



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Tablet

Test Model: G12

Environmental Conditions

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





D.1 Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.000	5170.040	5190.040	---	---
		5220	20.360	5209.640	5230.000	---	---
		5240	24.880	5228.480	5253.360	---	---
11N20SISO	Ant1	5180	24.440	5167.320	5191.760	---	---
		5220	24.720	5207.360	5232.080	---	---
		5240	20.320	5229.840	5250.160	---	---
11N40SISO	Ant1	5190	48.480	5166.160	5214.640	---	---
		5230	53.920	5201.600	5255.520	---	---
11AC20SISO	Ant1	5180	24.960	5169.280	5194.240	---	---
		5220	24.360	5206.840	5231.200	---	---
		5240	23.560	5227.920	5251.480	---	---
11AC40SISO	Ant1	5190	47.760	5165.280	5213.040	---	---
		5230	48.240	5207.920	5256.160	---	---



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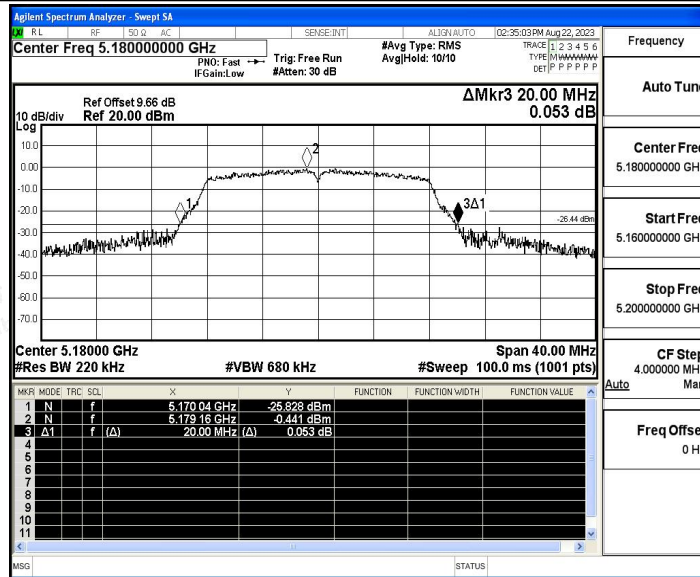
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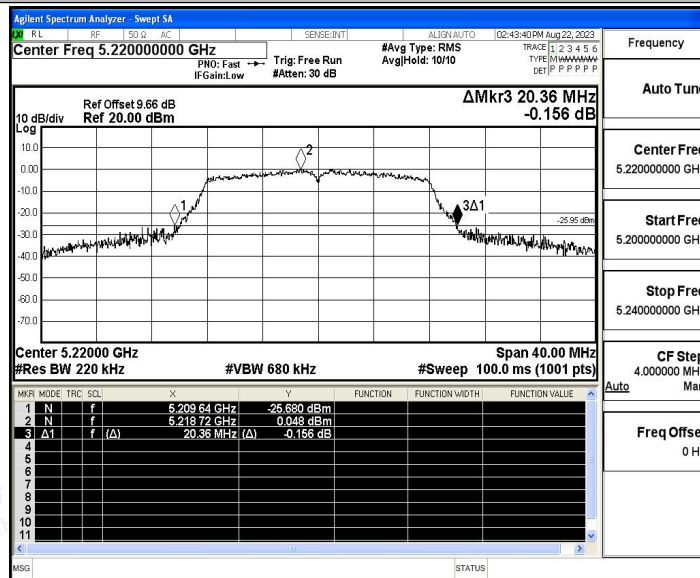


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

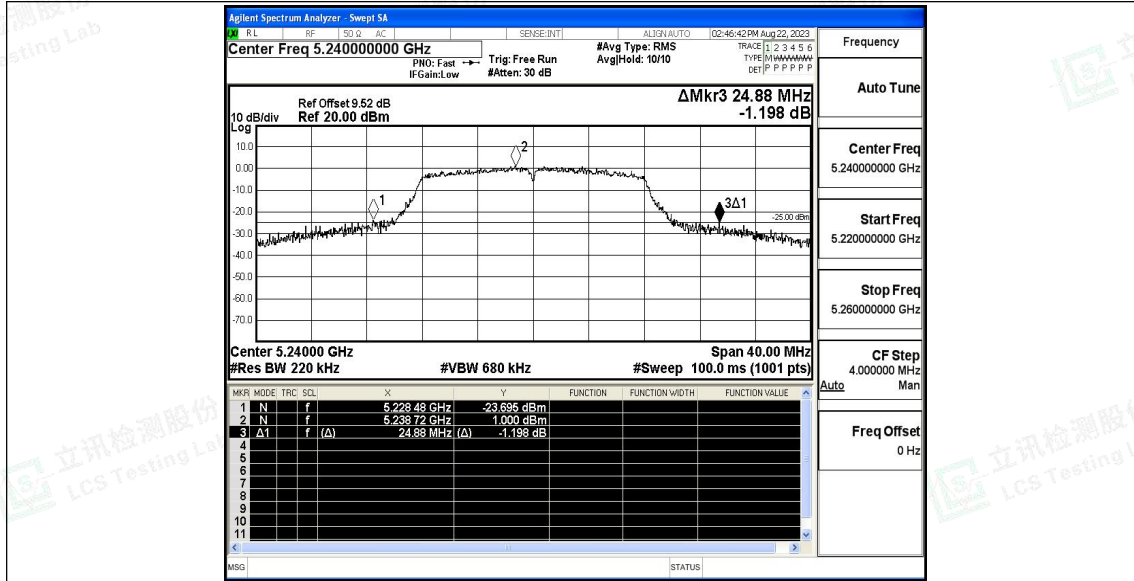


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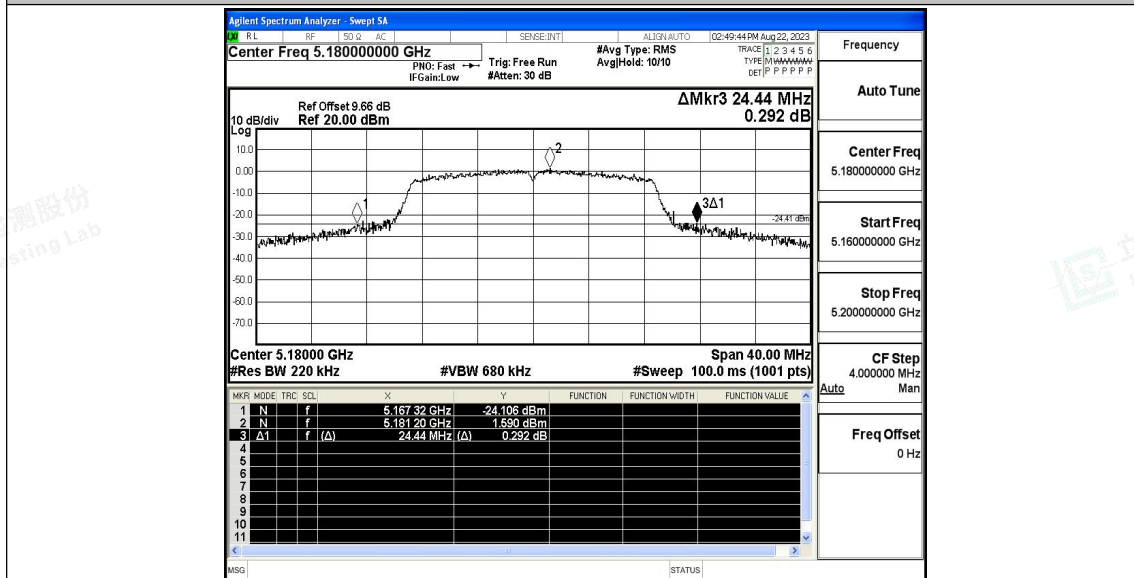
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

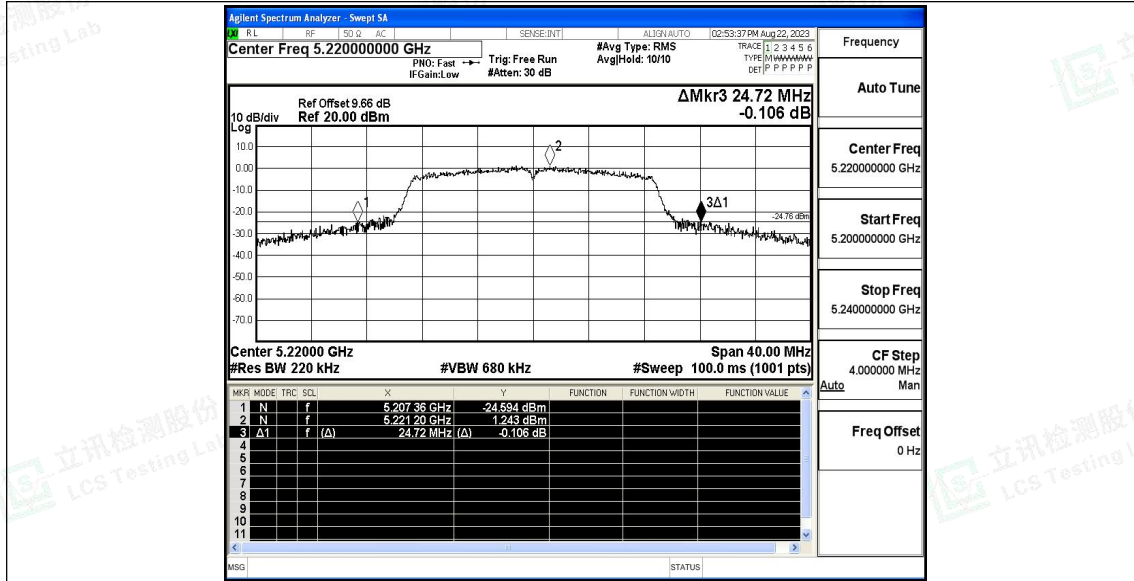


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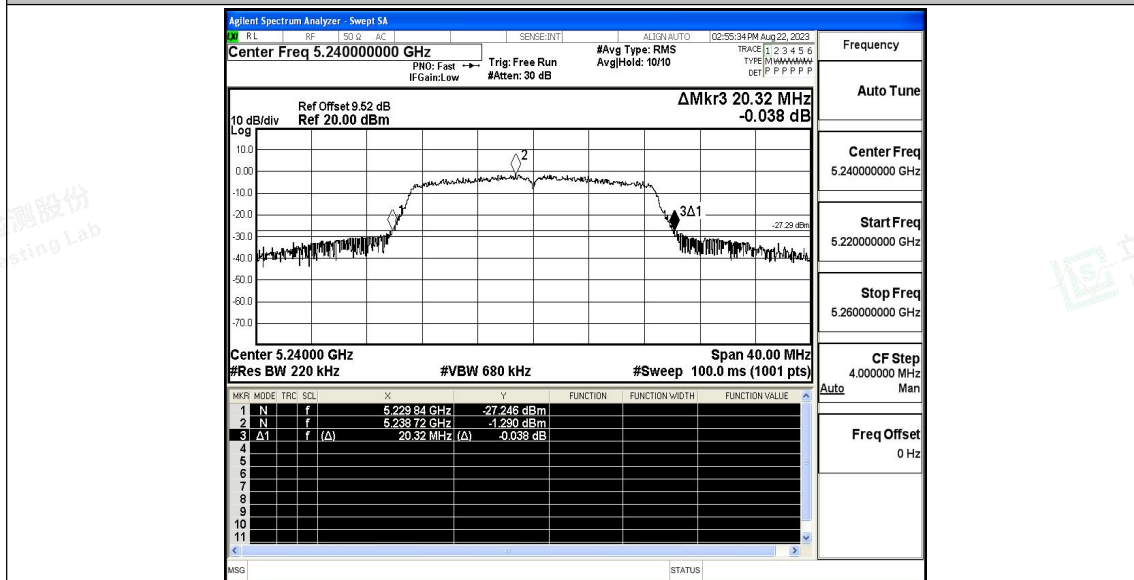
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

