



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Portable Power Station

Test Model: STC 02/2.5

Environmental Conditions

Temperature:	23.1 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2406.960	2416.520	0.5	PASS
		2437	9.560	2432.480	2442.040	0.5	PASS
		2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	16.040	2403.840	2419.880	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.160	2404.480	2420.640	0.5	PASS
		2437	16.560	2428.240	2444.800	0.5	PASS
		2462	16.960	2453.680	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	34.240	2419.080	2453.320	0.5	PASS
		2452	36.400	2433.760	2470.160	0.5	PASS

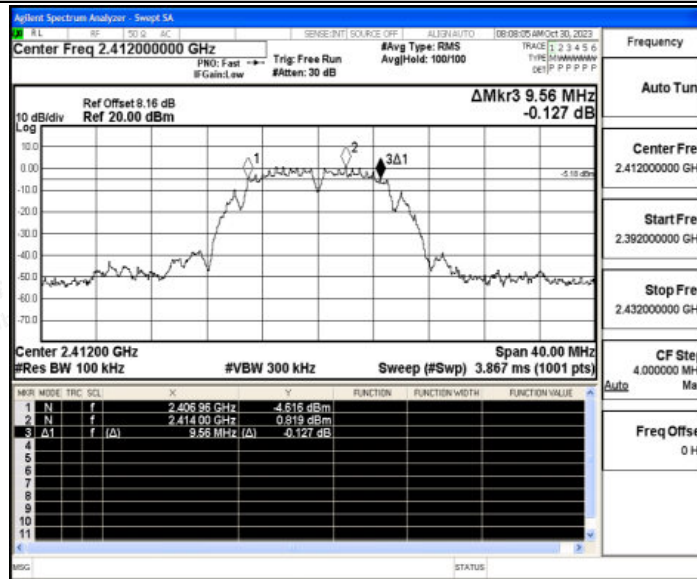


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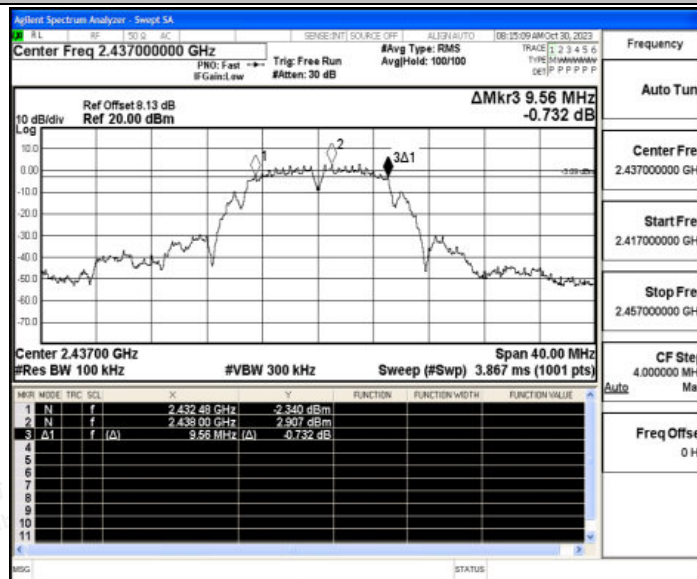


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

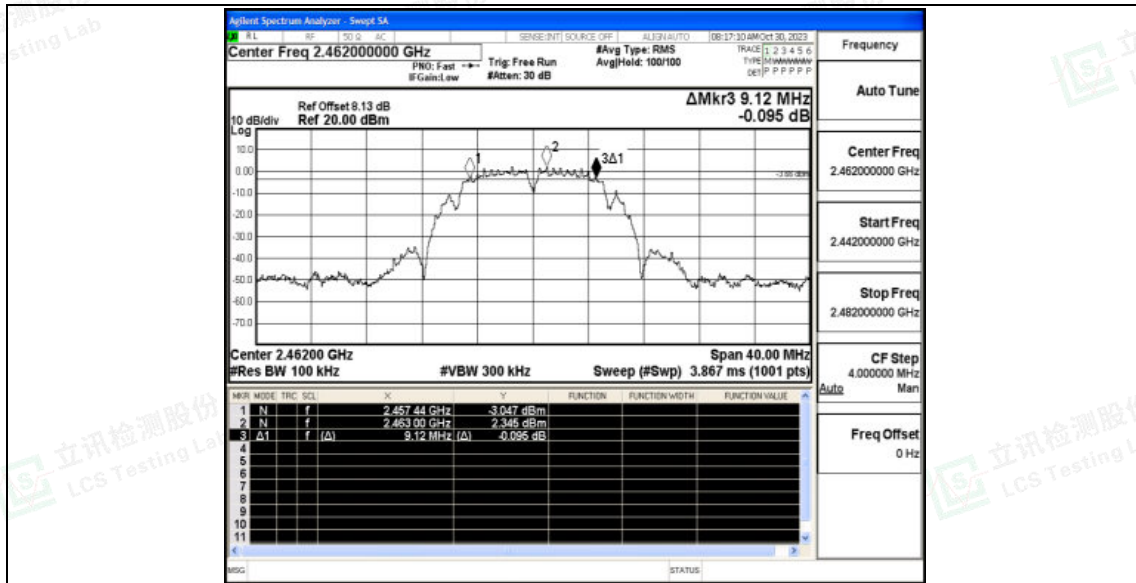


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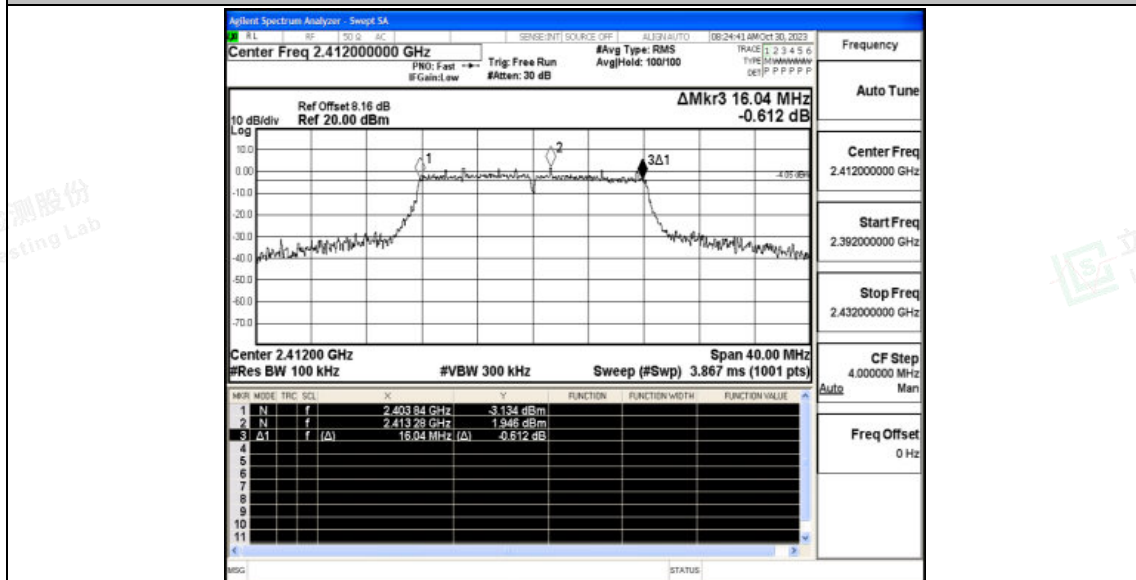
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11G_Ant1_2412



11G_Ant1_2437

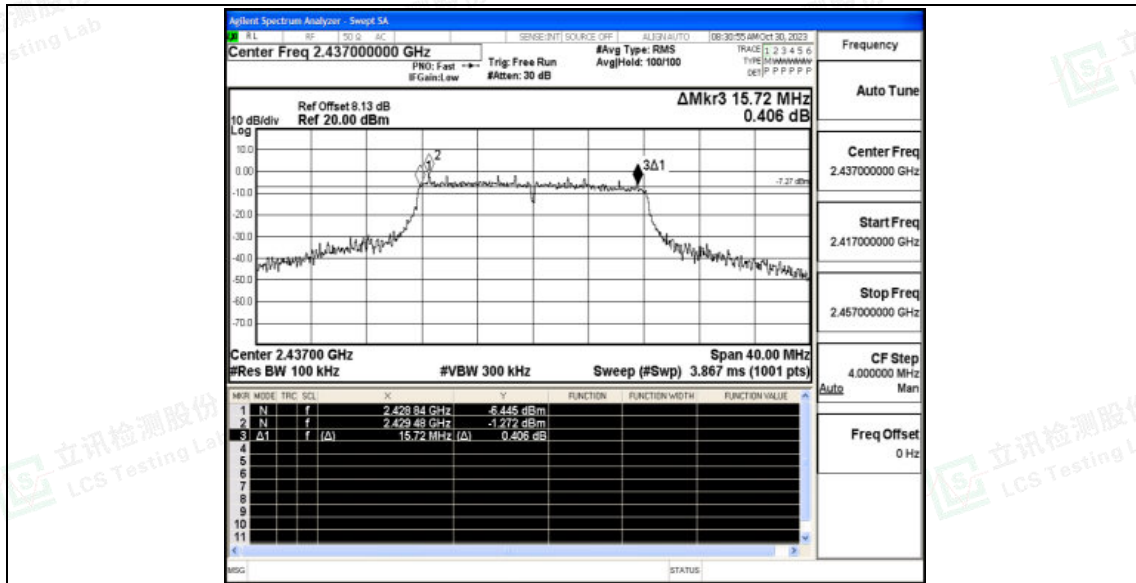


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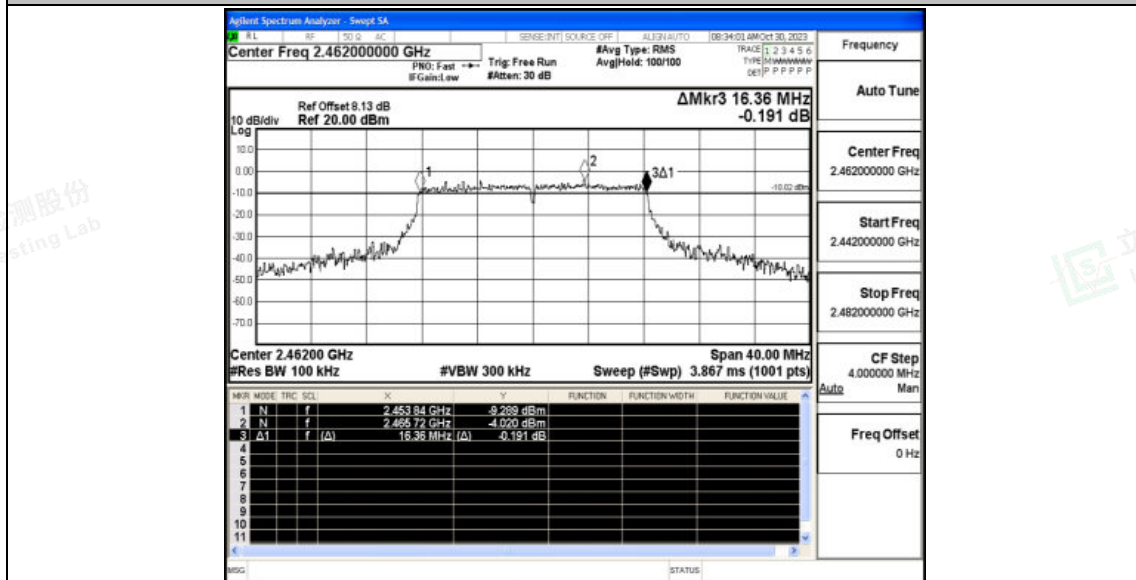
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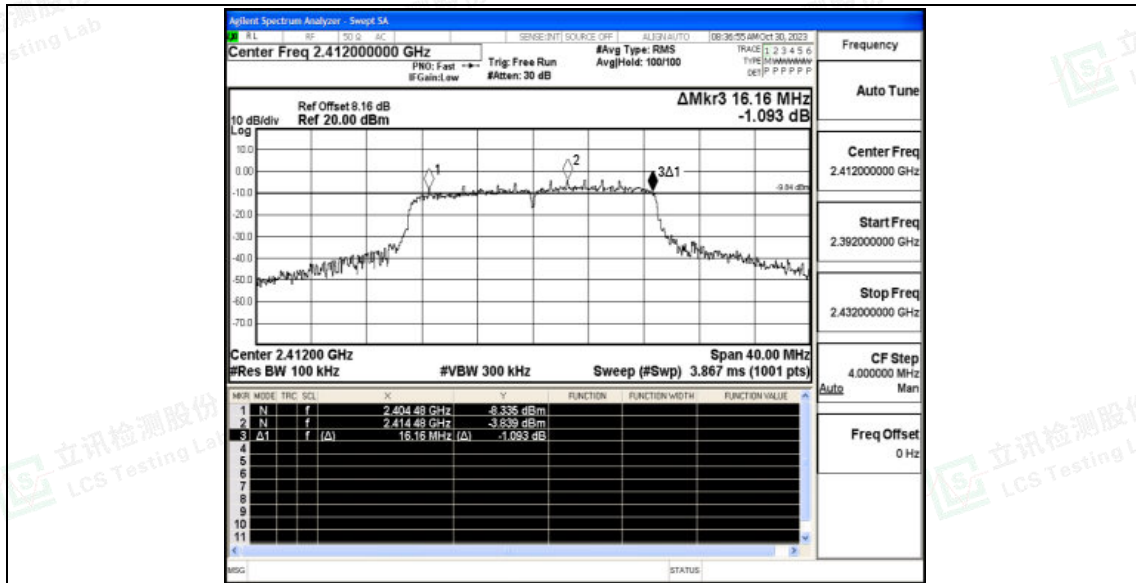
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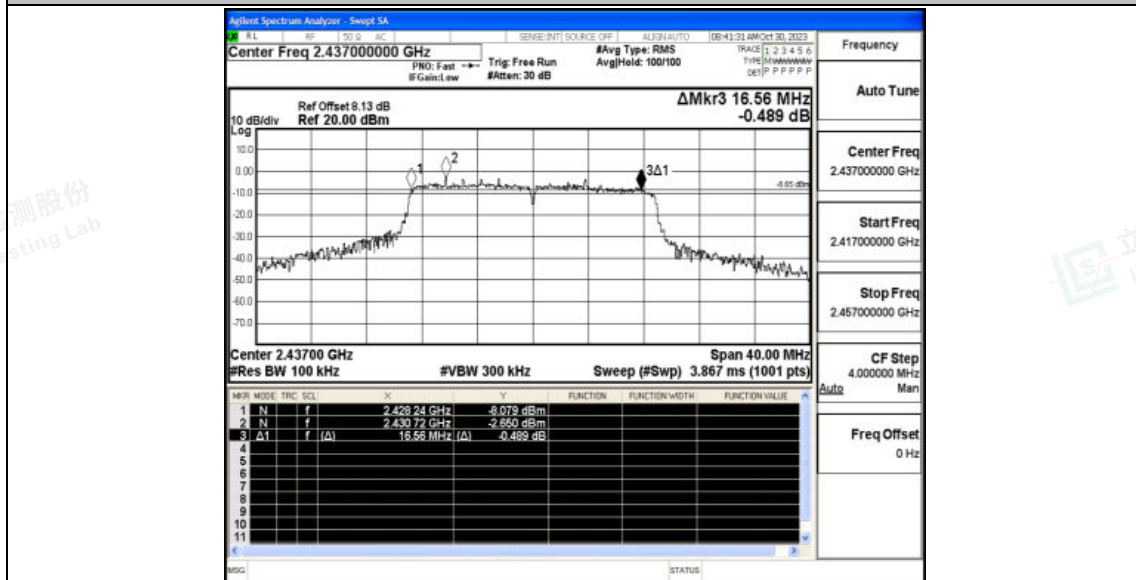
11N20SISO_Ant1_2412



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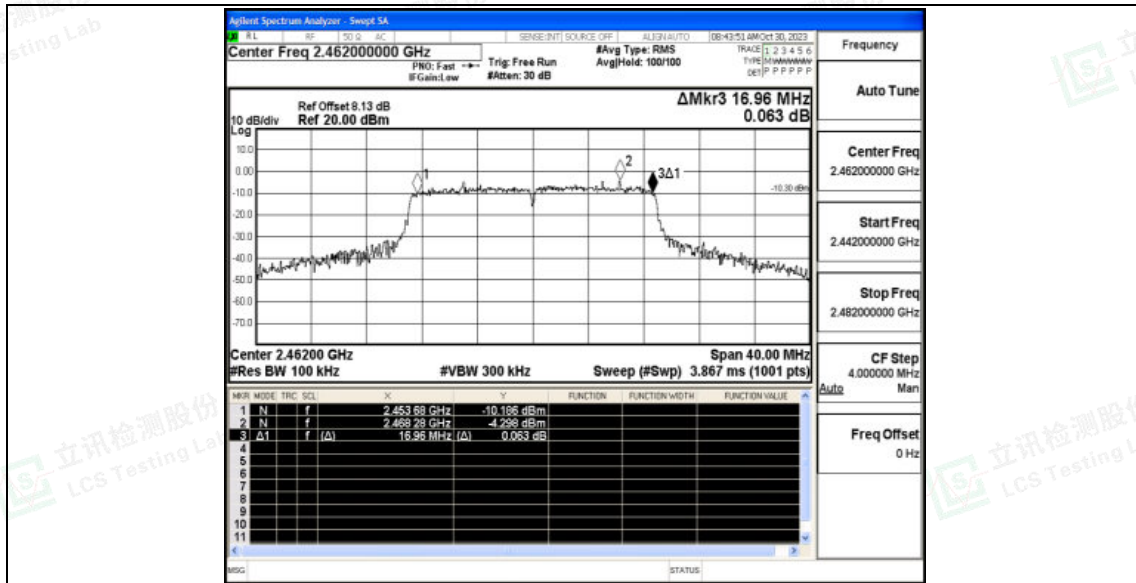
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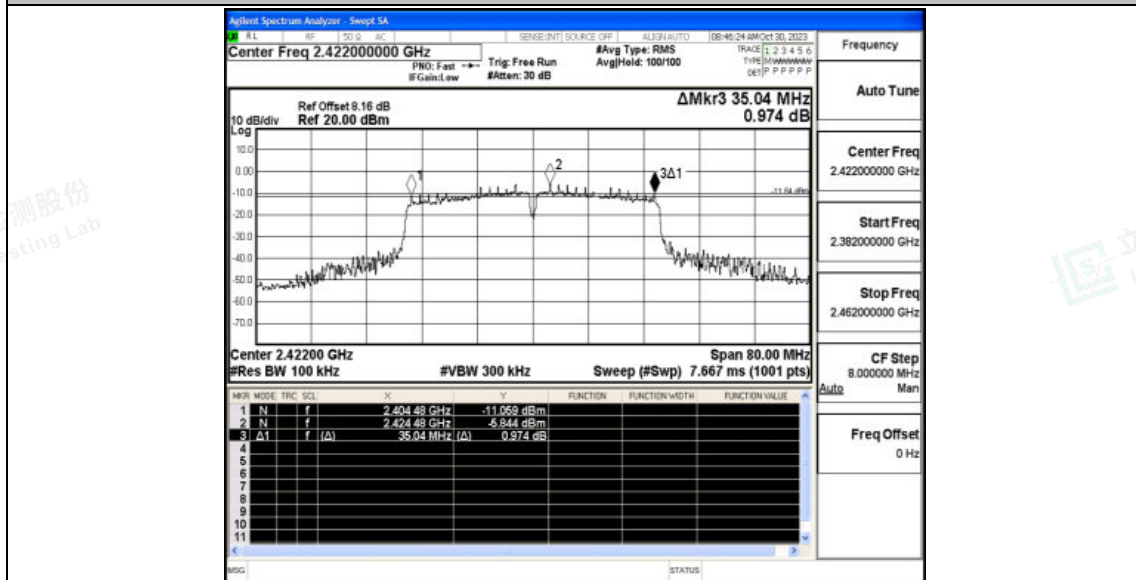
11N20SISO_Ant1_2462



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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

