



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: tablet pc

Test Model: G103

Environmental Conditions

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



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D.1 Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.840	5170.080	5189.920	---	PASS
		5220	19.920	5210.080	5230.000	---	PASS
		5240	20.000	5230.000	5250.000	---	PASS
11N20SISO	Ant1	5180	20.160	5169.880	5190.040	---	PASS
		5220	20.280	5209.920	5230.200	---	PASS
		5240	20.240	5229.920	5250.160	---	PASS
11N40SISO	Ant1	5190	42.240	5169.680	5211.920	---	PASS
		5230	40.480	5209.680	5250.160	---	PASS
11AC20SISO	Ant1	5180	20.120	5169.920	5190.040	---	PASS
		5220	20.200	5209.880	5230.080	---	PASS
		5240	21.000	5229.360	5250.360	---	PASS
11AC40SISO	Ant1	5190	40.400	5169.680	5210.080	---	PASS
		5230	40.400	5209.760	5250.160	---	PASS
11AC80SISO	Ant1	5210	80.480	5169.680	5250.160	---	PASS

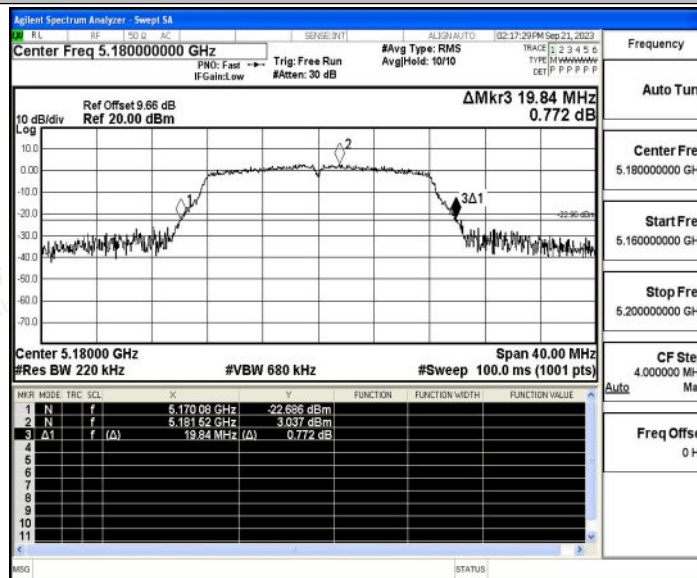


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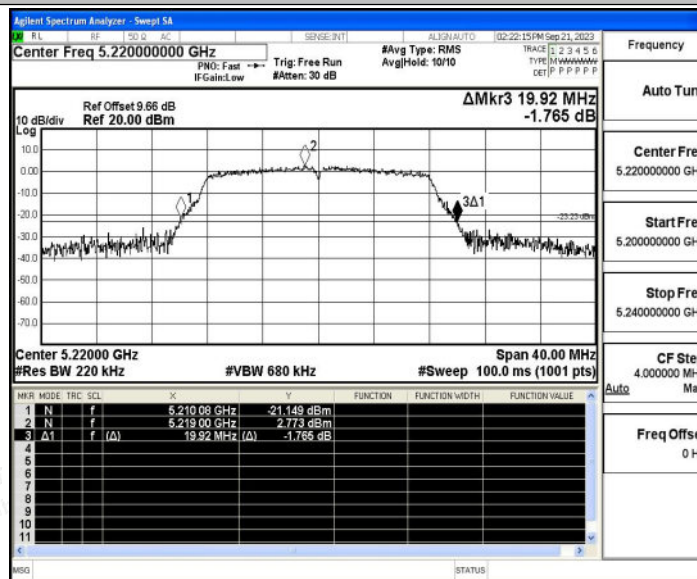


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

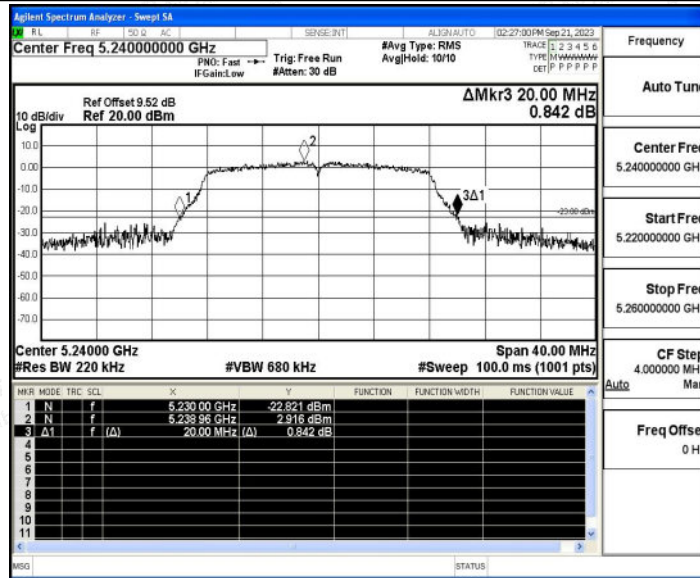


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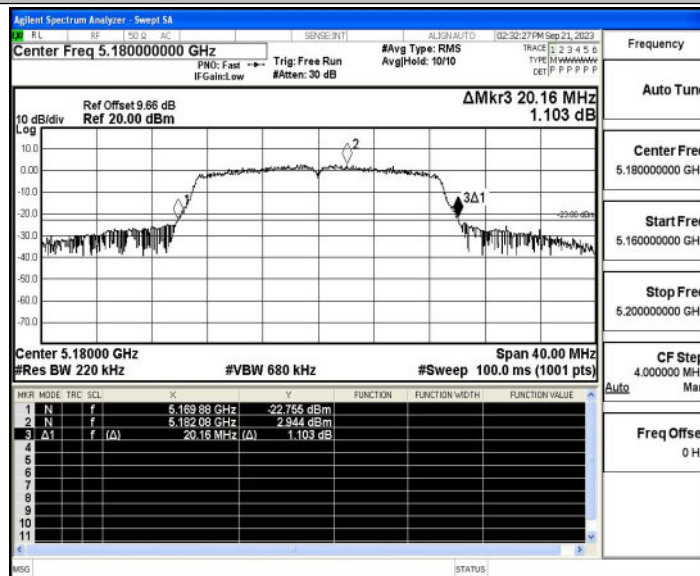
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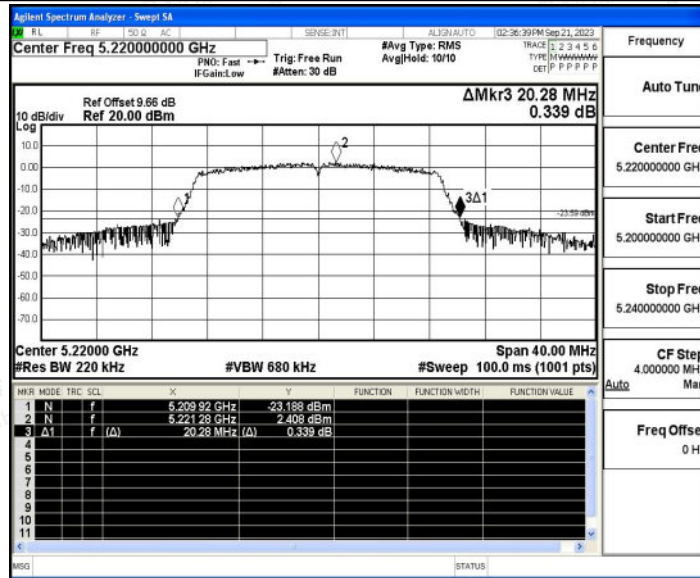
11N20SISO_Ant1_5180



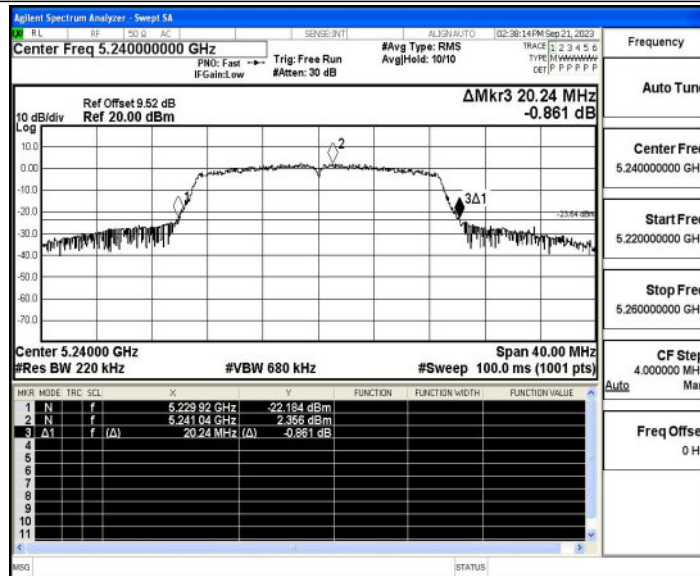
11N20SISO_Ant1_5220



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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

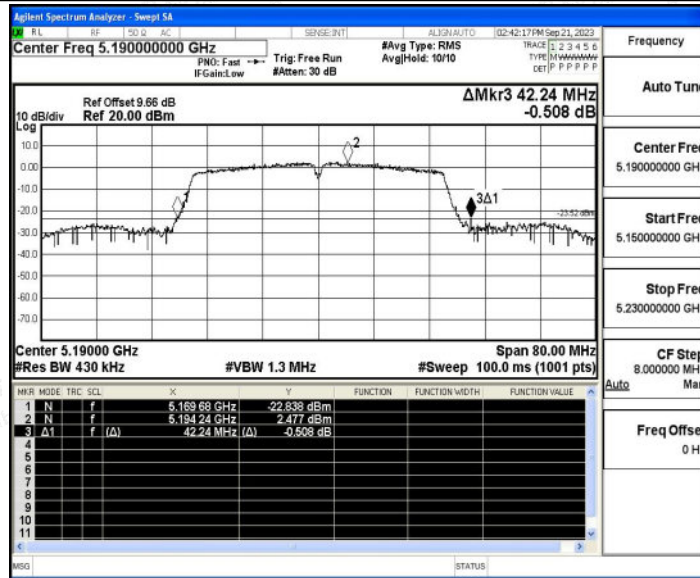


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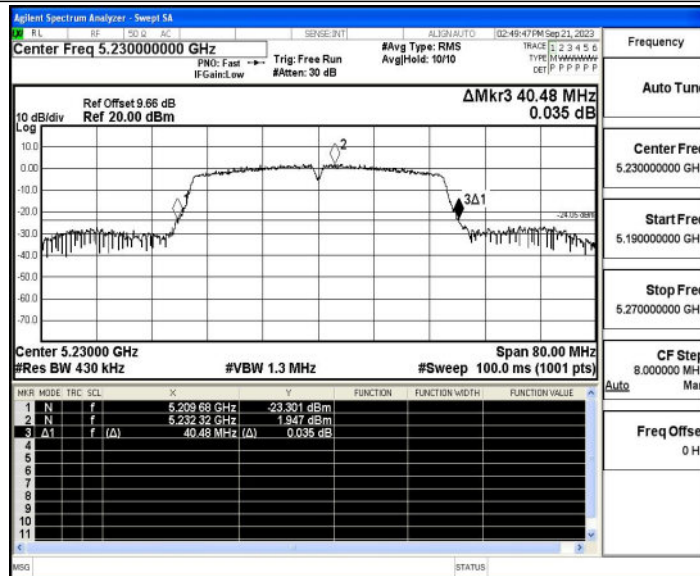
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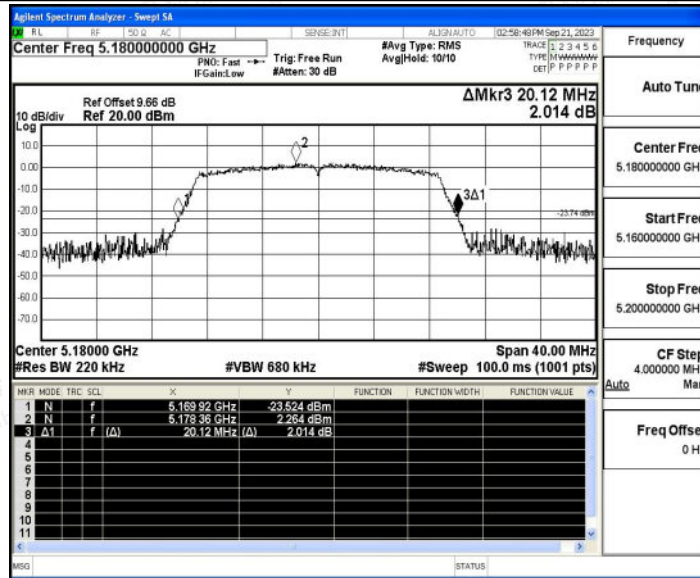
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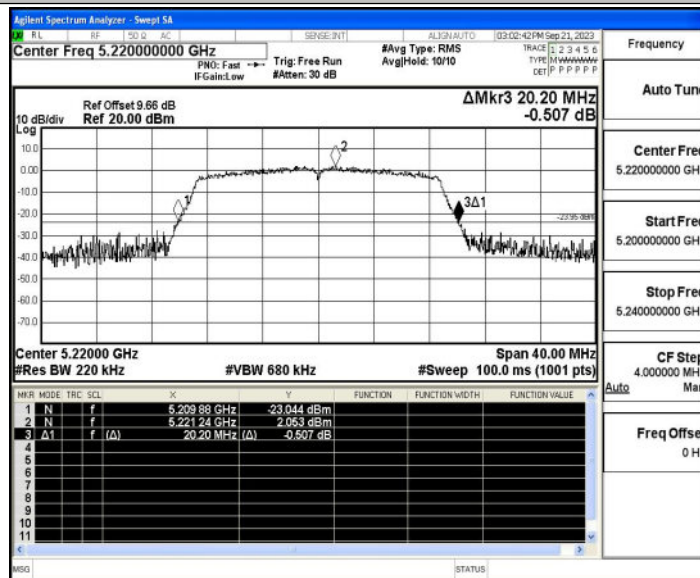
11AC20SISO_Ant1_5180



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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

