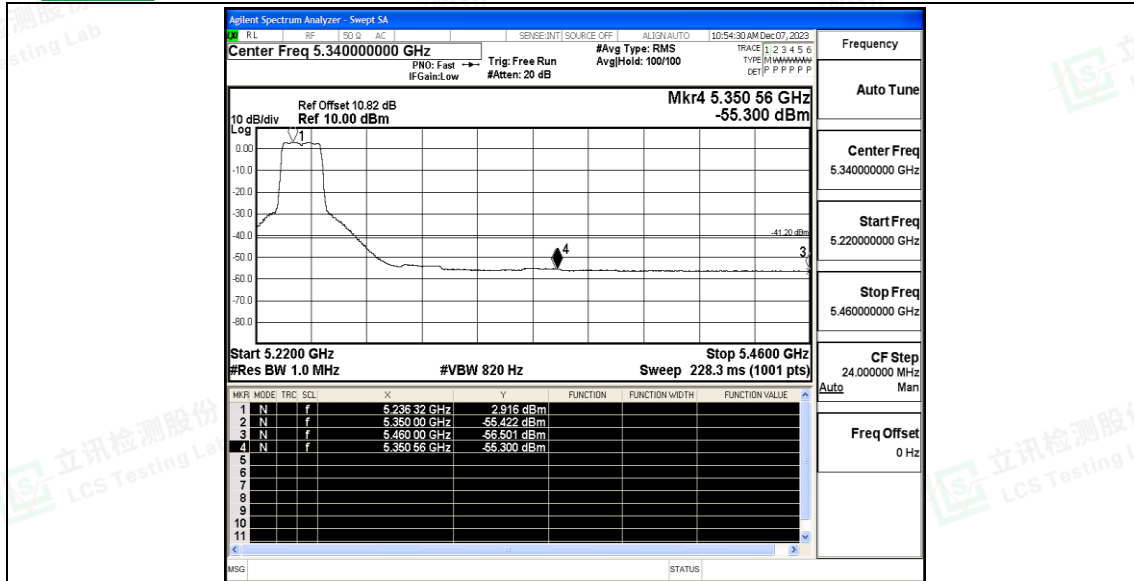


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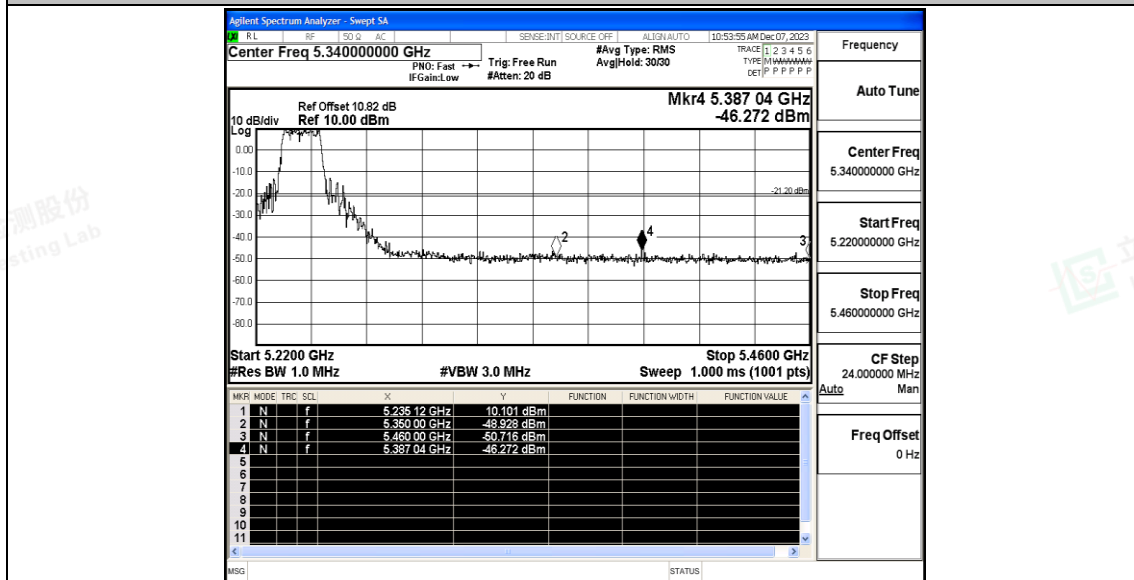
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11A_Ant_High_5240_Peak



11N20SISO_Ant_Low_5180_AV

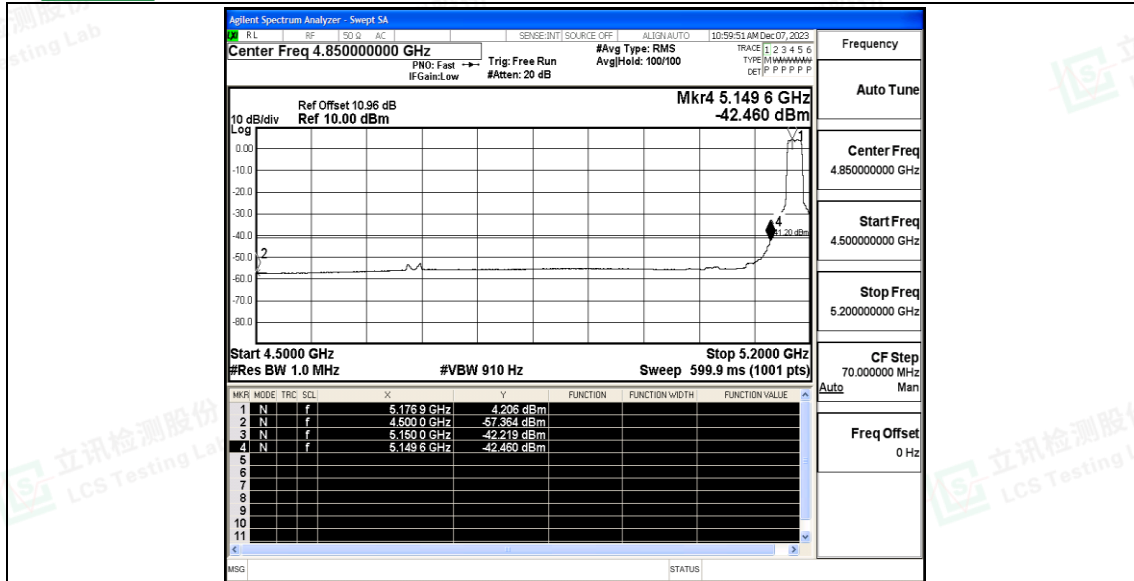


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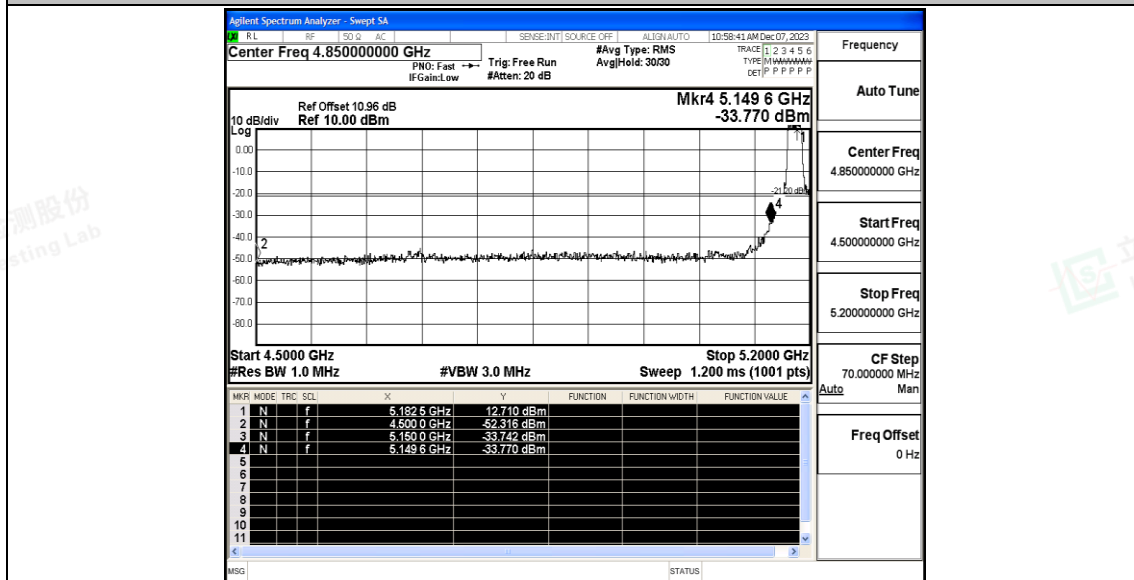
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11N20SISO_Ant_Low_5180_Peak