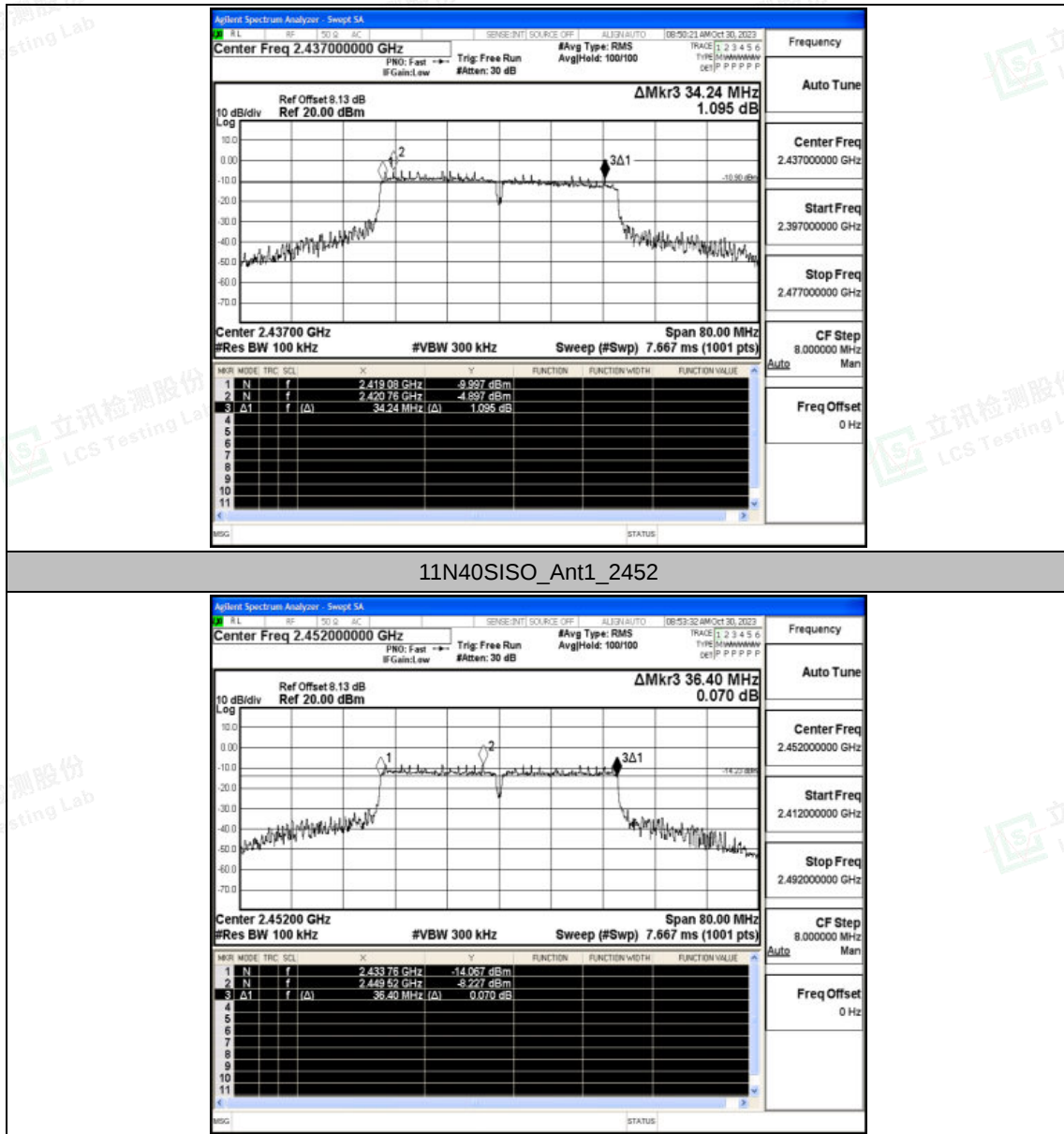


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A.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.25	≤30.00	PASS
		2437	14.93	≤30.00	PASS
		2462	14.59	≤30.00	PASS
11G	Ant1	2412	14.11	≤30.00	PASS
		2437	15.53	≤30.00	PASS
		2462	14.56	≤30.00	PASS
11N20SISO	Ant1	2412	13.12	≤30.00	PASS
		2437	14.80	≤30.00	PASS
		2462	13.71	≤30.00	PASS
11N40SISO	Ant1	2422	13.23	≤30.00	PASS
		2437	14.80	≤30.00	PASS
		2452	12.42	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.53	≤8.00	PASS
		2437	-8.06	≤8.00	PASS
		2462	-8.52	≤8.00	PASS
11G	Ant1	2412	-17.65	≤8.00	PASS
		2437	-16.1	≤8.00	PASS
		2462	-17.38	≤8.00	PASS
11N20SISO	Ant1	2412	-18.68	≤8.00	PASS
		2437	-16.78	≤8.00	PASS
		2462	-17.76	≤8.00	PASS
11N40SISO	Ant1	2422	-21.06	≤8.00	PASS
		2437	-19.19	≤8.00	PASS
		2452	-22.57	≤8.00	PASS

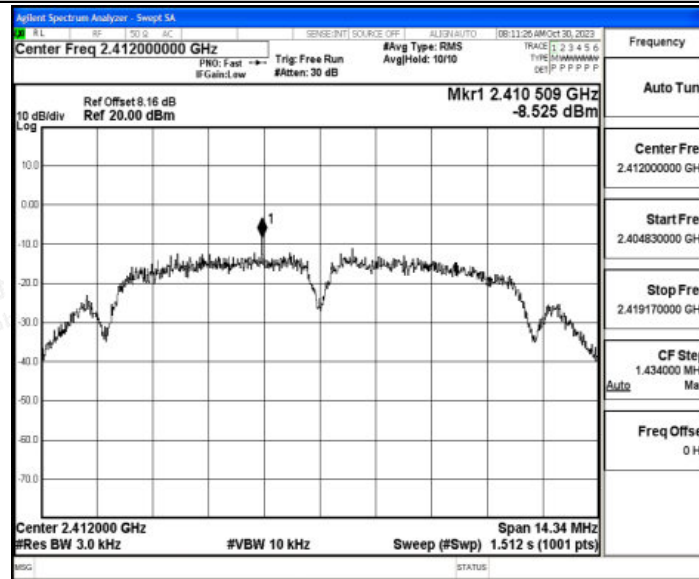


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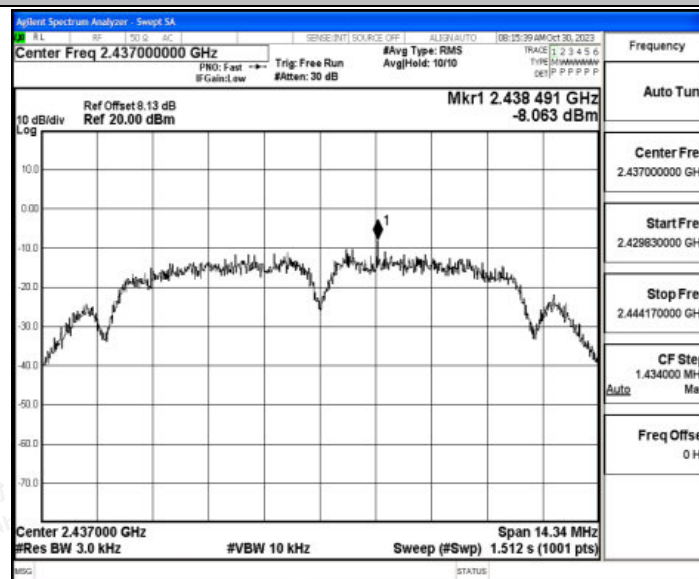


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

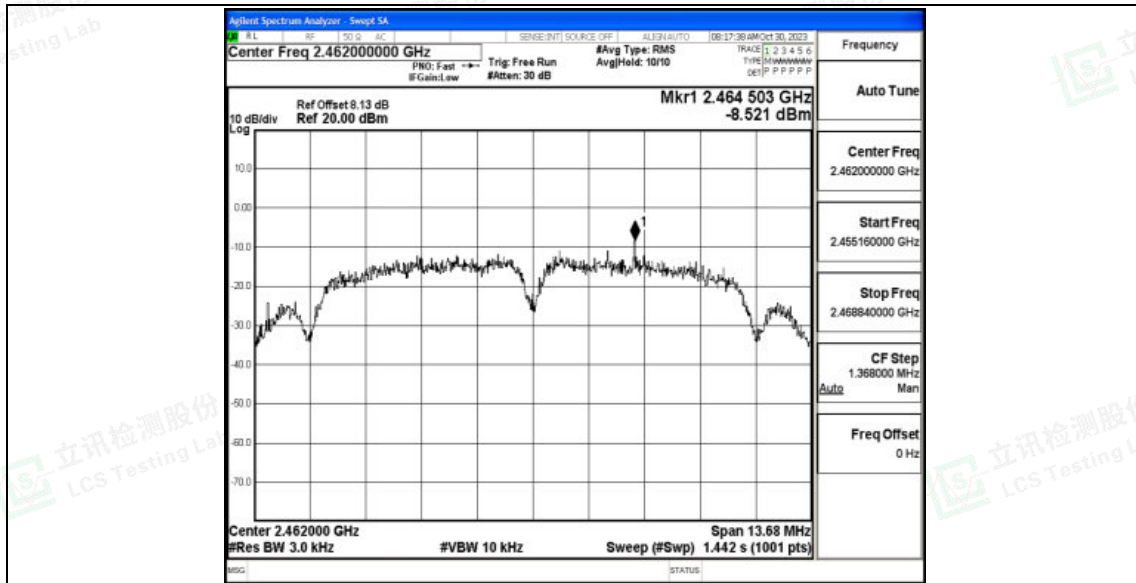


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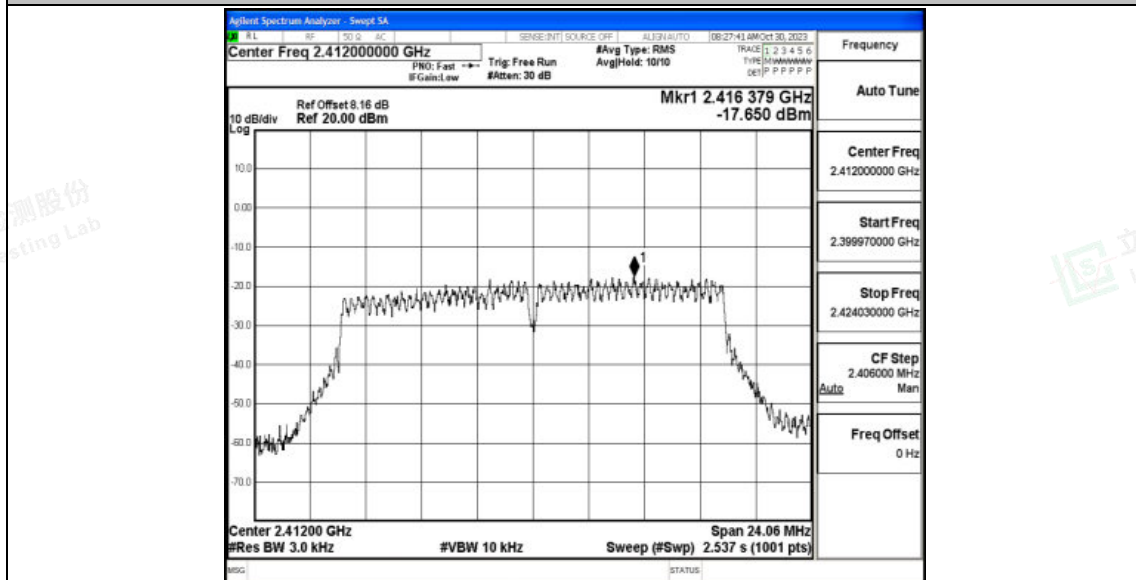
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11G_Ant1_2412



11G_Ant1_2437

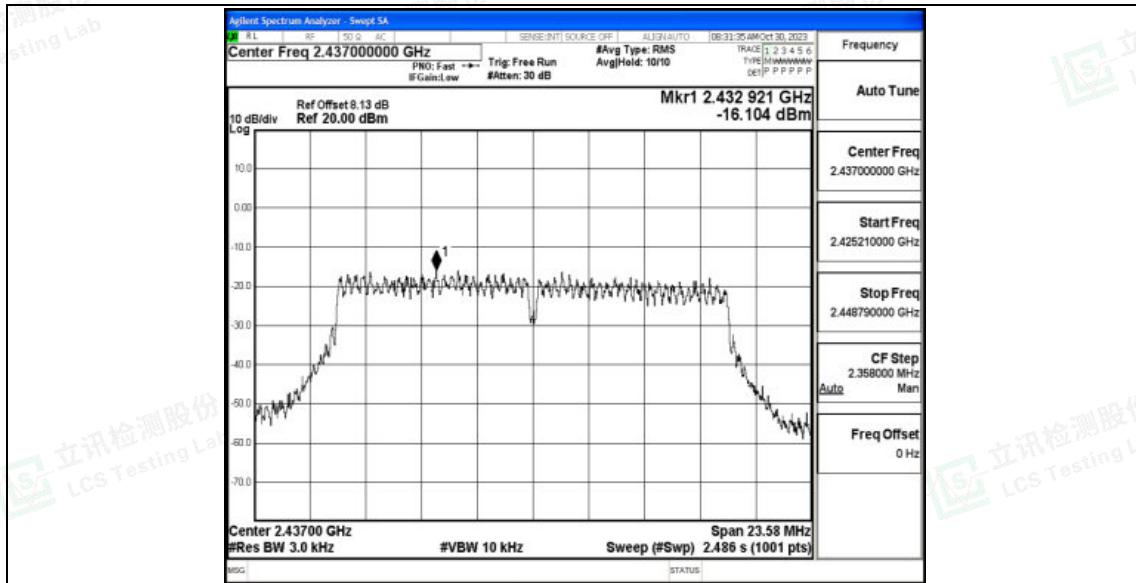


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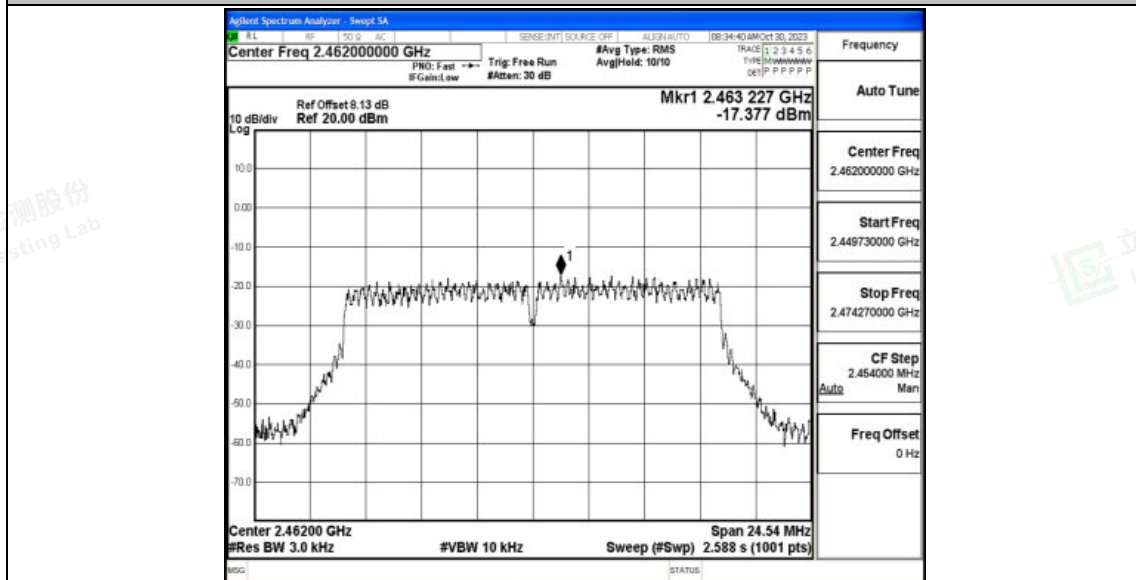
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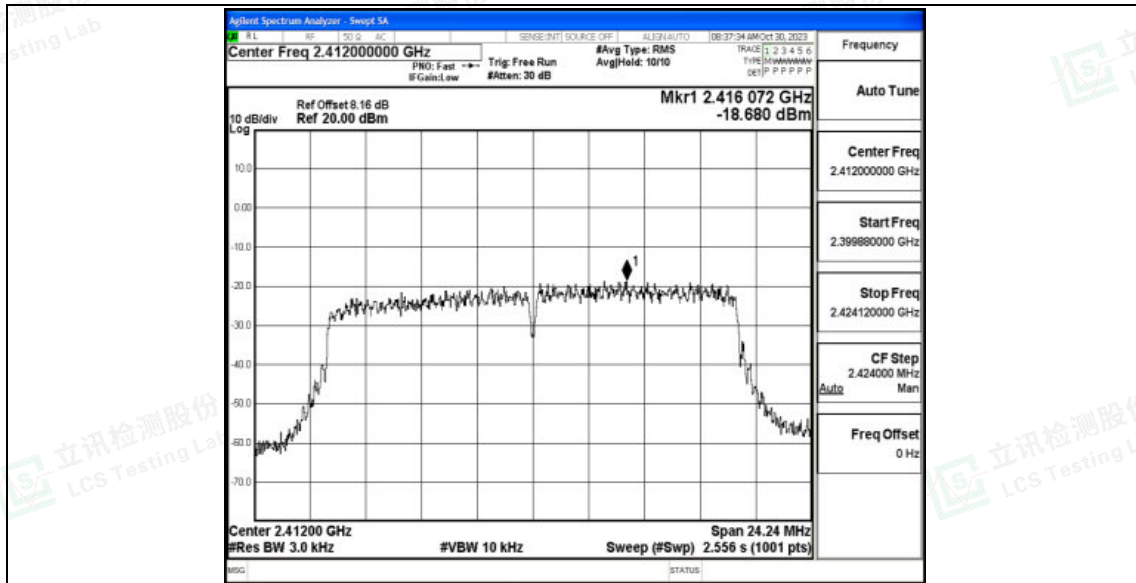


