



RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LED Controller

Test Model: SP548E

Environmental Conditions

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



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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	15.920	2404.240	2420.160	0.5	PASS
		2437	16.040	2429.080	2445.120	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.480	2420.560	0.5	PASS
		2437	17.240	2428.360	2445.600	0.5	PASS
		2462	16.880	2453.520	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.400	2440.000	0.5	PASS
		2437	35.920	2419.080	2455.000	0.5	PASS
		2452	35.600	2434.000	2469.600	0.5	PASS

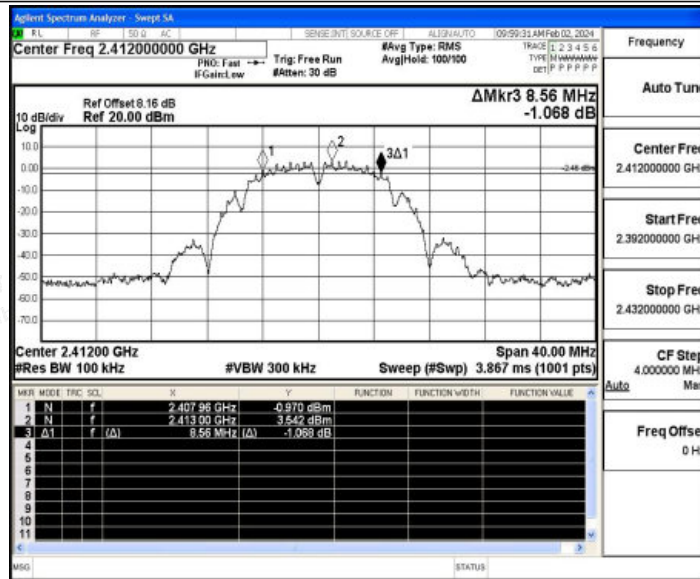


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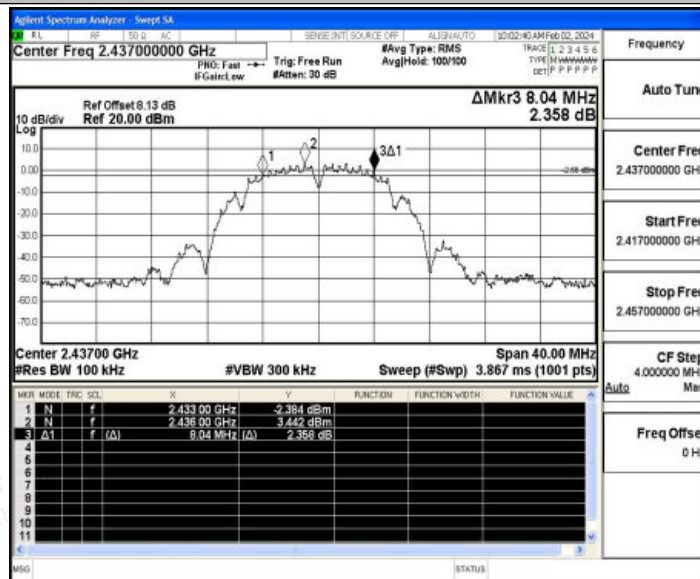


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

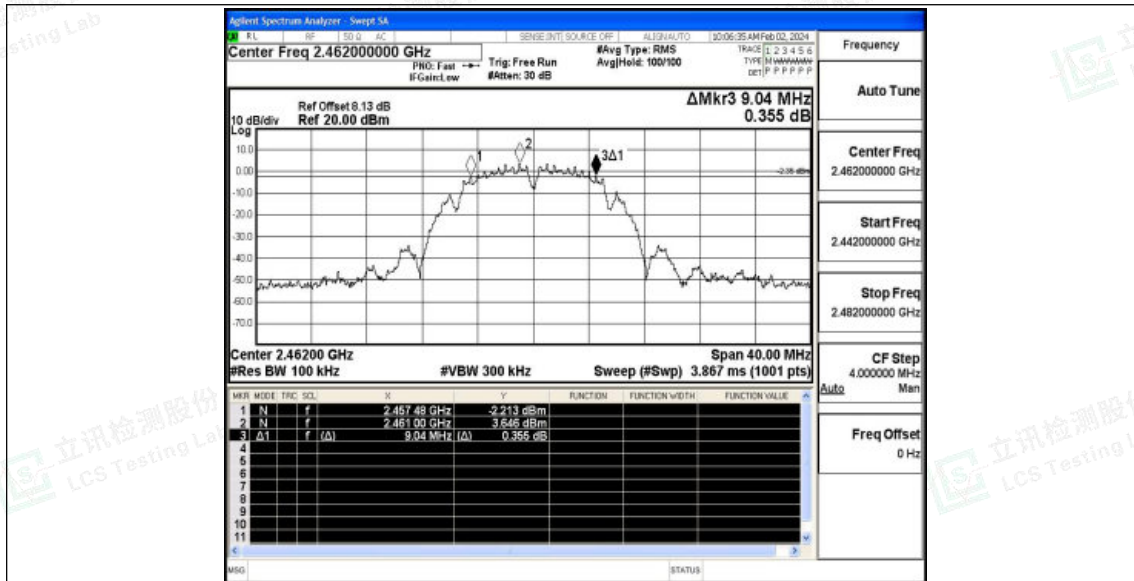


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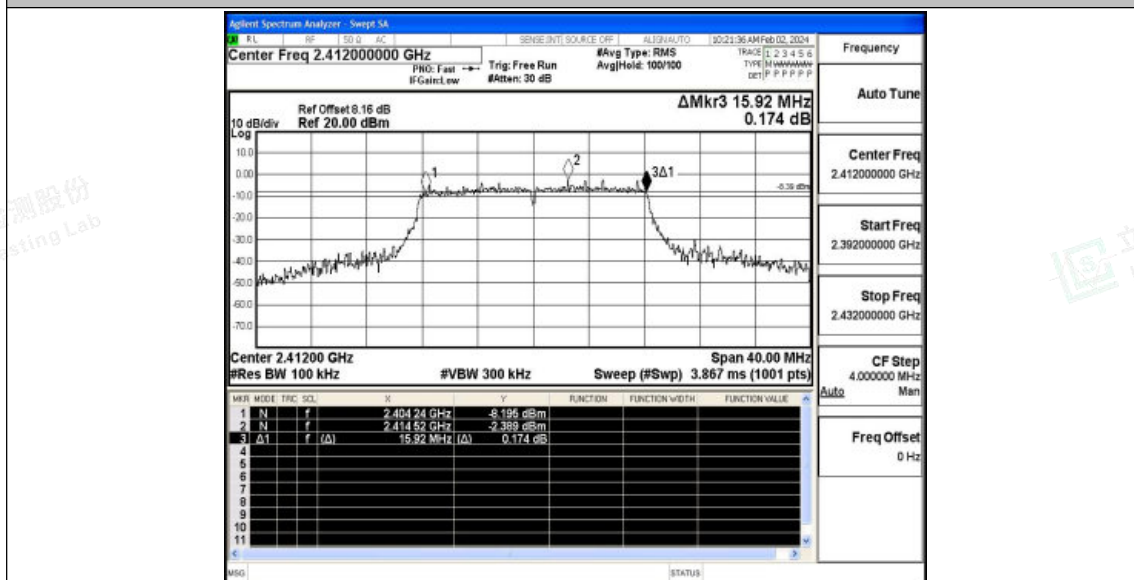
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11G_Ant1_2412



11G_Ant1_2437

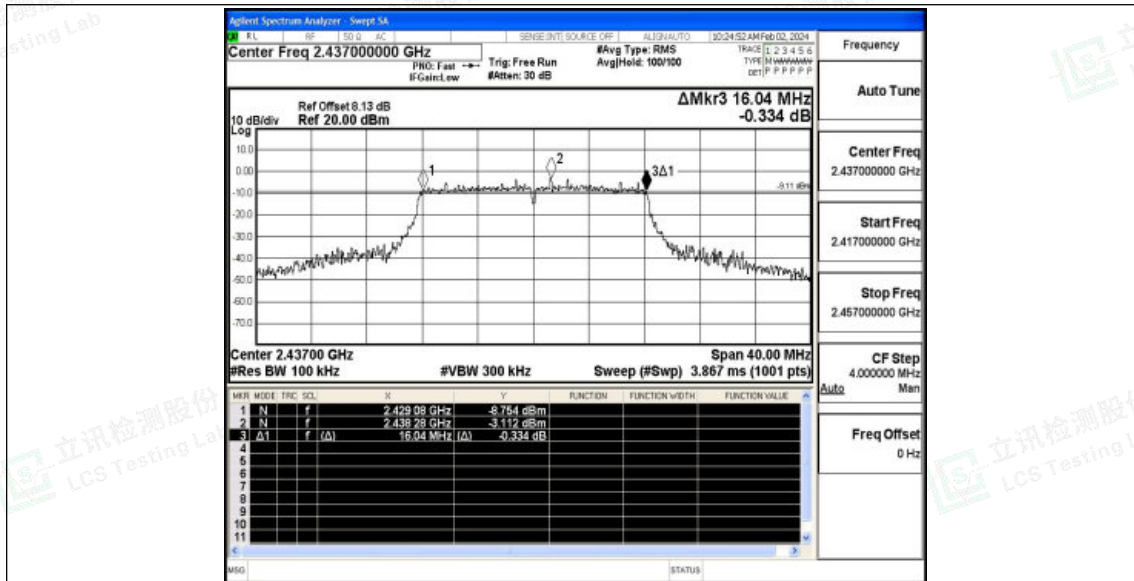


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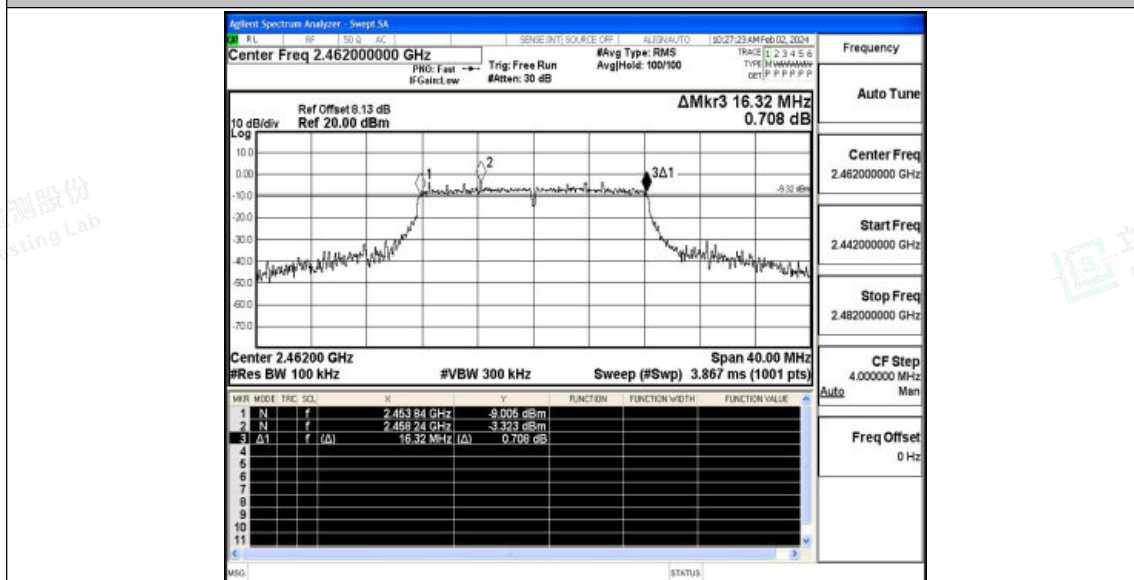
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11G_Ant1_2462



11N20SISO_Ant1_2412

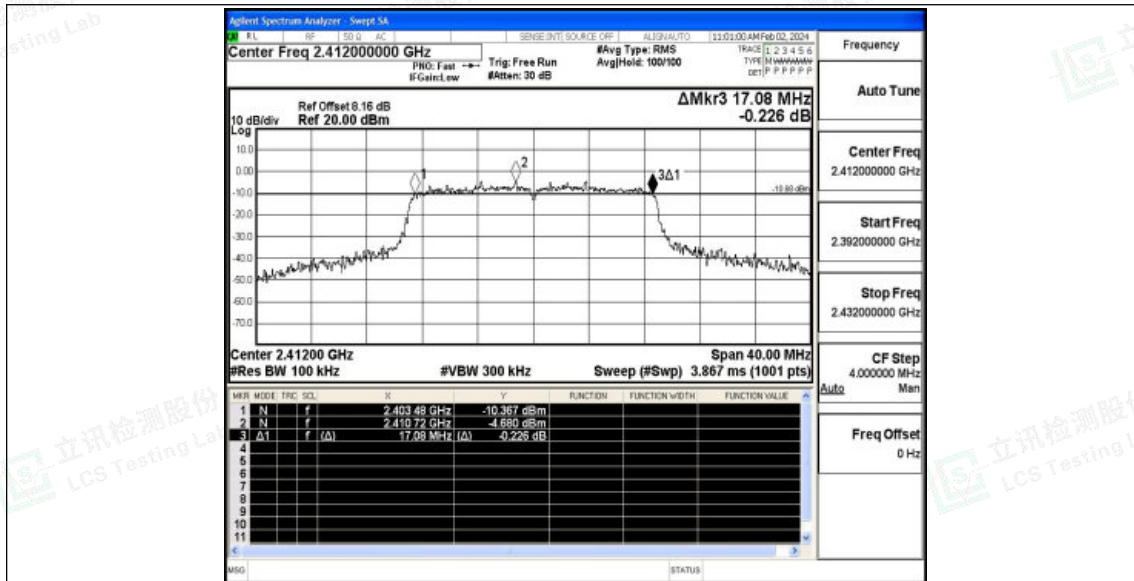


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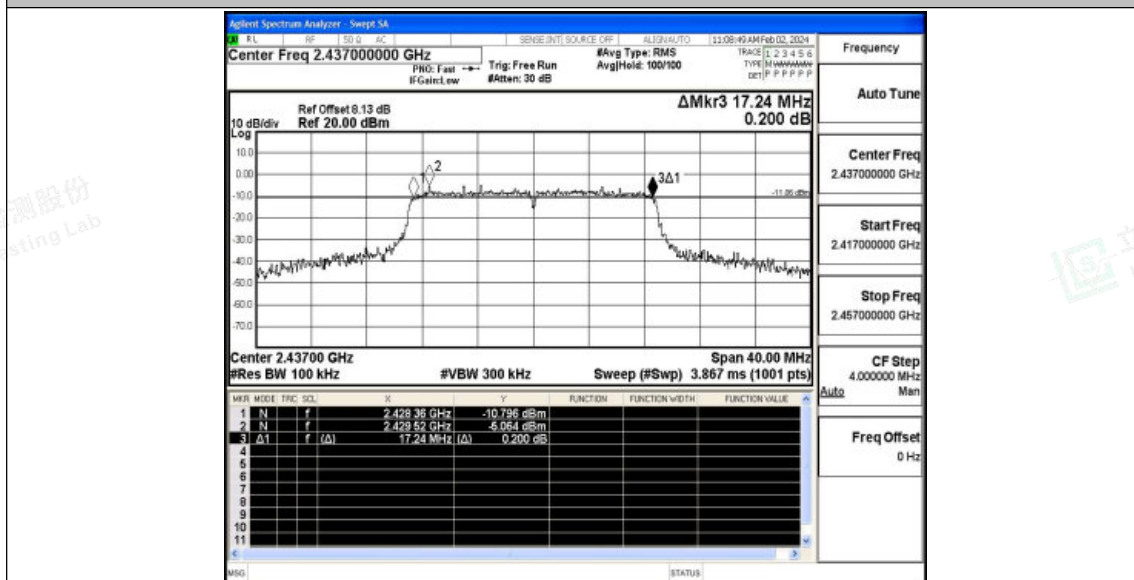
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

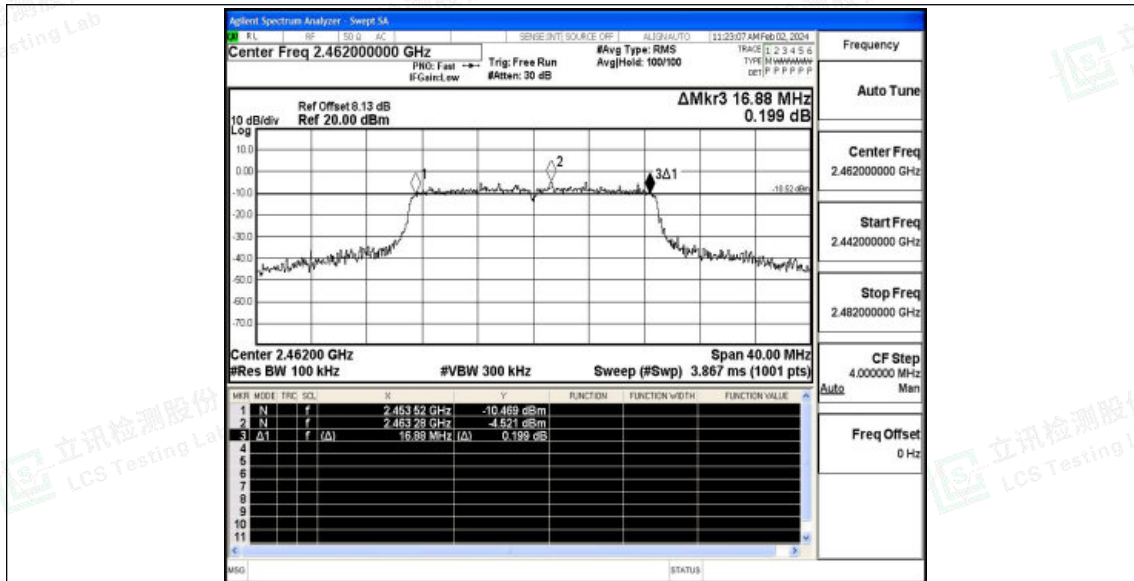


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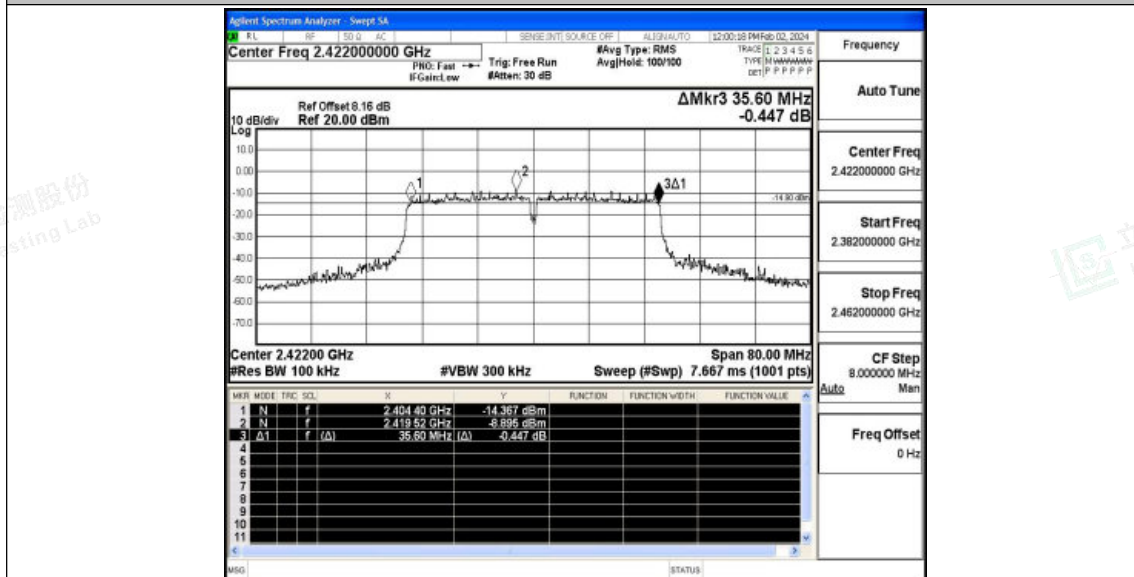
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

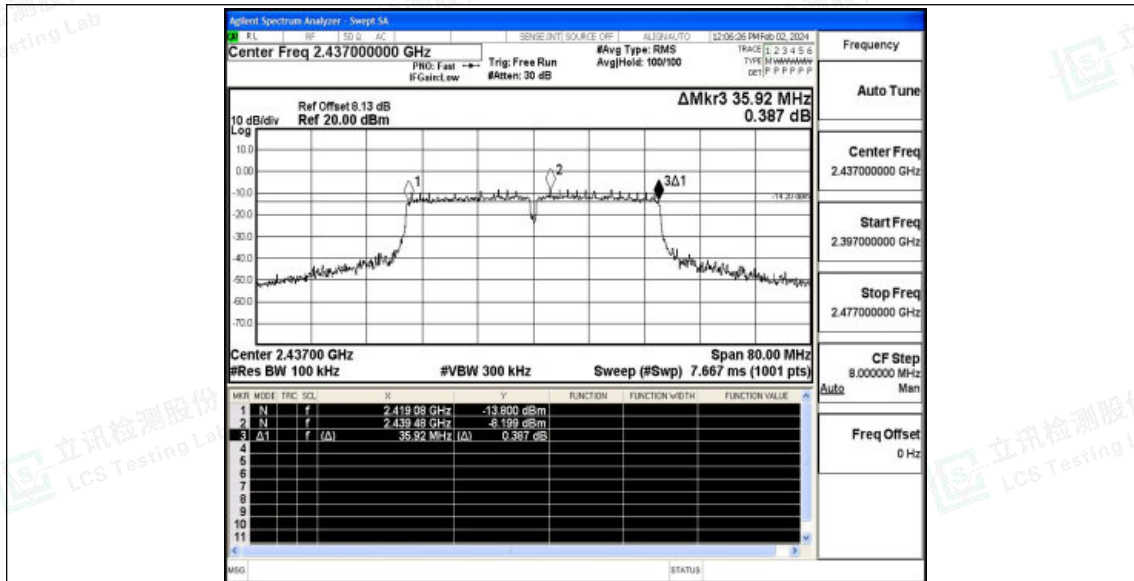


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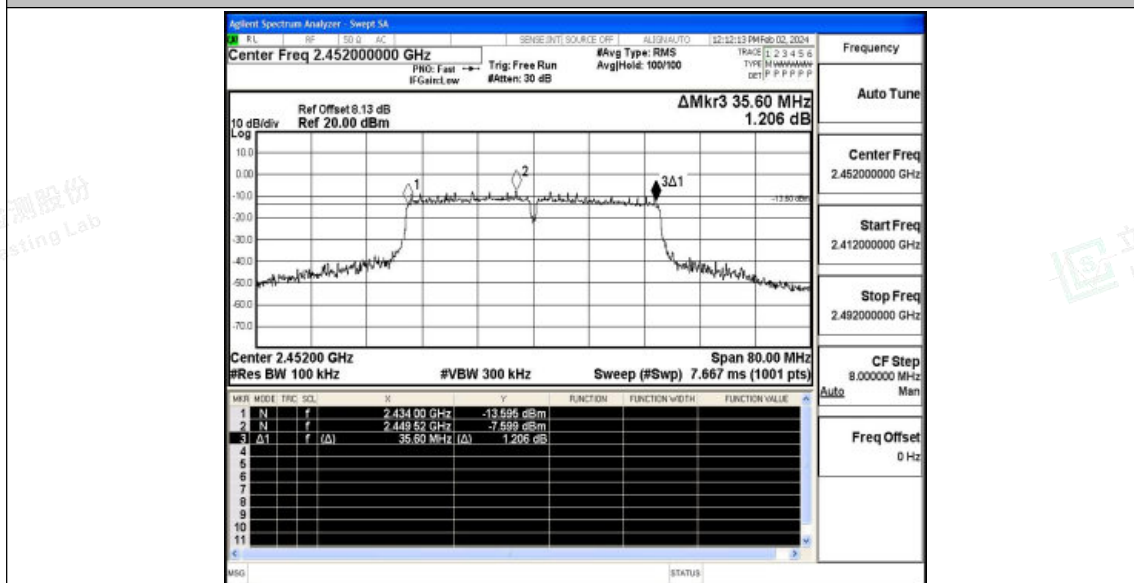
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11N40SISO_Ant1_2452



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B.2 Maximum conducted output power

TestMode	Antenna	Freq(M Hz)	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	15.05	≤30.00	PASS
		2437	---	15.09	≤30.00	PASS
		2462	---	15.05	≤30.00	PASS
11G	Ant1	2412	---	14.90	≤30.00	PASS
		2437	---	13.90	≤30.00	PASS
		2462	---	14.81	≤30.00	PASS
11N20SIS O	Ant1	2412	---	13.71	≤30.00	PASS
		2437	---	13.24	≤30.00	PASS
		2462	---	13.29	≤30.00	PASS
11N40SIS O	Ant1	2422	---	11.99	≤30.00	PASS
		2437	---	12.34	≤30.00	PASS
		2452	---	12.74	≤30.00	PASS