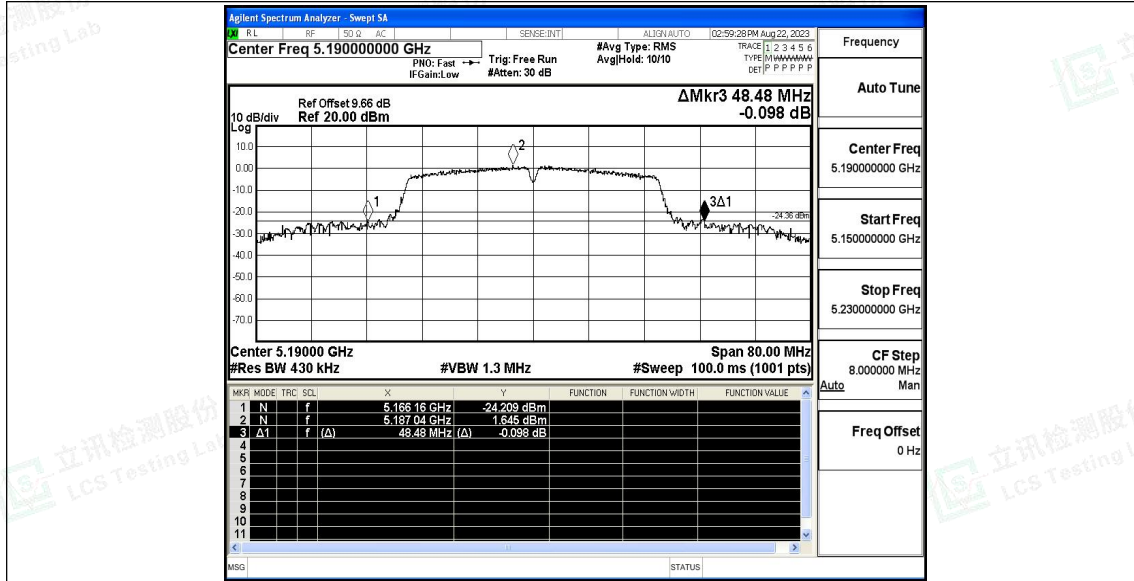


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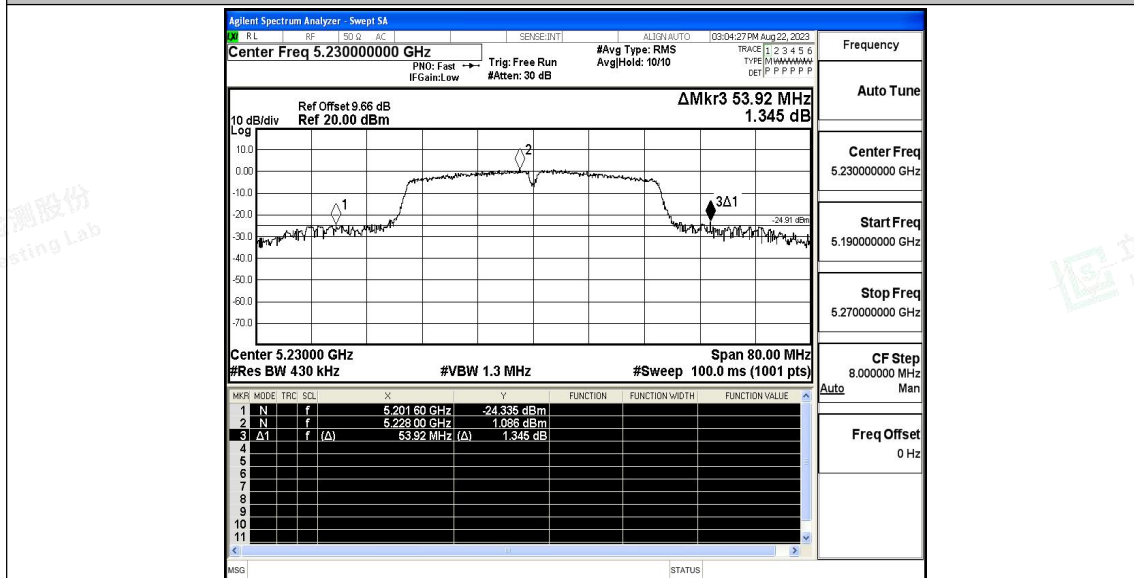
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

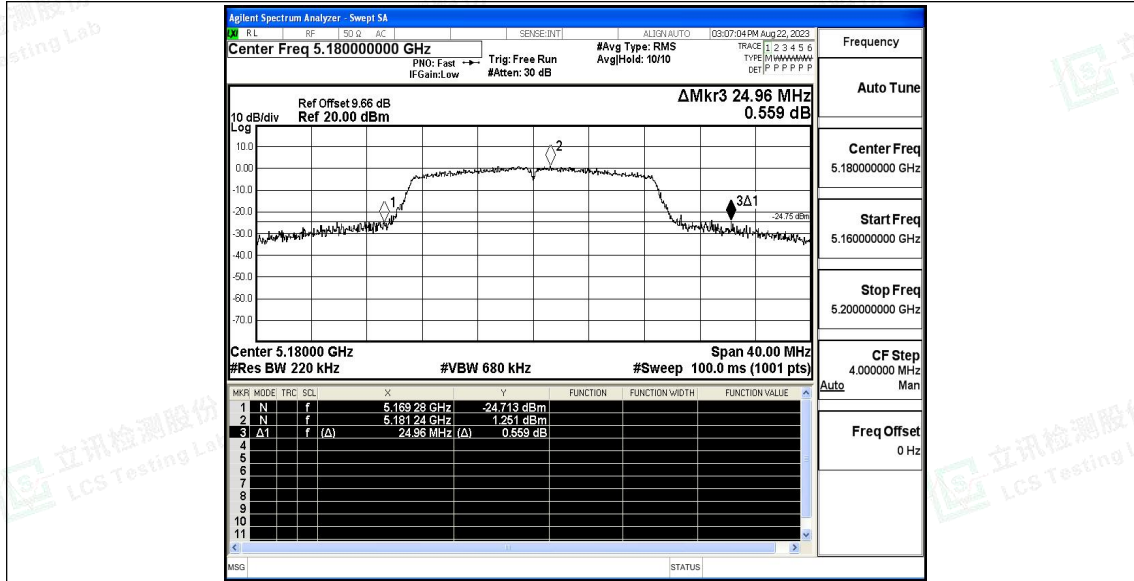


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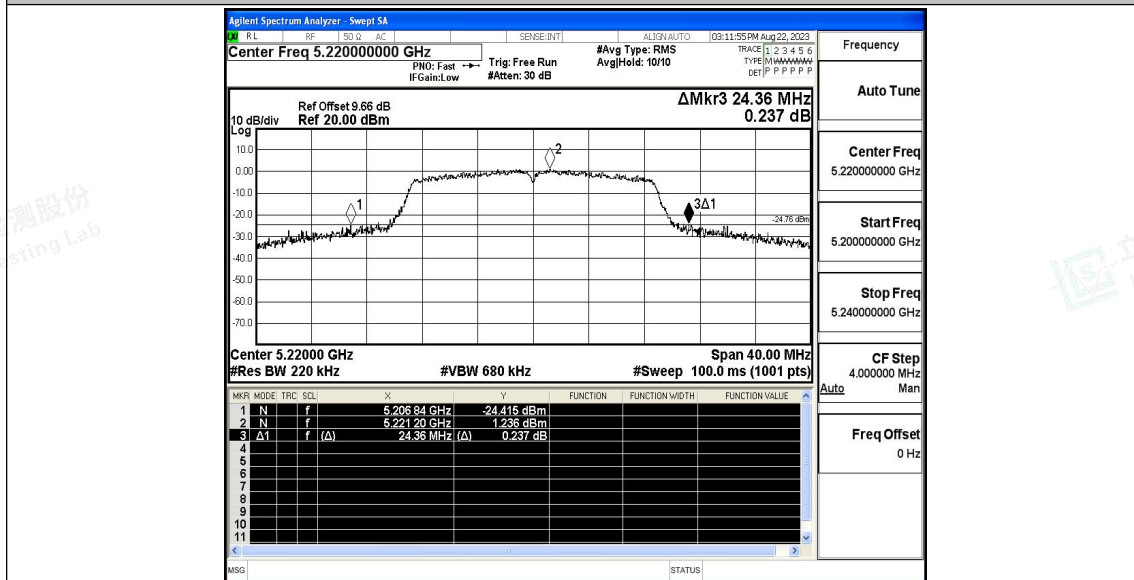
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

