



Appendix C

RF Test Data for 2.4GWIFI (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



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C.1 DTS Bandwidth

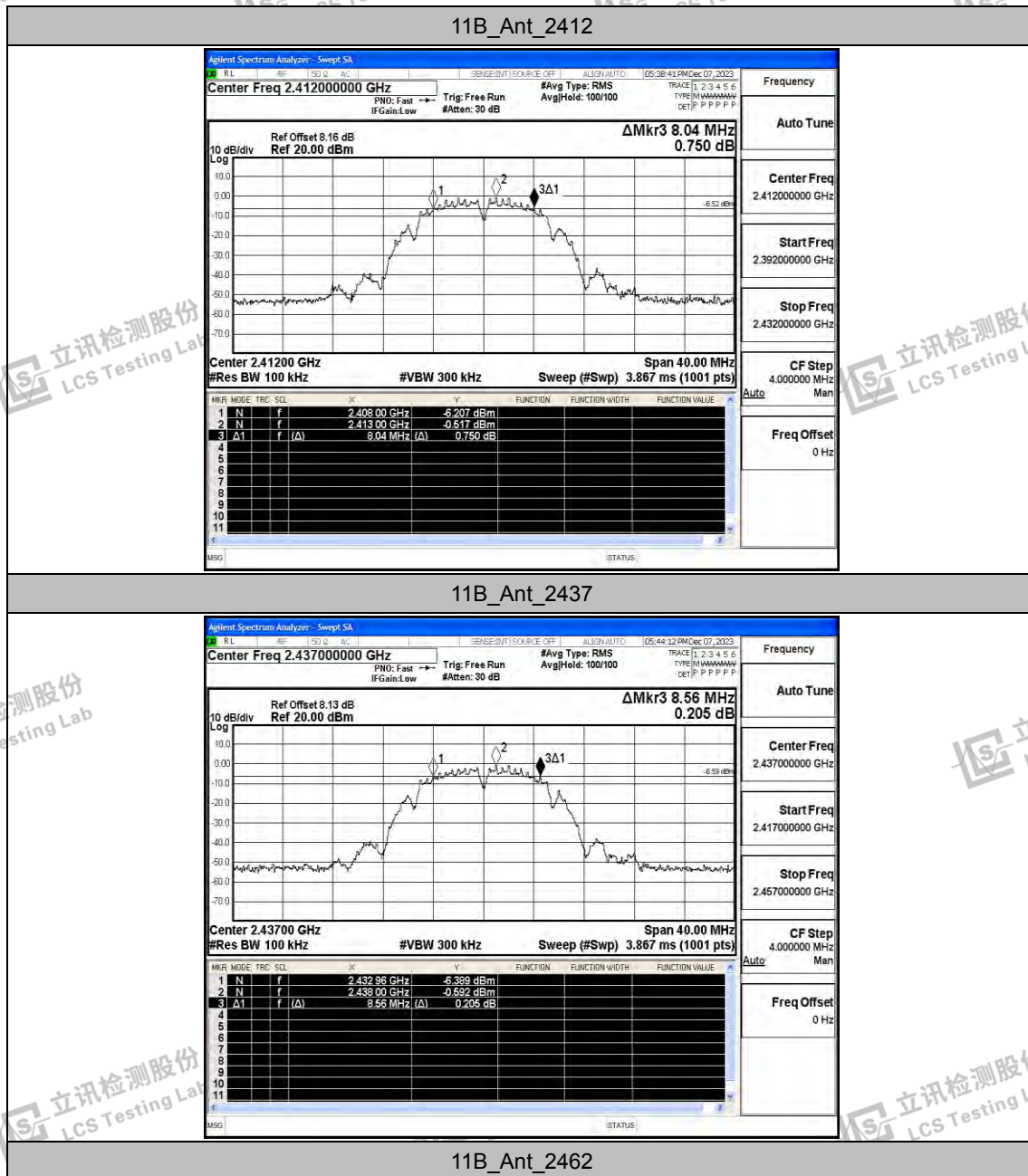
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	8.040	2408.000	2416.040	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant	2412	15.640	2404.560	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.080	2454.080	2470.160	0.5	PASS
11N20SISO	Ant	2412	16.360	2404.400	2420.760	0.5	PASS
		2437	17.000	2428.360	2445.360	0.5	PASS
		2462	17.080	2453.520	2470.600	0.5	PASS
11N40SISO	Ant	2422	35.680	2404.400	2440.080	0.5	PASS
		2437	35.440	2419.080	2454.520	0.5	PASS
		2452	33.120	2436.960	2470.080	0.5	PASS





Test Graphs

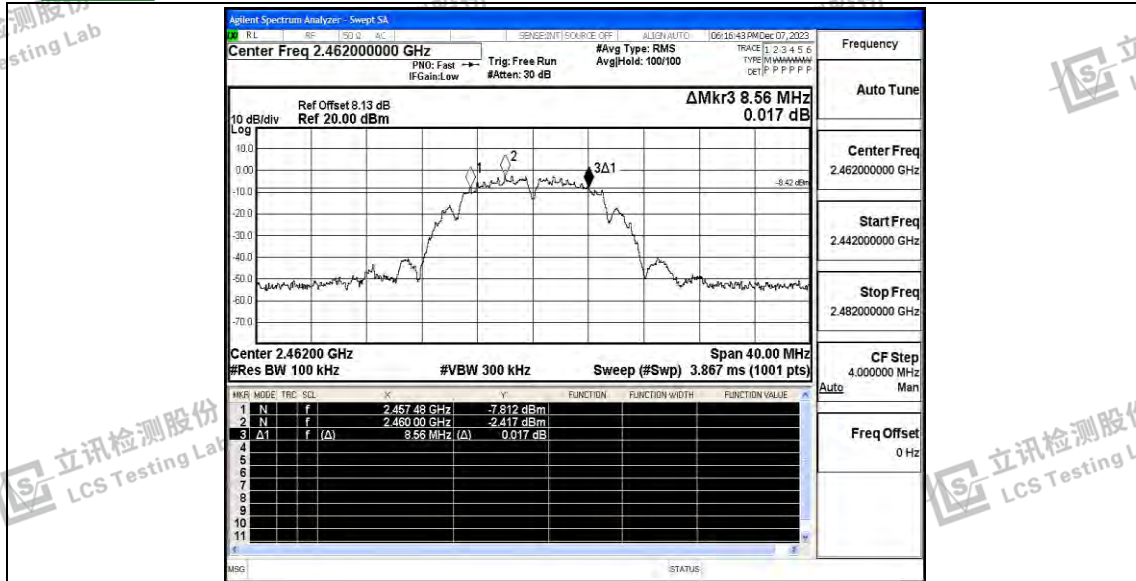


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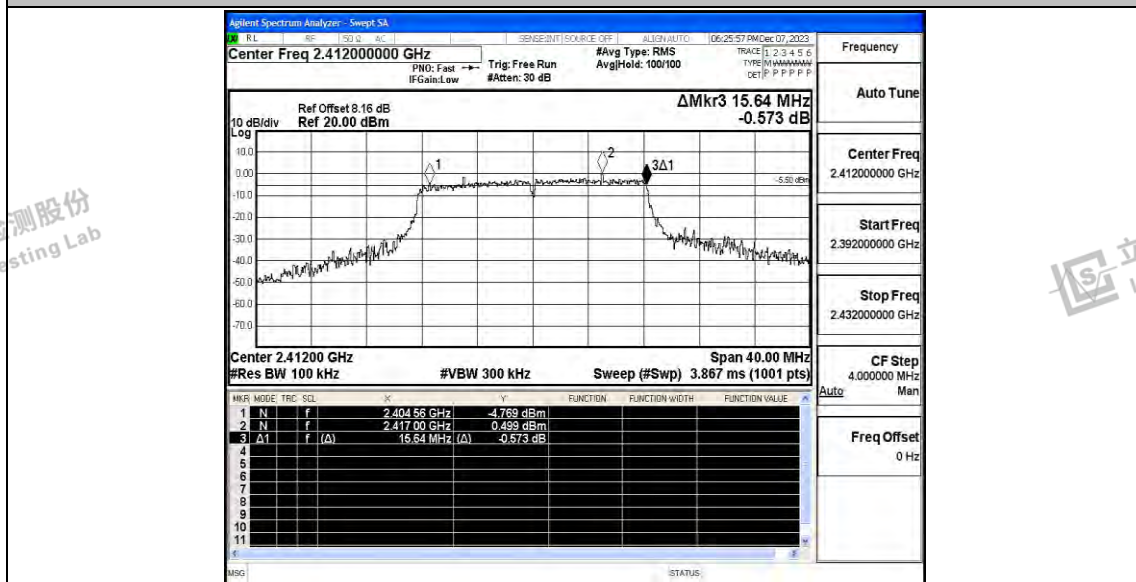
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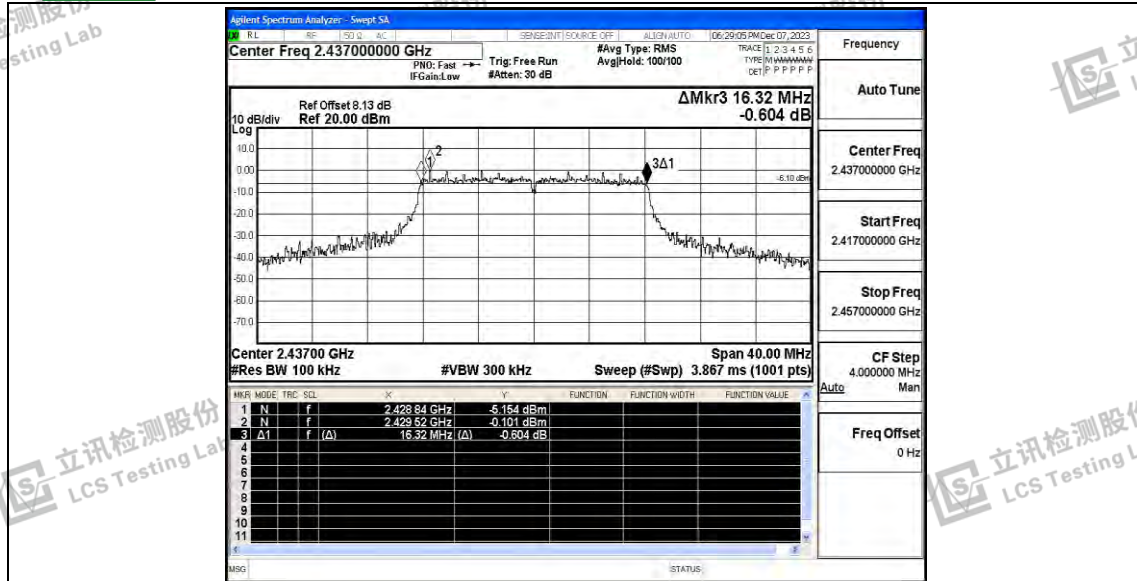


11G_Ant_2412

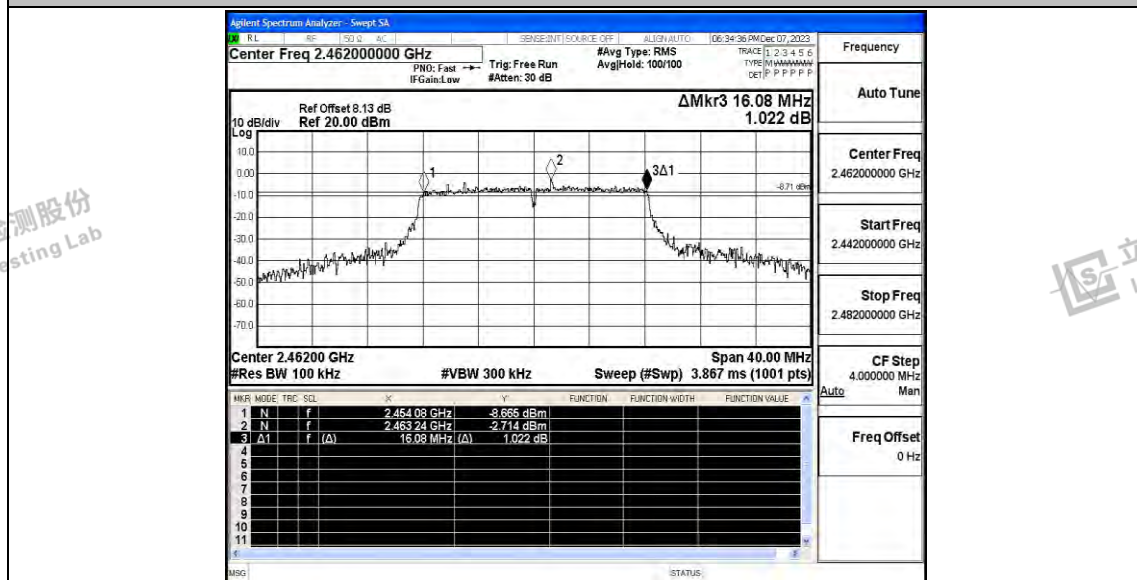


11G_Ant_2437



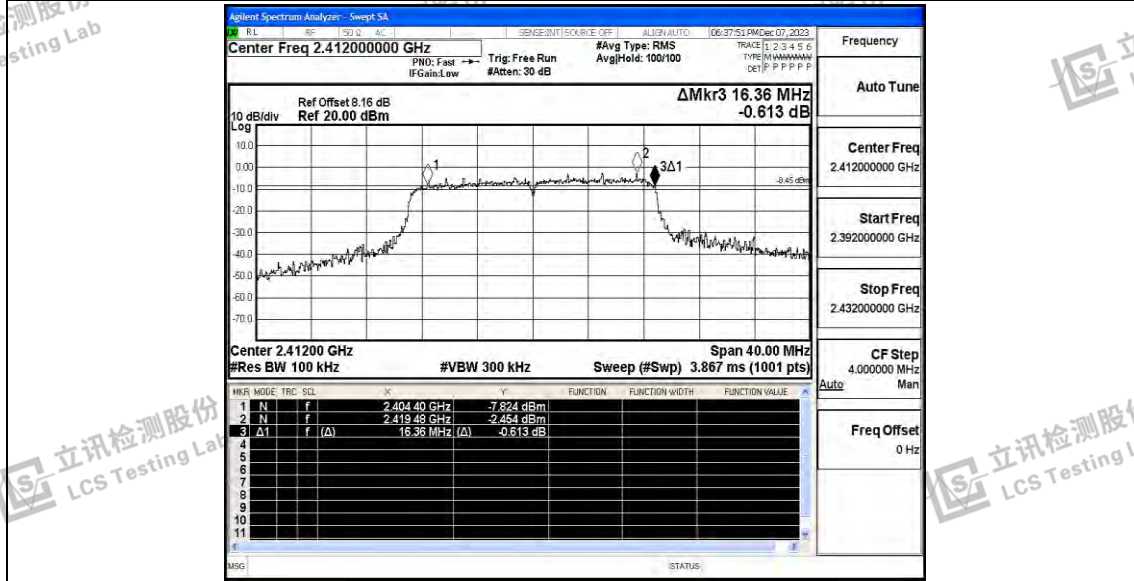


11G_Ant_2462

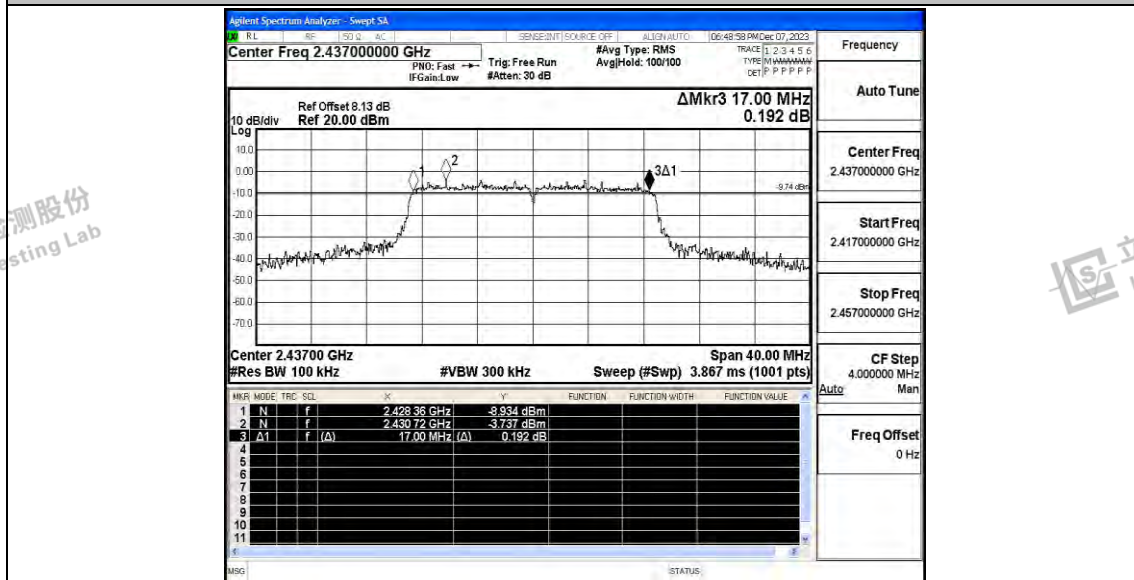


11N20SISO_Ant_2412





11N20SISO_Ant_2437



11N20SISO_Ant_2462

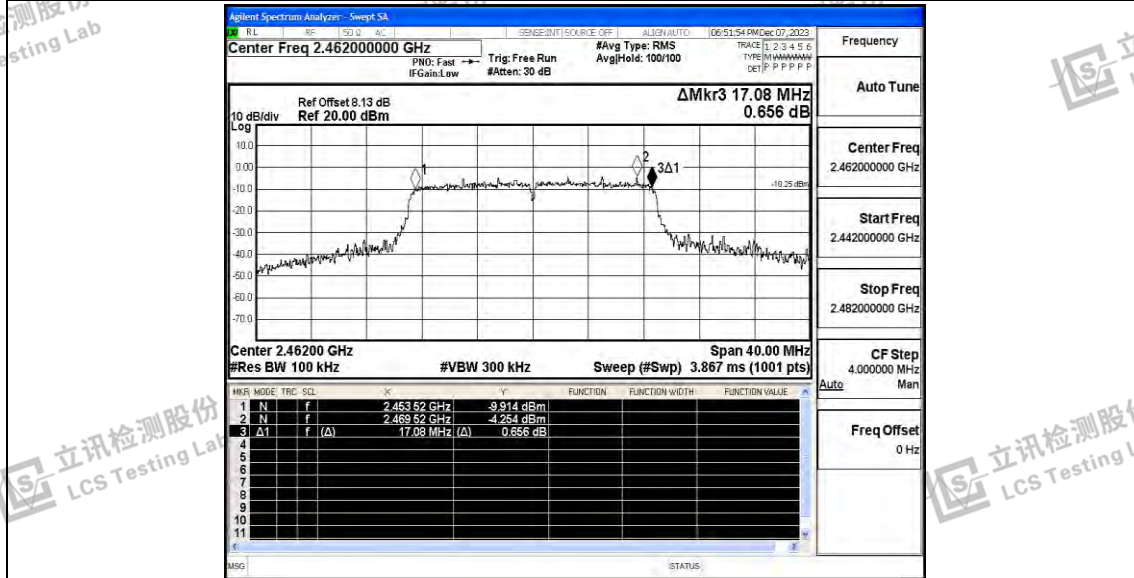


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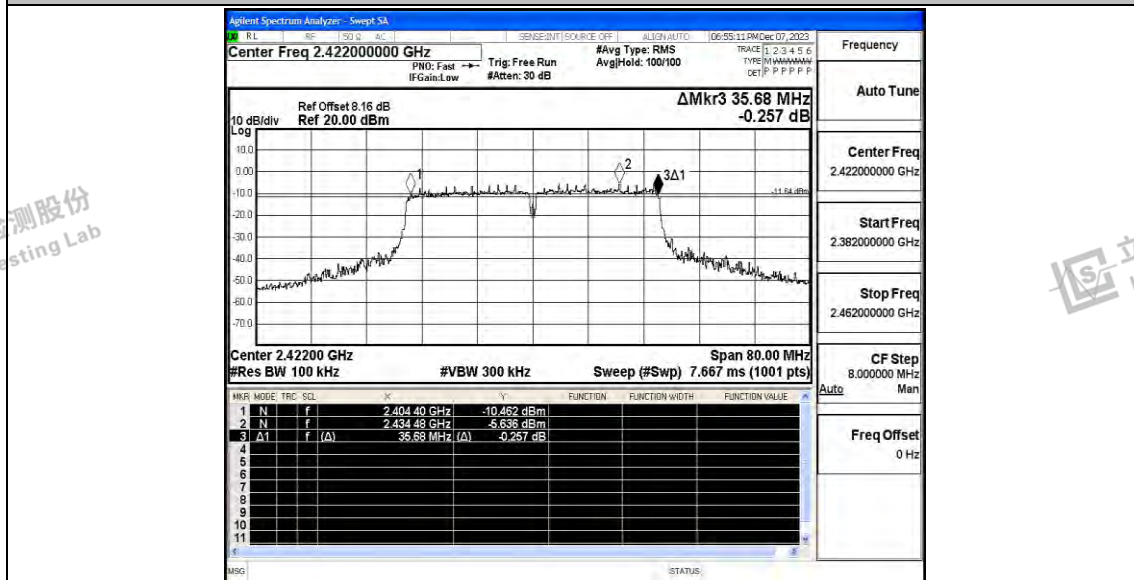
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

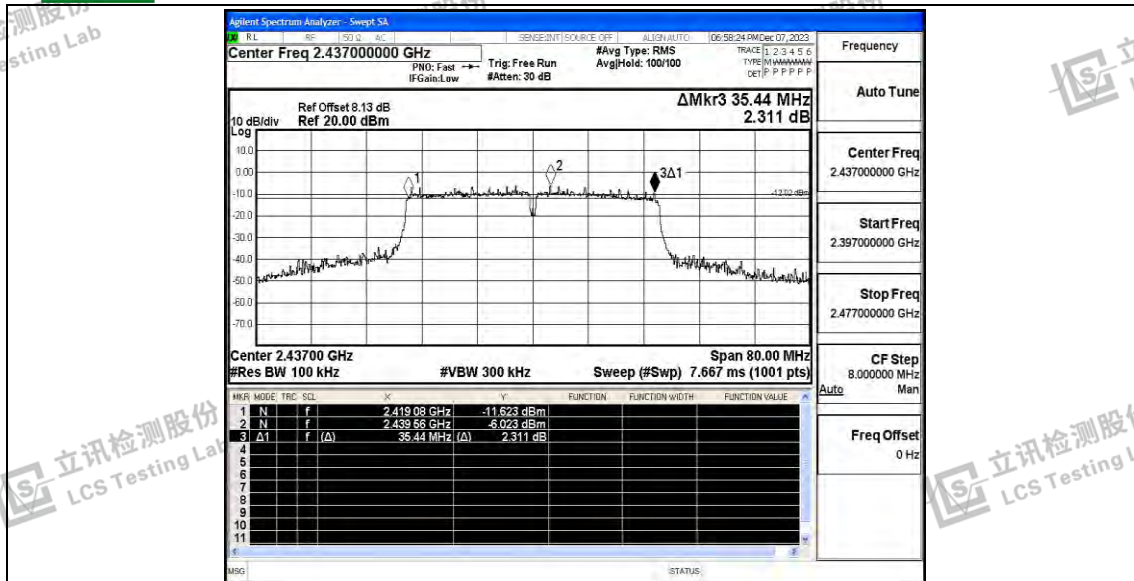


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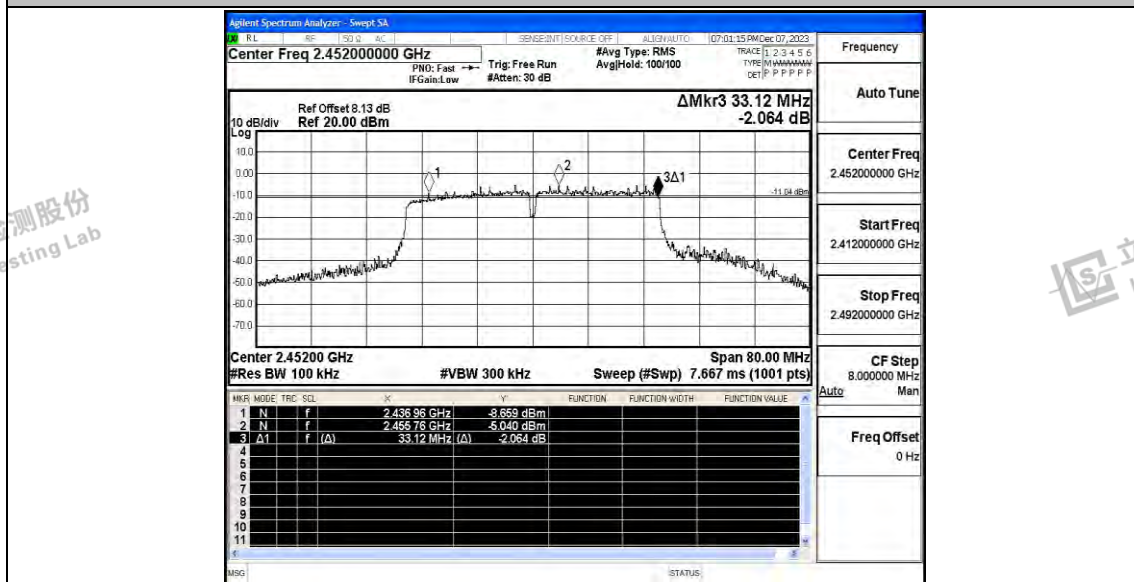
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11N40SISO_Ant_2452