11G_Ant1_2462

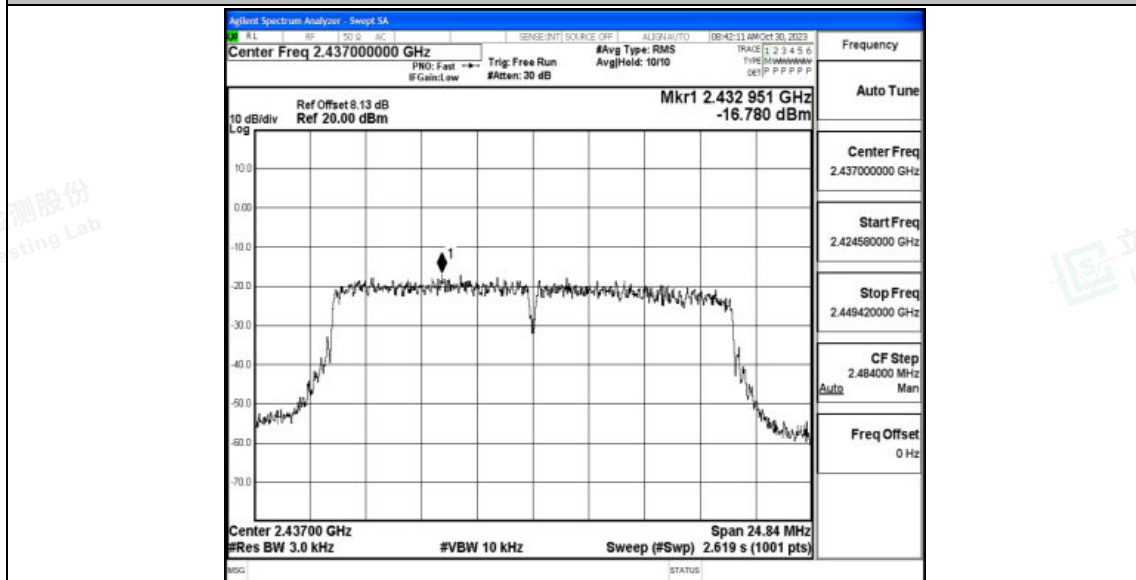


11N20SISO_Ant1_2412



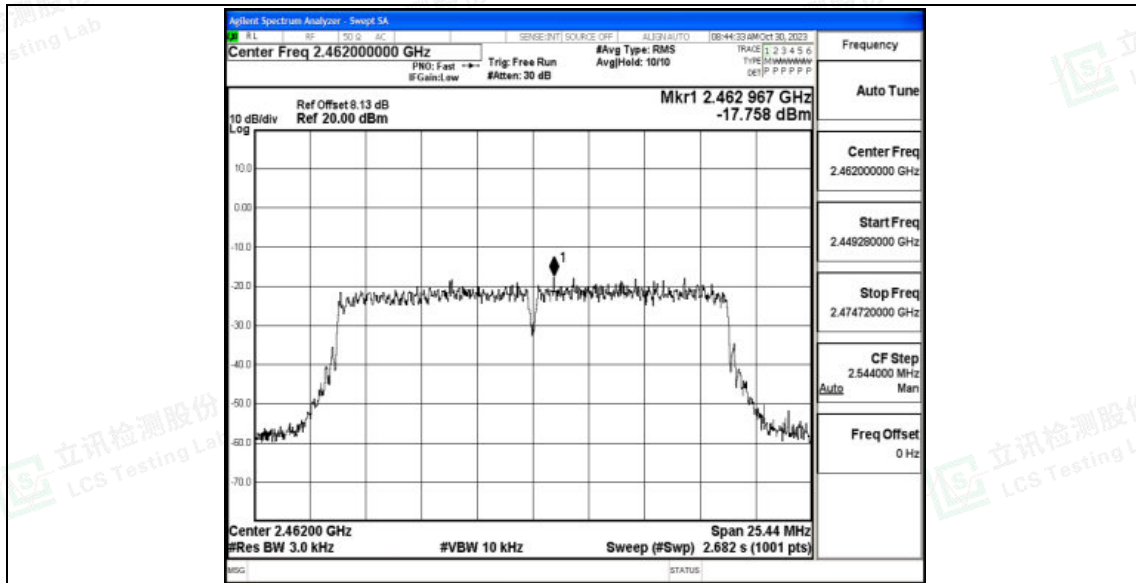


11N20SISO_Ant1_2437

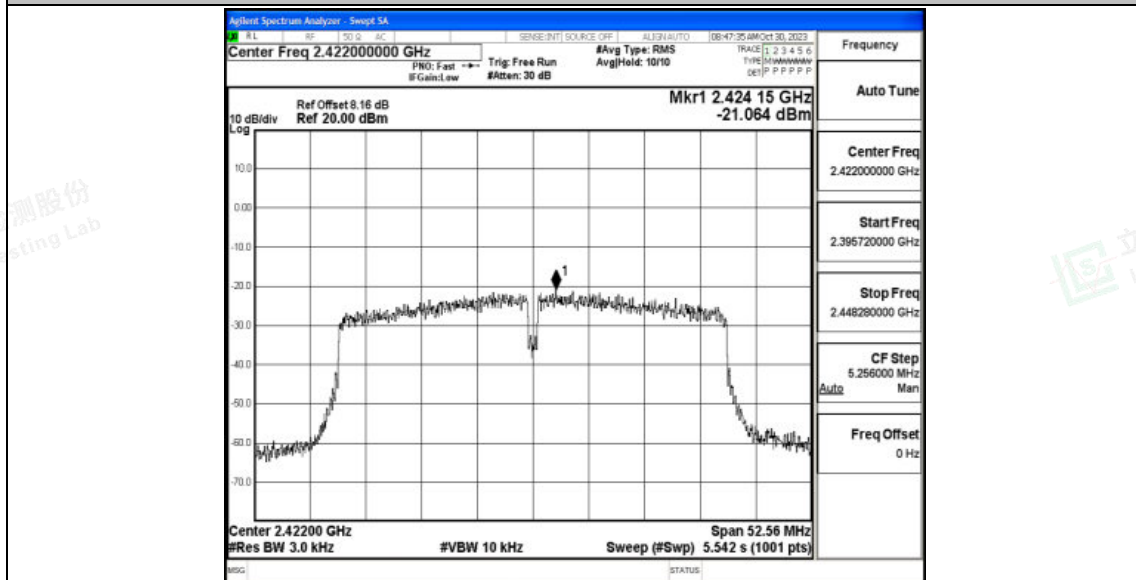


11N20SISO_Ant1_2462



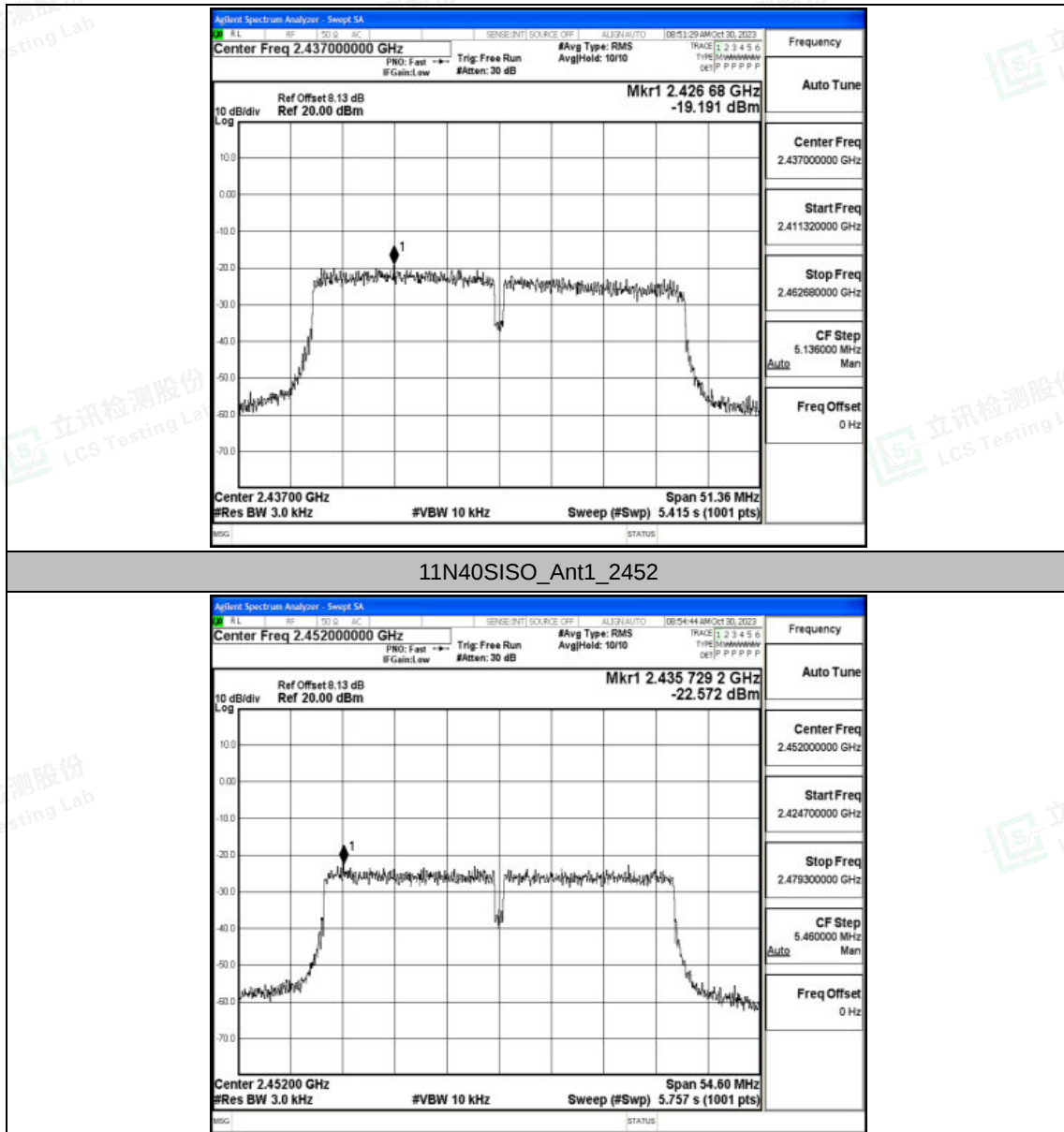


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437





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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.37	-44.18	≤ -18.63	PASS
		High	2462	2.64	-49.78	≤ -17.36	PASS
11G	Ant1	Low	2412	-2.89	-38.2	≤ -22.89	PASS
		High	2462	-2.59	-47.87	≤ -22.59	PASS
11N20SISO	Ant1	Low	2412	-3.84	-37.42	≤ -23.84	PASS
		High	2462	-3.59	-49.06	≤ -23.59	PASS
11N40SISO	Ant1	Low	2422	-5.87	-37.32	≤ -25.87	PASS
		High	2452	-7.46	-41.02	≤ -27.46	PASS

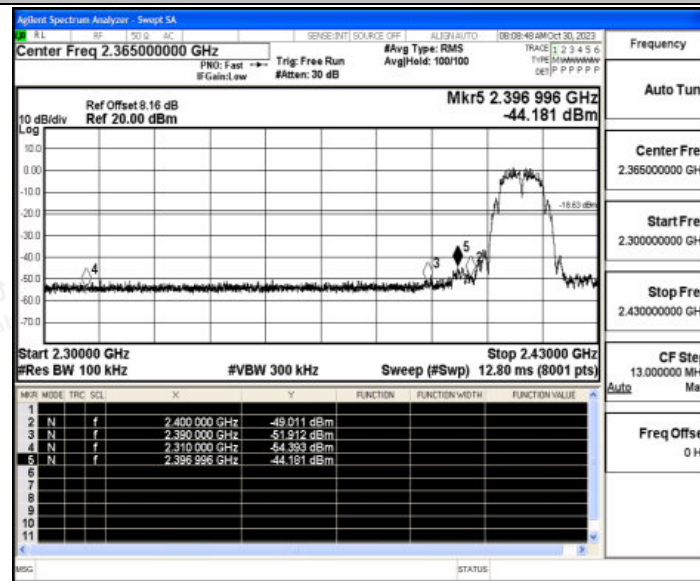


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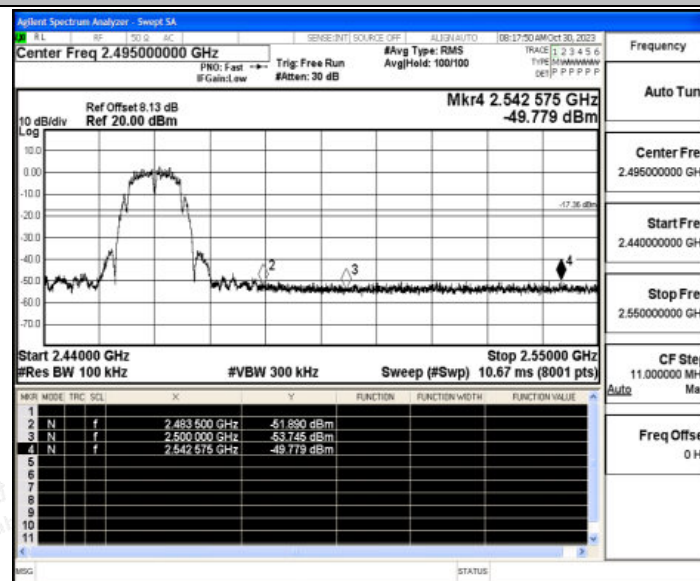


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

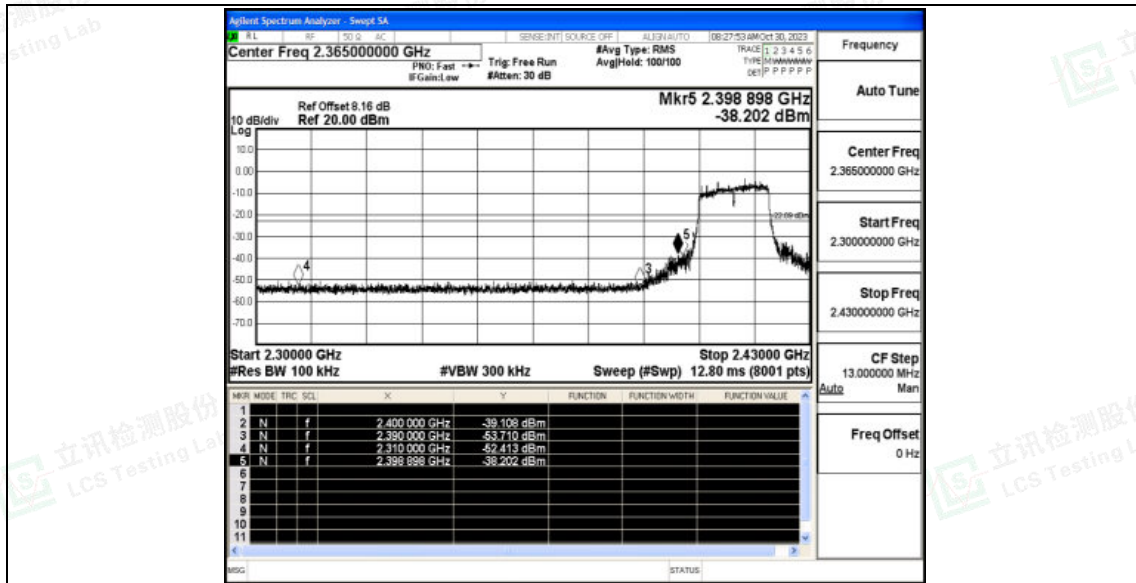


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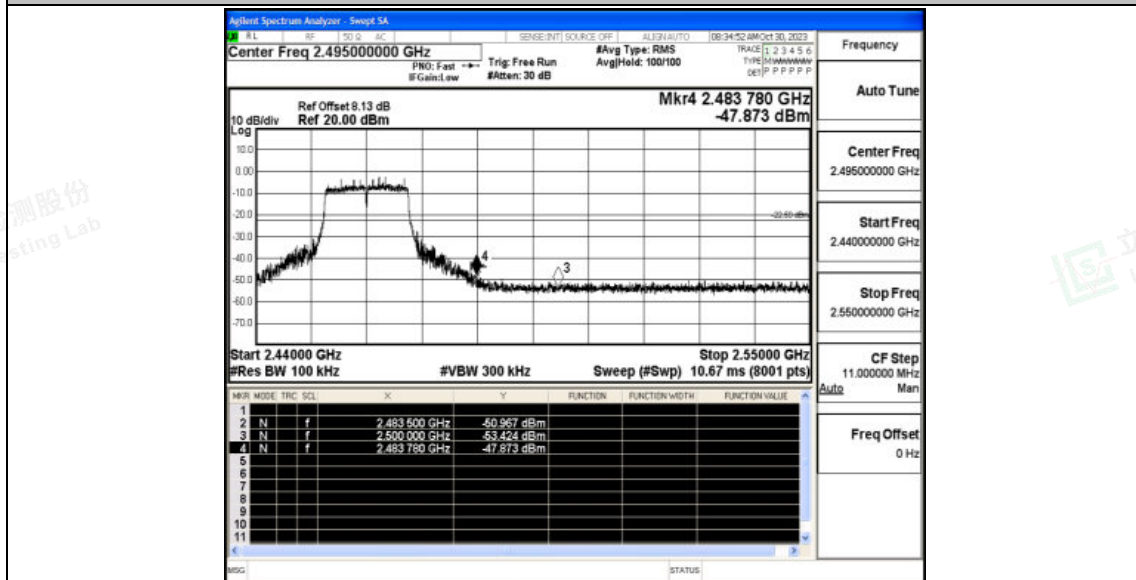
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

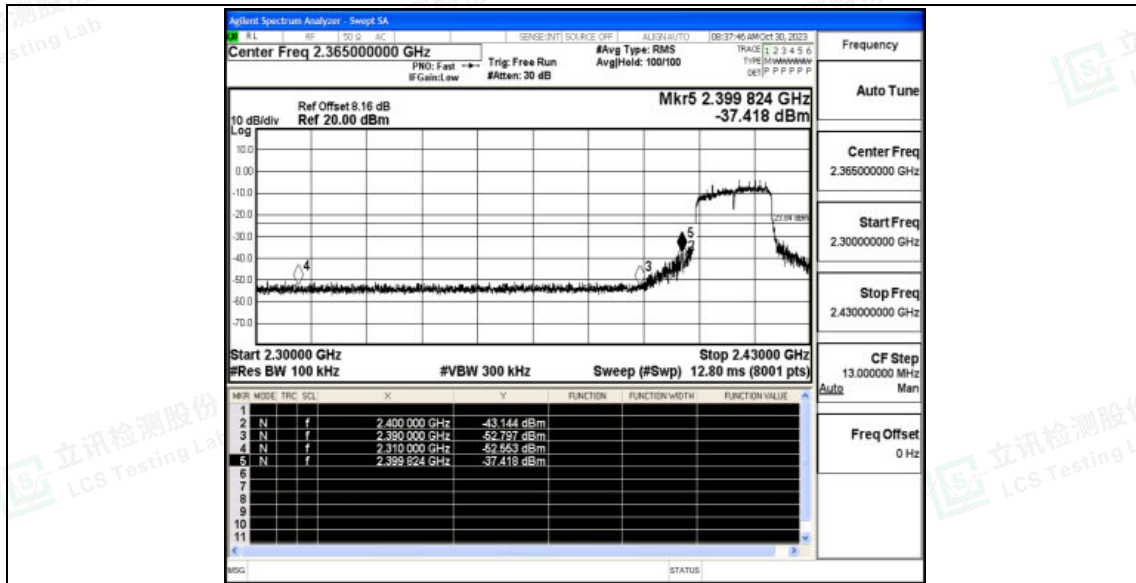


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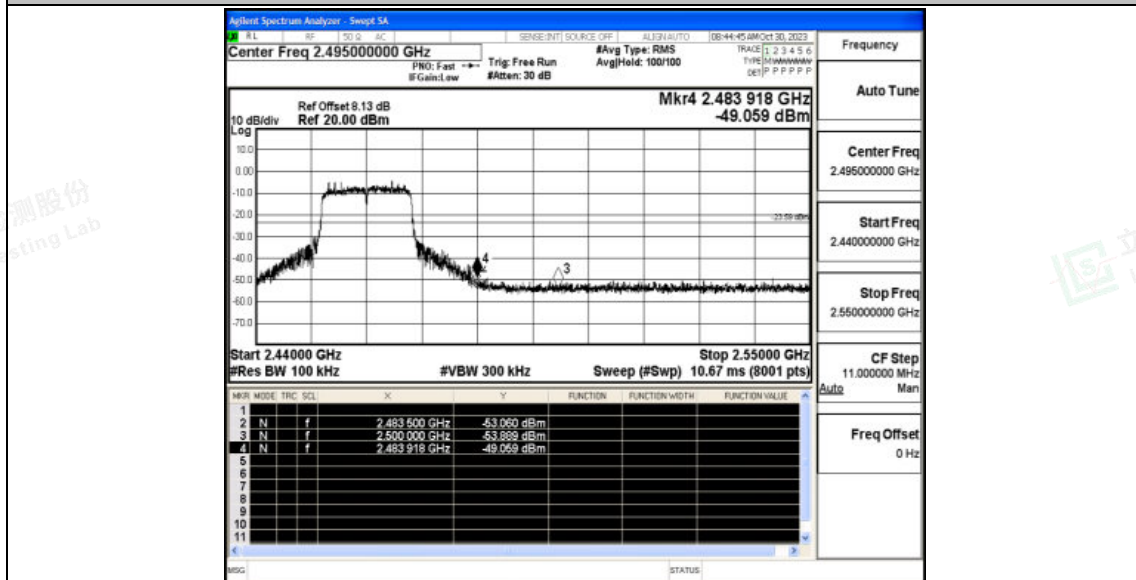
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

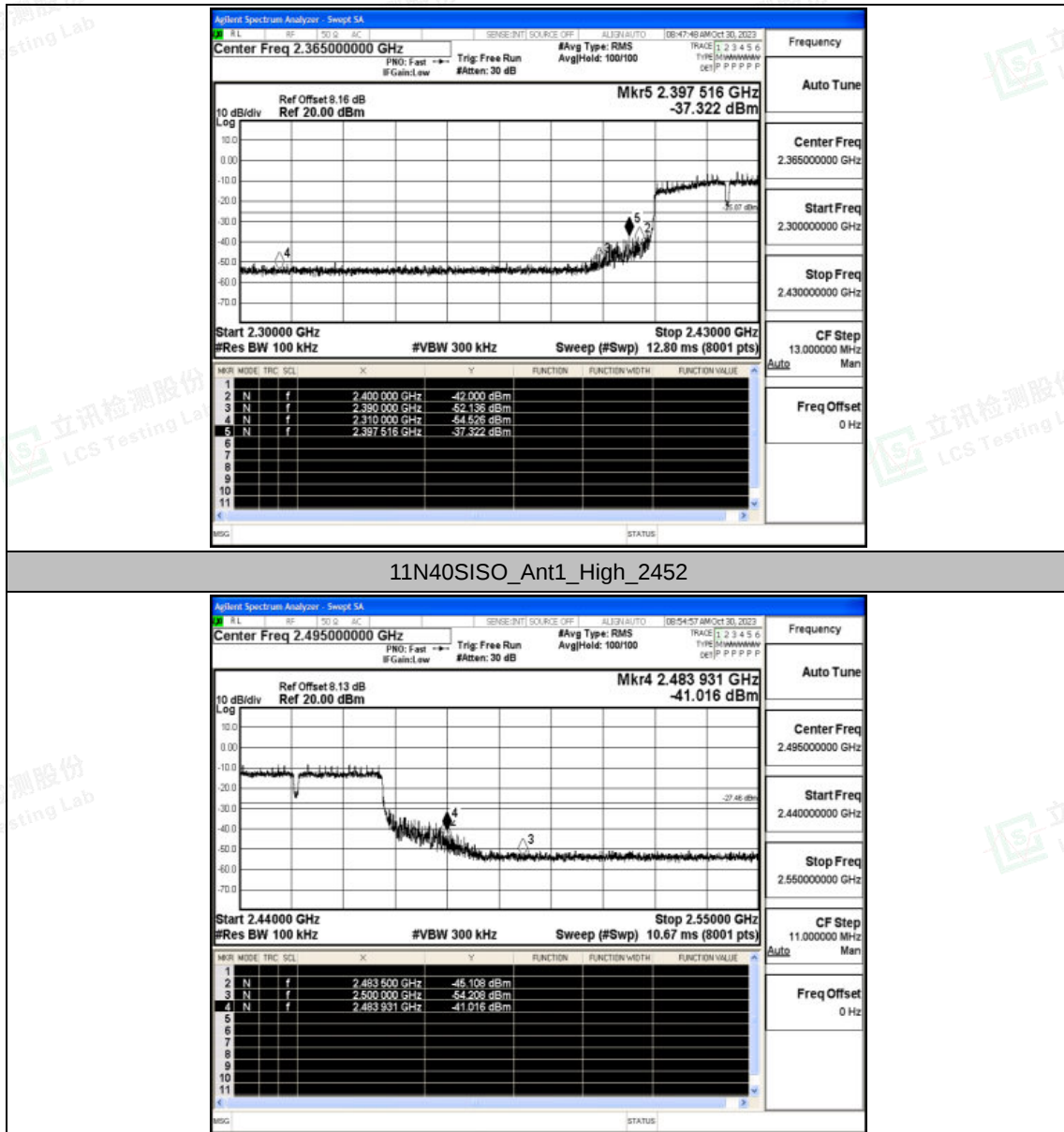


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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	1.37	-54.45	≤-18.63	PASS
			1000~26500	1.37	-45.85	≤-18.63	PASS
		2437	30~1000	2.60	-61.17	≤-17.4	PASS
			1000~26500	2.60	-47.11	≤-17.4	PASS
		2462	30~1000	2.64	-62.4	≤-17.36	PASS
			1000~26500	2.64	-47.3	≤-17.36	PASS
11G	Ant1	2412	30~1000	-2.89	-60.4	≤-22.89	PASS
			1000~26500	-2.89	-49.32	≤-22.89	PASS
		2437	30~1000	-1.64	-47.6	≤-21.64	PASS
			1000~26500	-1.64	-48.33	≤-21.64	PASS
		2462	30~1000	-2.59	-61.93	≤-22.59	PASS
			1000~26500	-2.59	-48.98	≤-22.59	PASS
11N20SISO	Ant1	2412	30~1000	-3.84	-60.74	≤-23.84	PASS
			1000~26500	-3.84	-48.14	≤-23.84	PASS
		2437	30~1000	-2.27	-61.41	≤-22.27	PASS
			1000~26500	-2.27	-48.92	≤-22.27	PASS
		2462	30~1000	-3.59	-61.67	≤-23.59	PASS
			1000~26500	-3.59	-49.18	≤-23.59	PASS
11N40SISO	Ant1	2422	30~1000	-5.87	-47.76	≤-25.87	PASS
			1000~26500	-5.87	-48.79	≤-25.87	PASS
		2437	30~1000	-4.91	-51.91	≤-24.91	PASS
			1000~26500	-4.91	-49.51	≤-24.91	PASS
		2452	30~1000	-7.46	-60.59	≤-27.46	PASS
			1000~26500	-7.46	-49.29	≤-27.46	PASS