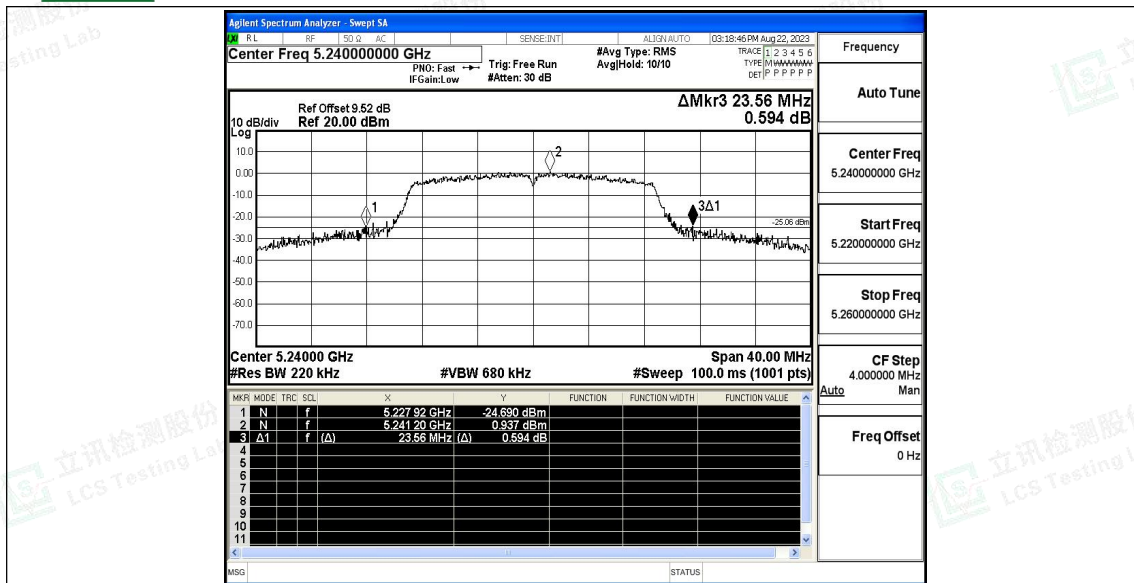


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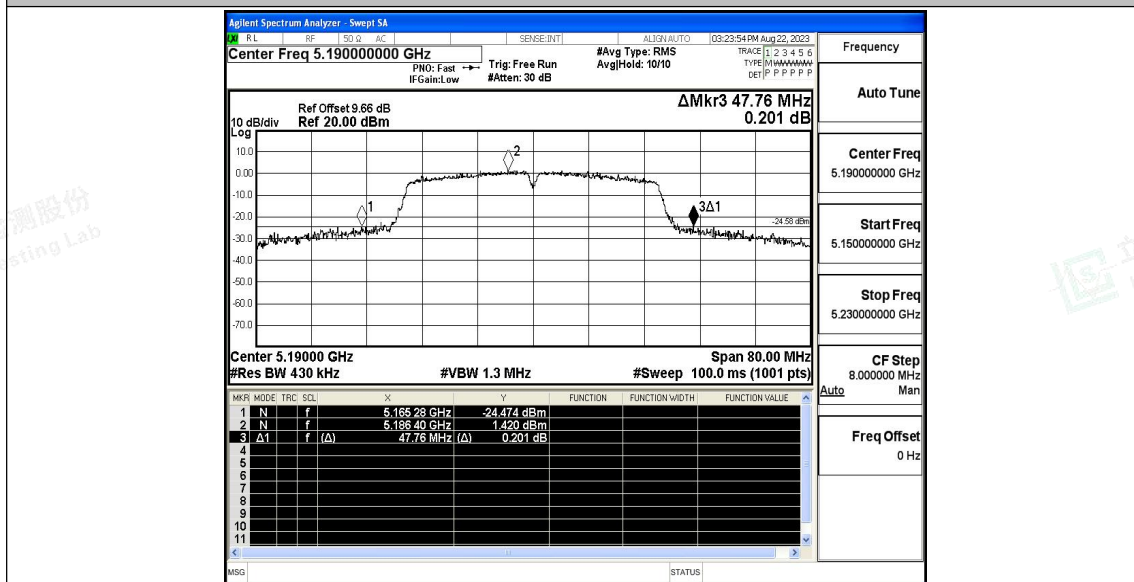
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

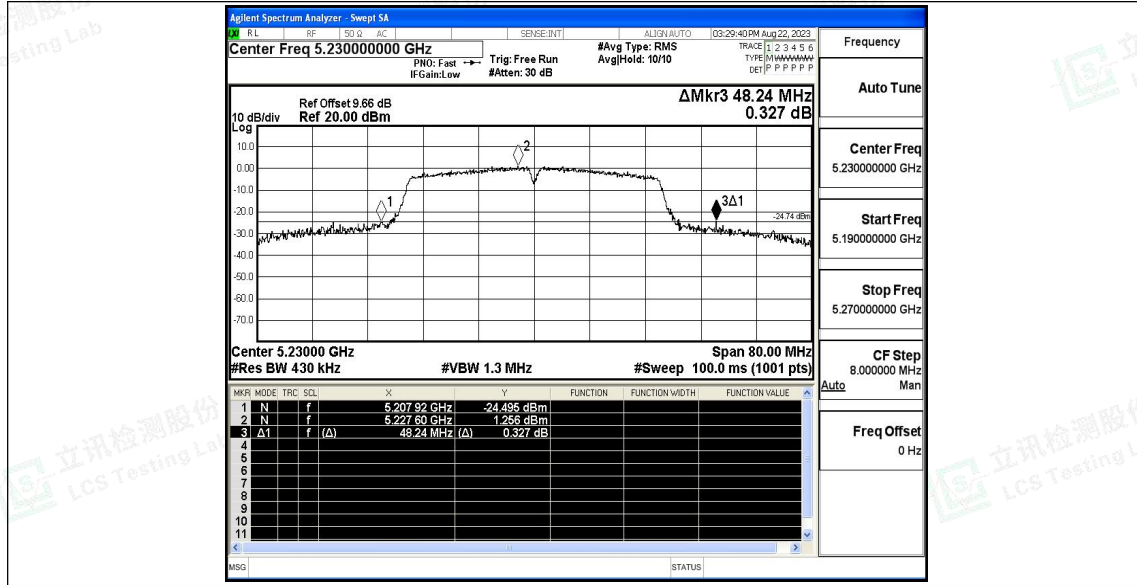


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D.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	10.33	≤ 23.98	PASS
		5220	9.51	≤ 23.98	PASS
		5240	10.39	≤ 23.98	PASS
11N20SISO	Ant1	5180	10.86	≤ 23.98	PASS
		5220	10.45	≤ 23.98	PASS
		5240	10.24	≤ 23.98	PASS
11N40SISO	Ant1	5190	10.58	≤ 23.98	PASS
		5230	10.41	≤ 23.98	PASS
11AC20SISO	Ant1	5180	10.86	≤ 23.98	PASS
		5220	10.50	≤ 23.98	PASS
		5240	10.16	≤ 23.98	PASS
11AC40SISO	Ant1	5190	10.53	≤ 23.98	PASS
		5230	10.37	≤ 23.98	PASS

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



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D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.09	≤11.00	PASS
		5220	-0.92	≤11.00	PASS
		5240	-0.04	≤11.00	PASS
11N20SISO	Ant1	5180	0.22	≤11.00	PASS
		5220	-0.1	≤11.00	PASS
		5240	-0.45	≤11.00	PASS
11N40SISO	Ant1	5190	-2.95	≤11.00	PASS
		5230	-3.01	≤11.00	PASS
11AC20SISO	Ant1	5180	0.29	≤11.00	PASS
		5220	-0.07	≤11.00	PASS
		5240	-0.45	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.87	≤11.00	PASS
		5230	-3.14	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

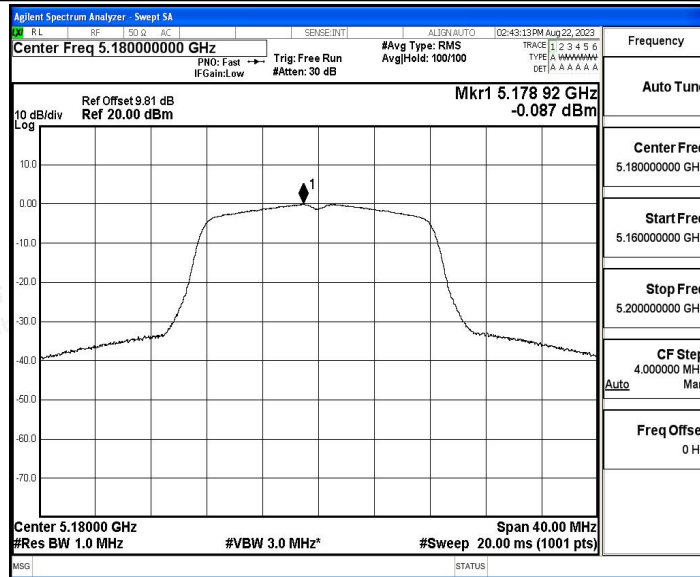
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



