



Appendix B

RF Test Data for 2.4G(Conducted Measurement)

Product Name: Intelligent walking machine

Test Model: BA02

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Li Huan



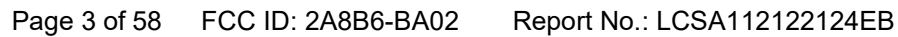


B.1 DTS Bandwidth

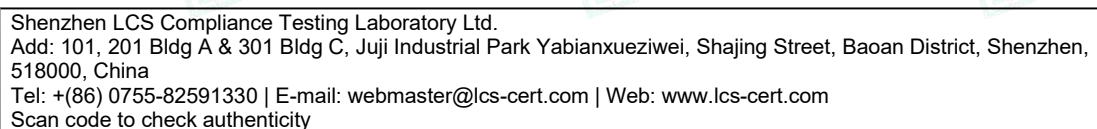
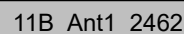
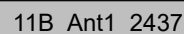
Test Result

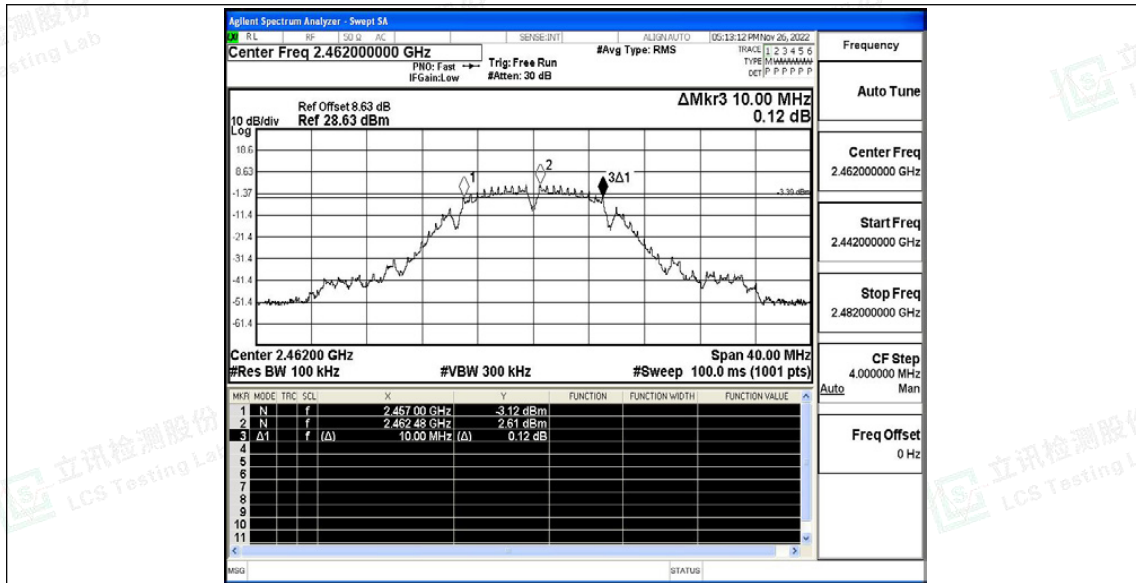
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.520	2432.440	2441.960	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	36.000	2419.160	2455.160	0.5	PASS
		2452	35.600	2434.240	2469.840	0.5	PASS