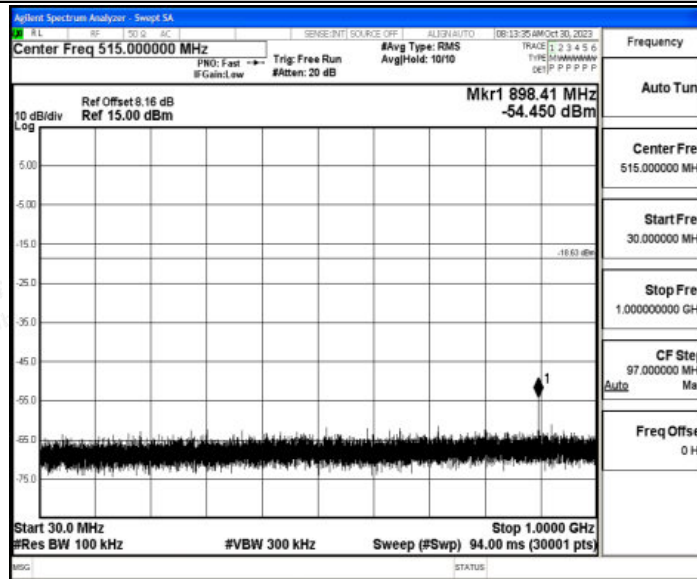


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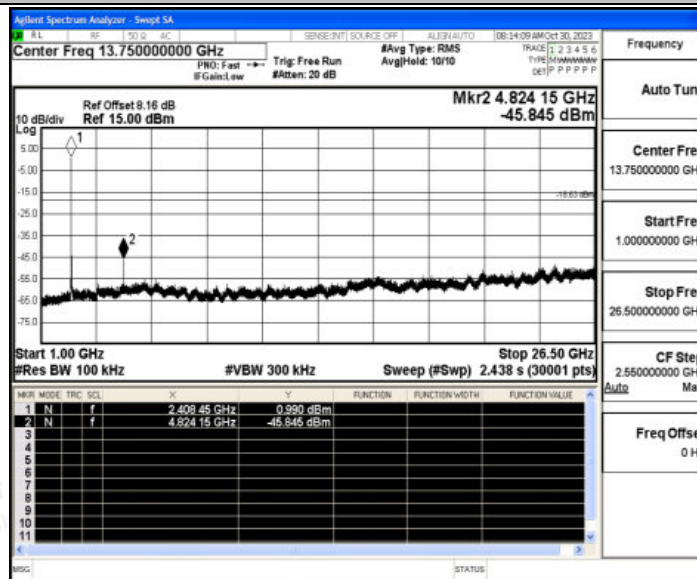


Test Graphs

11B_Ant1_2412_30~1000



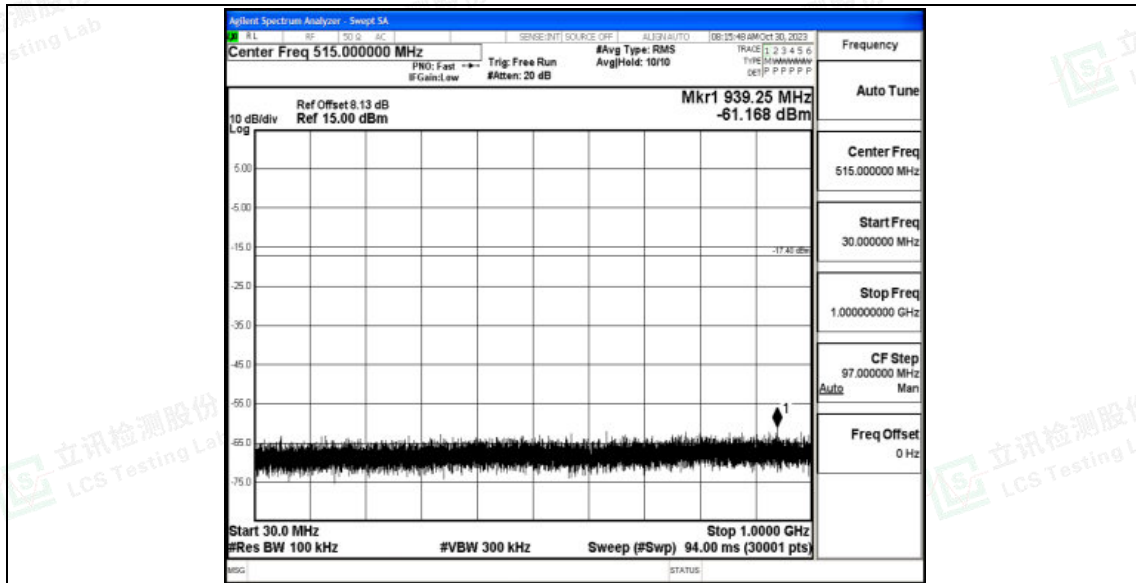
11B_Ant1_2412_1000~26500



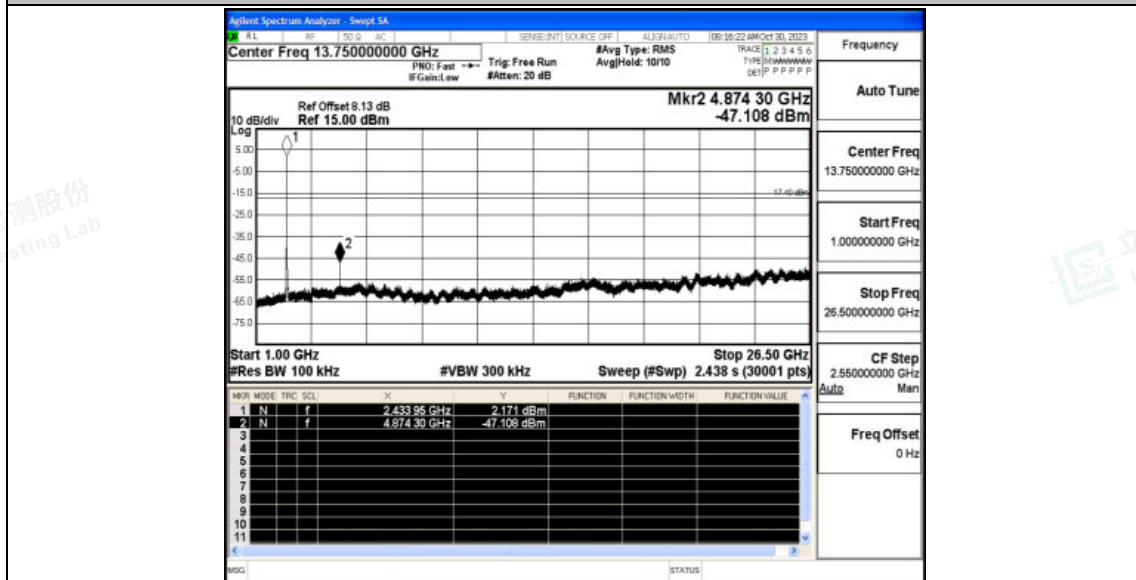
11B_Ant1_2437_30~1000



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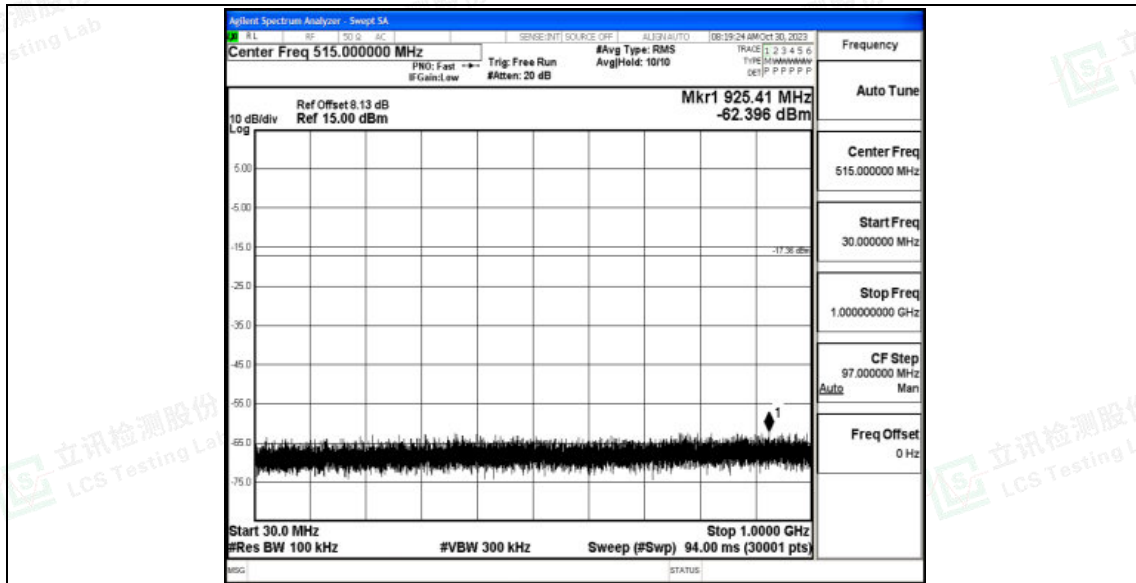
11B_Ant1_2437_1000~26500



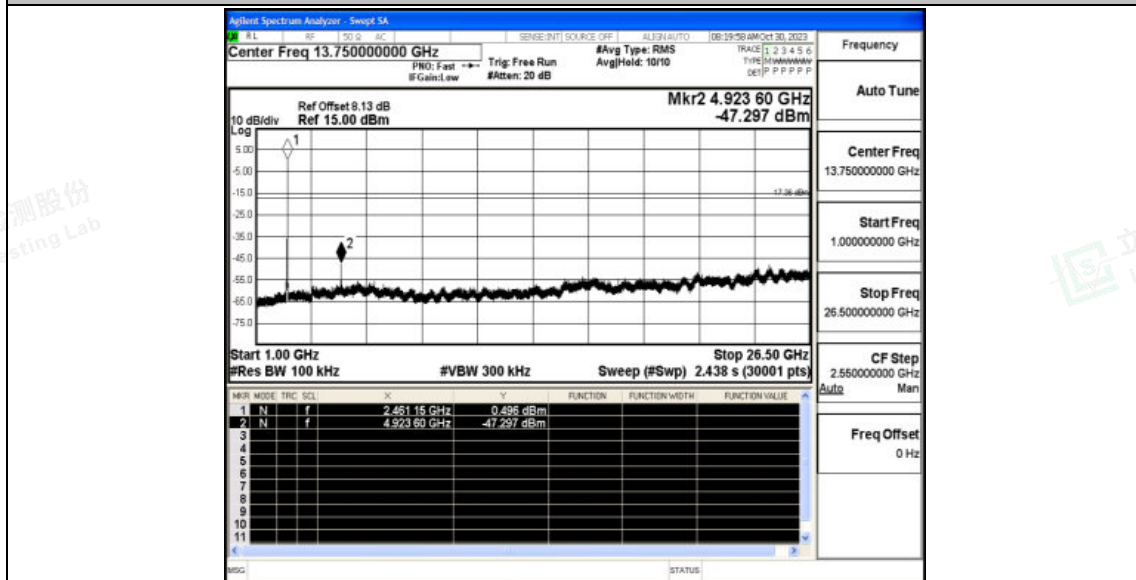
11B_Ant1_2462_30~1000



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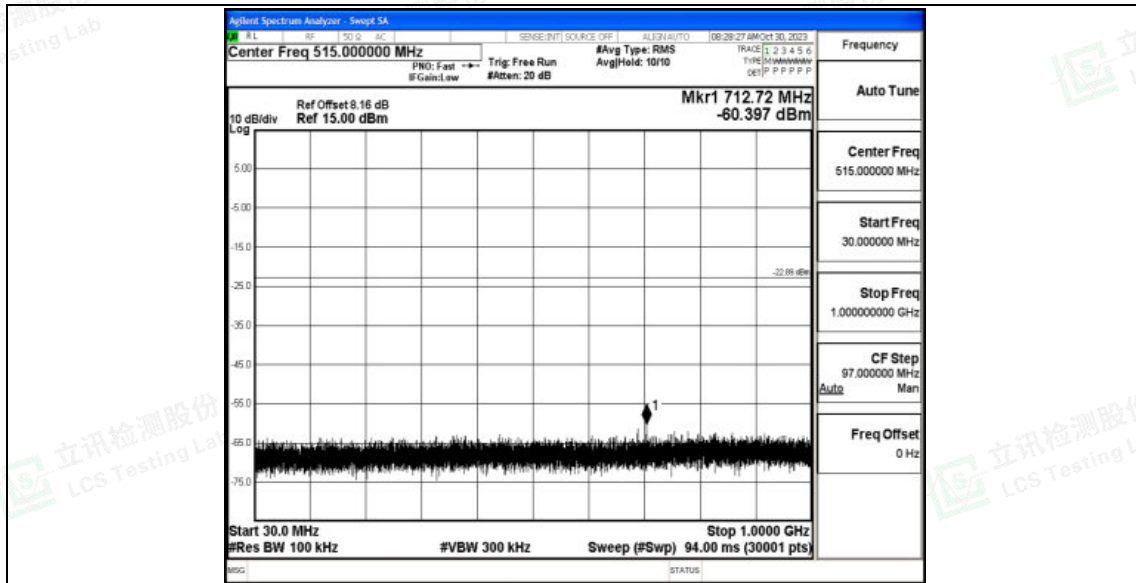
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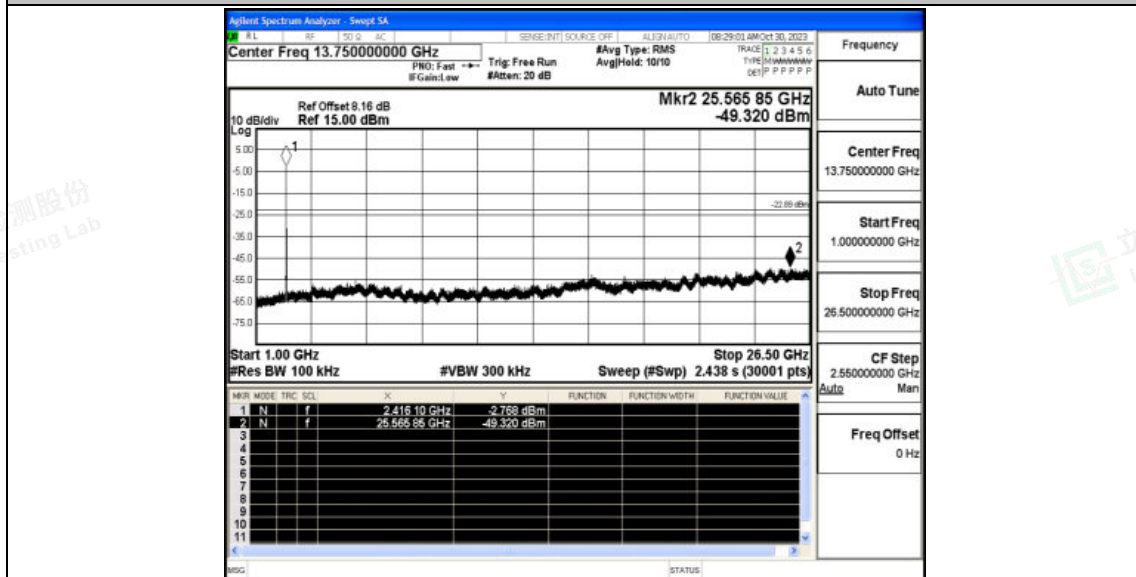
11G_Ant1_2412_30~1000



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11G_Ant1_2412_1000~26500



11G_Ant1_2437_30~1000

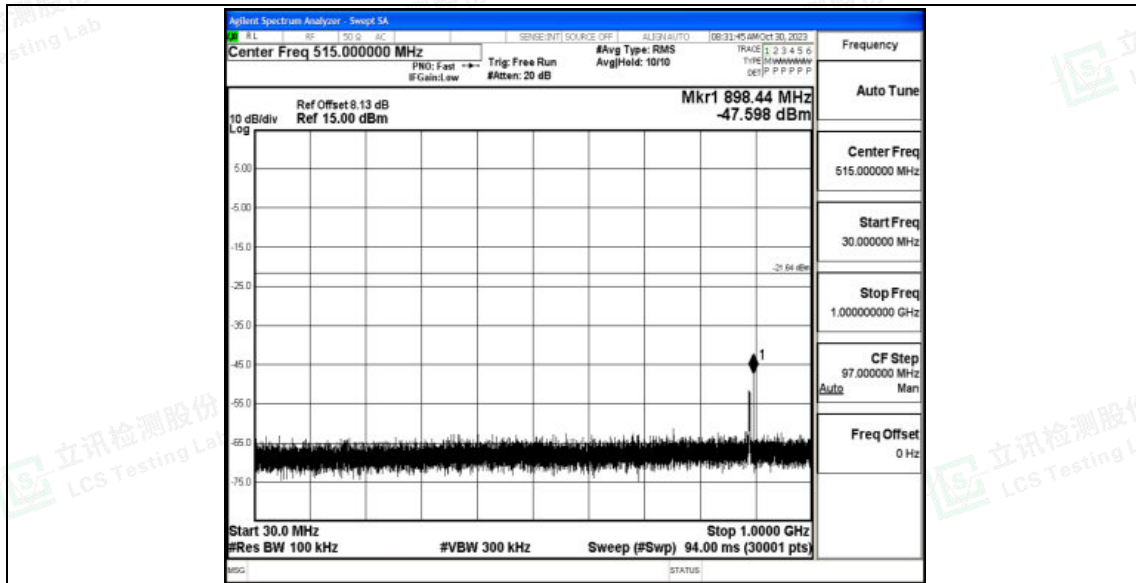


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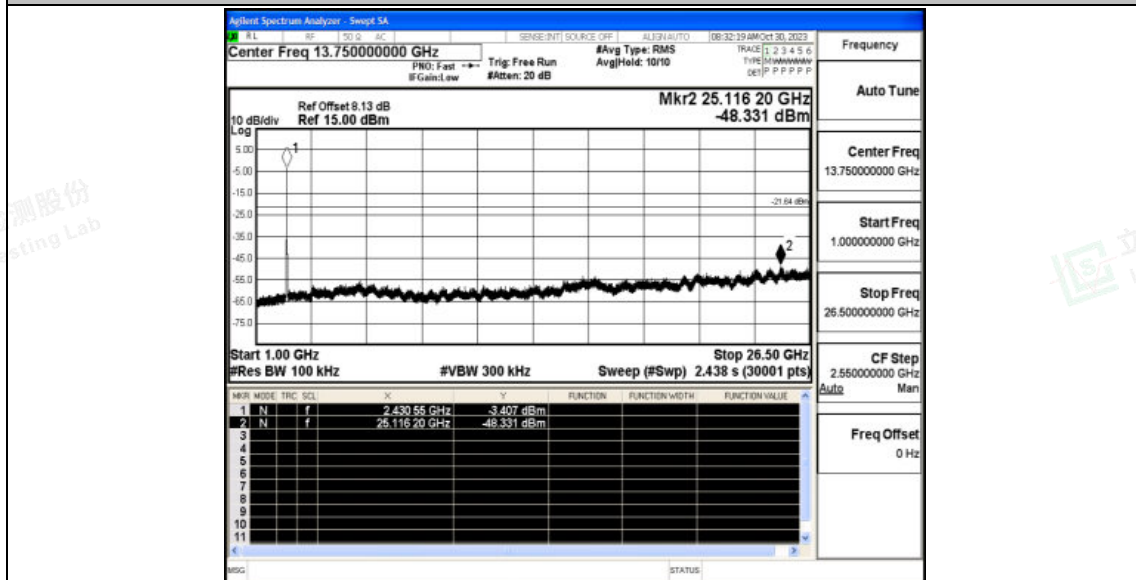
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11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