11N20SISO_Ant_High_5240_AV

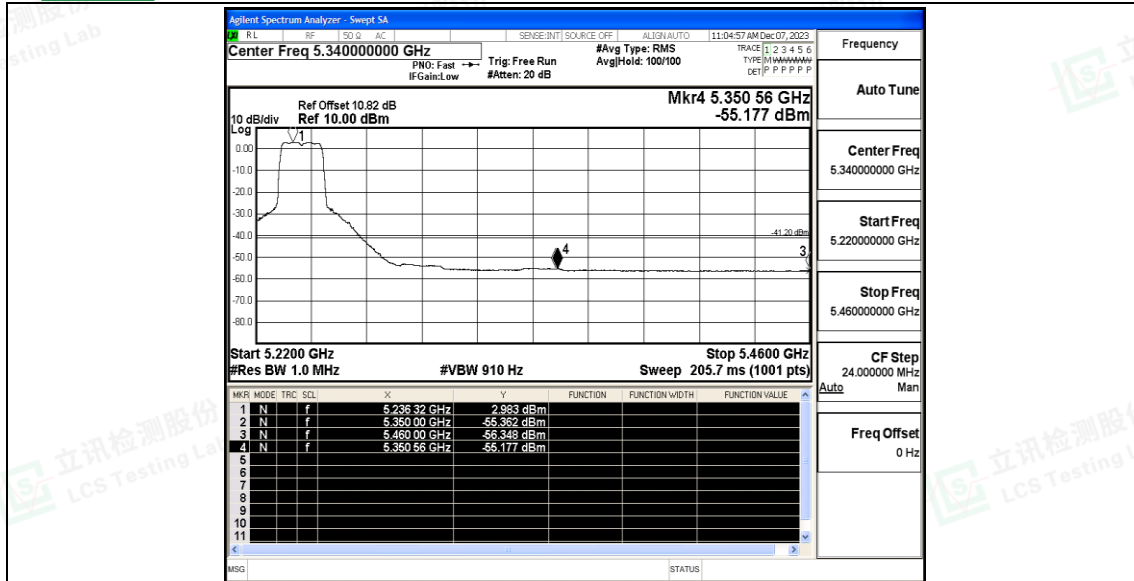


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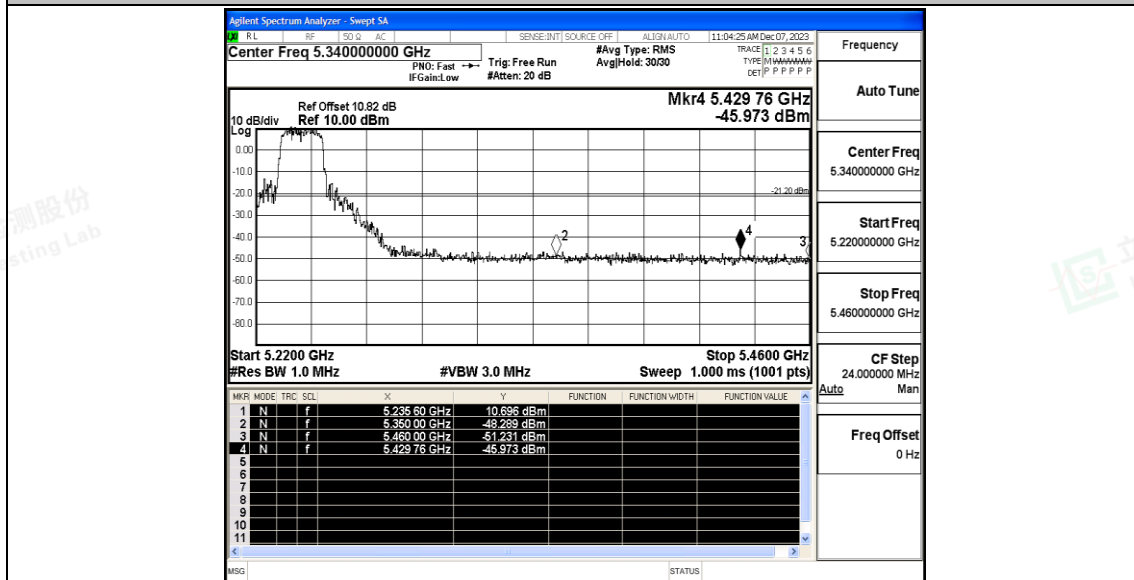
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11N20SISO_Ant_High_5240_Peak



11N40SISO_Ant_Low_5190_AV

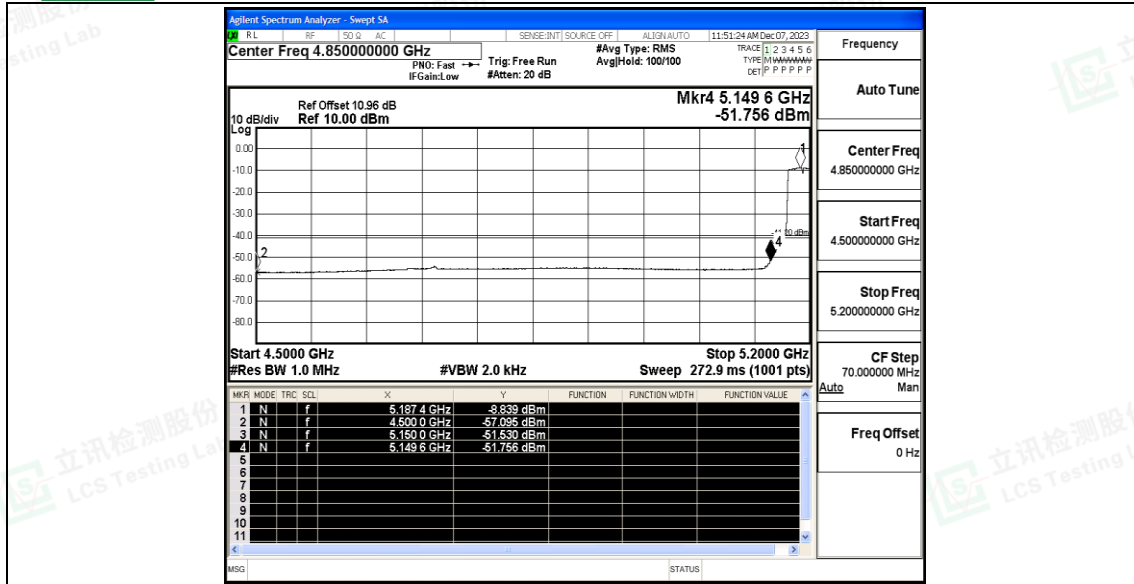


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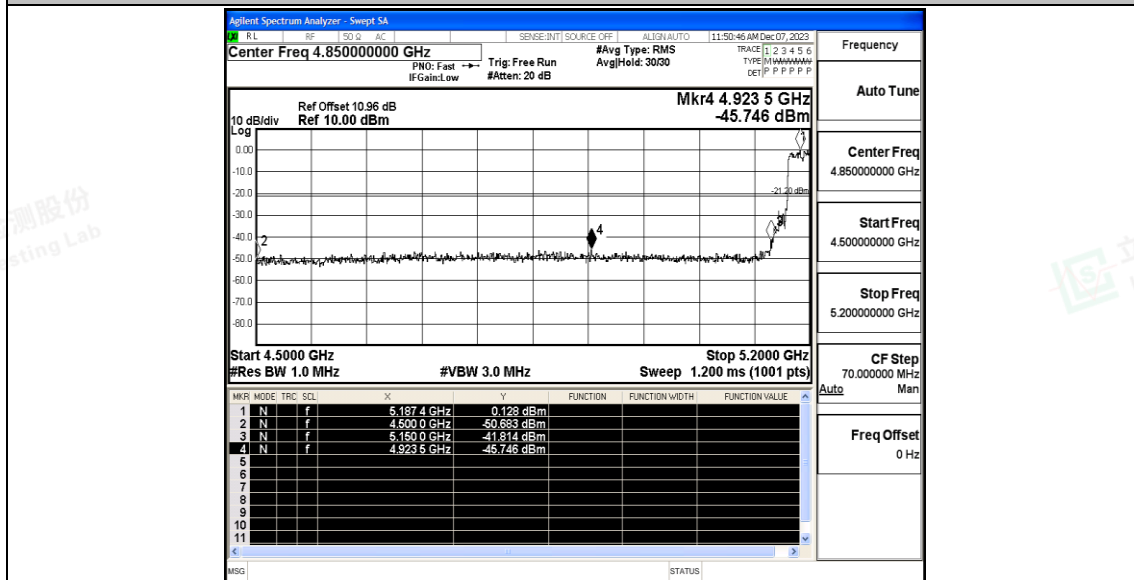
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11N40SISO_Ant_Low_5190_Peak