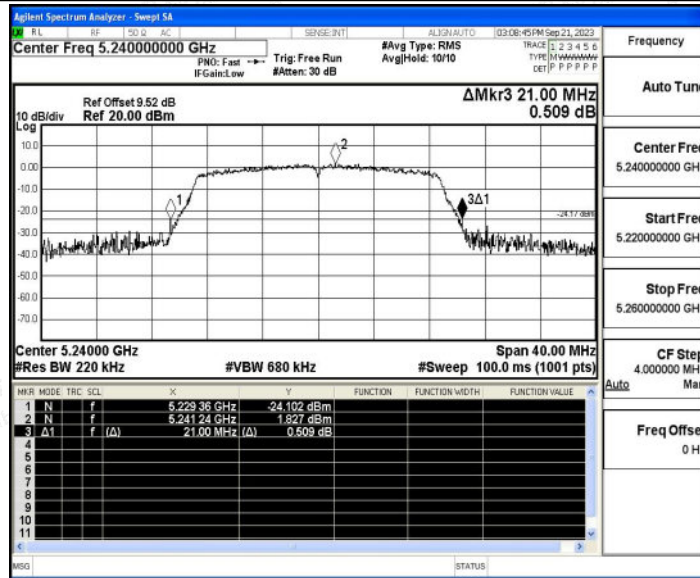


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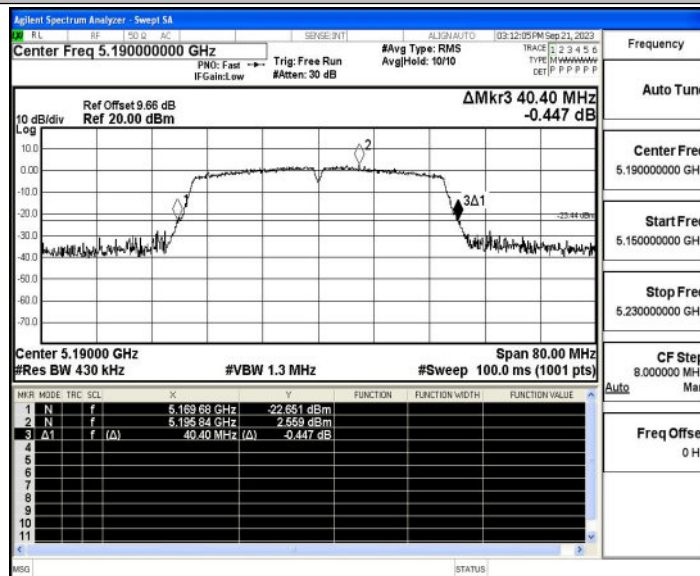
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

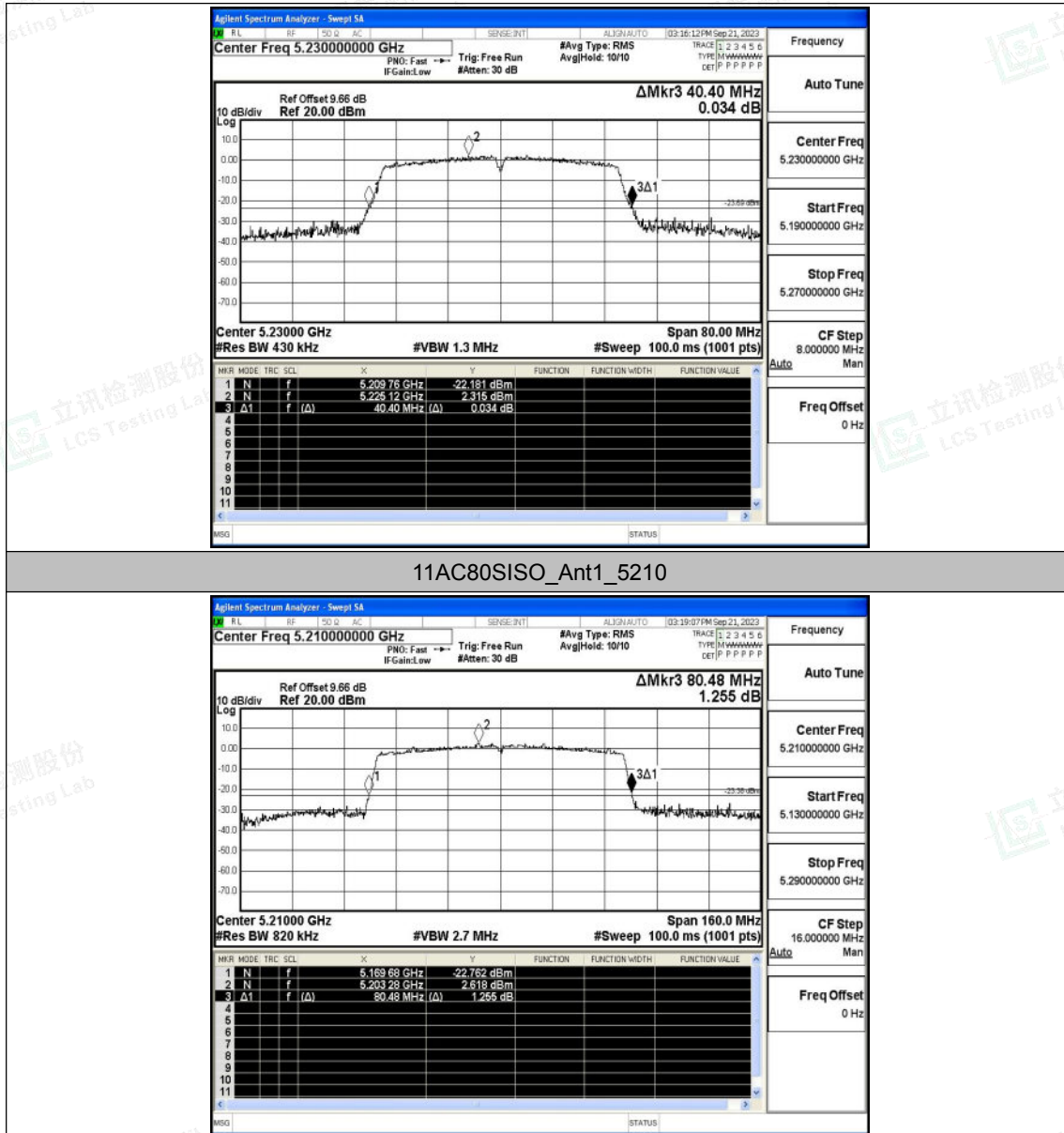


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D.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Power[dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.22	96.53	0.15	12.37	≤23.98	PASS
		5220	12.14	96.53	0.15	12.29	≤23.98	PASS
		5240	12.00	97.20	0.12	12.12	≤23.98	PASS
11N20SISO	Ant1	5180	12.02	96.99	0.13	12.15	≤23.98	PASS
		5220	11.92	96.27	0.17	12.09	≤23.98	PASS
		5240	11.77	96.27	0.17	11.94	≤23.98	PASS
11N40SISO	Ant1	5190	11.93	92.65	0.33	12.26	≤23.98	PASS
		5230	11.31	92.65	0.33	11.64	≤23.98	PASS
11AC20SISO	Ant1	5180	11.55	96.32	0.16	11.71	≤23.98	PASS
		5220	11.43	96.30	0.16	11.59	≤23.98	PASS
		5240	11.29	96.32	0.16	11.45	≤23.98	PASS
11AC40SISO	Ant1	5190	11.18	94.20	0.26	11.44	≤23.98	PASS
		5230	11.32	92.86	0.32	11.64	≤23.98	PASS
11AC80SISO	Ant1	5210	11.00	86.49	0.63	11.63	≤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	1.88	≤ 11.00	PASS
		5220	1.87	≤ 11.00	PASS
		5240	1.7	≤ 11.00	PASS
11N20SISO	Ant1	5180	1.56	≤ 11.00	PASS
		5220	1.47	≤ 11.00	PASS
		5240	1.3	≤ 11.00	PASS
11N40SISO	Ant1	5190	-1.22	≤ 11.00	PASS
		5230	-1.87	≤ 11.00	PASS
11AC20SISO	Ant1	5180	1.15	≤ 11.00	PASS
		5220	1.01	≤ 11.00	PASS
		5240	0.81	≤ 11.00	PASS
11AC40SISO	Ant1	5190	-2.06	≤ 11.00	PASS
		5230	-1.84	≤ 11.00	PASS
11AC80SISO	Ant1	5210	-5.01	≤ 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.

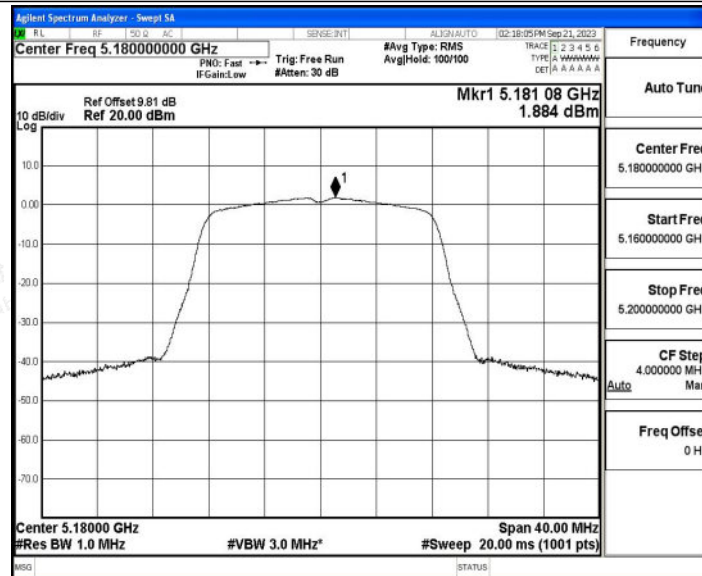


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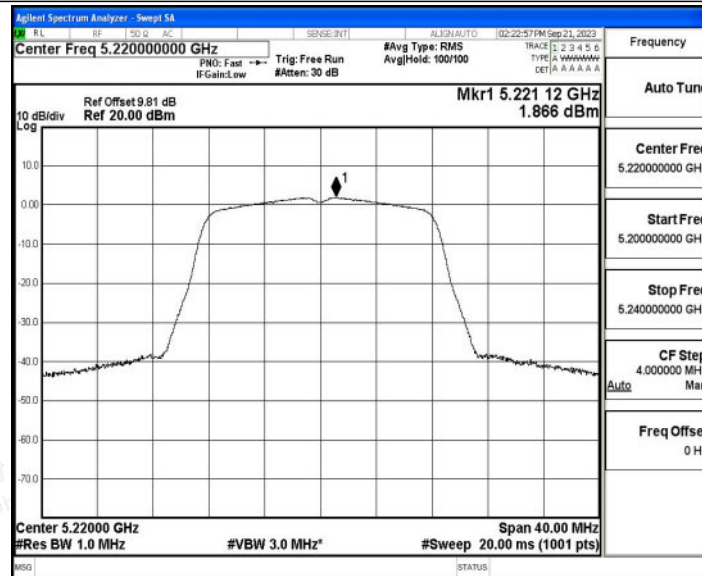