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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	15.94	≤30.00	PASS
		2437	15.85	≤30.00	PASS
		2462	14.69	≤30.00	PASS
11G	Ant	2412	15.85	≤30.00	PASS
		2437	15.40	≤30.00	PASS
		2462	14.66	≤30.00	PASS
11N20SISO	Ant	2412	15.07	≤30.00	PASS
		2437	14.59	≤30.00	PASS
		2462	13.92	≤30.00	PASS
11N40SISO	Ant	2422	15.26	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2452	15.40	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant	2412	-9.74	≤8.00	PASS
		2437	-7.72	≤8.00	PASS
		2462	-9.17	≤8.00	PASS
11G	Ant	2412	-16.01	≤8.00	PASS
		2437	-16.63	≤8.00	PASS
		2462	-17.3	≤8.00	PASS
11N20SISO	Ant	2412	-15.87	≤8.00	PASS
		2437	-17.86	≤8.00	PASS
		2462	-16.85	≤8.00	PASS
11N40SISO	Ant	2422	-19.44	≤8.00	PASS
		2437	-19.41	≤8.00	PASS
		2452	-19.52	≤8.00	PASS





Test Graphs

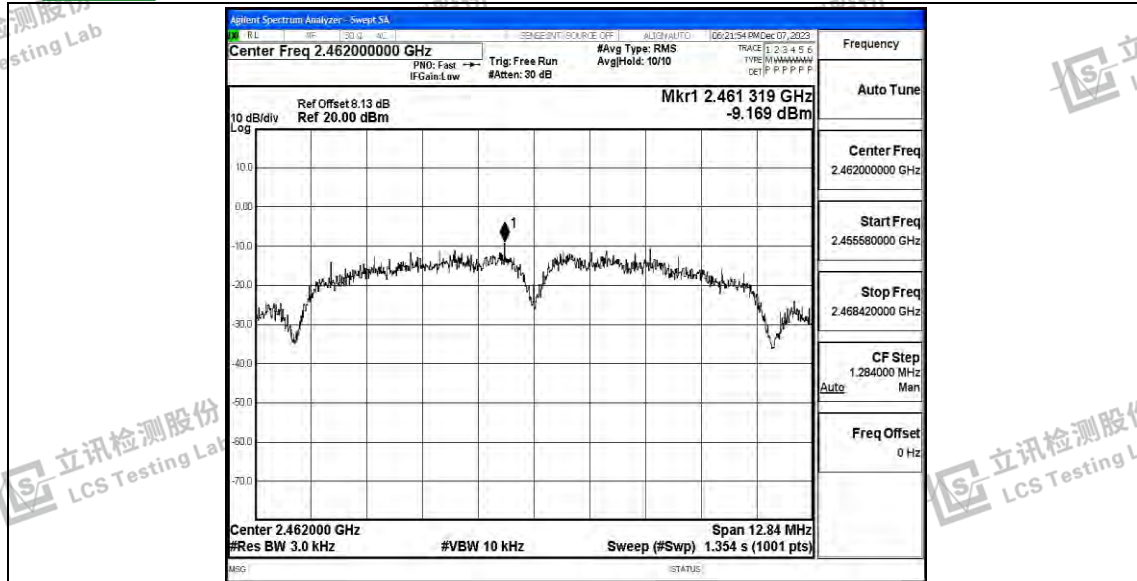


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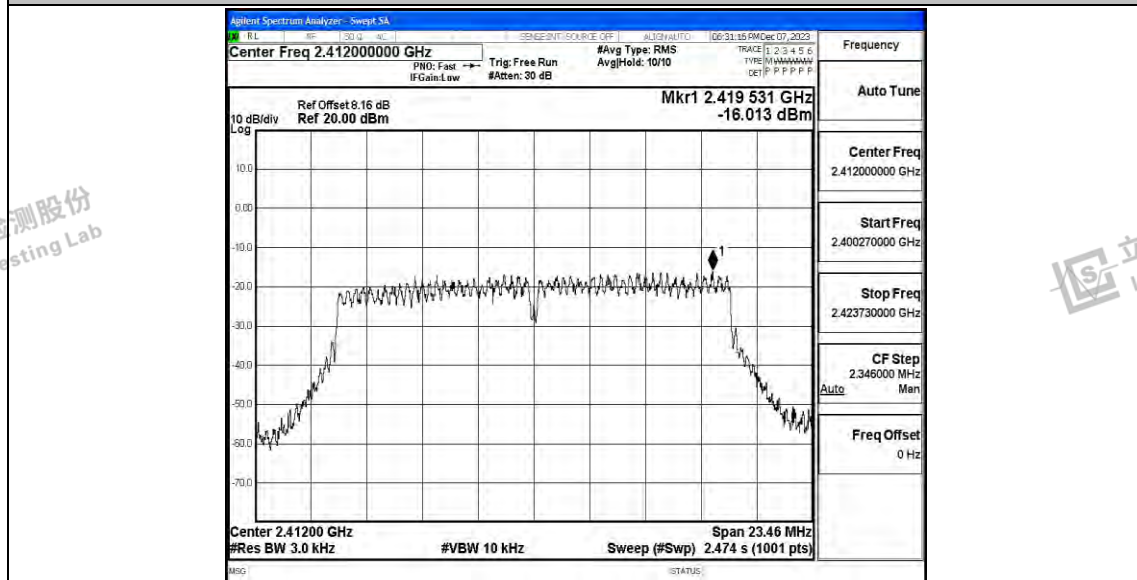
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11G_Ant_2412



11G_Ant_2437

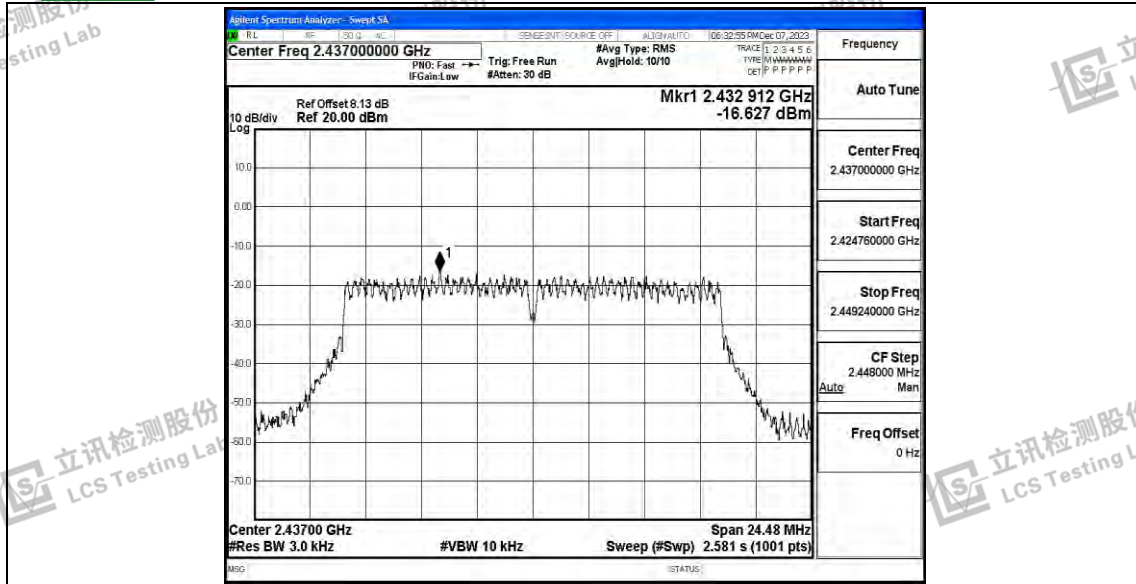


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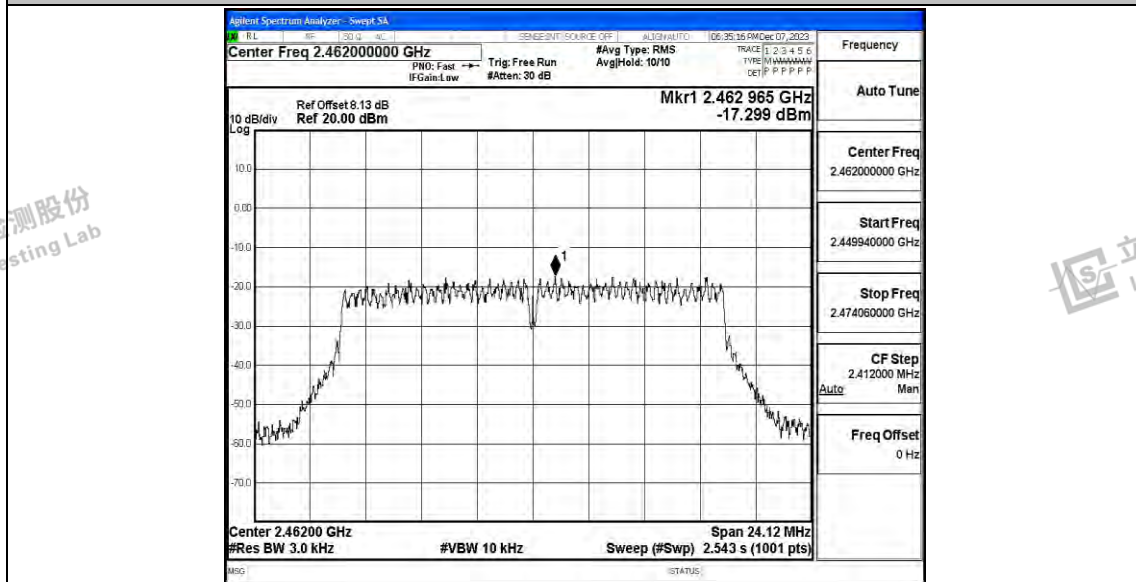
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11G_Ant_2462



11N20SISO_Ant_2412

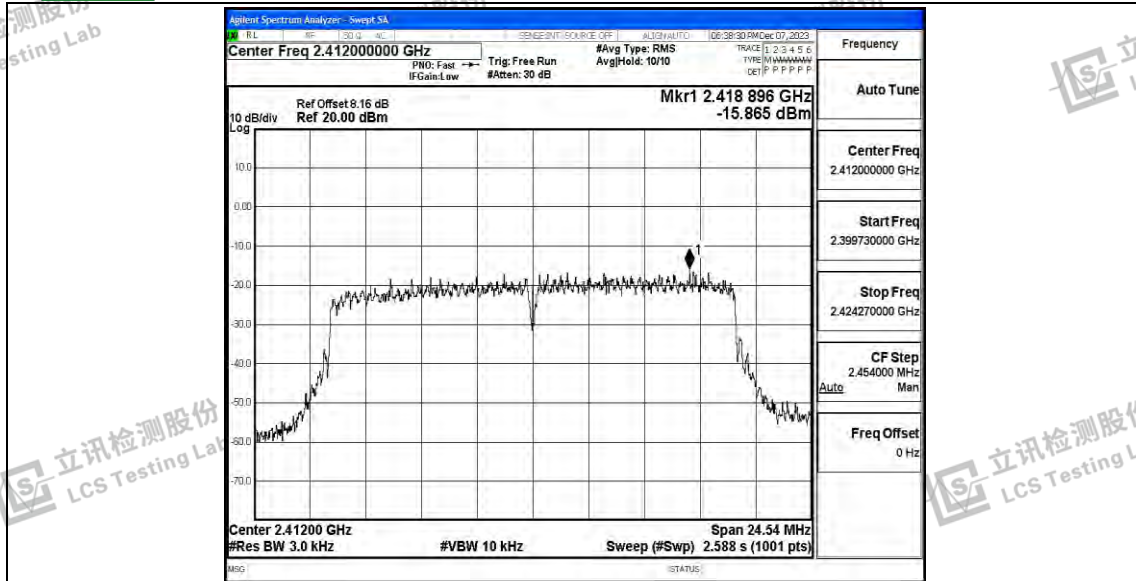


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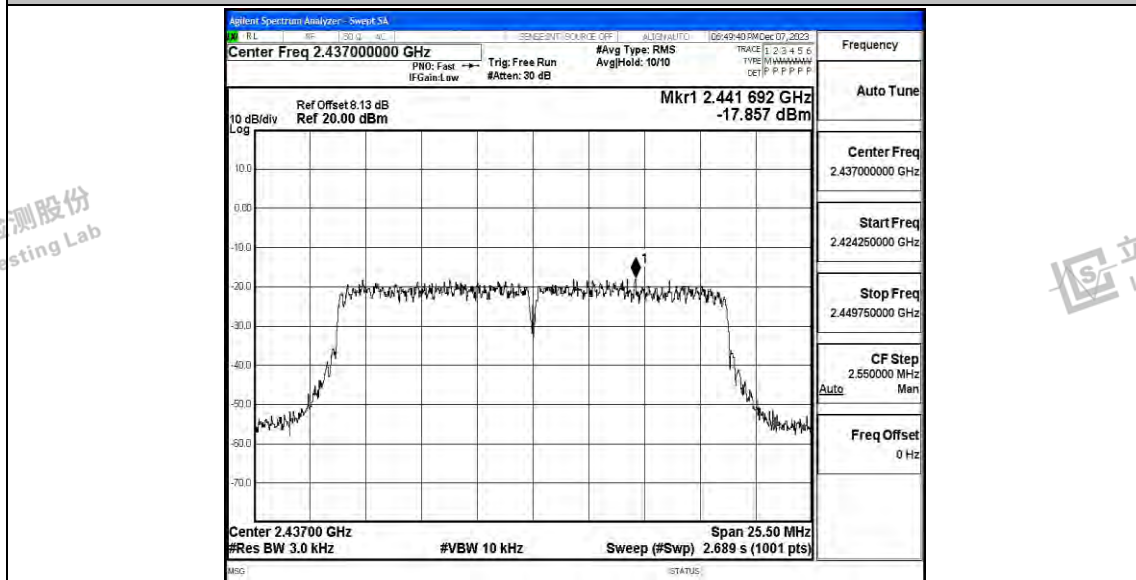
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

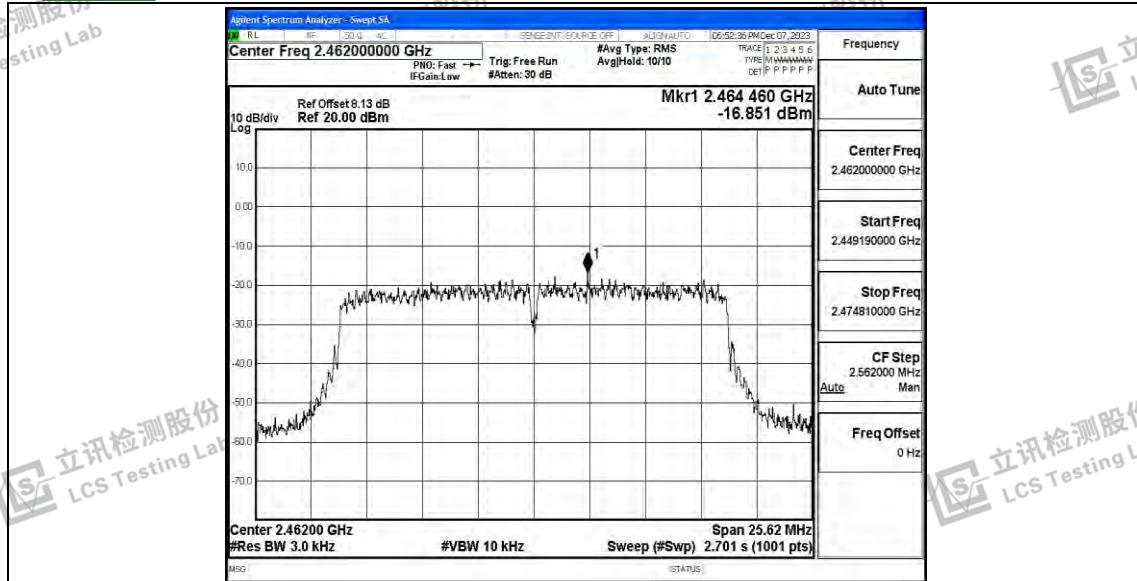


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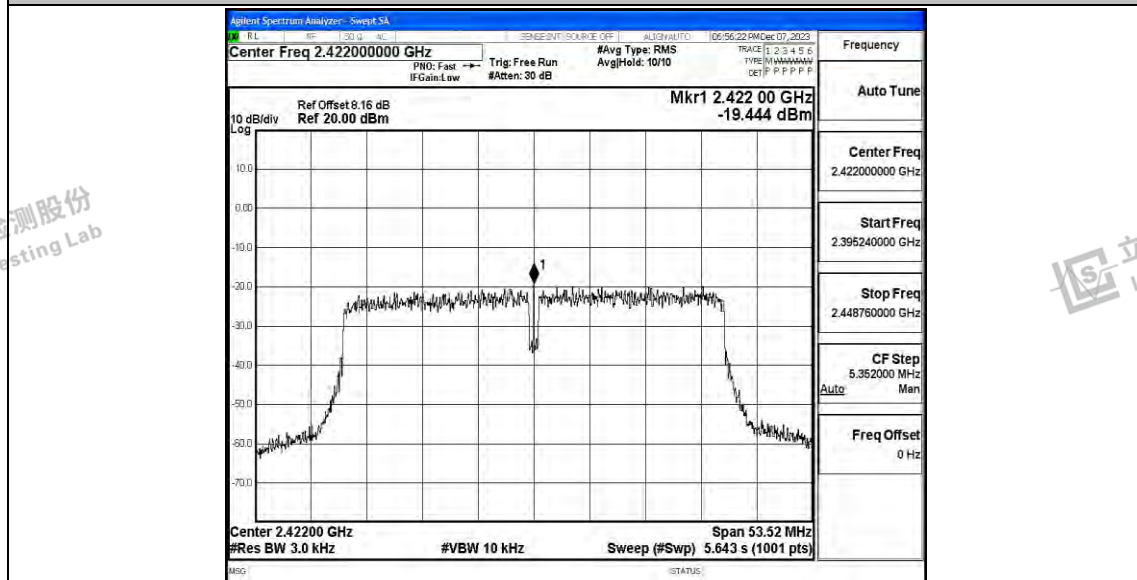
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

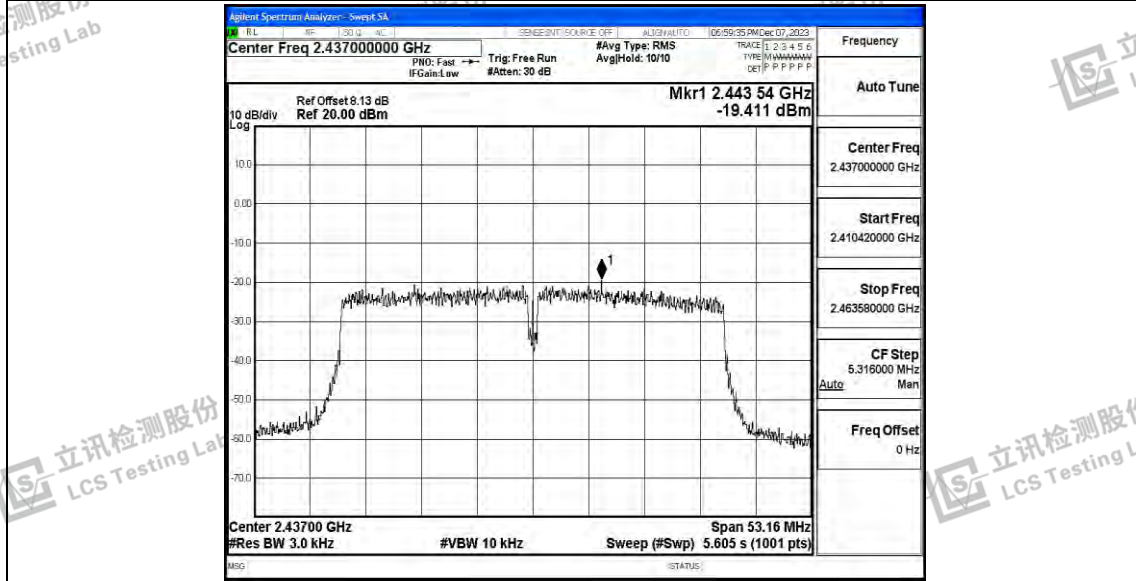


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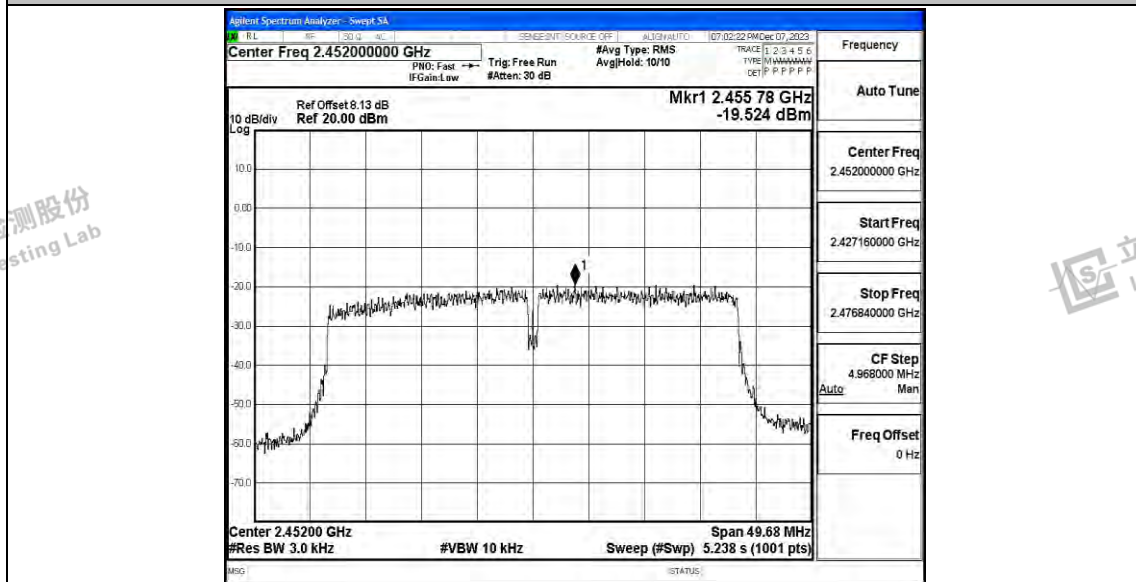
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11N40SISO_Ant_2452