11N40SISO_Ant_High_5230_AV

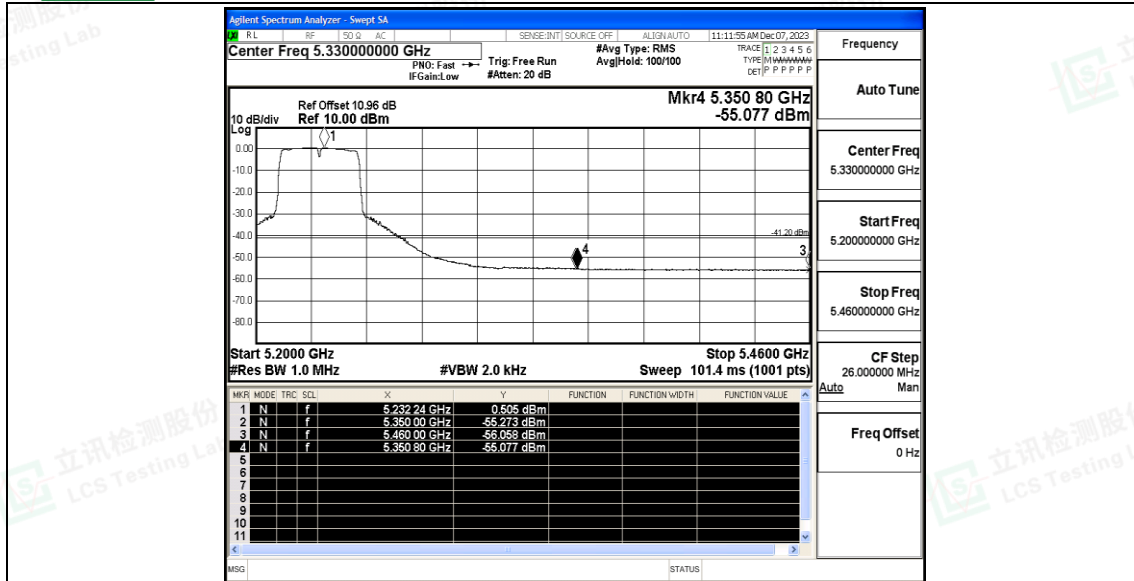


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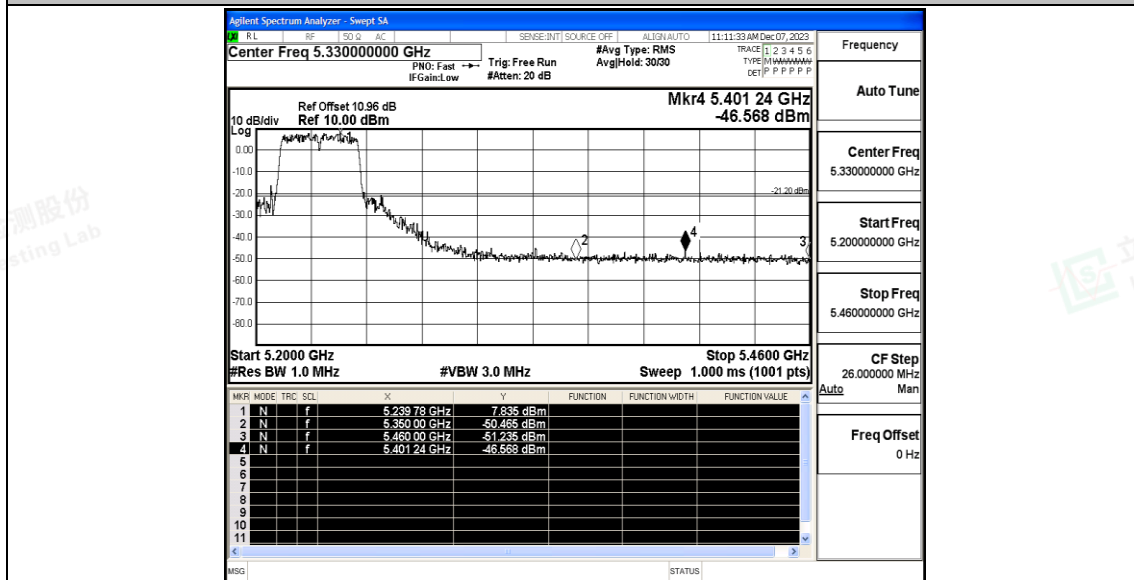
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11N40SISO_Ant_High_5230_Peak



11AC20SISO_Ant_Low_5180_AV

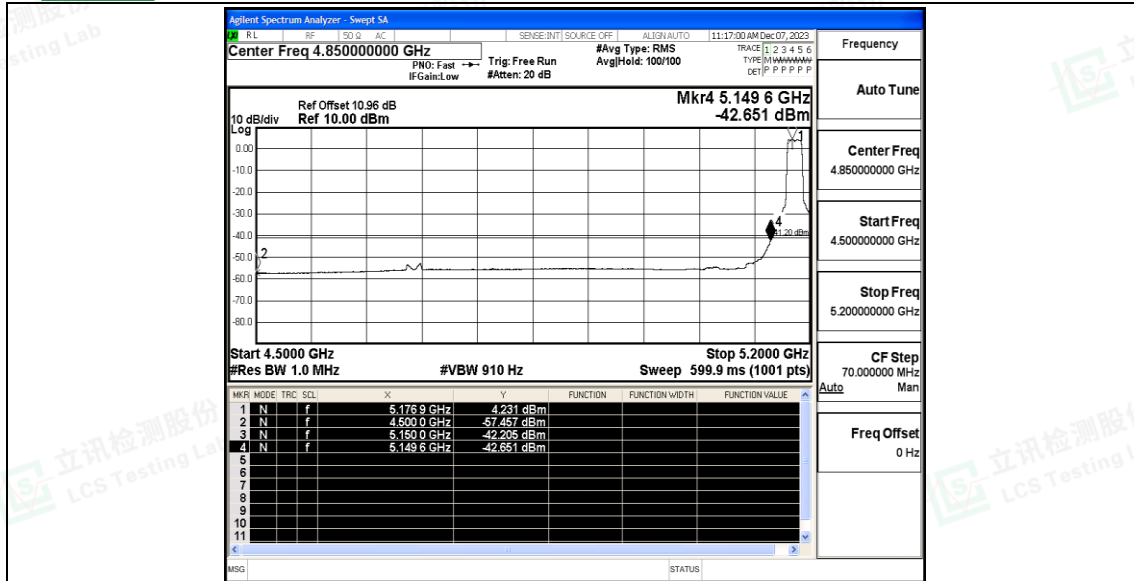


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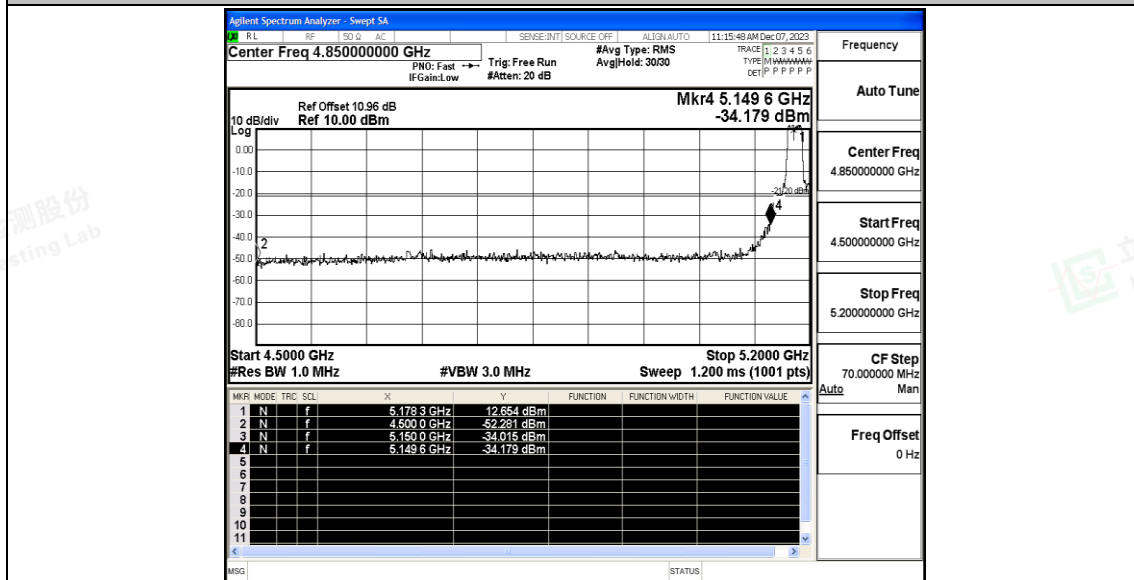
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant_Low_5180_Peak