Test Graphs

11A_Ant1_5180

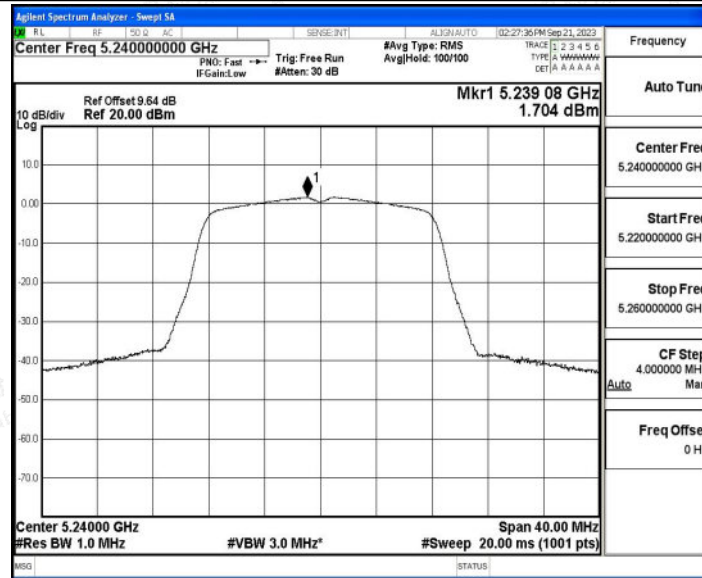


11A_Ant1_5220

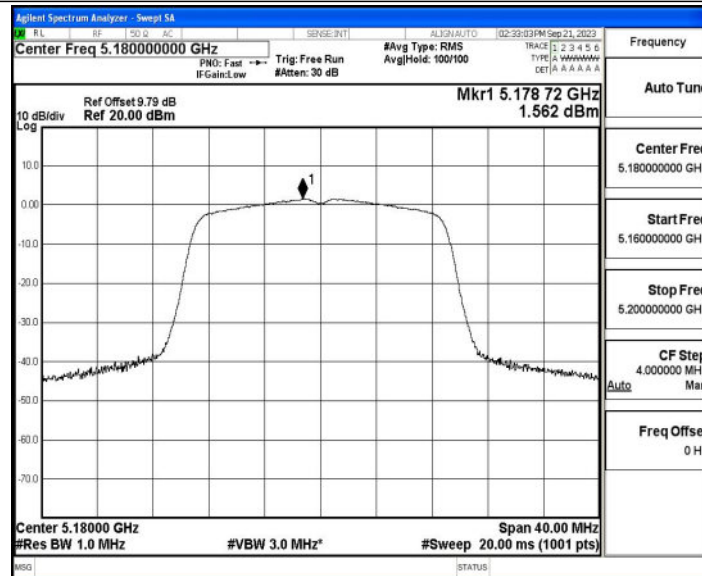


11A_Ant1_5240



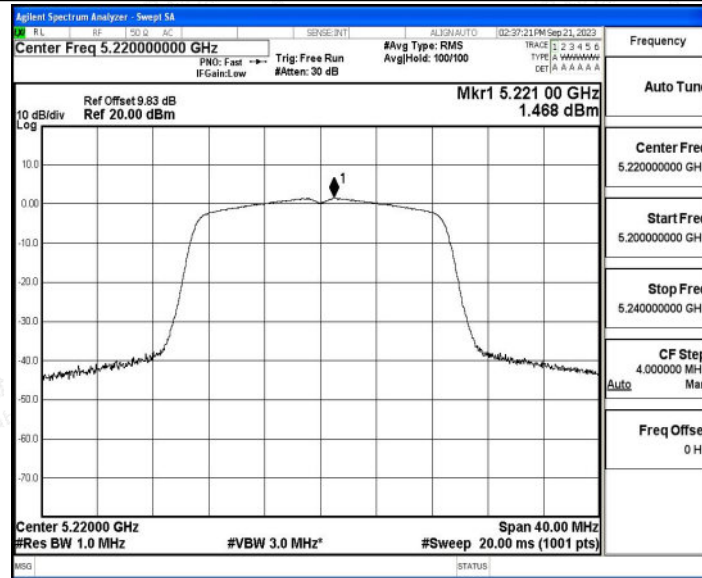


11N20SISO_Ant1_5180

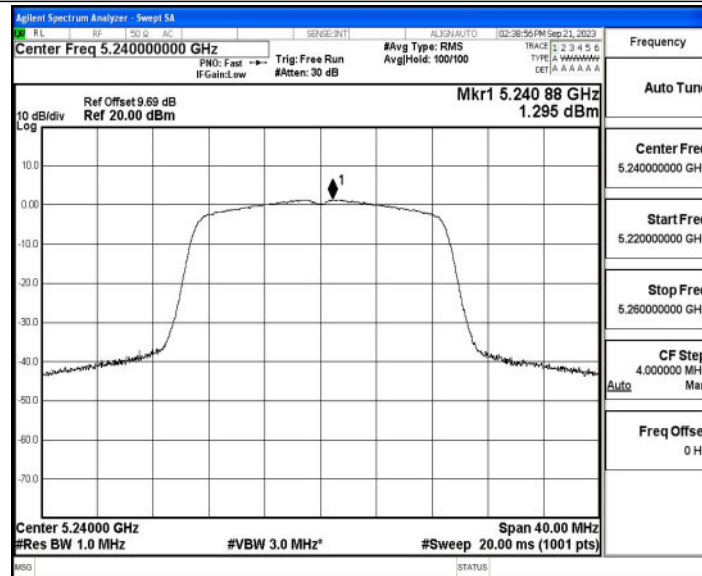


11N20SISO_Ant1_5220



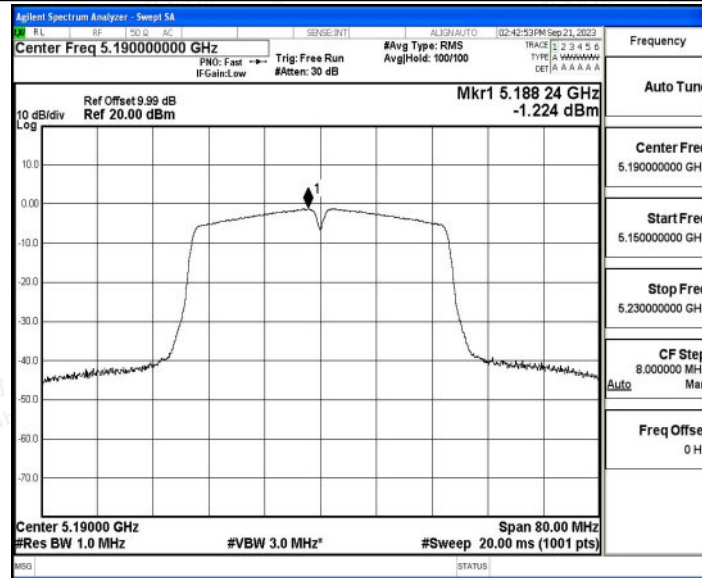


11N20SISO_Ant1_5240

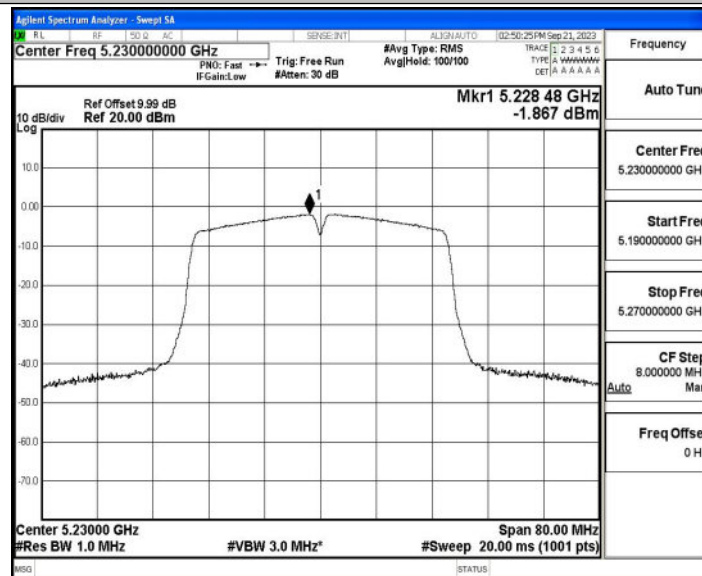


11N40SISO_Ant1_5190





11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

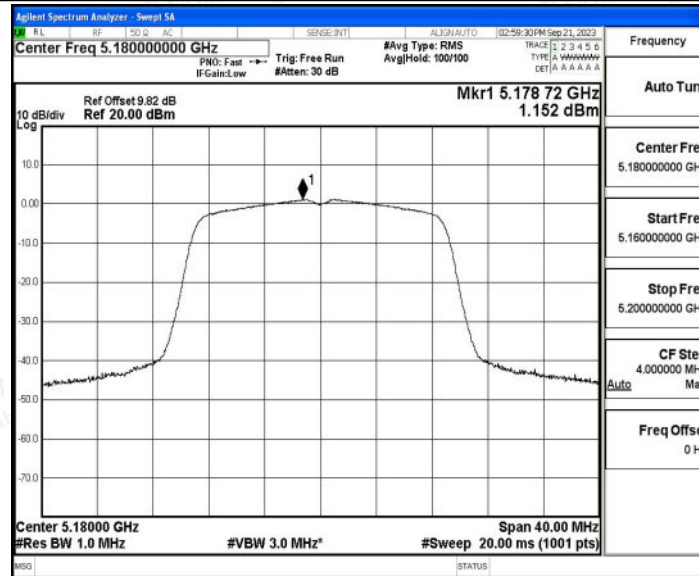


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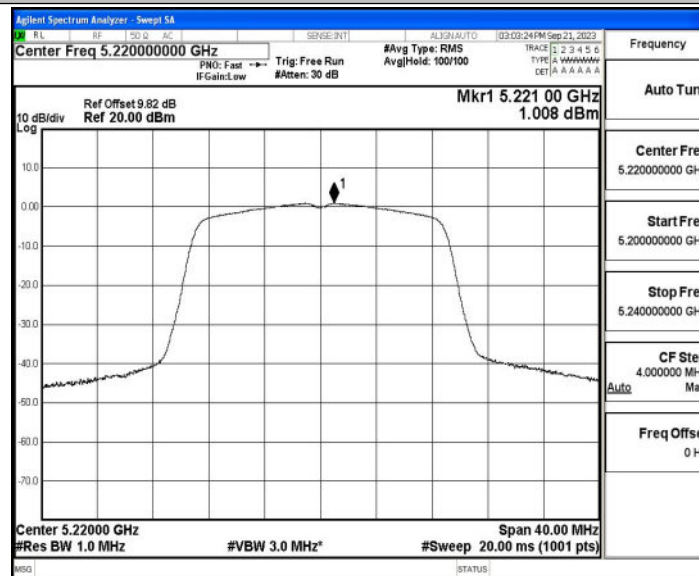
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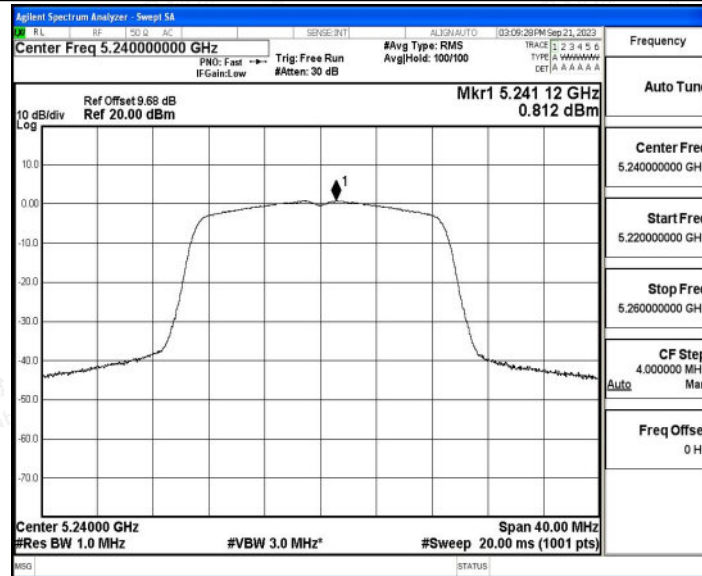


11AC20SISO_Ant1_5220

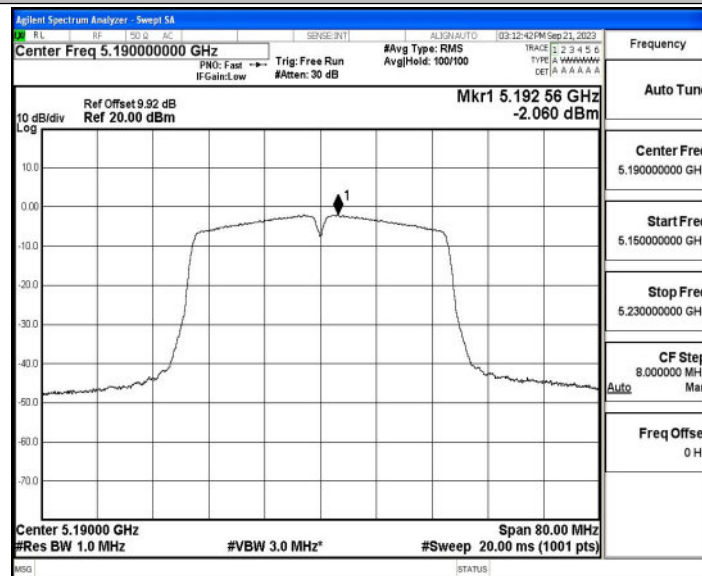


11AC20SISO_Ant1_5240





11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

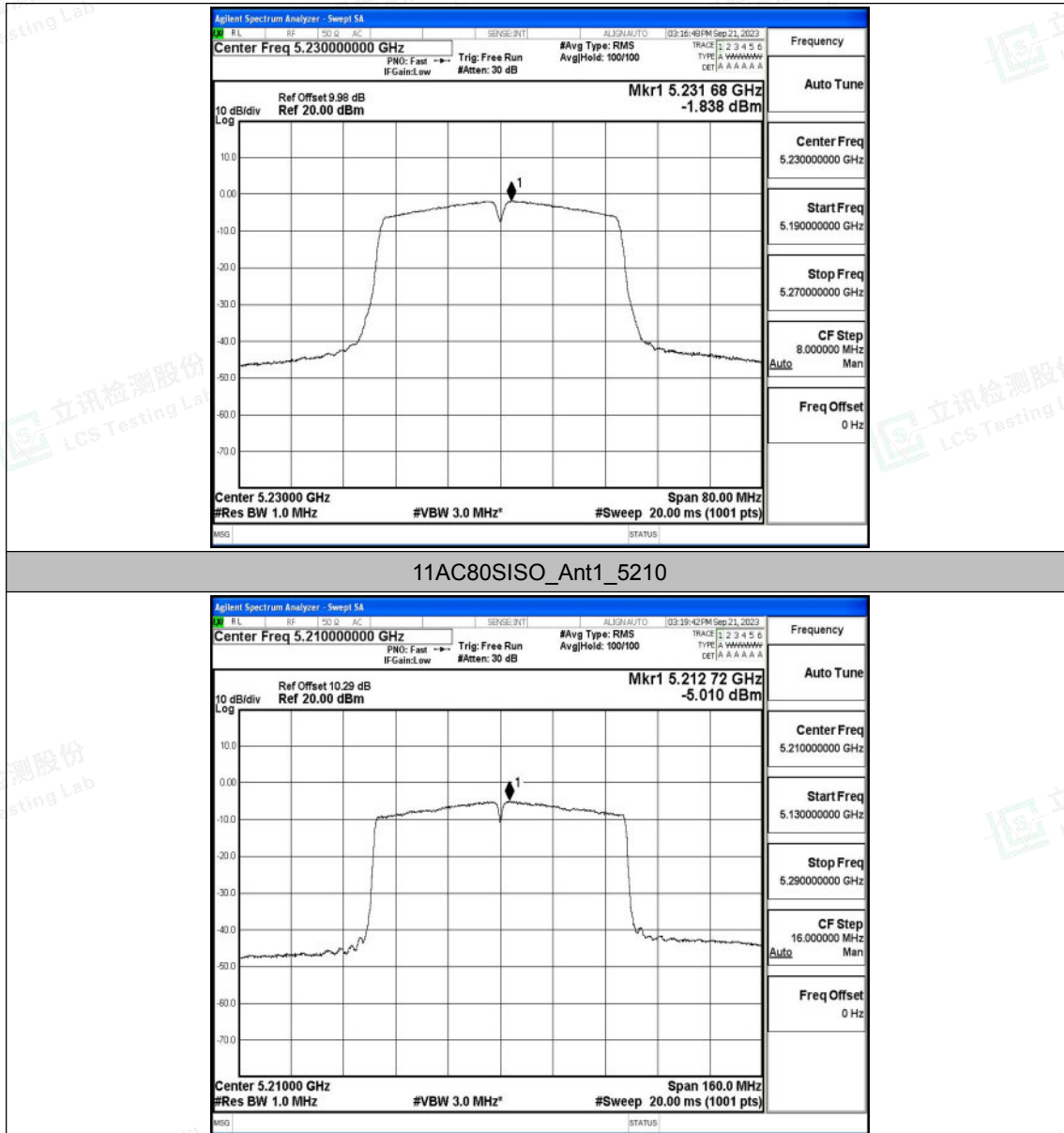


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D.4 Emissions in Restricted Bands

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	-57.85	≤-41.20	37.35	≤54	PASS
				AV	5149.600	-44.38	≤-41.20	50.82	≤54	PASS
				AV	5150.000	-44.4	≤-41.20	50.80	≤54	PASS
				Peak	4500.000	-51.15	≤-21.20	44.05	≤74	PASS
				Peak	5146.100	-33.39	≤-21.20	61.81	≤74	PASS
				Peak	5150.000	-39.95	≤-21.20	55.25	≤74	PASS
		High	5240	AV	5350.000	-53.96	≤-41.20	41.24	≤54	PASS
				AV	5352.480	-53.84	≤-41.20	41.36	≤54	PASS
				AV	5460.000	-55.98	≤-41.20	39.22	≤54	PASS
				Peak	5350.000	-49.43	≤-21.20	45.77	≤74	PASS
				Peak	5366.880	-45.86	≤-21.20	49.34	≤74	PASS
				Peak	5460.000	-50.25	≤-21.20	44.95	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-57.85	≤-41.20	37.35	≤54	PASS
				AV	5148.200	-45.54	≤-41.20	49.66	≤54	PASS
				AV	5150.000	-45.2	≤-41.20	50.00	≤54	PASS
				Peak	4500.000	-51.72	≤-21.20	43.48	≤74	PASS
				Peak	5148.200	-32.23	≤-21.20	62.97	≤74	PASS
				Peak	5150.000	-32.3	≤-21.20	62.90	≤74	PASS
		High	5240	AV	5350.000	-53.97	≤-41.20	41.23	≤54	PASS
				AV	5350.320	-53.83	≤-41.20	41.37	≤54	PASS
				AV	5460.000	-56.08	≤-41.20	39.12	≤54	PASS
				Peak	5350.000	-49.36	≤-21.20	45.84	≤74	PASS
				Peak	5361.120	-45.8	≤-21.20	49.40	≤74	PASS
				Peak	5460.000	-49.47	≤-21.20	45.73	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-57.57	≤-41.20	37.63	≤54	PASS
				AV	5149.600	-42.02	≤-41.20	53.18	≤54	PASS
				AV	5150.000	-42.45	≤-41.20	52.75	≤54	PASS
				Peak	4500.000	-52.62	≤-21.20	42.58	≤74	PASS
				Peak	5148.900	-31.39	≤-21.20	63.81	≤74	PASS
				Peak	5150.000	-30.7	≤-21.20	64.50	≤74	PASS
		High	5230	AV	5350.000	-53.66	≤-41.20	41.54	≤54	PASS
				AV	5351.580	-53.46	≤-41.20	41.74	≤54	PASS
				AV	5460.000	-55.79	≤-41.20	39.41	≤54	PASS