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C.4 Band edge measurements

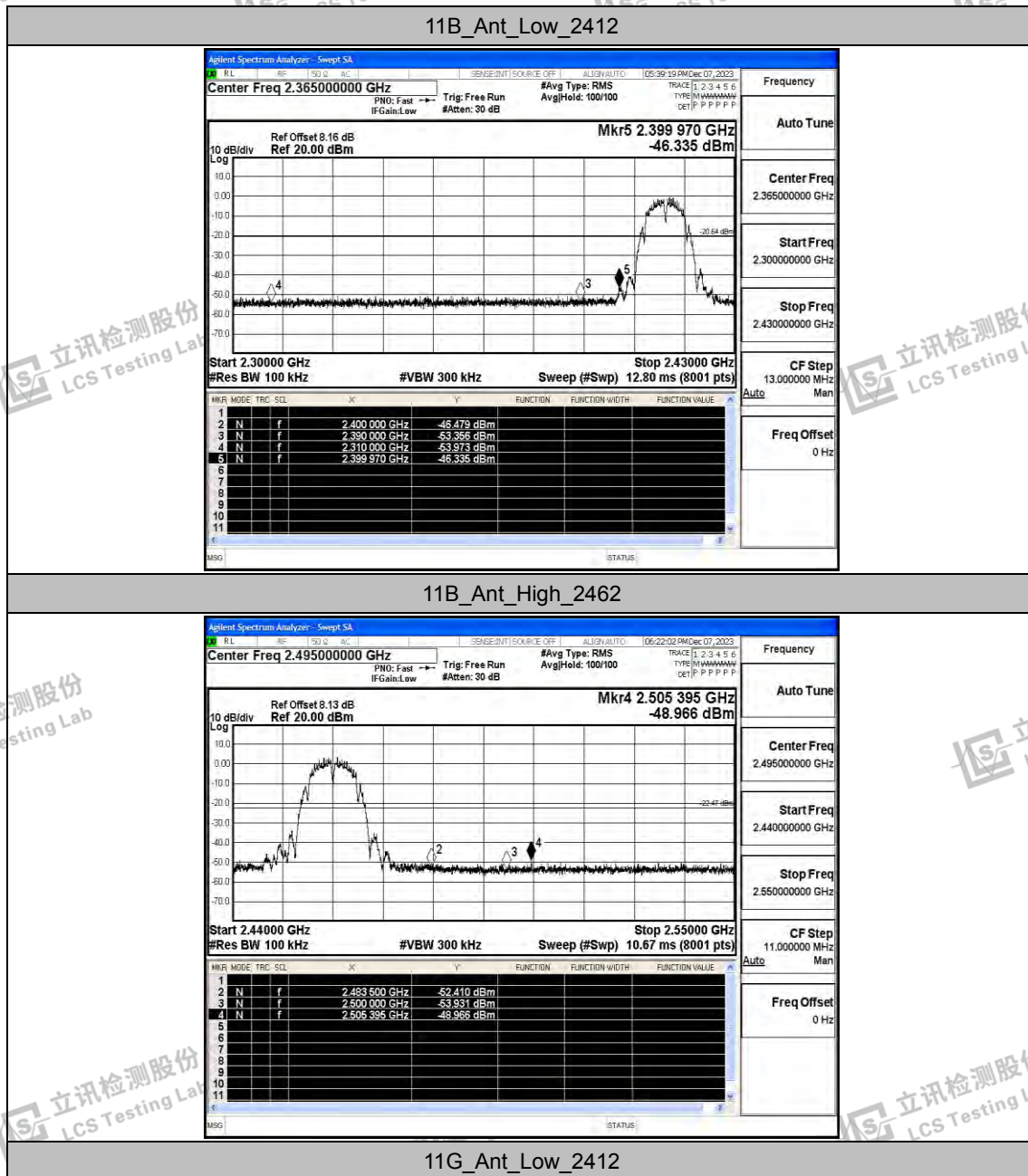
Test Result

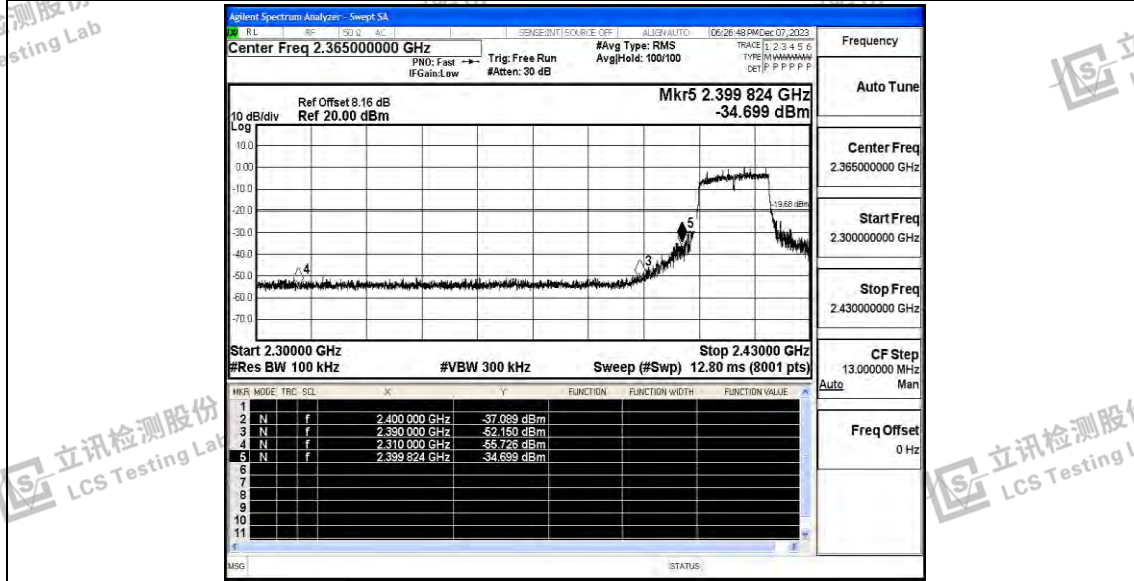
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	-0.64	-46.34	≤-20.64	PASS
		High	2462	-2.47	-48.97	≤-22.47	PASS
11G	Ant	Low	2412	0.32	-34.7	≤-19.68	PASS
		High	2462	-3.21	-44.6	≤-23.21	PASS
11N20SISO	Ant	Low	2412	-2.56	-36.11	≤-22.56	PASS
		High	2462	-3.77	-44.6	≤-23.77	PASS
11N40SISO	Ant	Low	2422	-5.49	-36.67	≤-25.49	PASS
		High	2452	-5.04	-39.36	≤-25.04	PASS



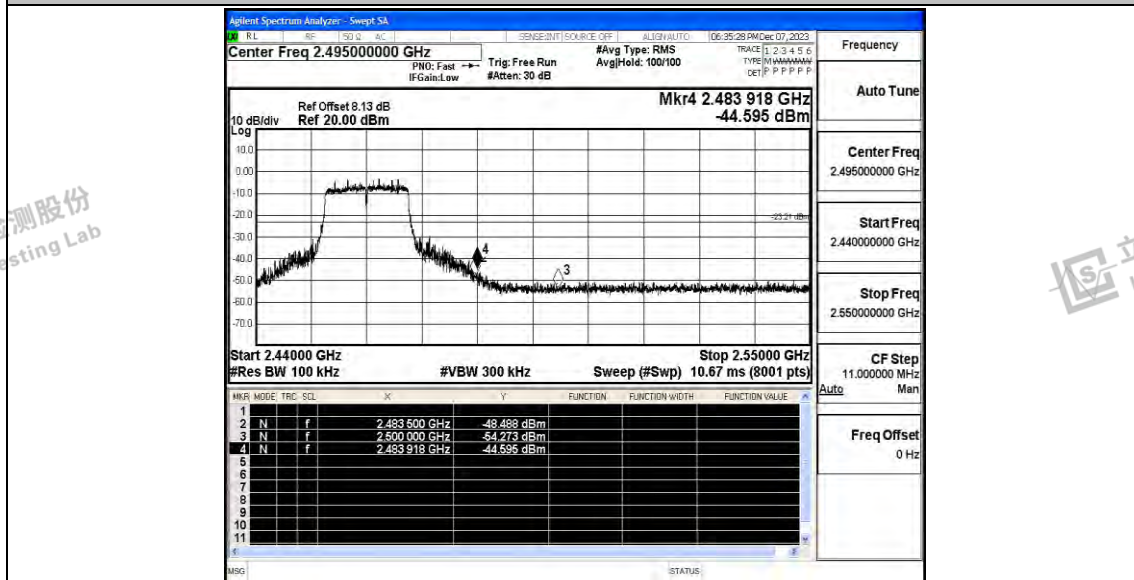


Test Graphs





11G_Ant_High_2462



11N20SiSO_Ant_Low_2412

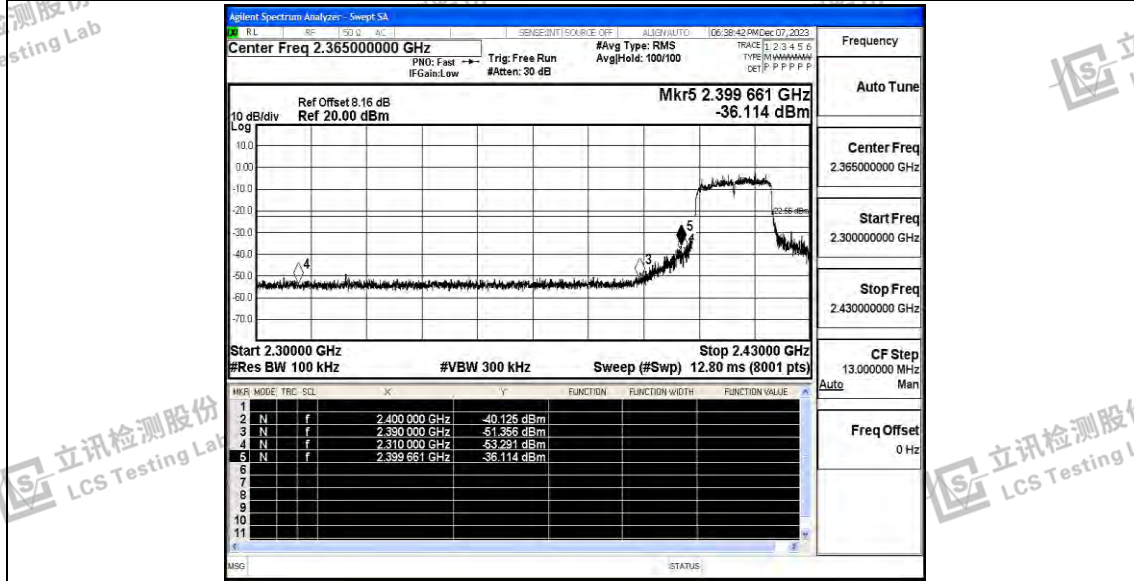


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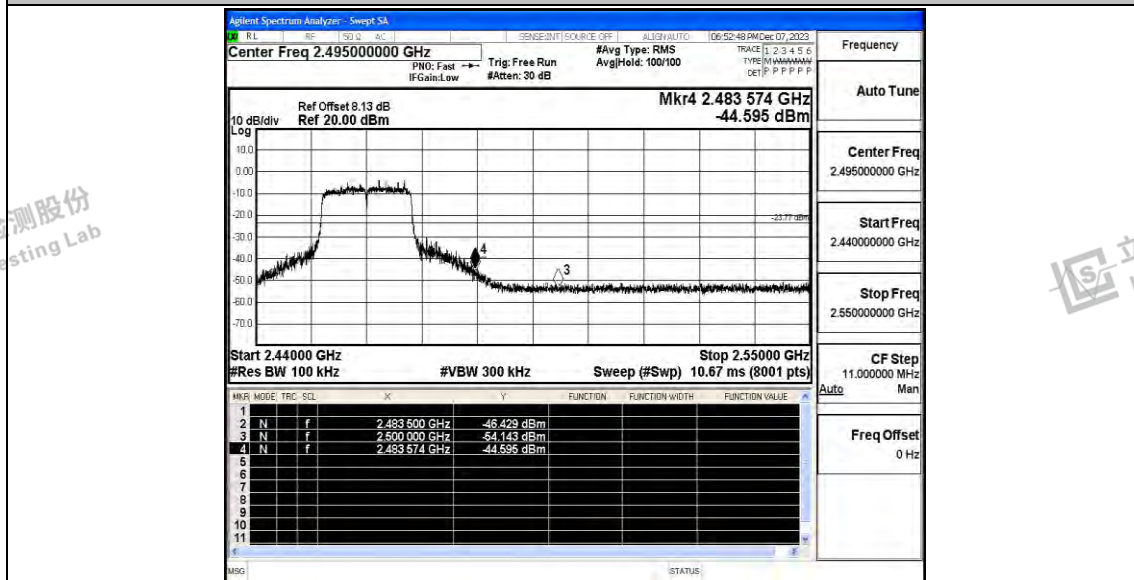
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11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

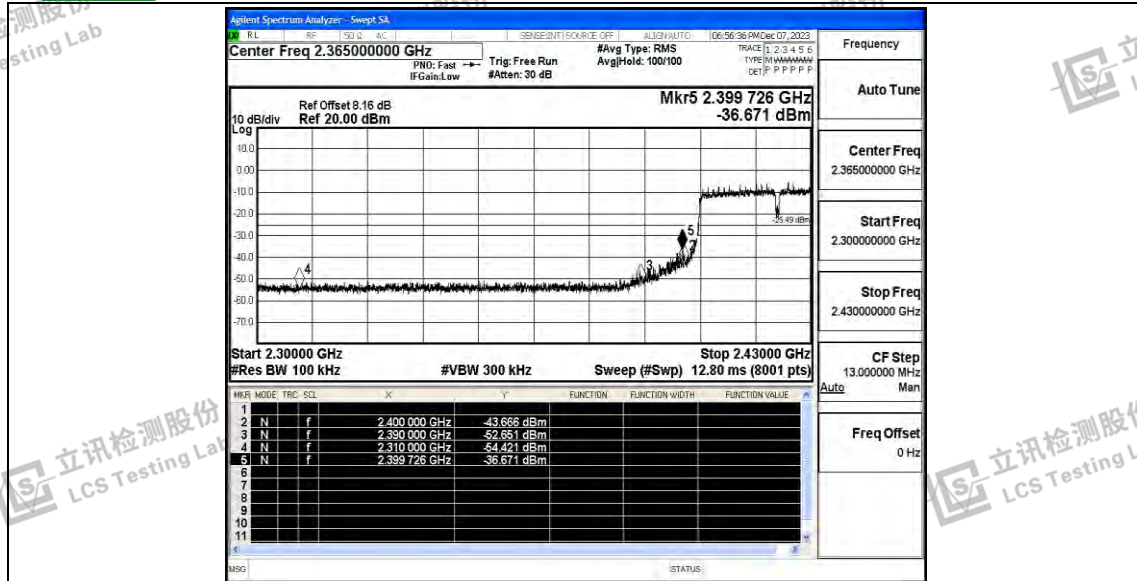


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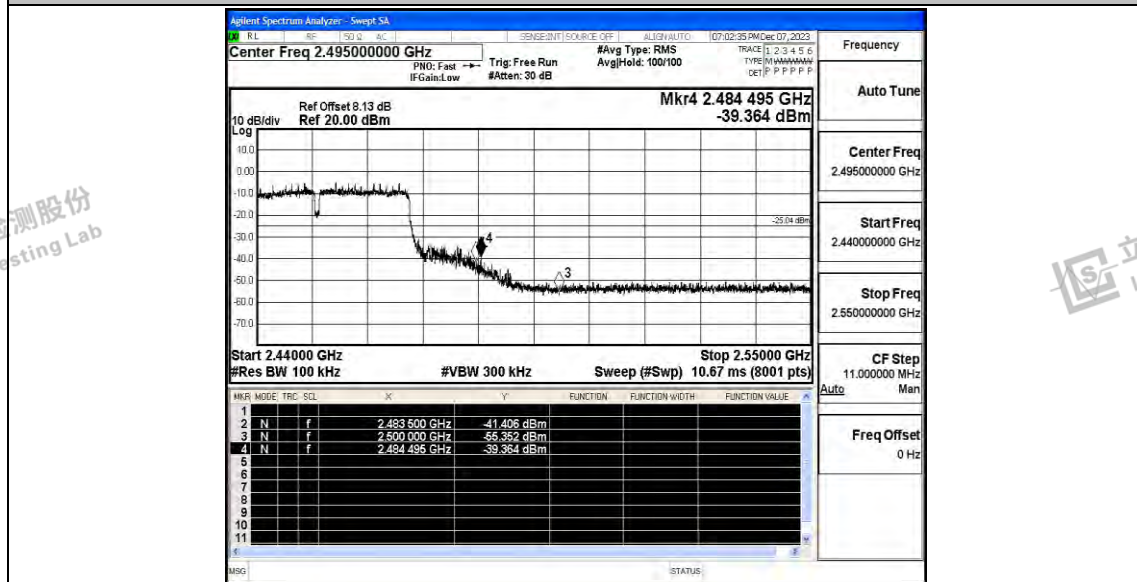
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11N40SISO_Ant_High_2452





C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	30~1000	-0.64	-61.79	≤-20.64	PASS
			1000~26500	-0.64	-48.68	≤-20.64	PASS
		2437	30~1000	-0.67	-61.61	≤-20.67	PASS
			1000~26500	-0.67	-48.69	≤-20.67	PASS
		2462	30~1000	-2.47	-61.19	≤-22.47	PASS
			1000~26500	-2.47	-48.92	≤-22.47	PASS
11G	Ant	2412	30~1000	0.32	-60.93	≤-19.68	PASS
			1000~26500	0.32	-49.17	≤-19.68	PASS
		2437	30~1000	-2.26	-61.84	≤-22.26	PASS
			1000~26500	-2.26	-49.27	≤-22.26	PASS
		2462	30~1000	-3.21	-61.44	≤-23.21	PASS
			1000~26500	-3.21	-48.8	≤-23.21	PASS
11N20SISO	Ant	2412	30~1000	-2.56	-61.32	≤-22.56	PASS
			1000~26500	-2.56	-49.37	≤-22.56	PASS
		2437	30~1000	-4.49	-61.11	≤-24.49	PASS
			1000~26500	-4.49	-48.9	≤-24.49	PASS
		2462	30~1000	-3.77	-61.85	≤-23.77	PASS
			1000~26500	-3.77	-49.29	≤-23.77	PASS
11N40SISO	Ant	2422	30~1000	-5.49	-61.84	≤-25.49	PASS
			1000~26500	-5.49	-48.82	≤-25.49	PASS
		2437	30~1000	-5.86	-61.86	≤-25.86	PASS
			1000~26500	-5.86	-49.22	≤-25.86	PASS
		2452	30~1000	-5.04	-61.24	≤-25.04	PASS
			1000~26500	-5.04	-48.6	≤-25.04	PASS



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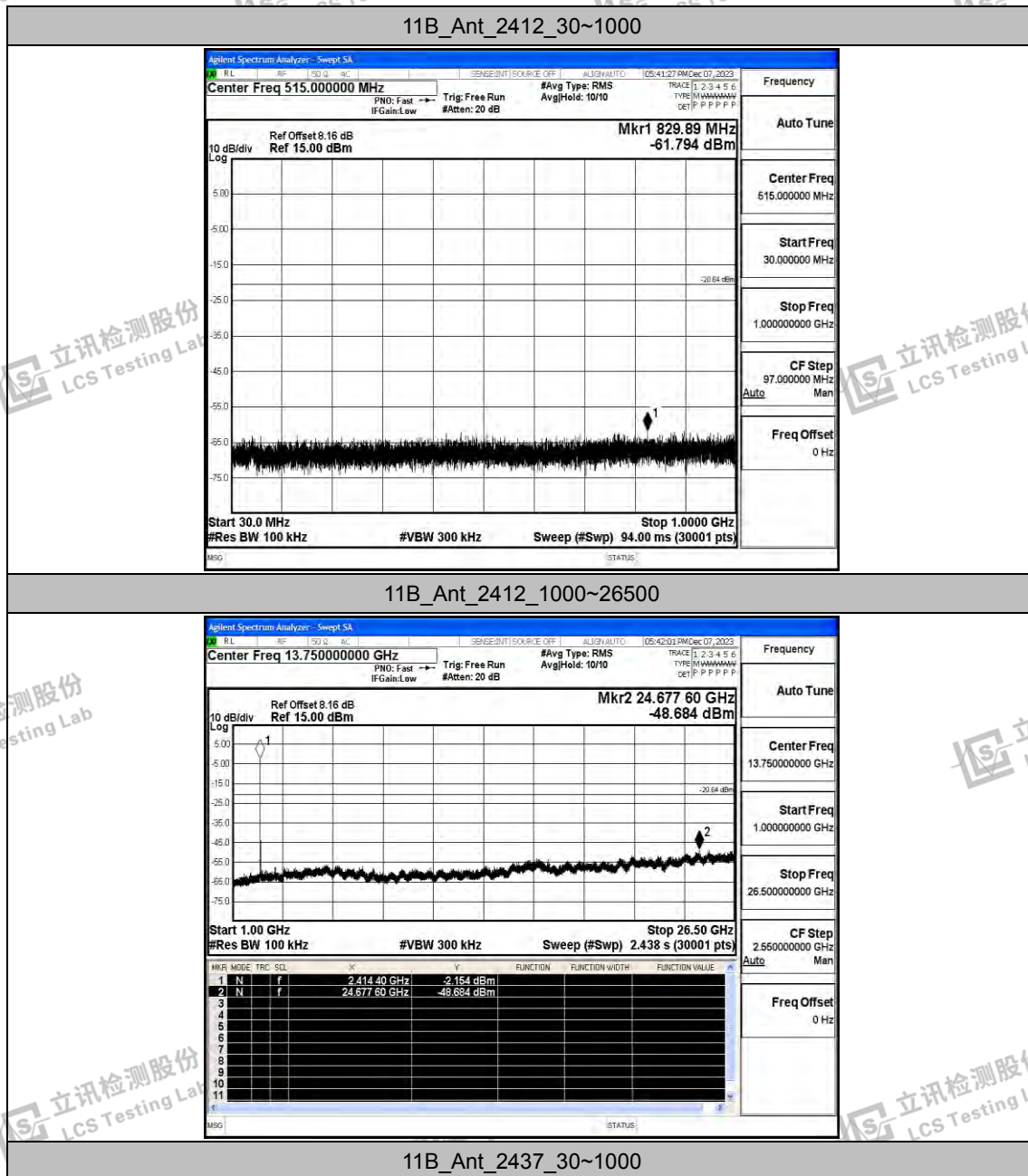
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Test Graphs

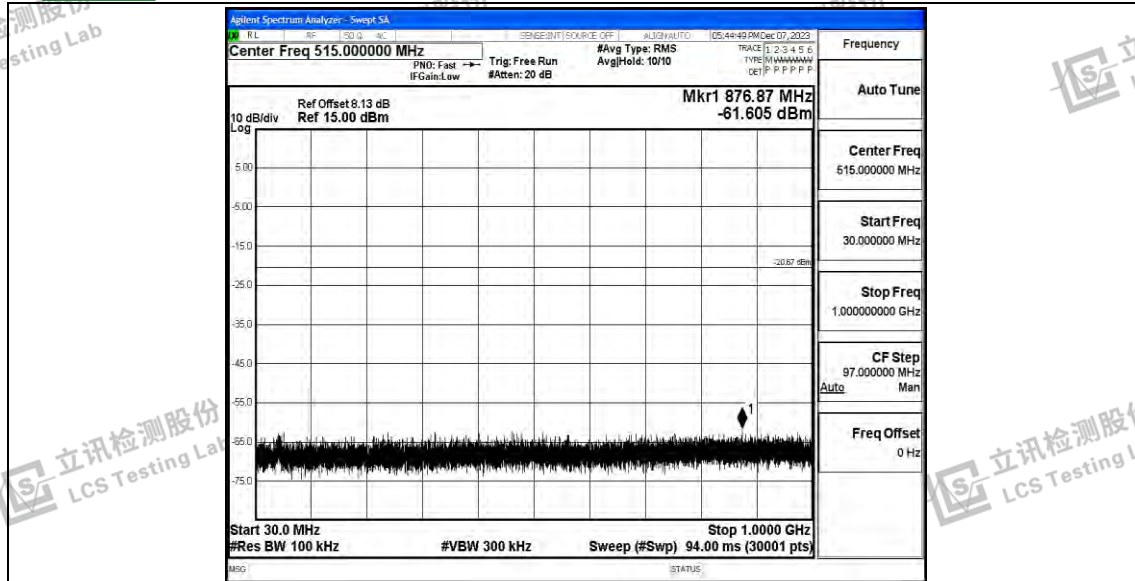


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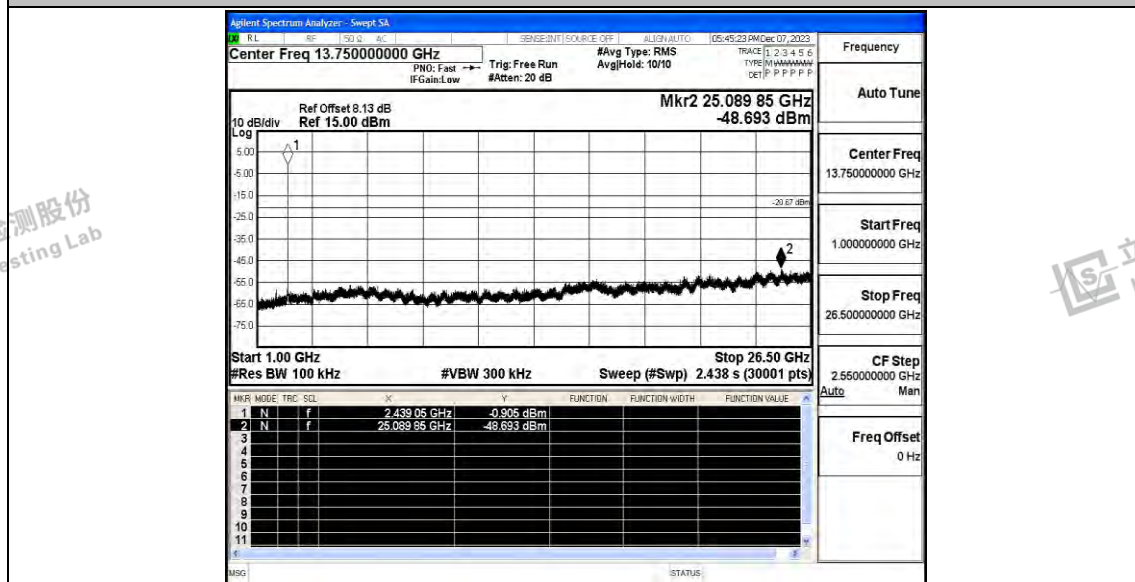
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11B_Ant_2437_1000~26500