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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.46	≤8.00	PASS
		2437	-8.44	≤8.00	PASS
		2462	-8.39	≤8.00	PASS
11G	Ant1	2412	-17.31	≤8.00	PASS
		2437	-17.77	≤8.00	PASS
		2462	-17.87	≤8.00	PASS
11N20SISO	Ant1	2412	-18.05	≤8.00	PASS
		2437	-18.29	≤8.00	PASS
		2462	-18.49	≤8.00	PASS
11N40SISO	Ant1	2422	-22.96	≤8.00	PASS
		2437	-22.66	≤8.00	PASS
		2452	-22.13	≤8.00	PASS

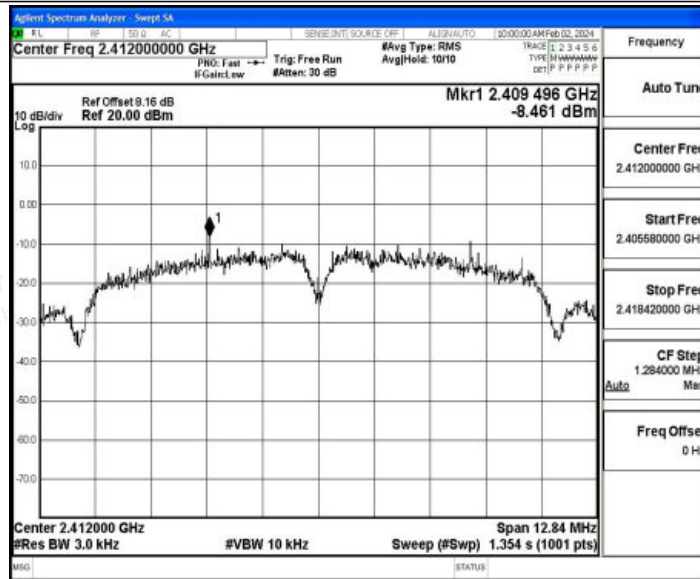


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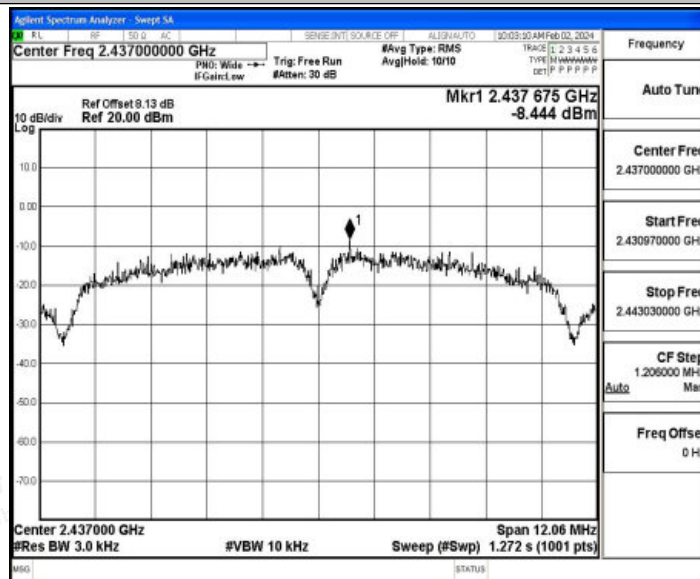


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

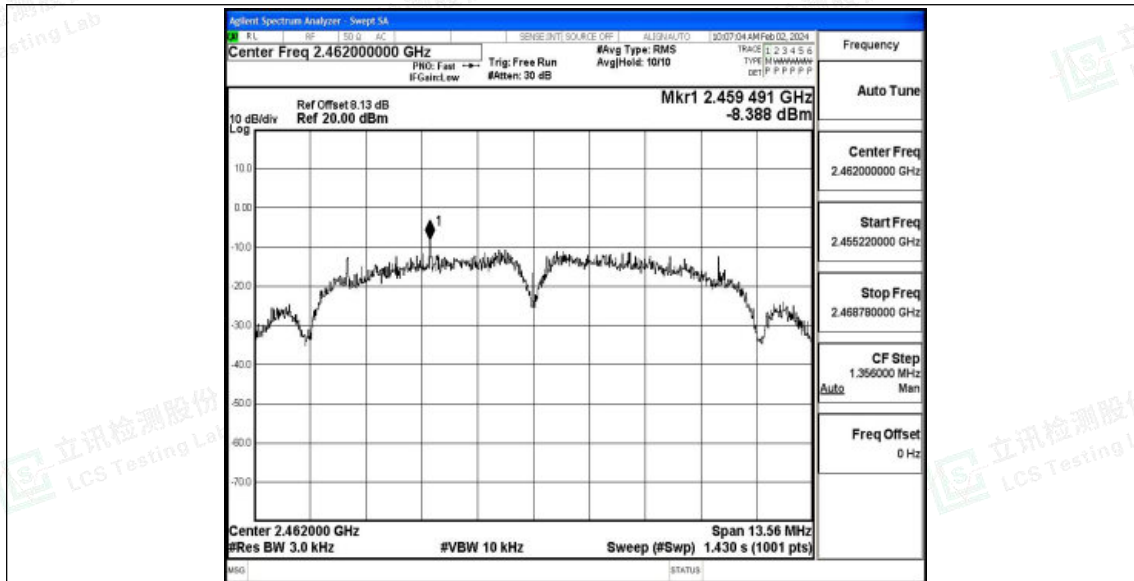


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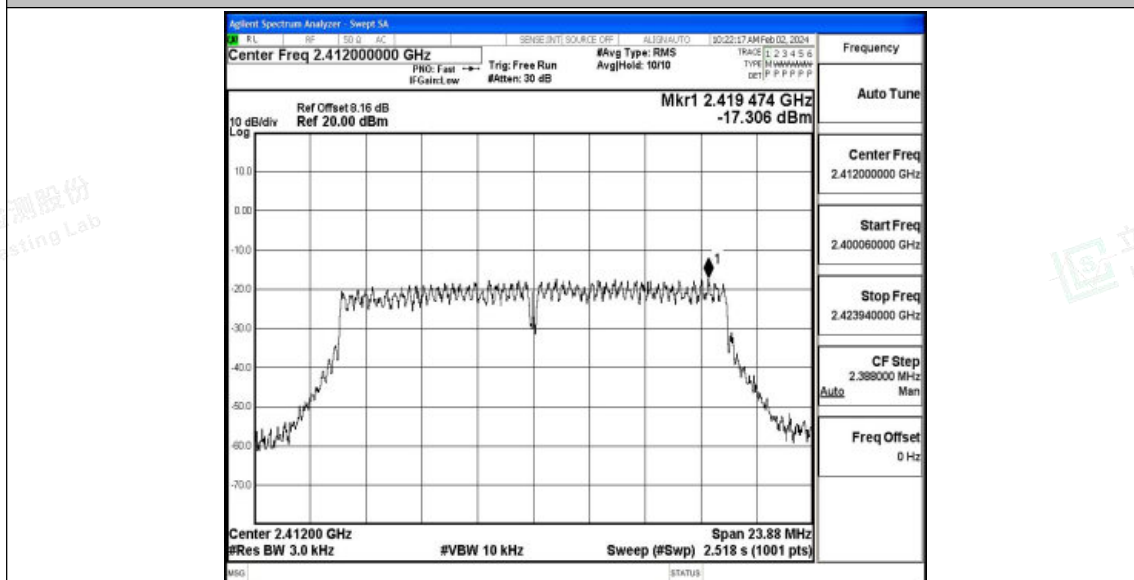
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11G_Ant1_2412



11G_Ant1_2437

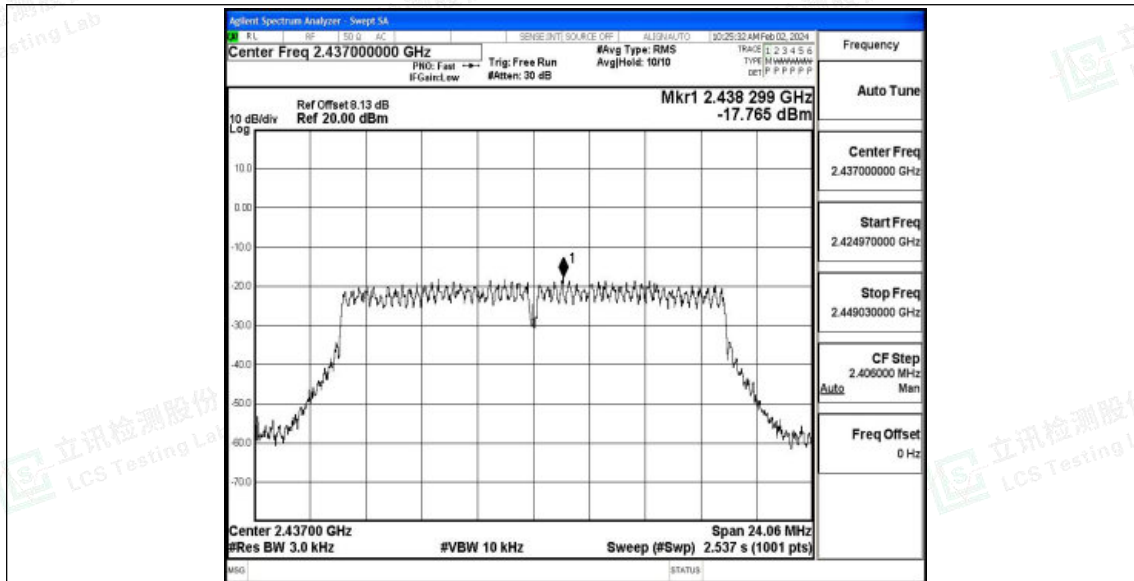


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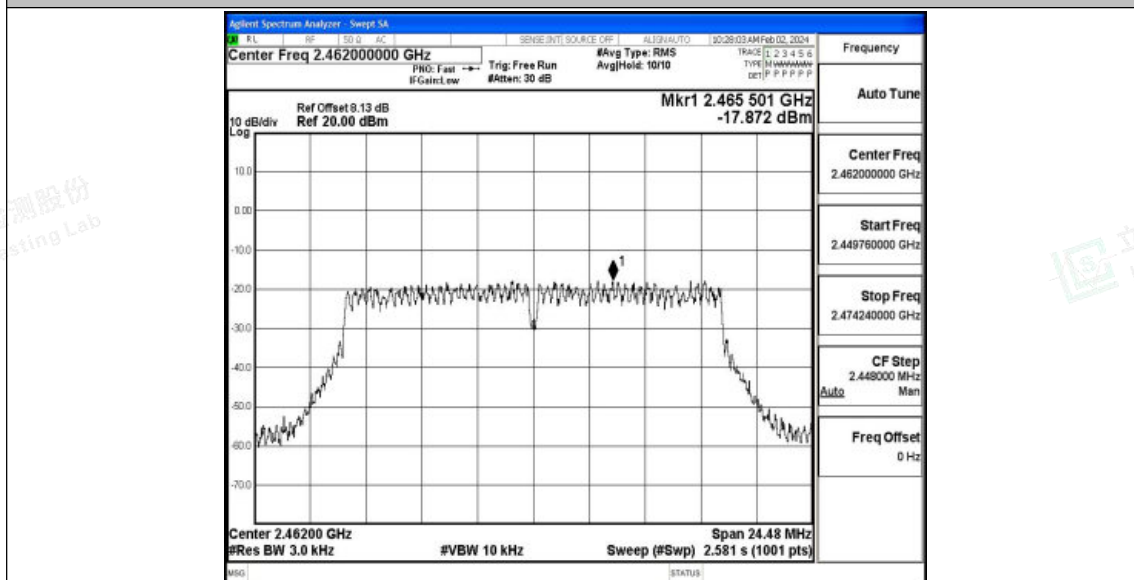
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11G_Ant1_2462



11N20SISO_Ant1_2412

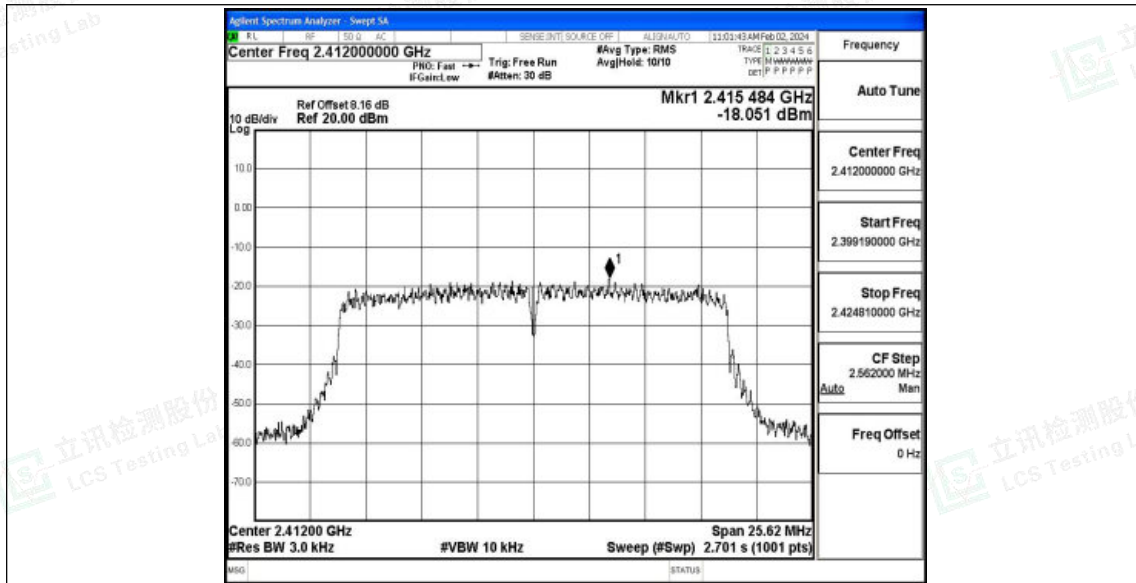


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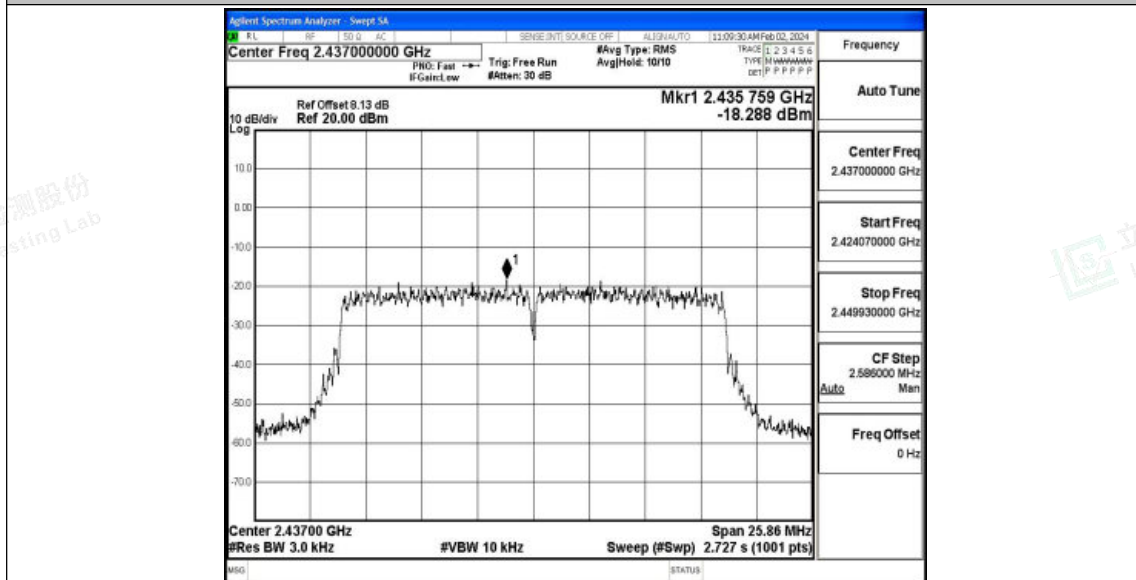
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

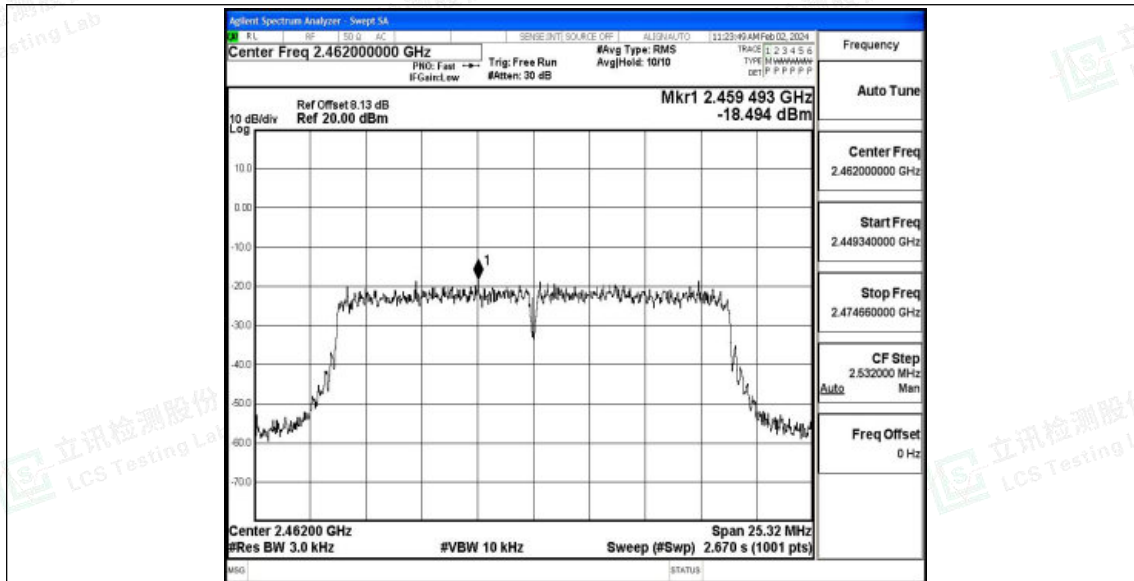


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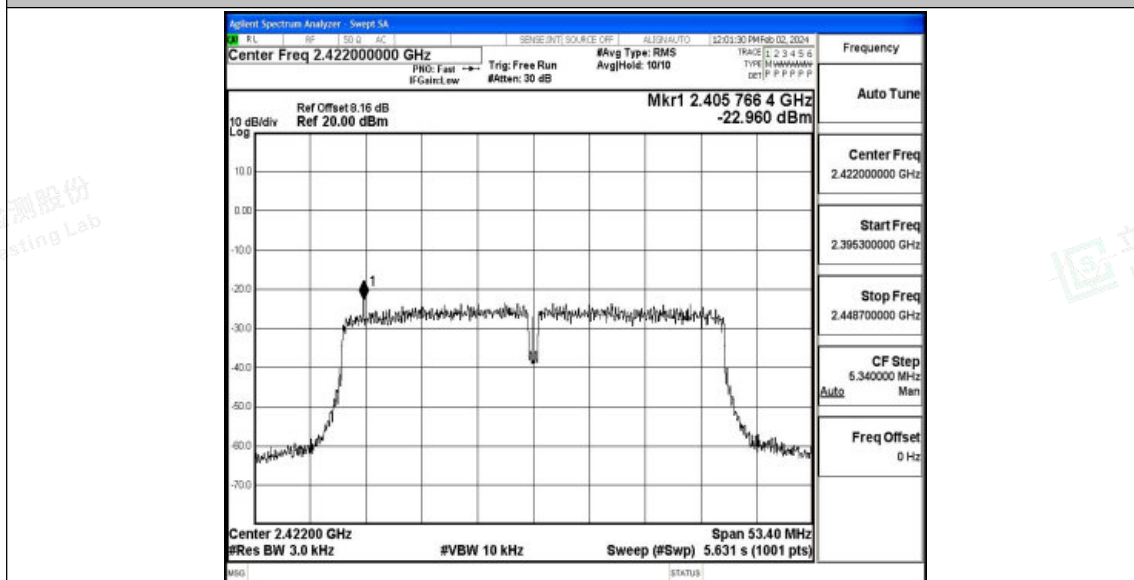
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

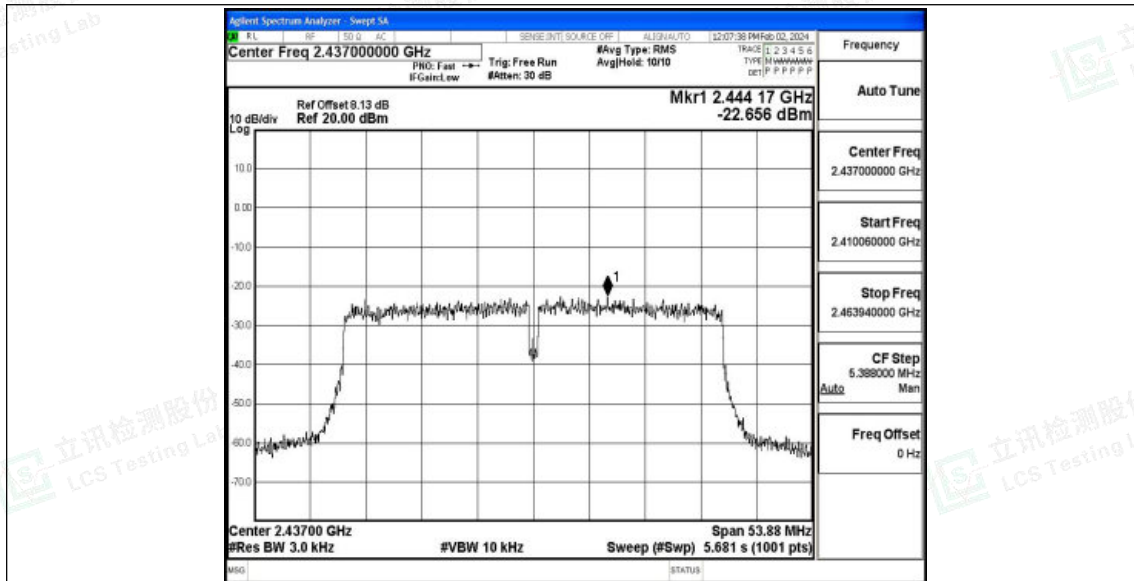


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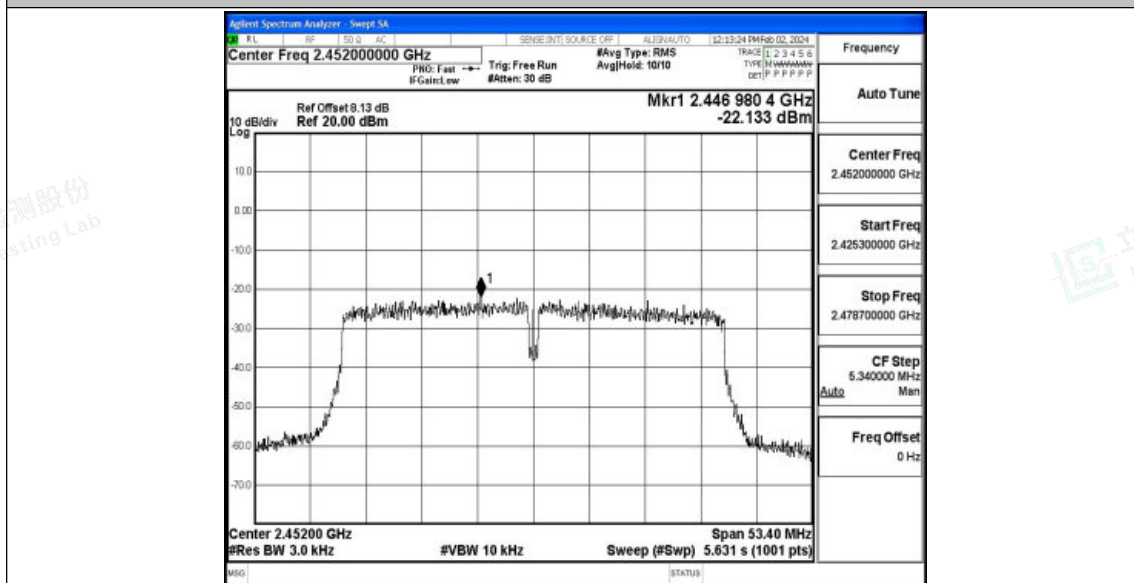
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11N40SISO_Ant1_2452



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Appendix E: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2414.00	3.41
		2437	2438.00	3.72
		2462	2463.02	3.42
11G	Ant1	2412	2410.73	-3.25
		2437	2439.53	-3.50
		2462	2464.50	-2.71
11N20SISO	Ant1	2412	2413.28	-3.94
		2437	2439.51	-4.62
		2462	2459.52	-5.16
11N40SISO	Ant1	2422	2419.49	-8.62
		2437	2440.77	-8.19
		2452	2449.54	-7.91