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				Peak	5350.000	-47.39	≤-21.20	47.81	≤74	PASS
				Peak	5391.360	-45.52	≤-21.20	49.68	≤74	PASS
				Peak	5460.000	-51.96	≤-21.20	43.24	≤74	PASS
11AC20SI SO	Ant1	Low	5180	AV	4500.000	-57.79	≤-41.20	37.41	≤54	PASS
				AV	5149.600	-46.86	≤-41.20	48.34	≤54	PASS
				AV	5150.000	-46.17	≤-41.20	49.03	≤54	PASS
				Peak	4500.000	-50.79	≤-21.20	44.41	≤74	PASS
				Peak	5139.100	-36.72	≤-21.20	58.48	≤74	PASS
				Peak	5150.000	-39.84	≤-21.20	55.36	≤74	PASS
		High	5240	AV	5350.000	-54.04	≤-41.20	41.16	≤54	PASS
				AV	5351.760	-53.9	≤-41.20	41.30	≤54	PASS
				AV	5460.000	-56.01	≤-41.20	39.19	≤54	PASS
				Peak	5350.000	-48.22	≤-21.20	46.98	≤74	PASS
				Peak	5396.400	-45.46	≤-21.20	49.74	≤74	PASS
				Peak	5460.000	-50.85	≤-21.20	44.35	≤74	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-57.7	≤-41.20	37.50	≤54	PASS
				AV	5145.400	-44.26	≤-41.20	50.94	≤54	PASS
				AV	5150.000	-44.14	≤-41.20	51.06	≤54	PASS
				Peak	4500.000	-51.5	≤-21.20	43.70	≤74	PASS
				Peak	5147.500	-31.51	≤-21.20	63.69	≤74	PASS
				Peak	5150.000	-36.37	≤-21.20	58.83	≤74	PASS
		High	5230	AV	5350.000	-53.81	≤-41.20	41.39	≤54	PASS
				AV	5355.220	-53.54	≤-41.20	41.66	≤54	PASS
				AV	5460.000	-55.64	≤-41.20	39.56	≤54	PASS
				Peak	5350.000	-47.17	≤-21.20	48.03	≤74	PASS
				Peak	5372.120	-46.34	≤-21.20	48.86	≤74	PASS
				Peak	5460.000	-52.62	≤-21.20	42.58	≤74	PASS
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-57.18	≤-41.20	38.02	≤54	PASS
				AV	5149.500	-42.51	≤-41.20	52.69	≤54	PASS
				AV	5150.000	-43.06	≤-41.20	52.14	≤54	PASS
				Peak	4500.000	-51.3	≤-21.20	43.90	≤74	PASS
				Peak	5136.750	-32.59	≤-21.20	62.61	≤74	PASS
				Peak	5150.000	-35.09	≤-21.20	60.11	≤74	PASS
		High	5210	AV	5350.000	-51.3	≤-41.20	43.90	≤54	PASS
				AV	5350.800	-50.41	≤-41.20	44.79	≤54	PASS
				AV	5460.000	-55.43	≤-41.20	39.77	≤54	PASS
				Peak	5350.000	-44.17	≤-21.20	51.03	≤74	PASS
				Peak	5365.920	-41.19	≤-21.20	54.01	≤74	PASS
				Peak	5460.000	-50.57	≤-21.20	44.63	≤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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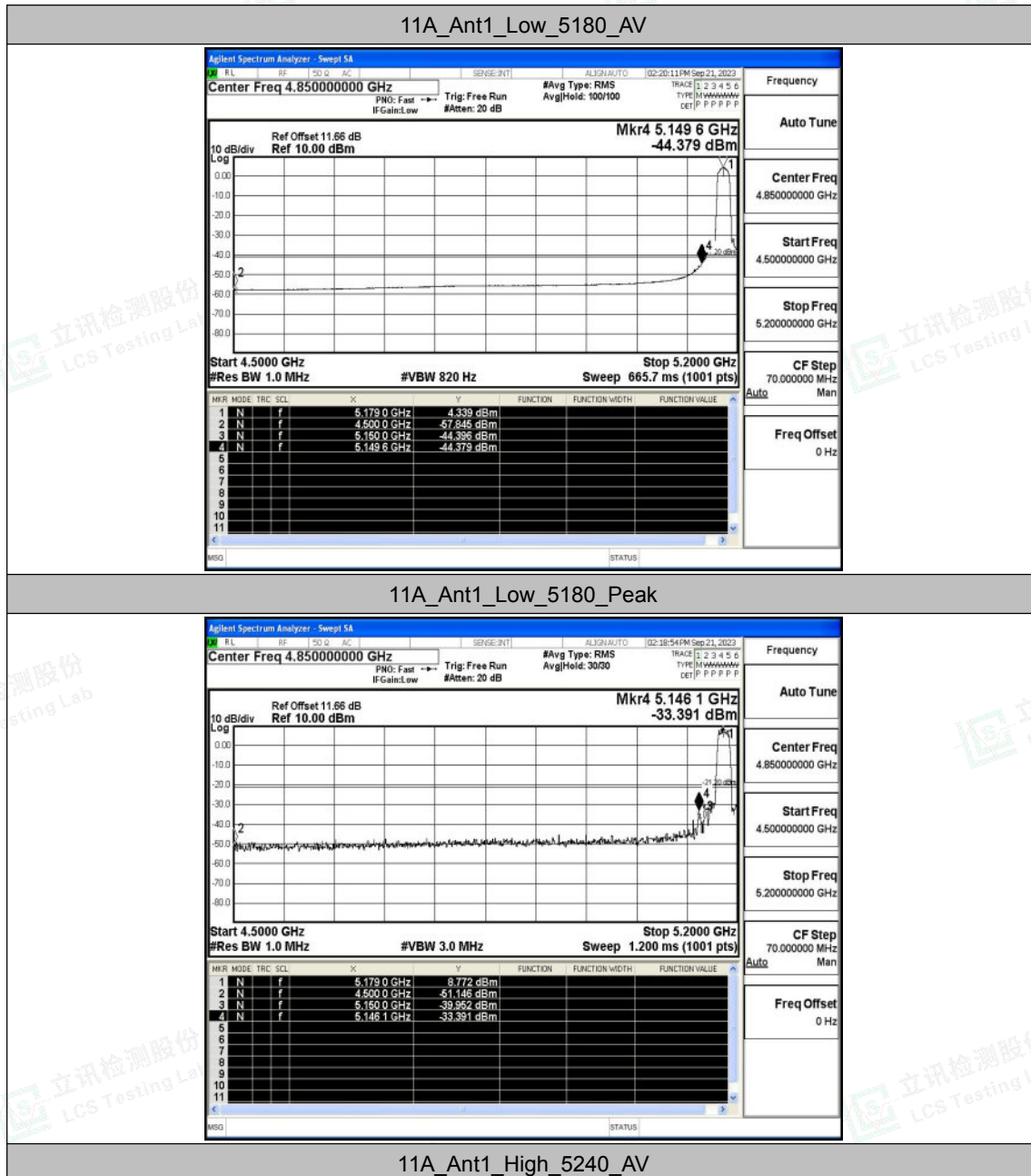
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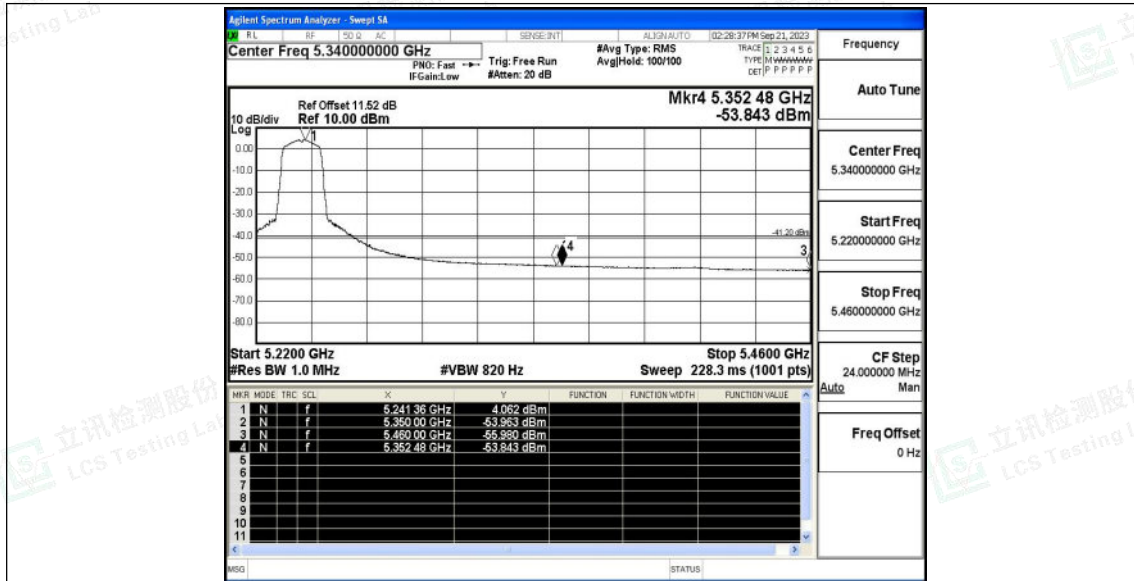
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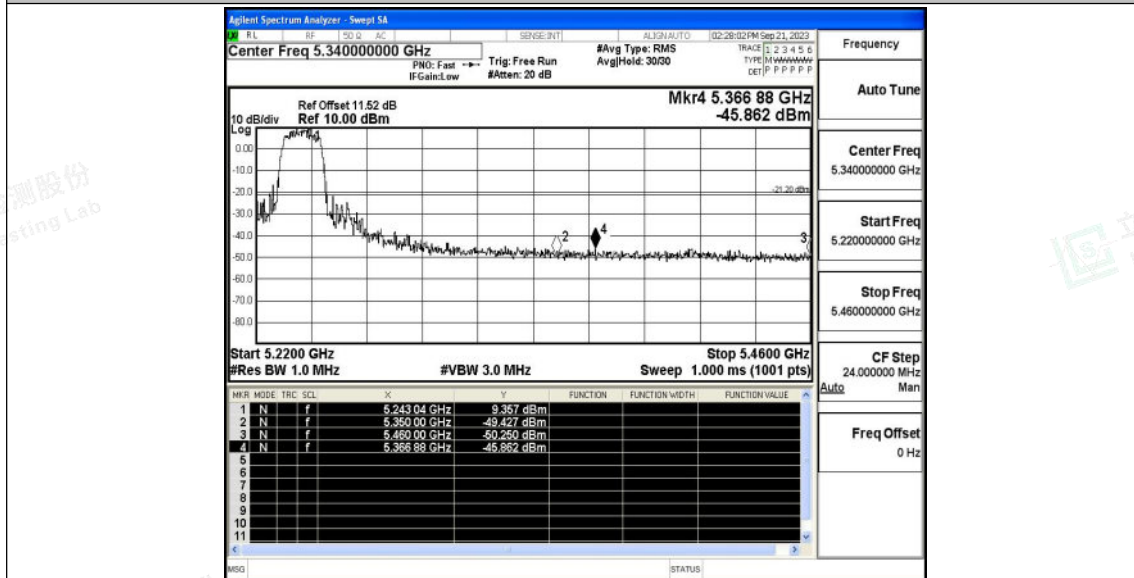
Test Graphs



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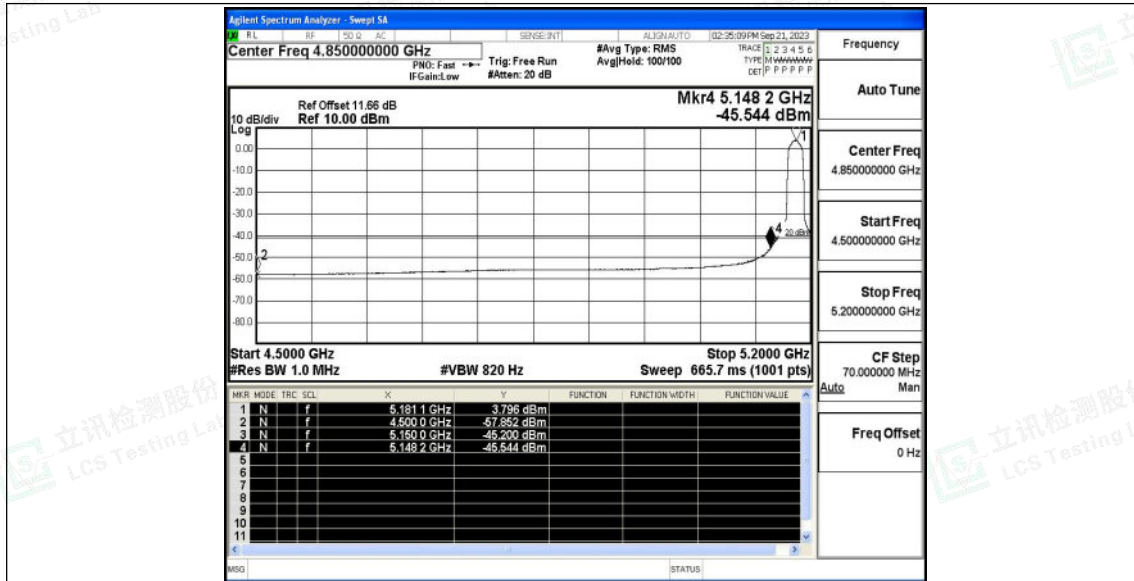
11A_Ant1_High_5240_Peak