11B_Ant_2462_30~1000

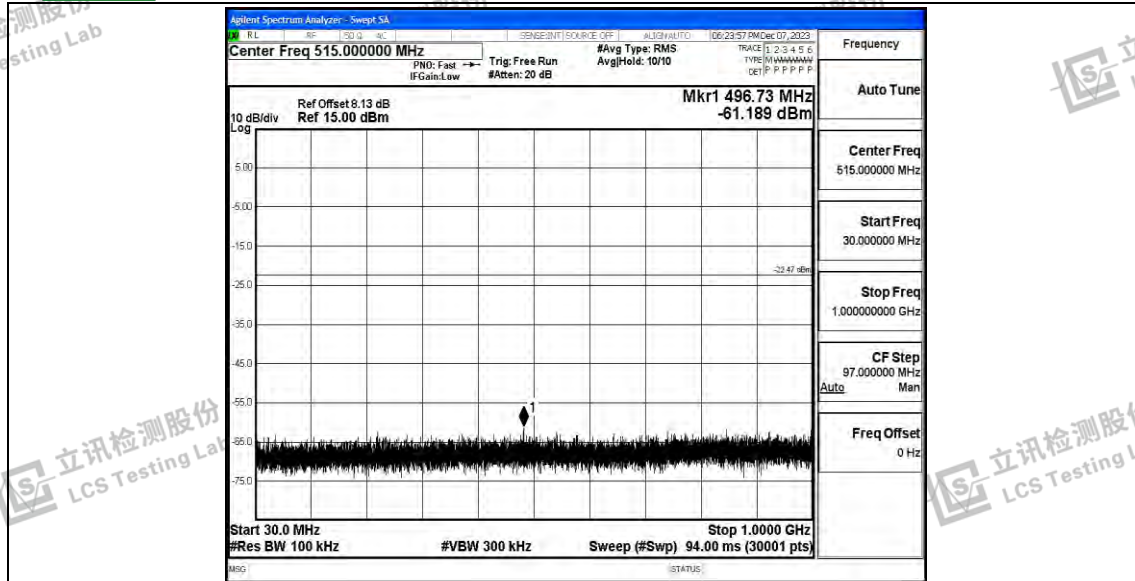


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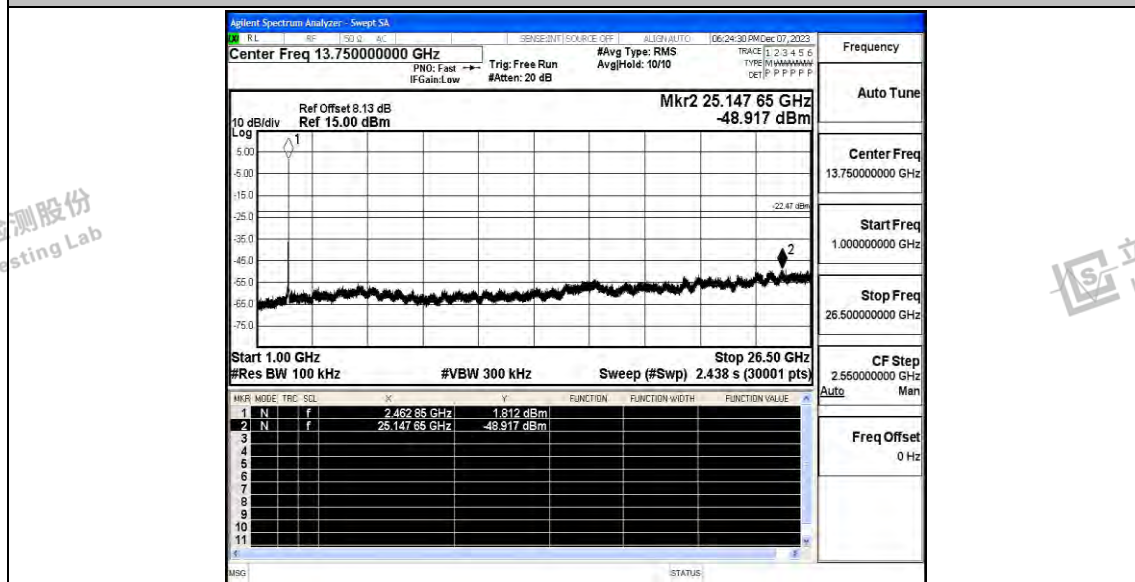
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11B_Ant_2462_1000~26500



11G_Ant_2412_30~1000

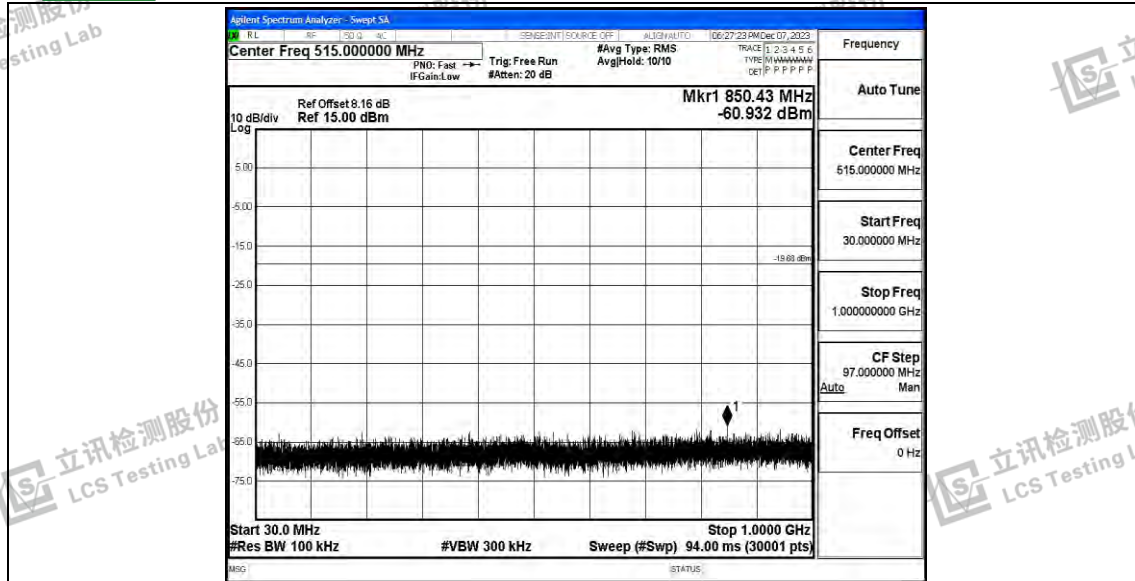


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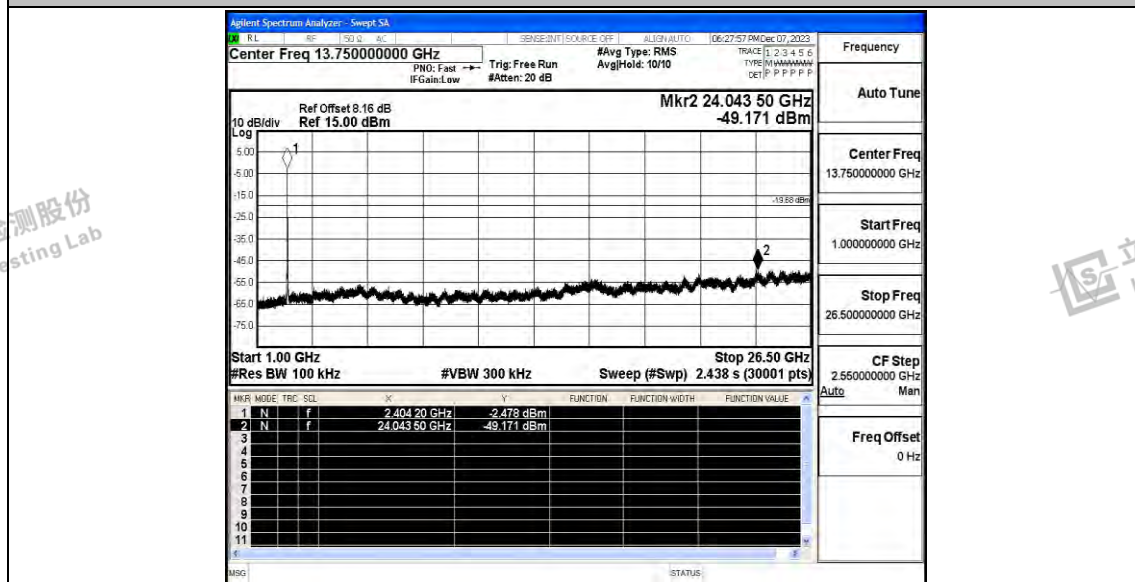
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11G_Ant_2412_1000~26500



11G_Ant_2437_30~1000

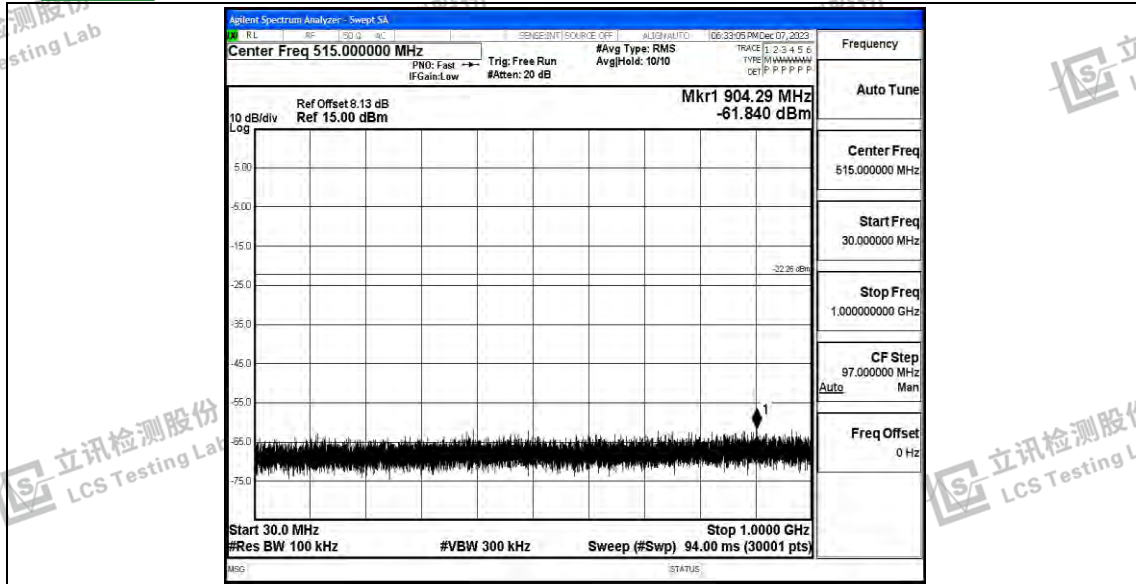


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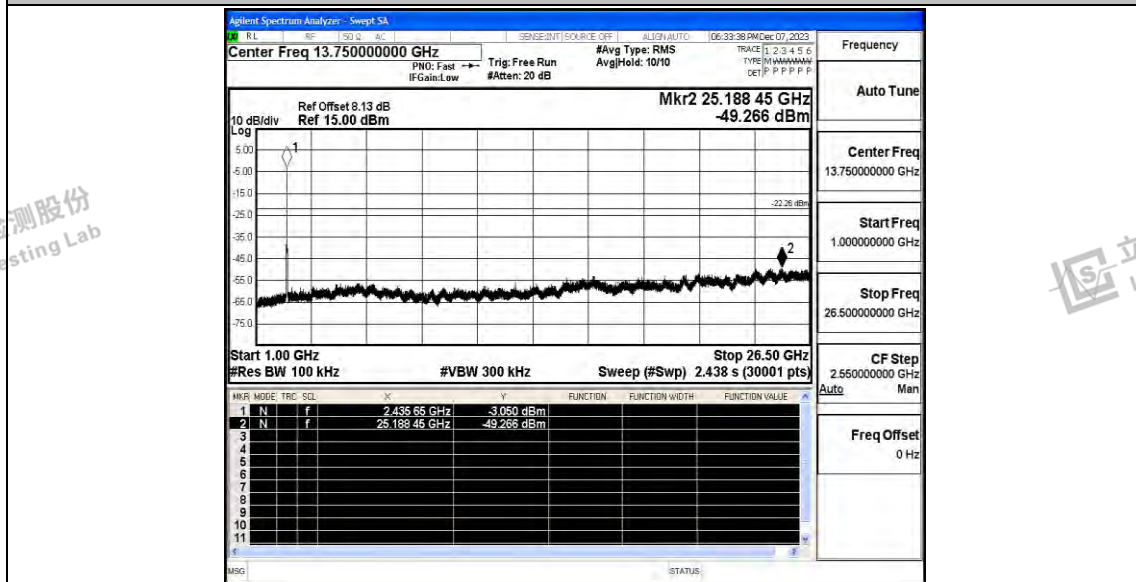
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11G_Ant_2437_1000~26500



11G_Ant_2462_30~1000

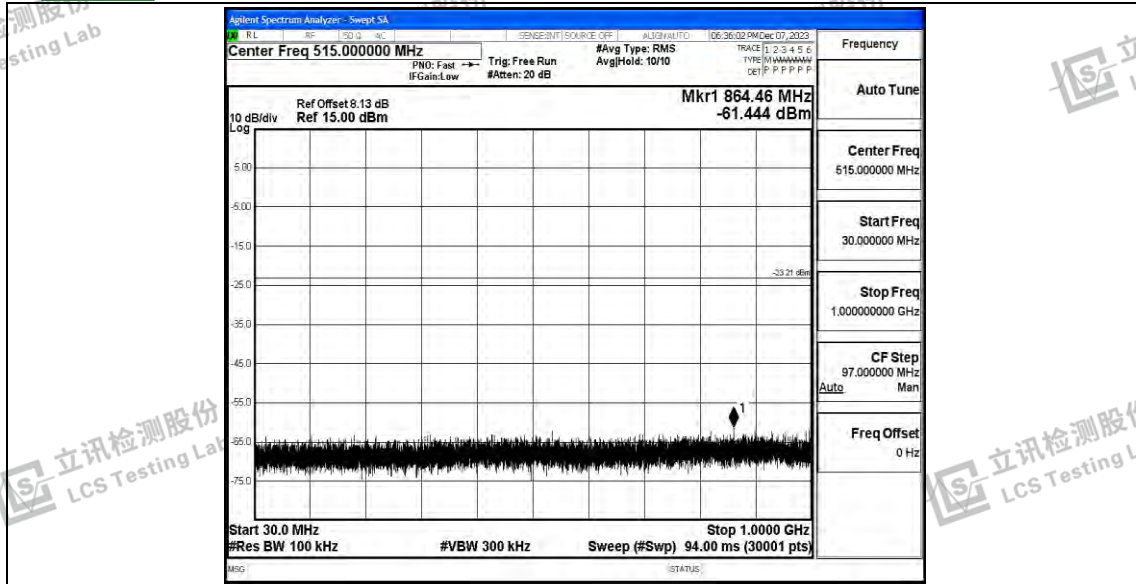


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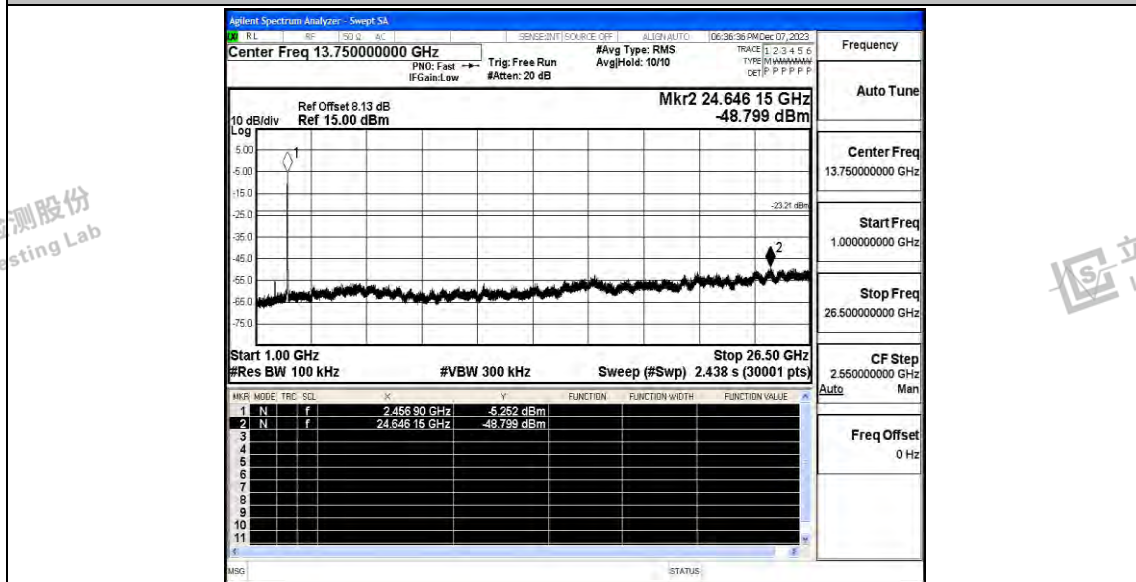
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11G_Ant_2462_1000~26500



11N20SISO_Ant_2412_30~1000

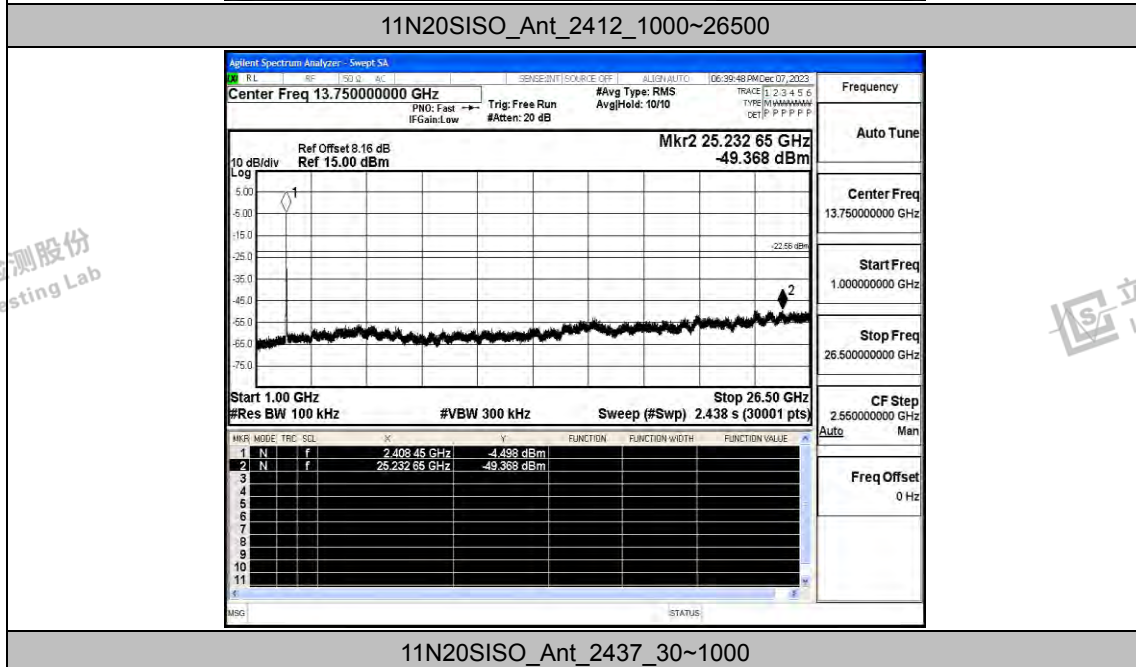
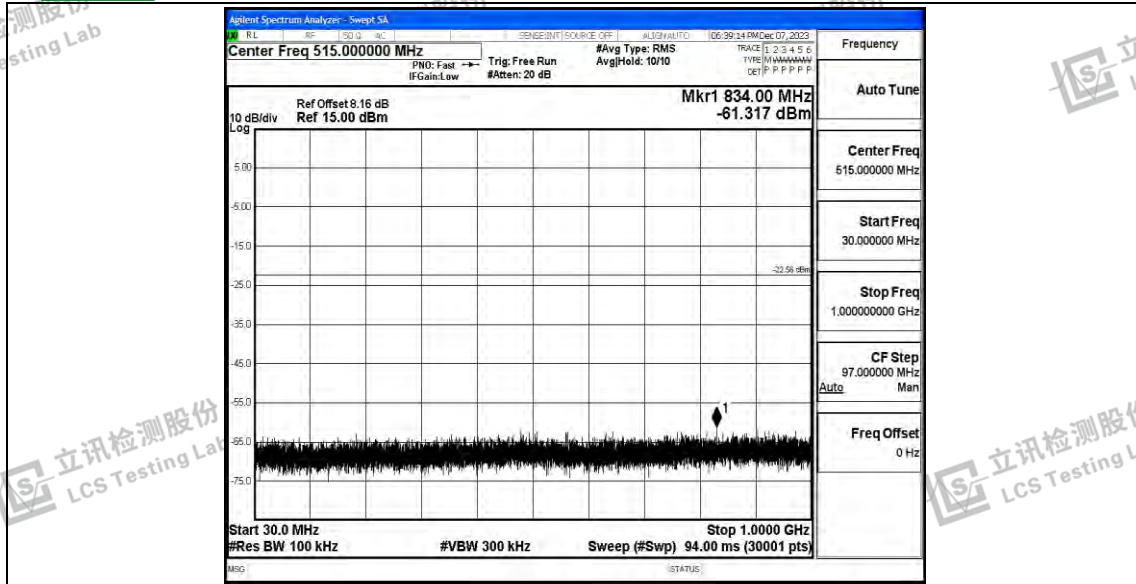