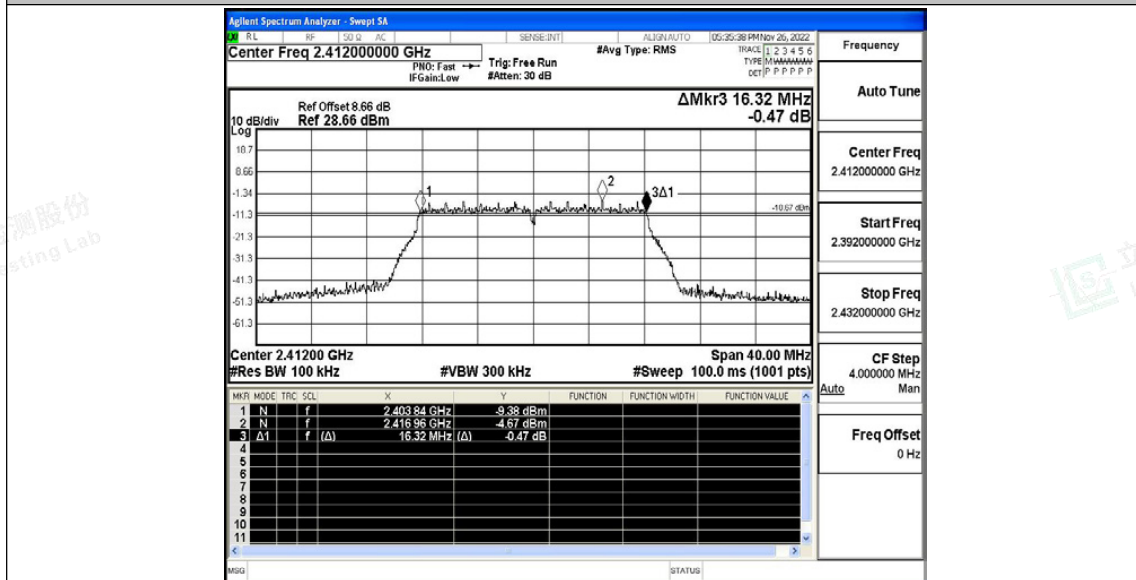


11B_Ant1_2412



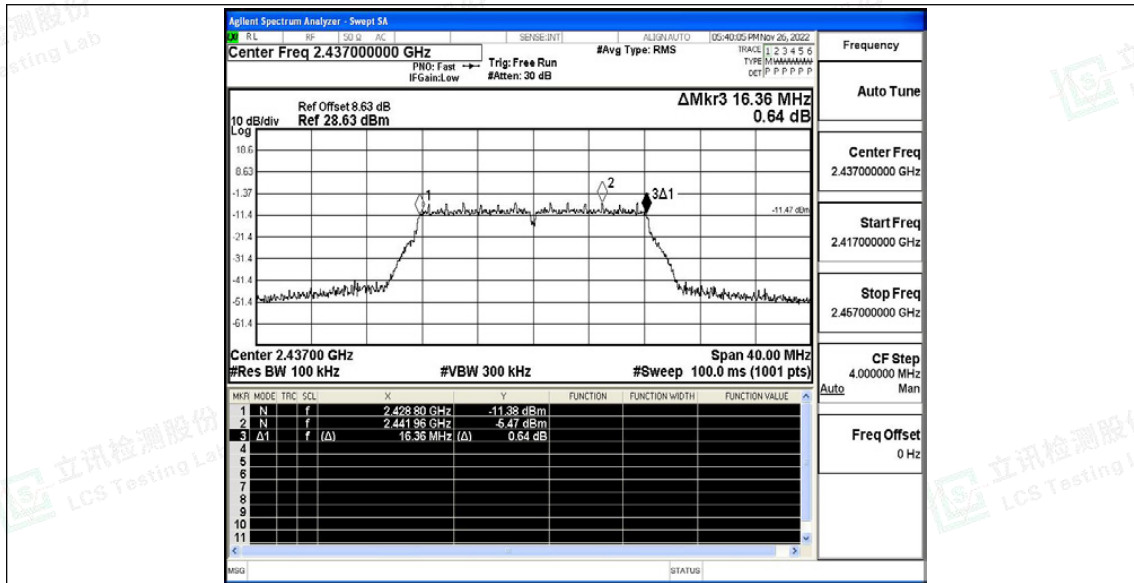


11G_Ant1_2412

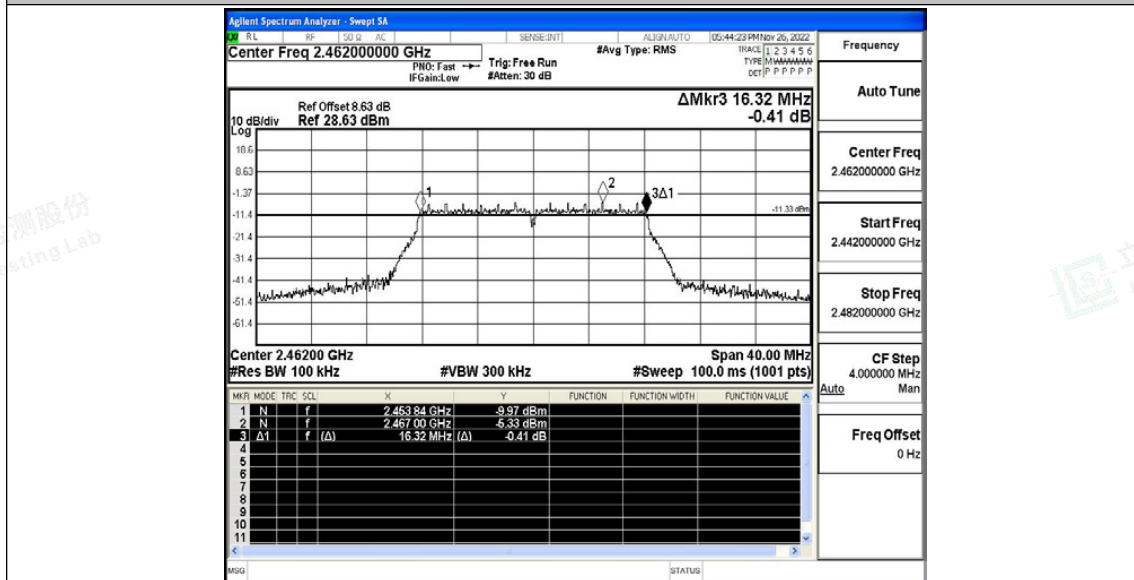


11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412

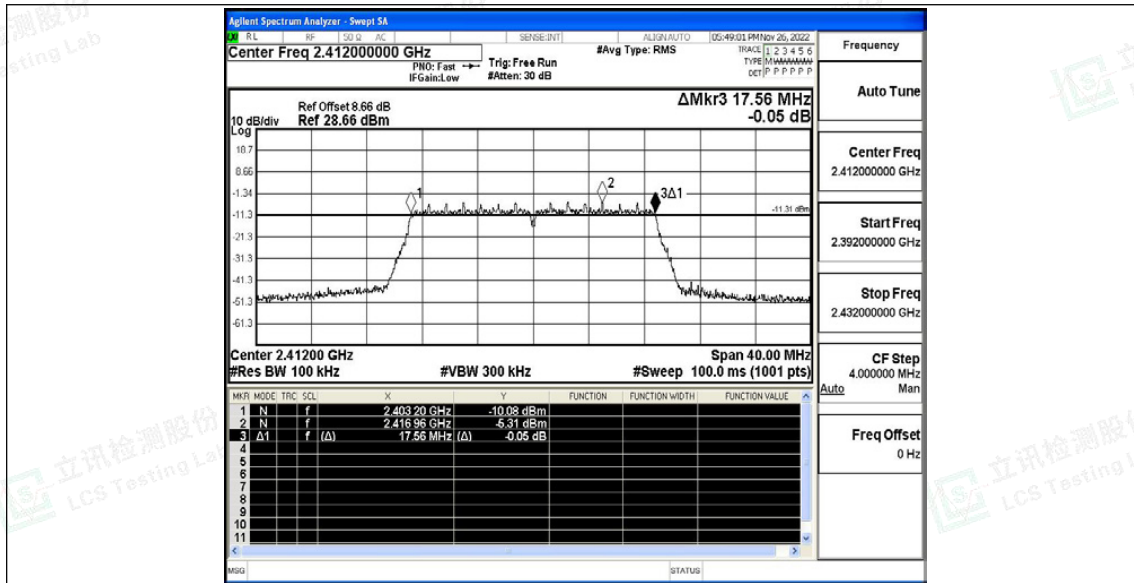


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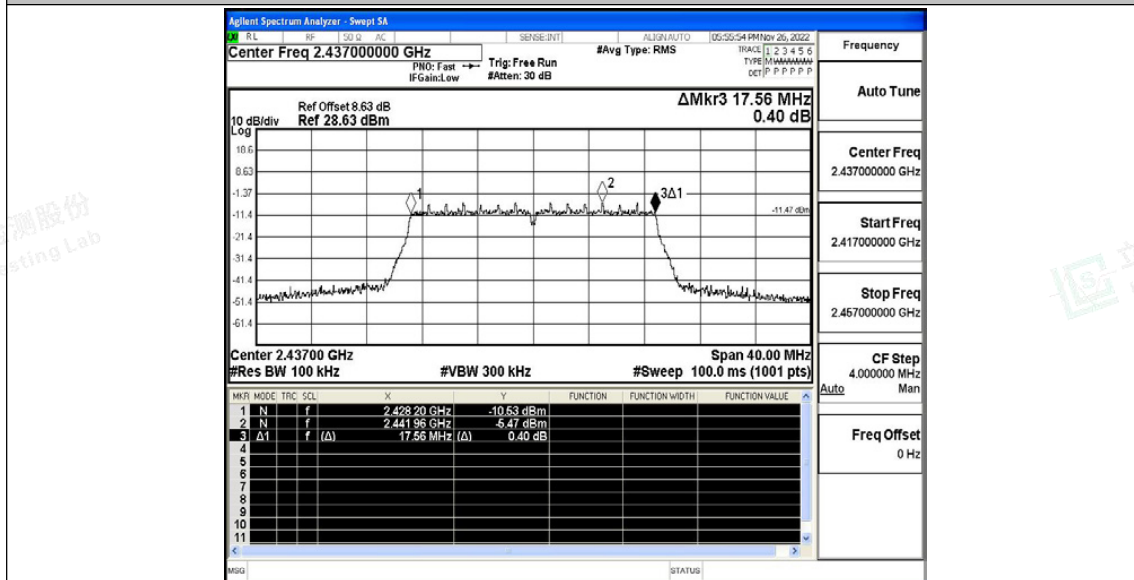
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