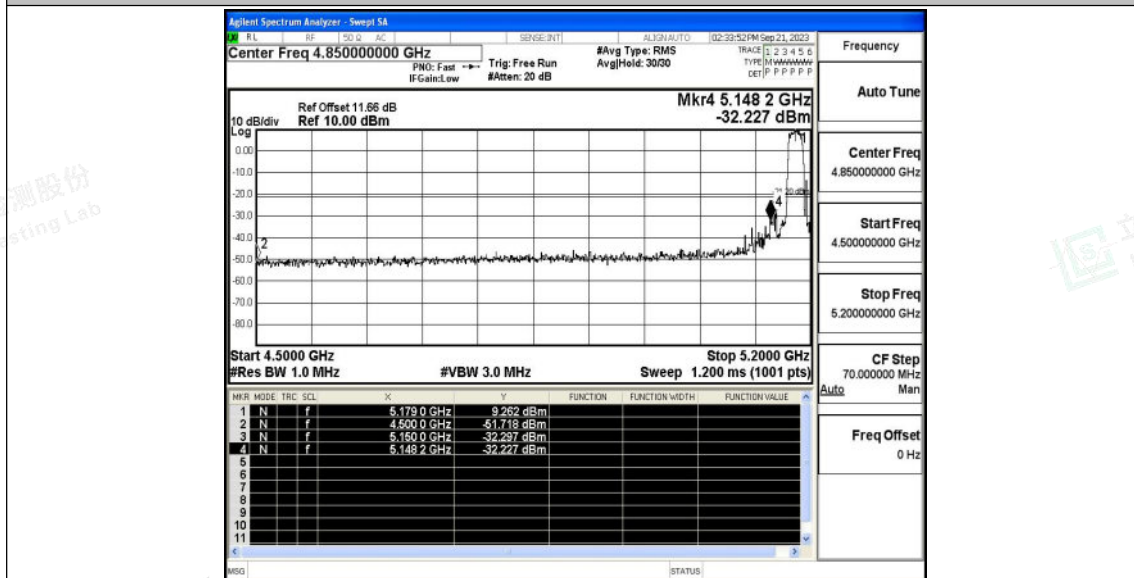
11N20SISO_Ant1_Low_5180_AV



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11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

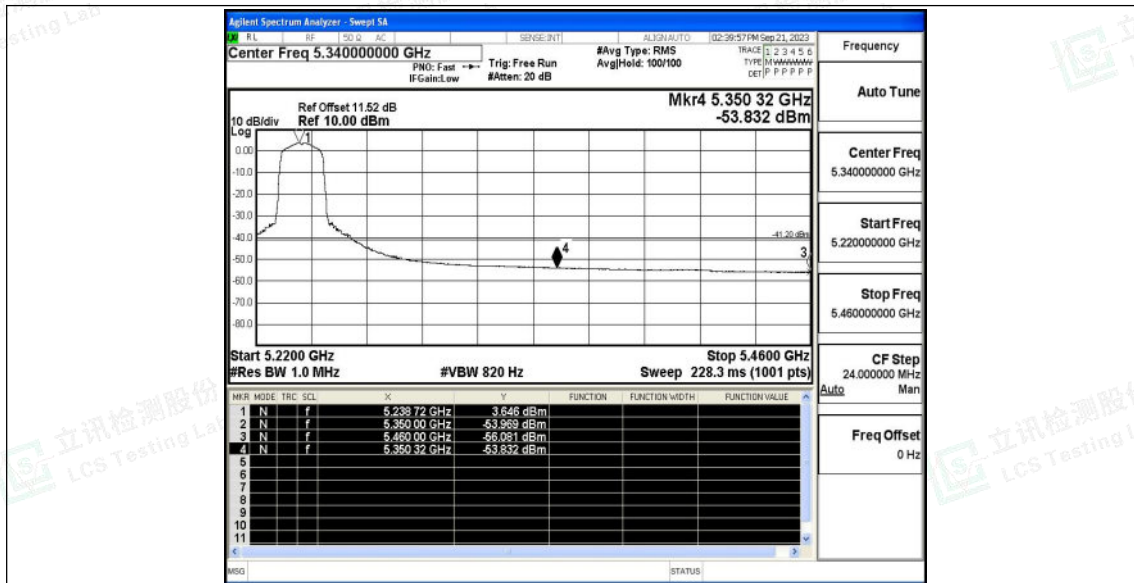


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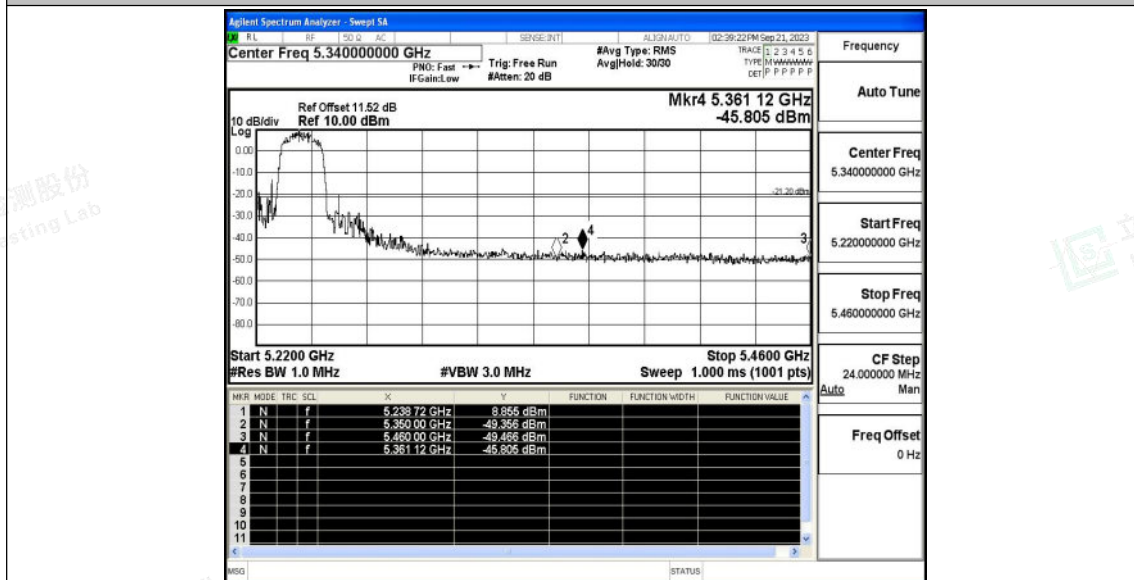
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11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

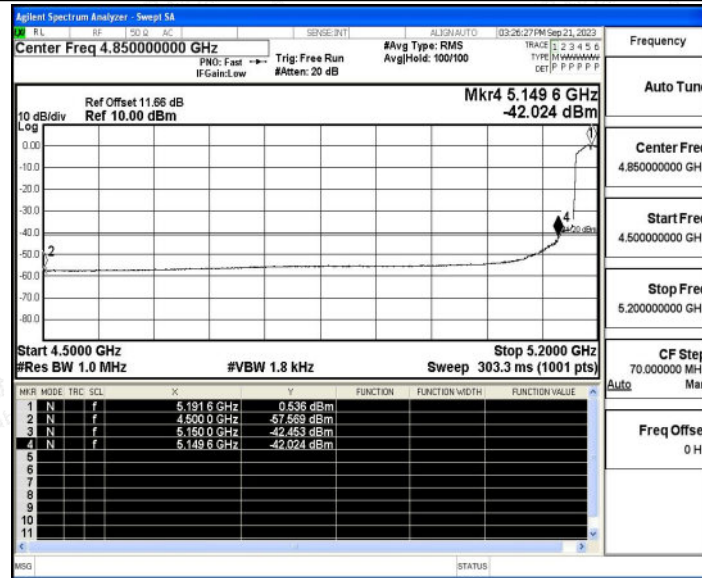


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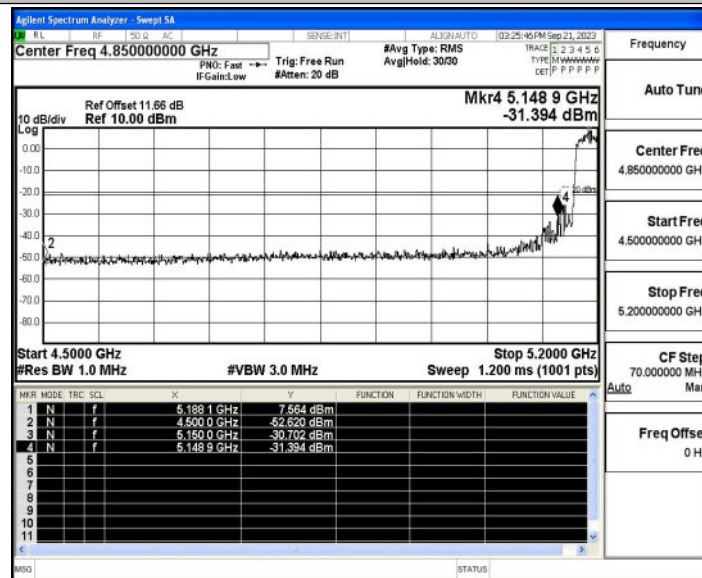
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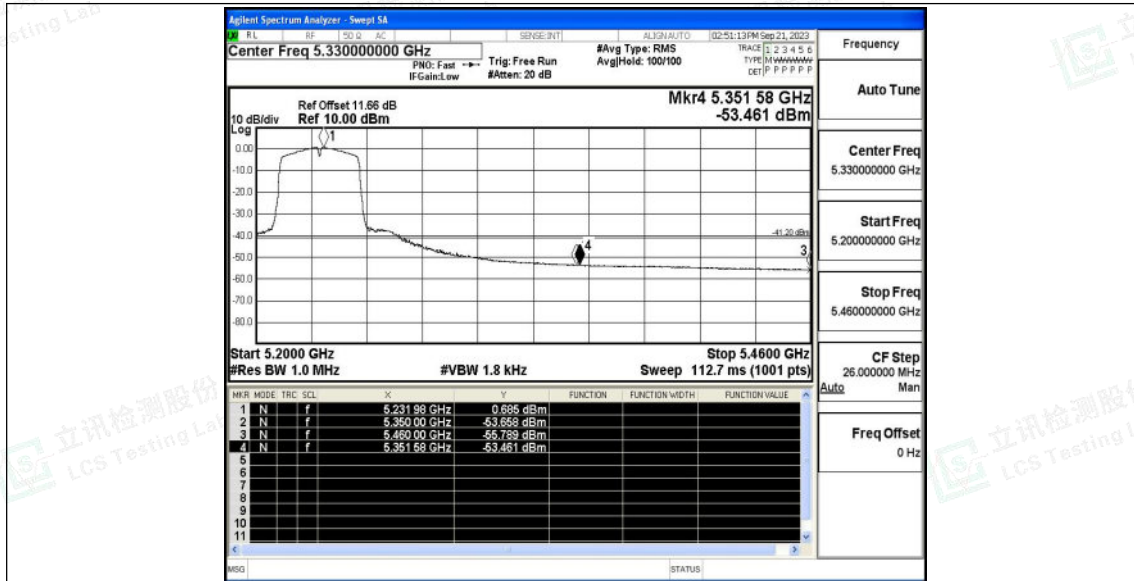