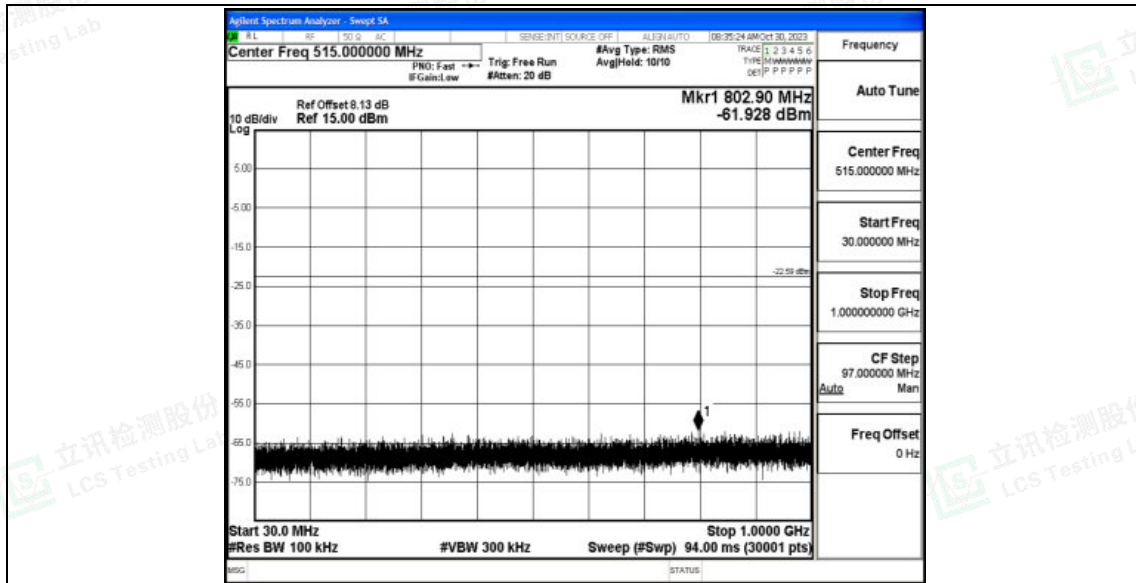


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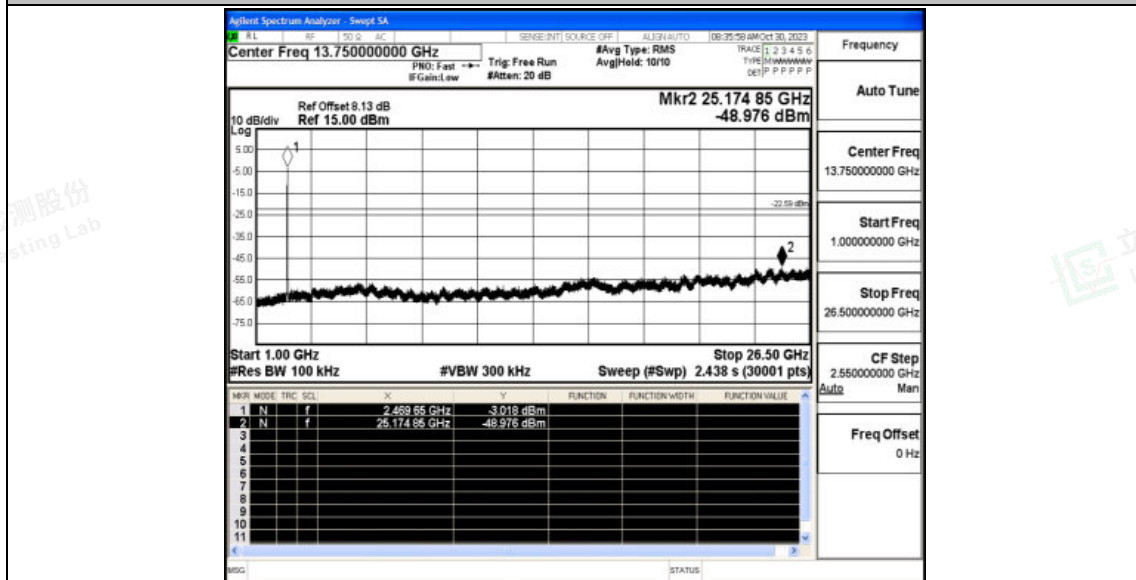
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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

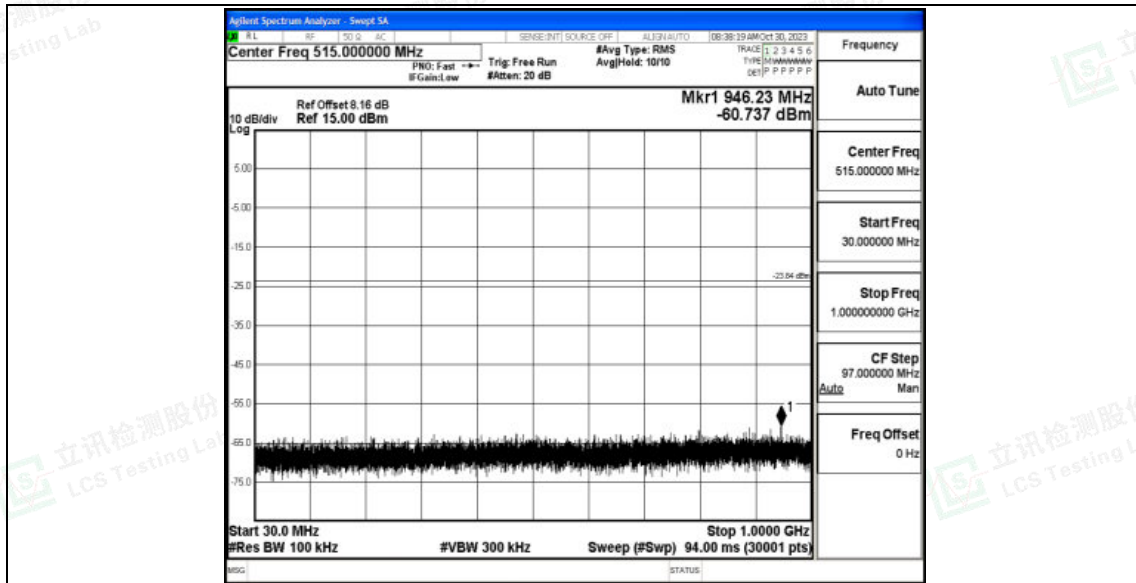


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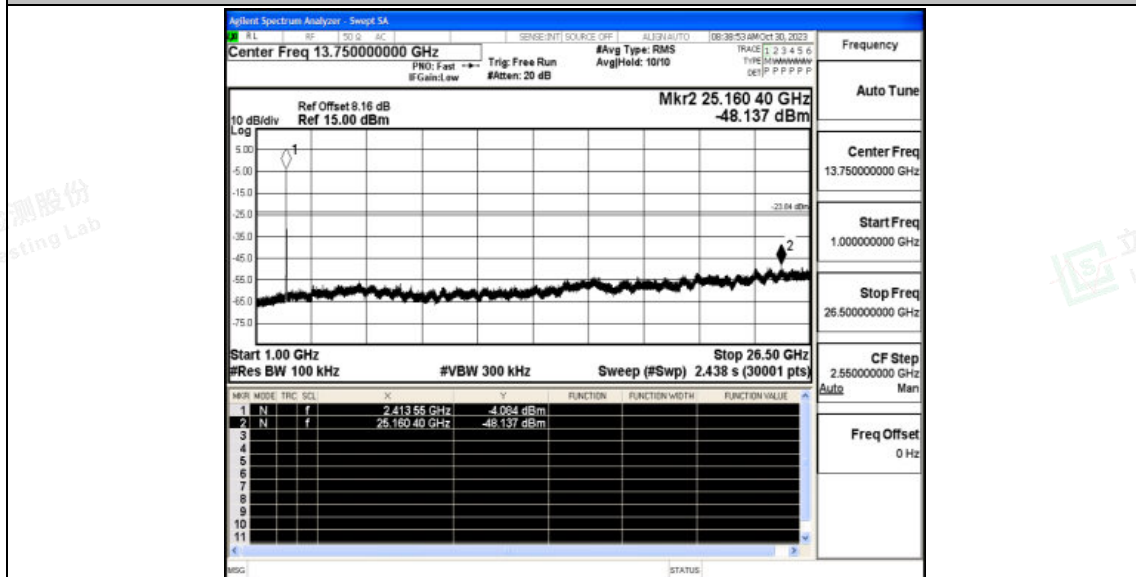
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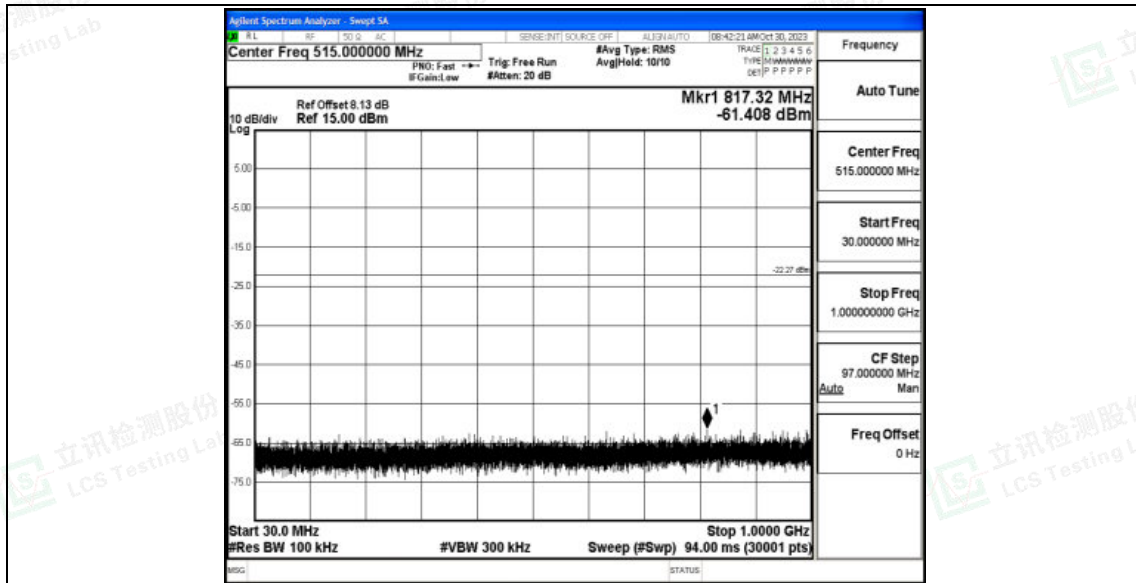
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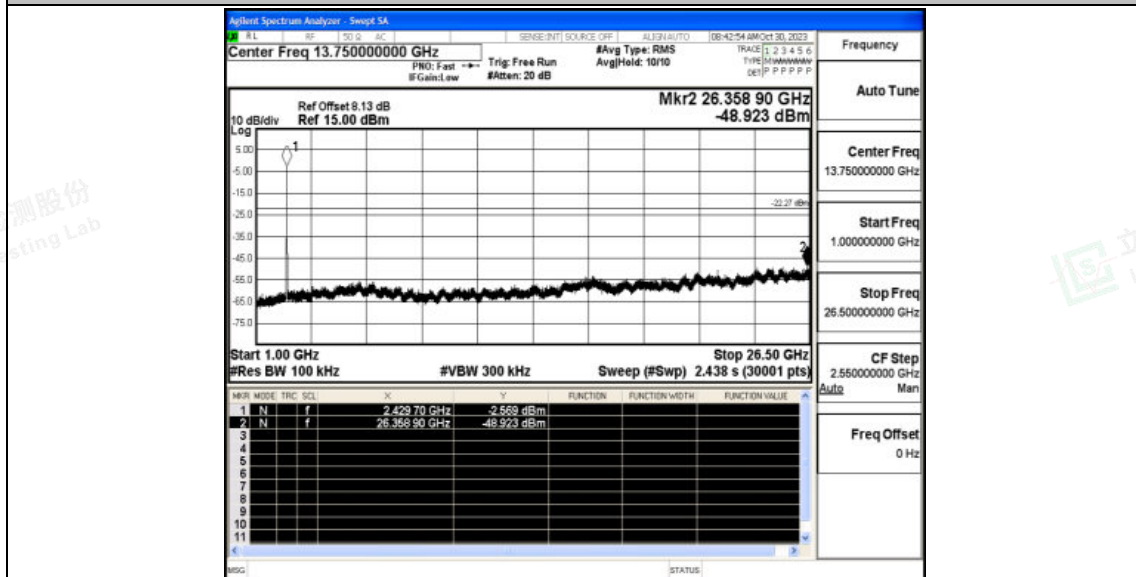
11N20SISO_Ant1_2437_30~1000



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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

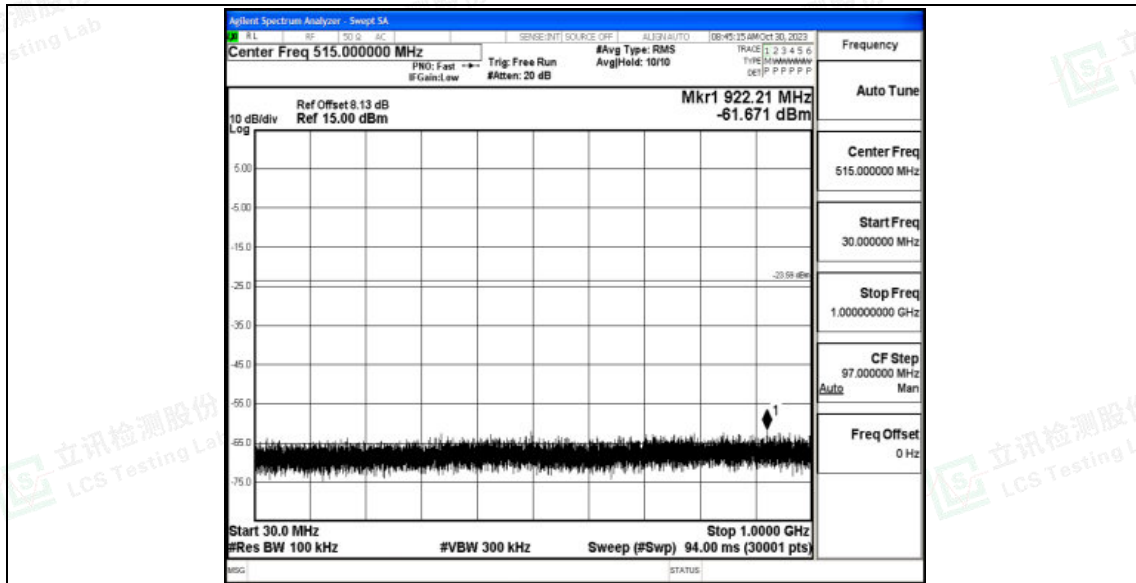


Shenzhen LCS Compliance Testing Laboratory Ltd.

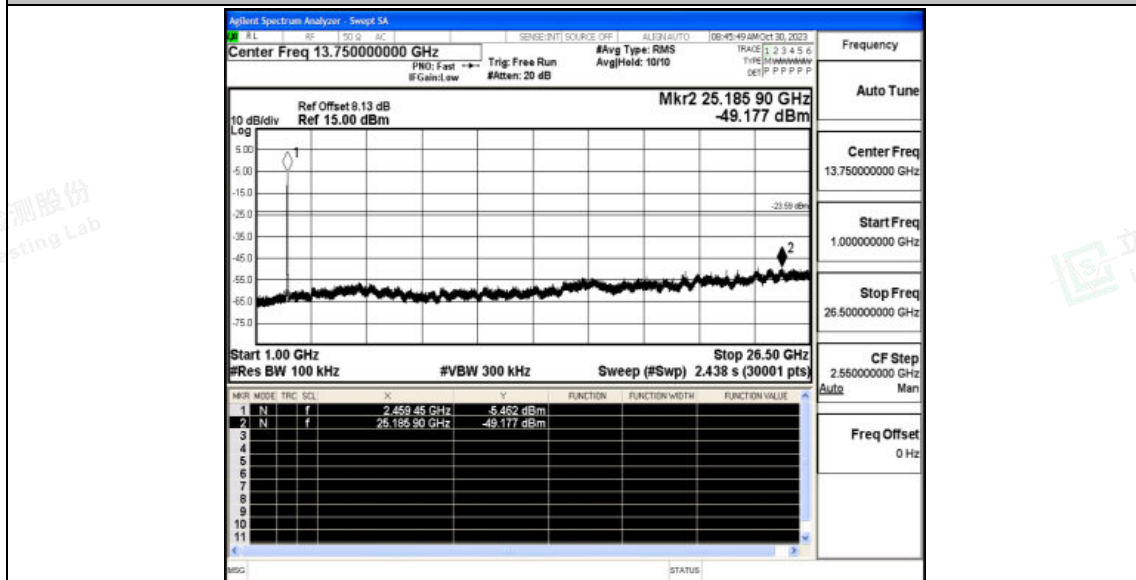
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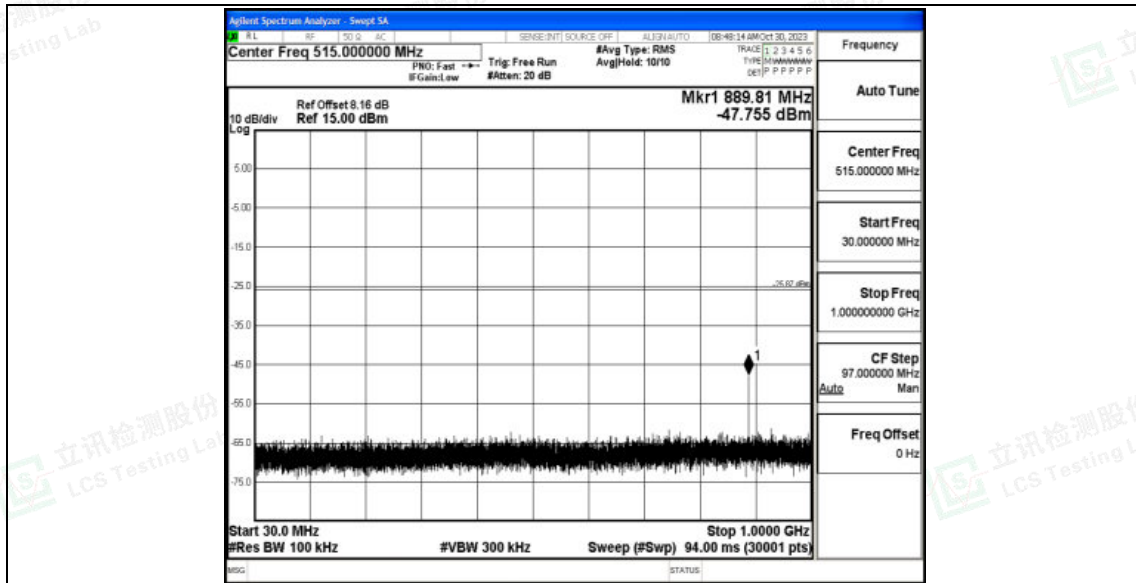
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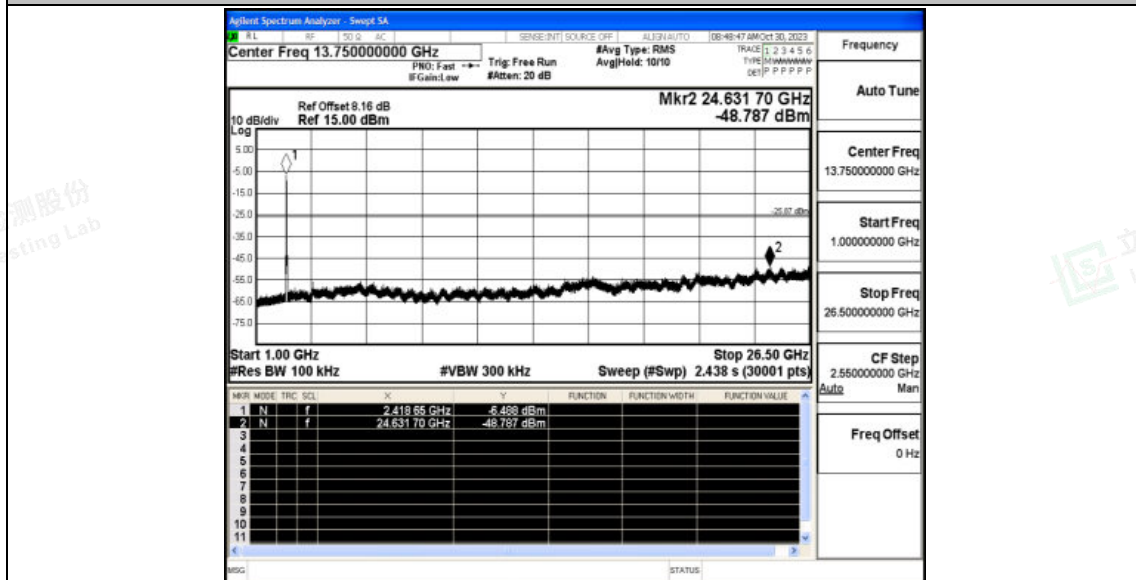
11N40SISO_Ant1_2422_30~1000



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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000

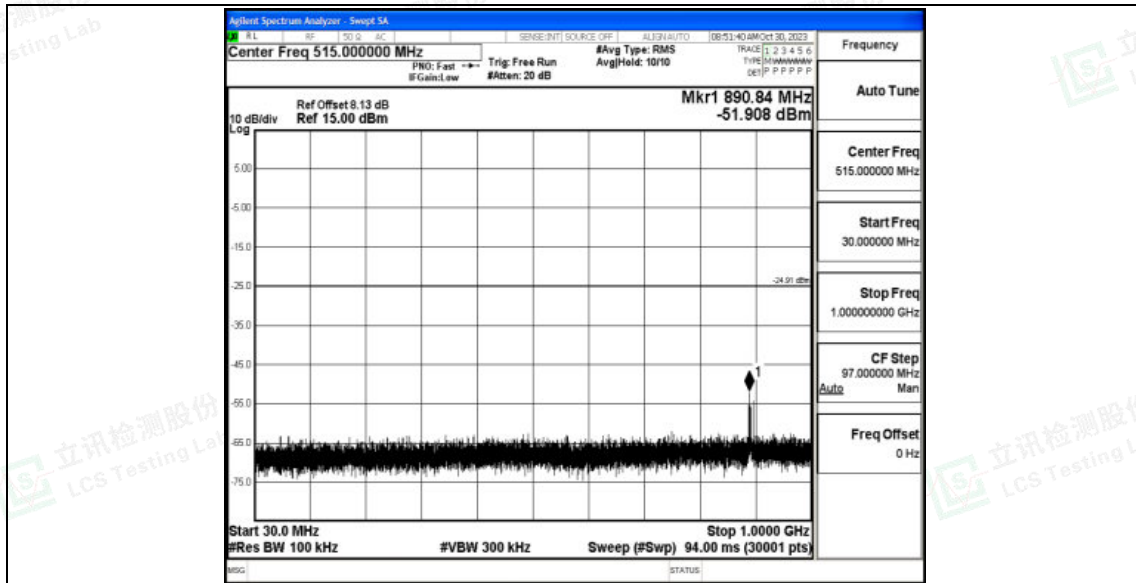


Shenzhen LCS Compliance Testing Laboratory Ltd.