11AC20SISO_Ant_High_5240_AV

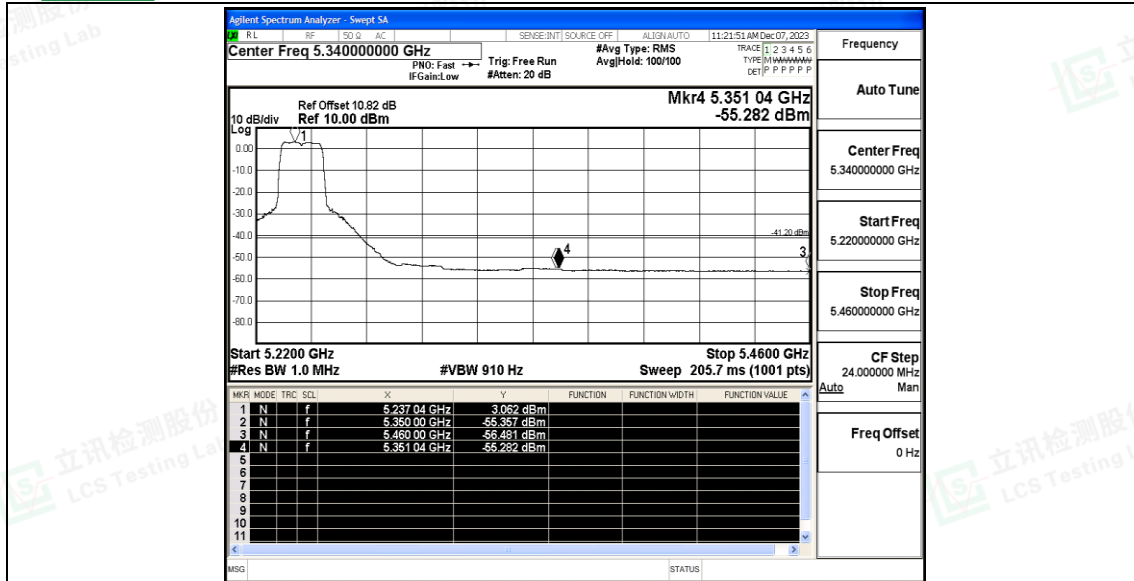


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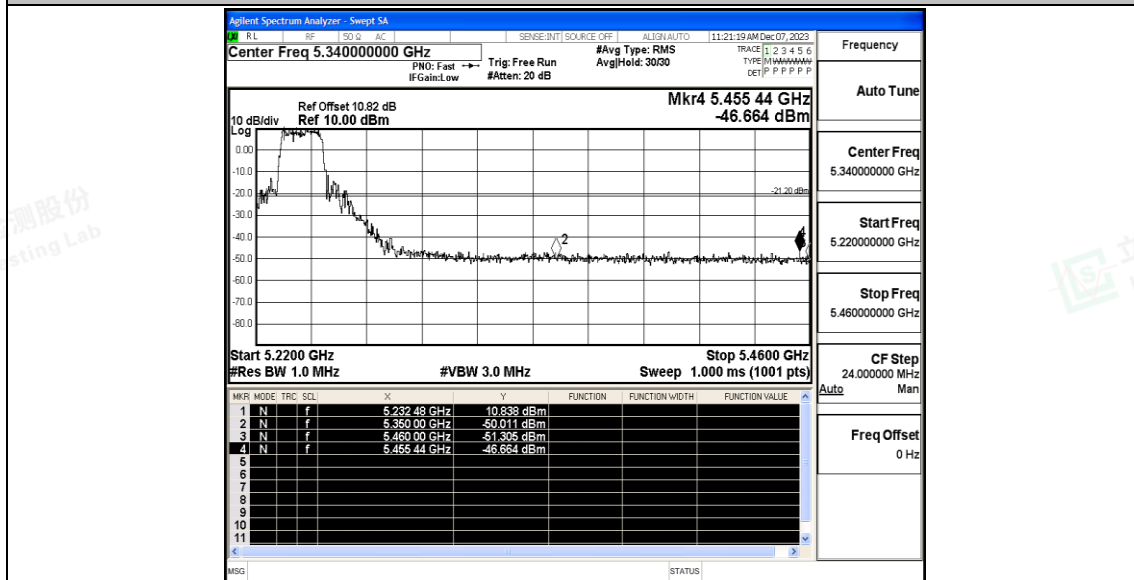
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11AC20SISO_Ant_High_5240_Peak



11AC40SISO_Ant_Low_5190_AV

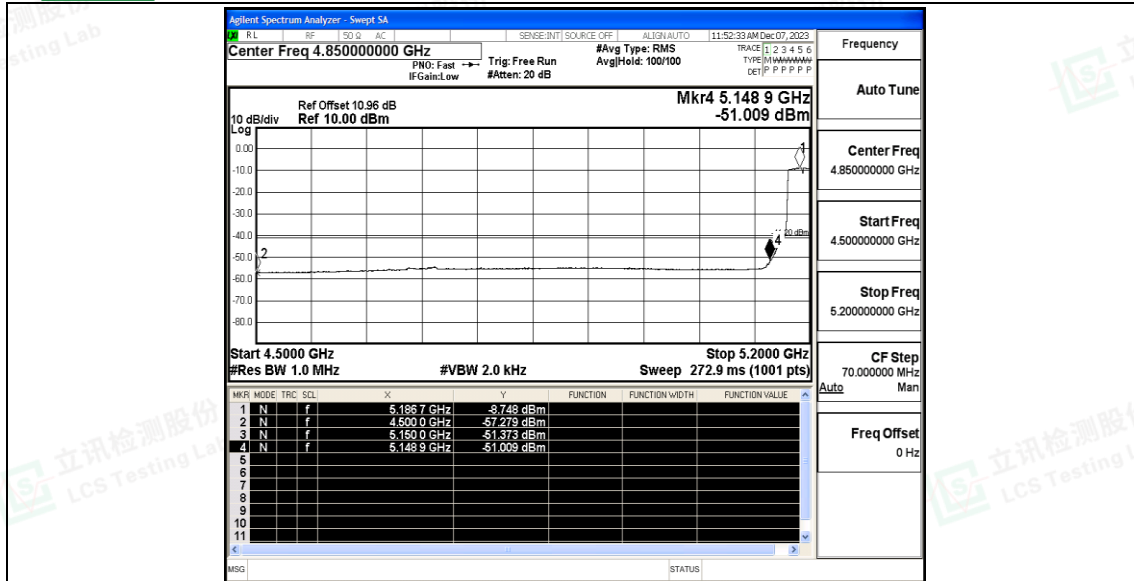


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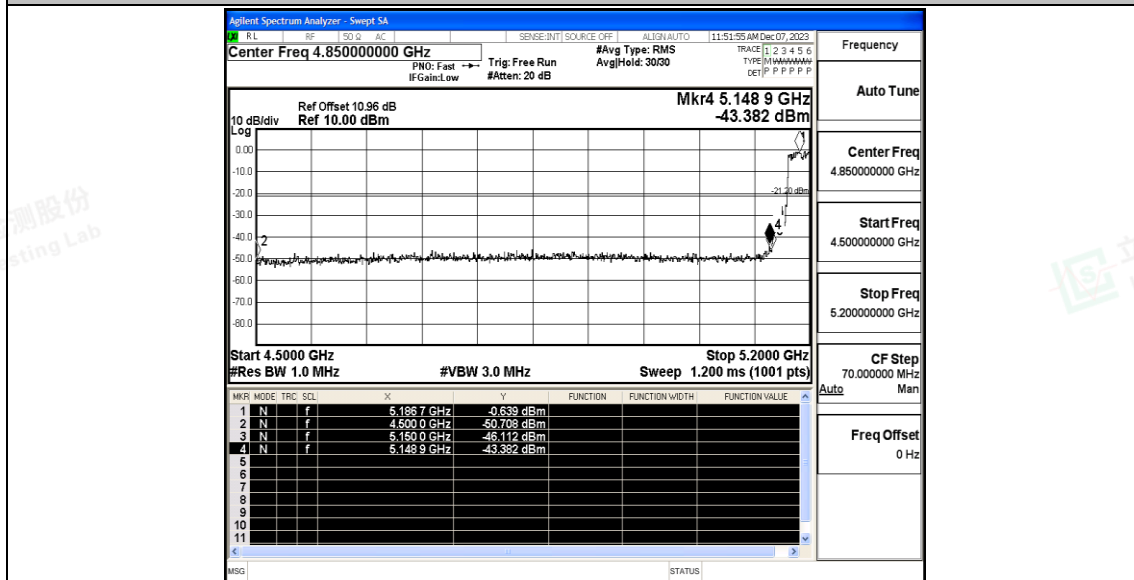
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant_Low_5190_Peak



11AC40SISO_Ant_High_5230_AV

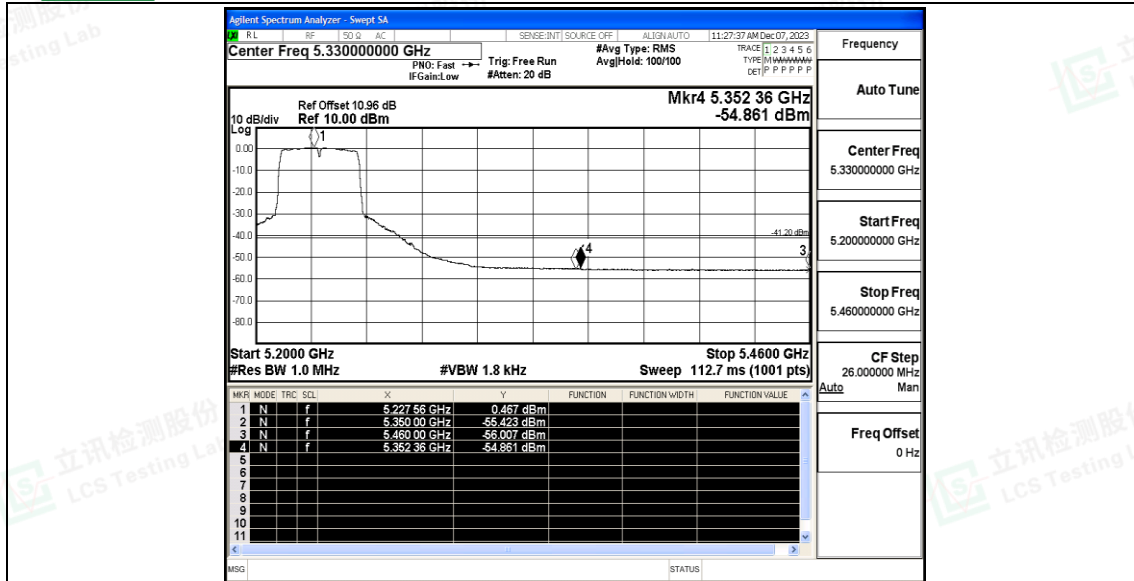


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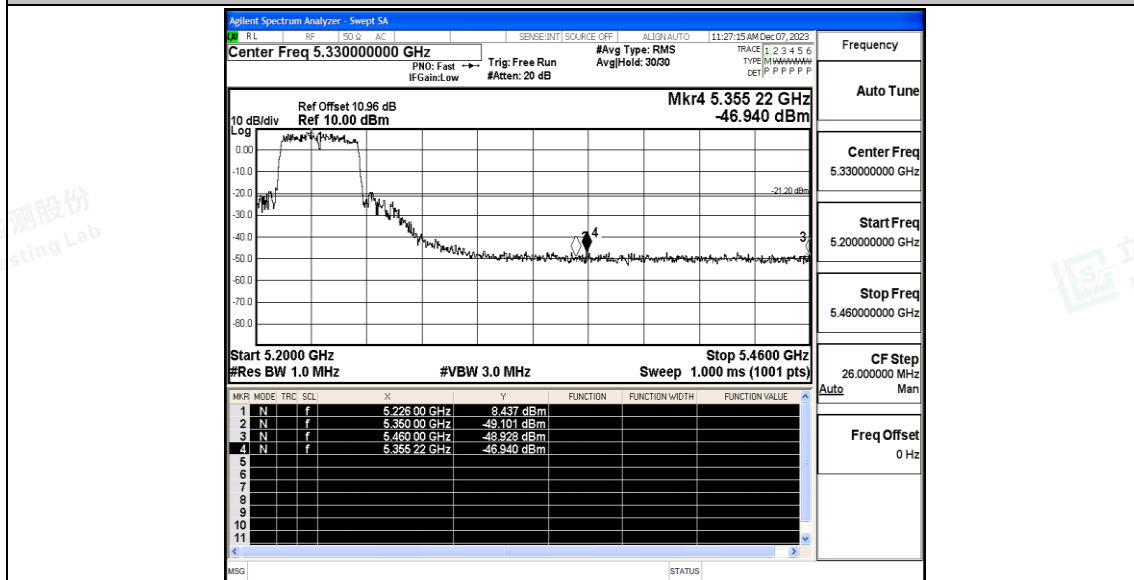
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant_High_5230_Peak