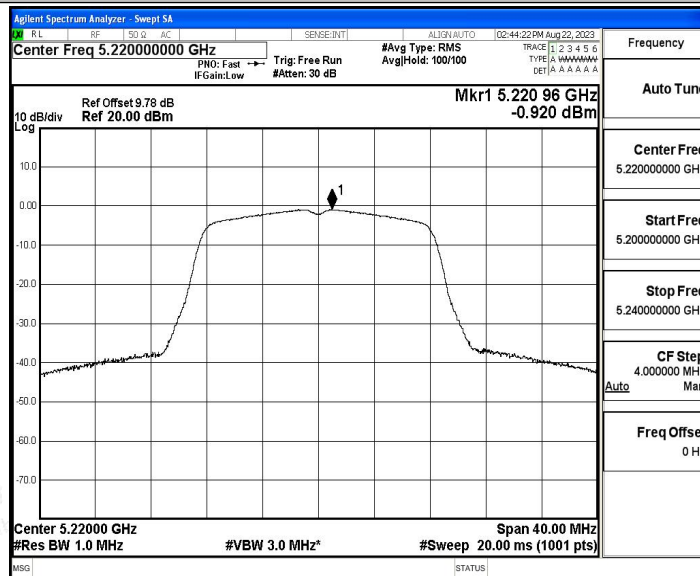


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

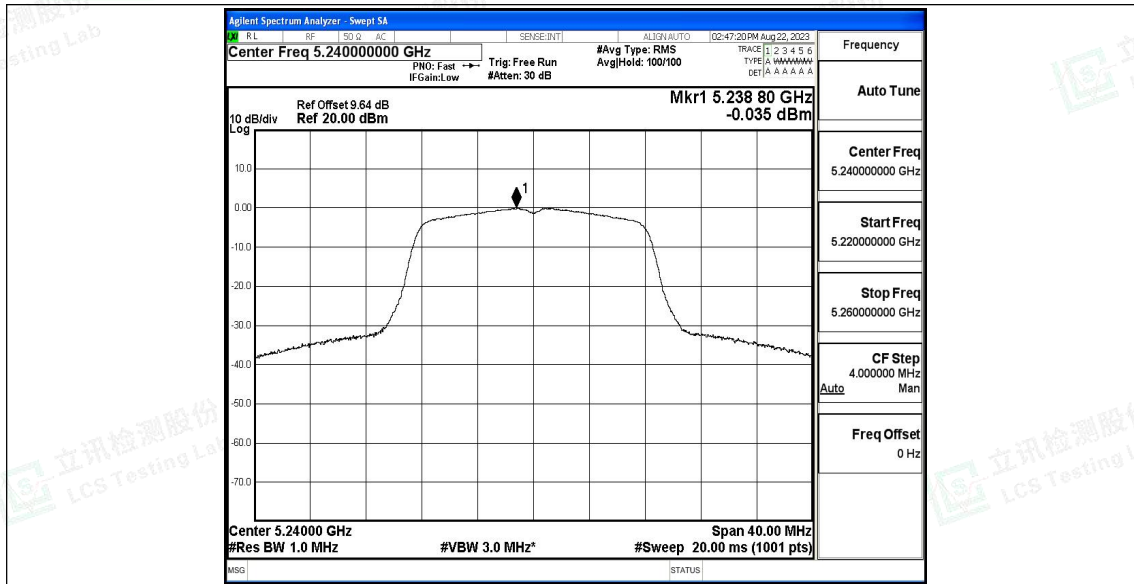


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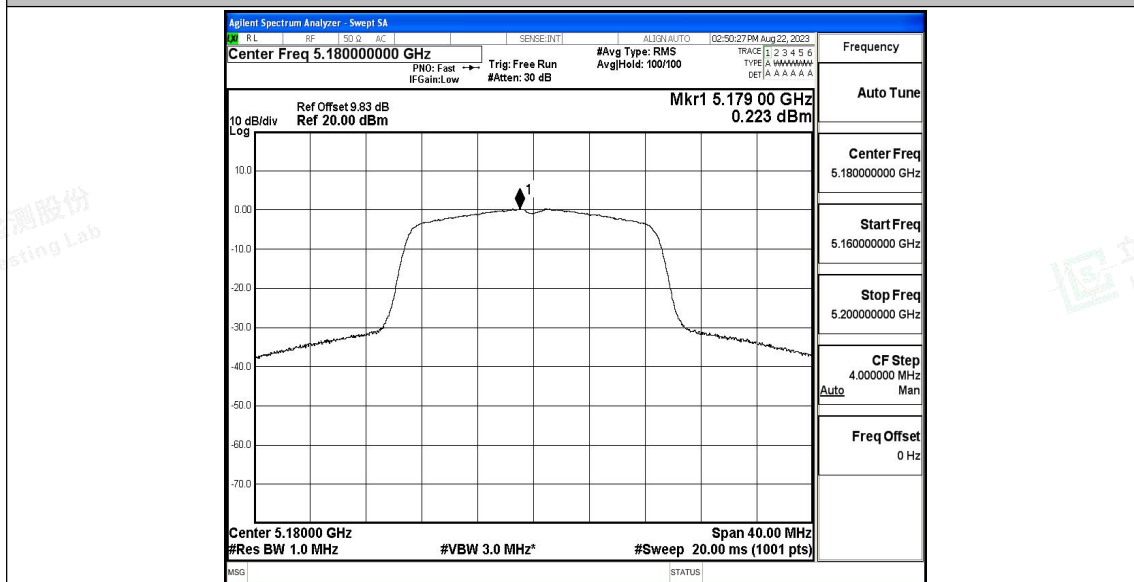
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

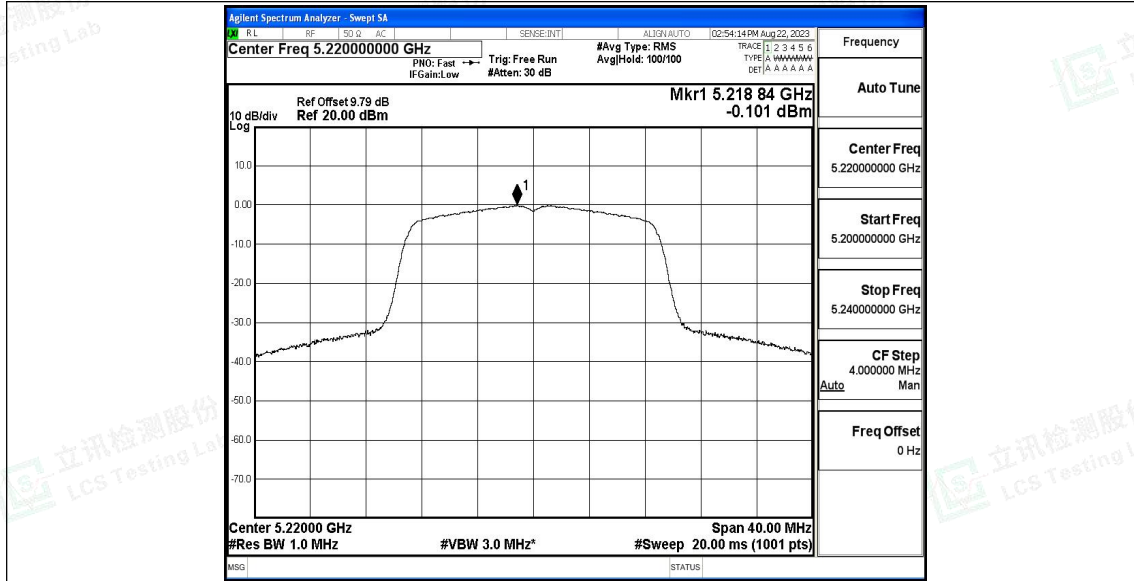


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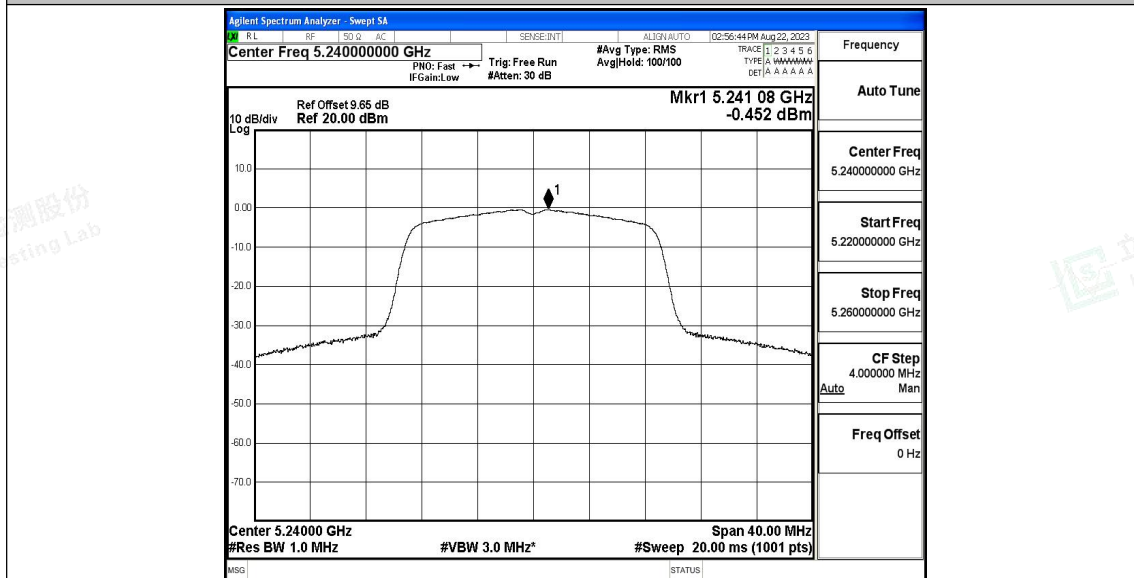
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

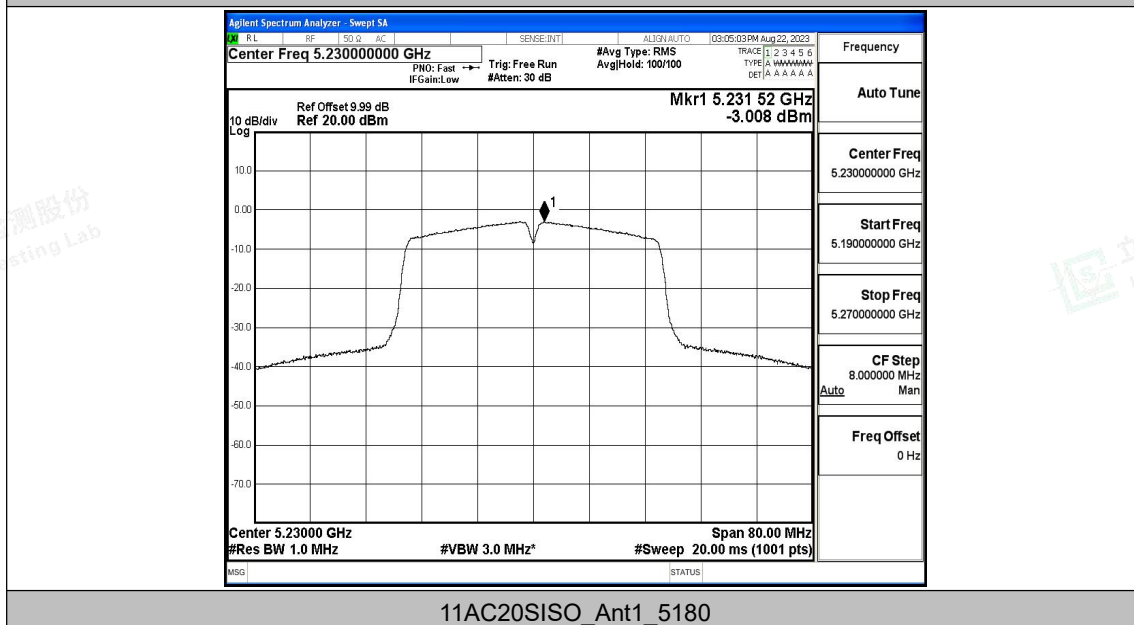
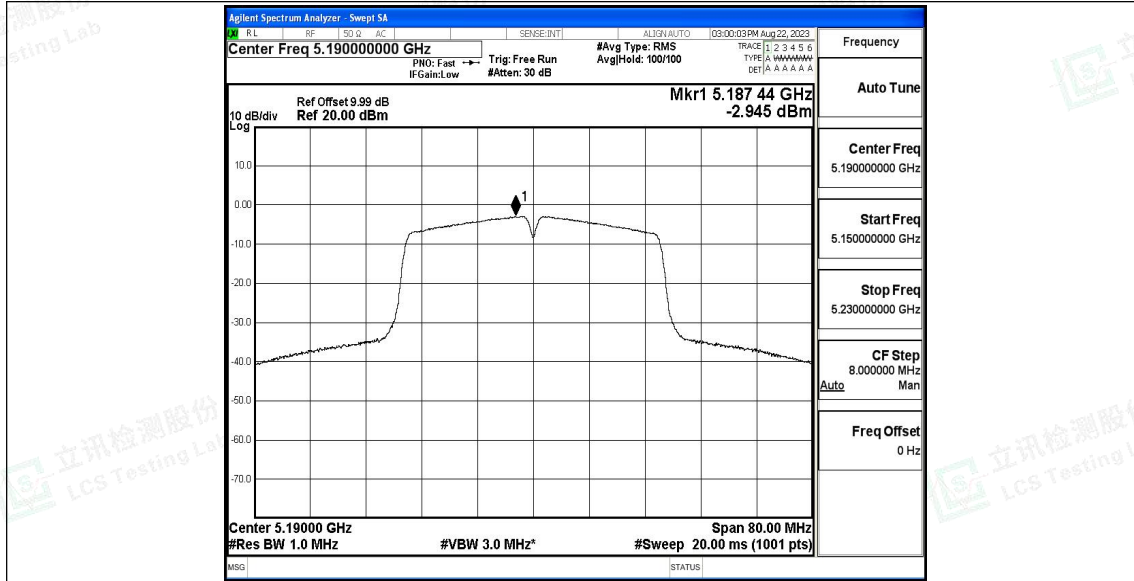