11N40SISO_Ant1_Low_5190_Peak

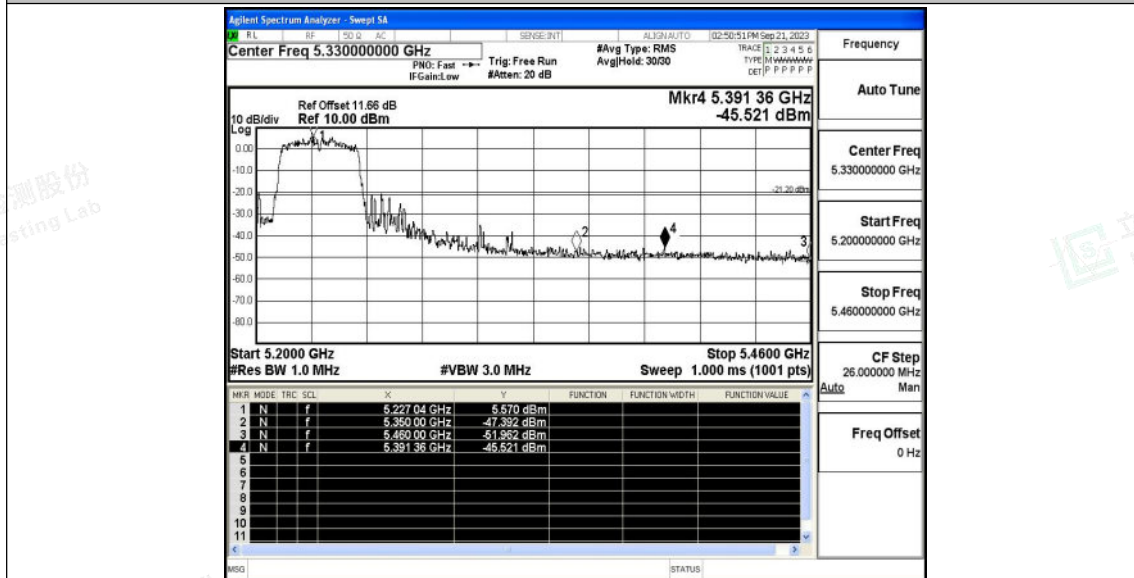


11N40SISO_Ant1_High_5230_AV





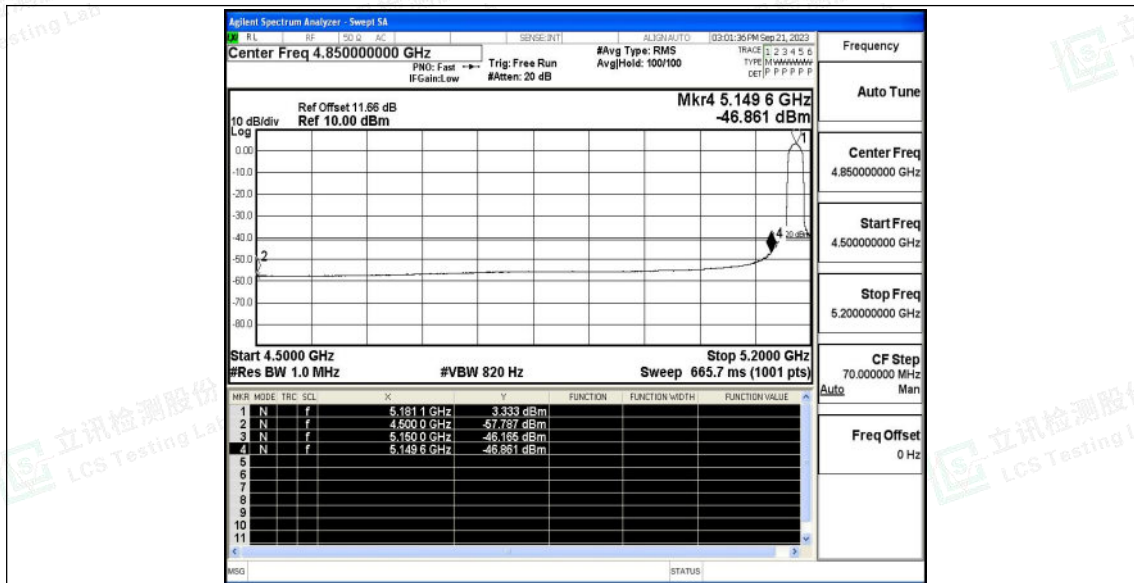
11N40SISO_Ant1_High_5230_Peak



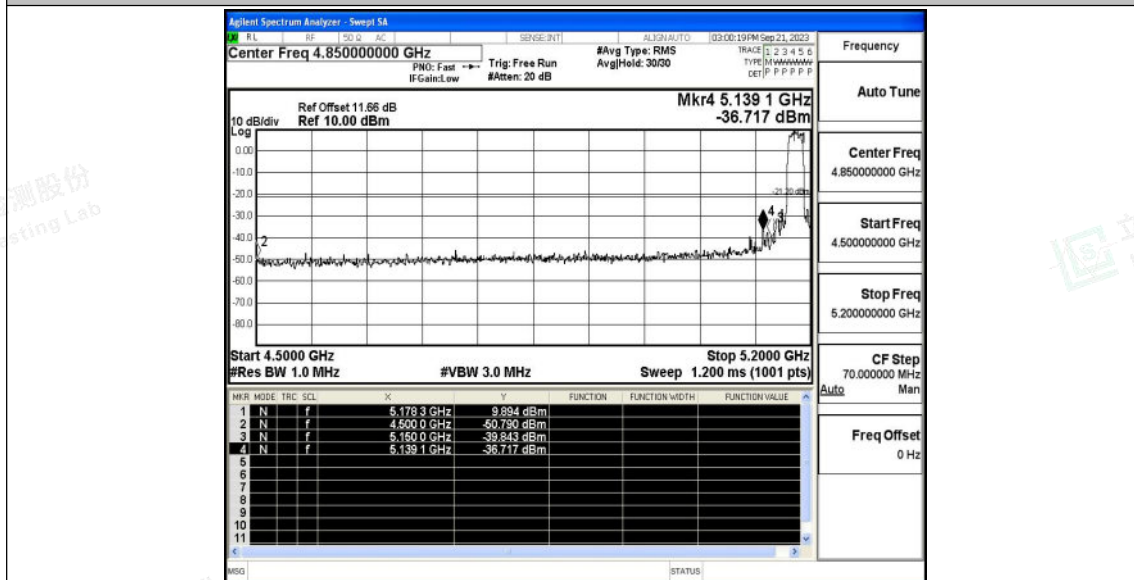
11AC20SISO_Ant1_Low_5180_AV



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11AC20SISO_Ant1_Low_5180_Peak



11AC20SISO_Ant1_High_5240_AV

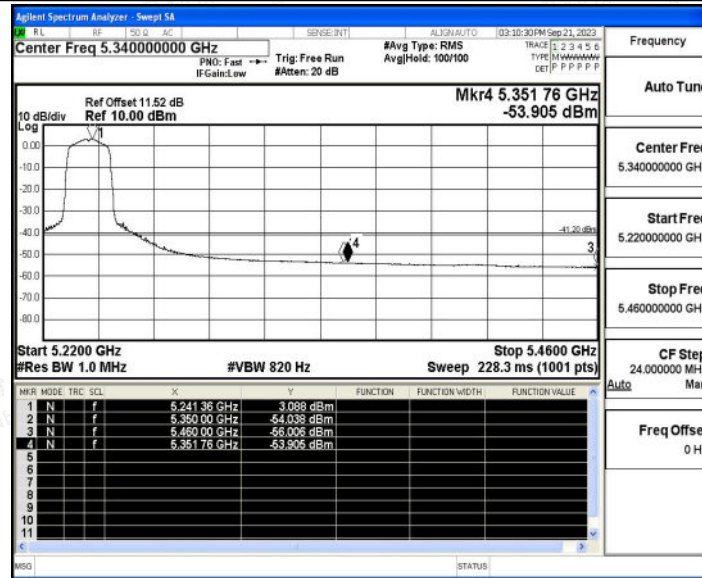


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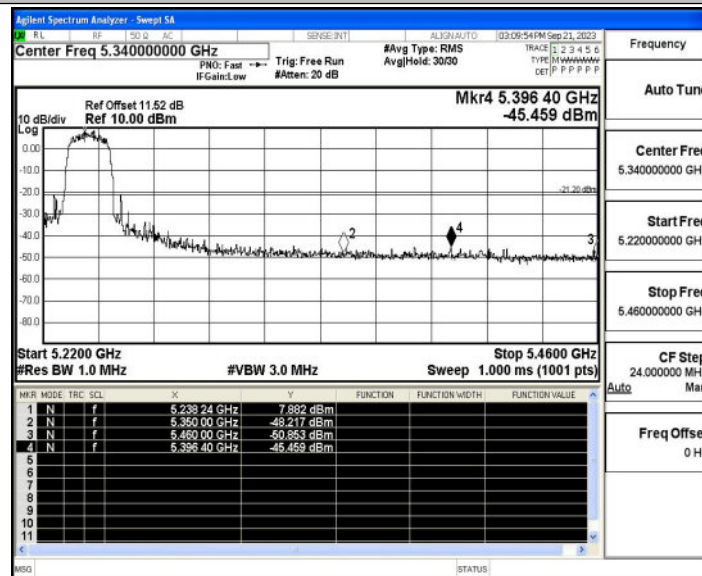
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11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV

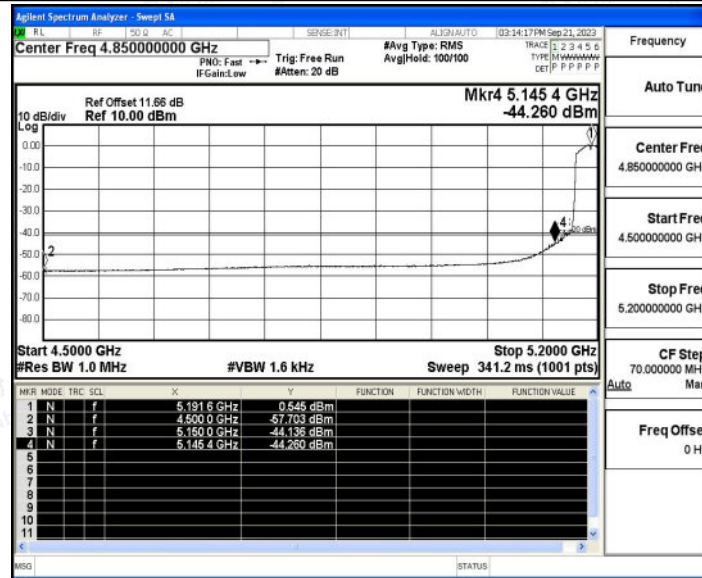


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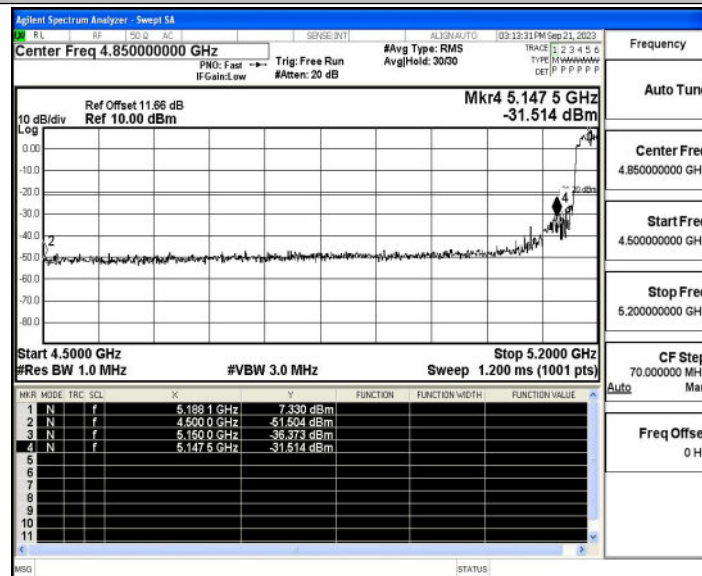
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11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

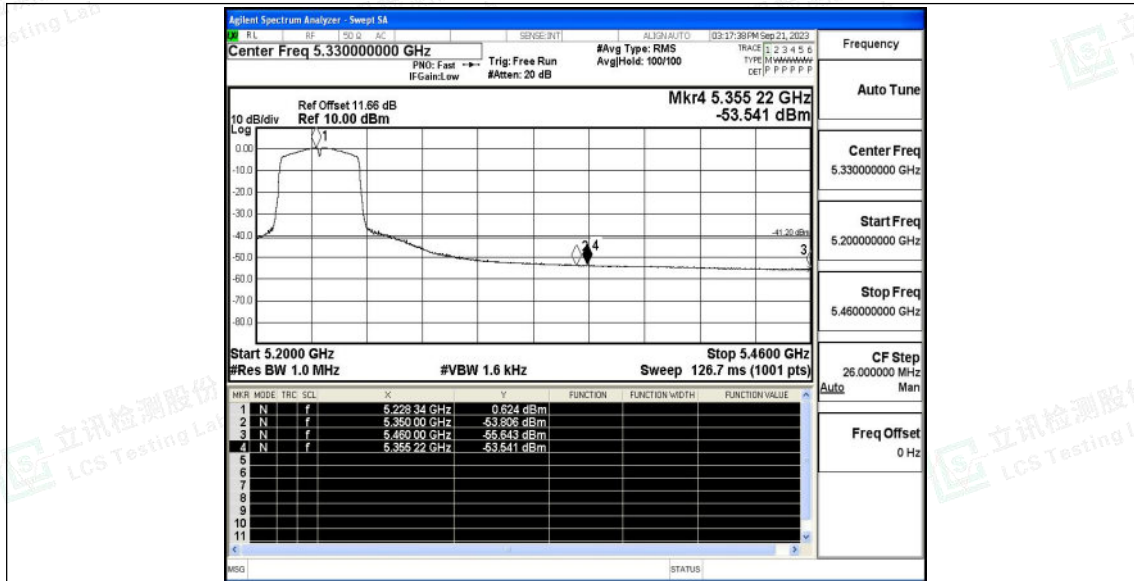


Shenzhen LCS Compliance Testing Laboratory Ltd.

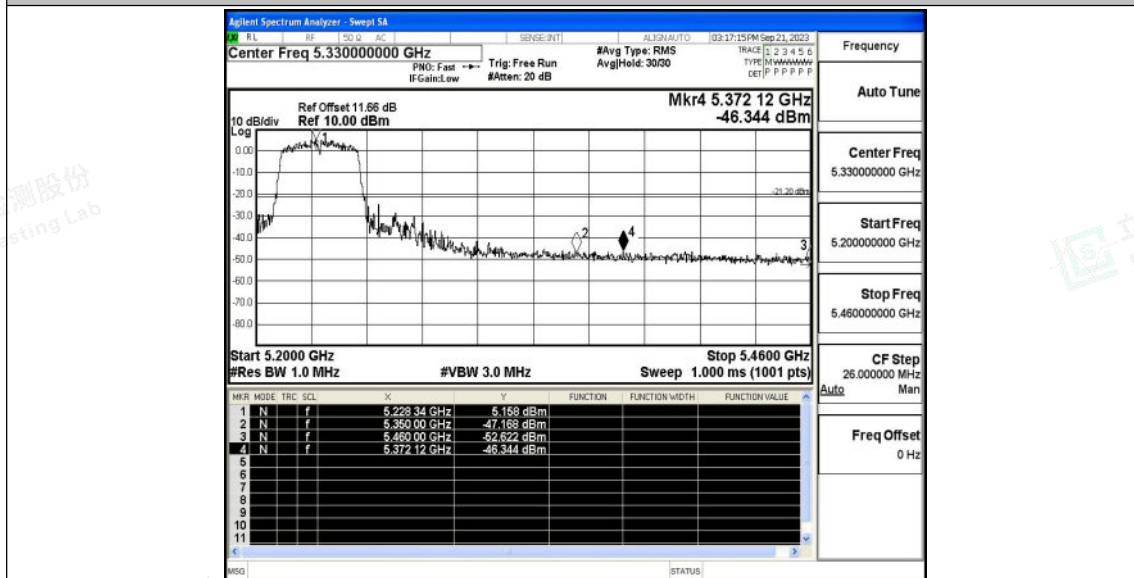
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11AC40SISO_Ant1_High_5230_Peak



11AC80SISO_Ant1_Low_5210_AV

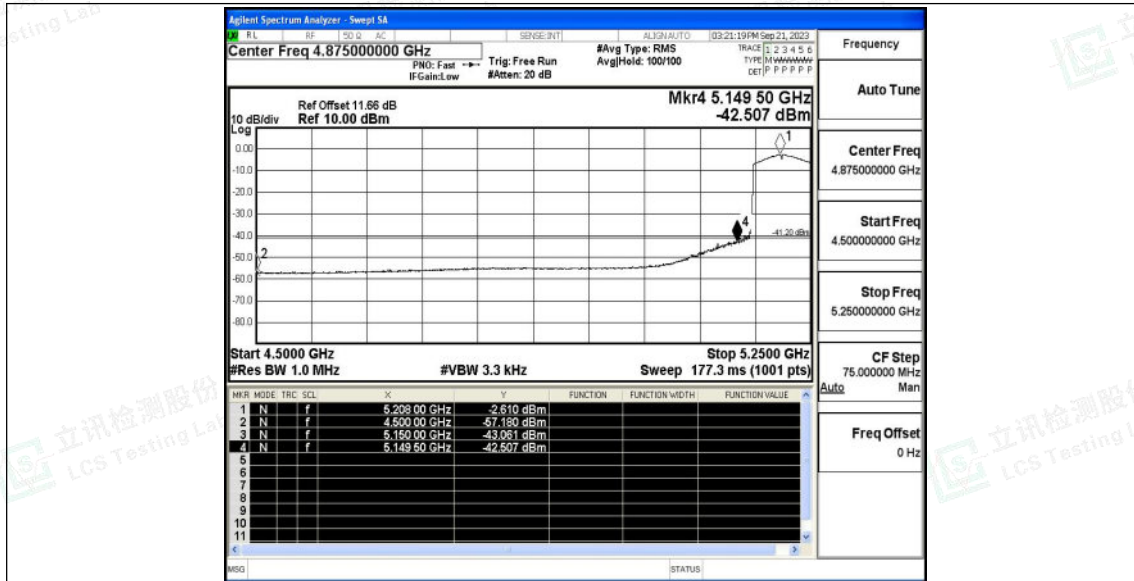


Shenzhen LCS Compliance Testing Laboratory Ltd.