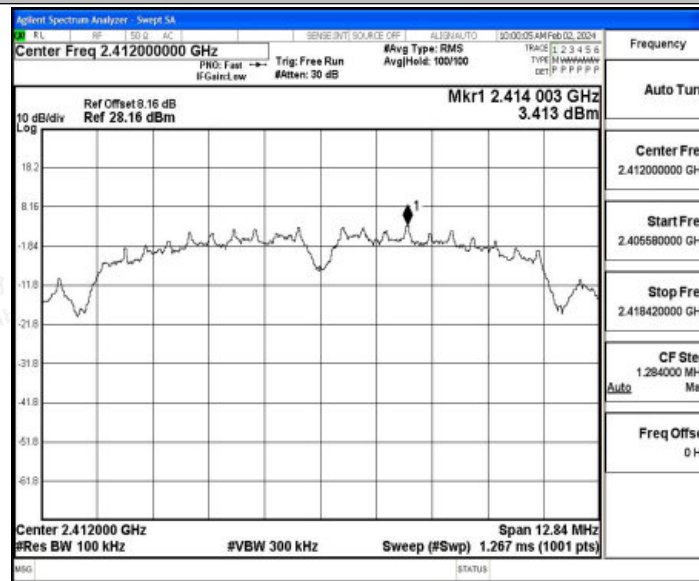


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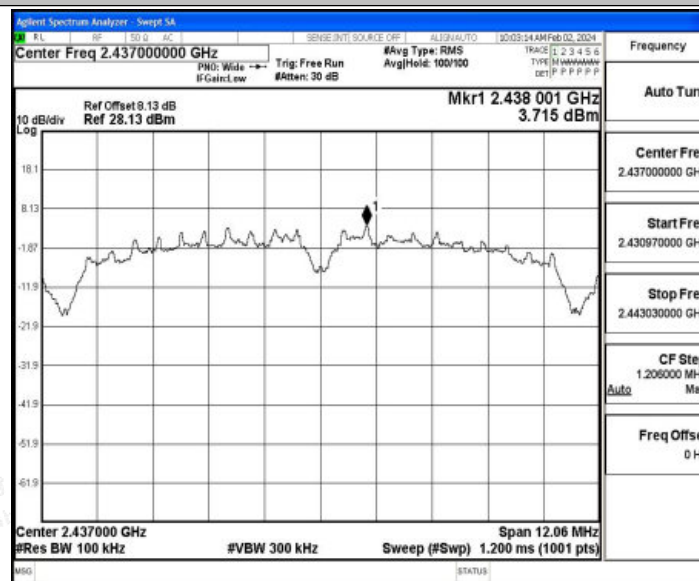


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

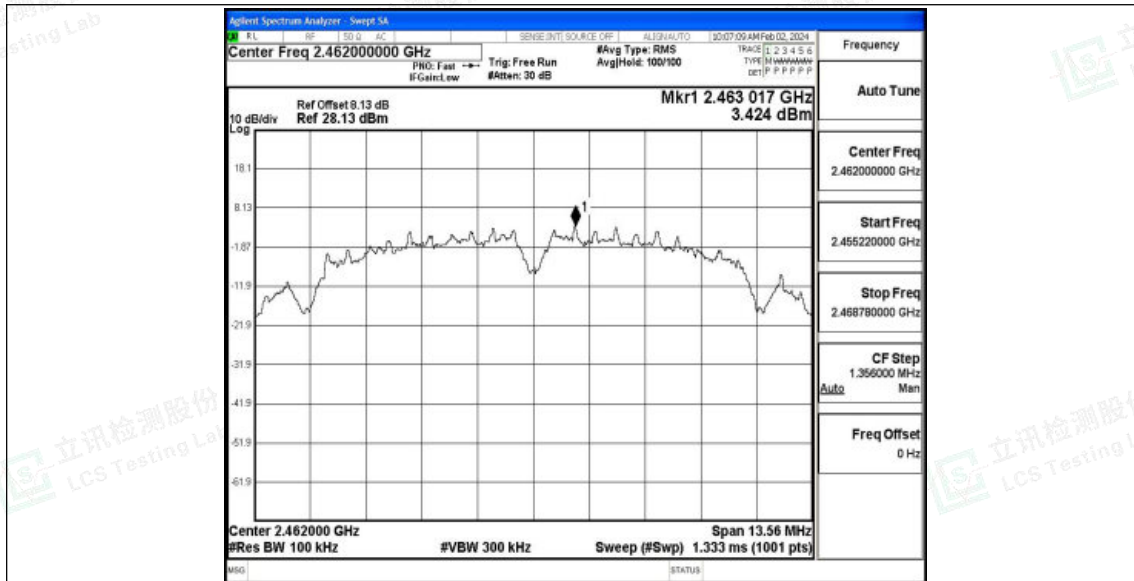


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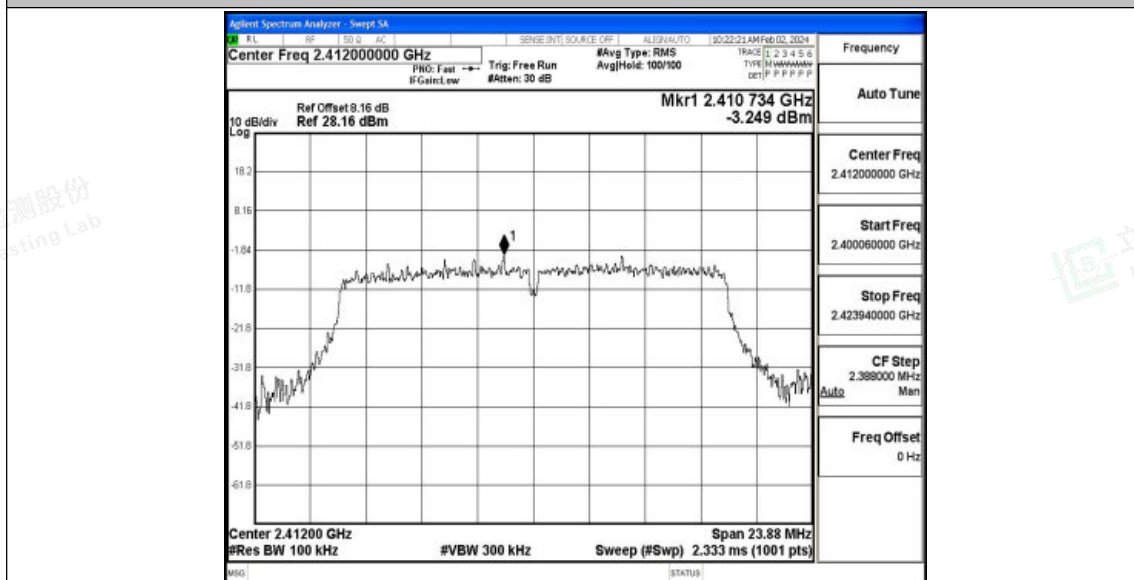
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11G_Ant1_2412



11G_Ant1_2437

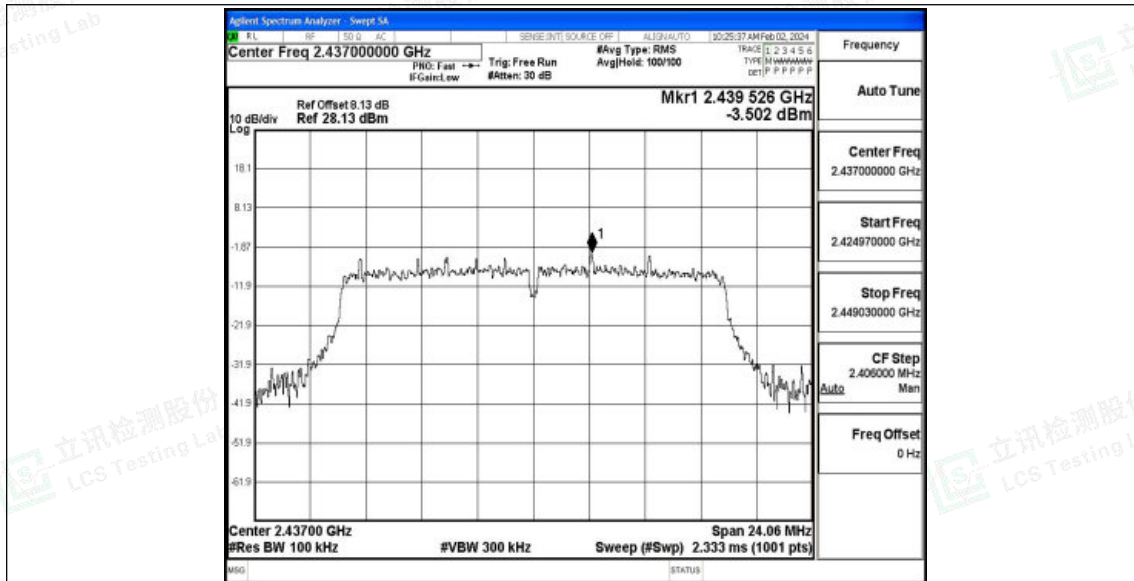


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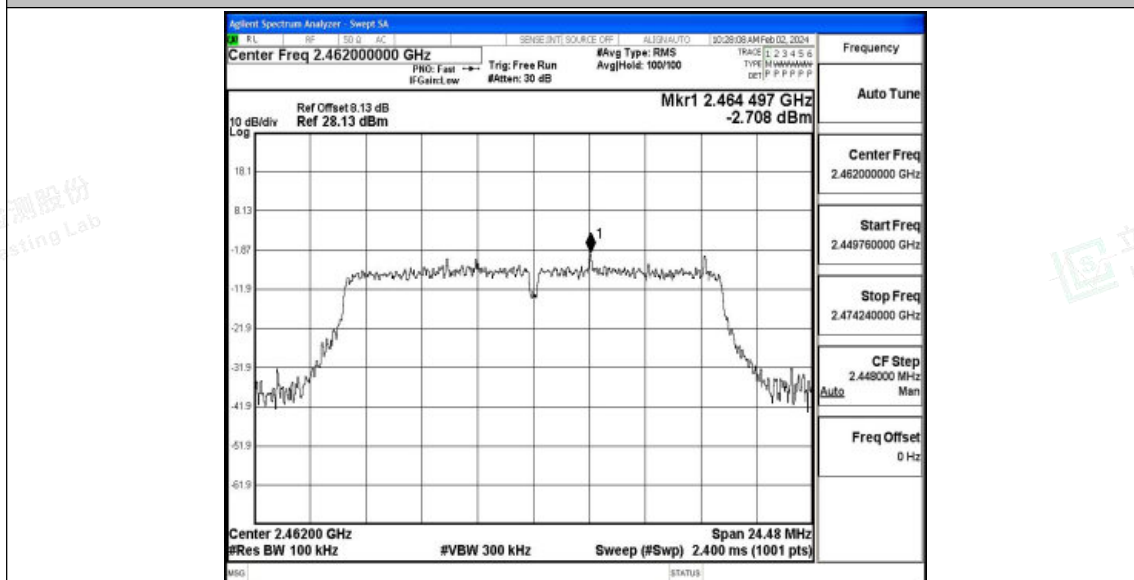
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11G_Ant1_2462



11N20SISO_Ant1_2412

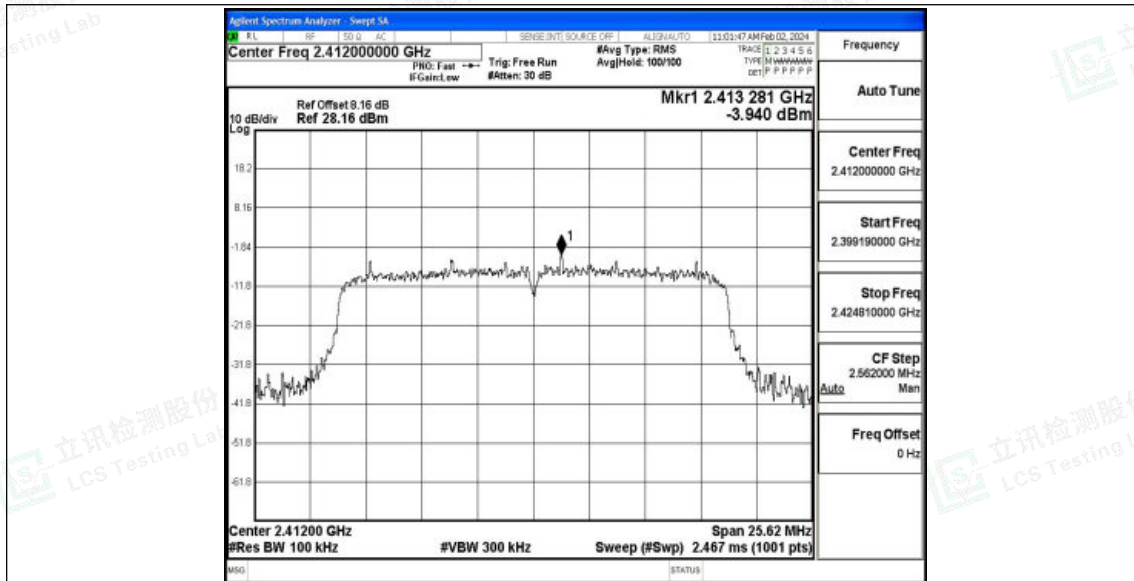


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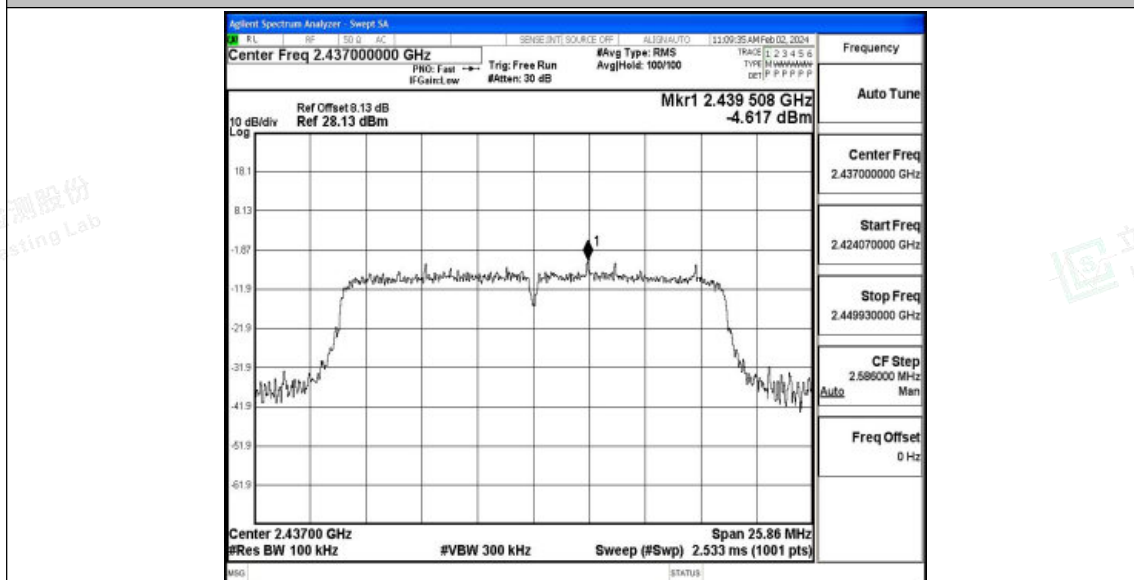
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

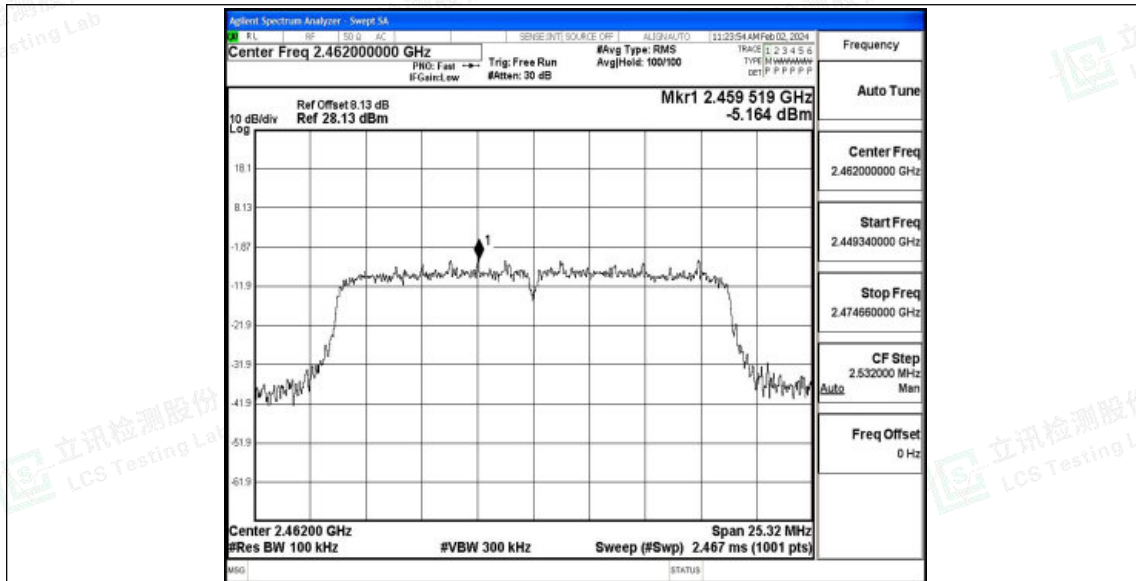


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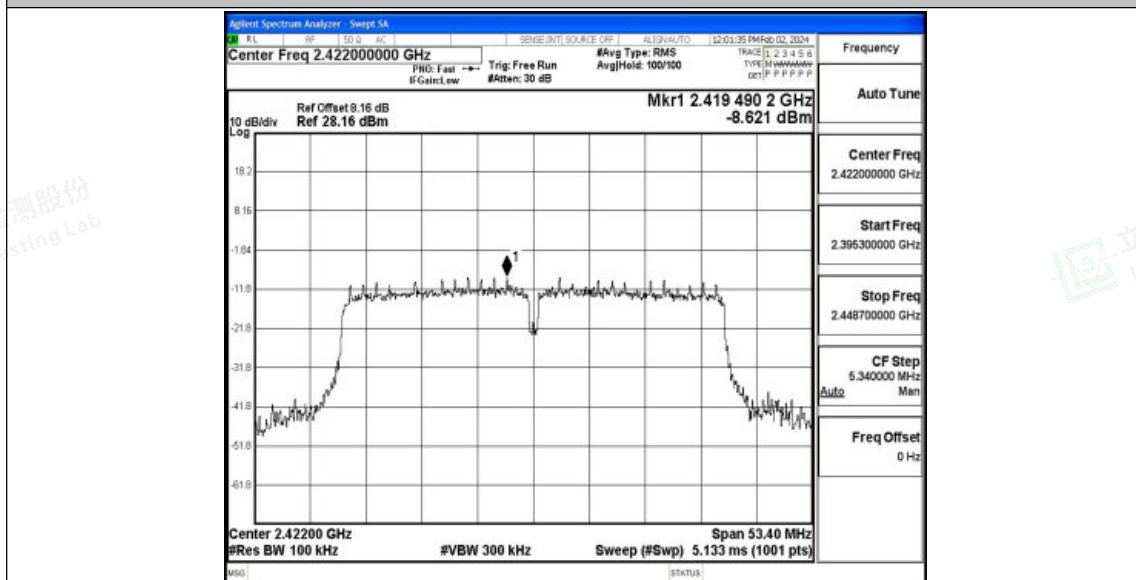
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

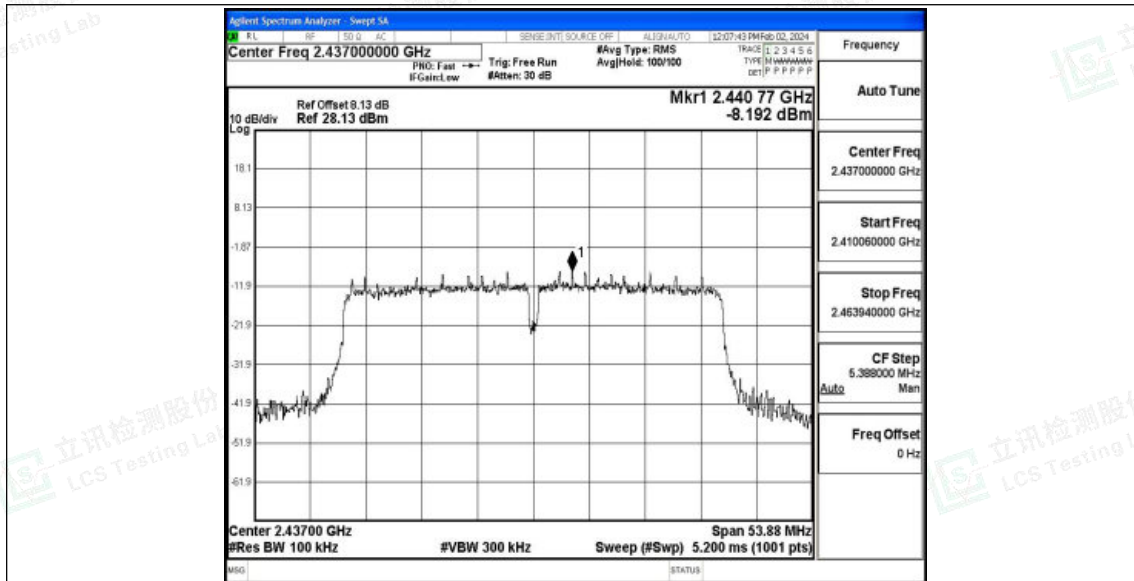


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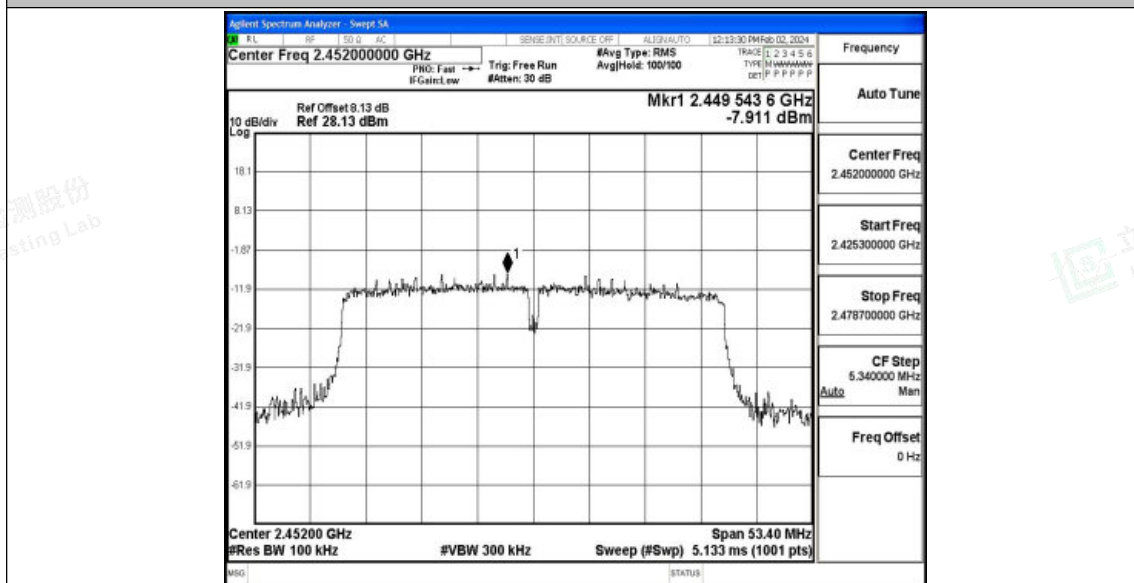
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11N40SISO_Ant1_2452



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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.41	-48.04	≤-16.59	PASS
		High	2462	3.42	-49.39	≤-16.58	PASS
11G	Ant1	Low	2412	-3.25	-36.64	≤-23.25	PASS
		High	2462	-2.71	-46.81	≤-22.71	PASS
11N20SISO	Ant1	Low	2412	-3.94	-33.95	≤-23.94	PASS
		High	2462	-5.16	-46.55	≤-25.16	PASS
11N40SISO	Ant1	Low	2422	-8.62	-40.12	≤-28.62	PASS
		High	2452	-7.91	-44.84	≤-27.91	PASS