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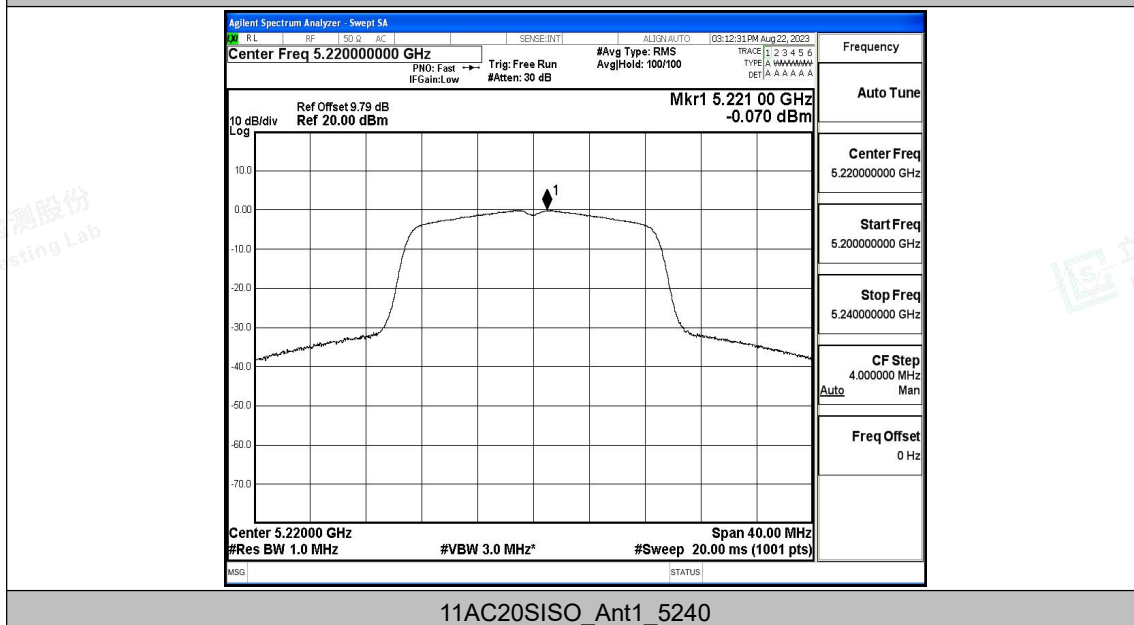
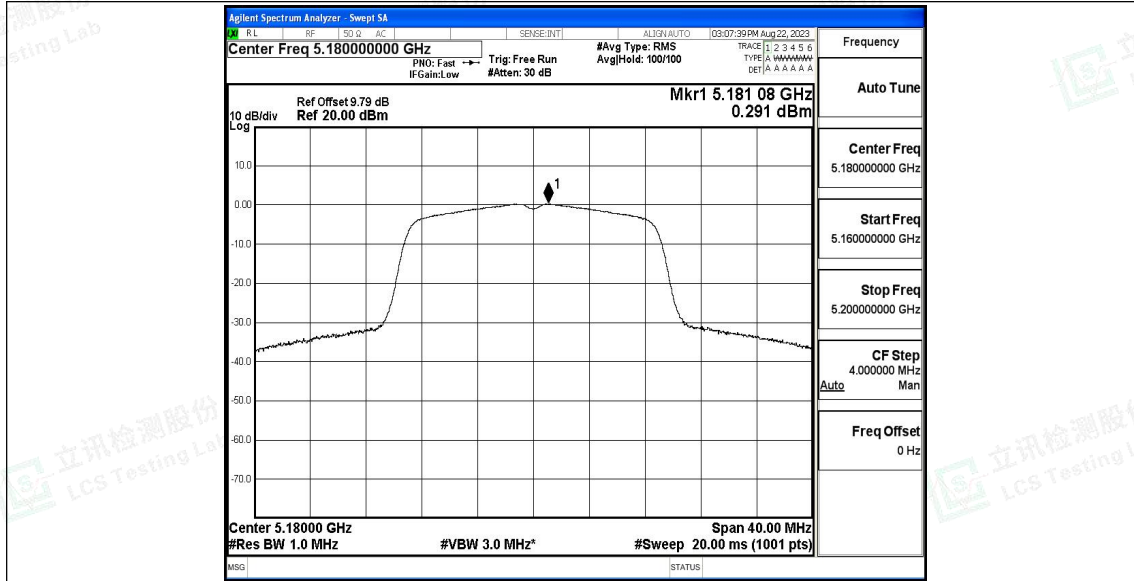


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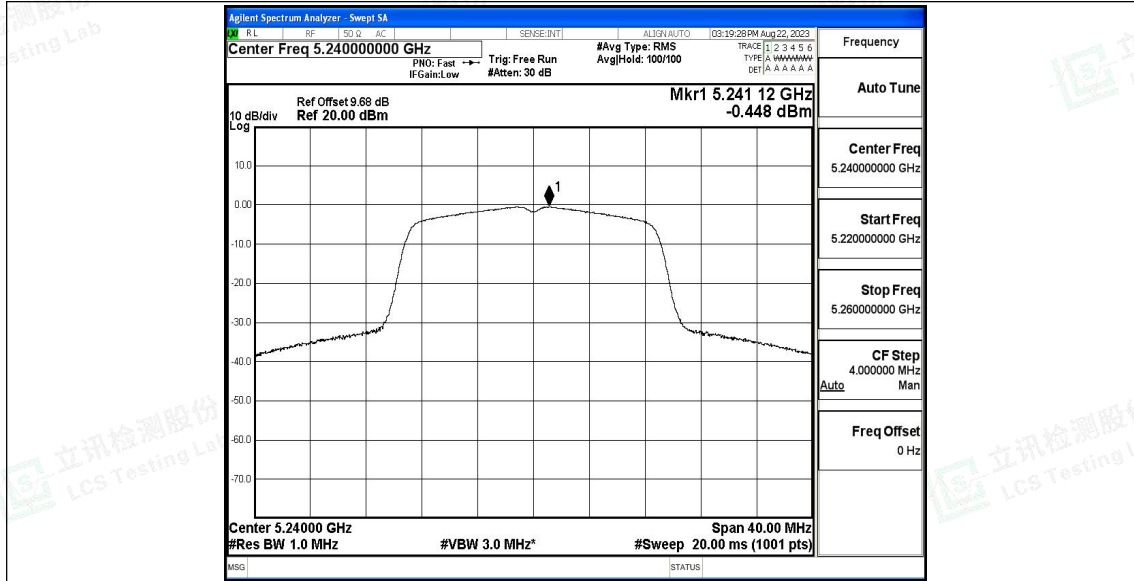


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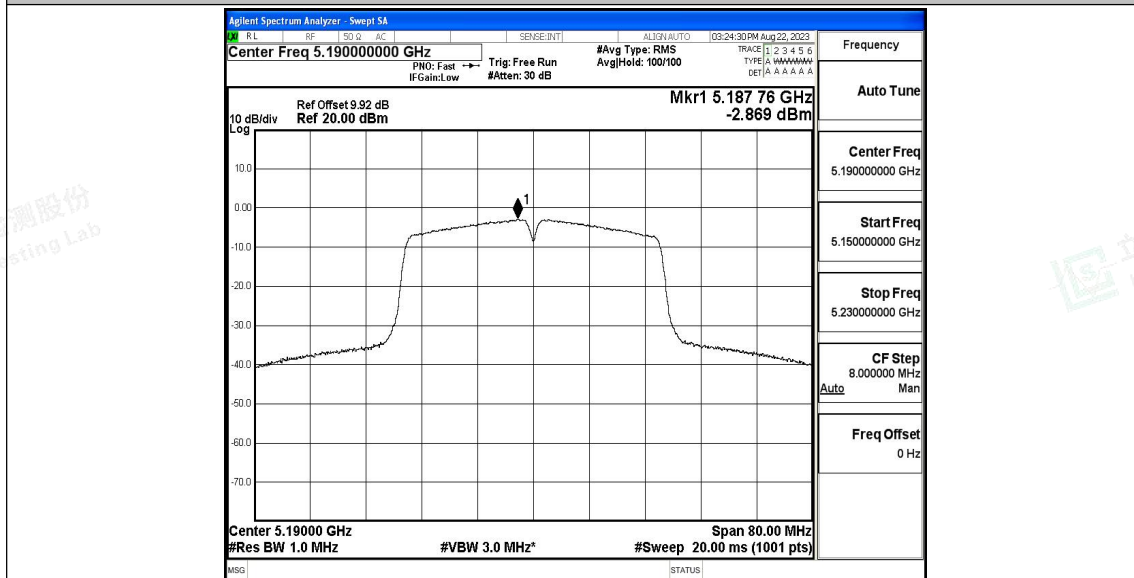
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