11AC80SISO_Ant_Low_5210_AV

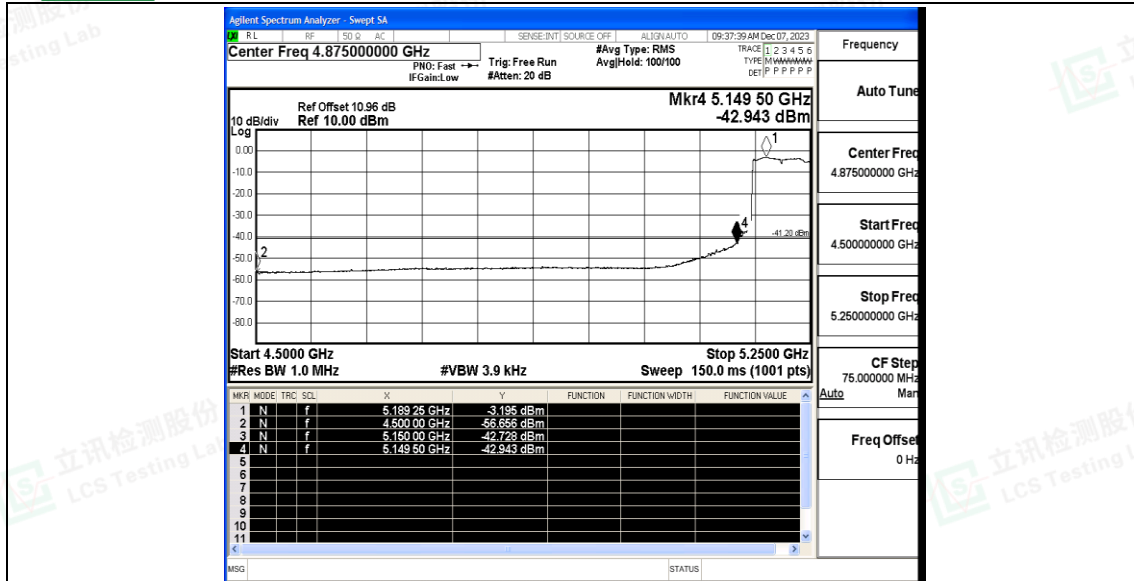


Shenzhen LCS Compliance Testing Laboratory Ltd.

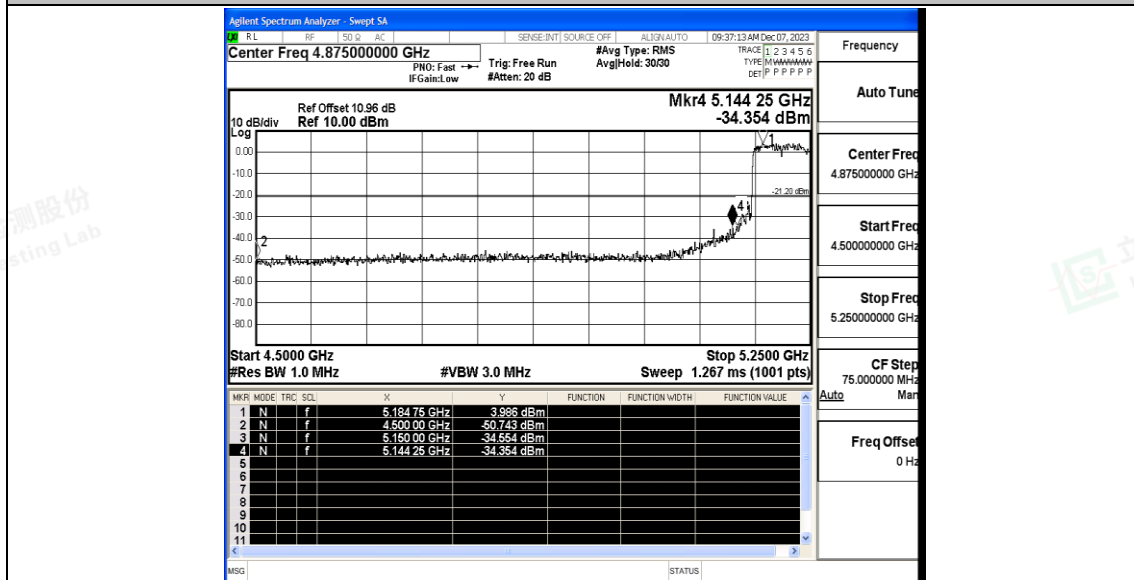
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant_Low_5210_Peak



11AC80SISO_Ant_High_5210_AV

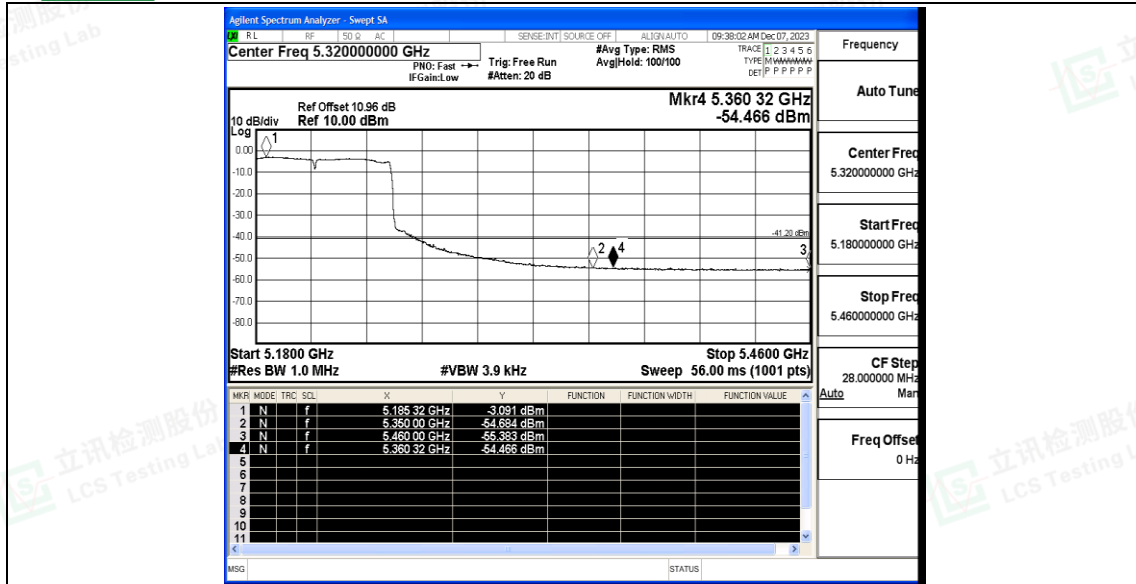


Shenzhen LCS Compliance Testing Laboratory Ltd.

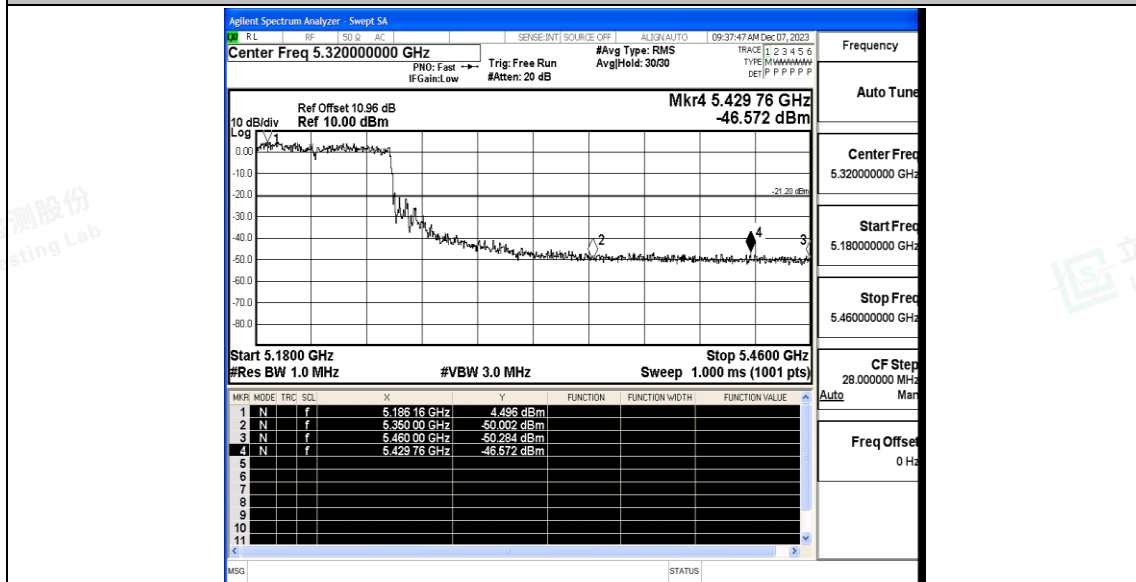
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11AC80SISO_Ant_High_5210_Peak