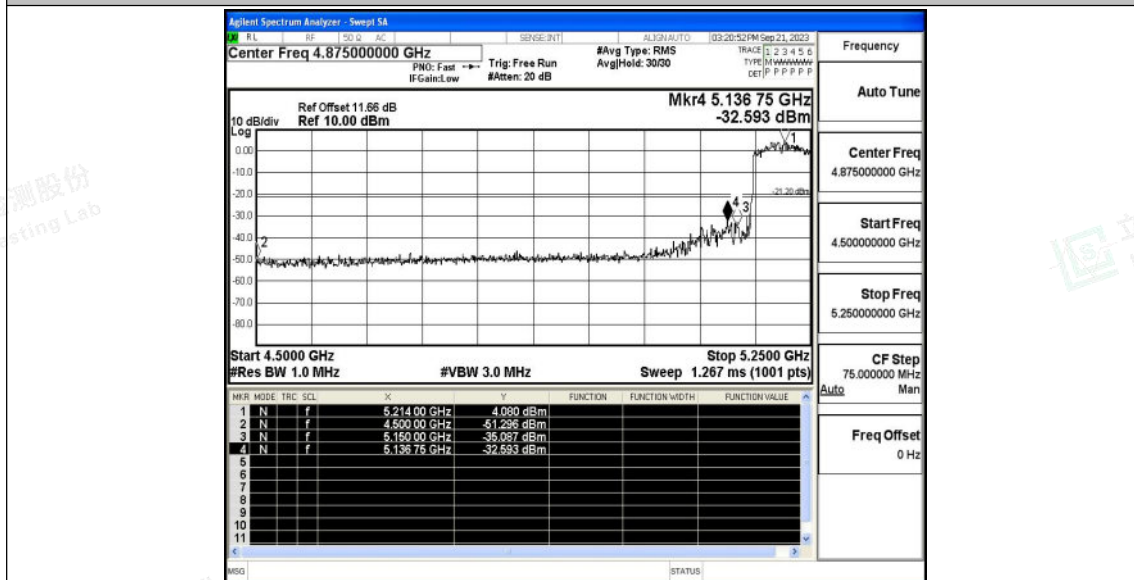
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV

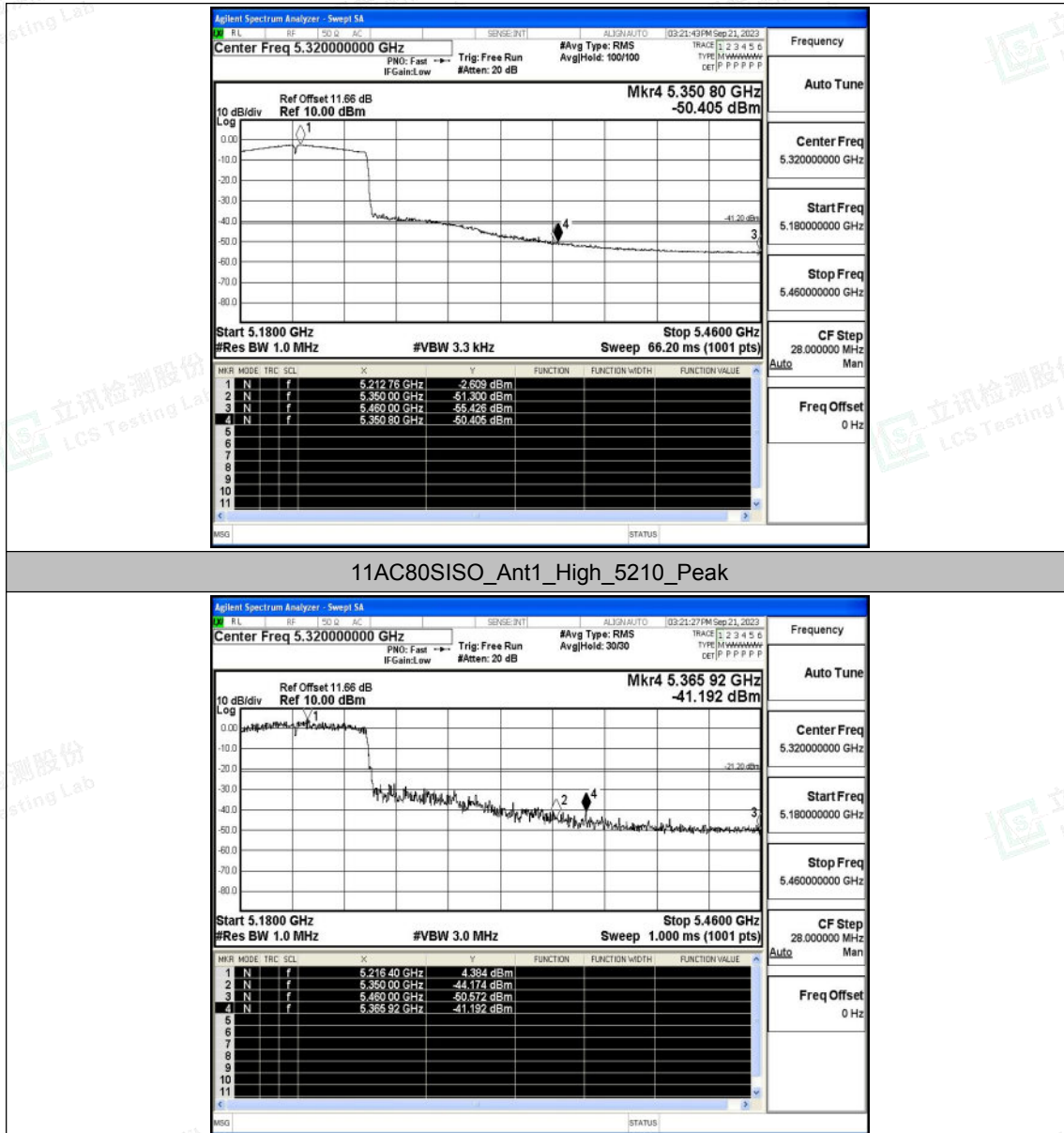


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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
		5220	NV	NT	-20000.00	-3.831418	20	PASS
			LV	NT	-40000.00	-7.662835	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	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS

Temperature								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.861004	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	0.00	0.000000	20	PASS



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			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	-40000.00	-7.662835	20	PASS
			NV	20	-20000.00	-3.831418	20	PASS
			NV	30	-20000.00	-3.831418	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.831418	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	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	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
11N40SI SO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.707129	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5230	NV	50	-40000.00	-7.707129	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	-40000.00	-7.648184	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	80000.00	15.296367	20	PASS
11AC80S ISO	Ant1	5210	NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
			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	0.00	0.000000	20	PASS



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			NV	10	-80000.00	-15.355086	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	15.355086	20	PASS

D.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.44	96.53
		5220	1.39	1.44	96.53
		5240	1.39	1.43	97.20
11N20SISO	Ant1	5180	1.29	1.33	96.99
		5220	1.29	1.34	96.27
		5240	1.29	1.34	96.27
11N40SISO	Ant1	5190	0.63	0.68	92.65
		5230	0.63	0.68	92.65
11AC20SISO	Ant1	5180	1.31	1.36	96.32
		5220	1.30	1.35	96.30
		5240	1.31	1.36	96.32
11AC40SISO	Ant1	5190	0.65	0.69	94.20
		5230	0.65	0.70	92.86
11AC80SISO	Ant1	5210	0.32	0.37	86.49

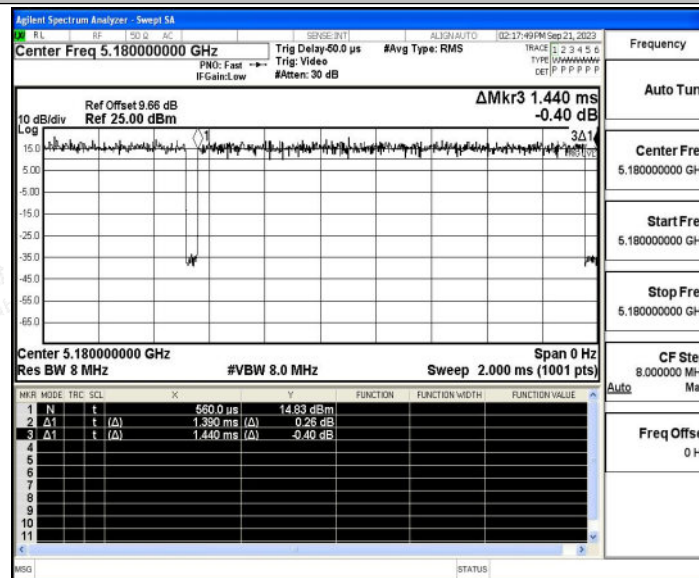


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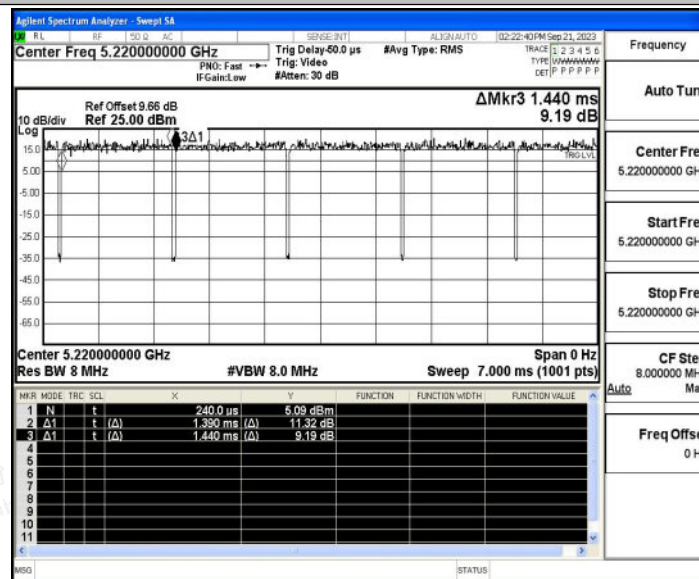