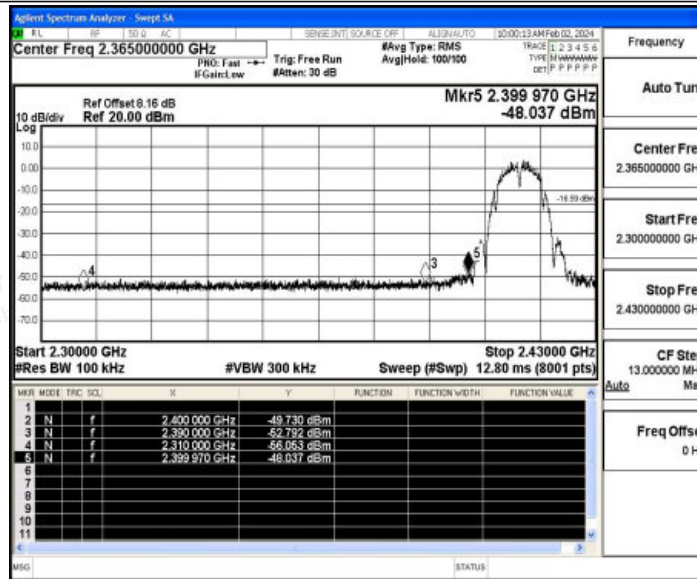


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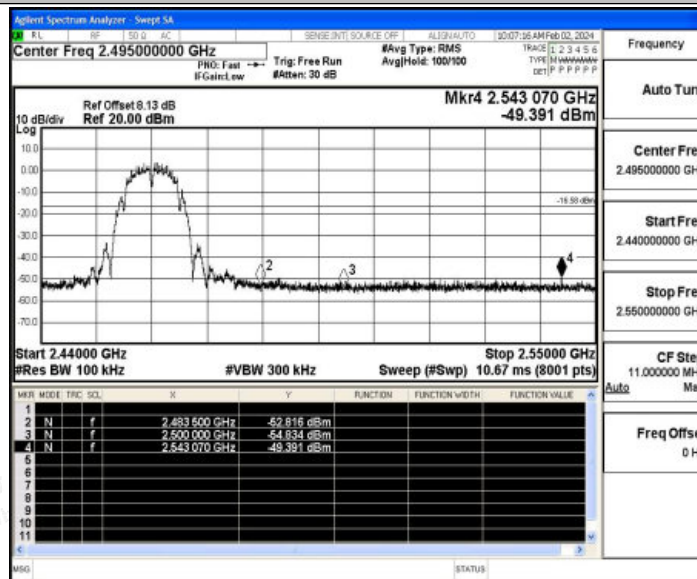


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

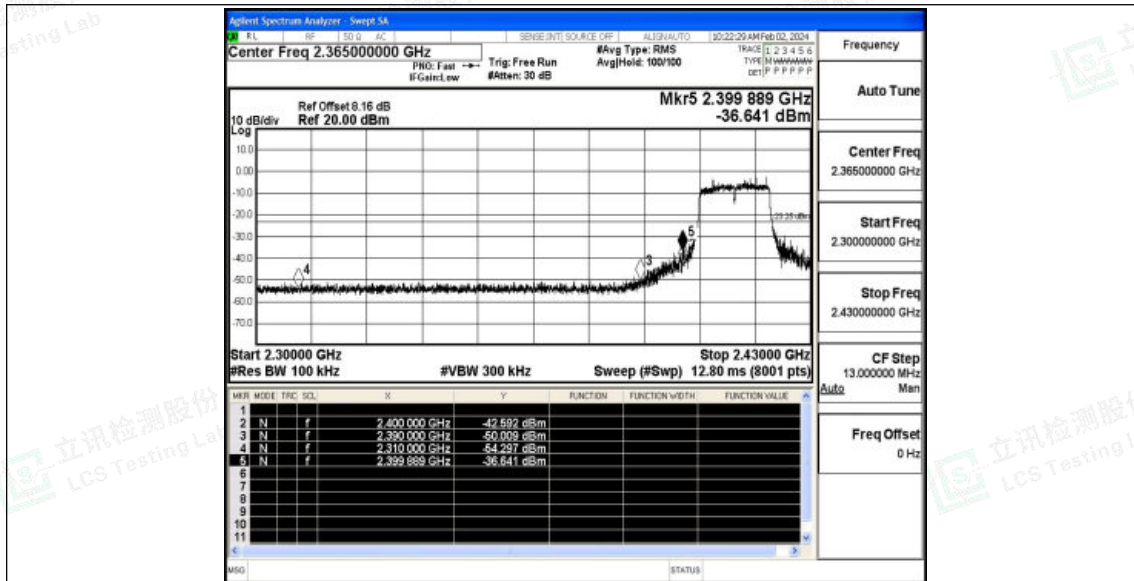


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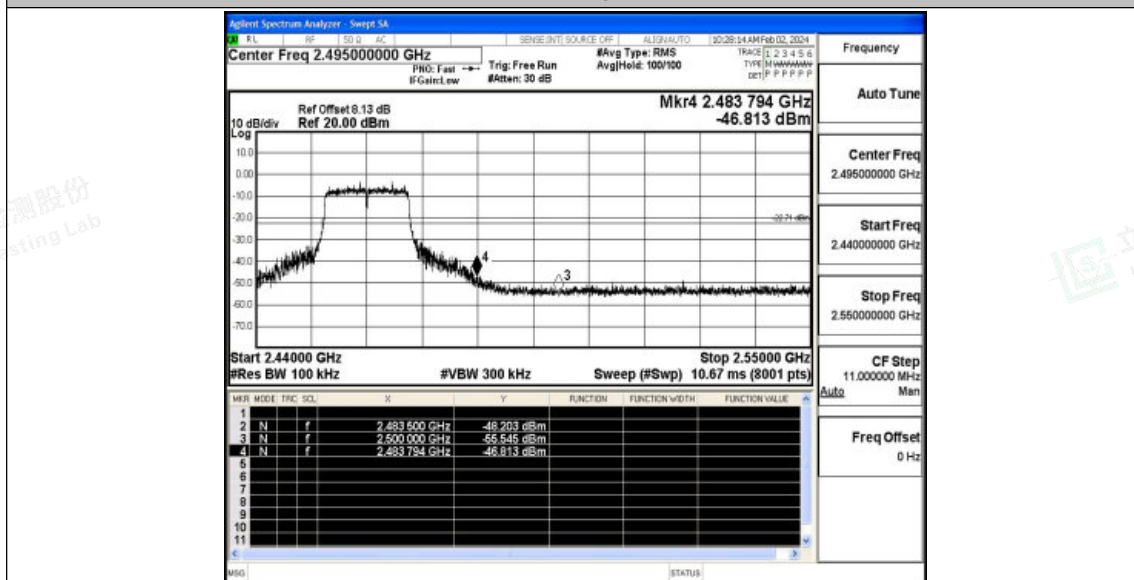
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

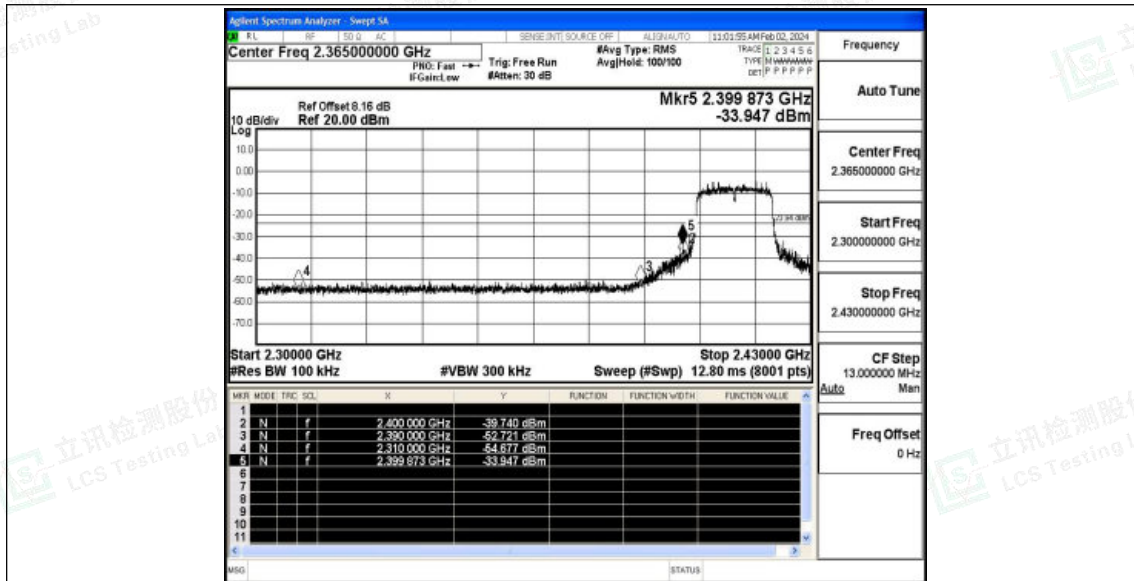


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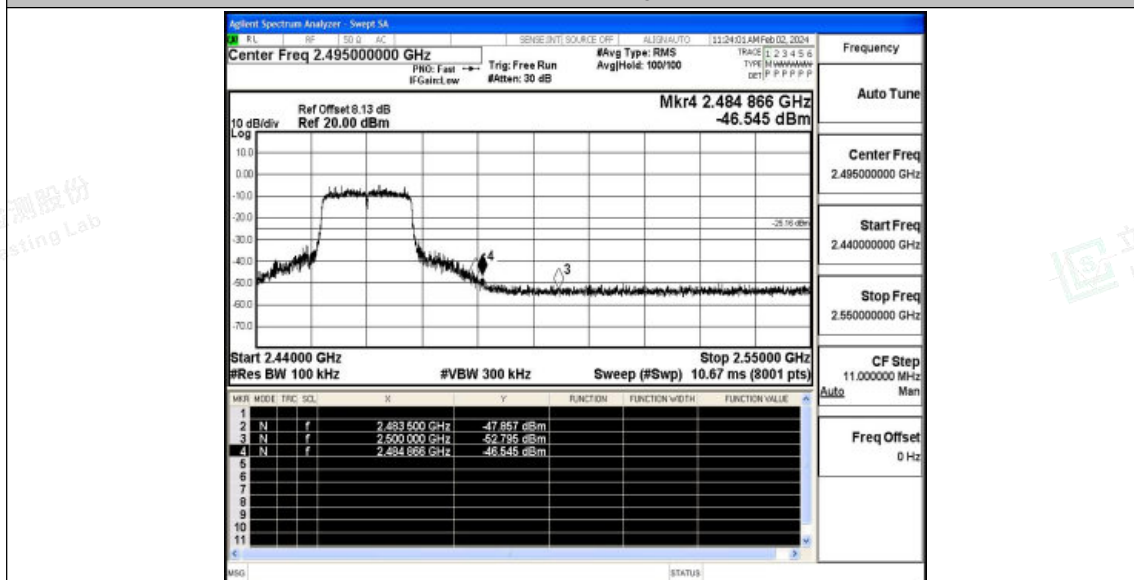
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

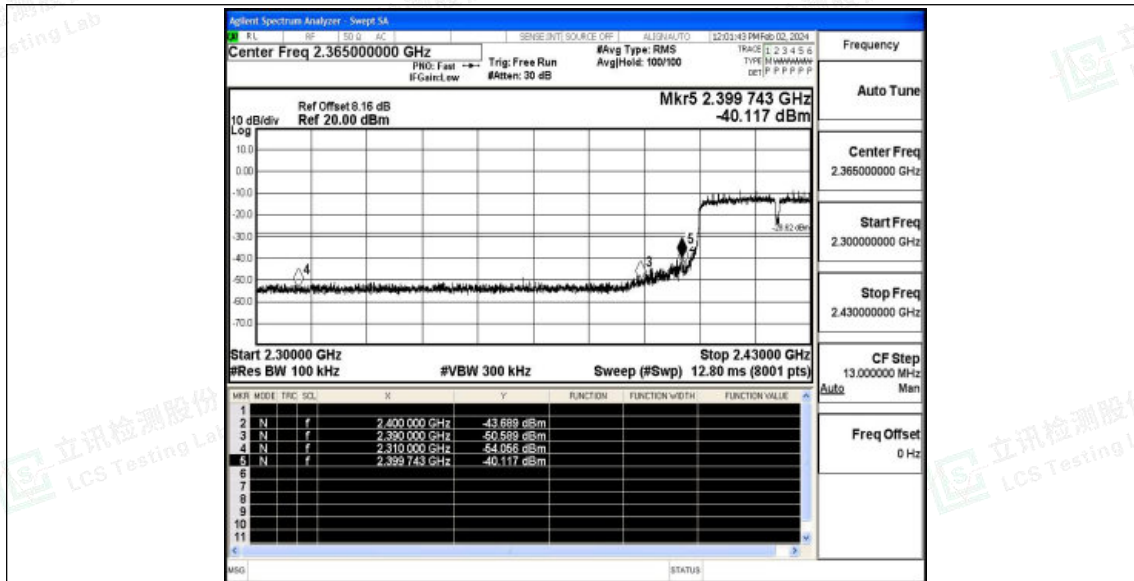


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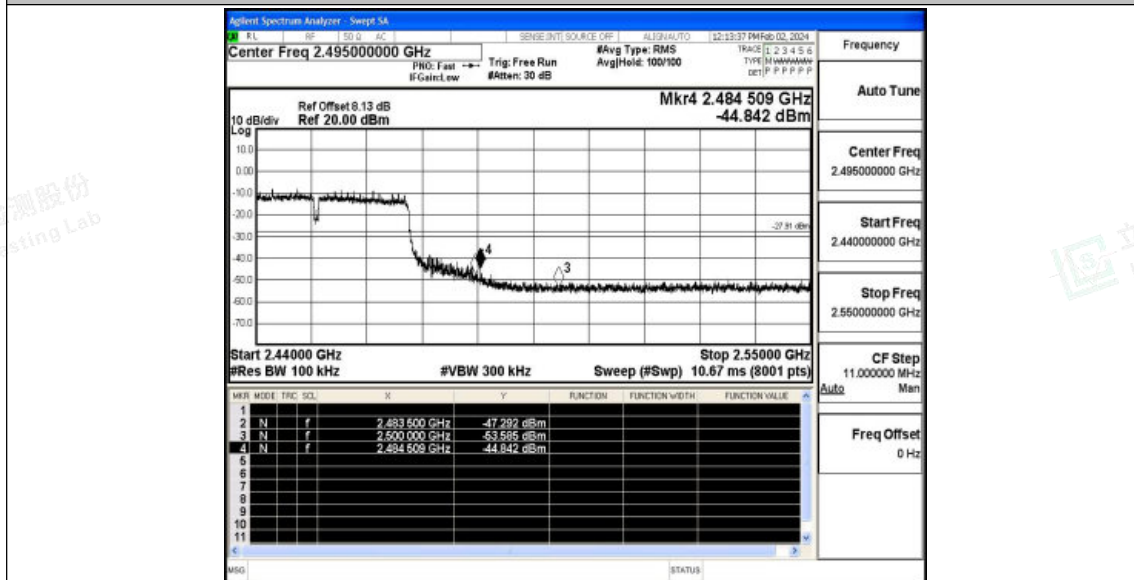
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_High_2452



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.41	-61.7	≤-16.59	PASS
			1000~26500	3.41	-49.31	≤-16.59	PASS
		2437	30~1000	3.72	-61.24	≤-16.28	PASS
			1000~26500	3.72	-49.3	≤-16.28	PASS
		2462	30~1000	3.42	-61.89	≤-16.58	PASS
			1000~26500	3.42	-48.96	≤-16.58	PASS
11G	Ant1	2412	30~1000	-3.25	-61.92	≤-23.25	PASS
			1000~26500	-3.25	-48.92	≤-23.25	PASS
		2437	30~1000	-3.50	-61.49	≤-23.5	PASS
			1000~26500	-3.50	-49.51	≤-23.5	PASS
		2462	30~1000	-2.71	-57.03	≤-22.71	PASS
			1000~26500	-2.71	-48.83	≤-22.71	PASS
11N20SISO	Ant1	2412	30~1000	-3.94	-61.32	≤-23.94	PASS
			1000~26500	-3.94	-48.83	≤-23.94	PASS
		2437	30~1000	-4.62	-61.98	≤-24.62	PASS
			1000~26500	-4.62	-49.22	≤-24.62	PASS
		2462	30~1000	-5.16	-61.74	≤-25.16	PASS
			1000~26500	-5.16	-49.37	≤-25.16	PASS
11N40SISO	Ant1	2422	30~1000	-8.62	-61.69	≤-28.62	PASS
			1000~26500	-8.62	-48.75	≤-28.62	PASS
		2437	30~1000	-8.19	-61.57	≤-28.19	PASS
			1000~26500	-8.19	-48.6	≤-28.19	PASS
		2452	30~1000	-7.91	-61.84	≤-27.91	PASS
			1000~26500	-7.91	-48.39	≤-27.91	PASS



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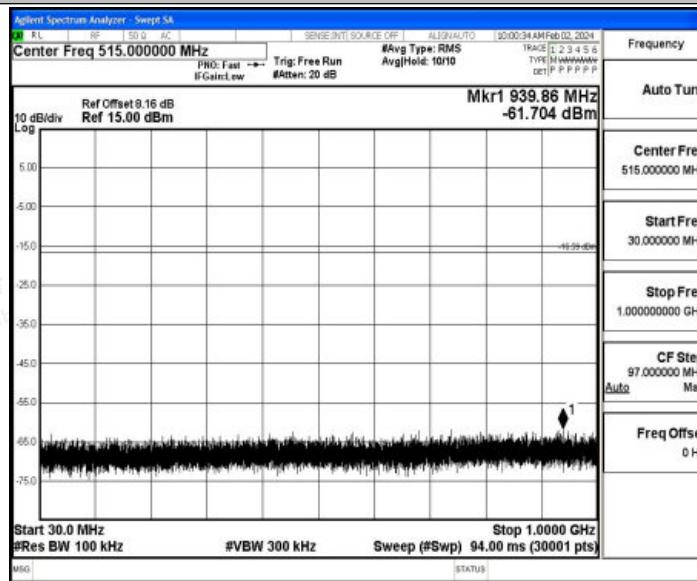
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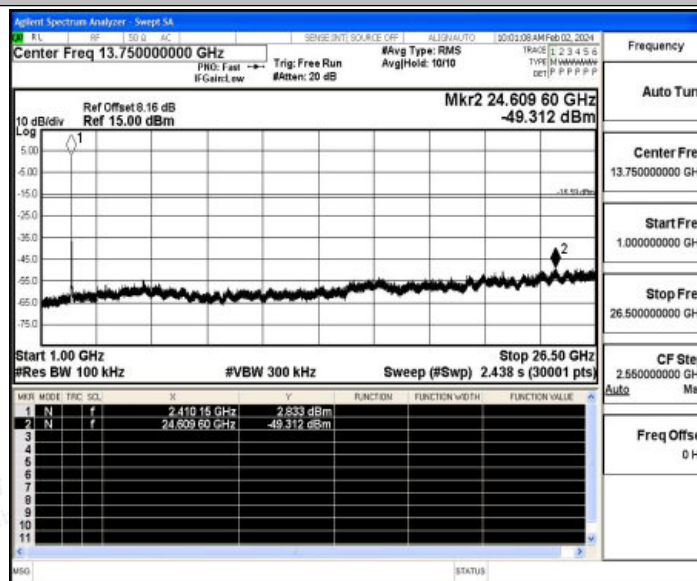


Test Graphs

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_30~1000

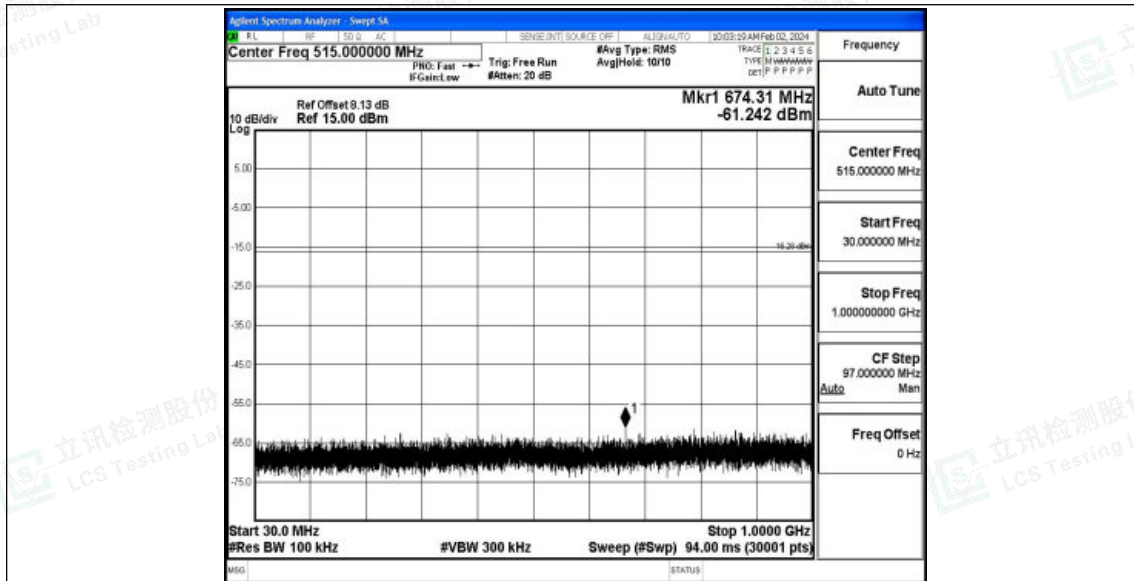


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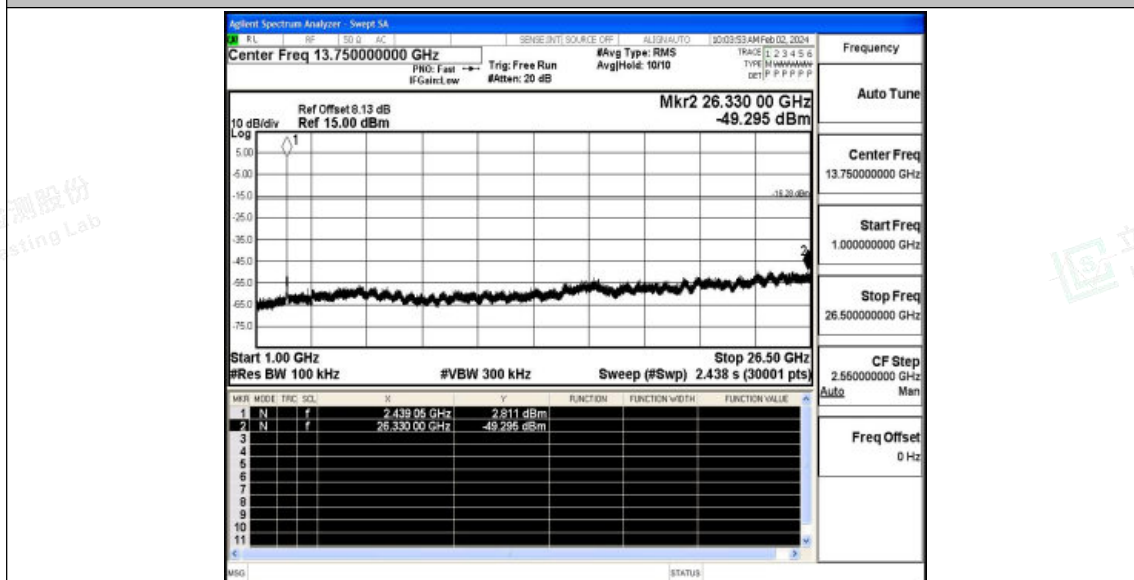
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

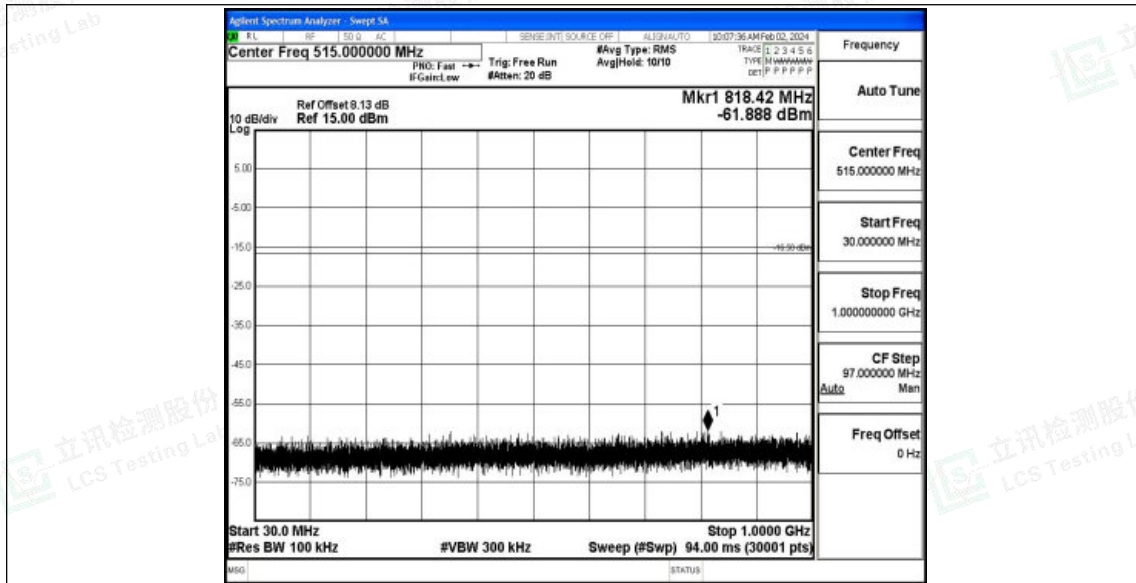


Shenzhen LCS Compliance Testing Laboratory Ltd.