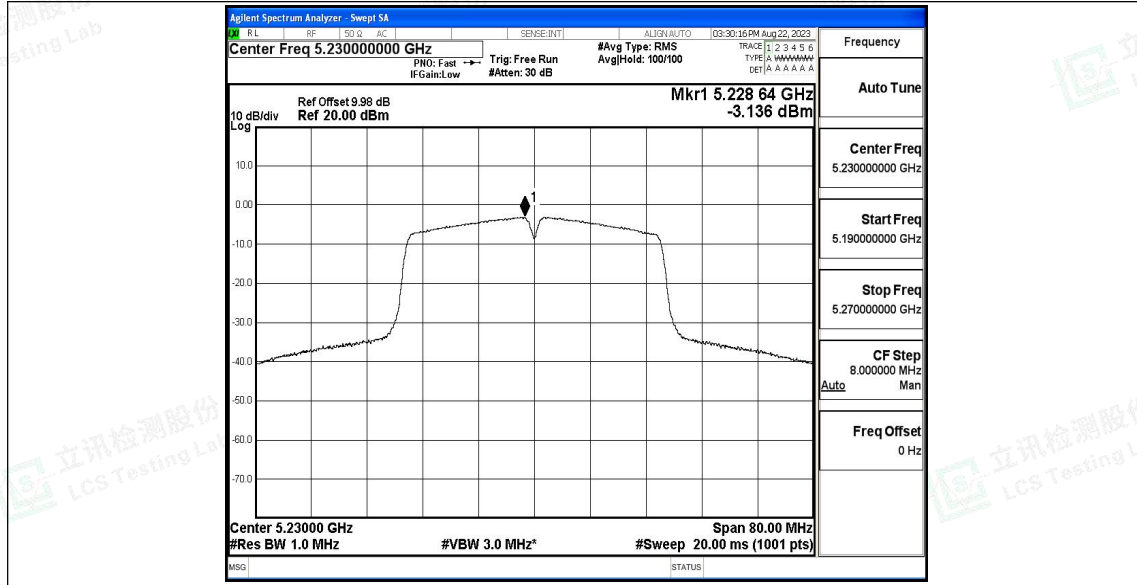


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D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-57.96	≤-41.20	37.24	≤54	PASS
				AV	5149.600	-48.62	≤-41.20	46.58	≤54	PASS
				AV	5150.000	-47.79	≤-41.20	47.41	≤54	PASS
				Peak	4500.000	-50.24	≤-21.20	44.96	≤74	PASS
				Peak	5147.500	-39.41	≤-21.20	55.79	≤74	PASS
				Peak	5150.000	-43.17	≤-21.20	52.03	≤74	PASS
		High	5240	AV	5350.000	-56.45	≤-41.20	38.75	≤54	PASS
				AV	5406.240	-54.97	≤-41.20	40.23	≤54	PASS
				AV	5460.000	-57.14	≤-41.20	38.06	≤54	PASS
				Peak	5350.000	-50.01	≤-21.20	45.19	≤74	PASS
				Peak	5367.360	-46.36	≤-21.20	48.84	≤74	PASS
				Peak	5460.000	-51.38	≤-21.20	43.82	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-57.91	≤-41.20	37.29	≤54	PASS
				AV	5149.600	-43.7	≤-41.20	51.50	≤54	PASS
				AV	5150.000	-43.32	≤-41.20	51.88	≤54	PASS
				Peak	4500.000	-49.99	≤-21.20	45.21	≤74	PASS
				Peak	5149.600	-35.37	≤-21.20	59.83	≤74	PASS
				Peak	5150.000	-33.16	≤-21.20	62.04	≤74	PASS
		High	5240	AV	5350.000	-56.63	≤-41.20	38.57	≤54	PASS
				AV	5354.400	-56.47	≤-41.20	38.73	≤54	PASS
				AV	5460.000	-57.01	≤-41.20	38.19	≤54	PASS
				Peak	5350.000	-50.47	≤-21.20	44.73	≤74	PASS
				Peak	5455.920	-47.53	≤-21.20	47.67	≤74	PASS
				Peak	5460.000	-51.02	≤-21.20	44.18	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-57.77	≤-41.20	37.43	≤54	PASS
				AV	5149.600	-52.52	≤-41.20	42.68	≤54	PASS
				AV	5150.000	-52.56	≤-41.20	42.64	≤54	PASS
				Peak	4500.000	-52.91	≤-21.20	42.29	≤74	PASS
				Peak	5031.300	-45.16	≤-21.20	50.04	≤74	PASS
				Peak	5150.000	-48.27	≤-21.20	46.93	≤74	PASS
		High	5230	AV	5350.000	-56.02	≤-41.20	39.18	≤54	PASS
				AV	5350.280	-55.89	≤-41.20	39.31	≤54	PASS
				AV	5460.000	-56.61	≤-41.20	38.59	≤54	PASS
				Peak	5350.000	-51.26	≤-21.20	43.94	≤74	PASS



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11AC20SI SO	Ant1	Low	5180	Peak	5389.020	-47.17	≤ -21.20	48.03	≤ 74	PASS
				Peak	5460.000	-50.48	≤ -21.20	44.72	≤ 74	PASS
				AV	4500.000	-58.06	≤ -41.20	37.14	≤ 54	PASS
				AV	5149.600	-42.34	≤ -41.20	52.86	≤ 54	PASS
				AV	5150.000	-41.62	≤ -41.20	53.58	≤ 54	PASS
				Peak	4500.000	-50.55	≤ -21.20	44.65	≤ 74	PASS
		High	5240	Peak	5146.800	-33.29	≤ -21.20	61.91	≤ 74	PASS
				Peak	5150.000	-34.52	≤ -21.20	60.68	≤ 74	PASS
				AV	5350.000	-56.64	≤ -41.20	38.56	≤ 54	PASS
				AV	5352.480	-56.52	≤ -41.20	38.68	≤ 54	PASS
				AV	5460.000	-57.12	≤ -41.20	38.08	≤ 54	PASS
				Peak	5350.000	-50.82	≤ -21.20	44.38	≤ 74	PASS
11AC40SI SO	Ant1	Low	5190	Peak	5409.120	-47.81	≤ -21.20	47.39	≤ 74	PASS
				Peak	5460.000	-50.43	≤ -21.20	44.77	≤ 74	PASS
				AV	4500.000	-57.91	≤ -41.20	37.29	≤ 54	PASS
				AV	5149.600	-51.82	≤ -41.20	43.38	≤ 54	PASS
				AV	5150.000	-51.69	≤ -41.20	43.51	≤ 54	PASS
				Peak	4500.000	-51.41	≤ -21.20	43.79	≤ 74	PASS
		High	5230	Peak	5148.200	-44.58	≤ -21.20	50.62	≤ 74	PASS
				Peak	5150.000	-46.11	≤ -21.20	49.09	≤ 74	PASS
				AV	5350.000	-55.98	≤ -41.20	39.22	≤ 54	PASS
				AV	5350.800	-55.84	≤ -41.20	39.36	≤ 54	PASS
				AV	5460.000	-56.91	≤ -41.20	38.29	≤ 54	PASS
				Peak	5350.000	-50.4	≤ -21.20	44.80	≤ 74	PASS
				Peak	5413.980	-47.37	≤ -21.20	47.83	≤ 74	PASS
				Peak	5460.000	-50.7	≤ -21.20	44.50	≤ 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 detector is 20dB above the limit of average detector in dBm.



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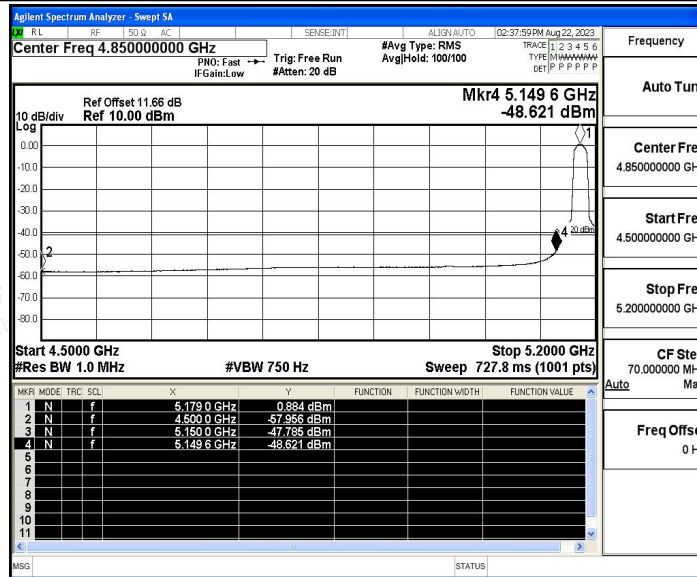
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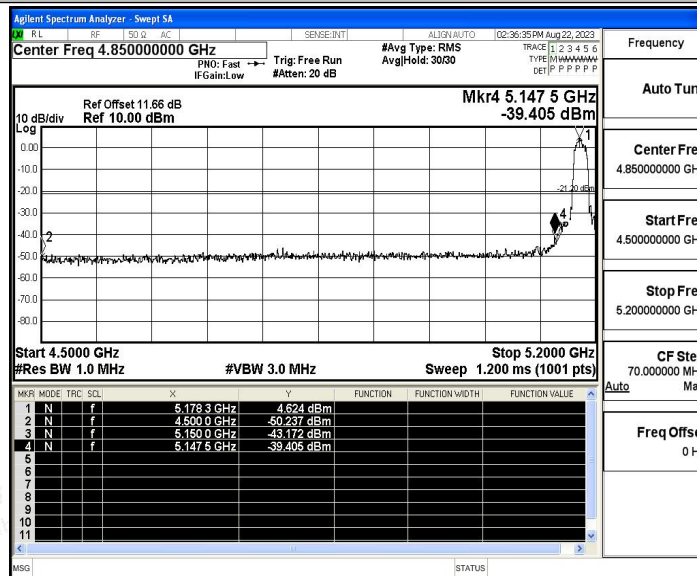