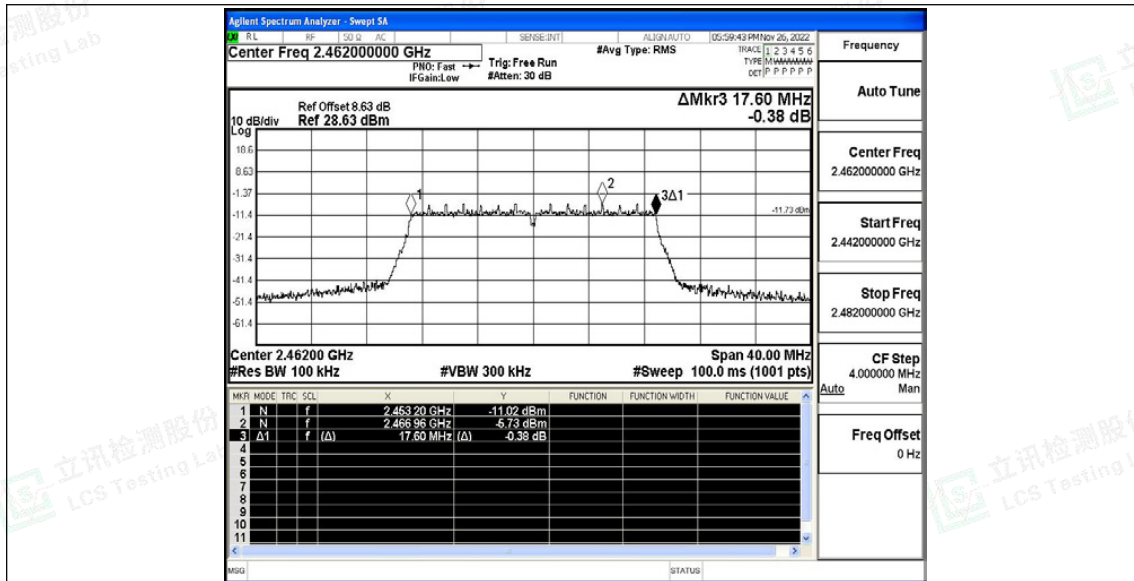


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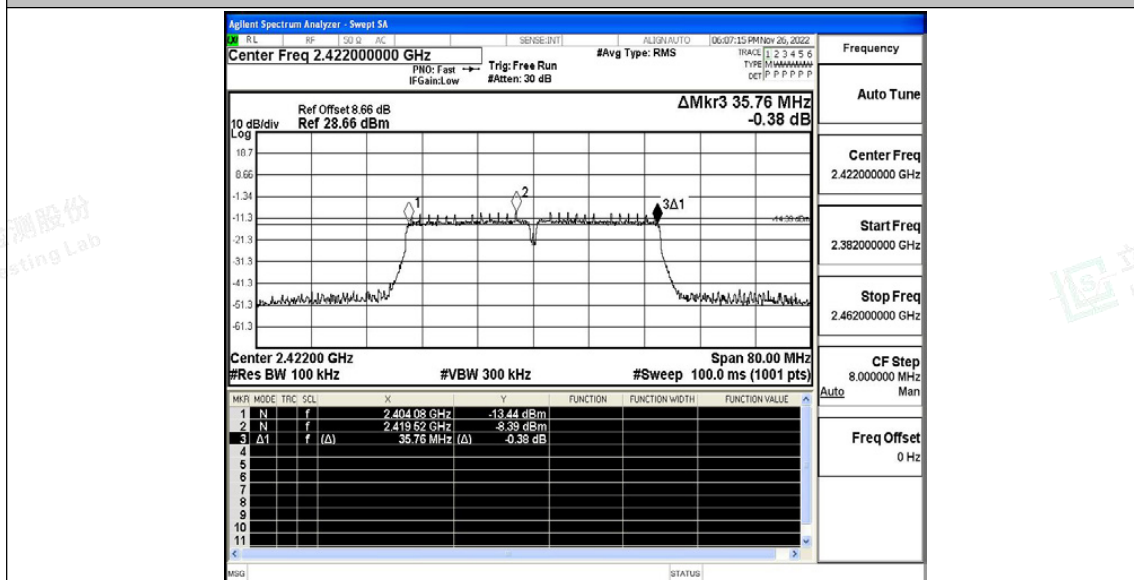
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