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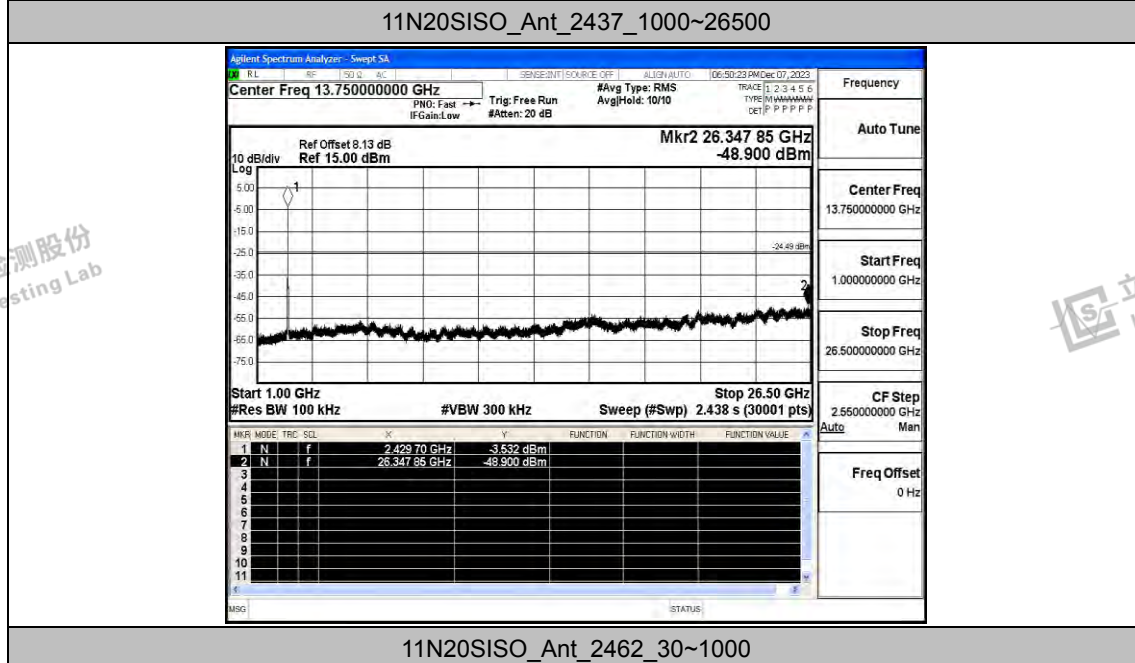
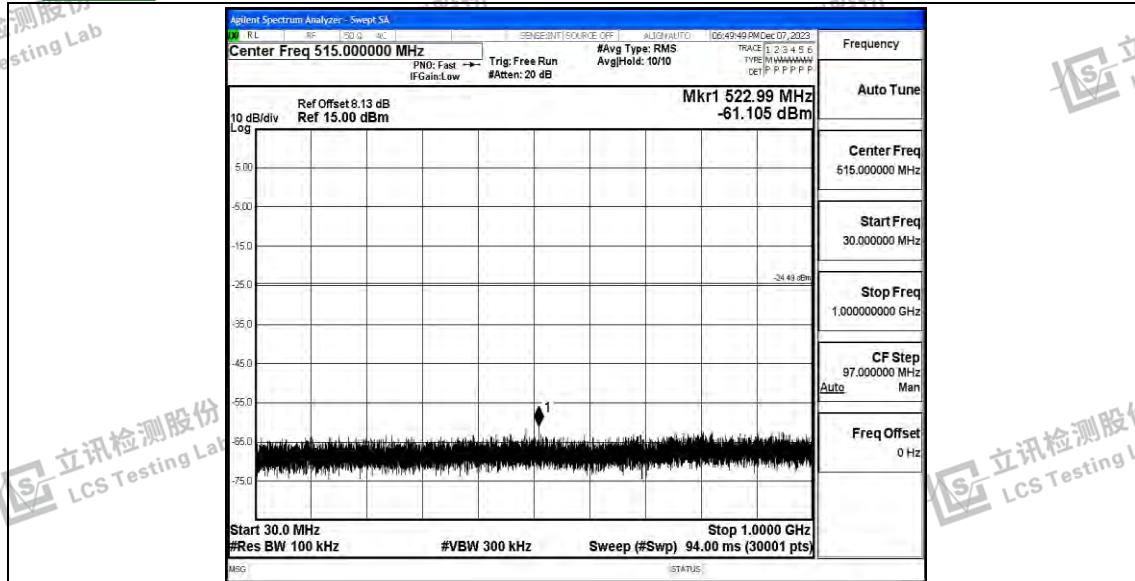


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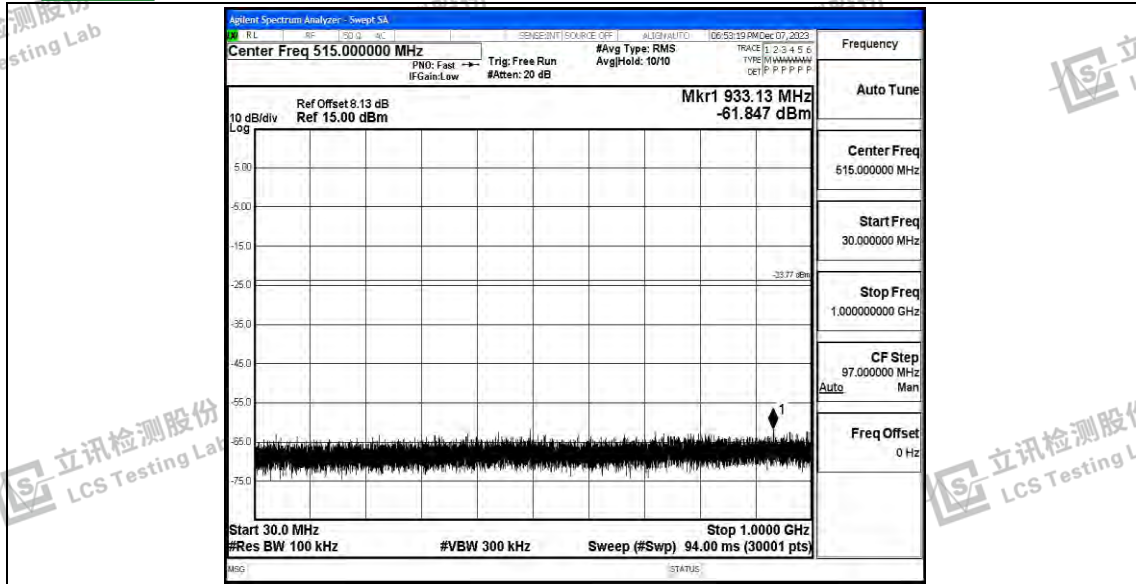


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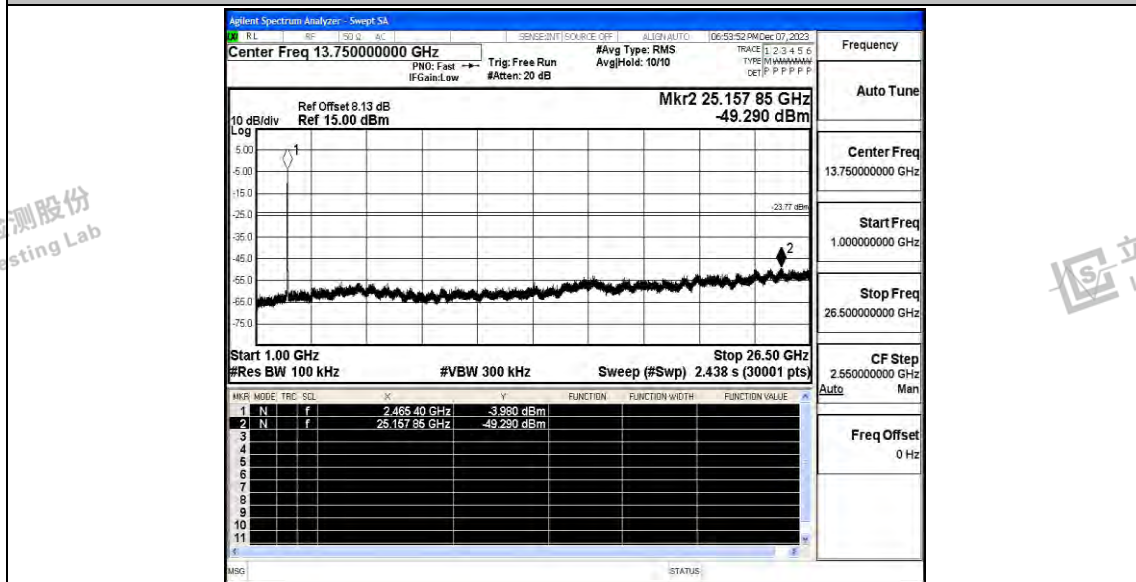
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11N20SISO_Ant_2462_1000~26500



11N40SISO_Ant_2422_30~1000

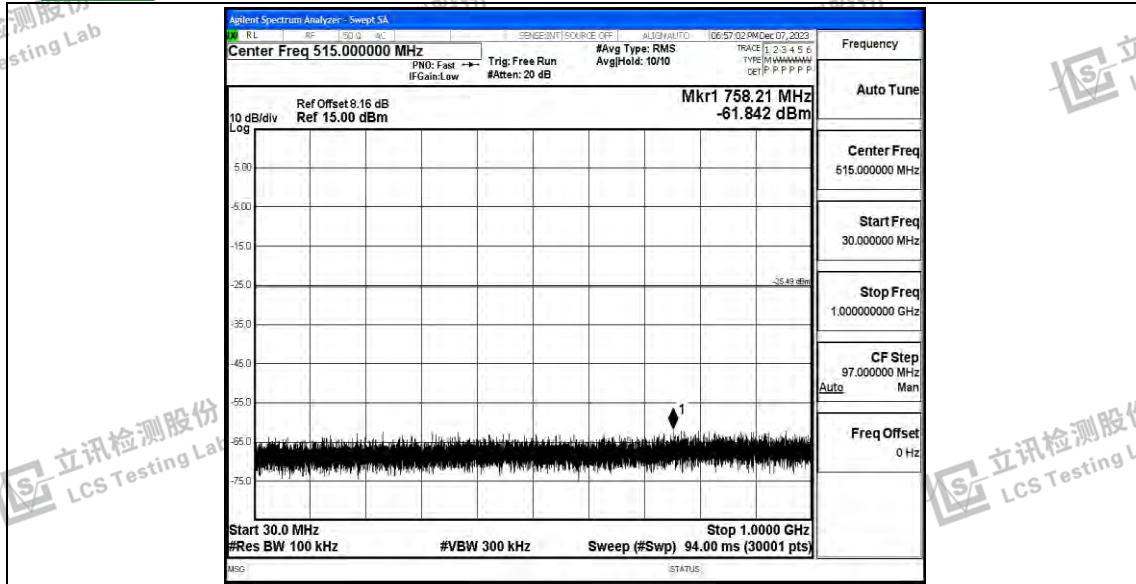


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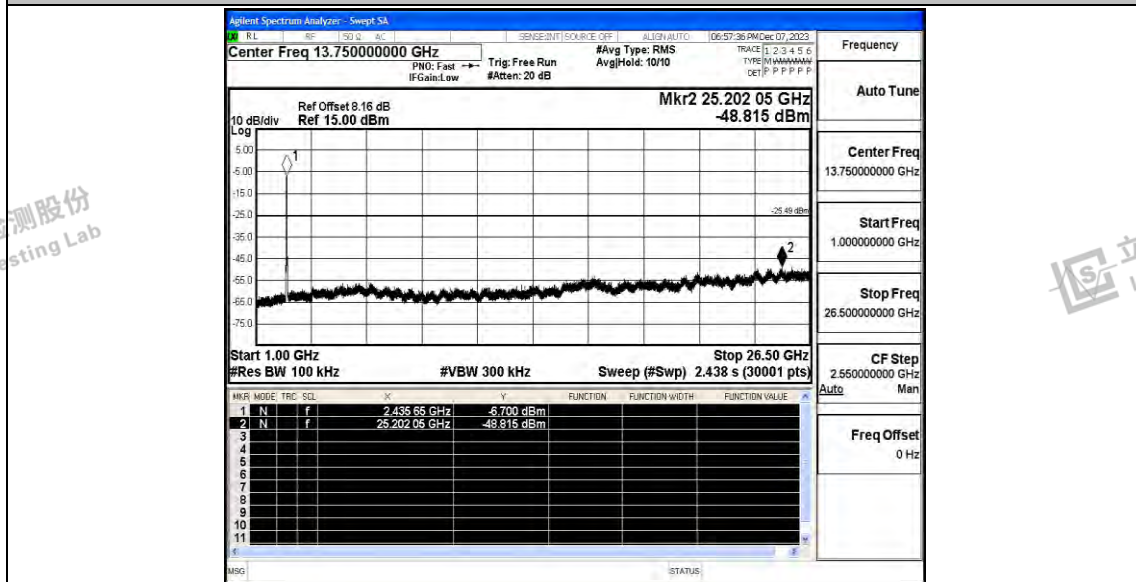
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant_2422_1000~26500



11N40SISO_Ant_2437_30~1000

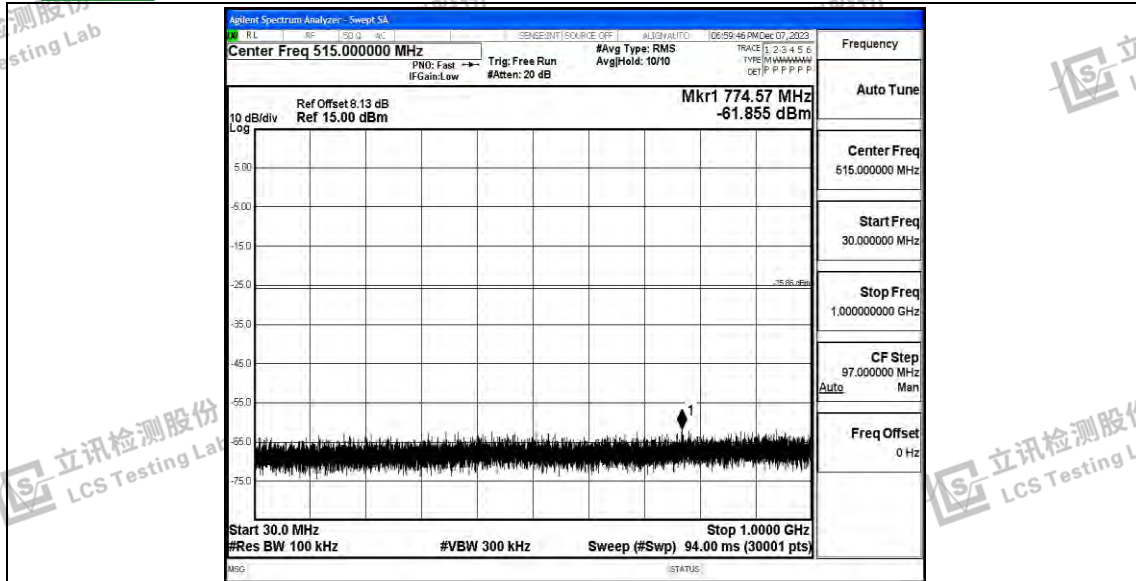


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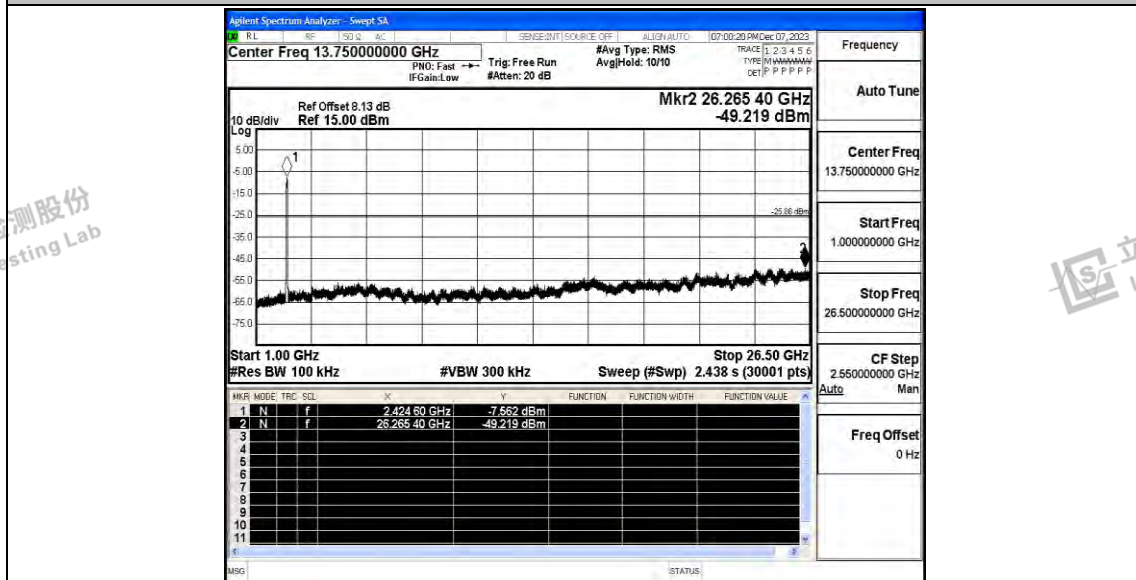
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11N40SISO_Ant_2437_1000~26500



11N40SISO_Ant_2452_30~1000

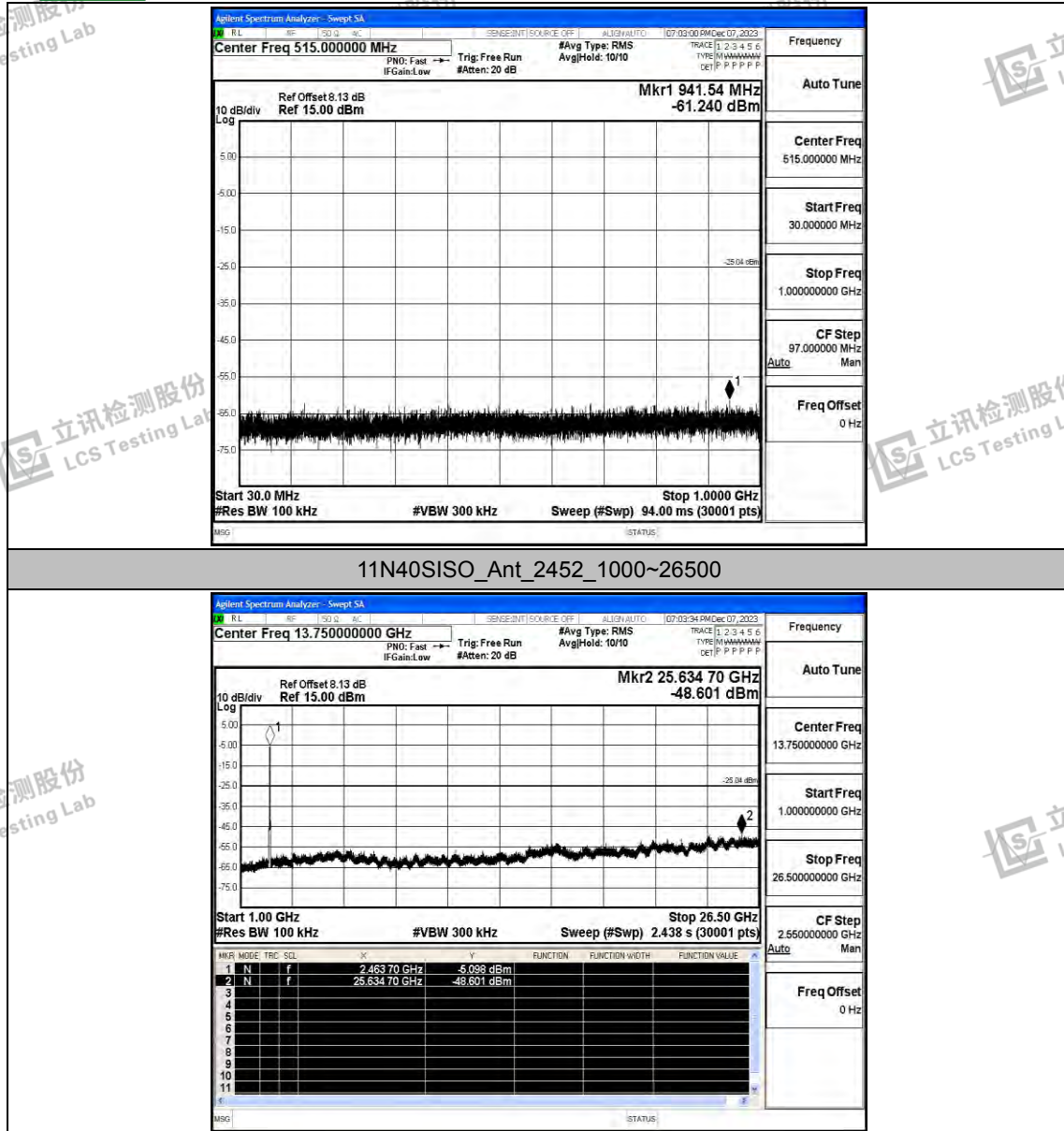


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Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant	2412	2411.52	-0.64
		2437	2436.00	-0.67
		2462	2460.99	-2.47
11G	Ant	2412	2419.48	0.32
		2437	2438.25	-2.26
		2462	2463.23	-3.21
11N20SISO	Ant	2412	2413.25	-2.56
		2437	2430.78	-4.49
		2462	2463.26	-3.77
11N40SISO	Ant	2422	2424.52	-5.49
		2437	2439.50	-5.86
		2452	2454.48	-5.04



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Test Graphs

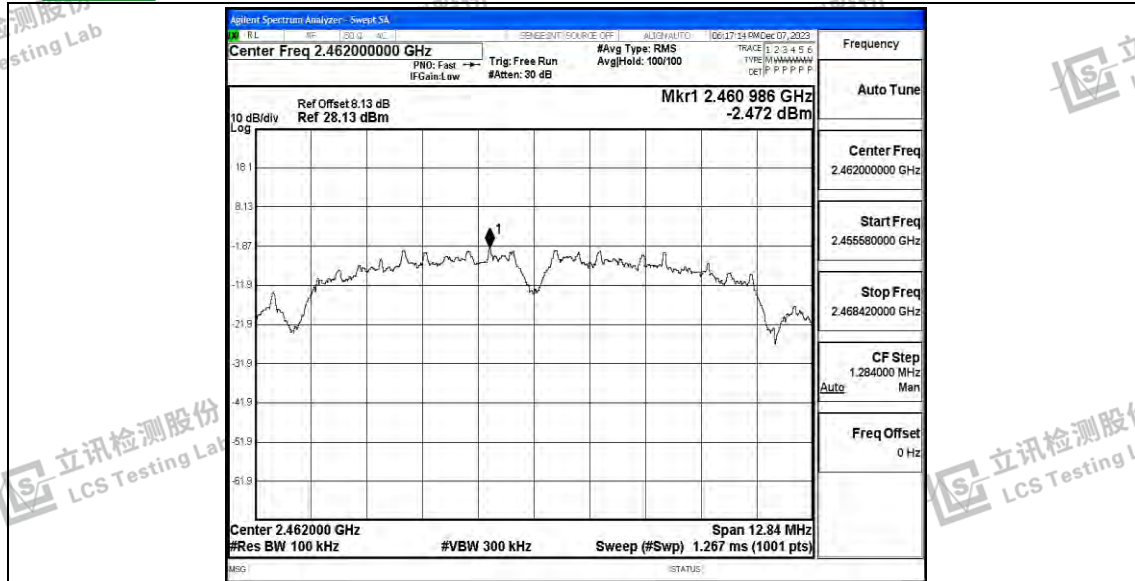


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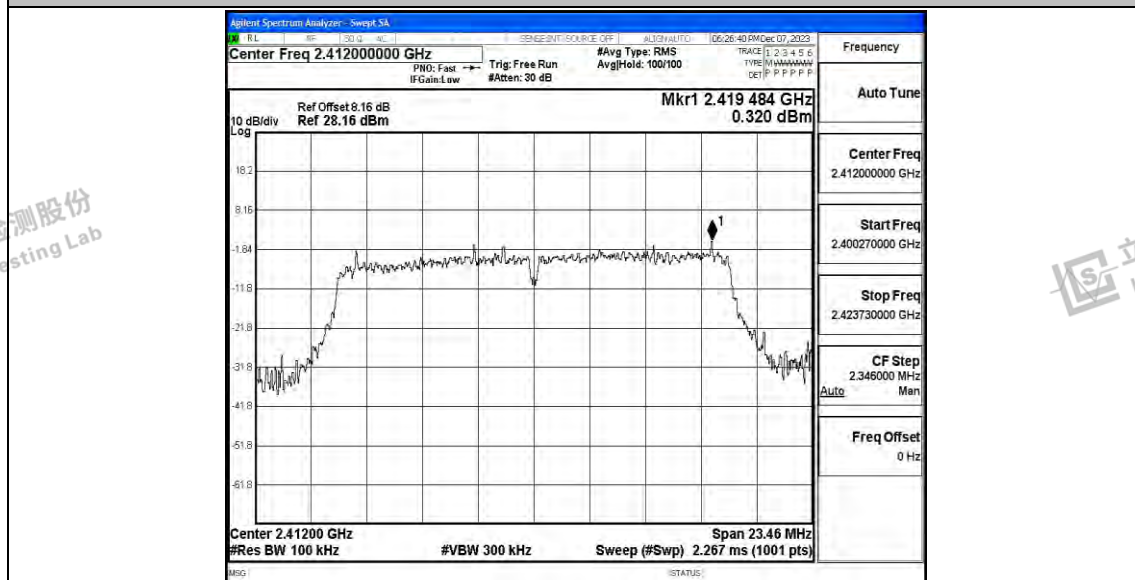
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11G_Ant_2412



11G_Ant_2437

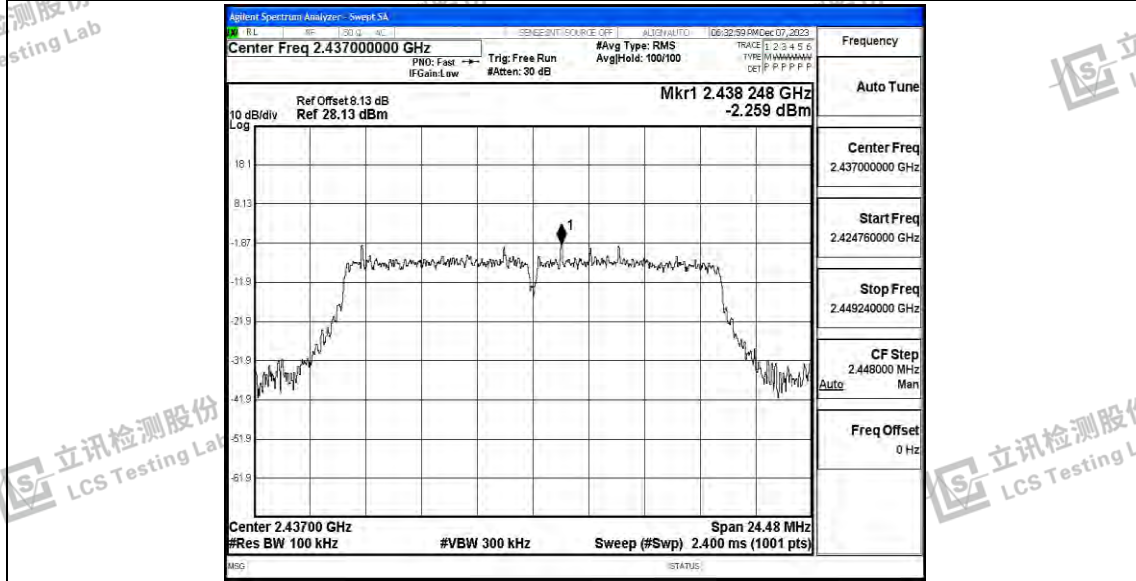


Shenzhen LCS Compliance Testing Laboratory Ltd.