Test Graphs

11A_Ant1_Low_5180_AV



11A_Ant1_Low_5180_Peak



11A_Ant1_High_5240_AV

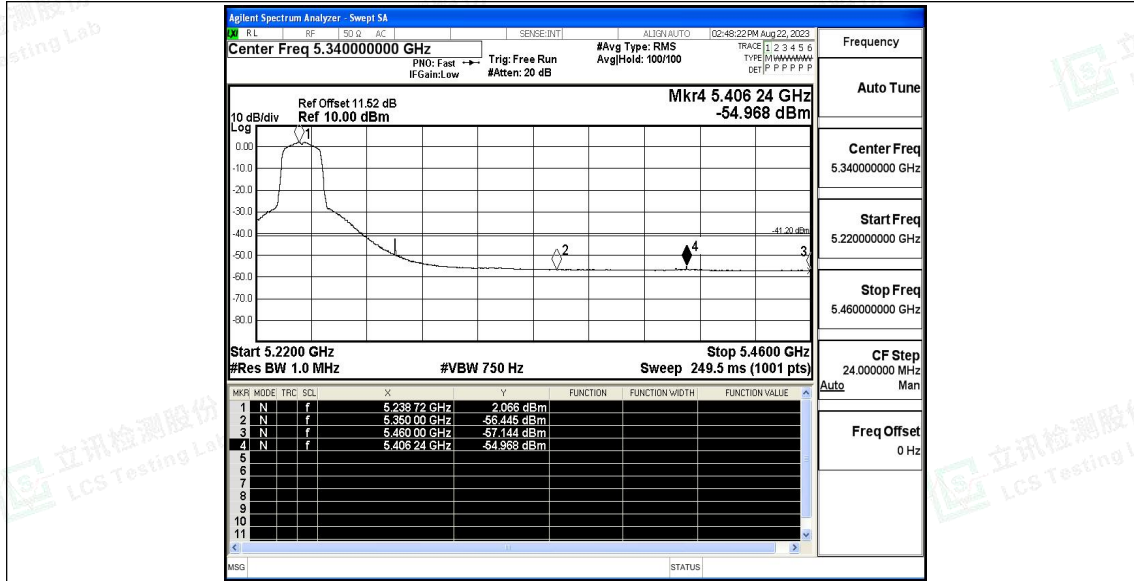


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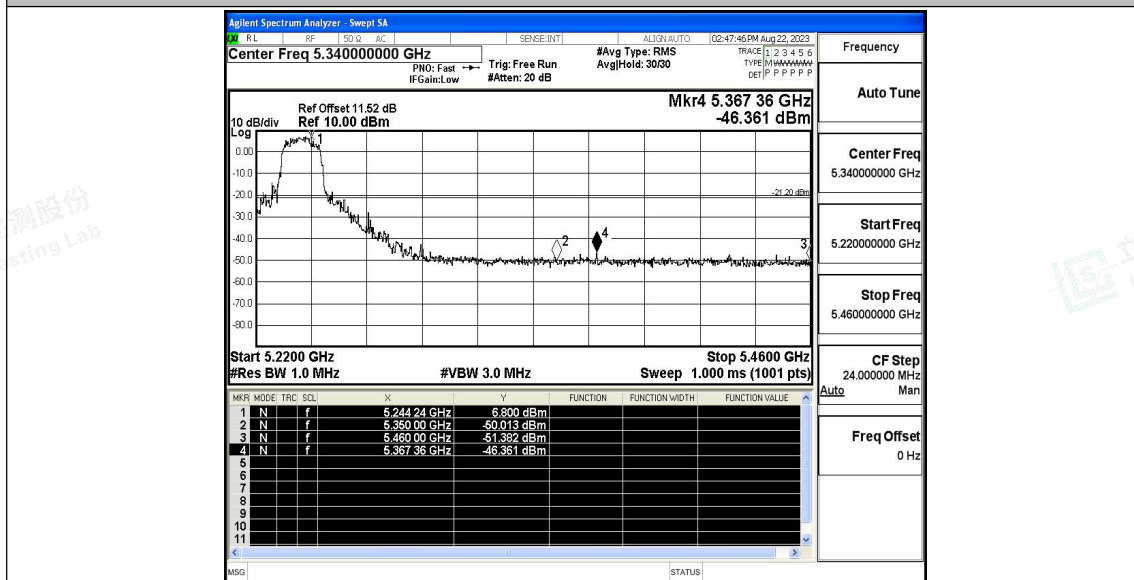
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11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV

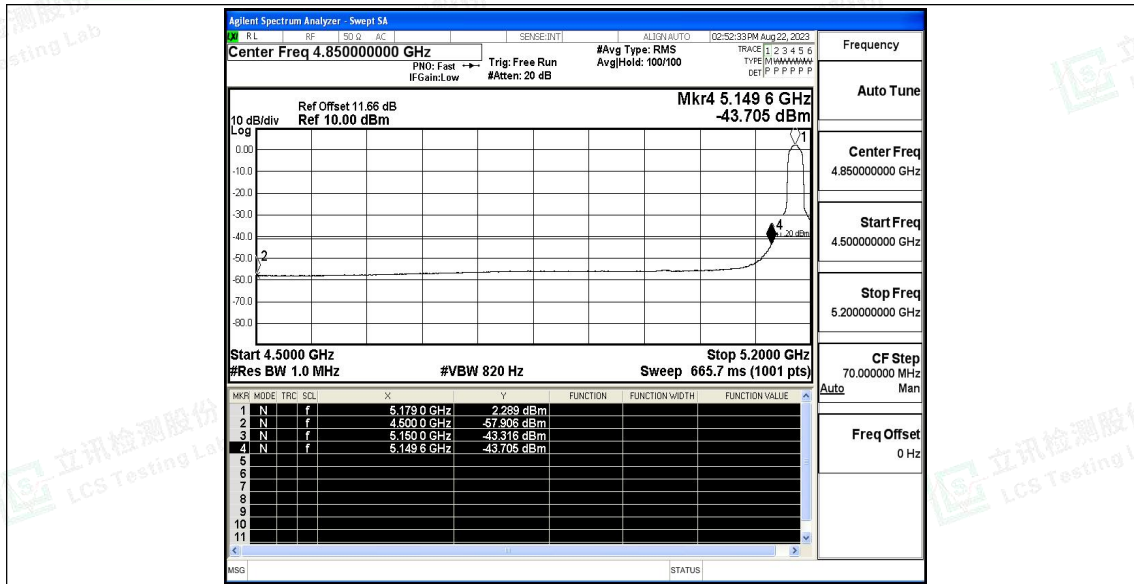


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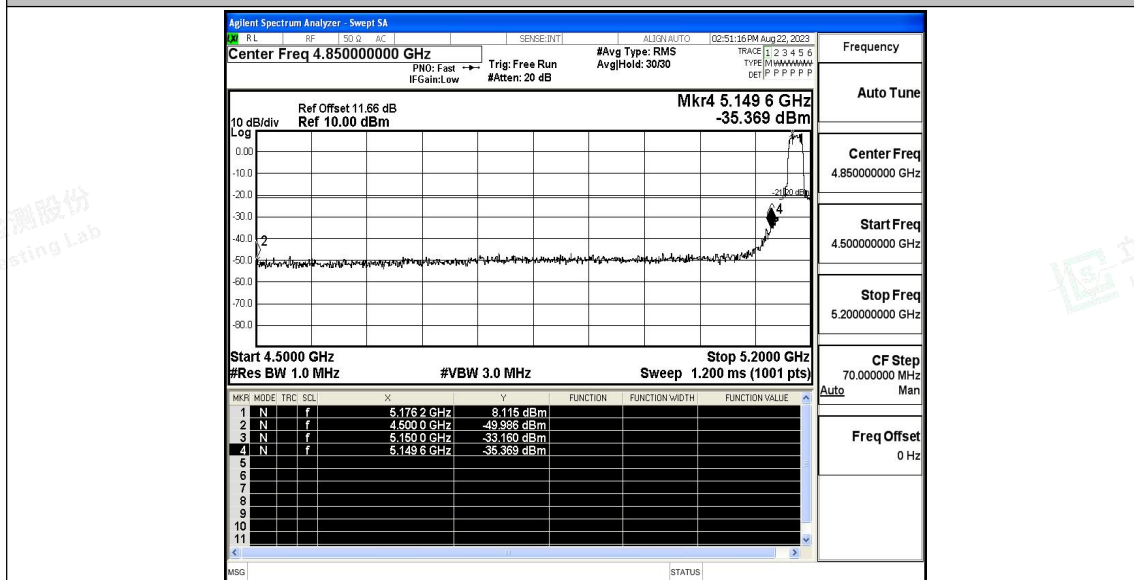
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