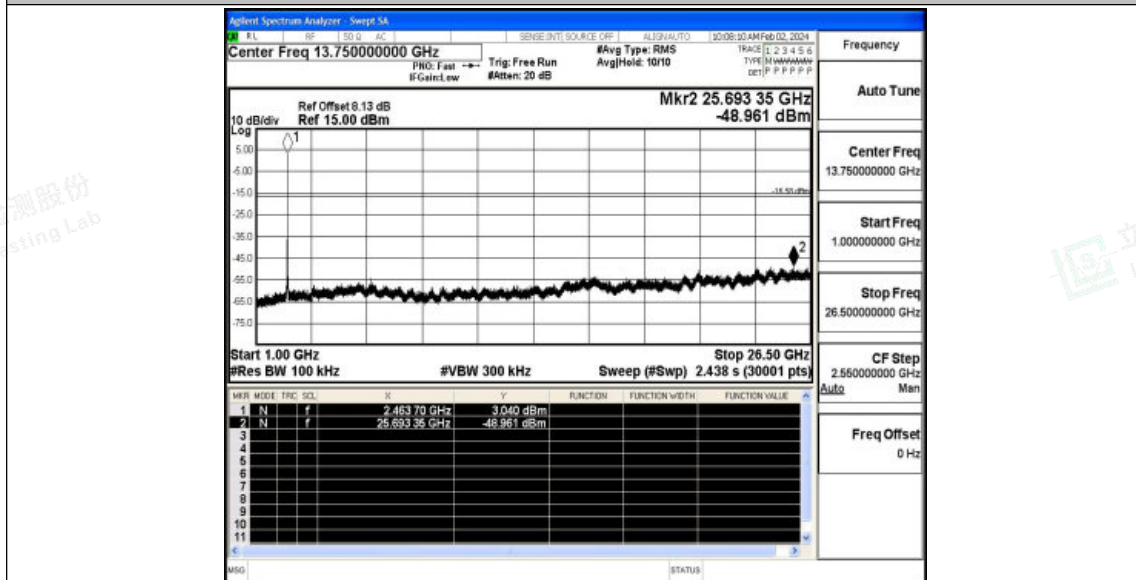
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

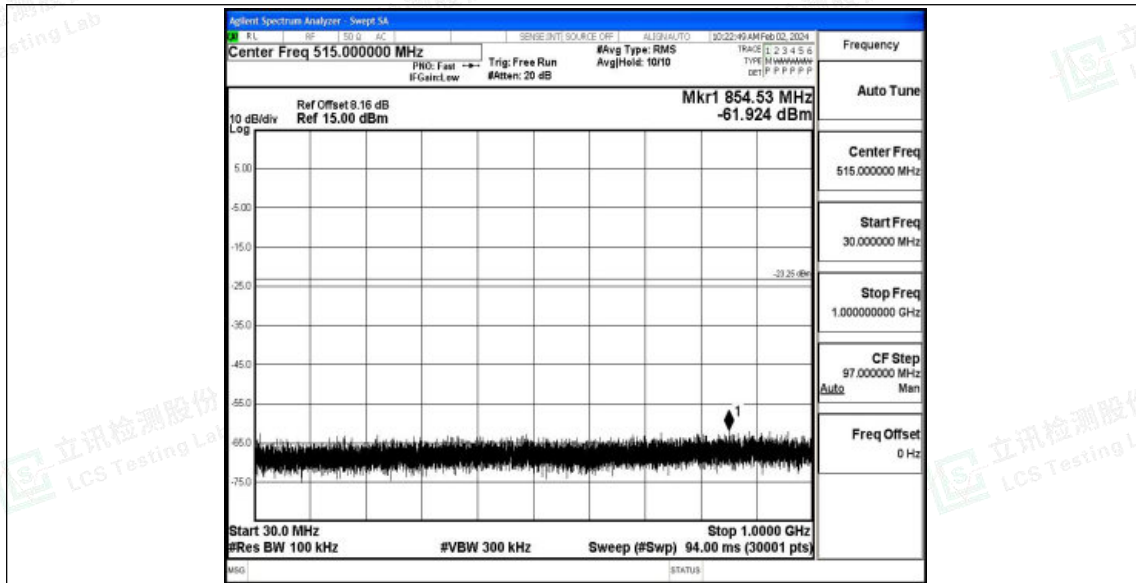


Shenzhen LCS Compliance Testing Laboratory Ltd.

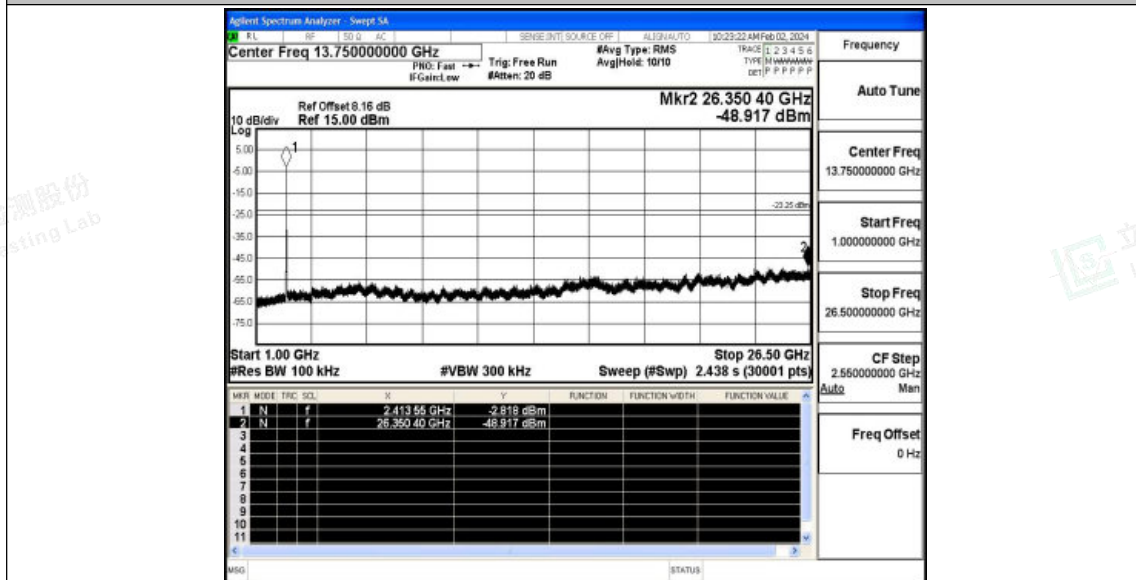
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412_1000~26500



11G_Ant1_2437_30~1000

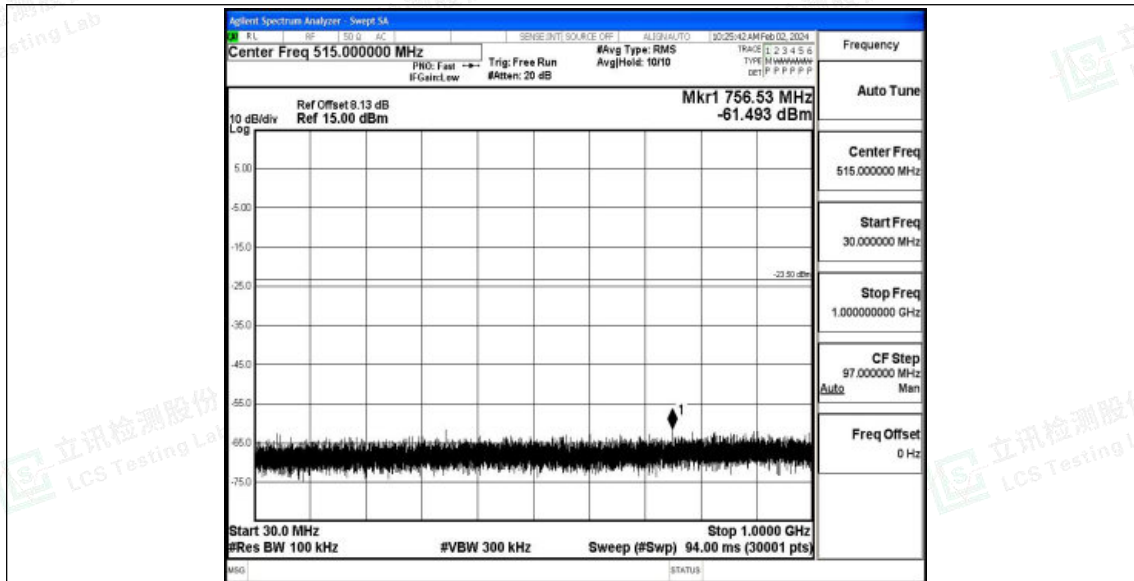


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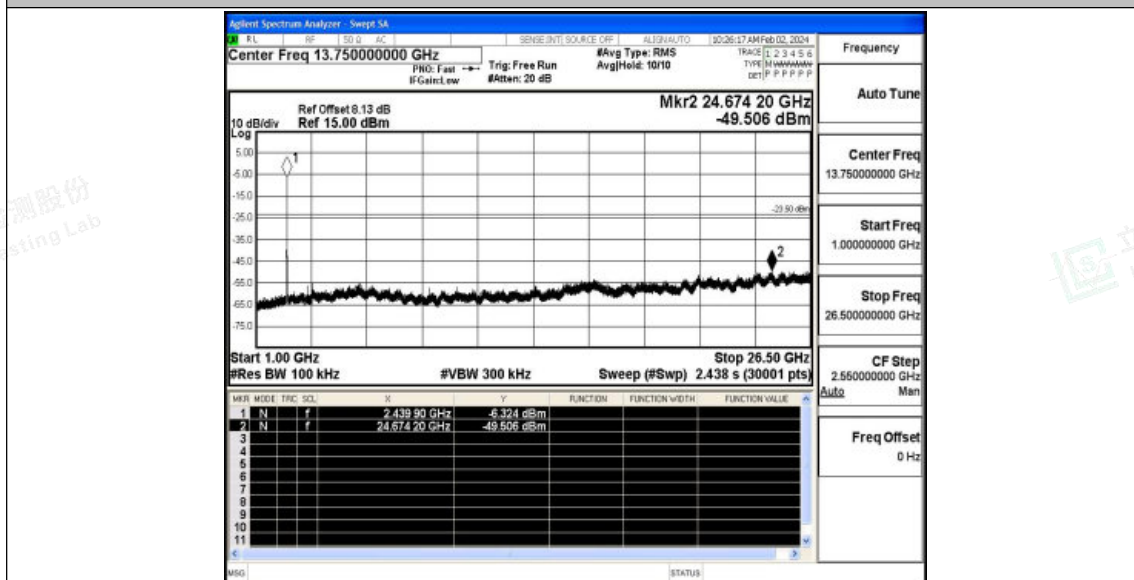
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

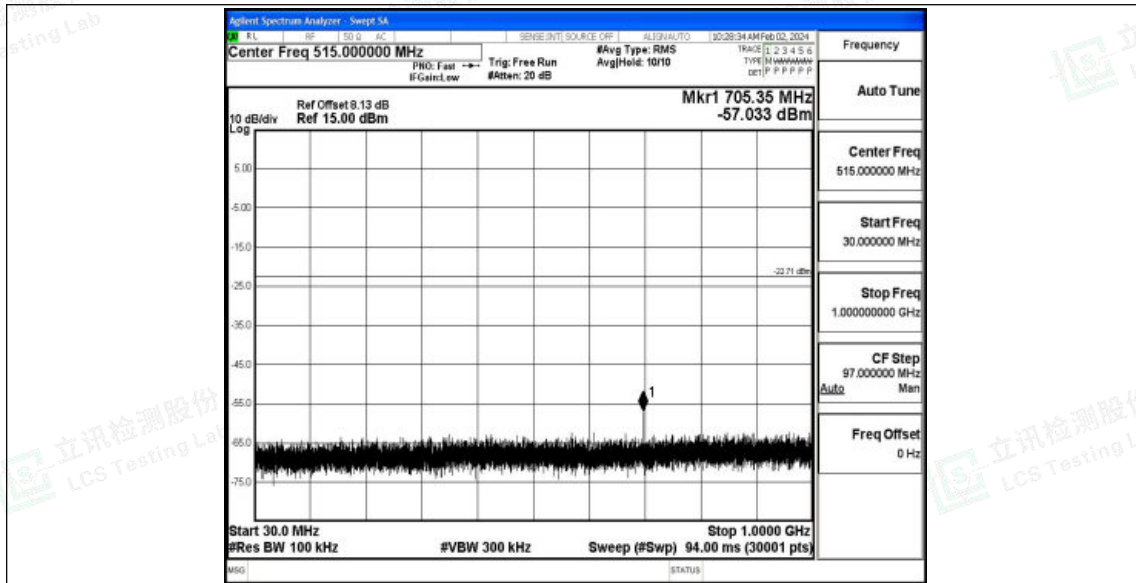


Shenzhen LCS Compliance Testing Laboratory Ltd.

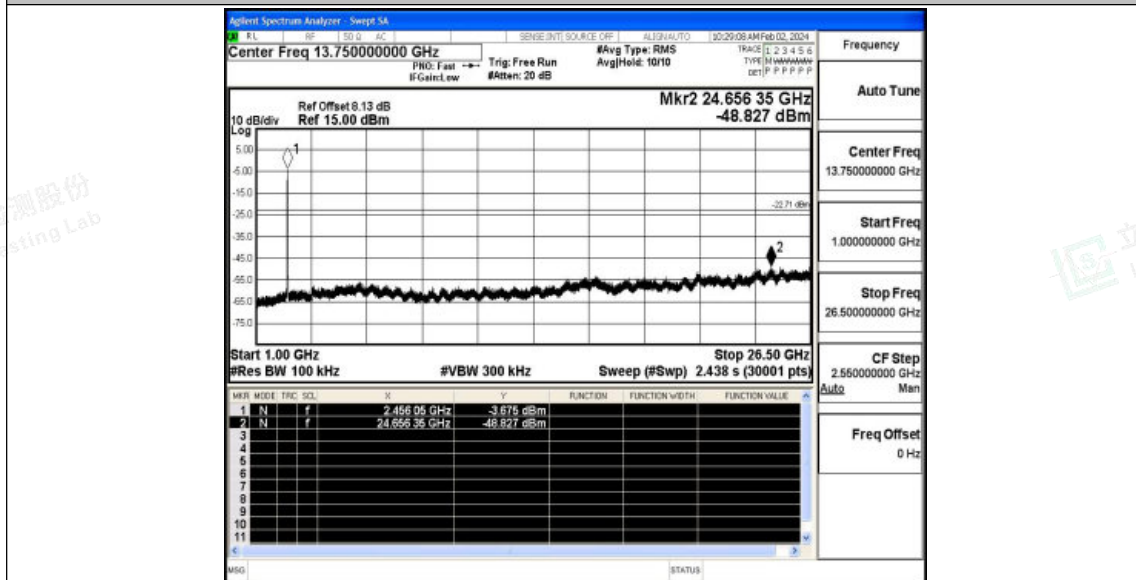
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

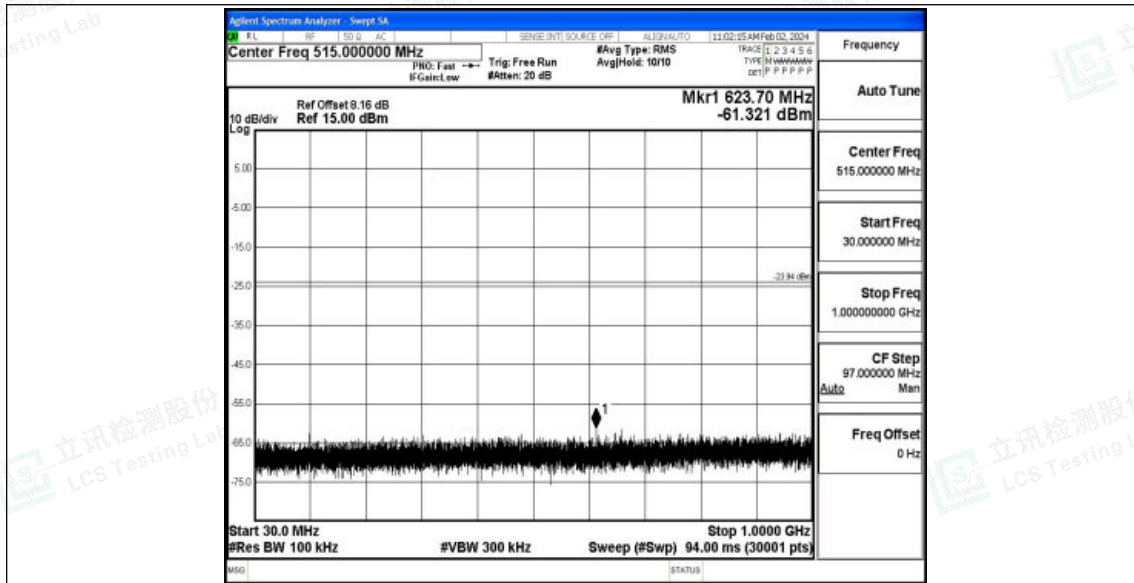


Shenzhen LCS Compliance Testing Laboratory Ltd.

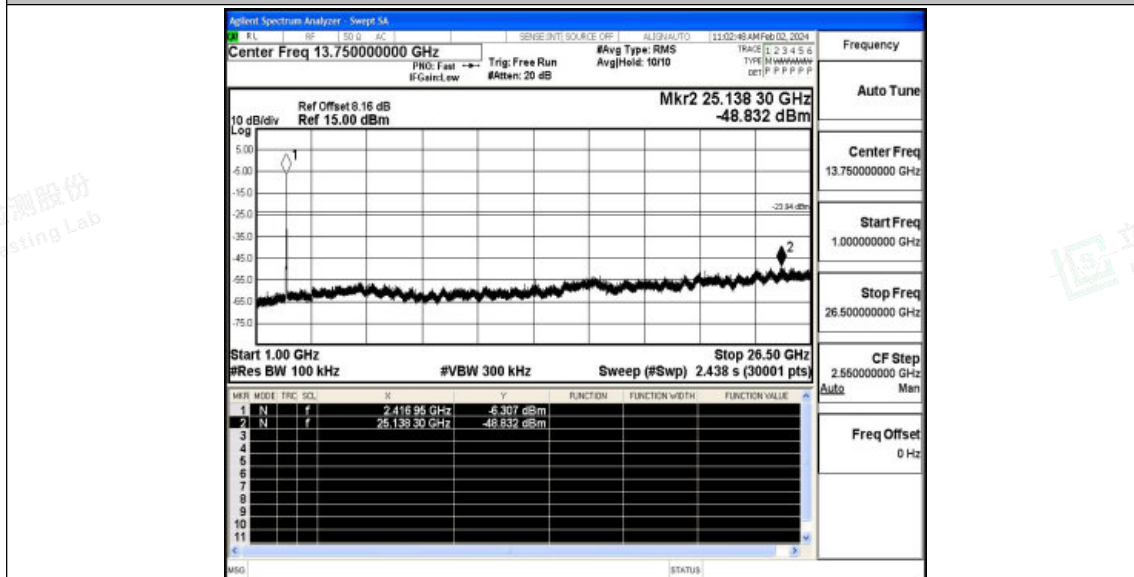
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

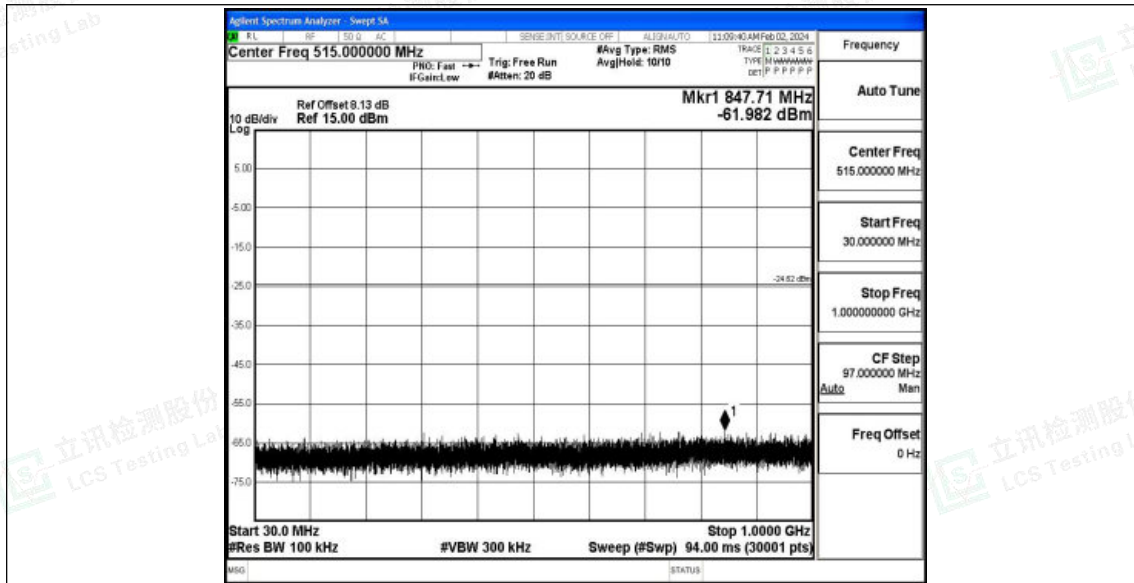


Shenzhen LCS Compliance Testing Laboratory Ltd.

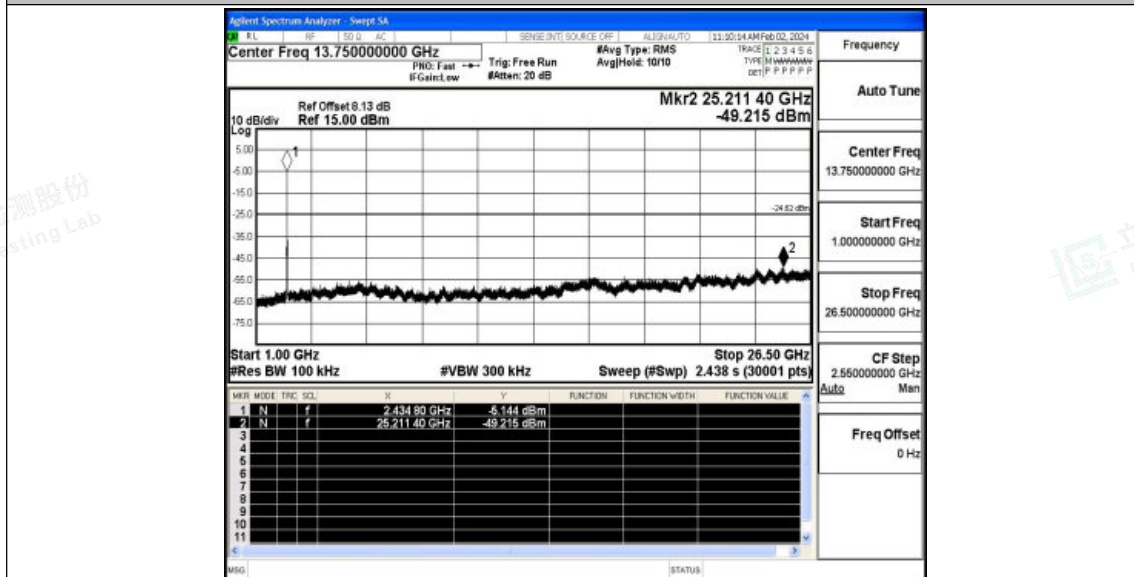
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20ISO_Ant1_2437_1000~26500