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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5220	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
11N40SI SO	Ant	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	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	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant	5180	NV	-30	-20000.00	-3.861004	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5220	NV	-30	-20000.00	-3.831418	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.831418	20	PASS



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			NV	0	0.00	0.000000	20	PASS			
			NV	10	-20000.00	-3.831418	20	PASS			
			NV	20	0.00	0.000000	20	PASS			
			NV	30	-20000.00	-3.831418	20	PASS			
			NV	40	-20000.00	-3.831418	20	PASS			
			NV	50	-40000.00	-7.662835	20	PASS			
		5240	NV	-30	0.00	0.000000	20	PASS			
			NV	-20	0.00	0.000000	20	PASS			
			NV	-10	-40000.00	-7.633588	20	PASS			
			NV	0	-40000.00	-7.633588	20	PASS			
			NV	10	-20000.00	-3.816794	20	PASS			
			NV	20	-20000.00	-3.816794	20	PASS			
			NV	30	-20000.00	-3.816794	20	PASS			
			NV	40	-20000.00	-3.816794	20	PASS			
			NV	50	-20000.00	-3.816794	20	PASS			
			11N40SI SO	Ant	5190	NV	-30	0.00	0.000000	20	PASS
						NV	-20	0.00	0.000000	20	PASS
						NV	-10	0.00	0.000000	20	PASS
NV	0	-40000.00				-7.707129	20	PASS			
NV	10	0.00				0.000000	20	PASS			
NV	20	0.00				0.000000	20	PASS			
NV	30	0.00				0.000000	20	PASS			
NV	40	-40000.00				-7.707129	20	PASS			
NV	50	-40000.00				-7.707129	20	PASS			
5230	NV	-30			0.00	0.000000	20	PASS			
	NV	-20			0.00	0.000000	20	PASS			
	NV	-10			-40000.00	-7.648184	20	PASS			
	NV	0			0.00	0.000000	20	PASS			
	NV	10			0.00	0.000000	20	PASS			
	NV	20			-40000.00	-7.648184	20	PASS			
	NV	30			0.00	0.000000	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	-80000.00	-15.355086	20	PASS			
			NV	-10	0.00	0.000000	20	PASS			
			NV	0	80000.00	15.355086	20	PASS			
			NV	10	0.00	0.000000	20	PASS			
			NV	20	-80000.00	-15.355086	20	PASS			
			NV	30	-80000.00	-15.355086	20	PASS			



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



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D.6 Duty Cycle

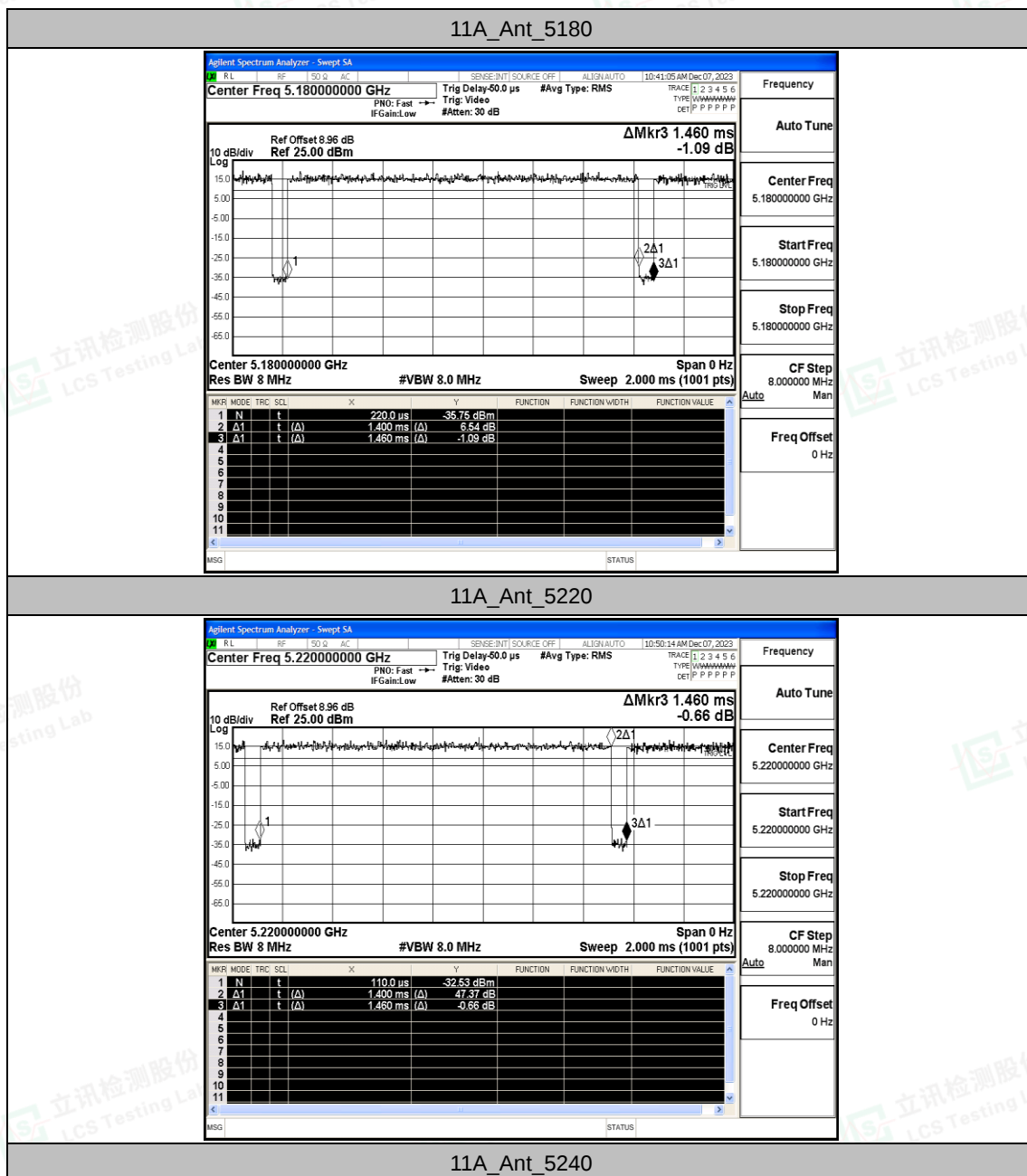
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant	5180	1.40	1.46	95.89
		5220	1.40	1.46	95.89
		5240	1.39	1.46	95.21
11N20SISO	Ant	5180	1.18	1.25	94.40
		5220	1.18	1.25	94.40
		5240	1.18	1.24	95.16
11N40SISO	Ant	5190	0.59	0.65	90.77
		5230	0.58	0.65	89.23
11AC20SISO	Ant	5180	1.19	1.25	95.20
		5220	1.19	1.25	95.20
		5240	1.18	1.25	94.40
11AC40SISO	Ant	5190	0.59	0.66	89.39
		5230	0.60	0.66	90.91
11AC80SISO	Ant	5210	0.30	0.36	83.33