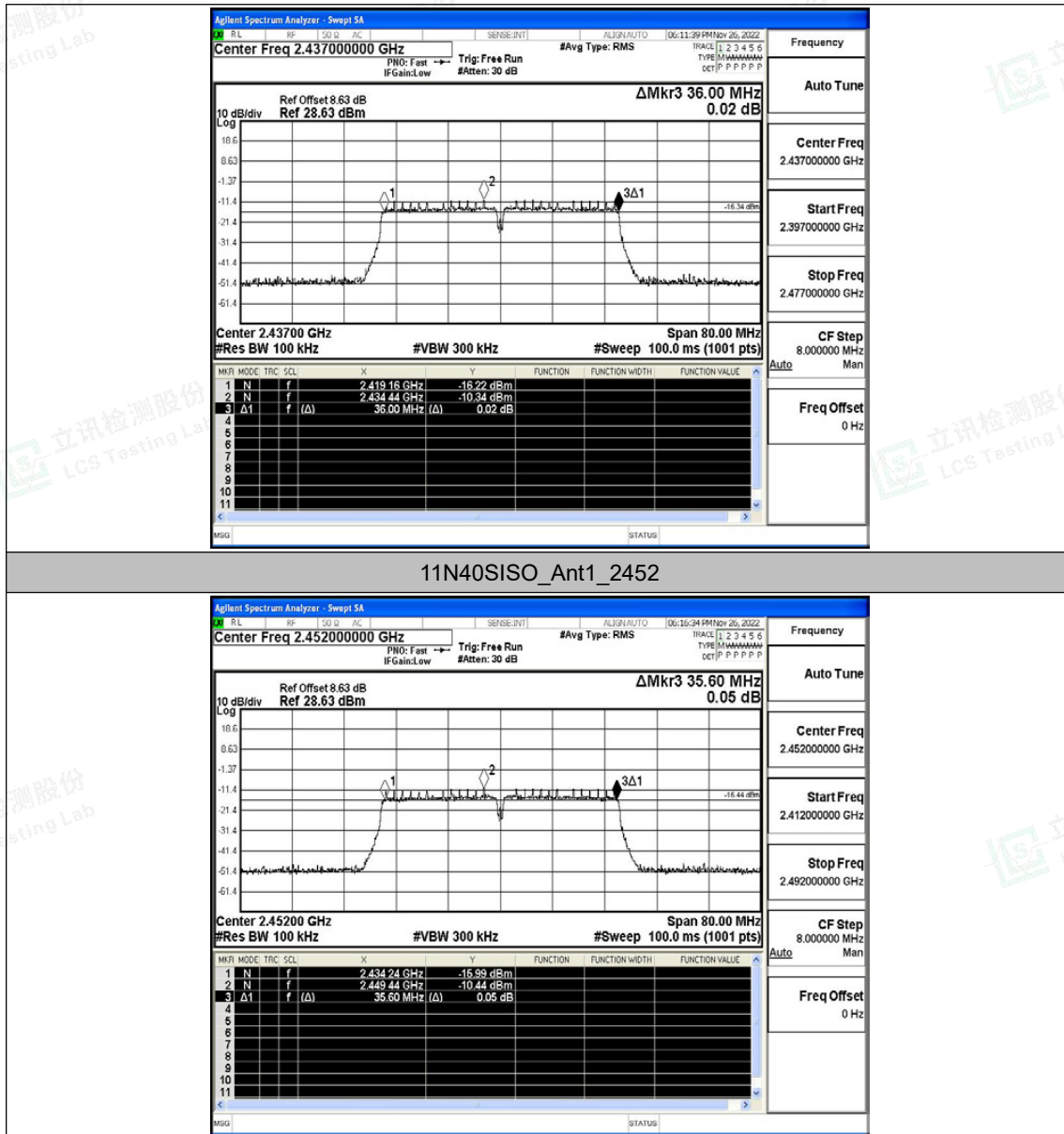


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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.40	≤30.00	PASS
		2437	15.16	≤30.00	PASS
		2462	14.66	≤30.00	PASS
11G	Ant1	2412	14.84	≤30.00	PASS
		2437	14.01	≤30.00	PASS
		2462	14.17	≤30.00	PASS
11N20SISO	Ant1	2412	14.28	≤30.00	PASS
		2437	14.02	≤30.00	PASS
		2462	13.70	≤30.00	PASS
11N40SISO	Ant1	2422	12.28	≤30.00	PASS
		2437	12.08	≤30.00	PASS
		2452	11.88	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.59	≤8.00	PASS
		2437	-11.17	≤8.00	PASS
		2462	-12.56	≤8.00	PASS
11G	Ant1	2412	-19.13	≤8.00	PASS
		2437	-19.7	≤8.00	PASS
		2462	-20.07	≤8.00	PASS
11N20SISO	Ant1	2412	-19.56	≤8.00	PASS
		2437	-19.91	≤8.00	PASS
		2462	-20.79	≤8.00	PASS
11N40SISO	Ant1	2422	-24.38	≤8.00	PASS
		2437	-24.5	≤8.00	PASS
		2452	-24.2	≤8.00	PASS



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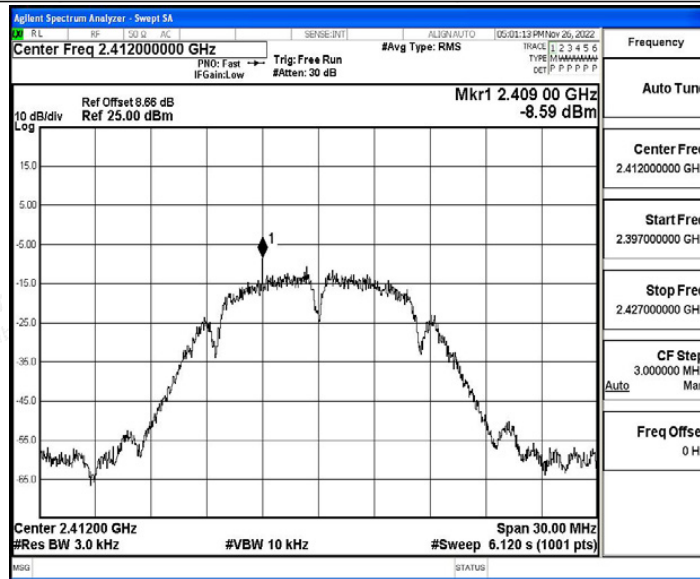
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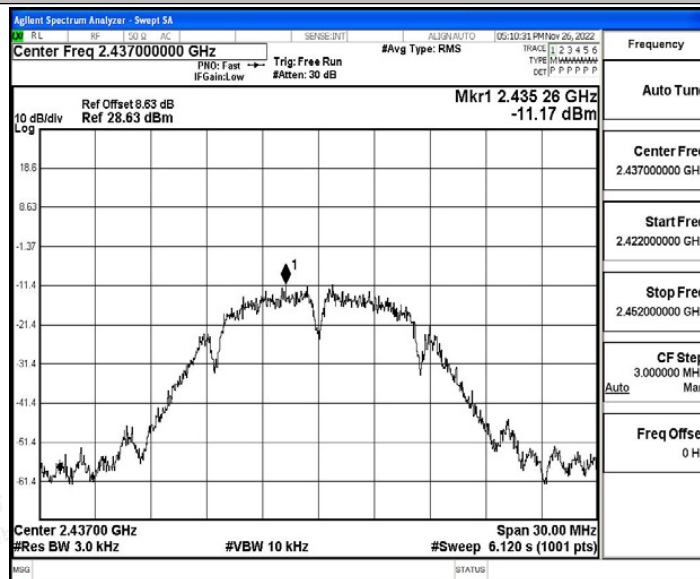


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

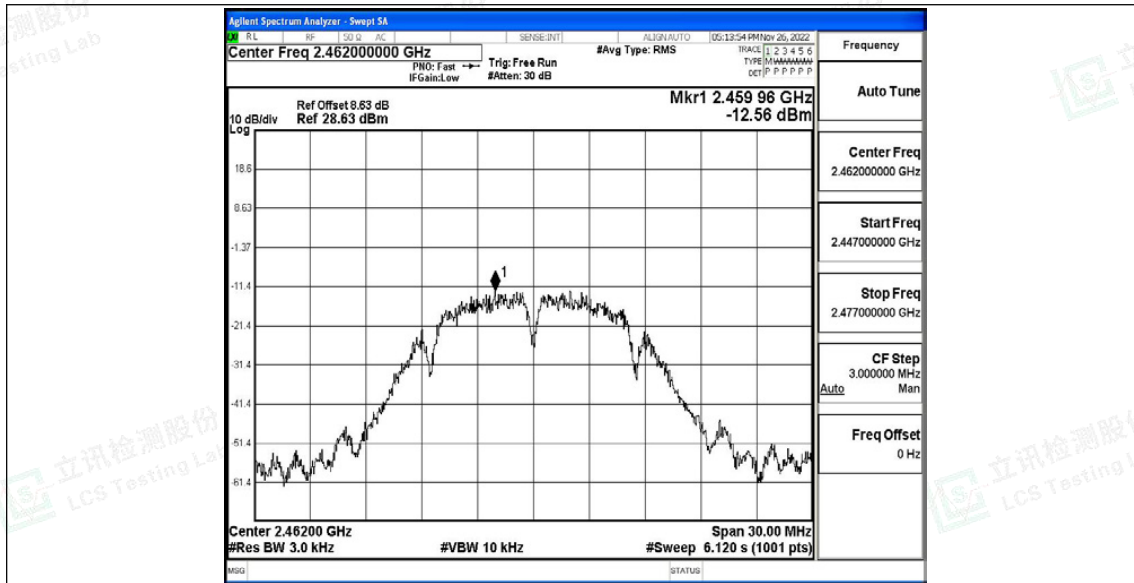


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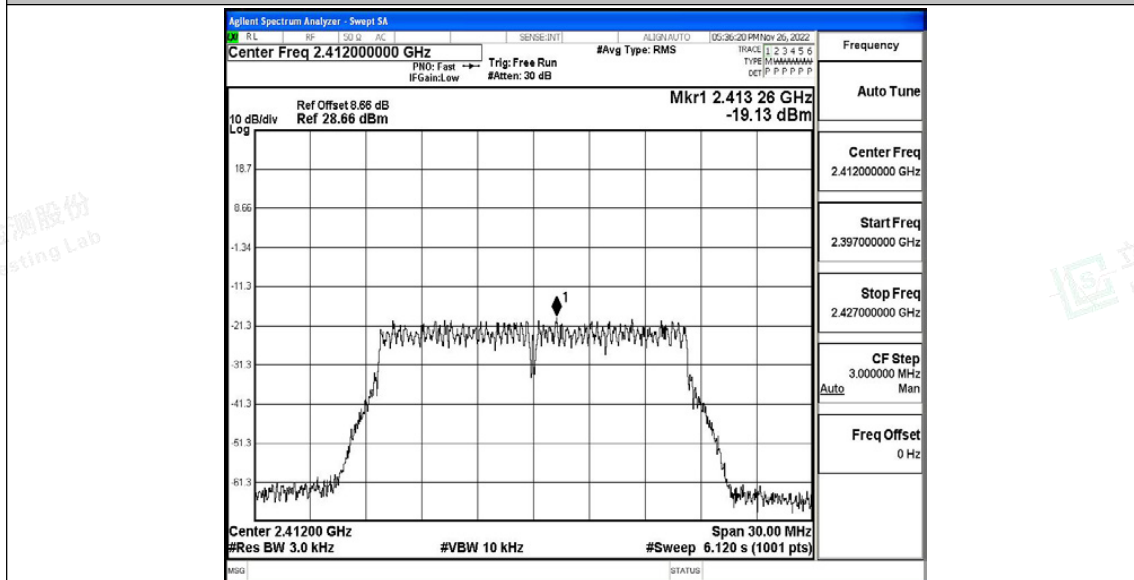
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11G_Ant1_2412