11N20ISO_Ant1_2462_30~1000

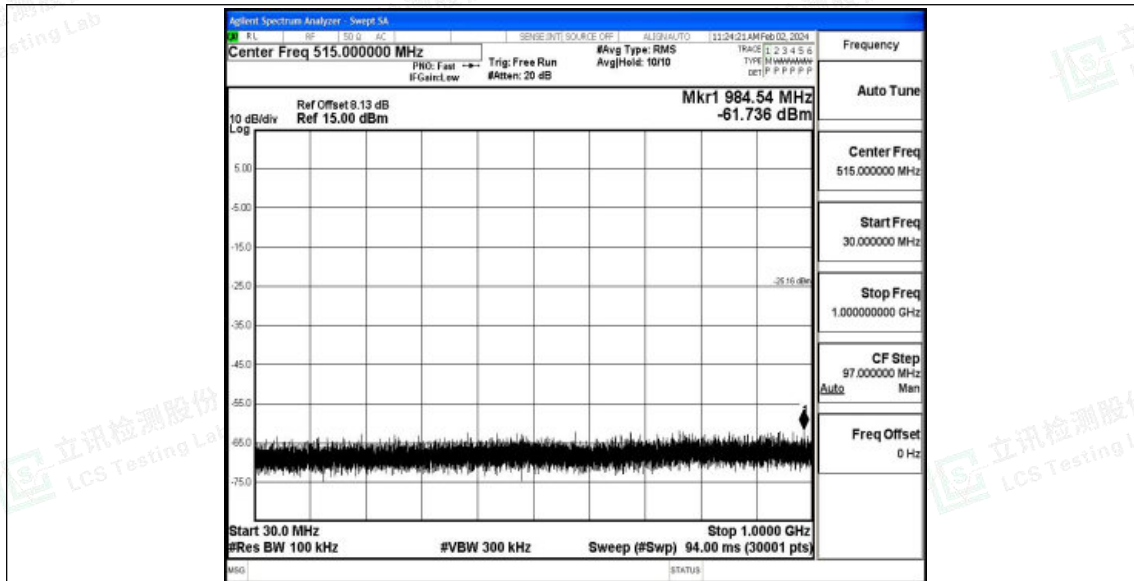


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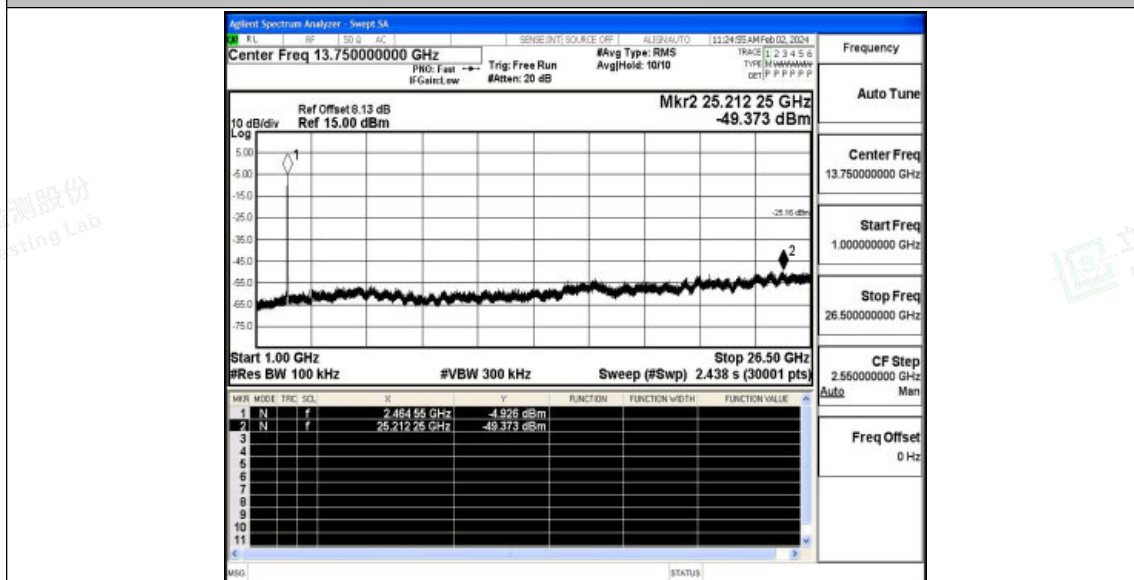
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11N20ISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_30~1000

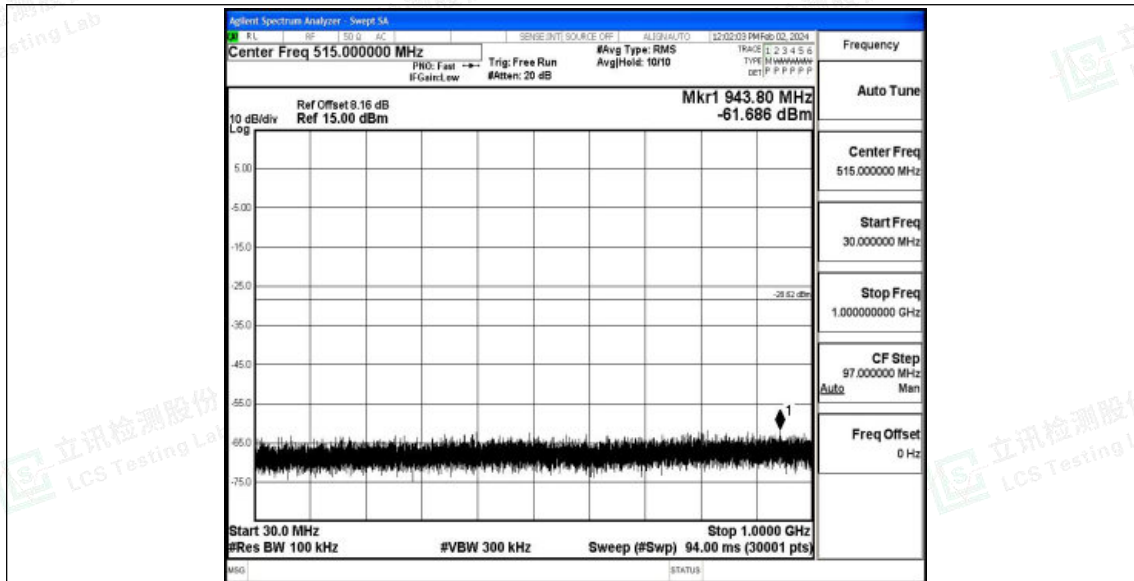


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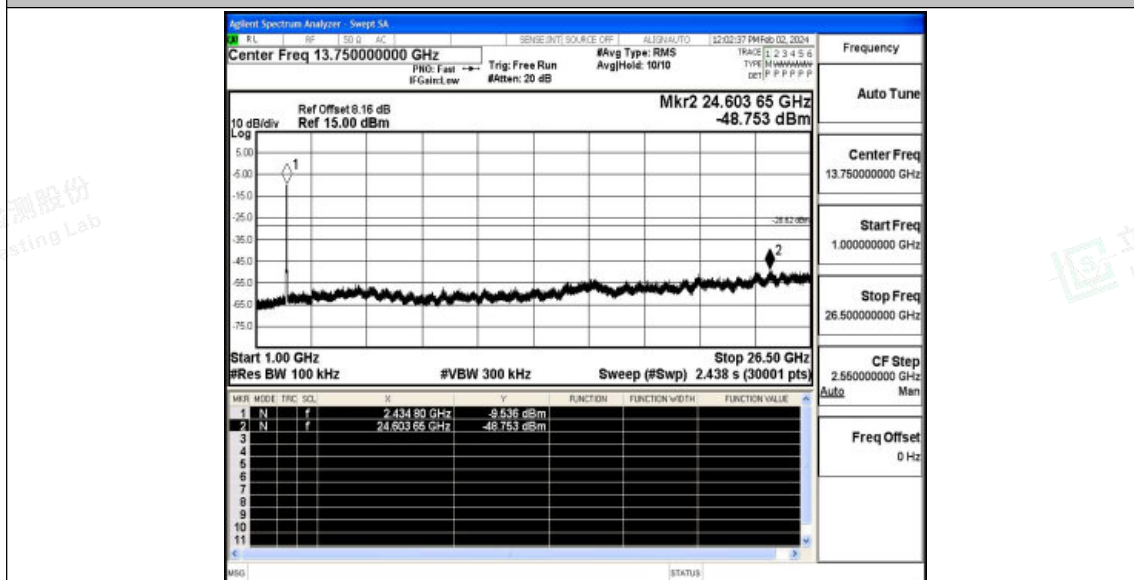
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000

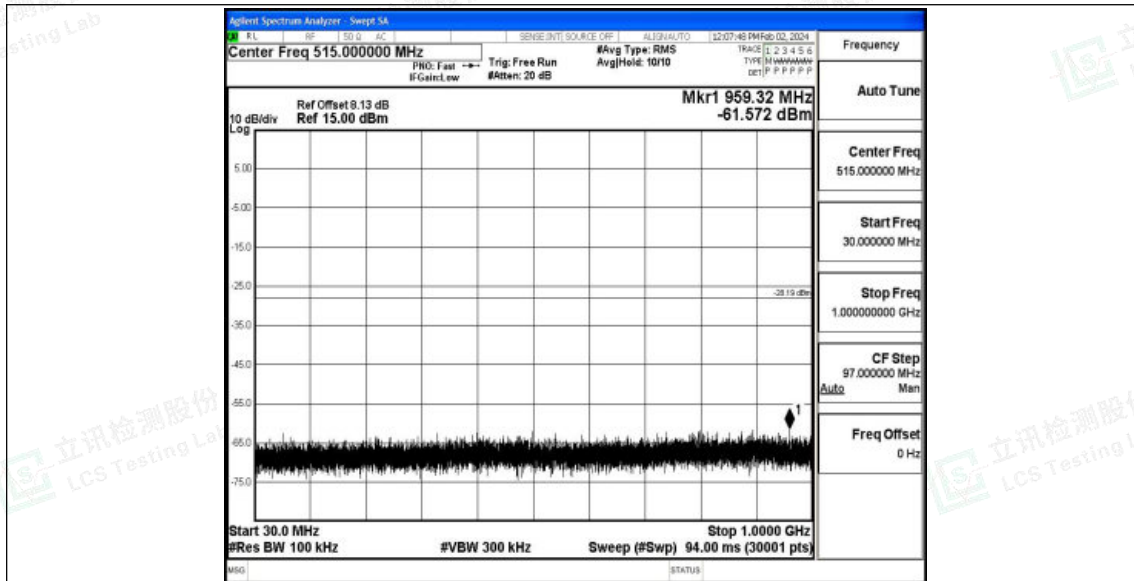


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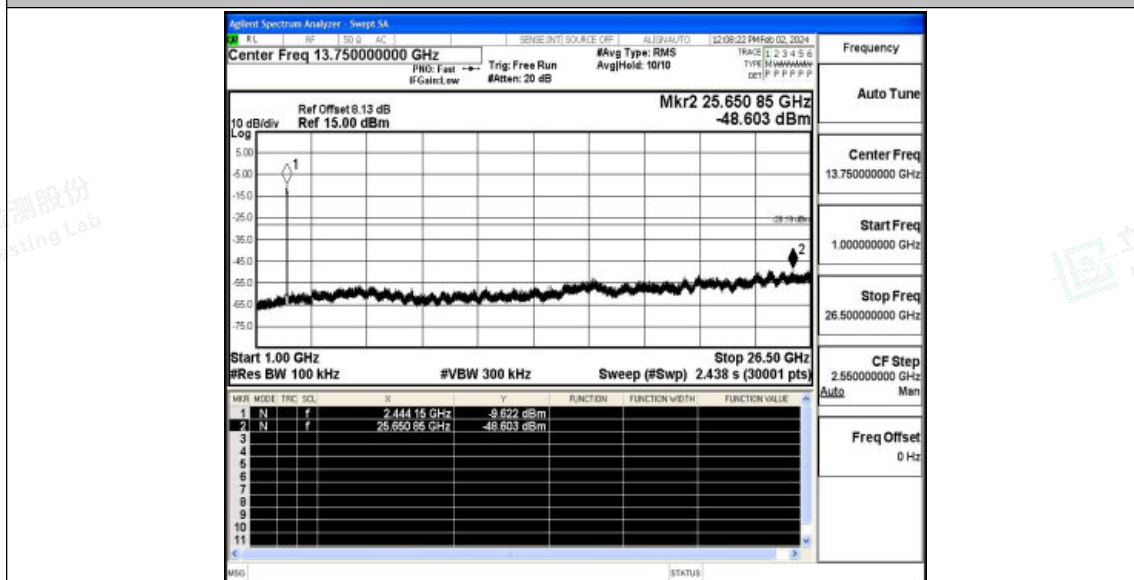
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

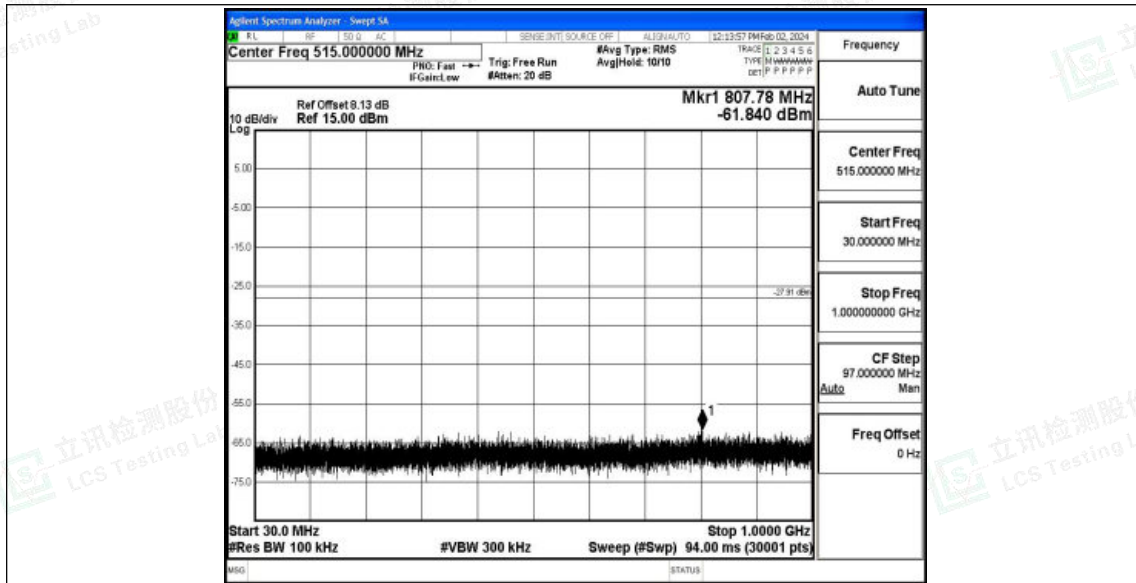


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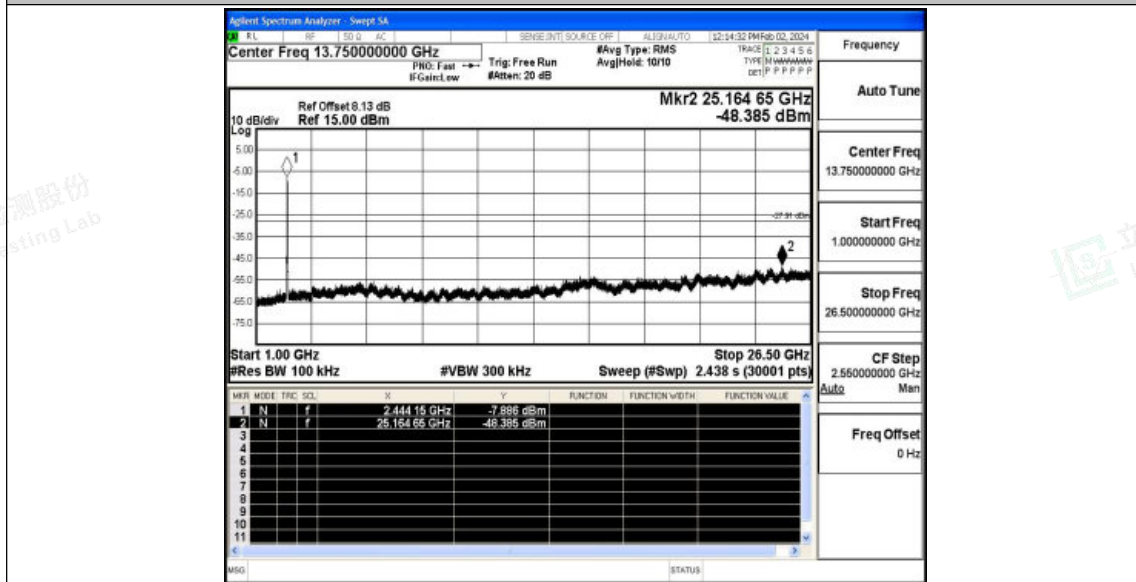
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11N40ISO_Ant1_2452_1000~26500



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B.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T Factor[kHz]	Verdict
11B	Ant1	2412	8.42	8.48	99.29	0.03	0.12	---
		2437	8.41	8.47	99.29	0.03	0.12	---
		2462	8.41	8.47	99.29	0.03	0.12	---
11G	Ant1	2412	1.39	1.46	95.21	0.21	0.72	---
		2437	1.39	1.46	95.21	0.21	0.72	---
		2462	1.39	1.46	95.21	0.21	0.72	---
11N20SISO	Ant1	2412	1.18	1.24	95.16	0.22	0.85	---
		2437	1.18	1.25	94.40	0.25	0.85	---
		2462	1.18	1.25	94.40	0.25	0.85	---
11N40SISO	Ant1	2422	0.59	0.65	90.77	0.42	1.69	---
		2437	0.59	0.65	90.77	0.42	1.69	---
		2452	0.58	0.65	89.23	0.49	1.72	---

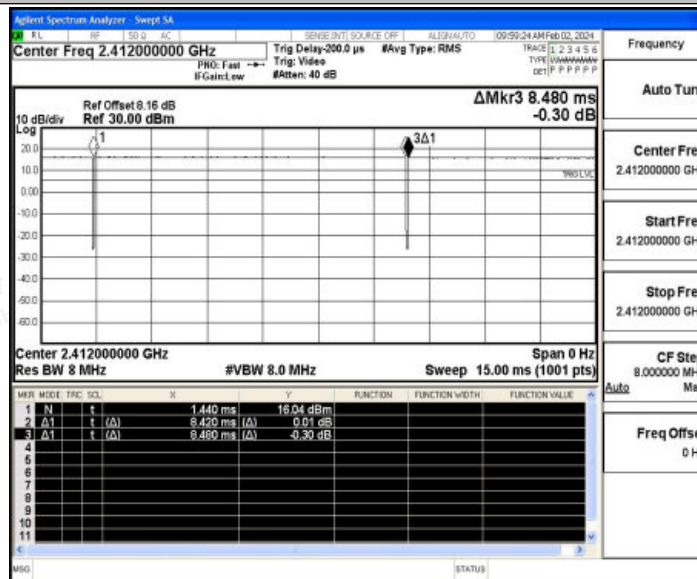


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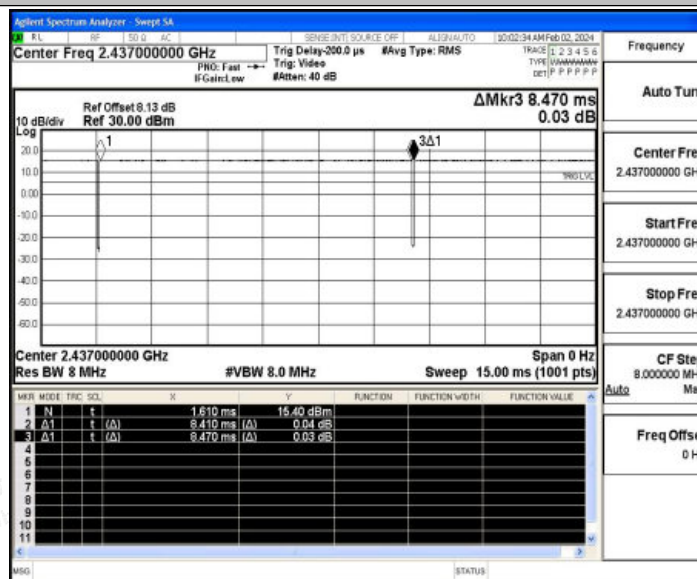


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

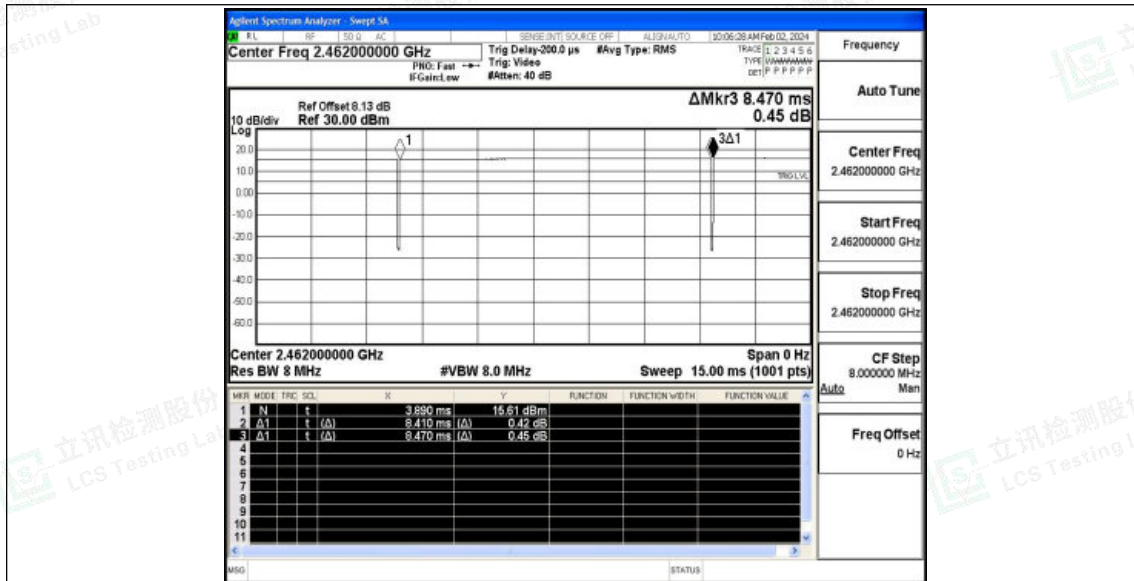


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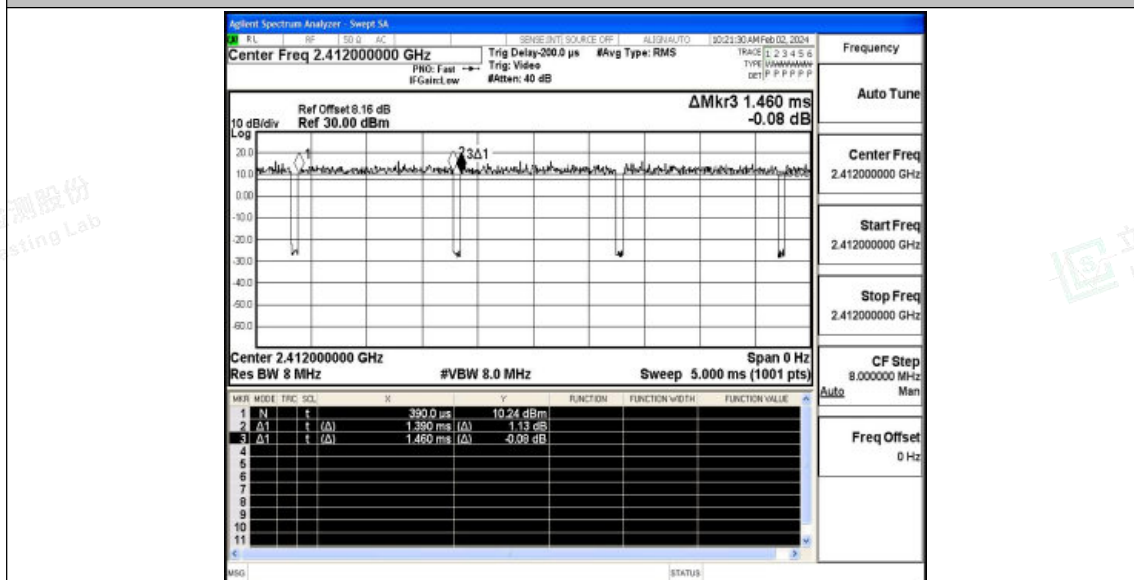
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

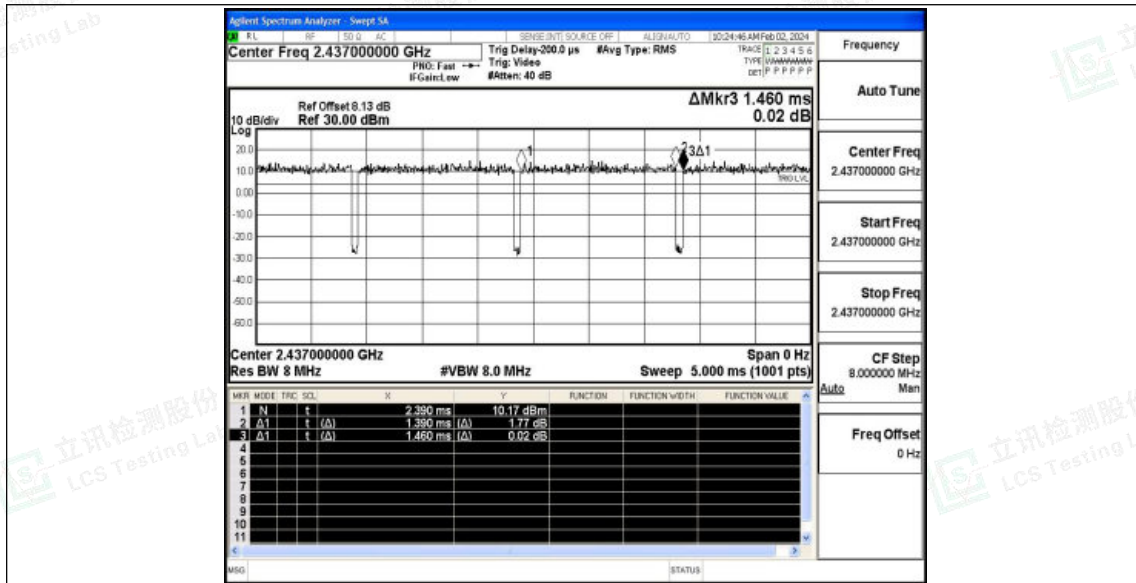


Shenzhen LCS Compliance Testing Laboratory Ltd.