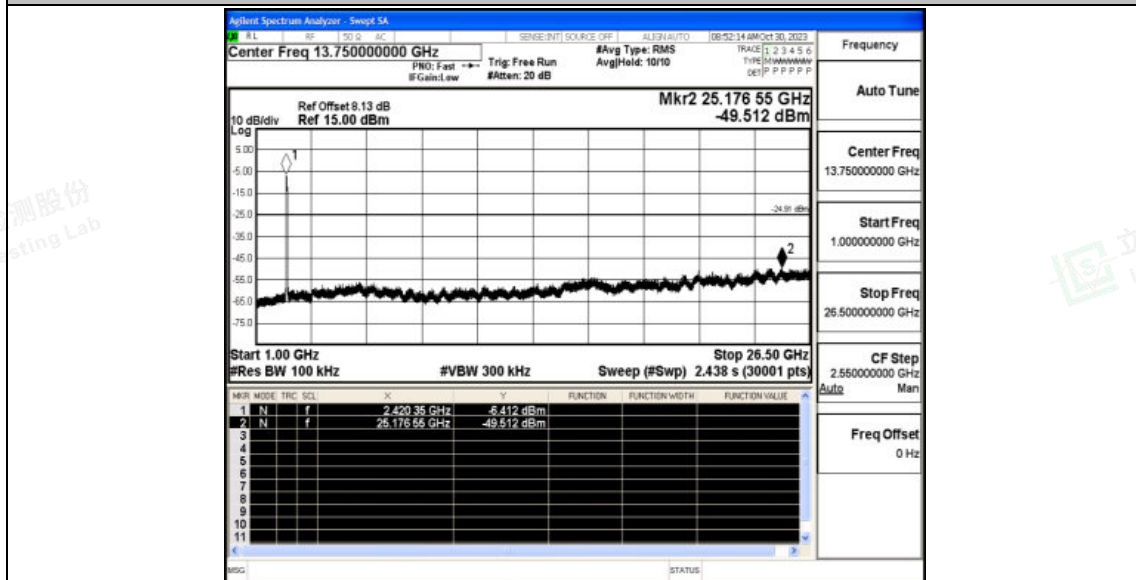
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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

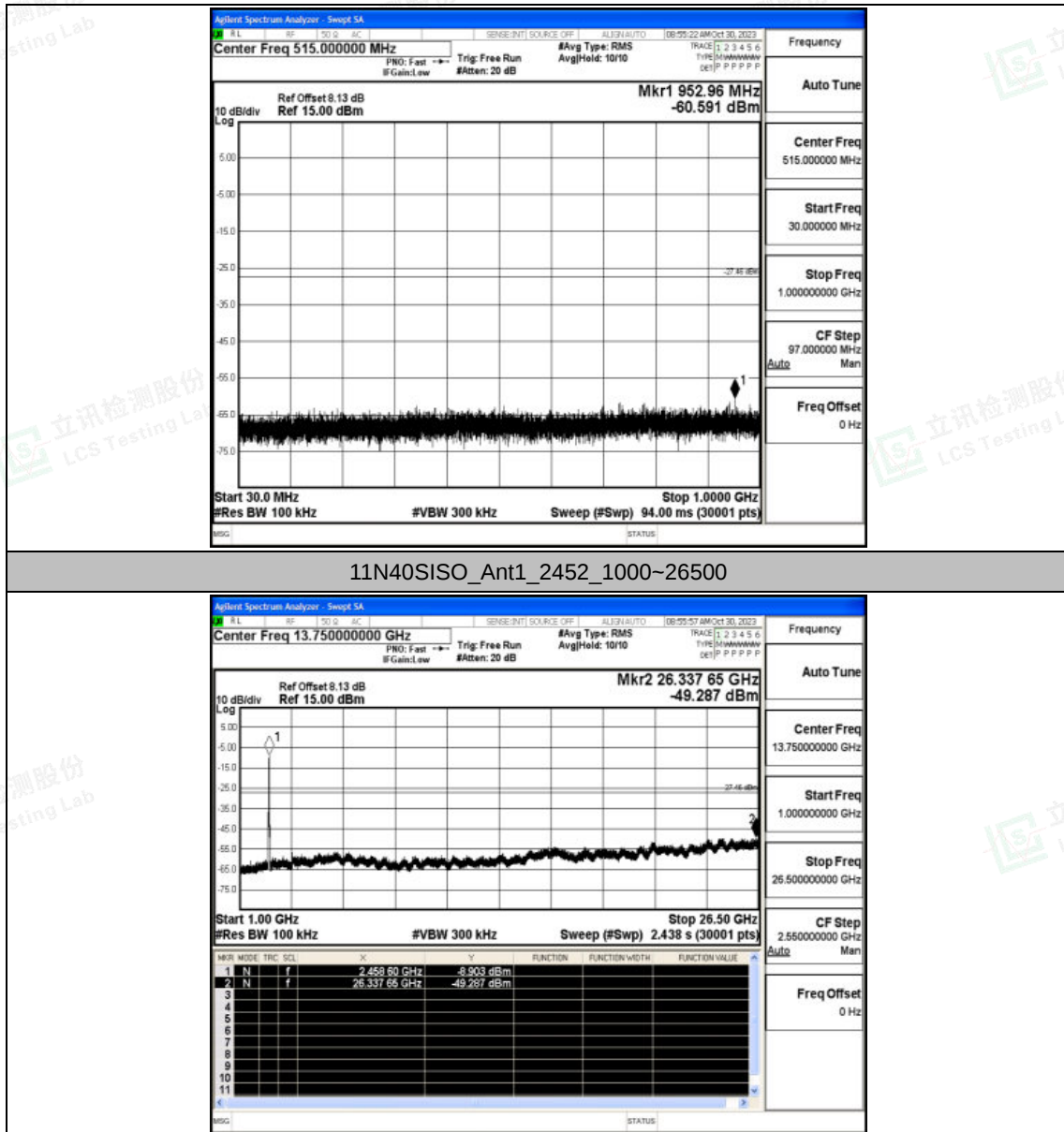


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A.6 Duty Cycle

Test Result

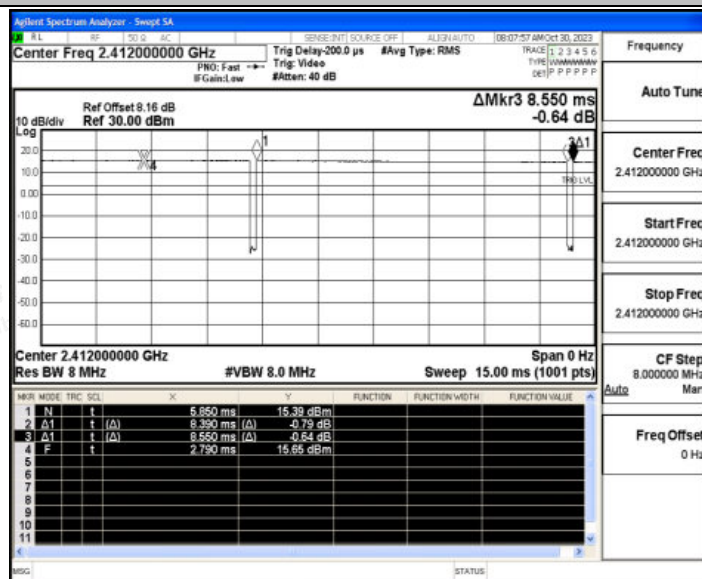
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant1	2412	8.39	8.55	98.13	0.08	PASS
		2437	8.38	8.56	97.90	0.09	PASS
		2462	8.39	8.58	97.79	0.10	PASS
11G	Ant1	2412	1.39	1.56	89.10	0.50	PASS
		2437	1.40	1.58	88.61	0.53	PASS
		2462	1.39	1.64	84.76	0.72	PASS
11N20SISO	Ant1	2412	1.18	1.43	82.52	0.83	PASS
		2437	1.17	1.42	82.39	0.84	PASS
		2462	1.18	1.41	83.69	0.77	PASS
11N40SISO	Ant1	2422	0.59	0.79	74.68	1.27	PASS
		2437	0.58	0.84	69.05	1.61	PASS
		2452	0.58	0.84	69.05	1.61	PASS



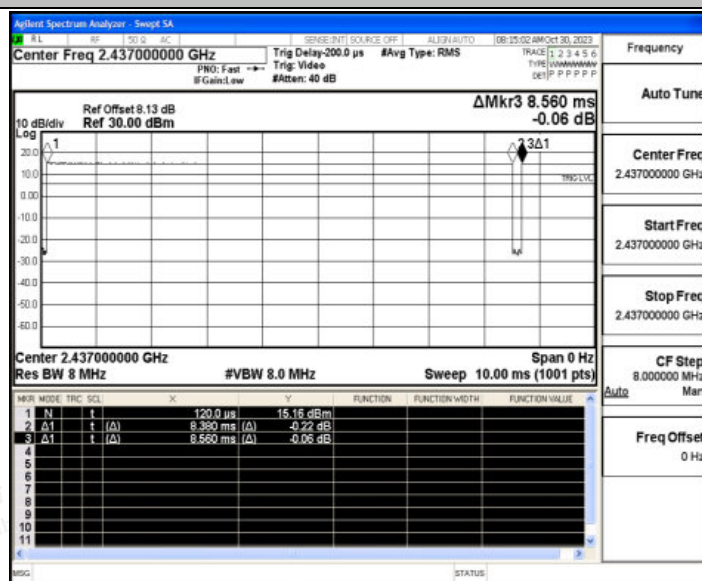
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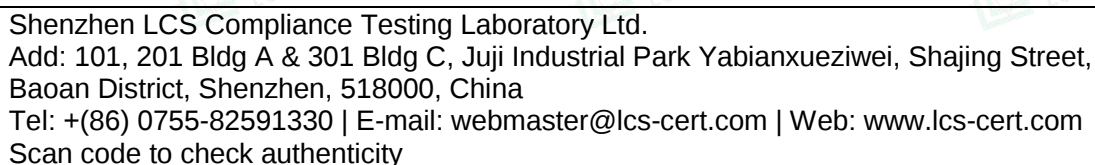
11B Ant1 2412

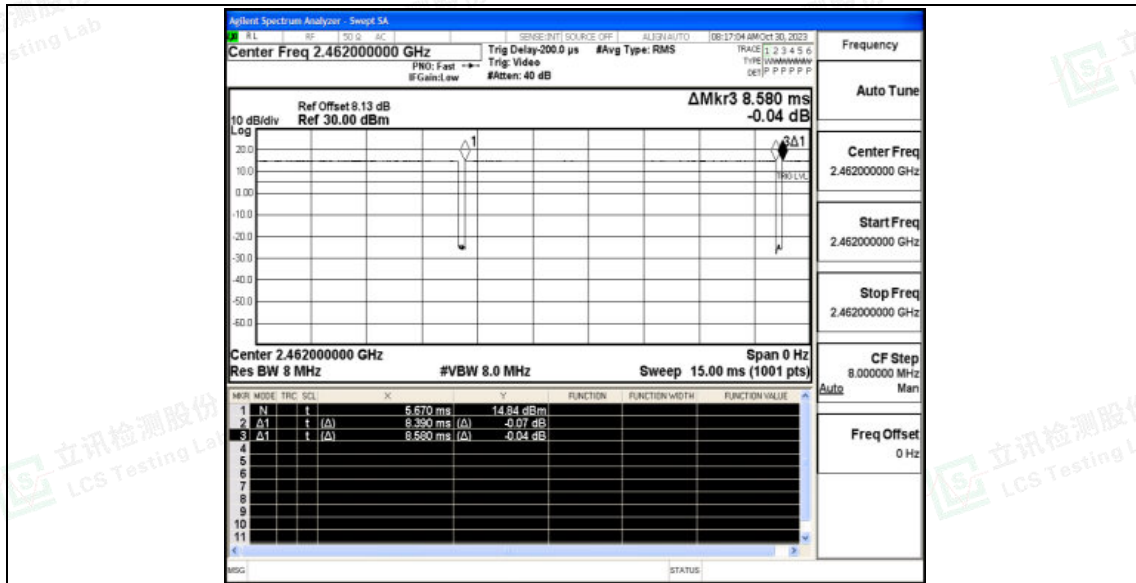


11B Ant1 2437

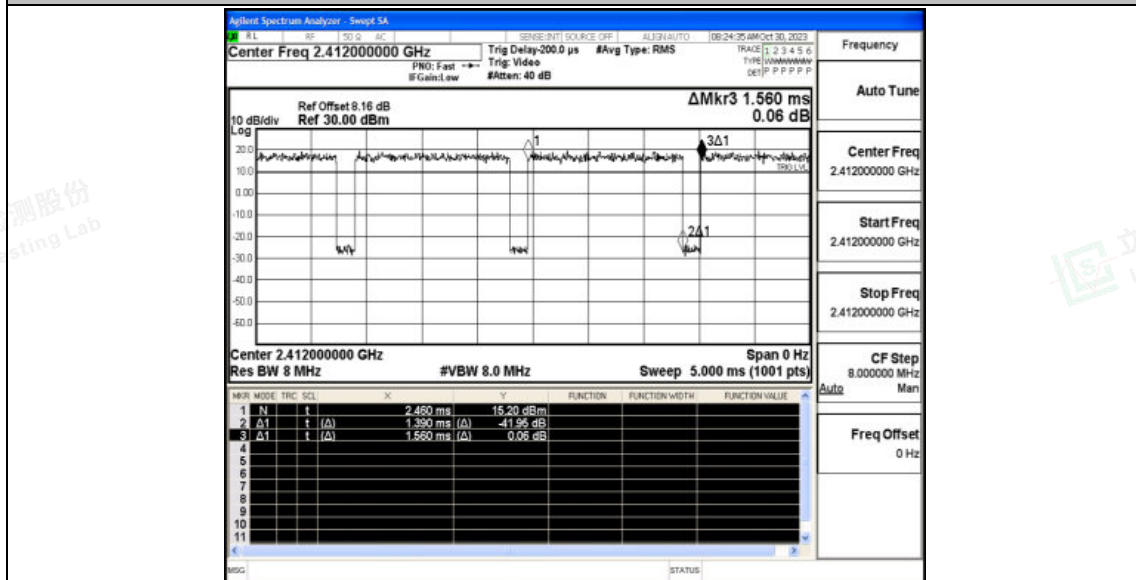


11B Ant1 2462





11G_Ant1_2412



11G_Ant1_2437

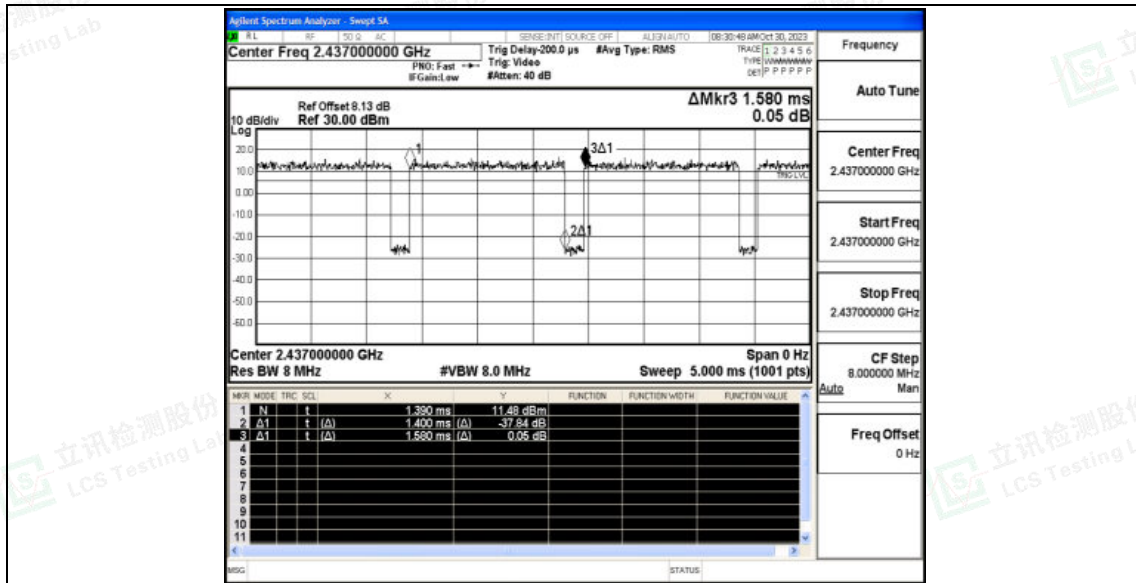


Shenzhen LCS Compliance Testing Laboratory Ltd.

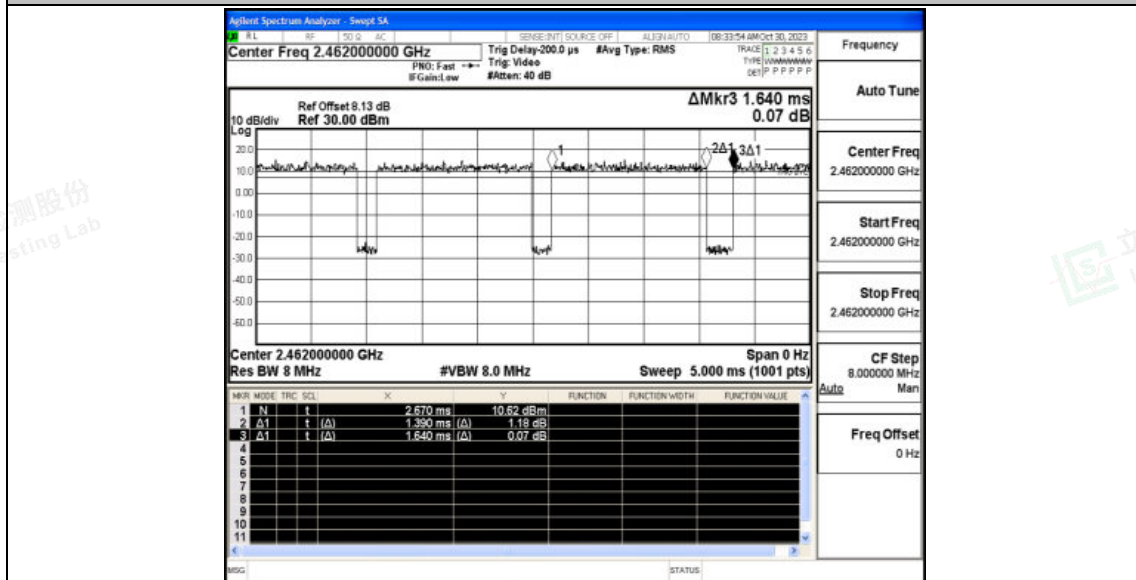
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11G_Ant1_2462