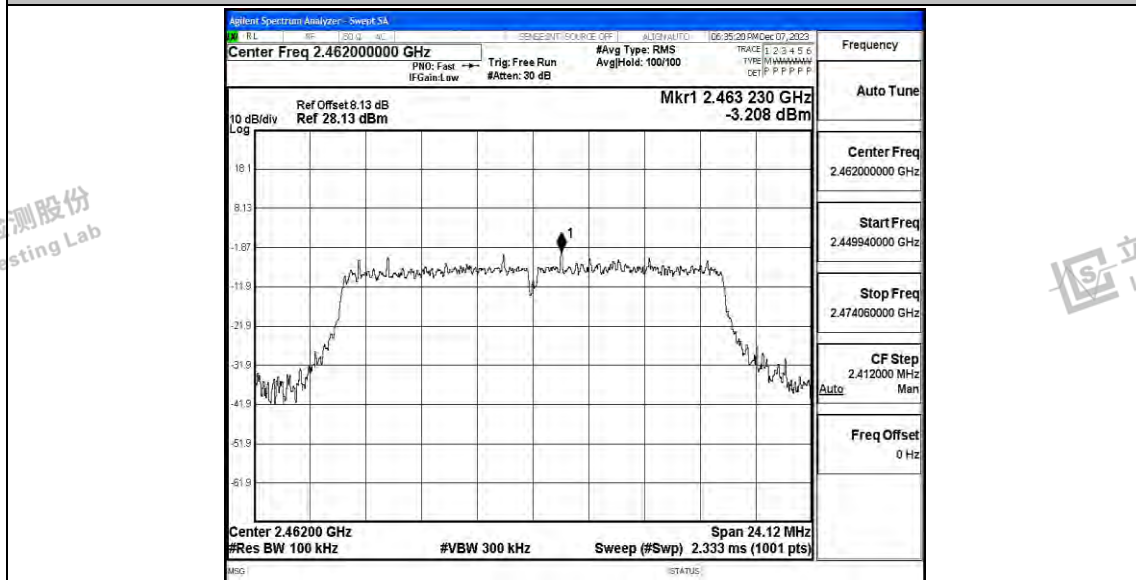
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2462



11N20SISO_Ant_2412

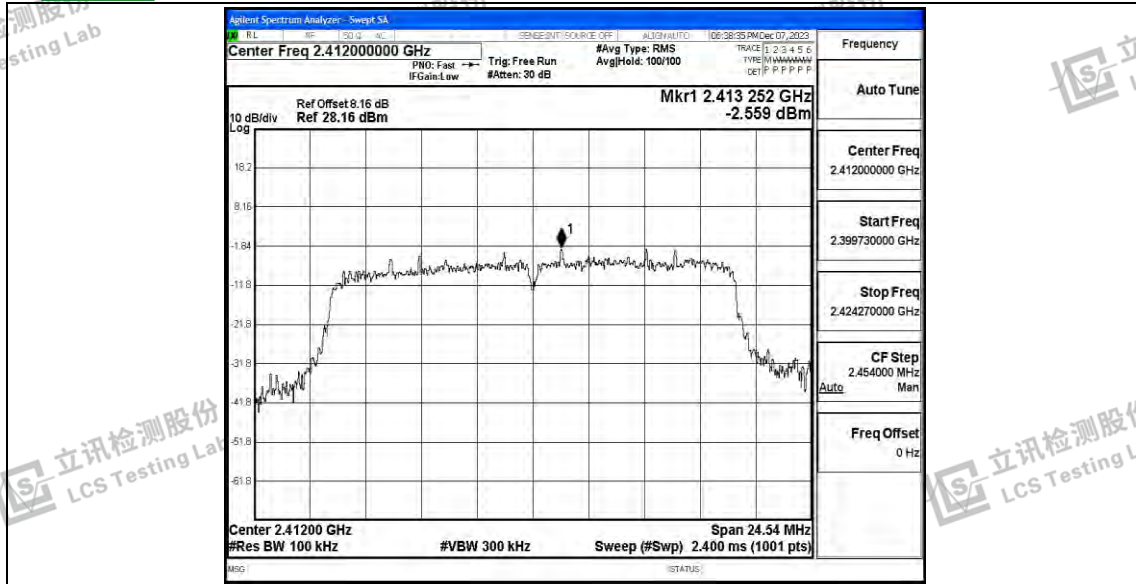


Shenzhen LCS Compliance Testing Laboratory Ltd.

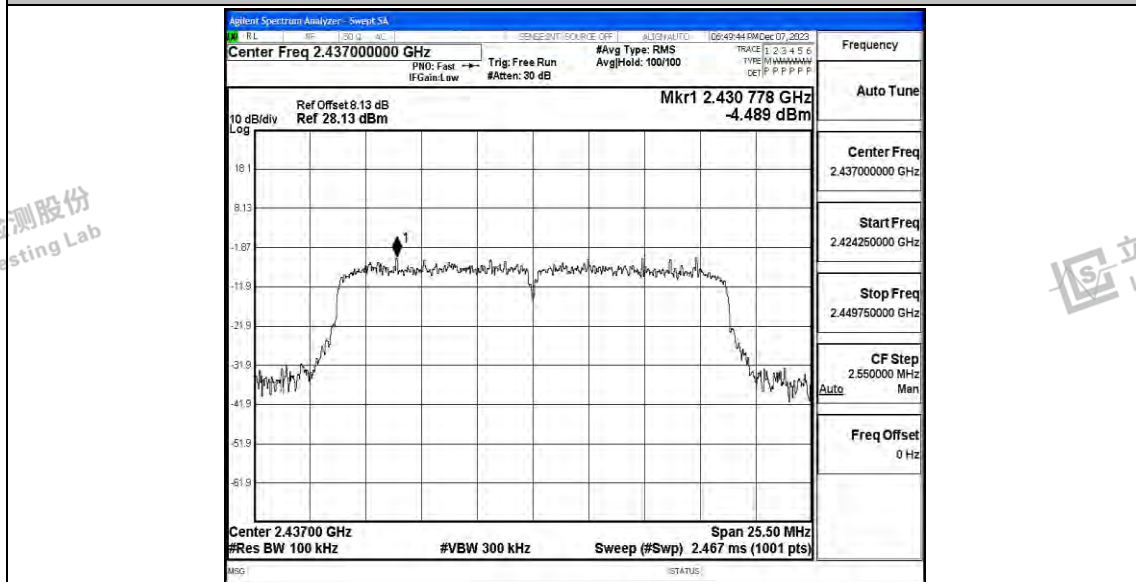
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2437



11N20SISO_Ant_2462

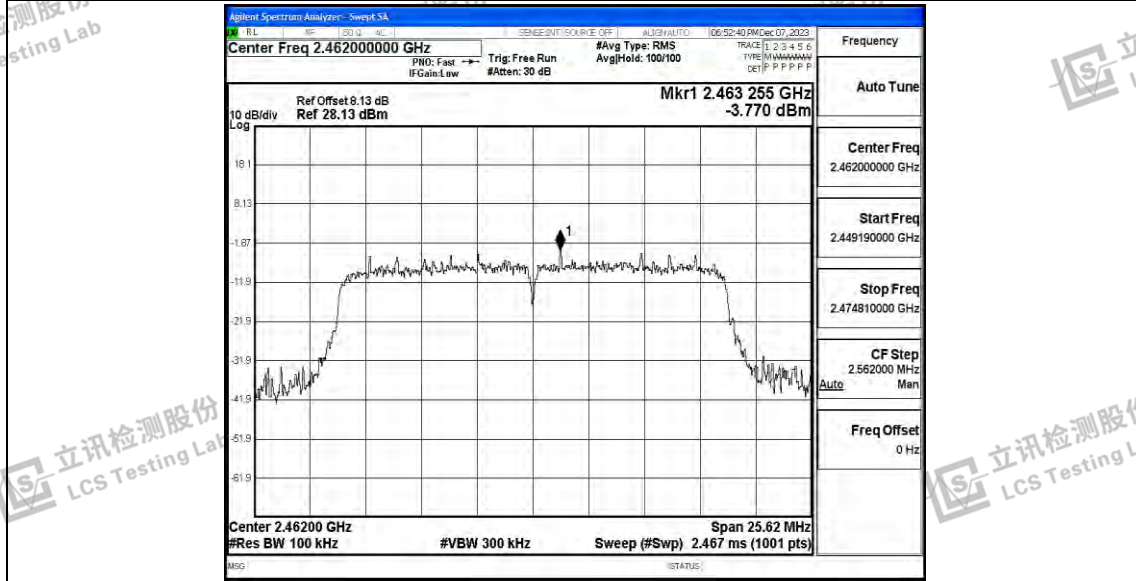


Shenzhen LCS Compliance Testing Laboratory Ltd.

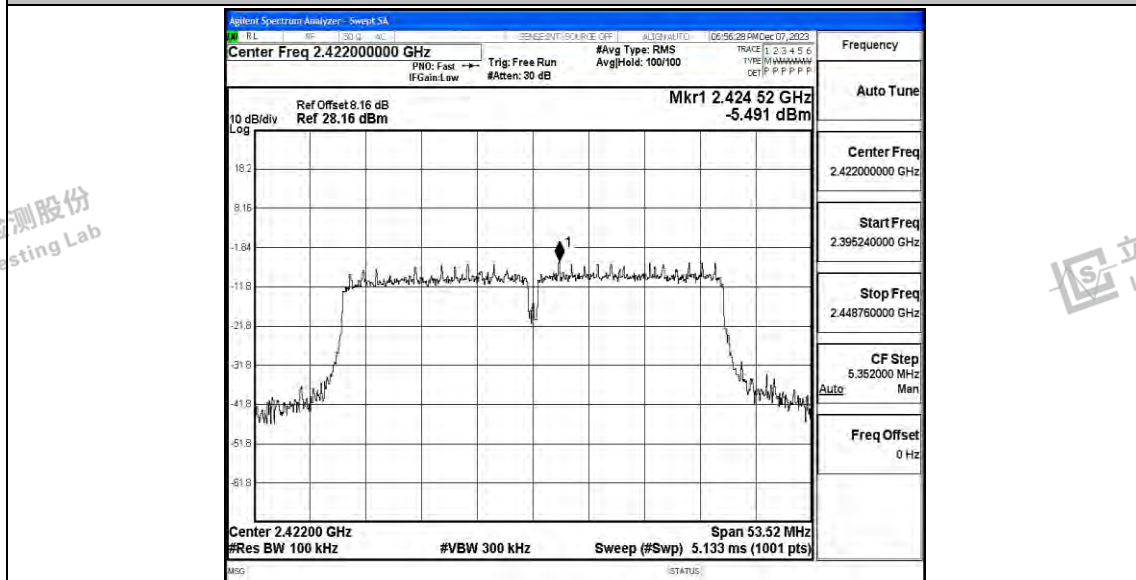
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant_2422



11N40SISO_Ant_2437

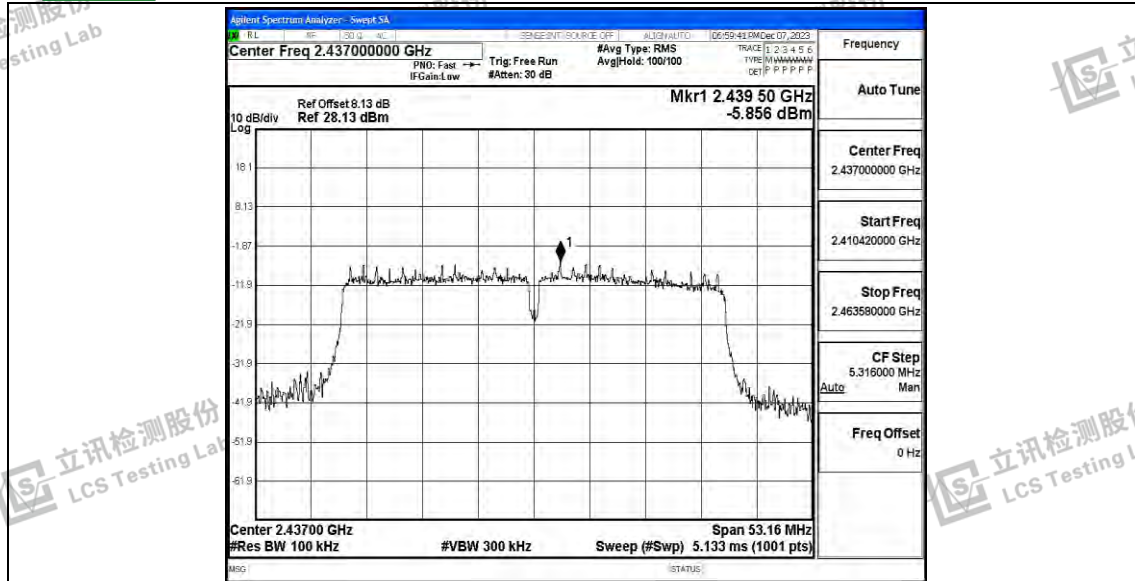


Shenzhen LCS Compliance Testing Laboratory Ltd.

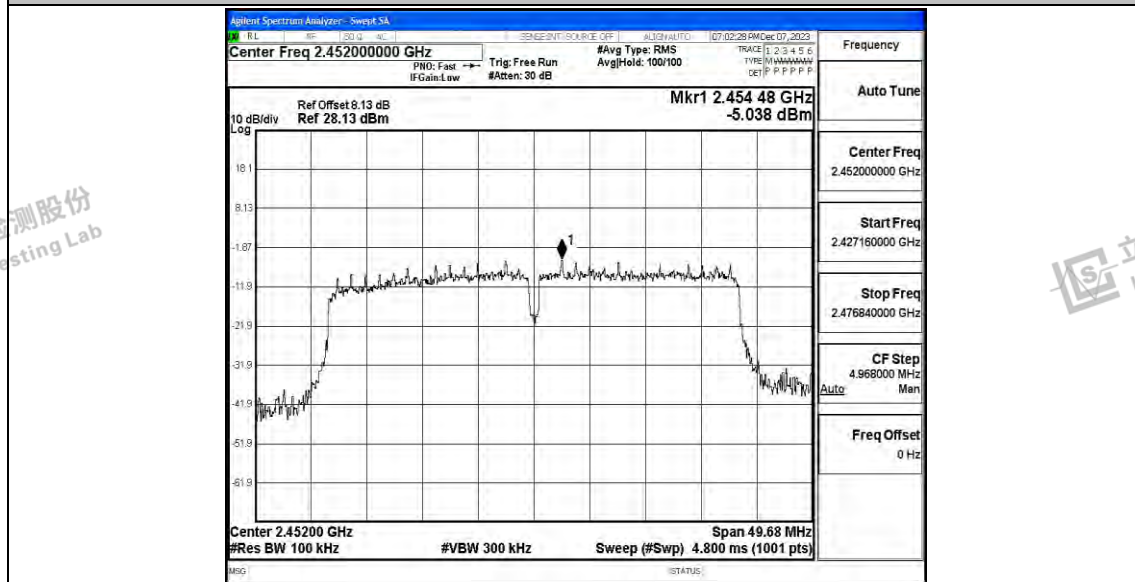
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant_2452



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C.6 Duty Cycle

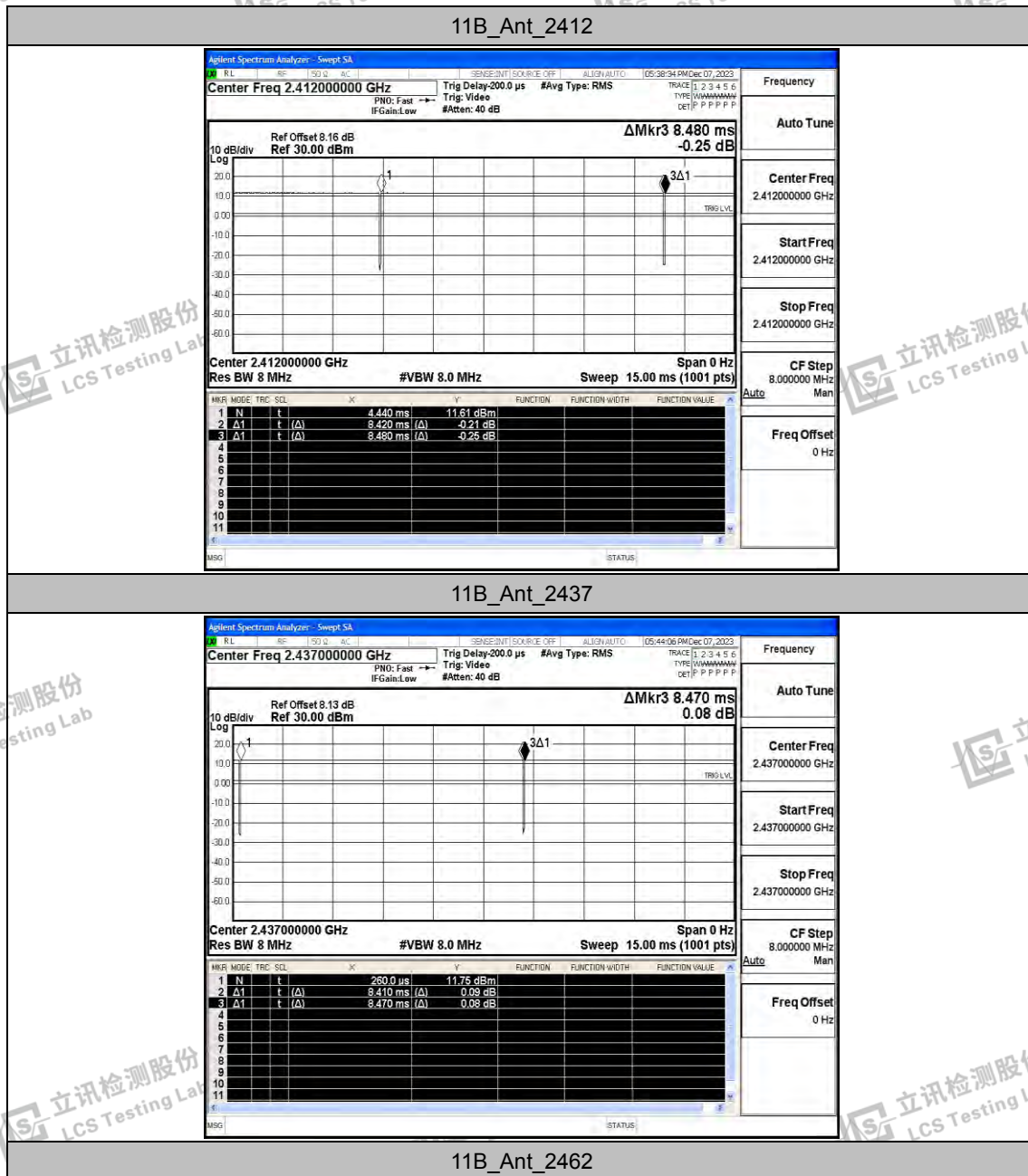
Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T Factor[kHz]
11B	Ant	2412	8.42	8.48	99.29	0.03	0.12
		2437	8.41	8.47	99.29	0.03	0.12
		2462	8.42	8.48	99.29	0.03	0.12
11G	Ant	2412	1.39	1.45	95.86	0.18	0.72
		2437	1.40	1.46	95.89	0.18	0.71
		2462	1.40	1.46	95.89	0.18	0.71
11N20SISO	Ant	2412	1.18	1.25	94.40	0.25	0.85
		2437	1.18	1.25	94.40	0.25	0.85
		2462	1.18	1.24	95.16	0.22	0.85
11N40SISO	Ant	2422	0.58	0.65	89.23	0.49	1.72
		2437	0.59	0.65	90.77	0.42	1.69
		2452	0.58	0.65	89.23	0.49	1.72





Test Graphs

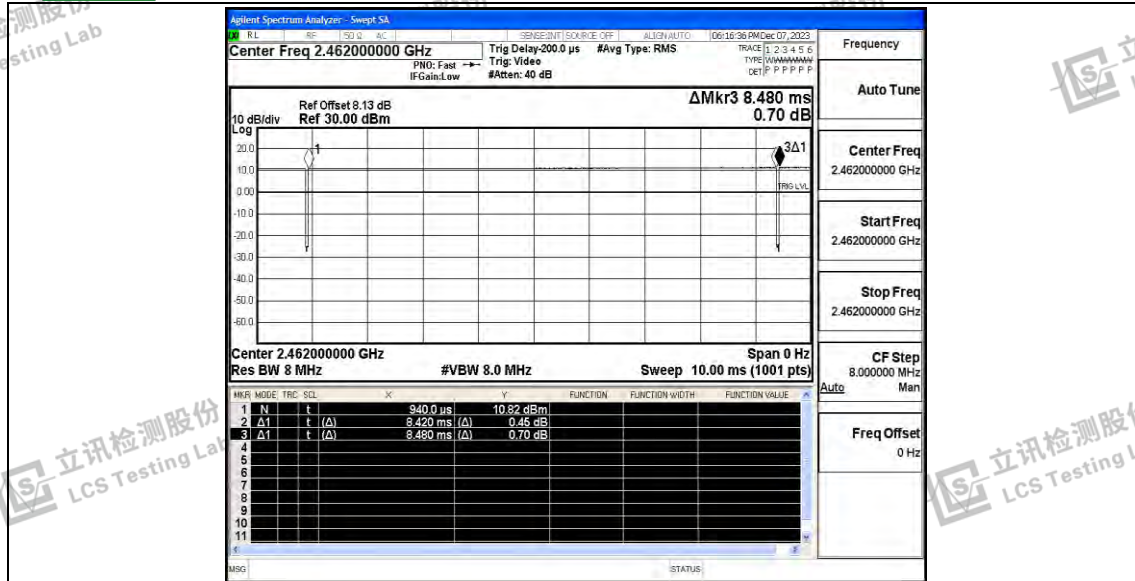


Shenzhen LCS Compliance Testing Laboratory Ltd.