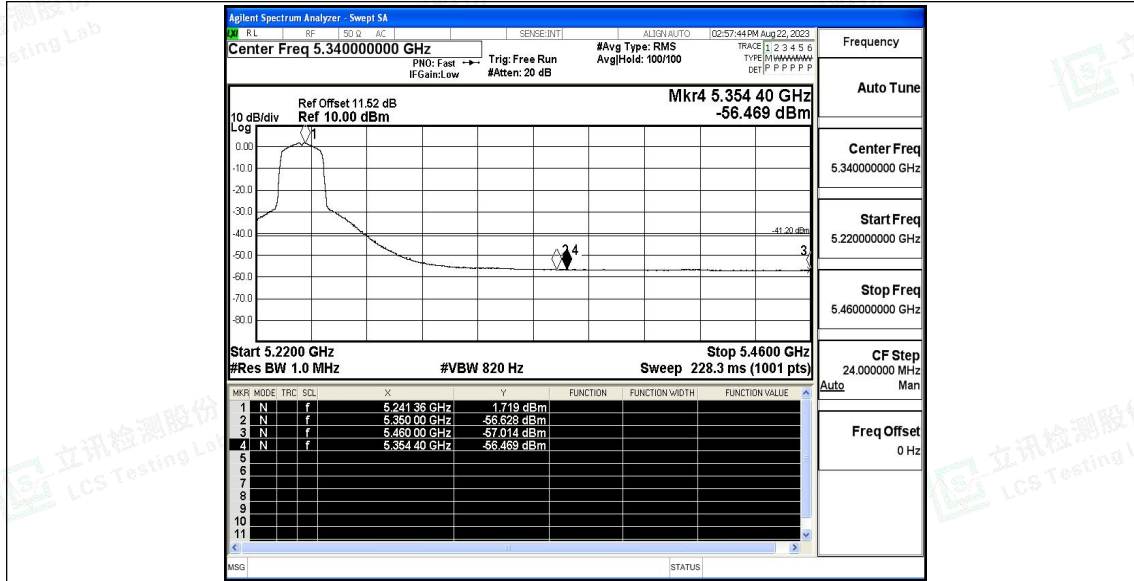


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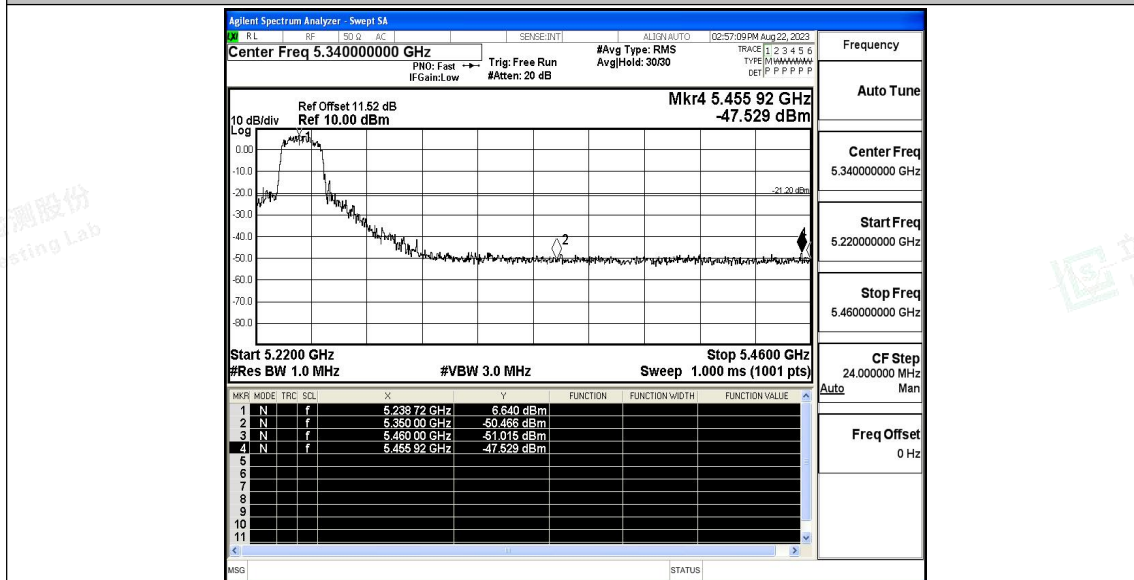
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11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

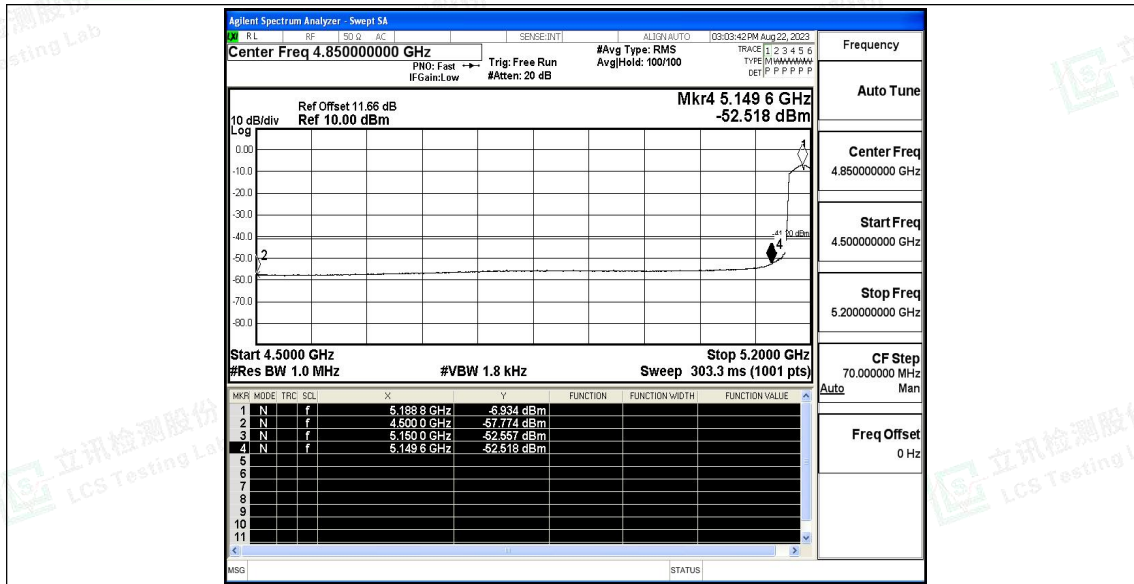


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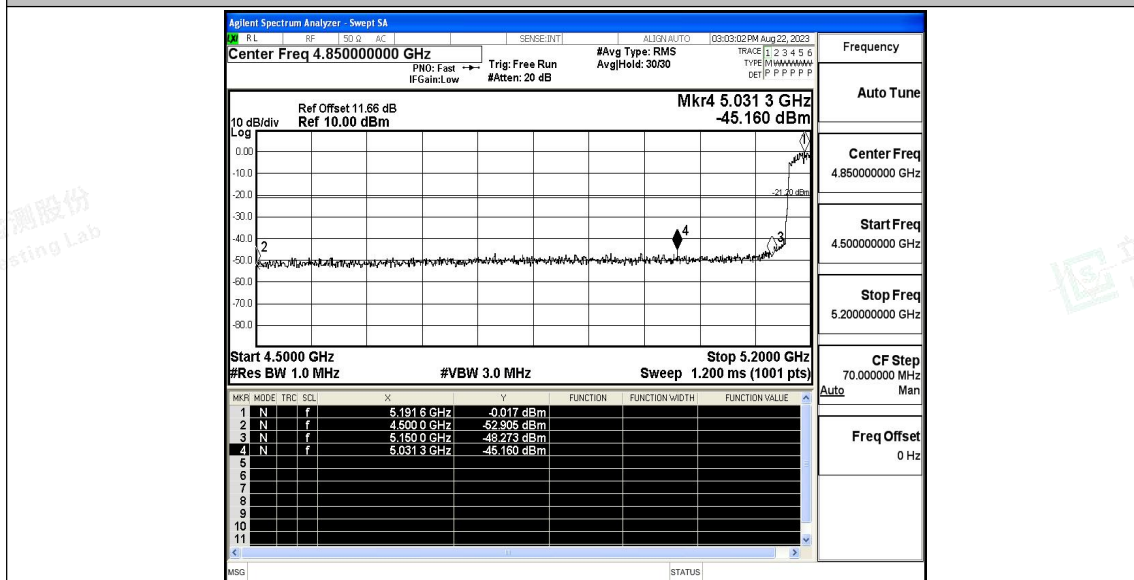
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11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV

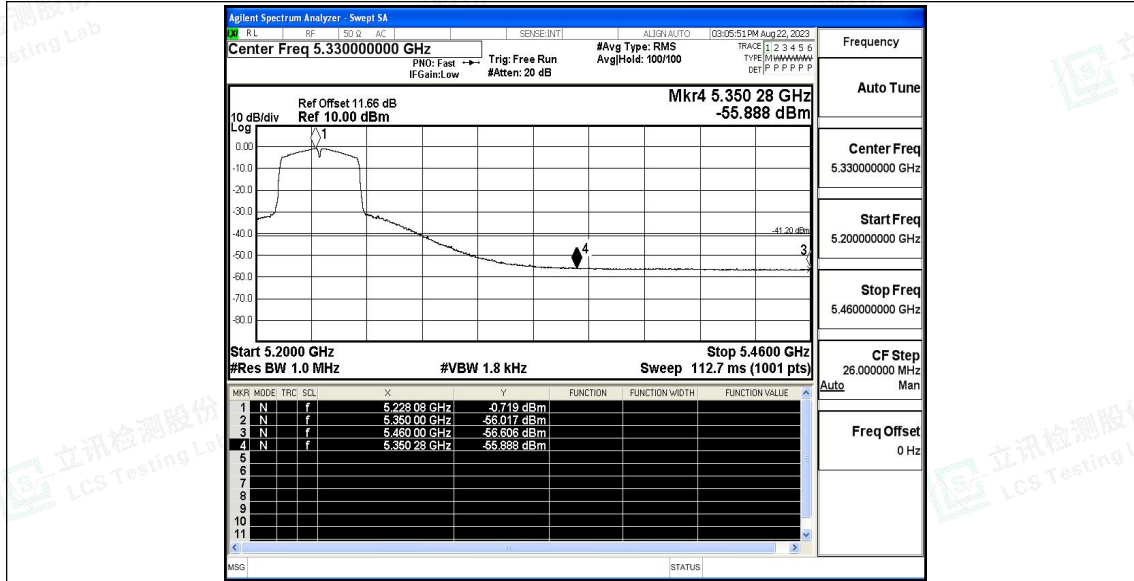


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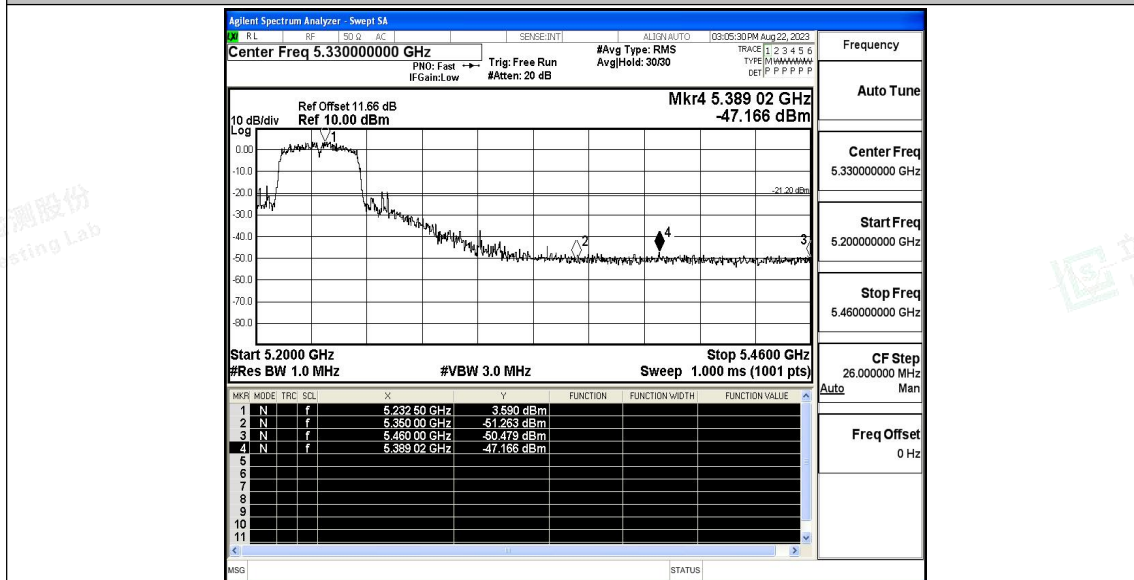
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11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV



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