11N20SISO_Ant1_2412

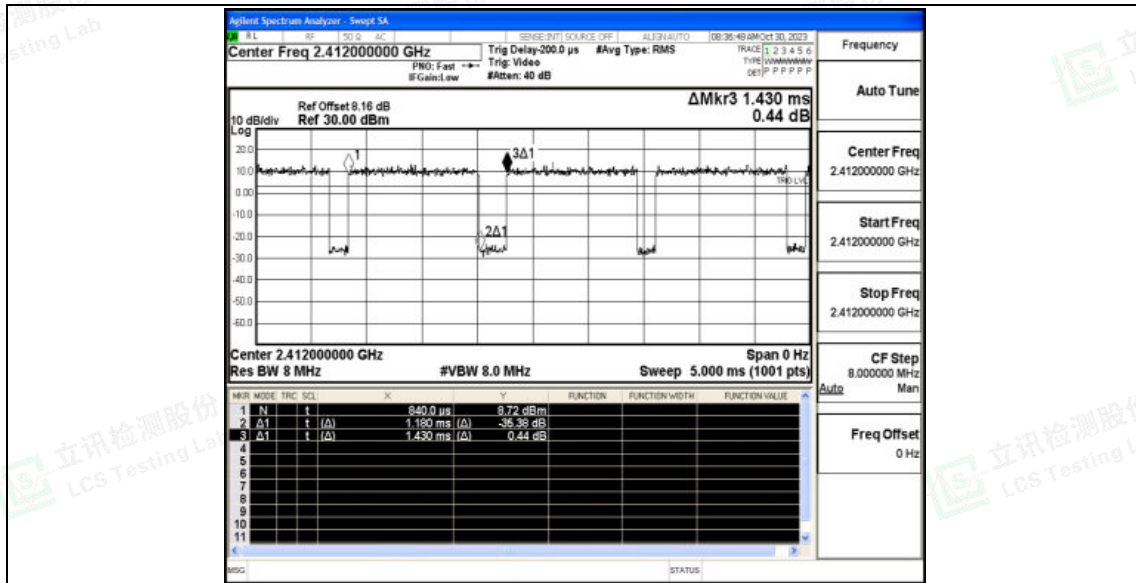


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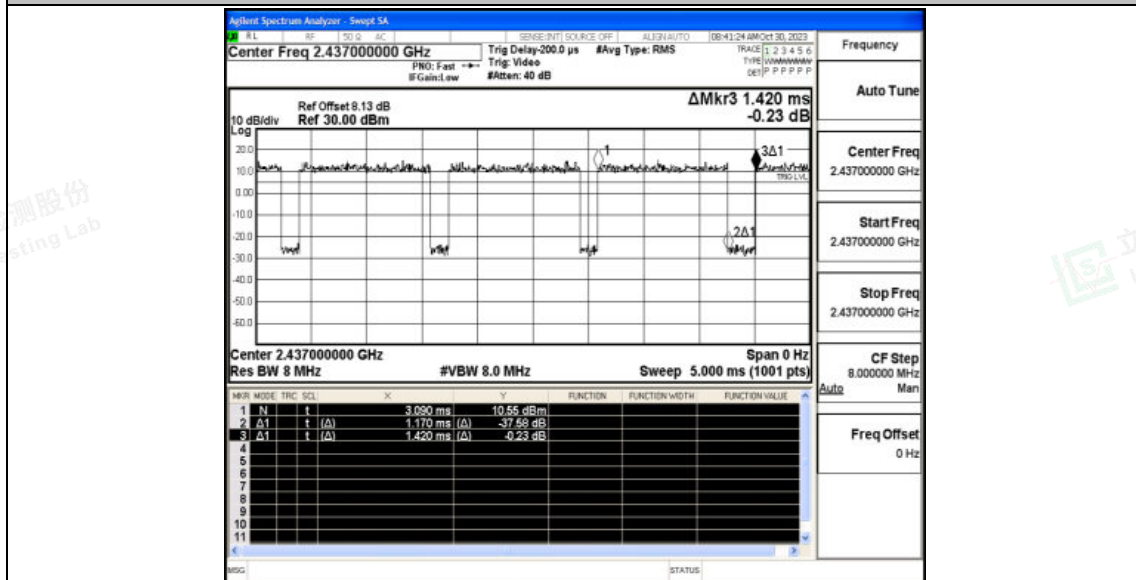
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

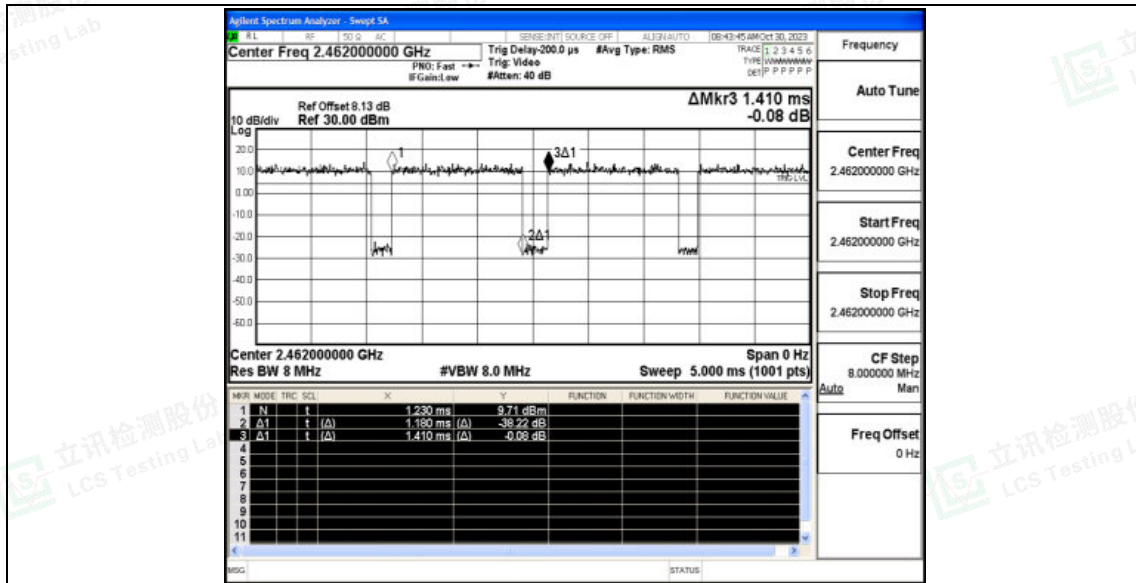


Shenzhen LCS Compliance Testing Laboratory Ltd.

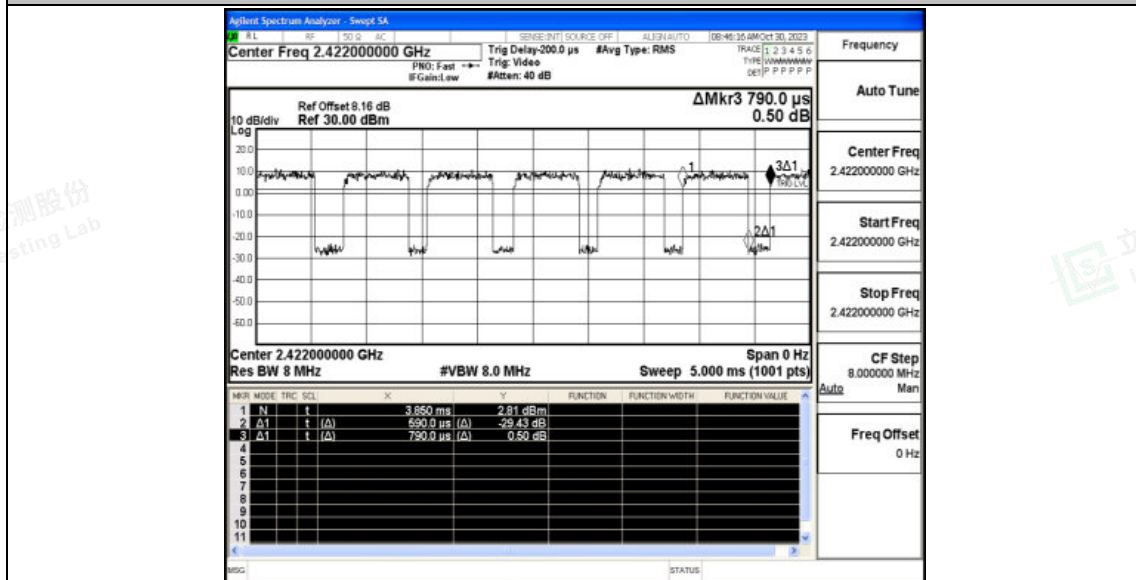
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

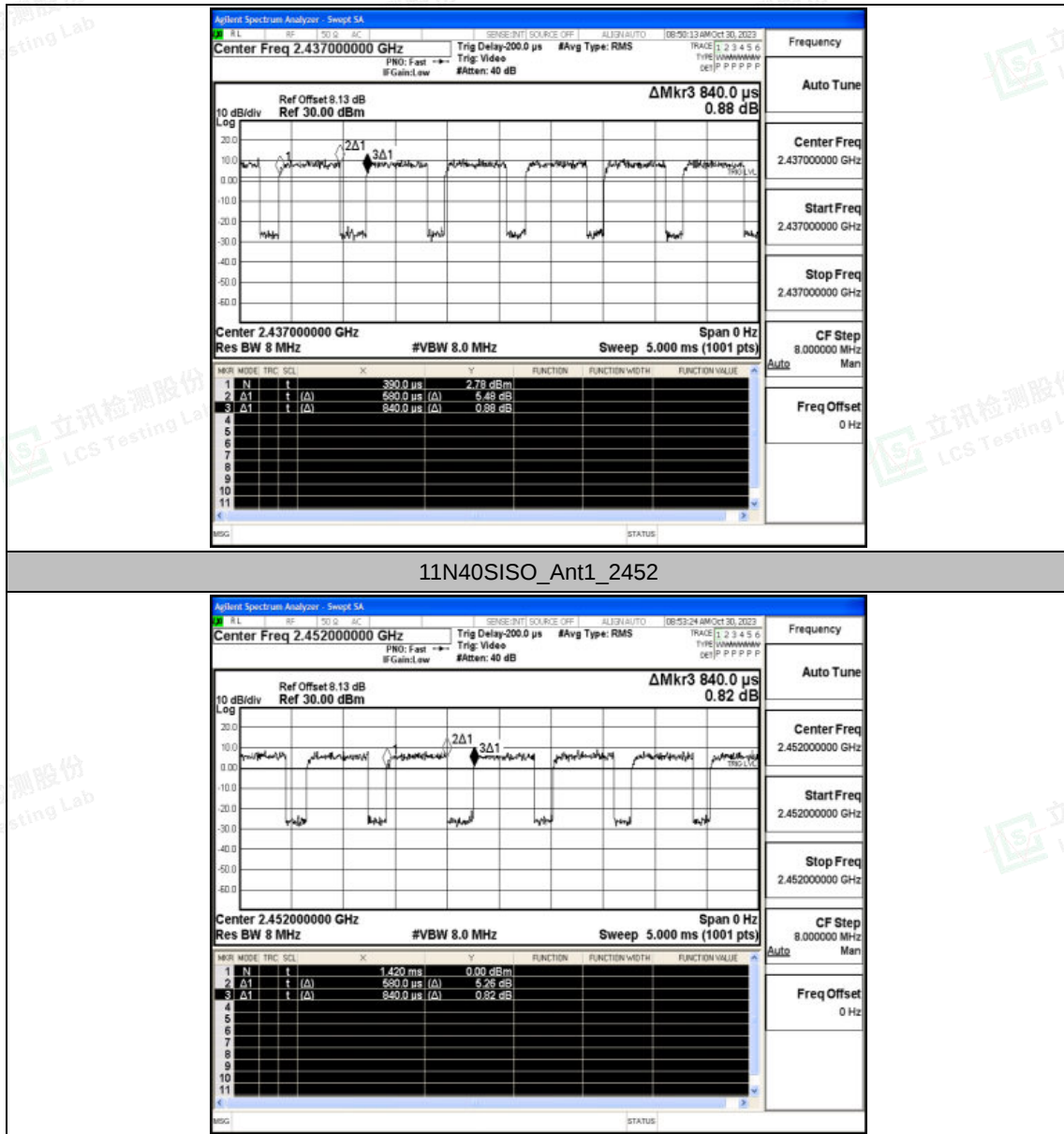


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A.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.51	≤-41.20	45.69	≤54	PASS
				AV	2389.960	-47.7	≤-41.20	47.50	≤54	PASS
				AV	2390.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2310.000	-42.11	≤-21.20	53.09	≤74	PASS
				Peak	2333.540	-39.69	≤-21.20	55.51	≤74	PASS
				Peak	2390.000	-40.83	≤-21.20	54.37	≤74	PASS
		High	2462	AV	2483.500	-47.56	≤-41.20	47.64	≤54	PASS
				AV	2483.560	-47.55	≤-41.20	47.65	≤54	PASS
				AV	2500.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2483.500	-42	≤-21.20	53.20	≤74	PASS
				Peak	2485.540	-37.65	≤-21.20	57.55	≤74	PASS
				Peak	2500.000	-43.64	≤-21.20	51.56	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2389.830	-47.61	≤-41.20	47.59	≤54	PASS
				AV	2390.000	-47.69	≤-41.20	47.51	≤54	PASS
				Peak	2310.000	-41.89	≤-21.20	53.31	≤74	PASS
				Peak	2367.860	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2390.000	-39.4	≤-21.20	55.80	≤74	PASS
		High	2462	AV	2483.500	-45.55	≤-41.20	49.65	≤54	PASS
				AV	2483.560	-45.74	≤-41.20	49.46	≤54	PASS
				AV	2500.000	-48.44	≤-41.20	46.76	≤54	PASS
				Peak	2483.500	-38.2	≤-21.20	57.00	≤74	PASS
				Peak	2483.890	-34.5	≤-21.20	60.70	≤74	PASS
				Peak	2500.000	-43.63	≤-21.20	51.57	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2389.700	-47.72	≤-41.20	47.48	≤54	PASS
				AV	2390.000	-47.82	≤-41.20	47.38	≤54	PASS
				Peak	2310.000	-43.57	≤-21.20	51.63	≤74	PASS
				Peak	2378.390	-39.51	≤-21.20	55.69	≤74	PASS
				Peak	2390.000	-41.17	≤-21.20	54.03	≤74	PASS
		High	2462	AV	2483.500	-45.68	≤-41.20	49.52	≤54	PASS
				AV	2483.890	-45.13	≤-41.20	50.07	≤54	PASS
				AV	2500.000	-48.47	≤-41.20	46.73	≤54	PASS
				Peak	2483.500	-35.01	≤-21.20	60.19	≤74	PASS



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11N40SIS O	Ant1	Low	2422	Peak	2484.000	-34.39	≤-21.20	60.81	≤74	PASS
				Peak	2500.000	-43.2	≤-21.20	52.00	≤74	PASS
				AV	2310.000	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2389.570	-44.75	≤-41.20	50.45	≤54	PASS
				AV	2390.000	-44.82	≤-41.20	50.38	≤54	PASS
				Peak	2310.000	-41.77	≤-21.20	53.43	≤74	PASS
		High	2452	Peak	2389.960	-36.34	≤-21.20	58.86	≤74	PASS
				Peak	2390.000	-36.34	≤-21.20	58.86	≤74	PASS
				AV	2483.500	-41.81	≤-41.20	53.39	≤54	PASS
				AV	2484.550	-41.66	≤-41.20	53.54	≤54	PASS
				AV	2500.000	-48.07	≤-41.20	47.13	≤54	PASS
				Peak	2483.500	-34.3	≤-21.20	60.90	≤74	PASS
				Peak	2486.640	-27.31	≤-21.20	67.89	≤74	PASS
				Peak	2500.000	-44.47	≤-21.20	50.73	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. 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.

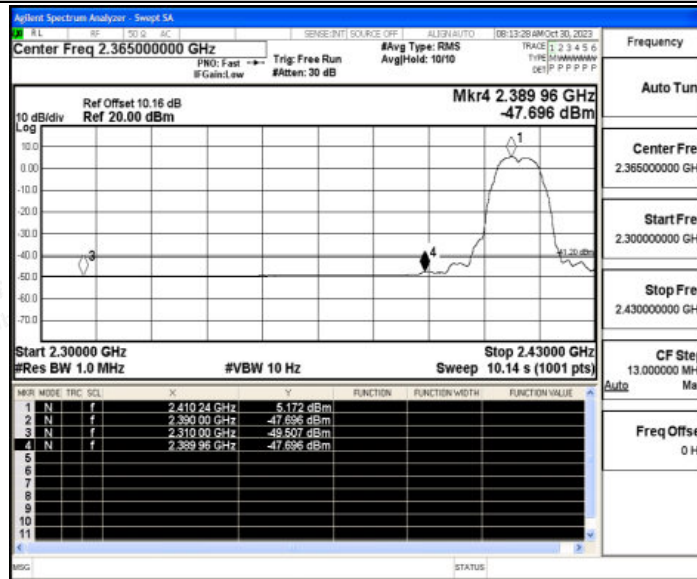


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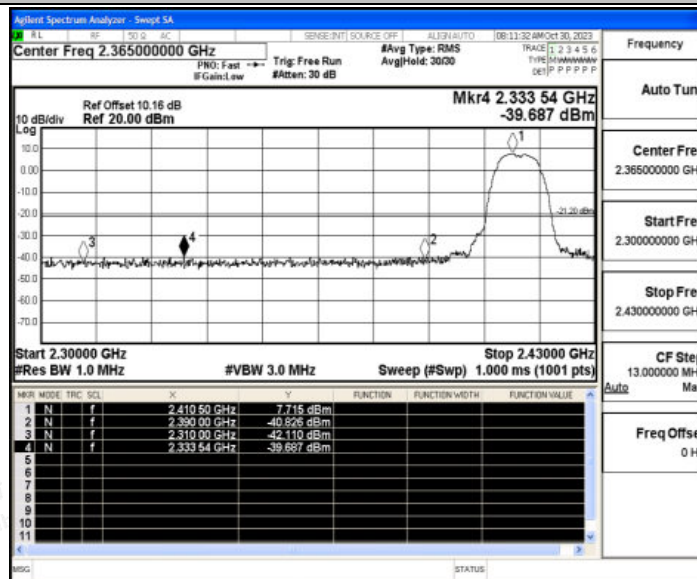


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

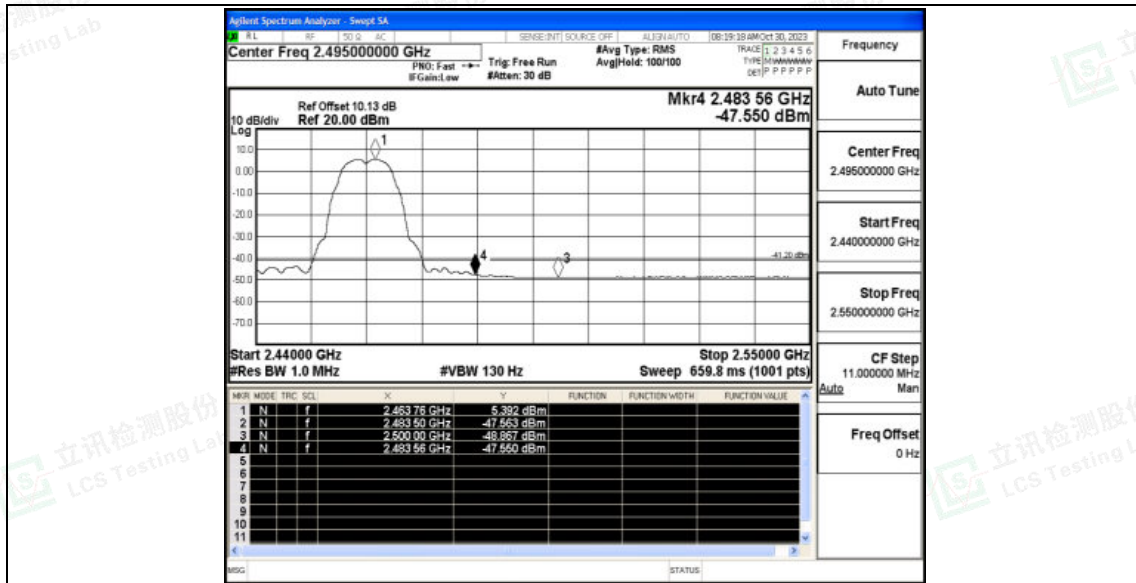


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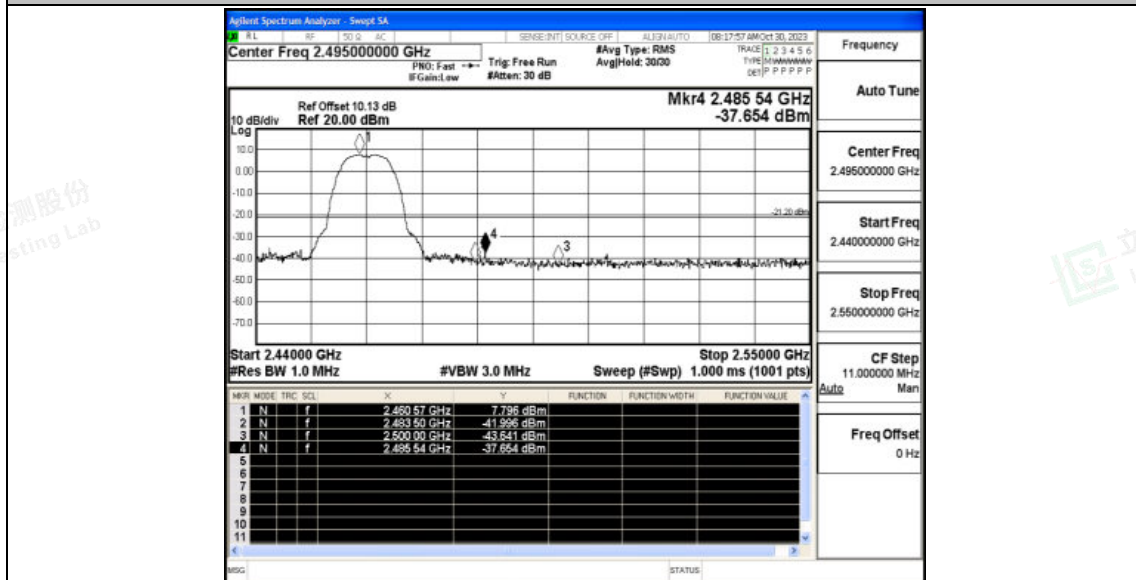
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