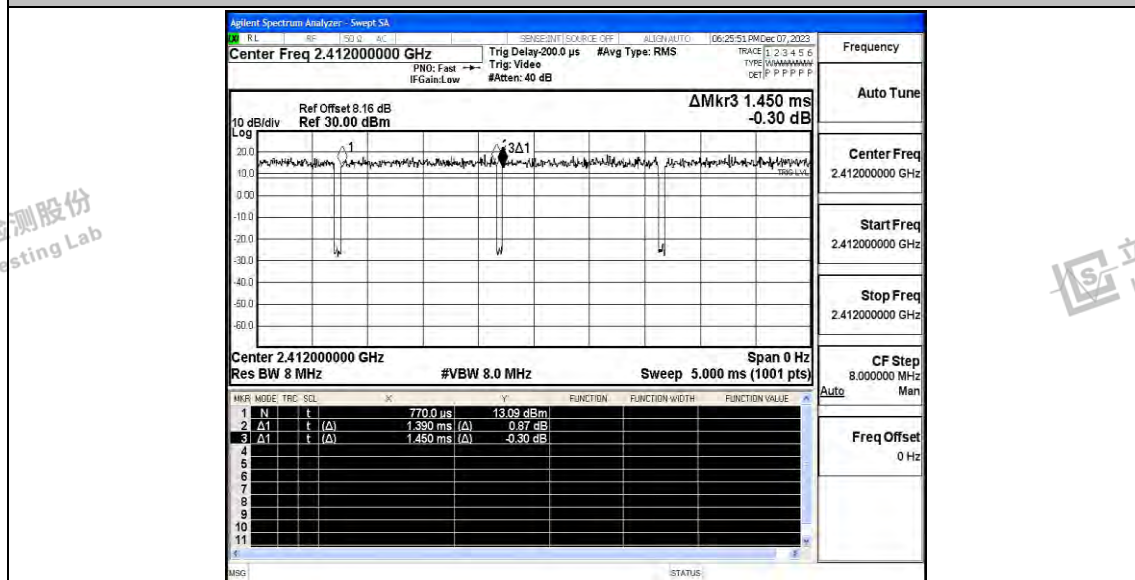
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2412



11G_Ant_2437

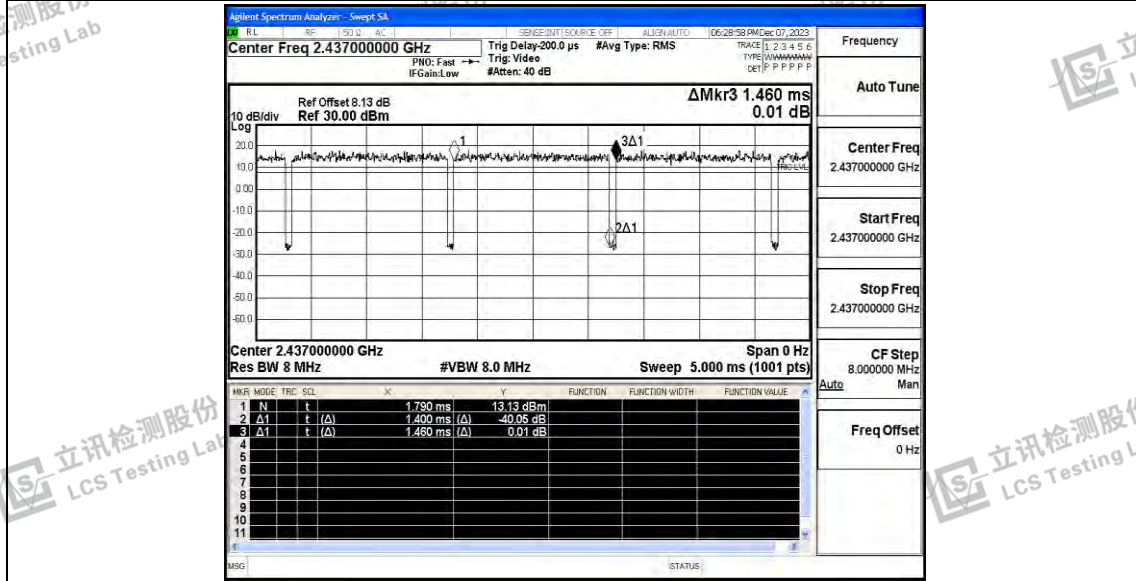


Shenzhen LCS Compliance Testing Laboratory Ltd.

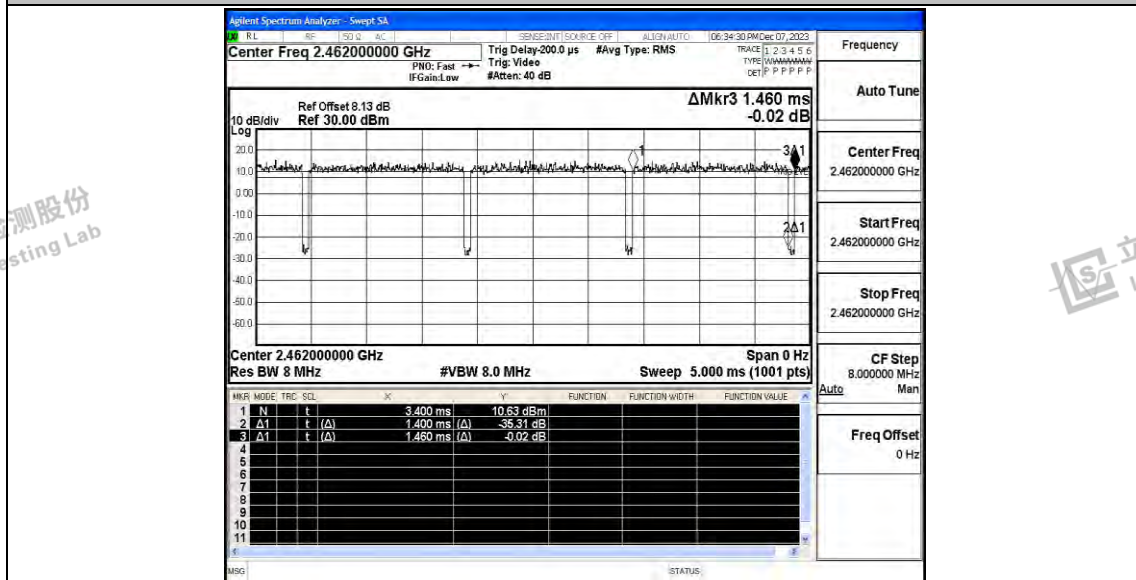
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11G_Ant_2462



11N20SISO_Ant_2412

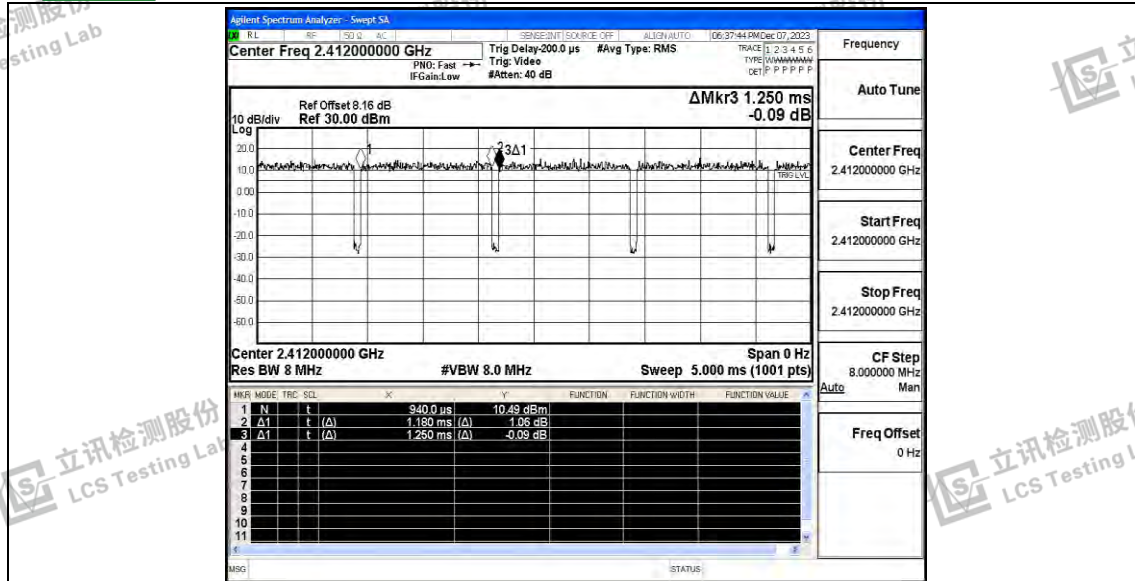


Shenzhen LCS Compliance Testing Laboratory Ltd.

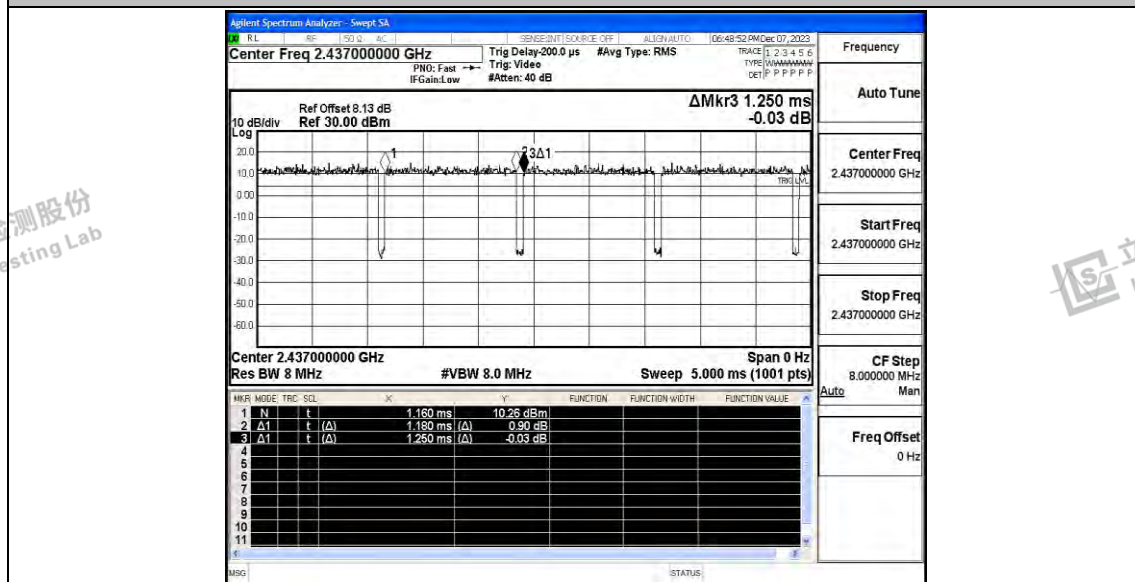
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2437



11N20SISO_Ant_2462

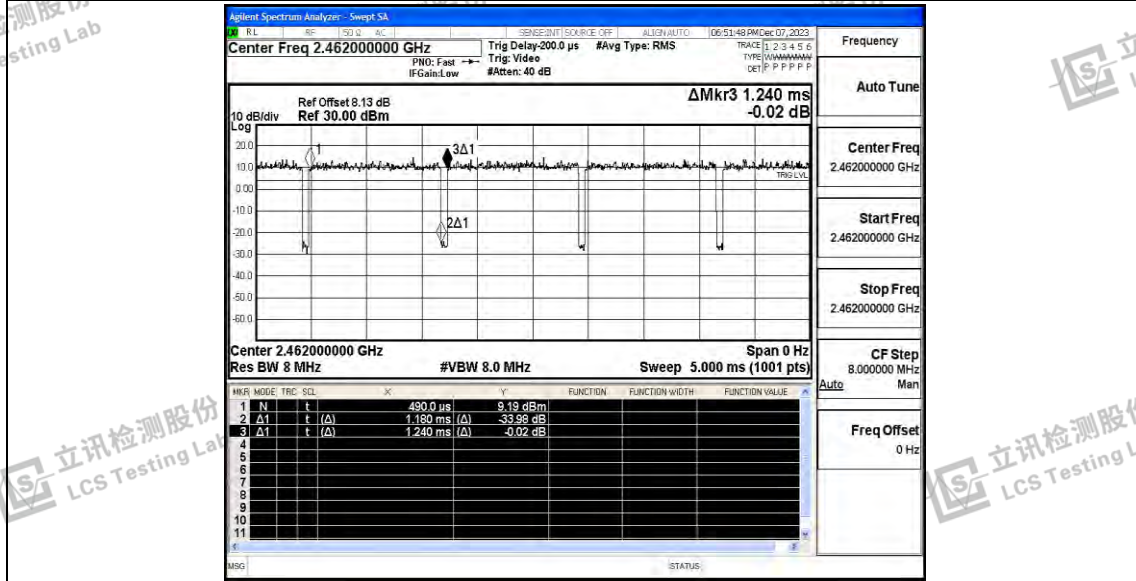


Shenzhen LCS Compliance Testing Laboratory Ltd.

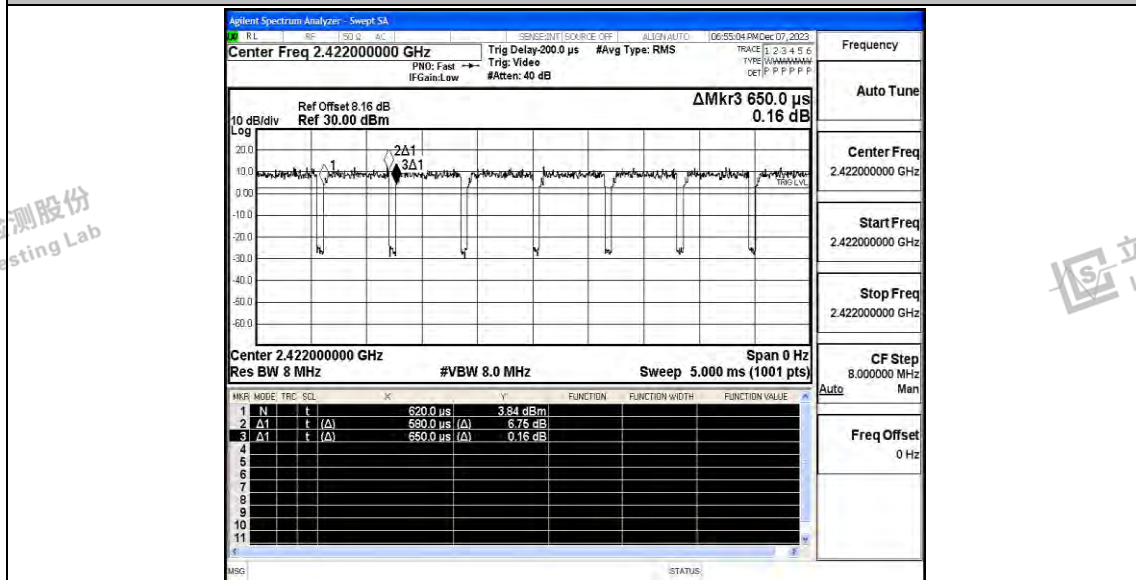
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

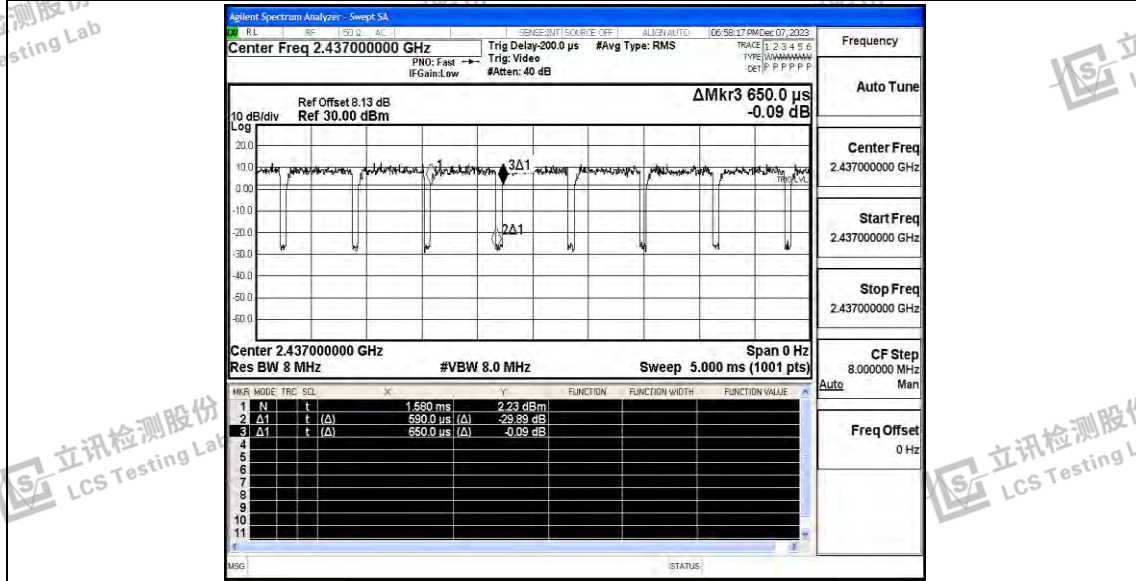


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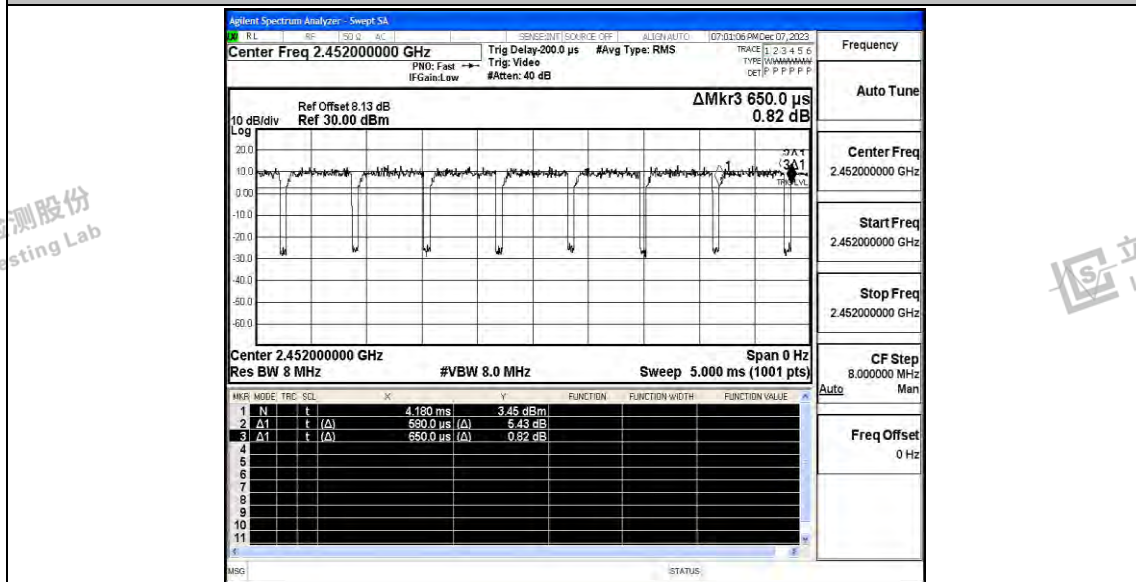
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11N40SISO_Ant_2452



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C.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	Ant	Low	2412	AV	2310.000	-49.51	≤-41.20	45.69	≤54	PASS
				AV	2389.440	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2390.000	-48.95	≤-41.20	46.25	≤54	PASS
				Peak	2310.000	-41.36	≤-21.20	53.84	≤74	PASS
				Peak	2310.660	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2390.000	-44.91	≤-21.20	50.29	≤74	PASS
		High	2462	AV	2483.500	-48.33	≤-41.20	46.87	≤54	PASS
				AV	2484.880	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2500.000	-49.05	≤-41.20	46.15	≤54	PASS
				Peak	2483.500	-42.82	≤-21.20	52.38	≤74	PASS
				Peak	2496.980	-39.29	≤-21.20	55.91	≤74	PASS
				Peak	2500.000	-43.3	≤-21.20	51.90	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2389.960	-46.13	≤-41.20	49.07	≤54	PASS
				AV	2390.000	-46.13	≤-41.20	49.07	≤54	PASS
				Peak	2310.000	-43.3	≤-21.20	51.90	≤74	PASS
				Peak	2388.400	-38.12	≤-21.20	57.08	≤74	PASS
				Peak	2390.000	-40.81	≤-21.20	54.39	≤74	PASS
		High	2462	AV	2483.500	-43.19	≤-41.20	52.01	≤54	PASS
				AV	2483.560	-43.61	≤-41.20	51.59	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-32.25	≤-21.20	62.95	≤74	PASS
				Peak	2484.220	-32.69	≤-21.20	62.51	≤74	PASS
				Peak	2500.000	-42.28	≤-21.20	52.92	≤74	PASS
11N20SIS O	Ant	Low	2412	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2389.960	-46.56	≤-41.20	48.64	≤54	PASS
				AV	2390.000	-46.57	≤-41.20	48.63	≤54	PASS
				Peak	2310.000	-39.79	≤-21.20	55.41	≤74	PASS
				Peak	2388.790	-37.54	≤-21.20	57.66	≤74	PASS
				Peak	2390.000	-41	≤-21.20	54.20	≤74	PASS
		High	2462	AV	2483.500	-42.26	≤-41.20	52.94	≤54	PASS
				AV	2483.560	-41.55	≤-41.20	53.65	≤54	PASS
				AV	2500.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2483.500	-33.45	≤-21.20	61.75	≤74	PASS
				Peak	2484.110	-29.7	≤-21.20	65.50	≤74	PASS



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11N40SIS O	Ant	Low	2422	Peak	2500.000	-42.29	≤ -21.20	52.91	≤ 74	PASS
				AV	2310.000	-48.73	≤ -41.20	46.47	≤ 54	PASS
				AV	2389.960	-44.26	≤ -41.20	50.94	≤ 54	PASS
				AV	2390.000	-44.26	≤ -41.20	50.94	≤ 54	PASS
				Peak	2310.000	-43.79	≤ -21.20	51.41	≤ 74	PASS
				Peak	2387.880	-34.23	≤ -21.20	60.97	≤ 74	PASS
				Peak	2390.000	-39.28	≤ -21.20	55.92	≤ 74	PASS
		High	2452	AV	2483.500	-45.94	≤ -41.20	49.26	≤ 54	PASS
				AV	2483.560	-45.29	≤ -41.20	49.91	≤ 54	PASS
				AV	2500.000	-48.21	≤ -41.20	46.99	≤ 54	PASS
				Peak	2483.500	-32.83	≤ -21.20	62.37	≤ 74	PASS
				Peak	2483.560	-33.78	≤ -21.20	61.42	≤ 74	PASS
				Peak	2500.000	-43.93	≤ -21.20	51.27	≤ 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

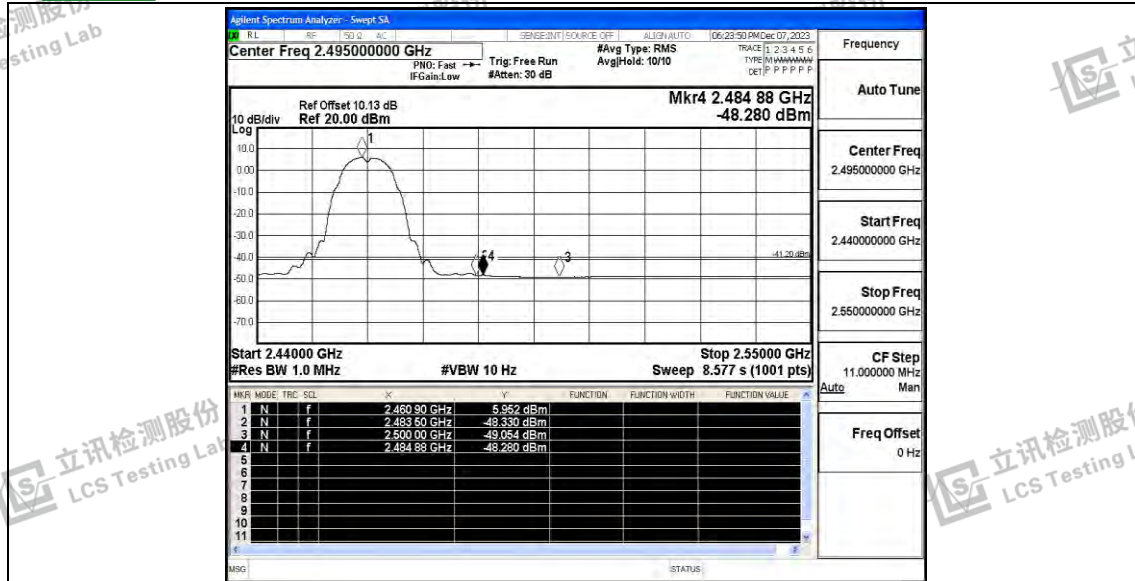


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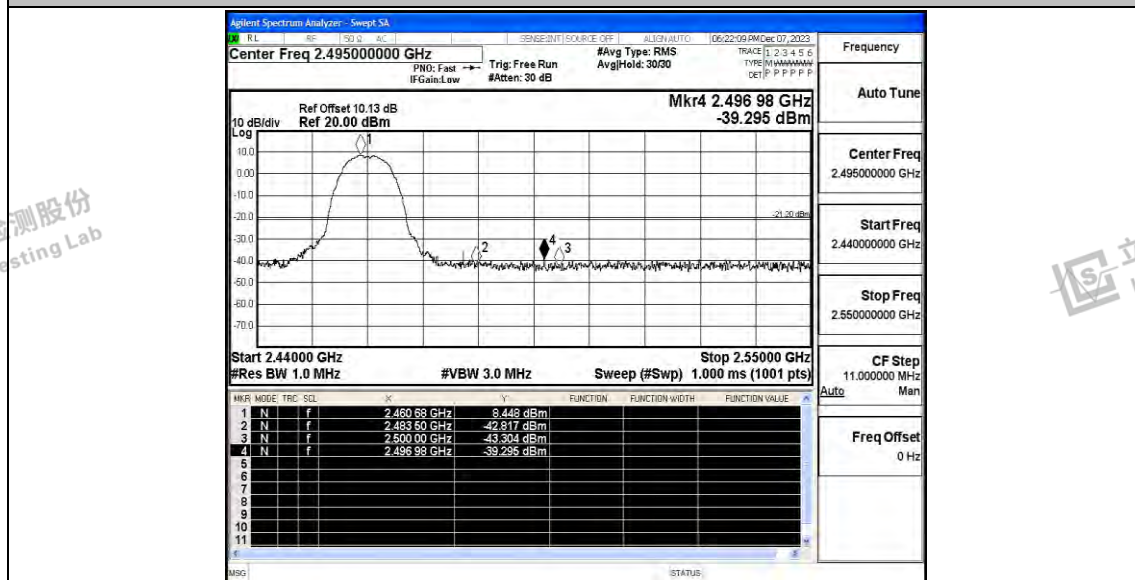
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant_High_2462_Peak