Test Graphs

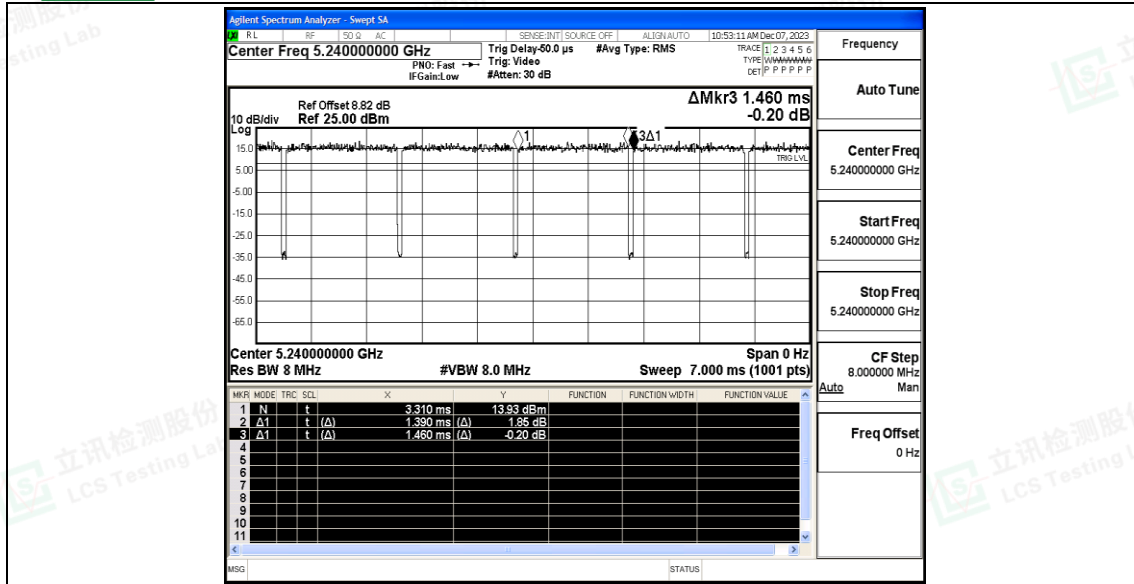


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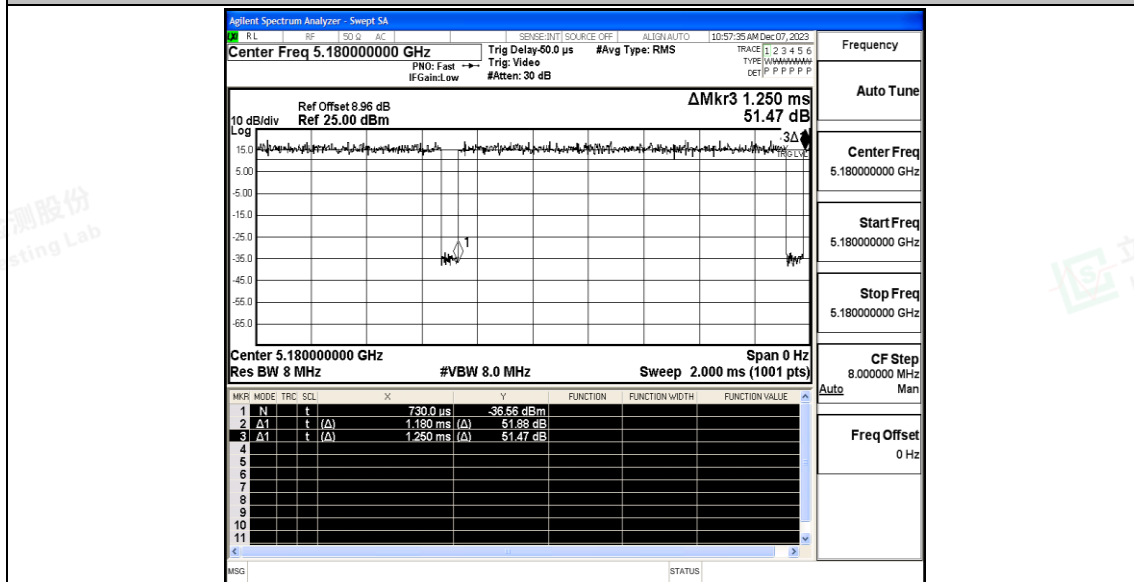
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_5180



11N20SISO_Ant_5220

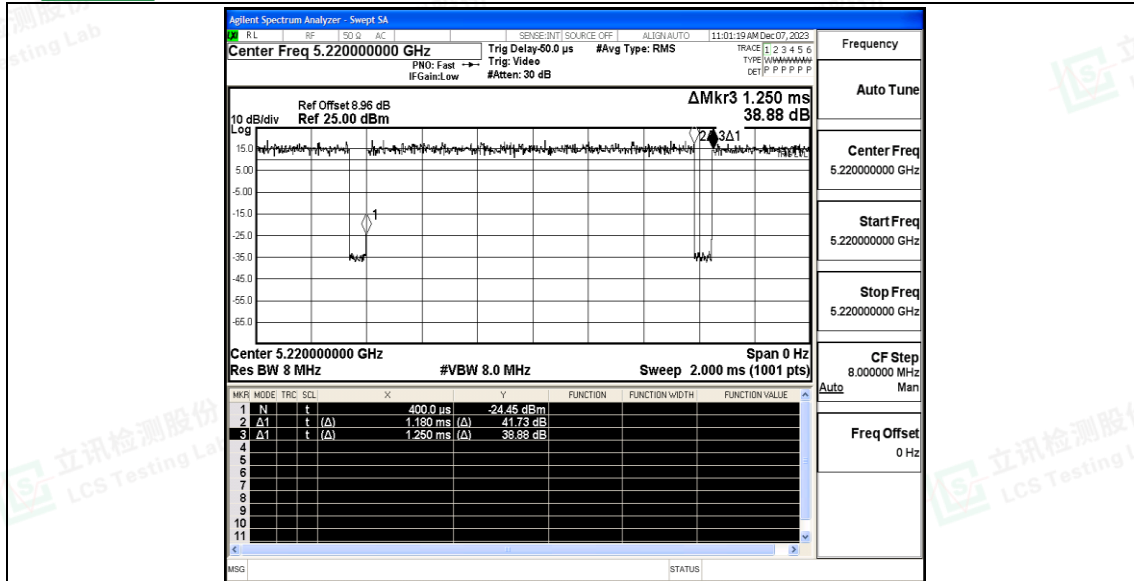


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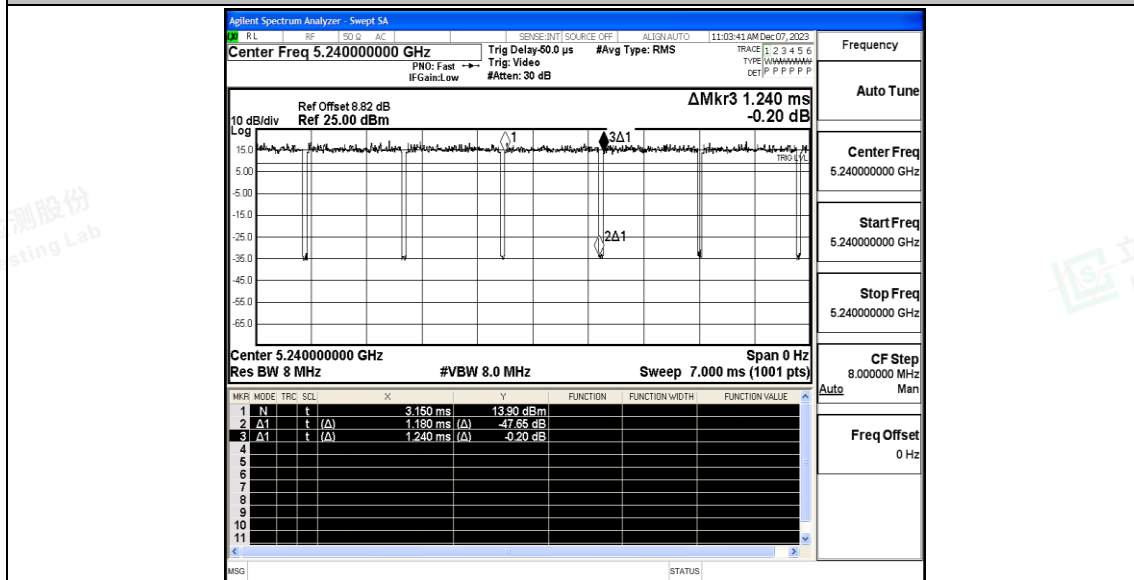
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_5240



11N40SISO_Ant_5190

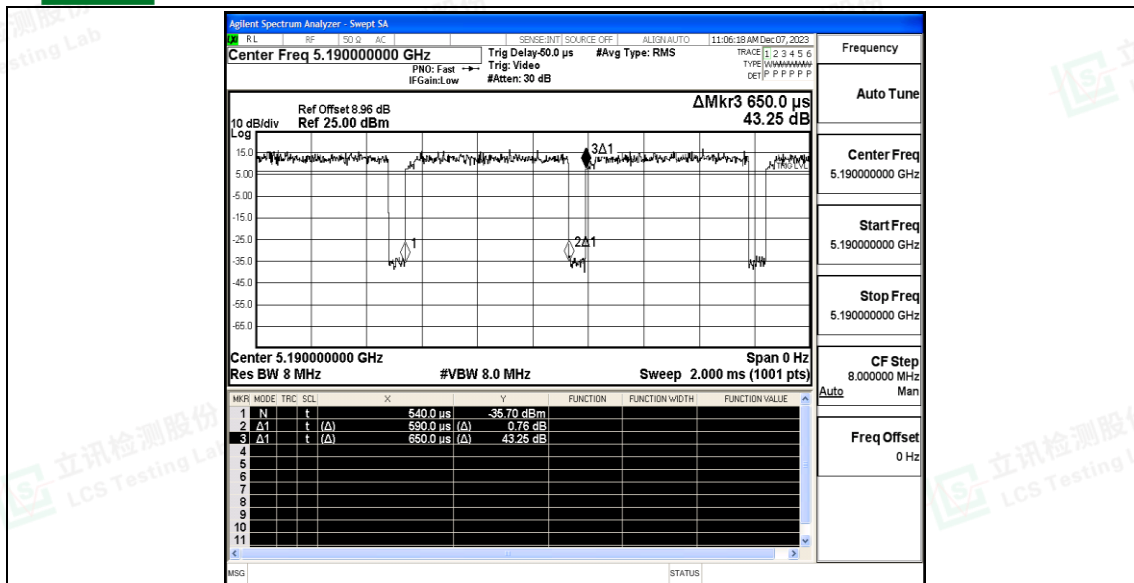


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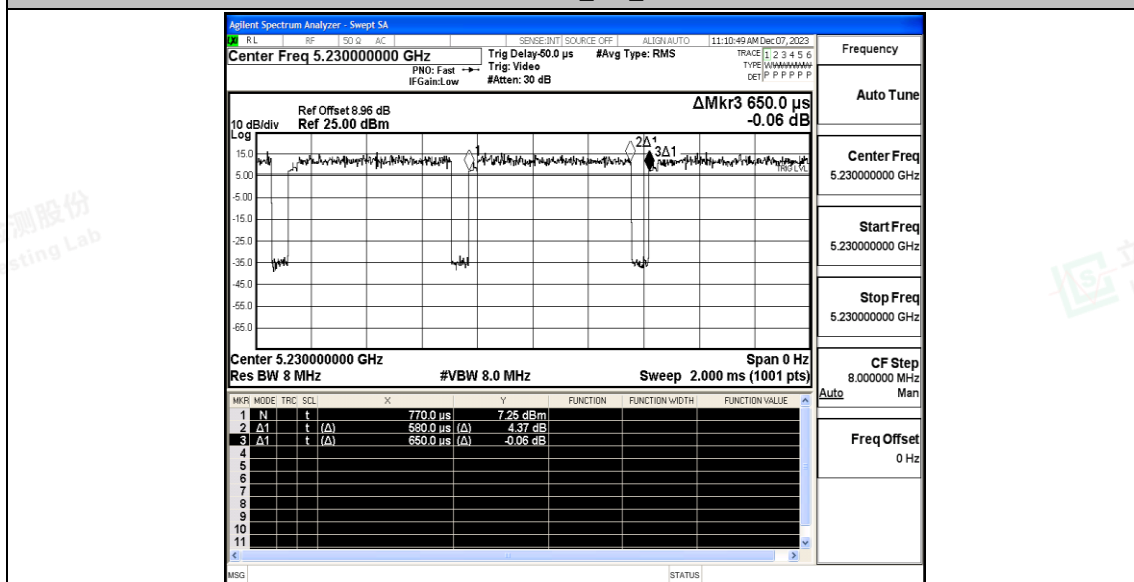
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