Test Graphs

11A_Ant1_5180

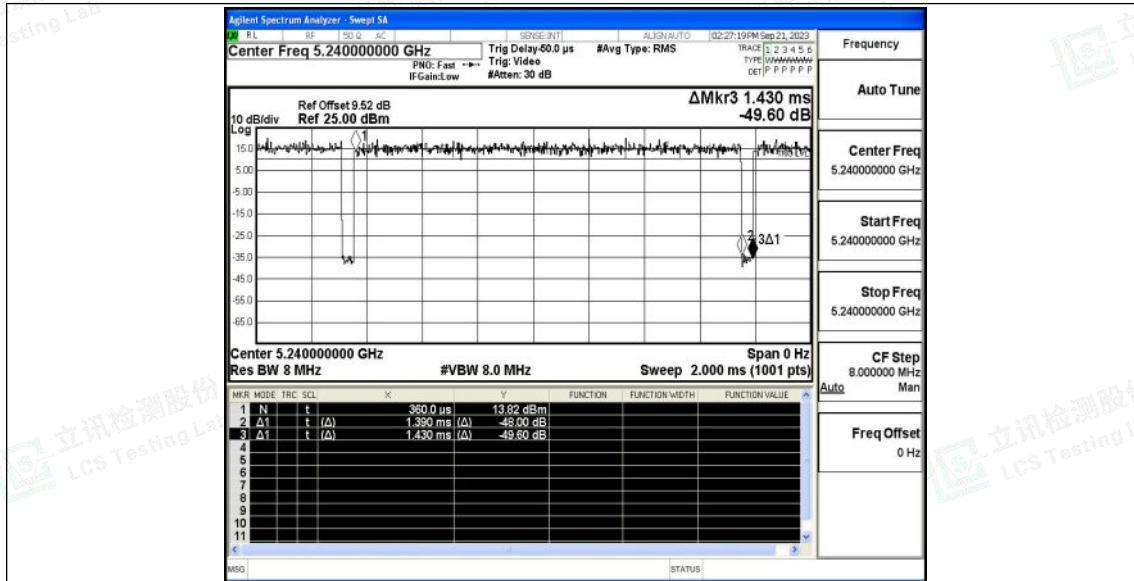


11A_Ant1_5220

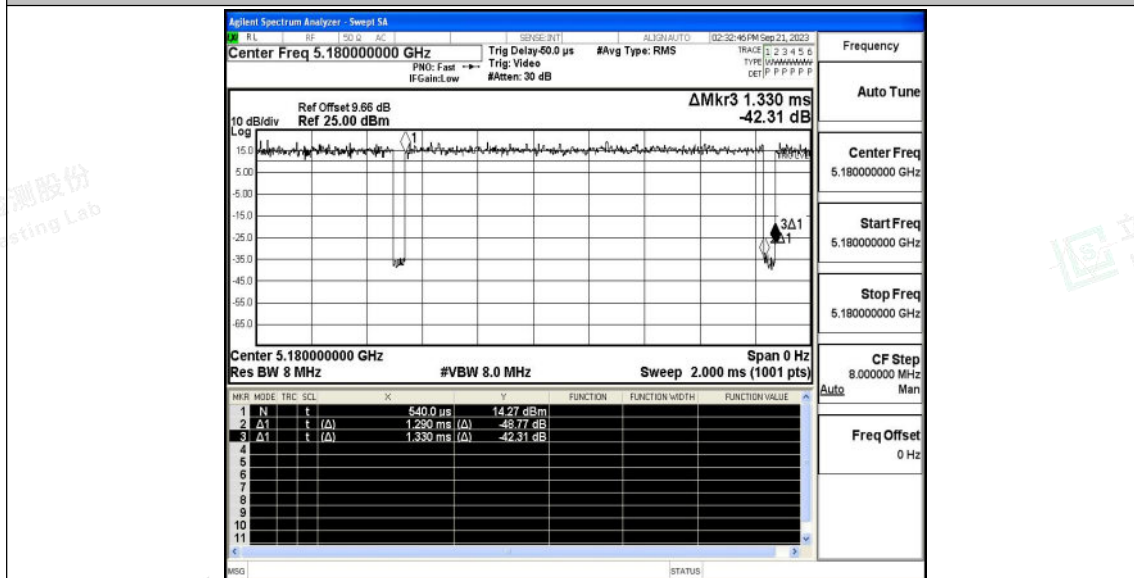


11A_Ant1_5240





11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

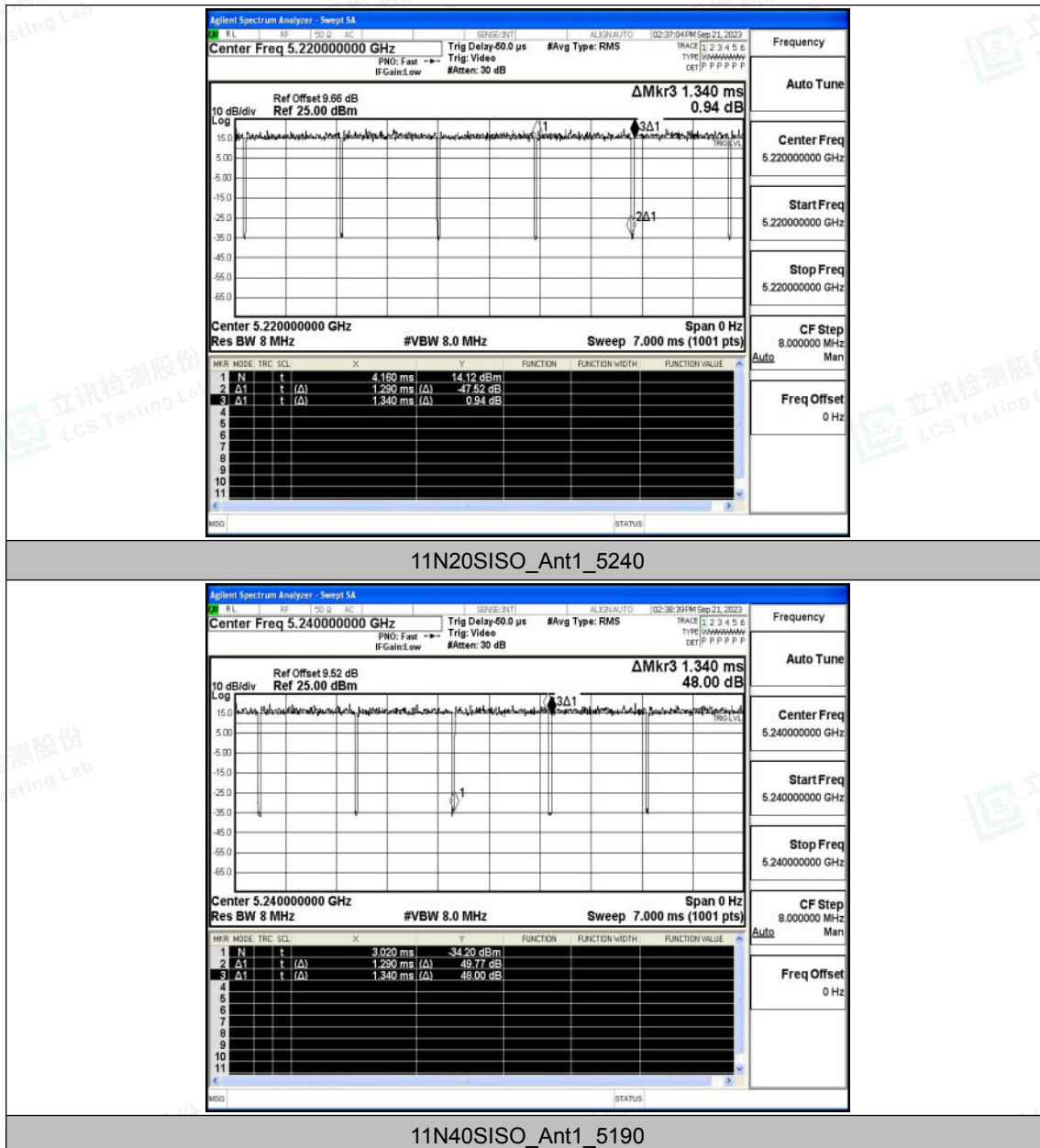


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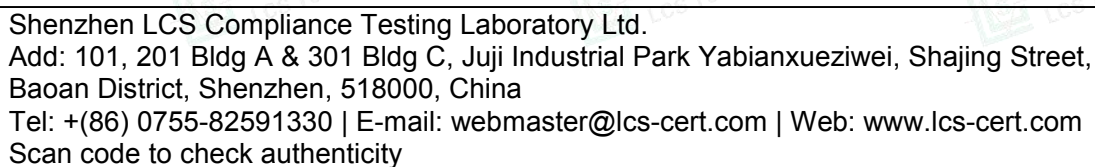


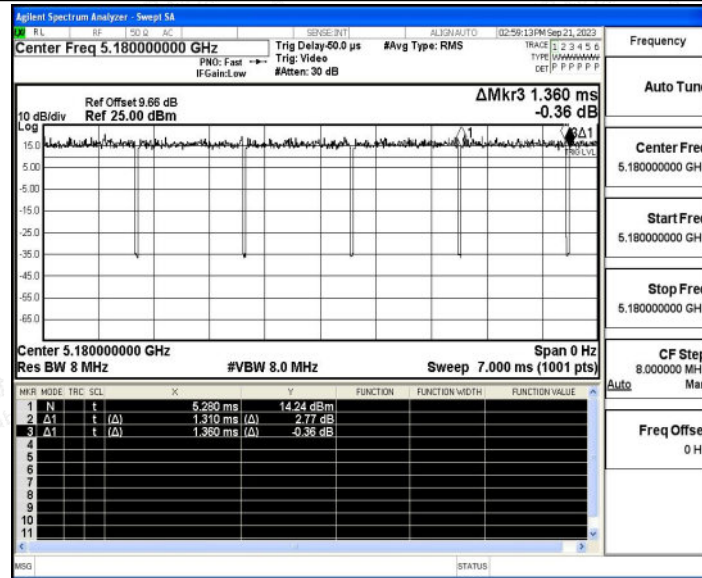
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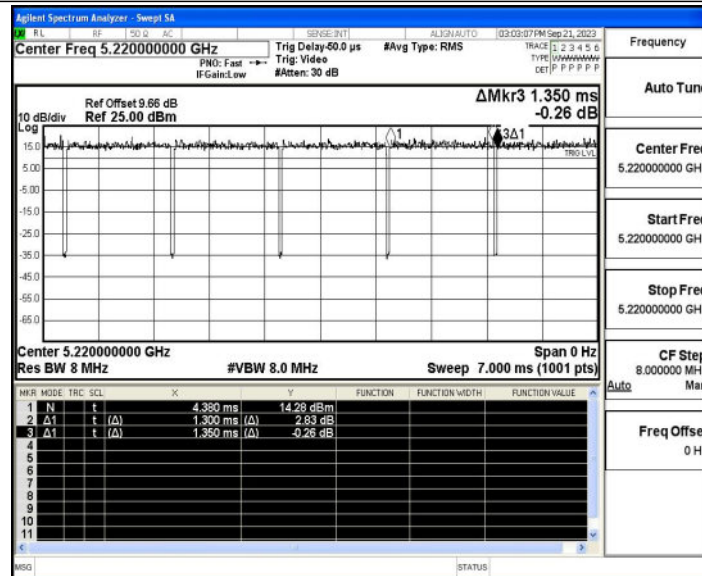
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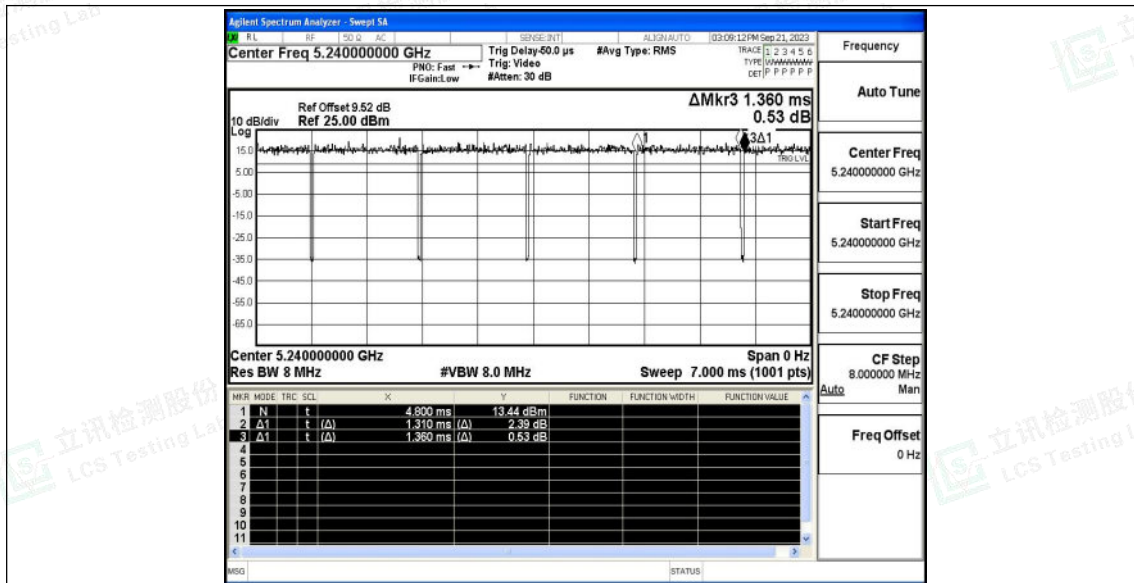


11AC20SISO_Ant1_5220

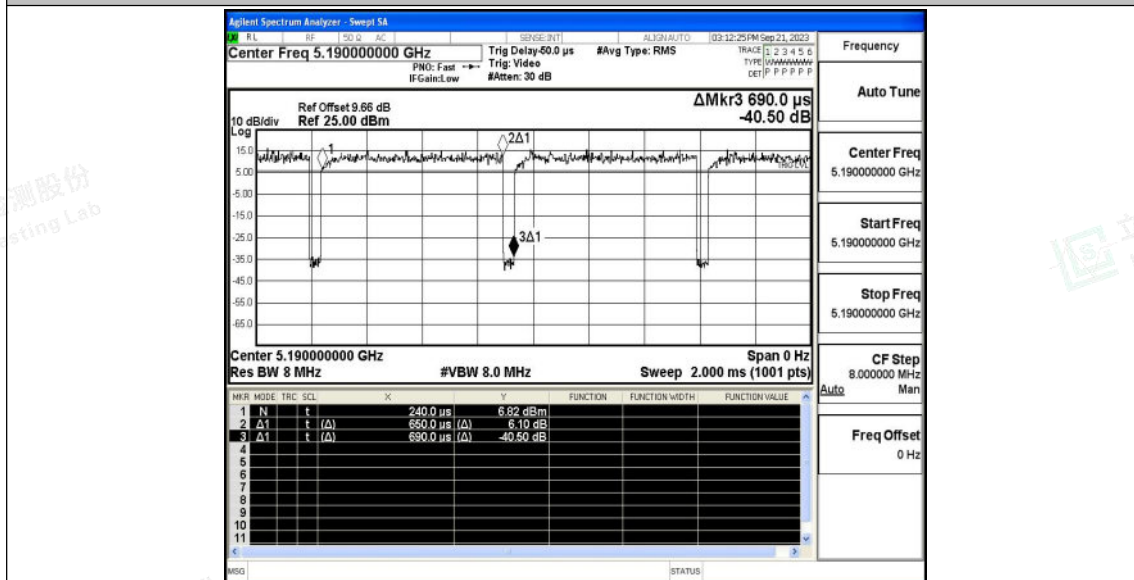


11AC20SISO_Ant1_5240





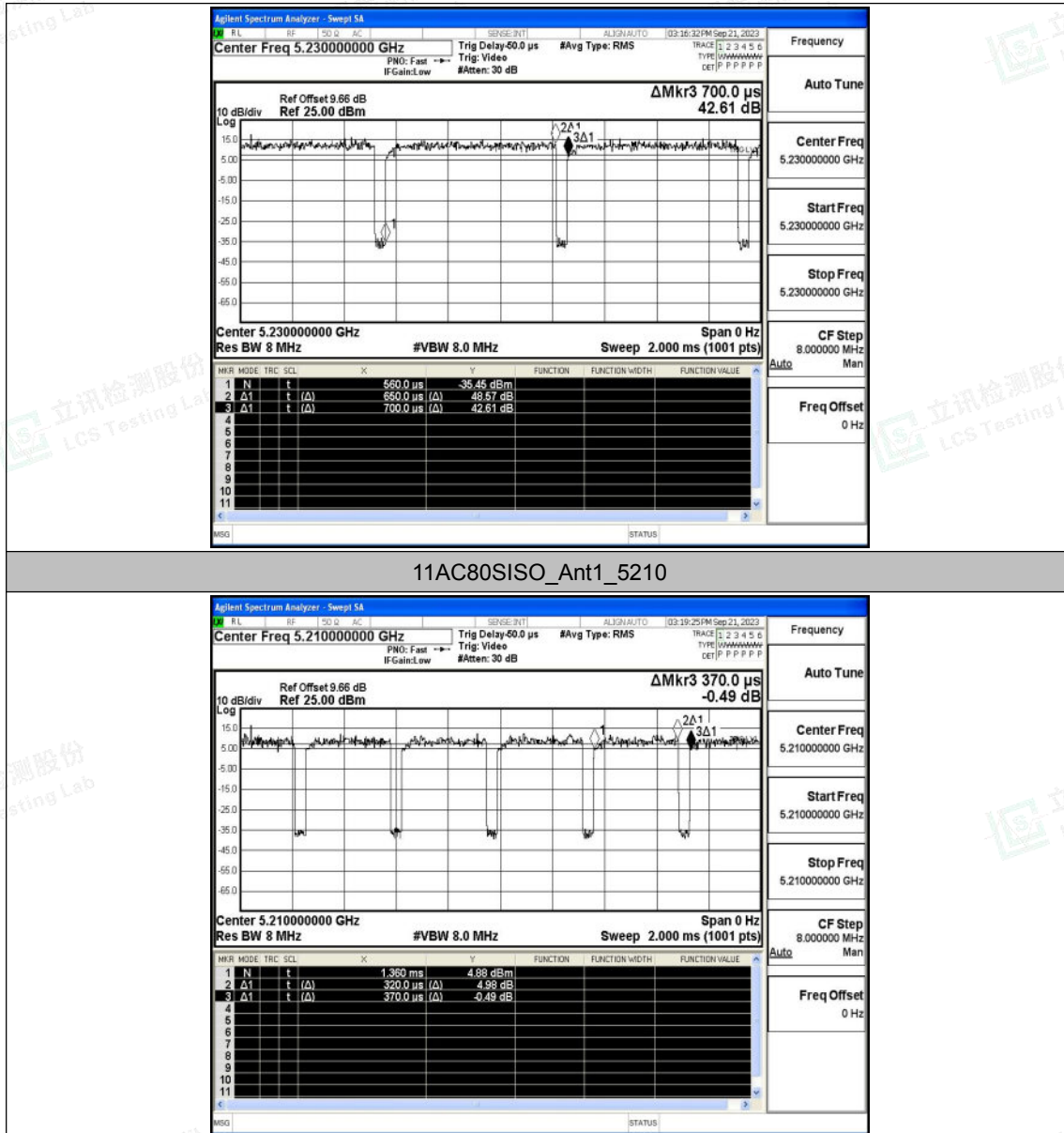
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



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