11G_Ant_Low_2412_AV

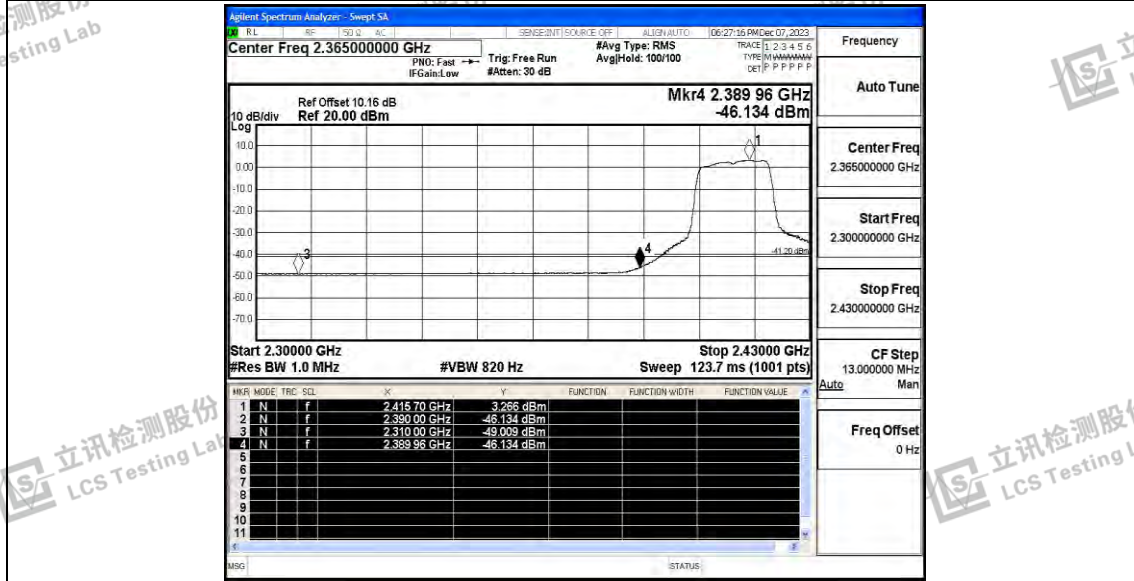


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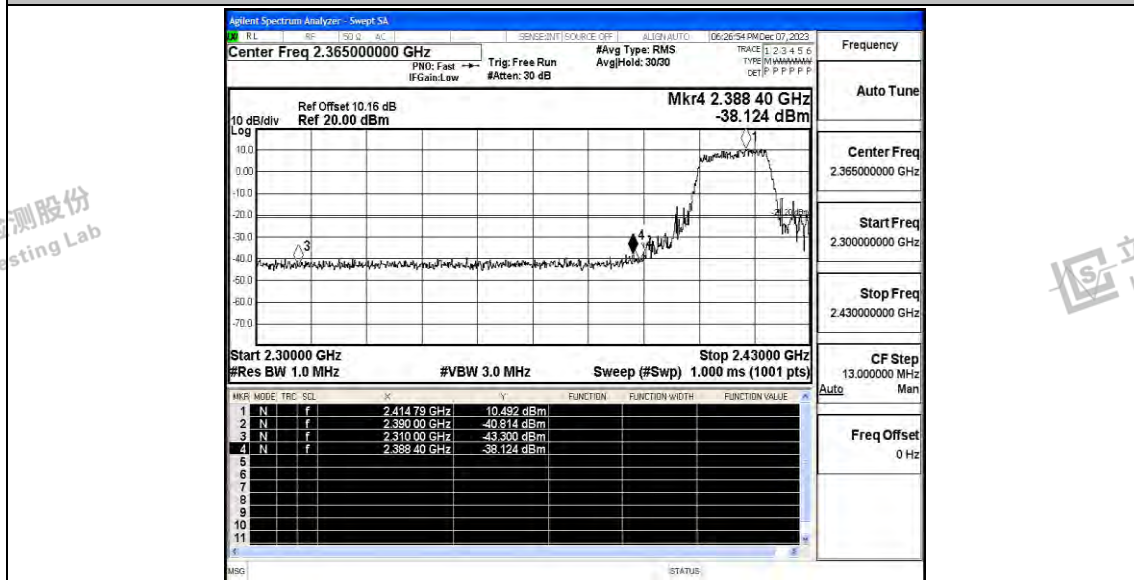
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11G_Ant_Low_2412_Peak



11G_Ant_High_2462_AV

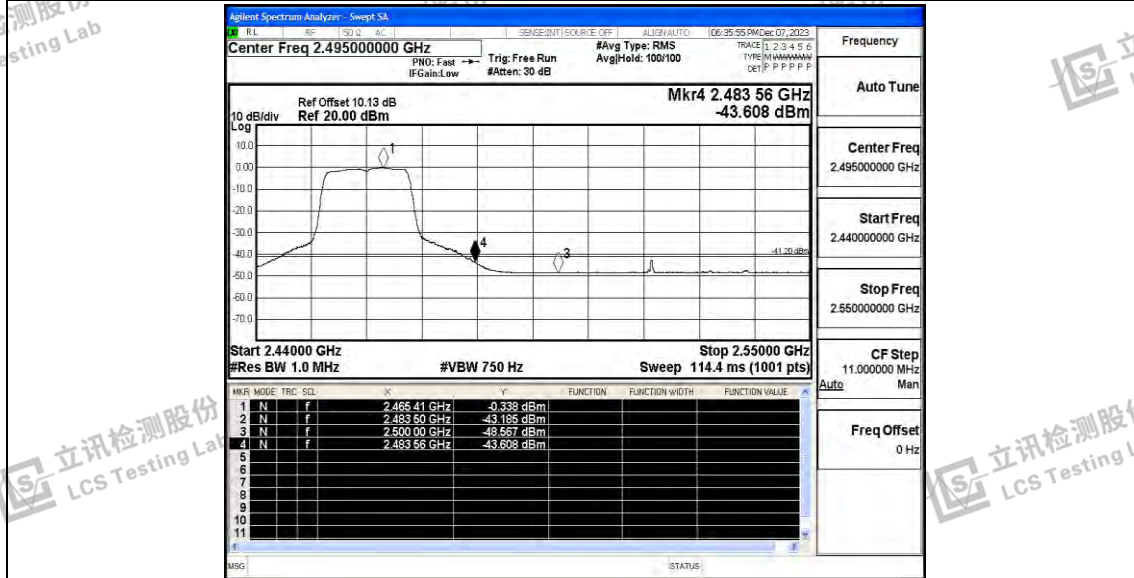


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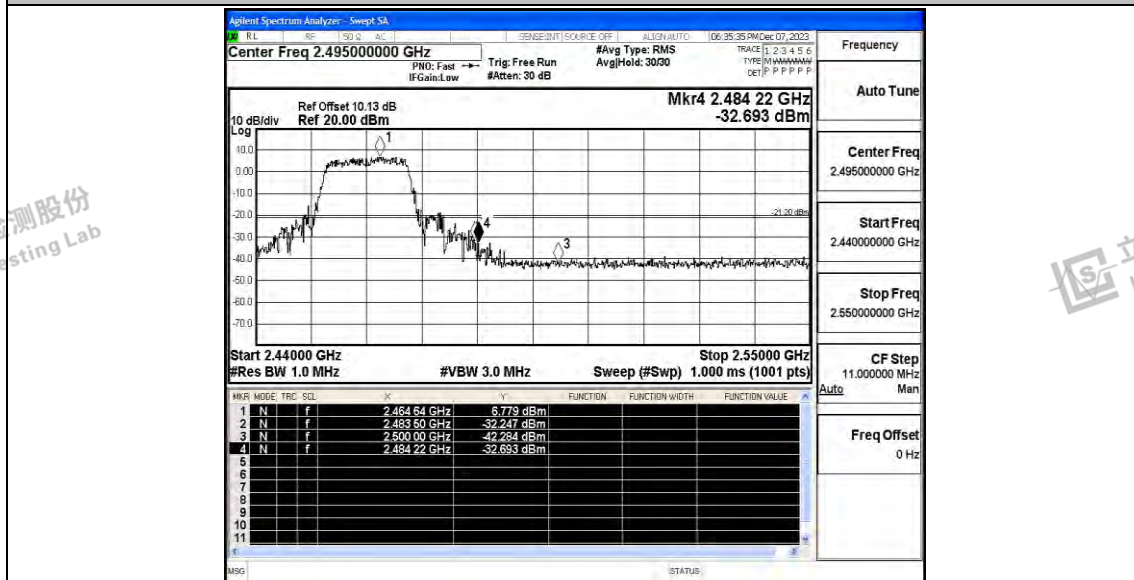
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_High_2462_Peak



11N20SISO_Ant_Low_2412_AV

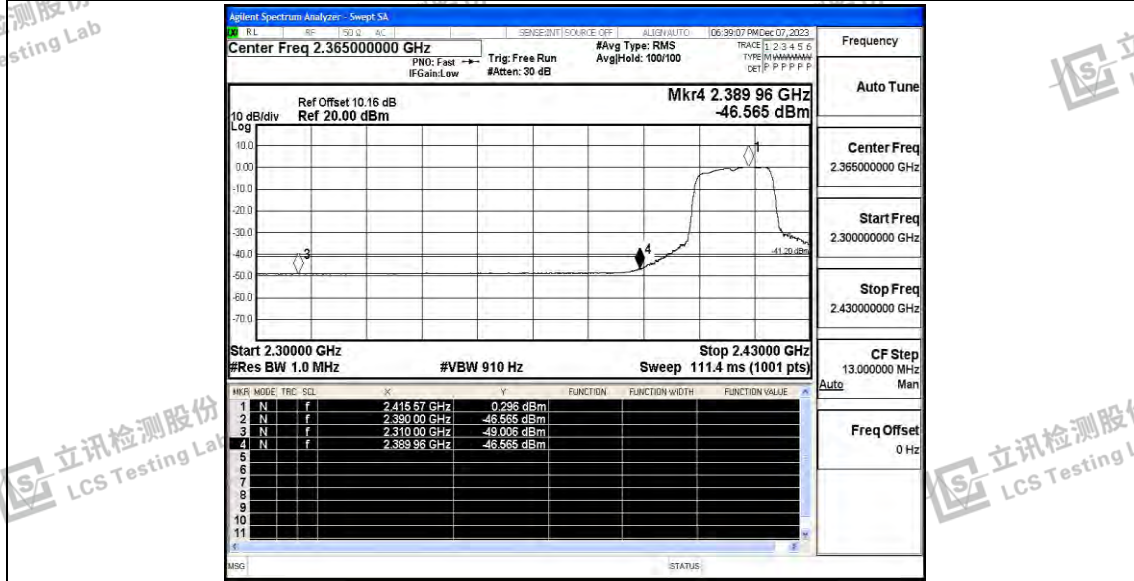


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11N20SISO_Ant_Low_2412_Peak



11N20SISO_Ant_High_2462_AV

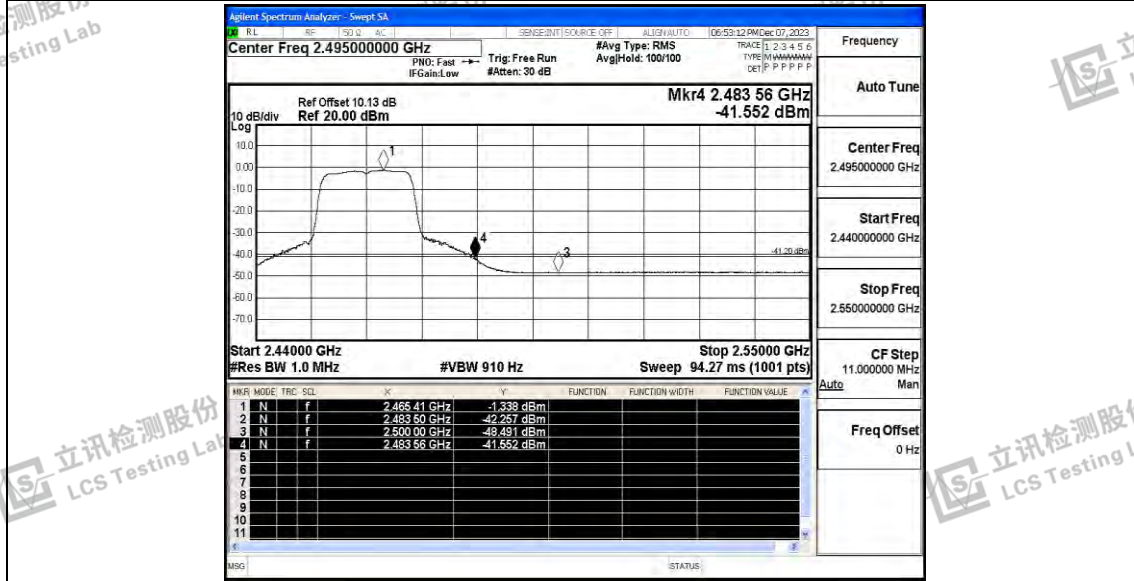


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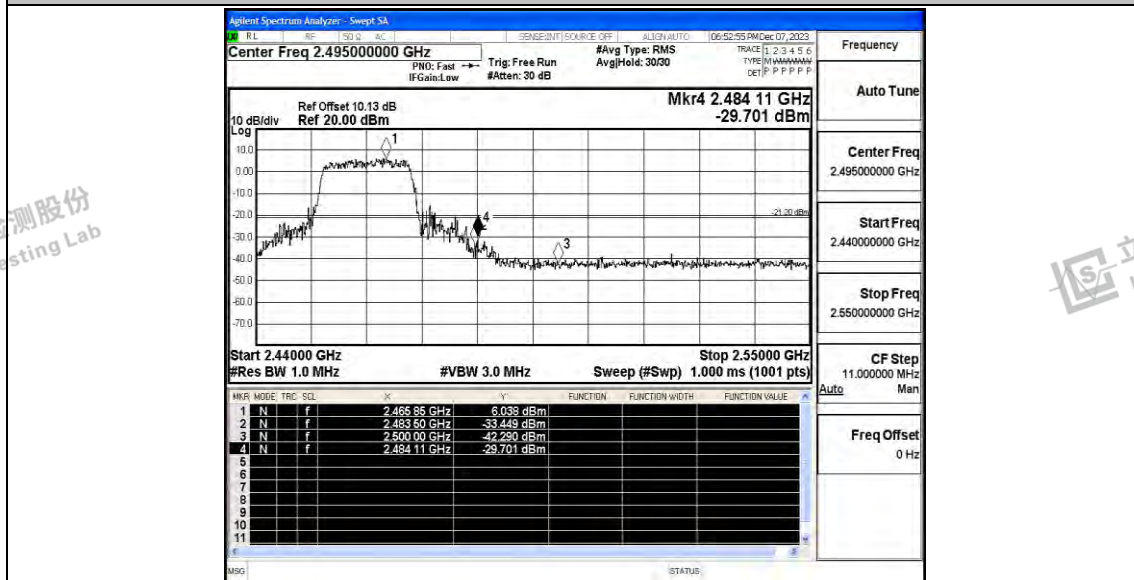
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11N20SISO_Ant_High_2462_Peak



11N40SISO_Ant_Low_2422_AV

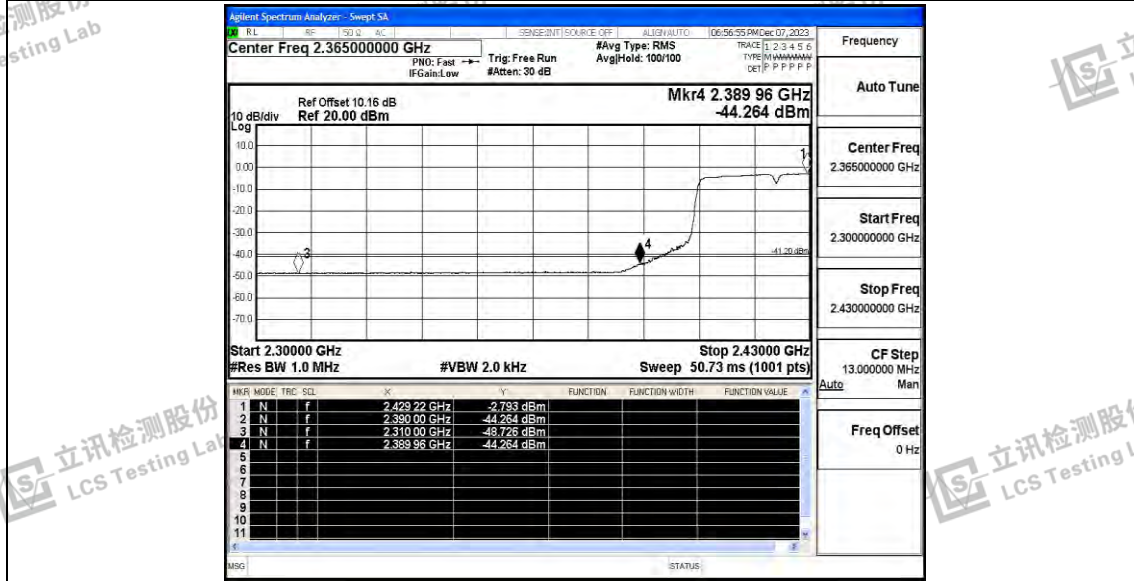


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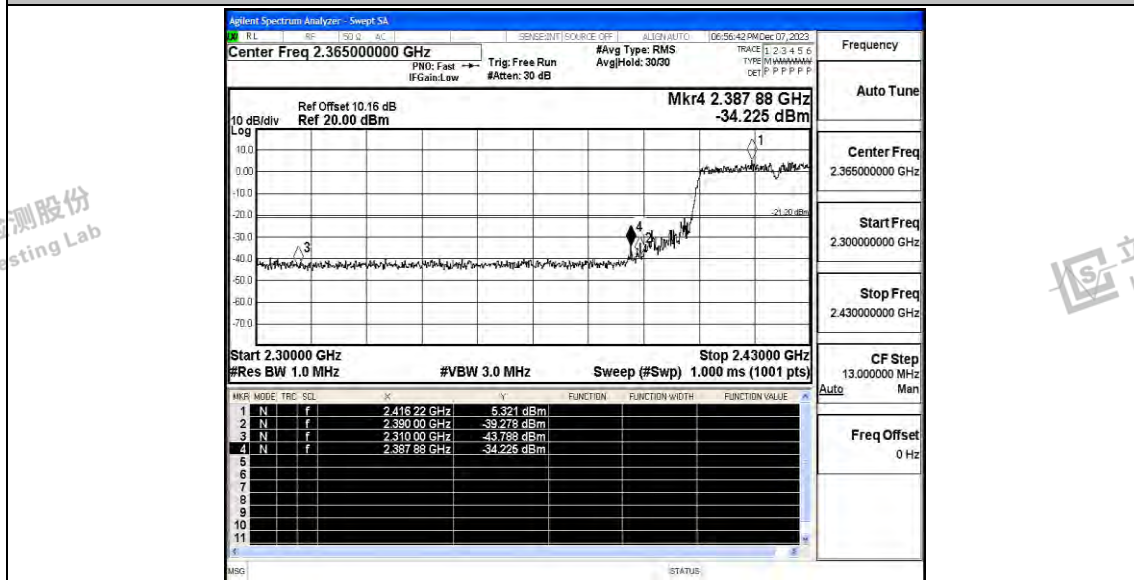
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11N40SISO_Ant_Low_2422_Peak



11N40SISO_Ant_High_2452_AV

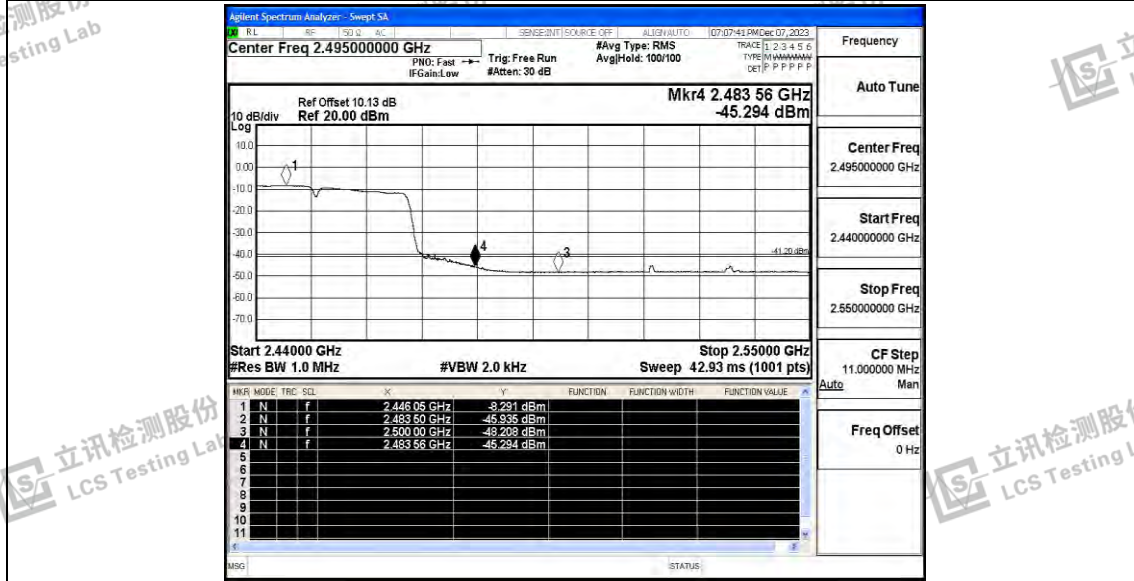


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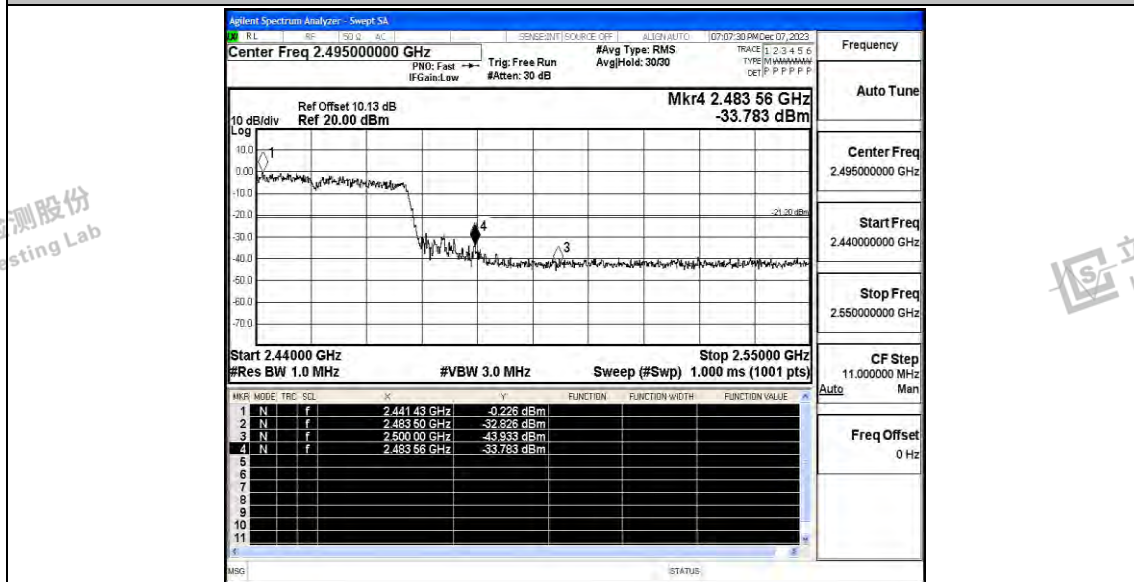
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11N40SISO_Ant_High_2452_Peak



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