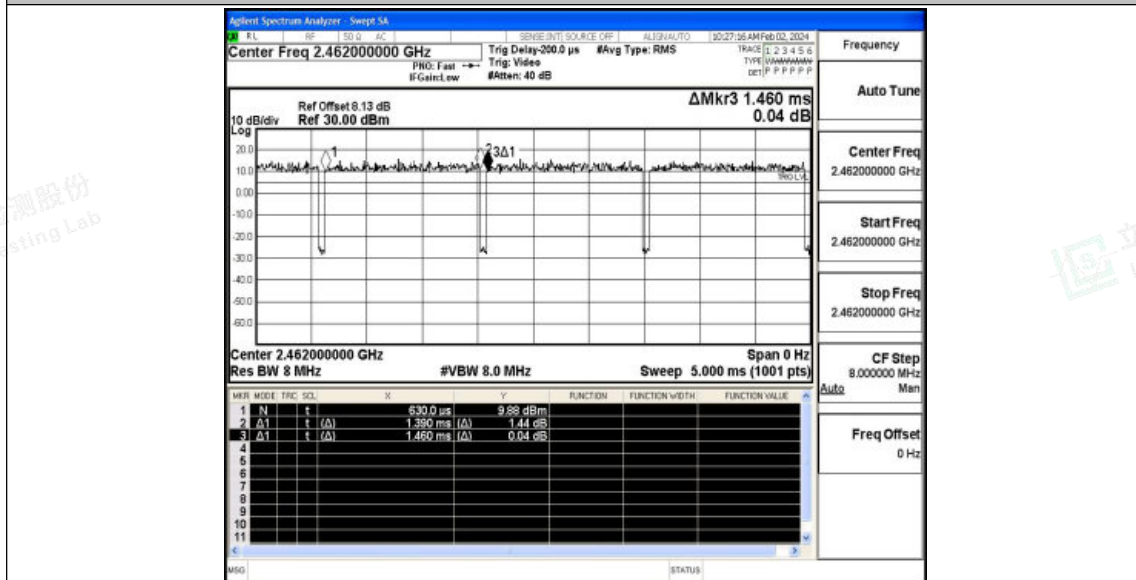
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

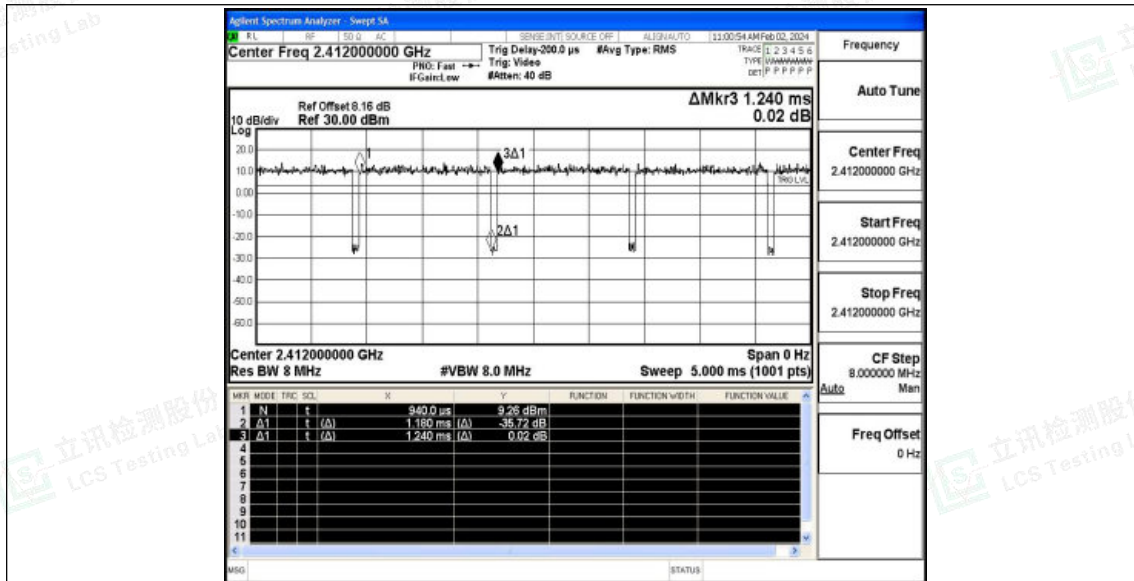


Shenzhen LCS Compliance Testing Laboratory Ltd.

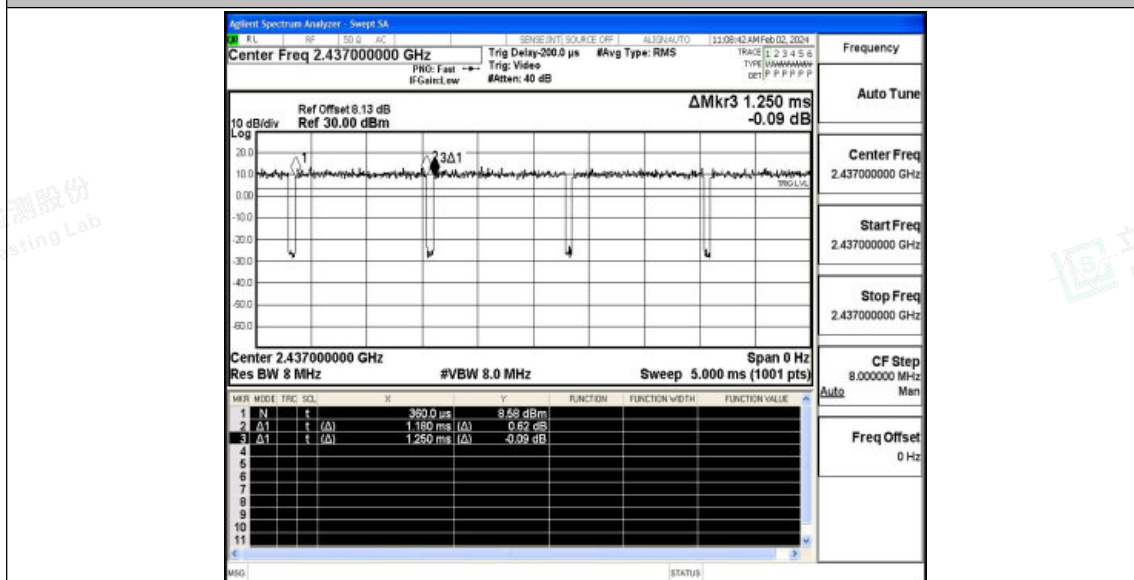
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

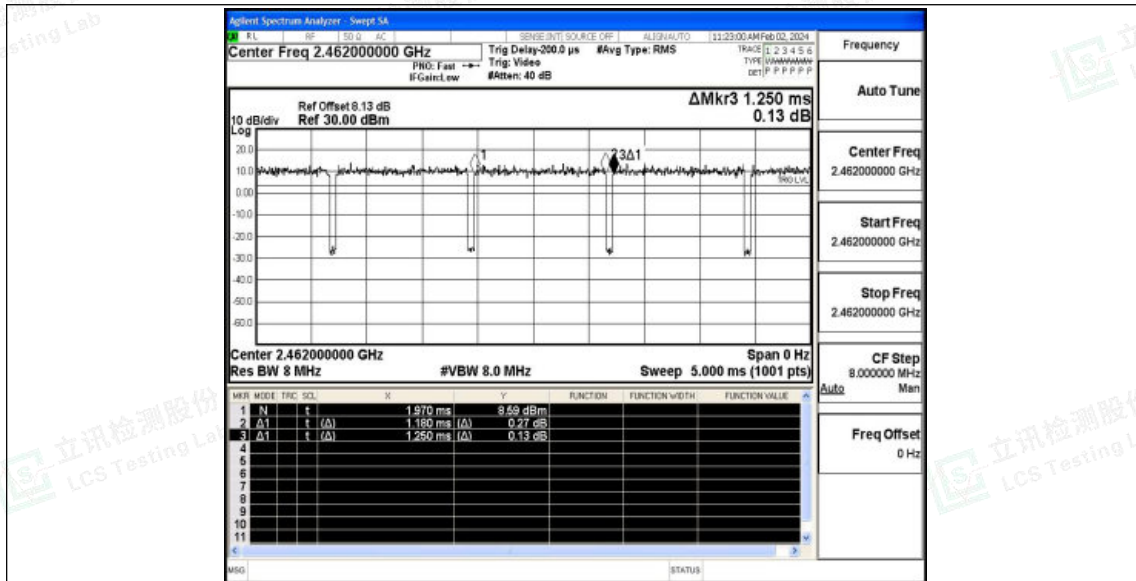


Shenzhen LCS Compliance Testing Laboratory Ltd.

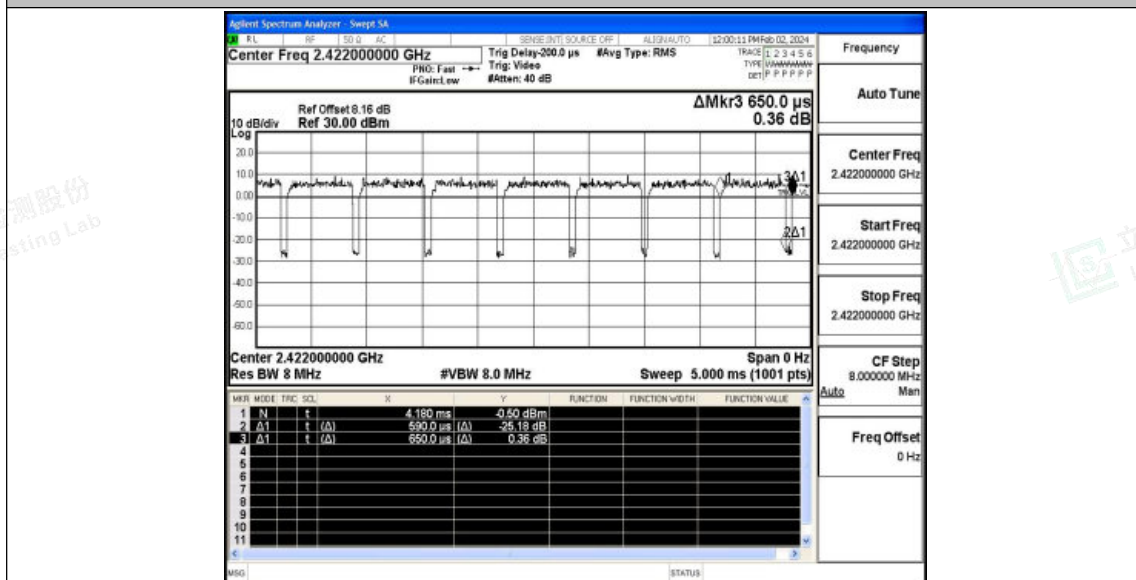
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

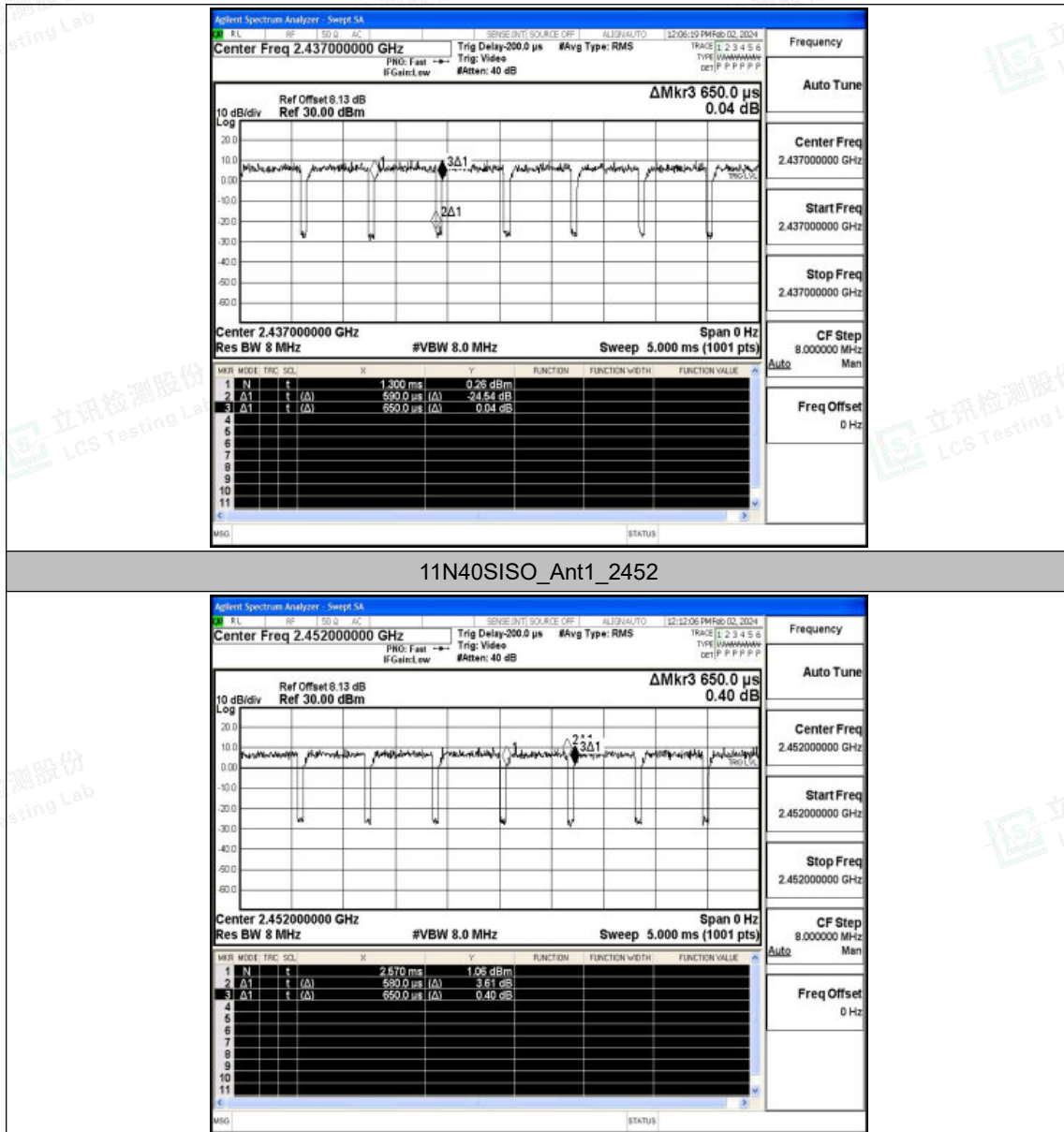


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B.7 Emissions in Restricted Bands

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	-50.26	≤-41.20	44.94	≤54	PASS
				AV	2389.700	-48.82	≤-41.20	46.38	≤54	PASS
				AV	2390.000	-49.36	≤-41.20	45.84	≤54	PASS
				Peak	2310.000	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2335.360	-38.4	≤-21.20	56.80	≤74	PASS
				Peak	2390.000	-41.93	≤-21.20	53.27	≤74	PASS
		High	2462	AV	2483.500	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2486.860	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2500.000	-48.97	≤-41.20	46.23	≤54	PASS
				Peak	2483.500	-39.84	≤-21.20	55.36	≤74	PASS
				Peak	2491.920	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	2500.000	-42.02	≤-21.20	53.18	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2388.790	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2390.000	-48.15	≤-41.20	47.05	≤54	PASS
				Peak	2310.000	-42.32	≤-21.20	52.88	≤74	PASS
				Peak	2389.830	-32.12	≤-21.20	63.08	≤74	PASS
				Peak	2390.000	-35.84	≤-21.20	59.36	≤74	PASS
		High	2462	AV	2483.500	-47.18	≤-41.20	48.02	≤54	PASS
				AV	2484.000	-45.8	≤-41.20	49.40	≤54	PASS
				AV	2500.000	-49.31	≤-41.20	45.89	≤54	PASS
				Peak	2483.500	-33.92	≤-21.20	61.28	≤74	PASS
				Peak	2483.670	-30.01	≤-21.20	65.19	≤74	PASS
				Peak	2500.000	-40.8	≤-21.20	54.40	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-50.19	≤-41.20	45.01	≤54	PASS
				AV	2389.310	-47.85	≤-41.20	47.35	≤54	PASS
				AV	2390.000	-48.17	≤-41.20	47.03	≤54	PASS
				Peak	2310.000	-40.34	≤-21.20	54.86	≤74	PASS
				Peak	2389.960	-35.83	≤-21.20	59.37	≤74	PASS
				Peak	2390.000	-35.83	≤-21.20	59.37	≤74	PASS
		High	2462	AV	2483.500	-44.74	≤-41.20	50.46	≤54	PASS
				AV	2483.560	-44.6	≤-41.20	50.60	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-32.2	≤-21.20	63.00	≤74	PASS



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11N40SIS O	Ant1			Peak	2484.110	-31.98	≤-21.20	63.22	≤74	PASS
				Peak	2500.000	-42.12	≤-21.20	53.08	≤74	PASS
		Low	2422	AV	2310.000	-49.47	≤-41.20	45.73	≤54	PASS
				AV	2389.960	-46.99	≤-41.20	48.21	≤54	PASS
				AV	2390.000	-47	≤-41.20	48.20	≤54	PASS
				Peak	2310.000	-42.66	≤-21.20	52.54	≤74	PASS
				Peak	2389.960	-33	≤-21.20	62.20	≤74	PASS
				Peak	2390.000	-33	≤-21.20	62.20	≤74	PASS
		High	2452	AV	2483.500	-43.48	≤-41.20	51.72	≤54	PASS
				AV	2483.890	-45.32	≤-41.20	49.88	≤54	PASS
				AV	2500.000	-49.6	≤-41.20	45.60	≤54	PASS
				Peak	2483.500	-34.9	≤-21.20	60.30	≤74	PASS
				Peak	2484.660	-28.28	≤-21.20	66.92	≤74	PASS
				Peak	2500.000	-41.23	≤-21.20	53.97	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor 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.

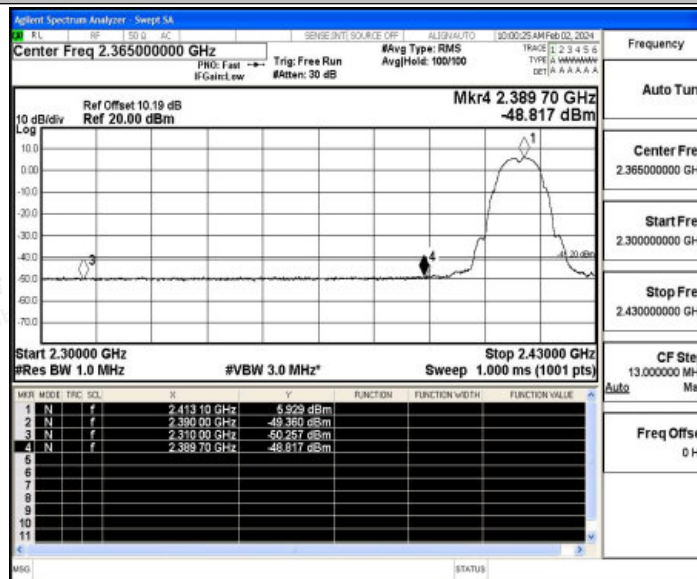


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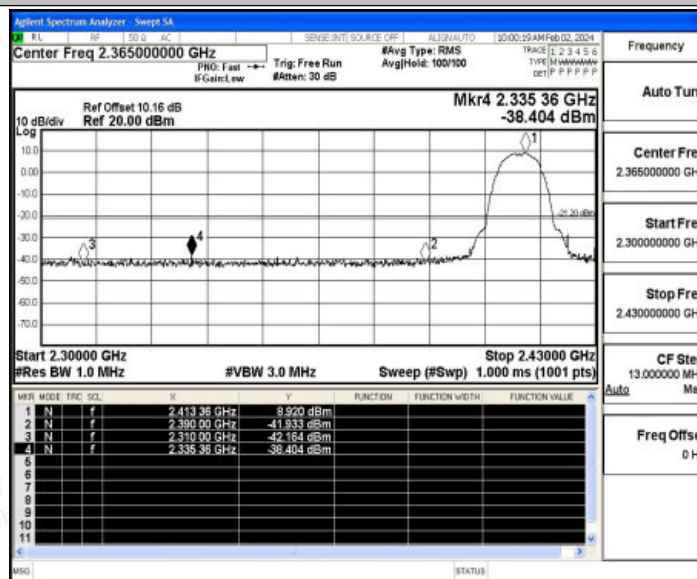


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

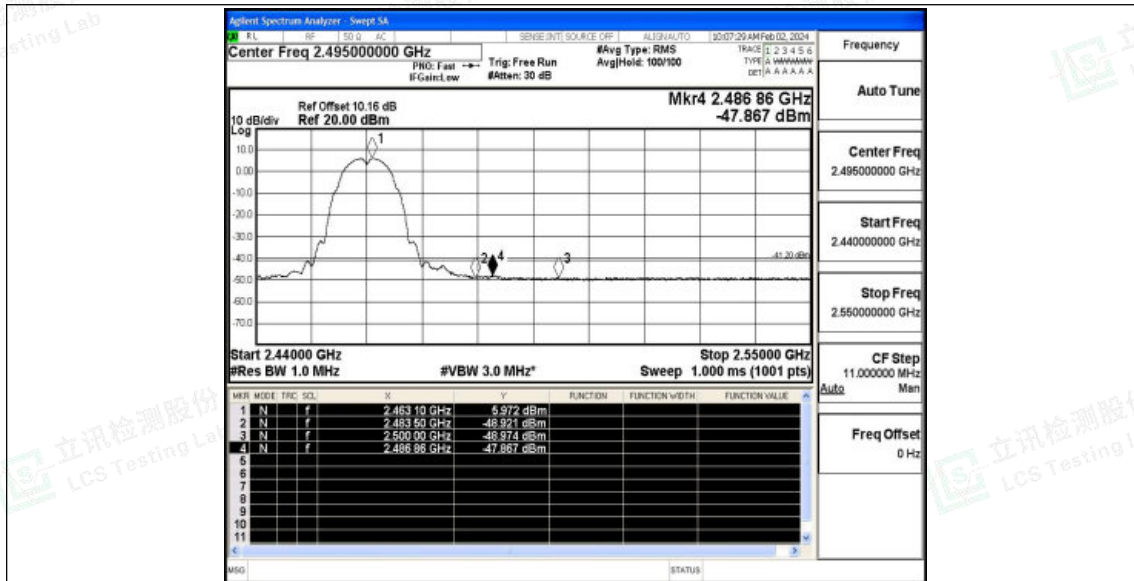


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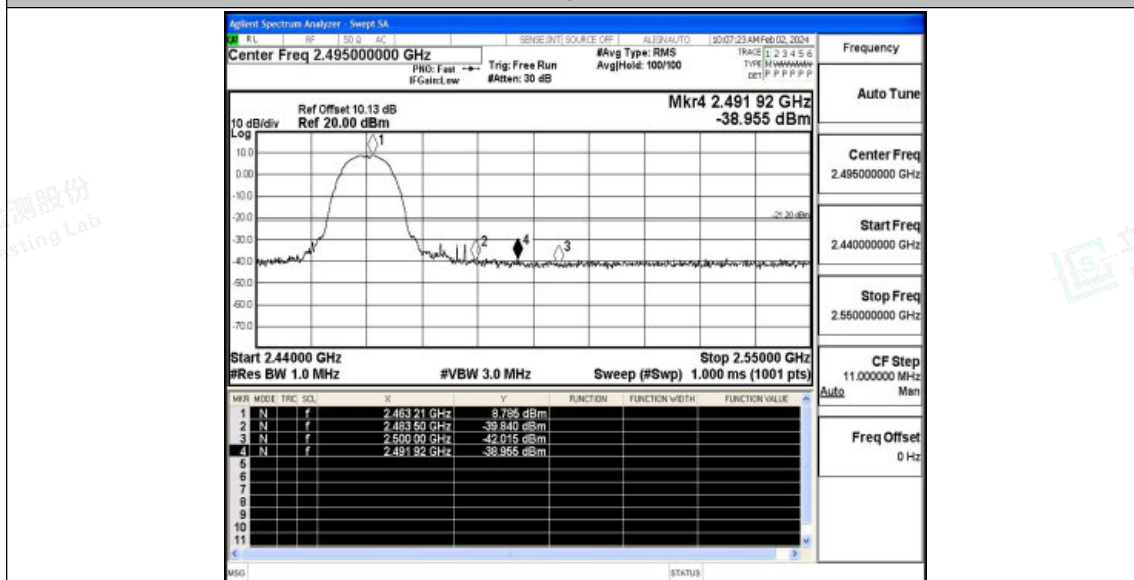
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