11G_Ant1_2437

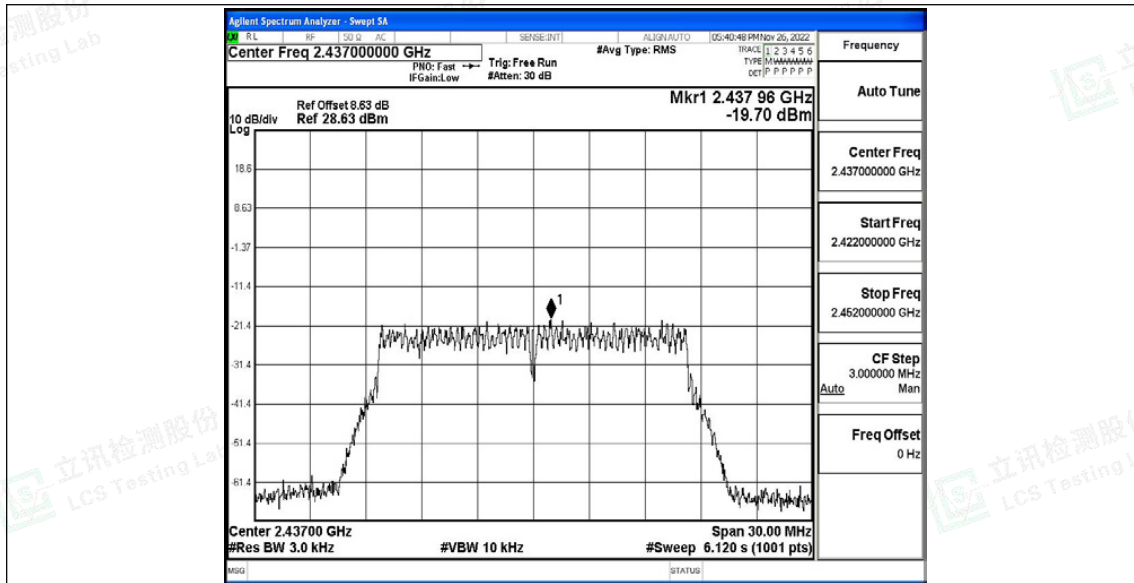


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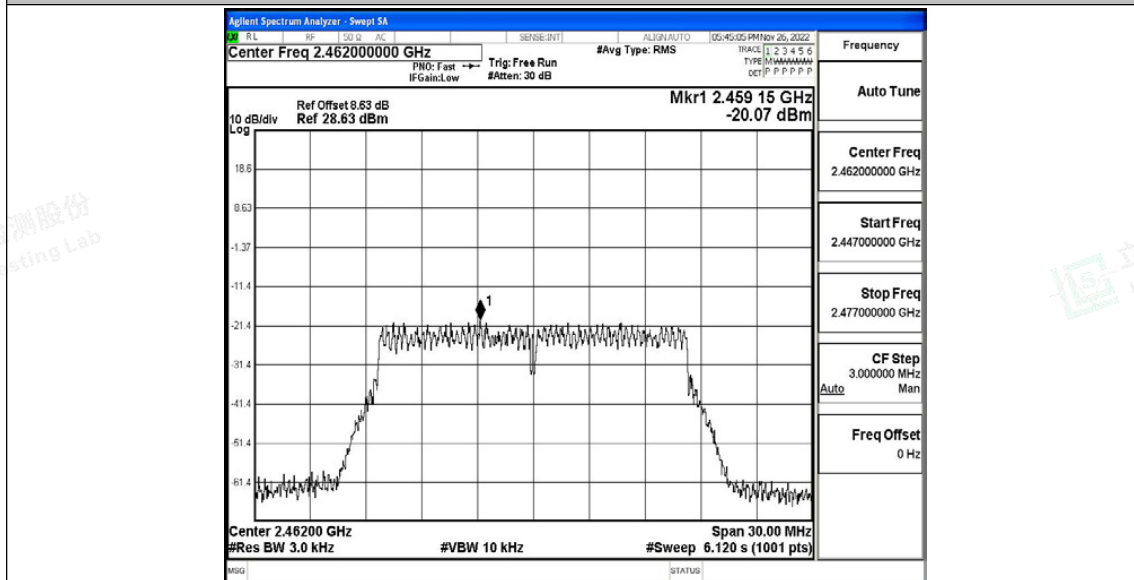
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11G_Ant1_2462