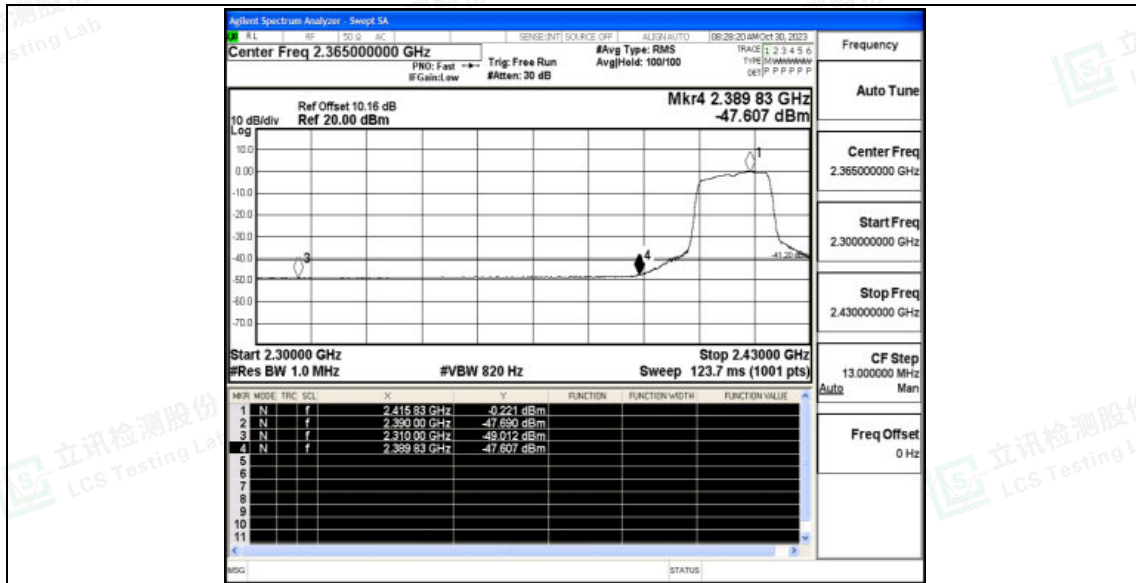


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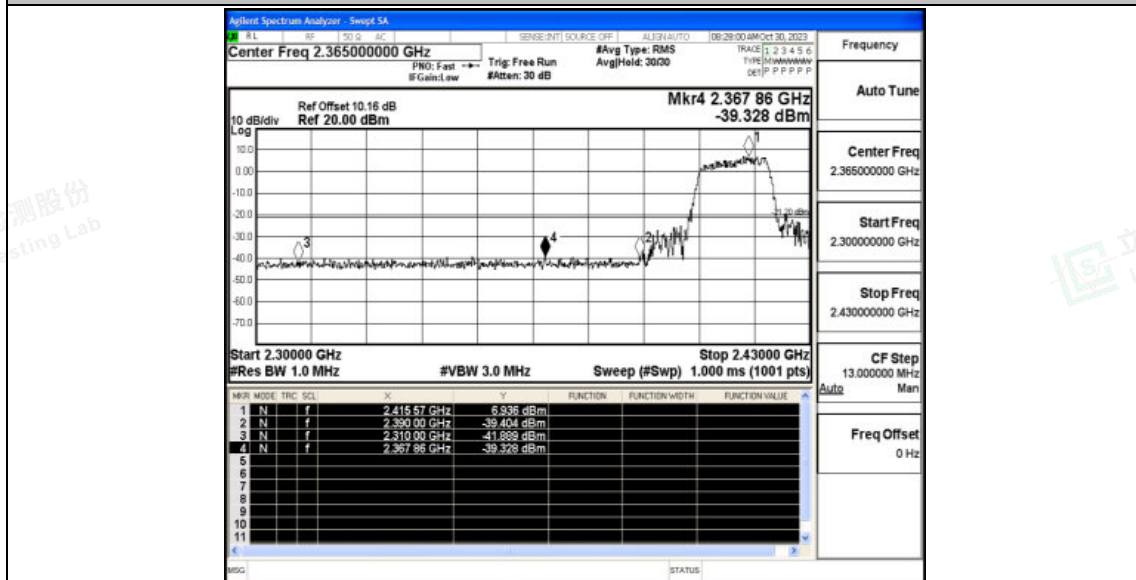
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

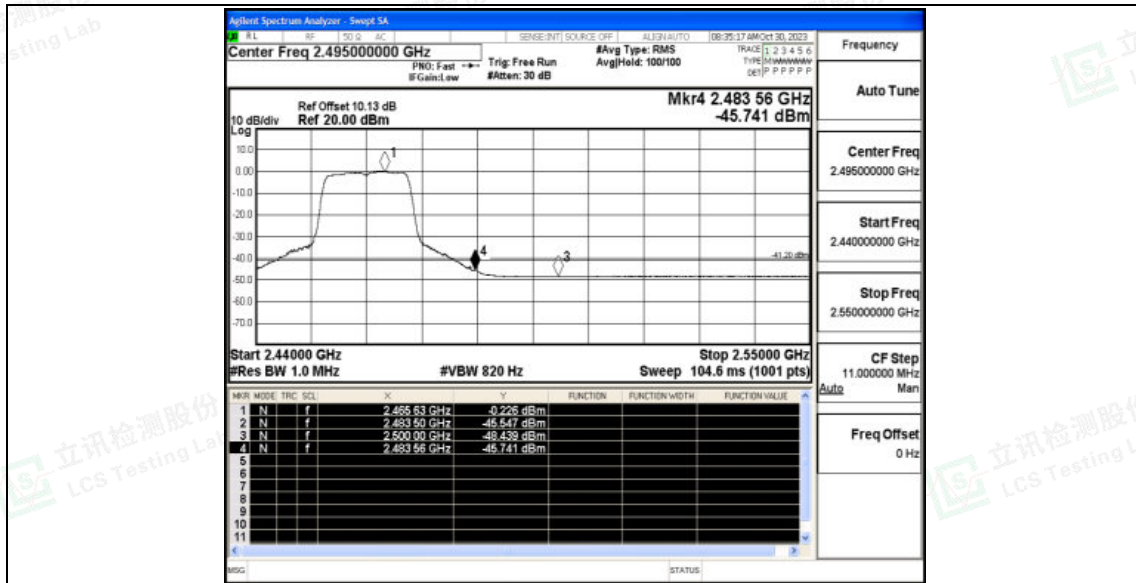


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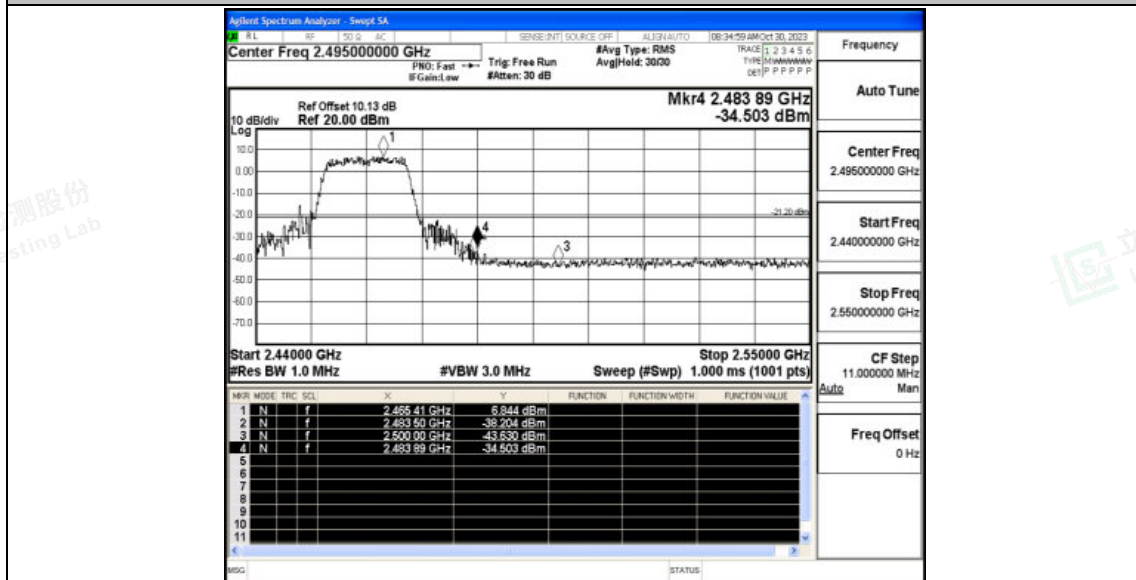
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

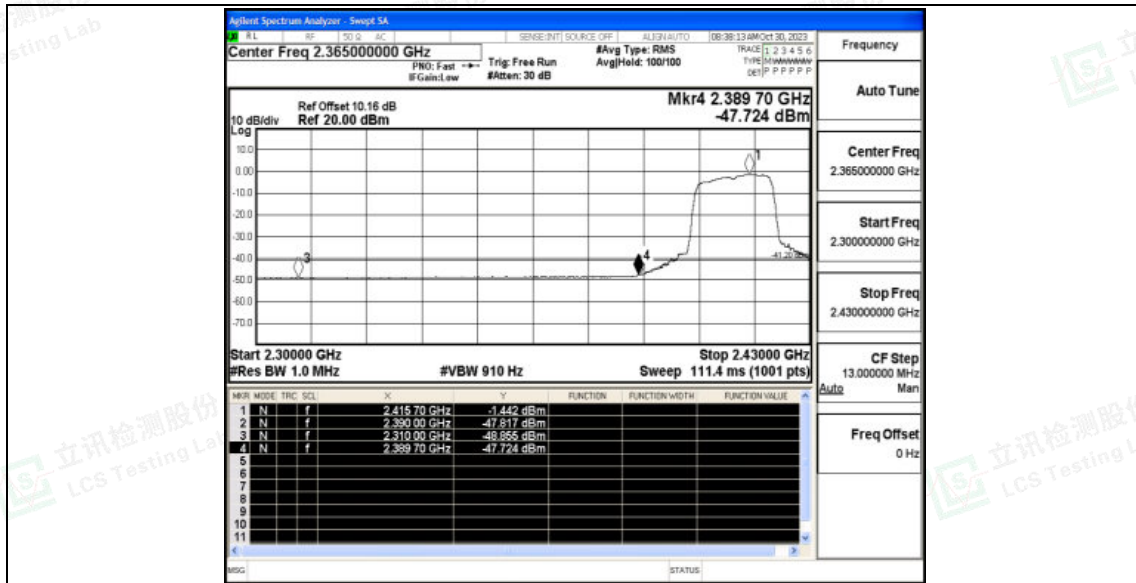


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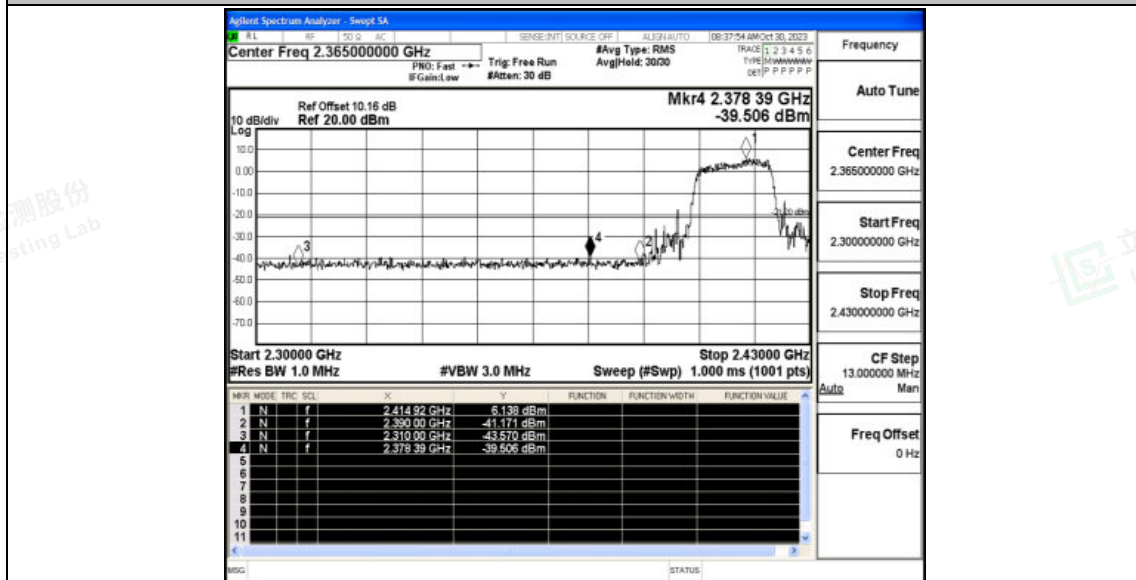
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

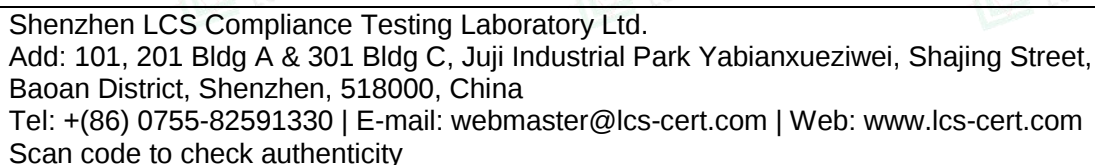
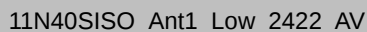
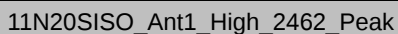
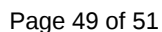


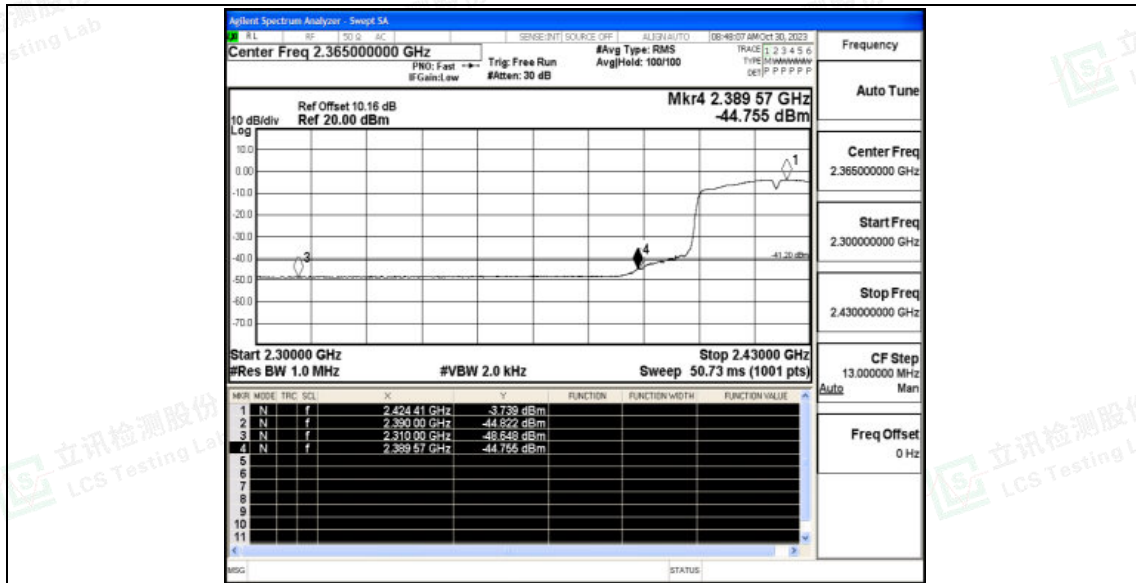
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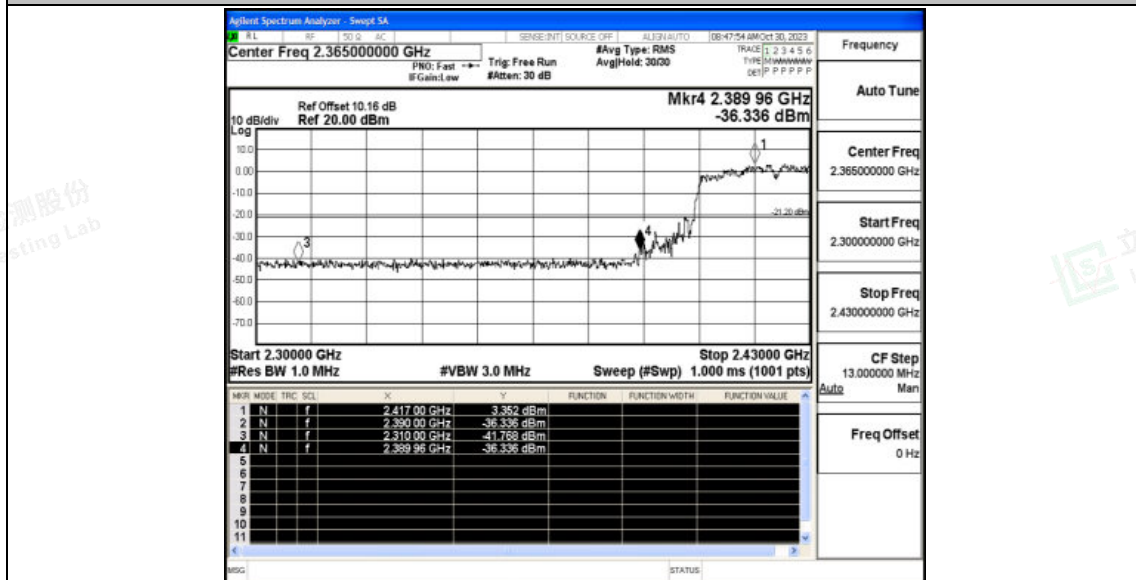
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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

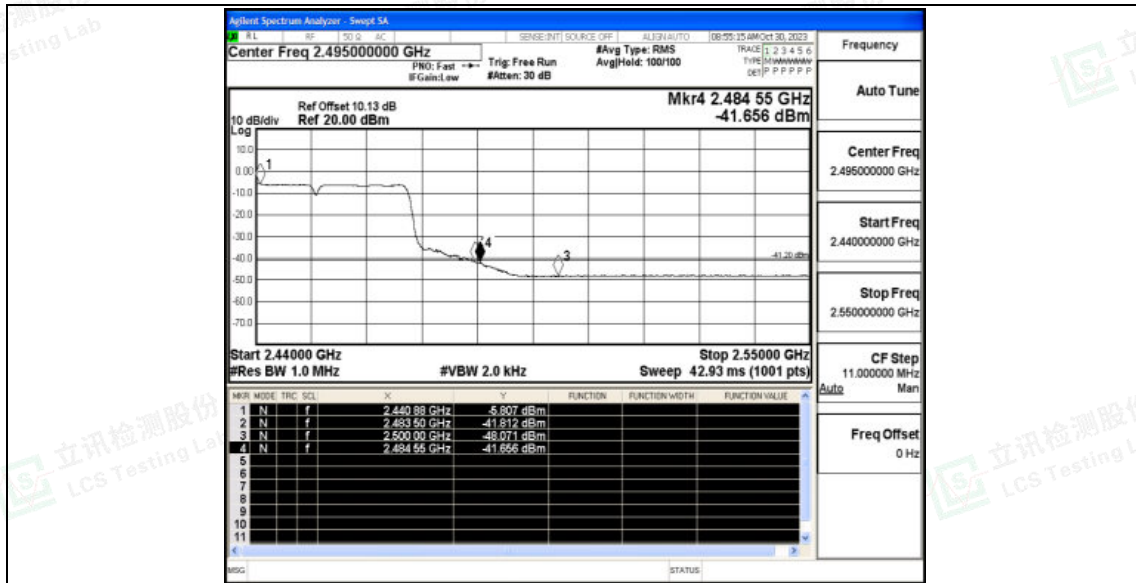


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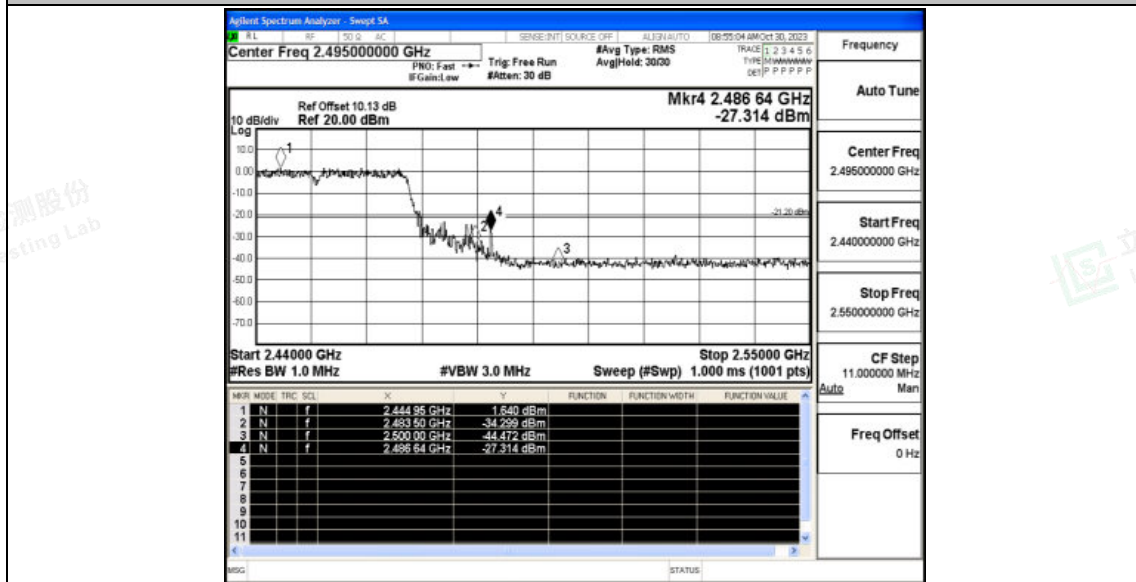
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_High_2452_Peak



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