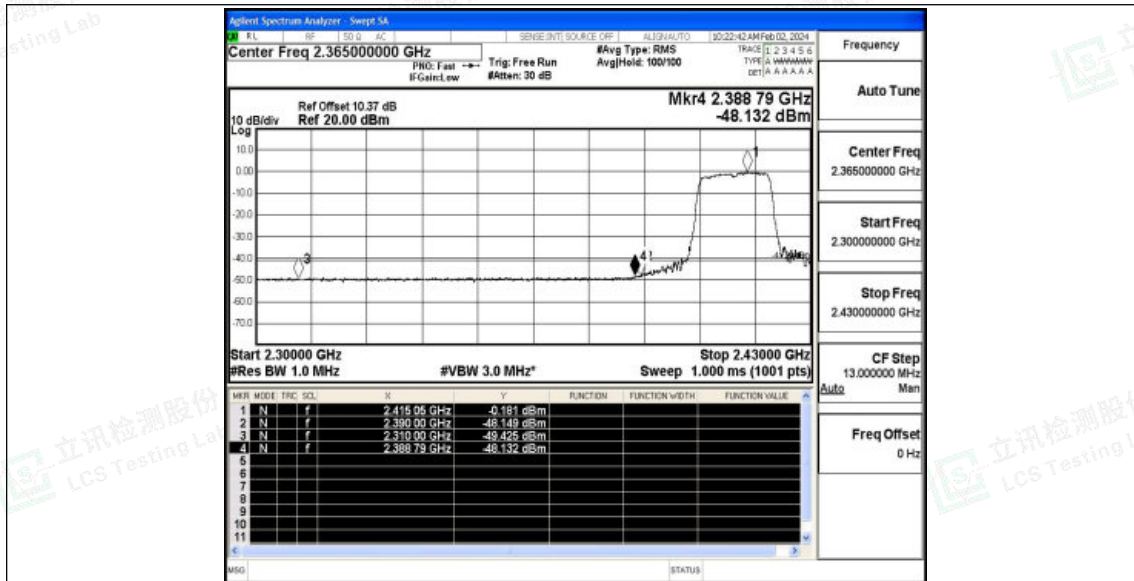


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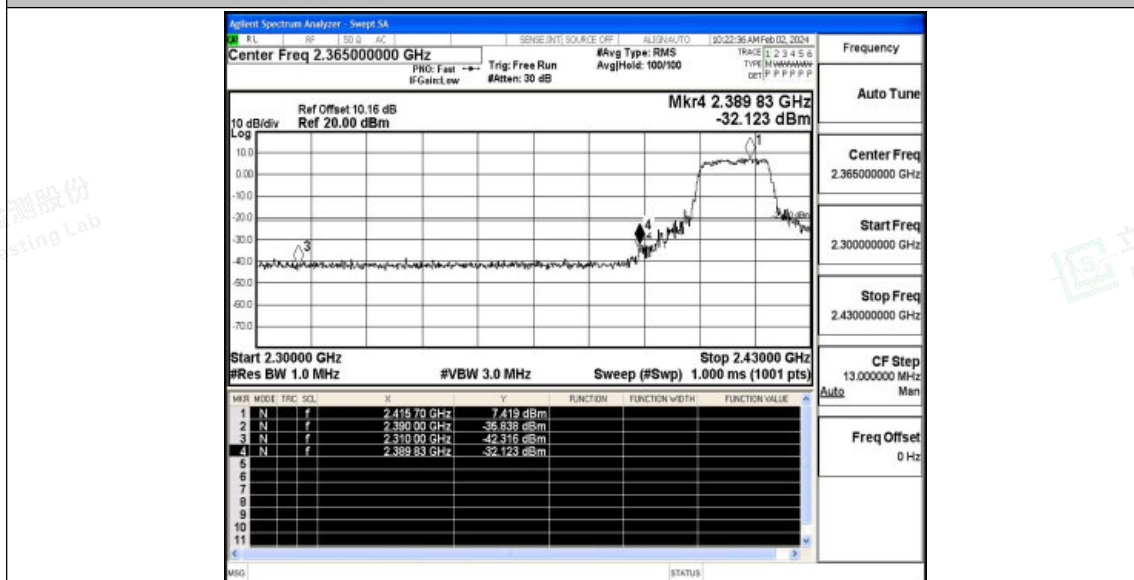
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

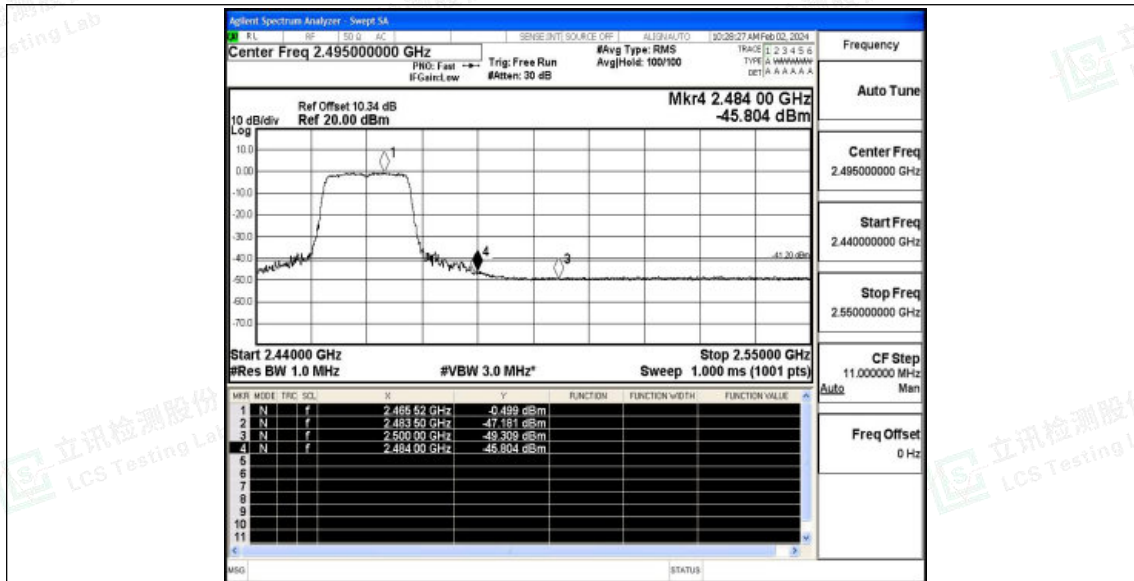


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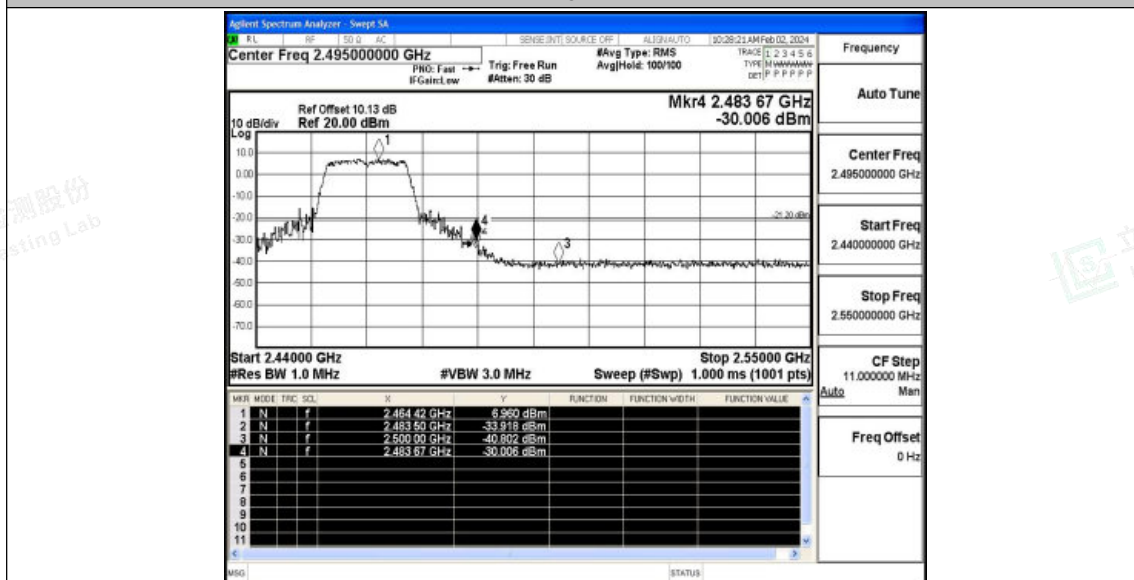
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

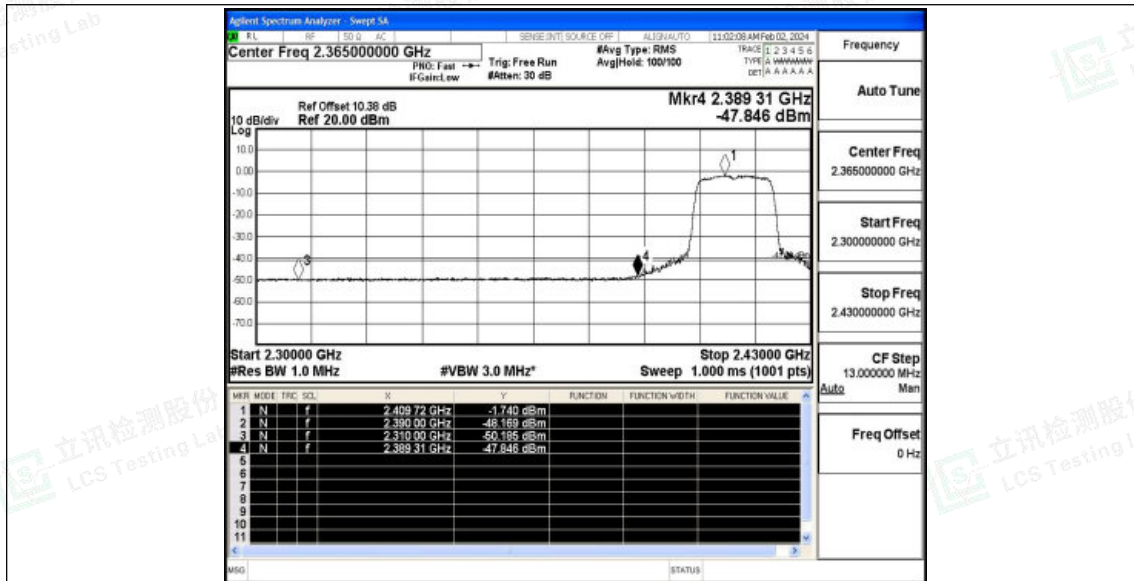


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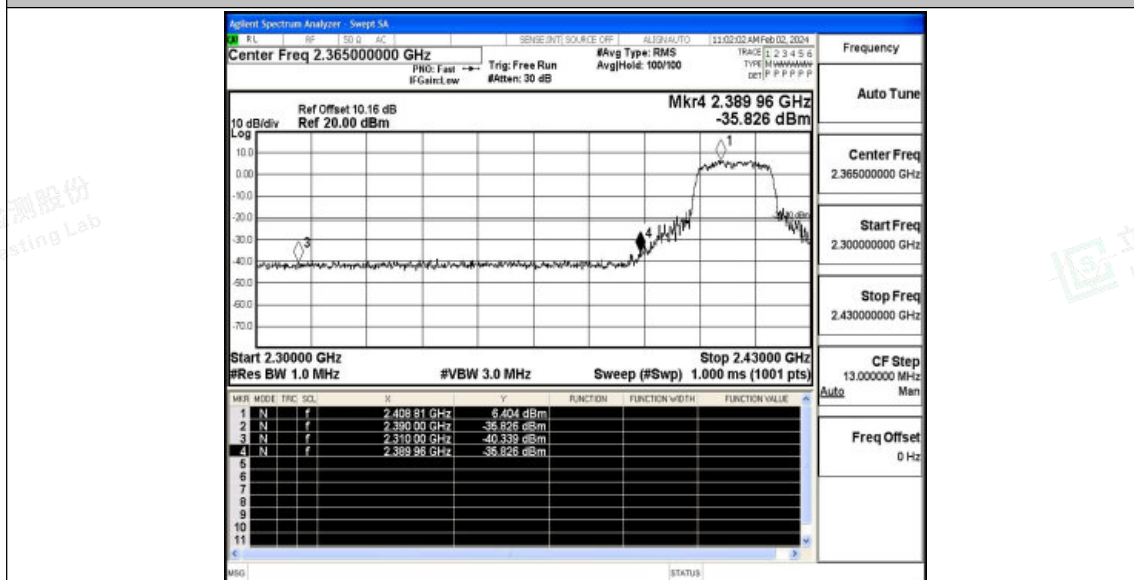
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

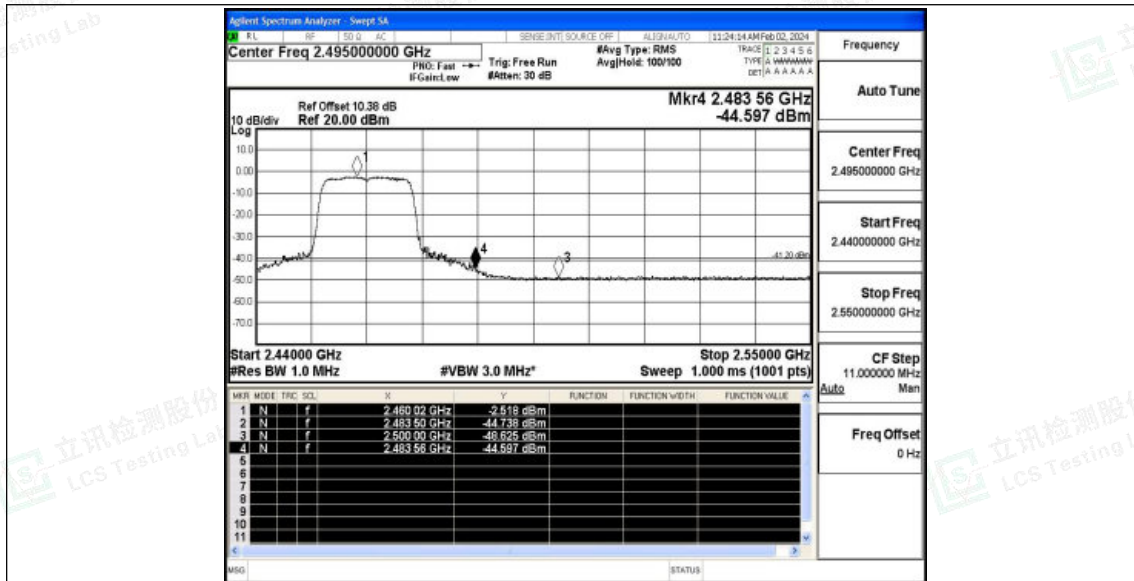


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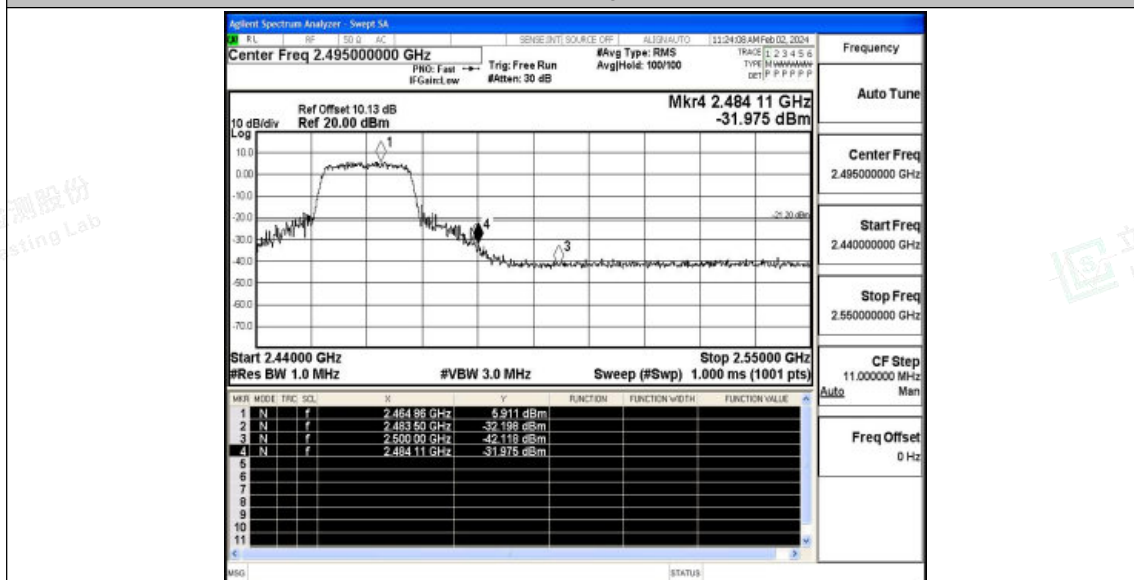
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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

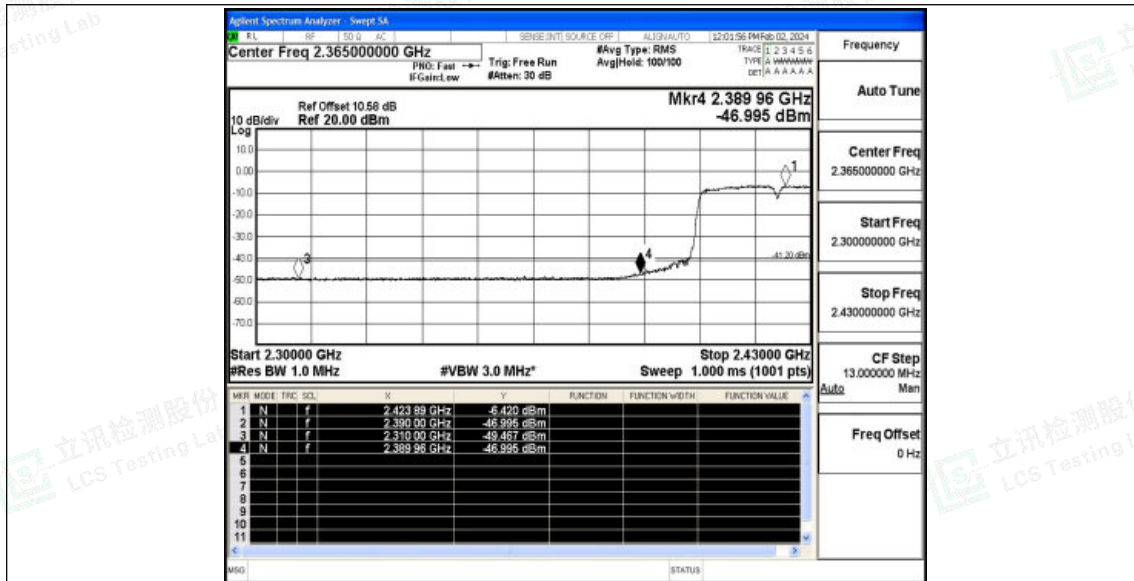


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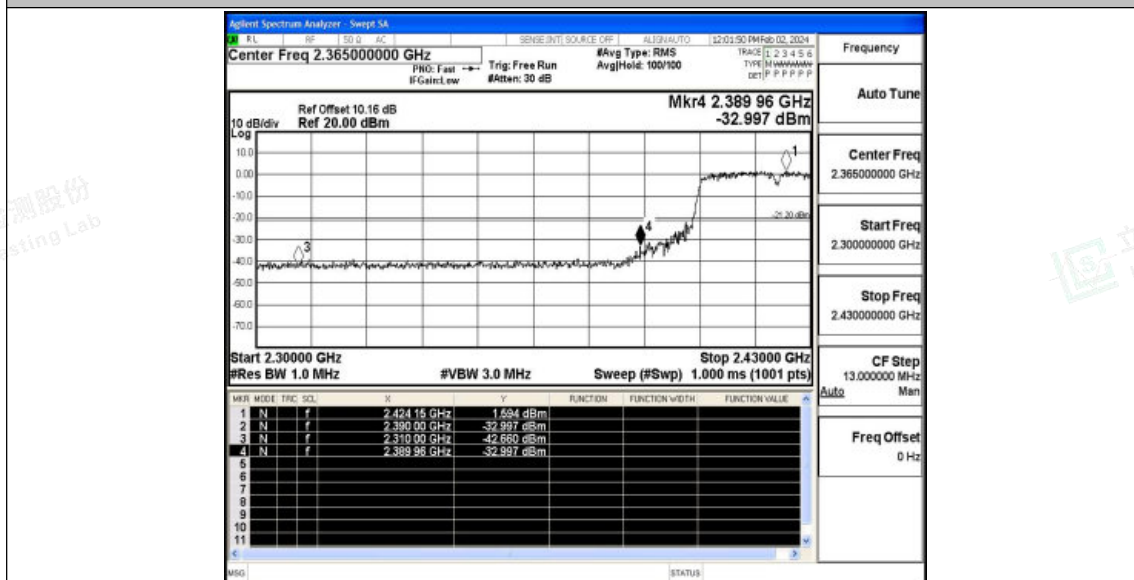
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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

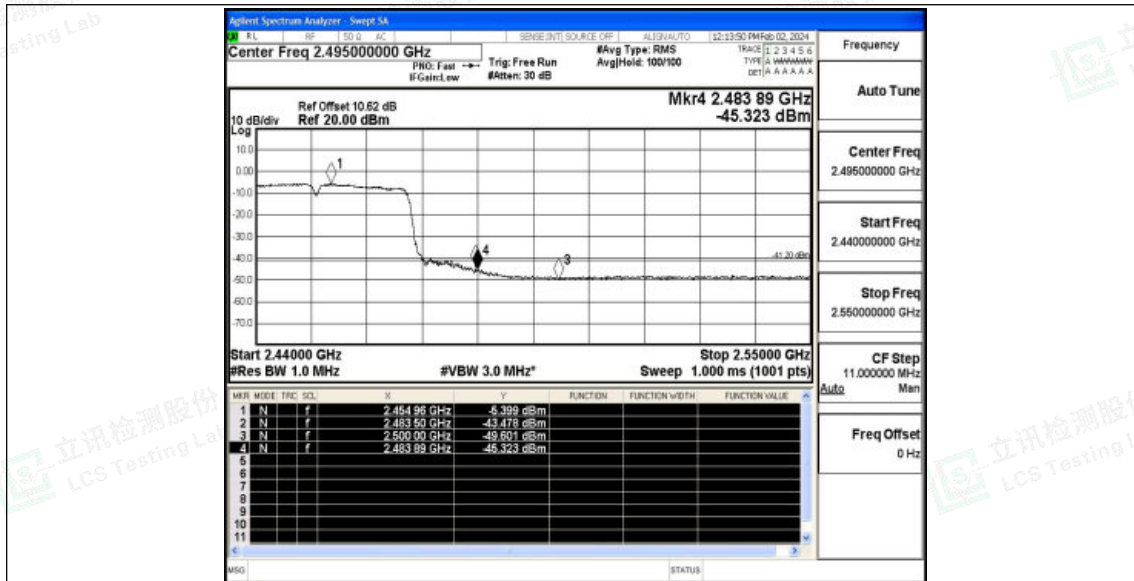


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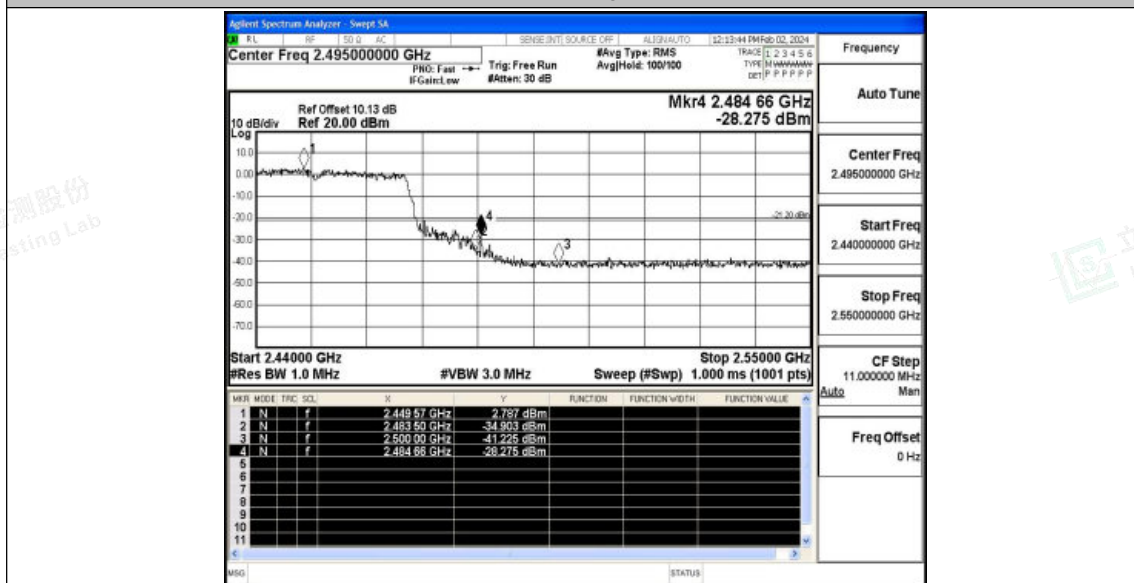
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11N40SISO_Ant1_High_2452_Peak



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