11N20SISO_Ant1_2412

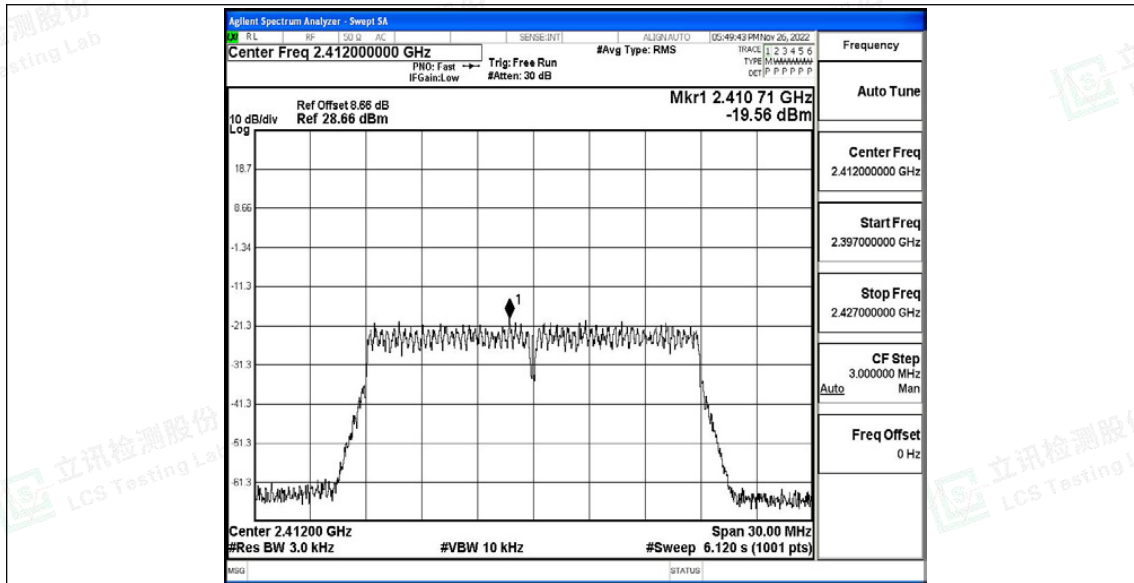


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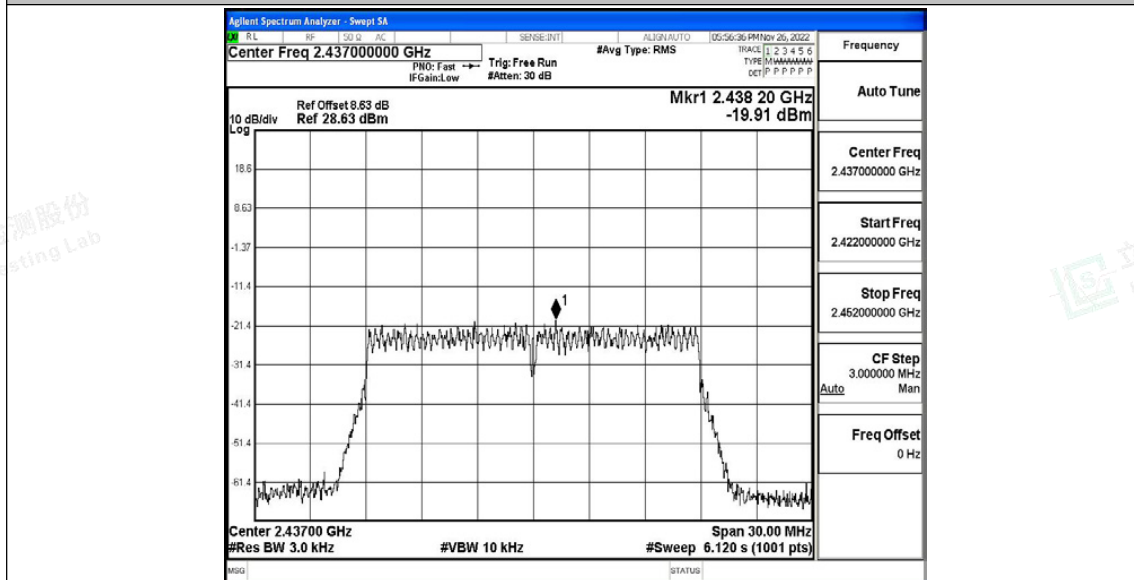
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

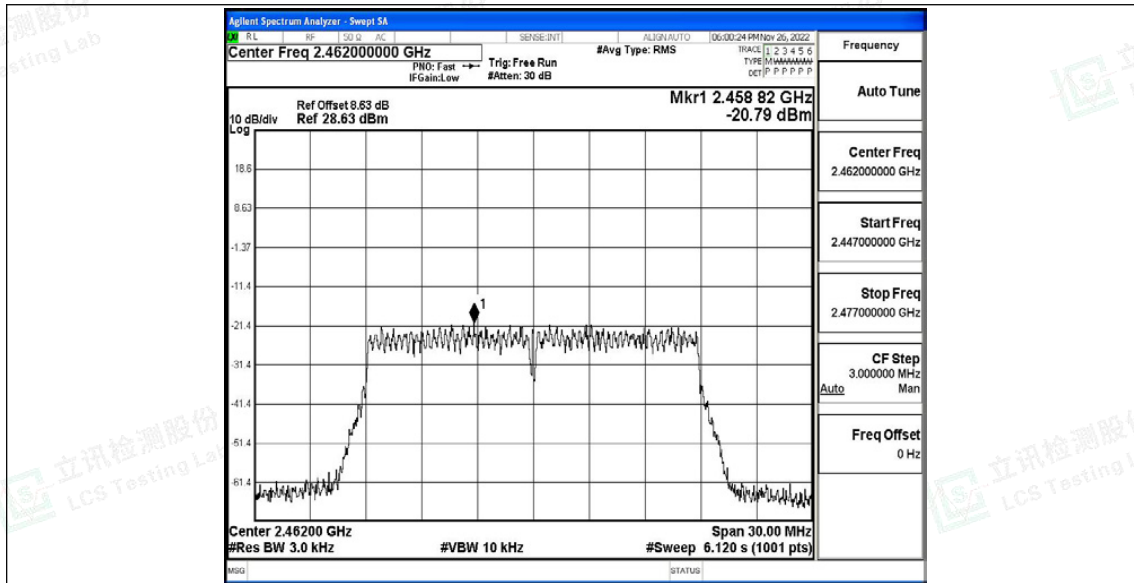


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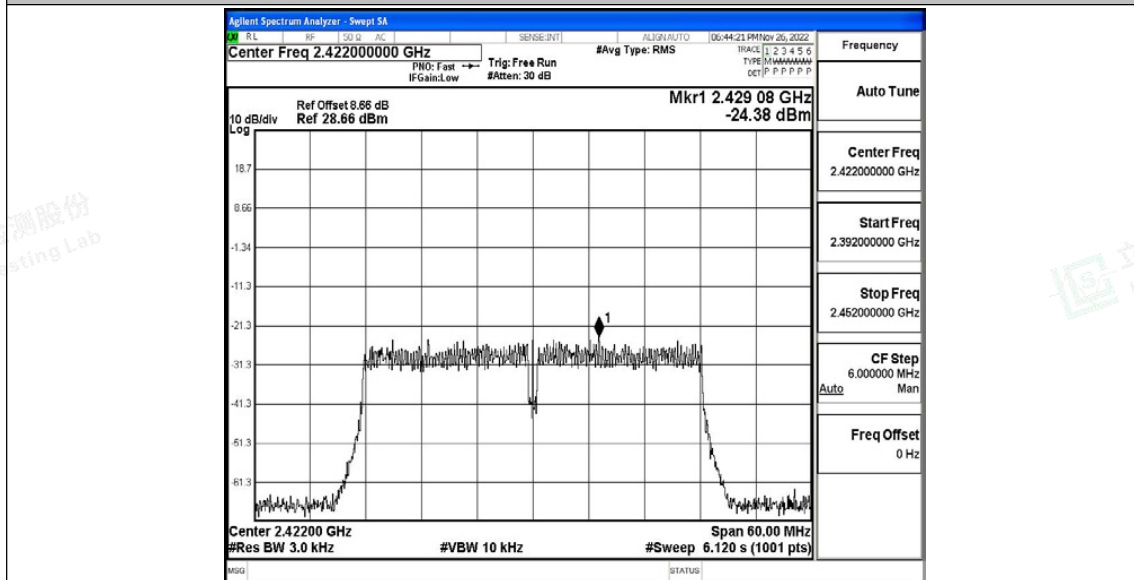
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