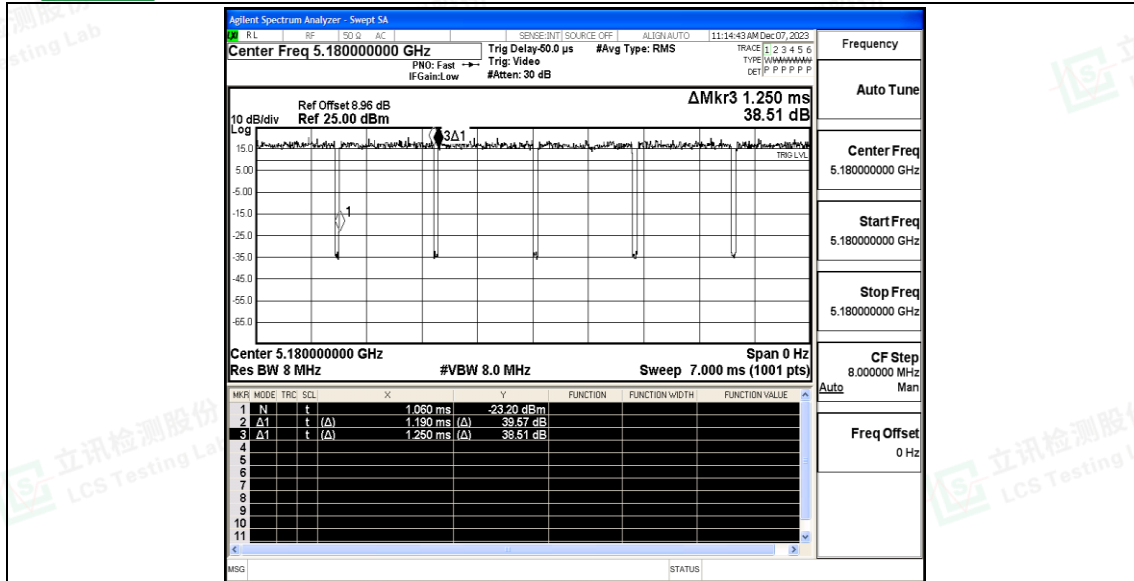


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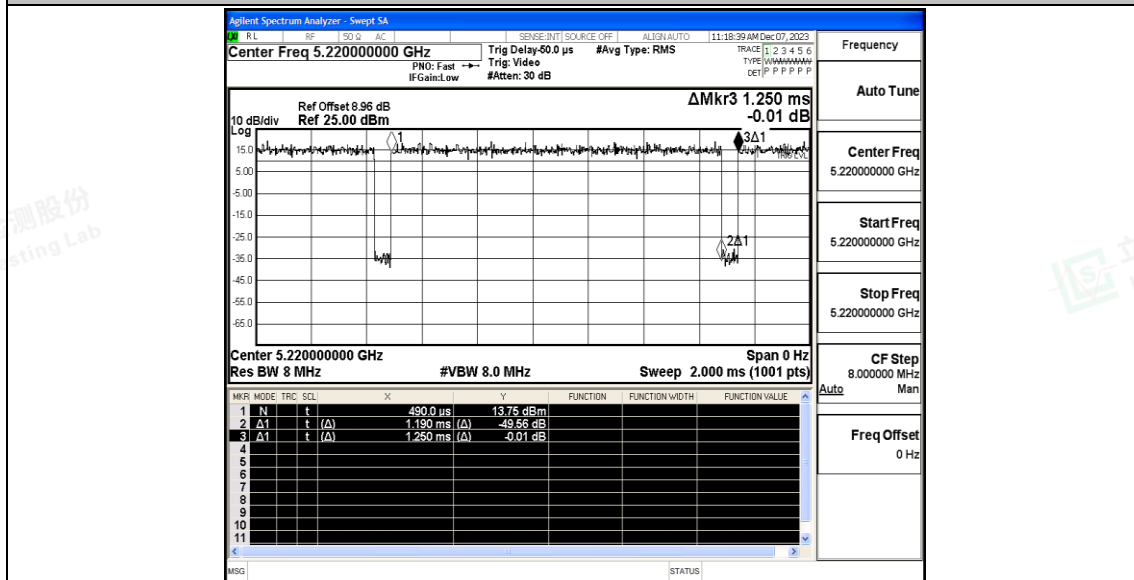
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

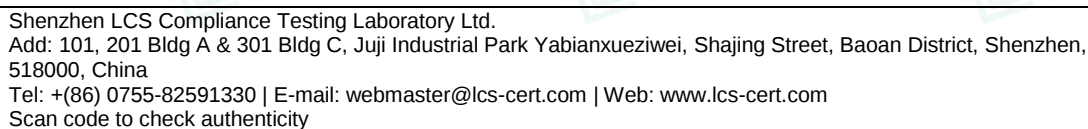
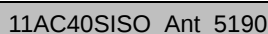


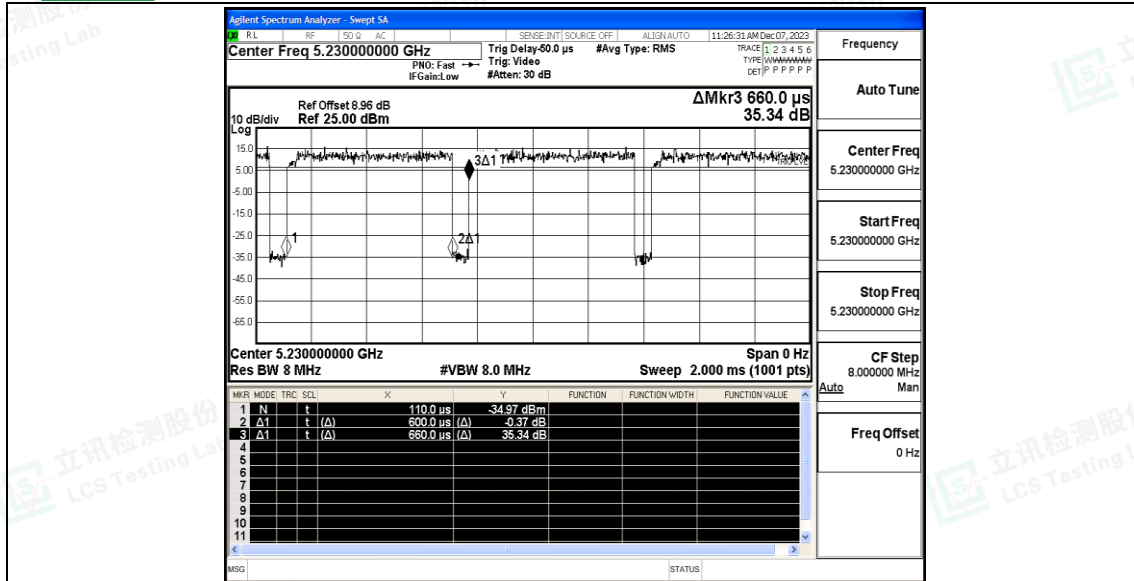
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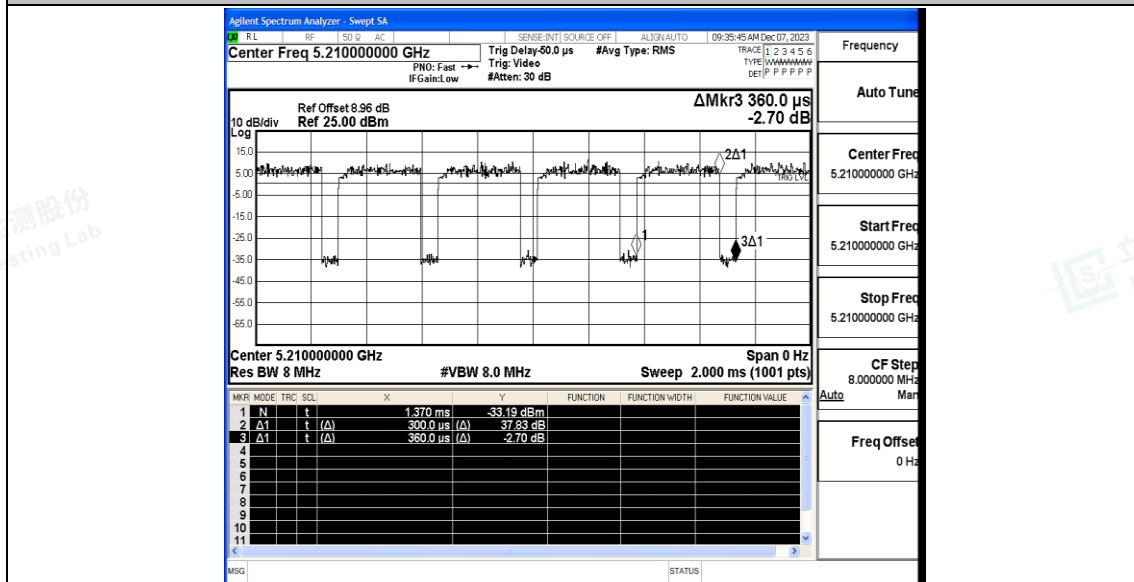
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11AC80SISO_Ant_5210



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