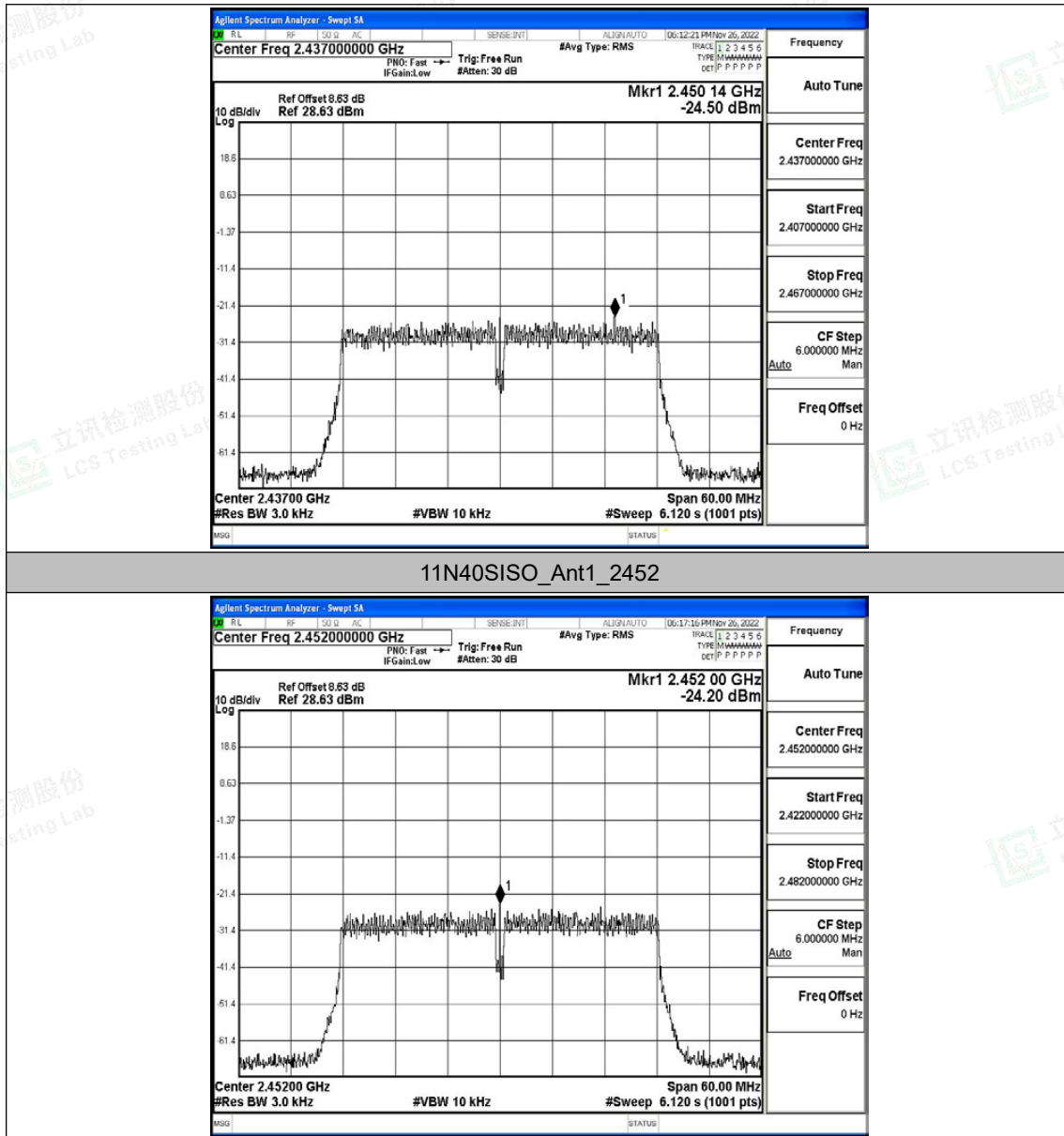


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B.4 Band edge measurements

Test Result

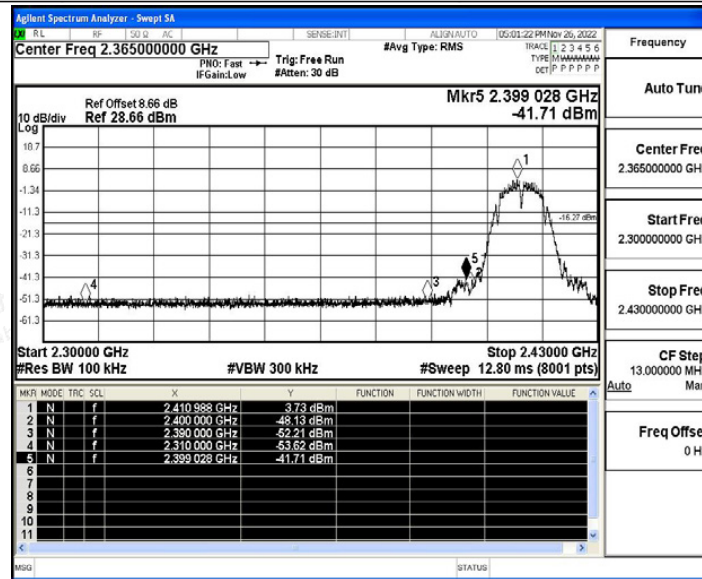
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.73	-41.71	≤ -16.27	PASS
		High	2462	2.98	-48.48	≤ -17.02	PASS
11G	Ant1	Low	2412	-4.87	-43.77	≤ -24.87	PASS
		High	2462	-5.25	-48.78	≤ -25.25	PASS
11N20SISO	Ant1	Low	2412	-4.78	-44.6	≤ -24.78	PASS
		High	2462	-5.67	-47.47	≤ -25.67	PASS
11N40SISO	Ant1	Low	2422	-8.26	-44.97	≤ -28.26	PASS
		High	2452	-10.41	-48.08	≤ -30.41	PASS



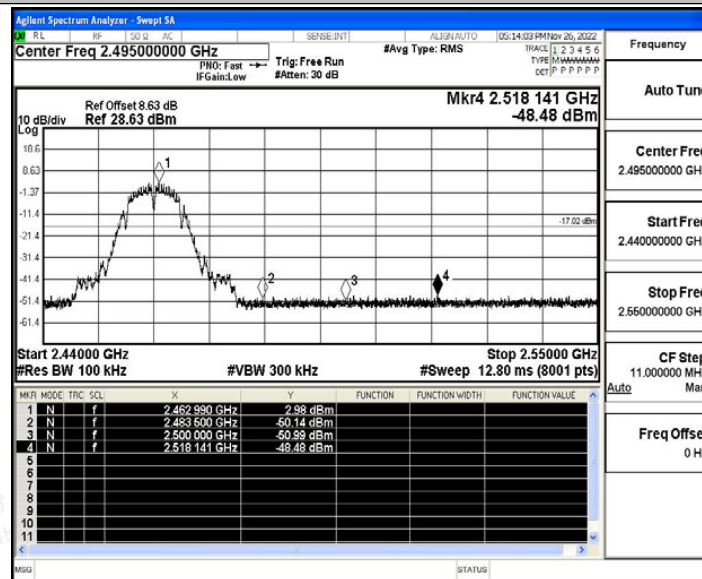


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

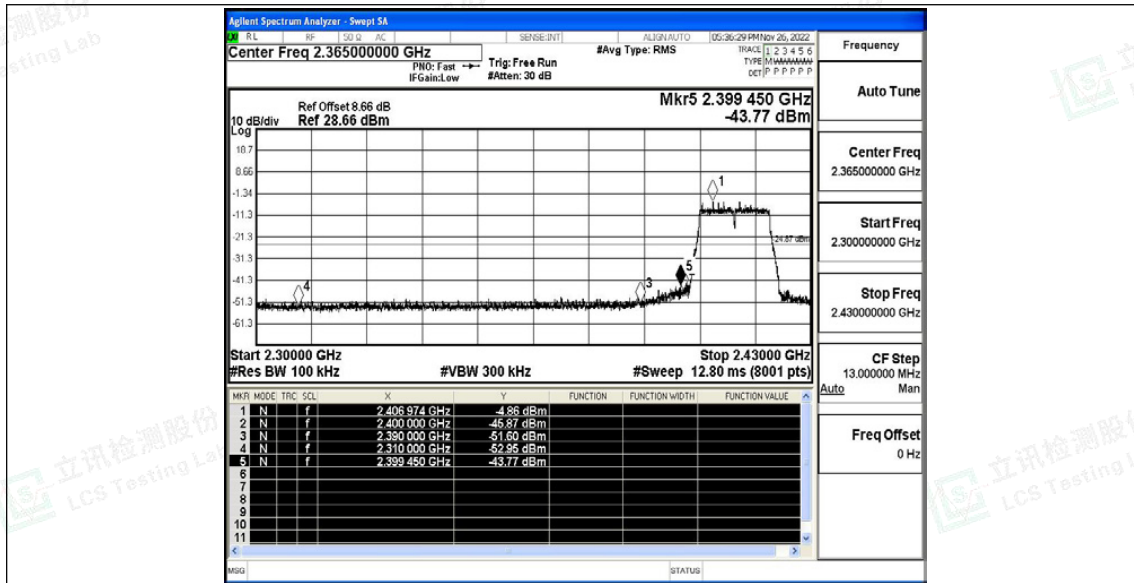


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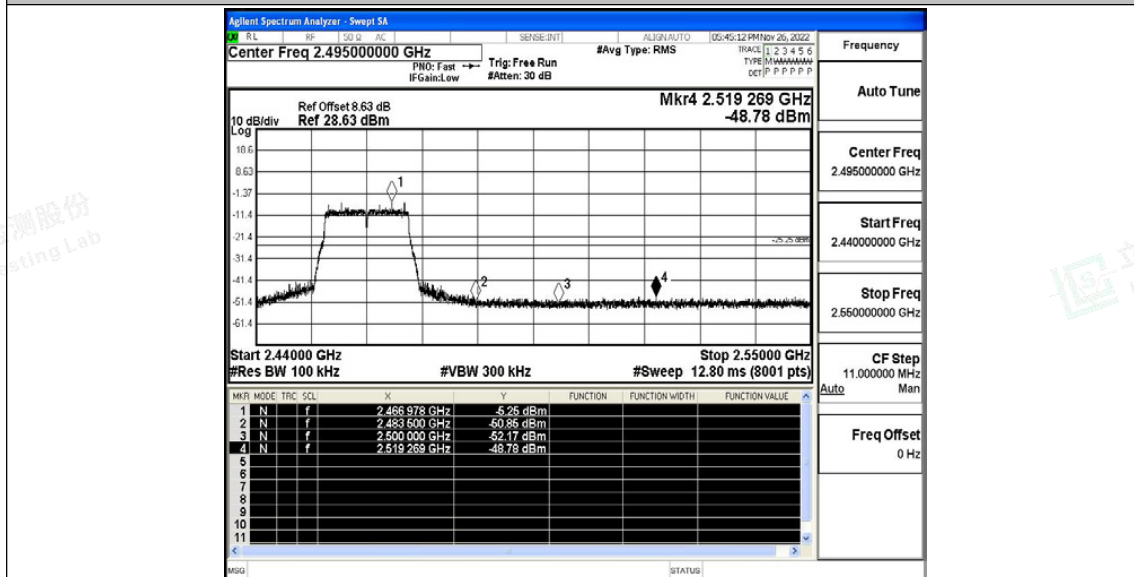
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

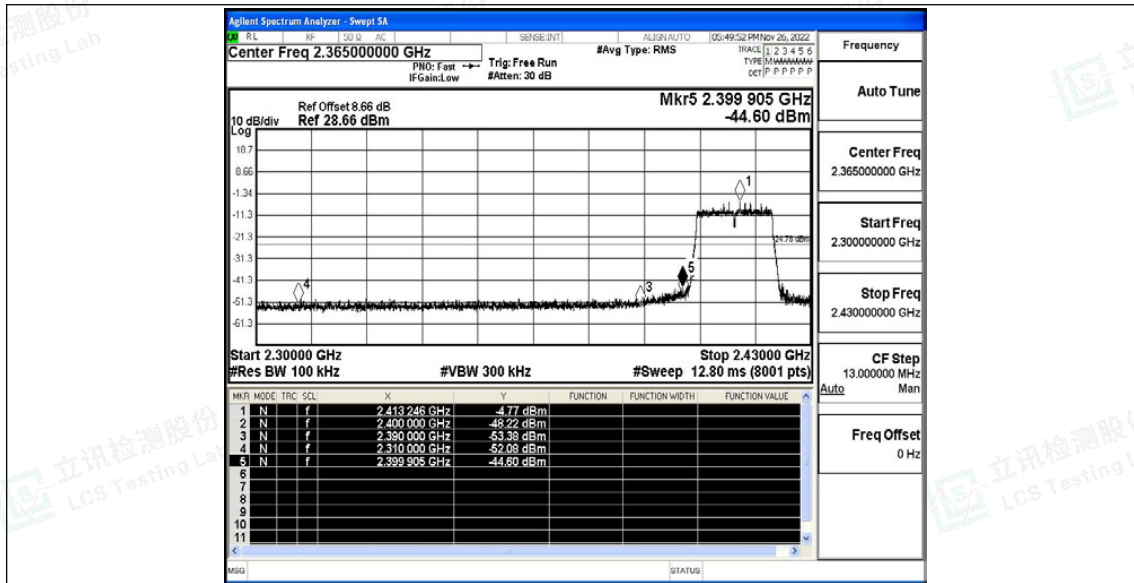


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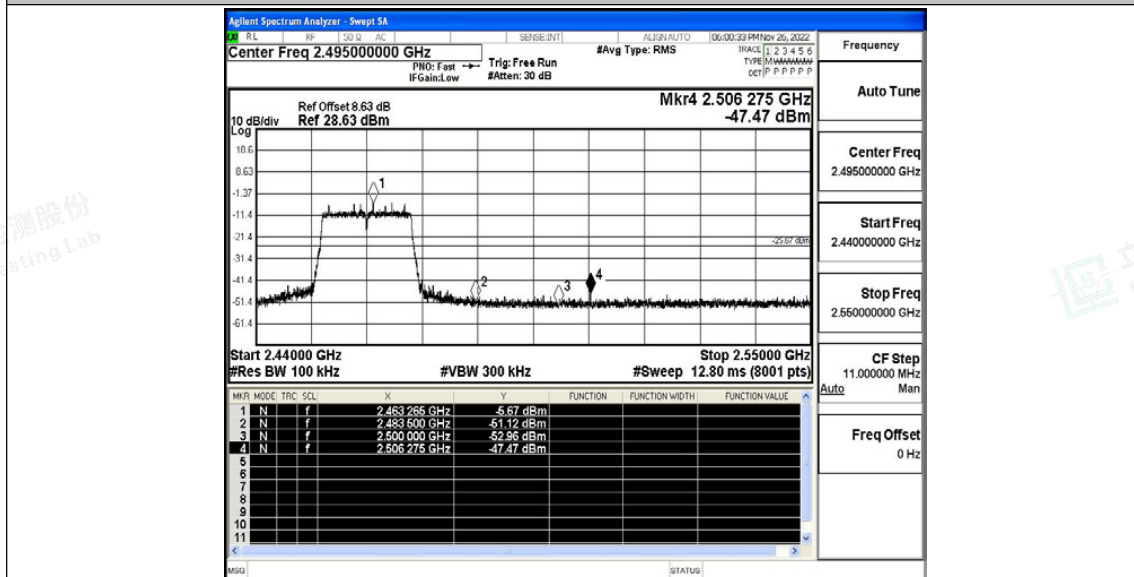
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

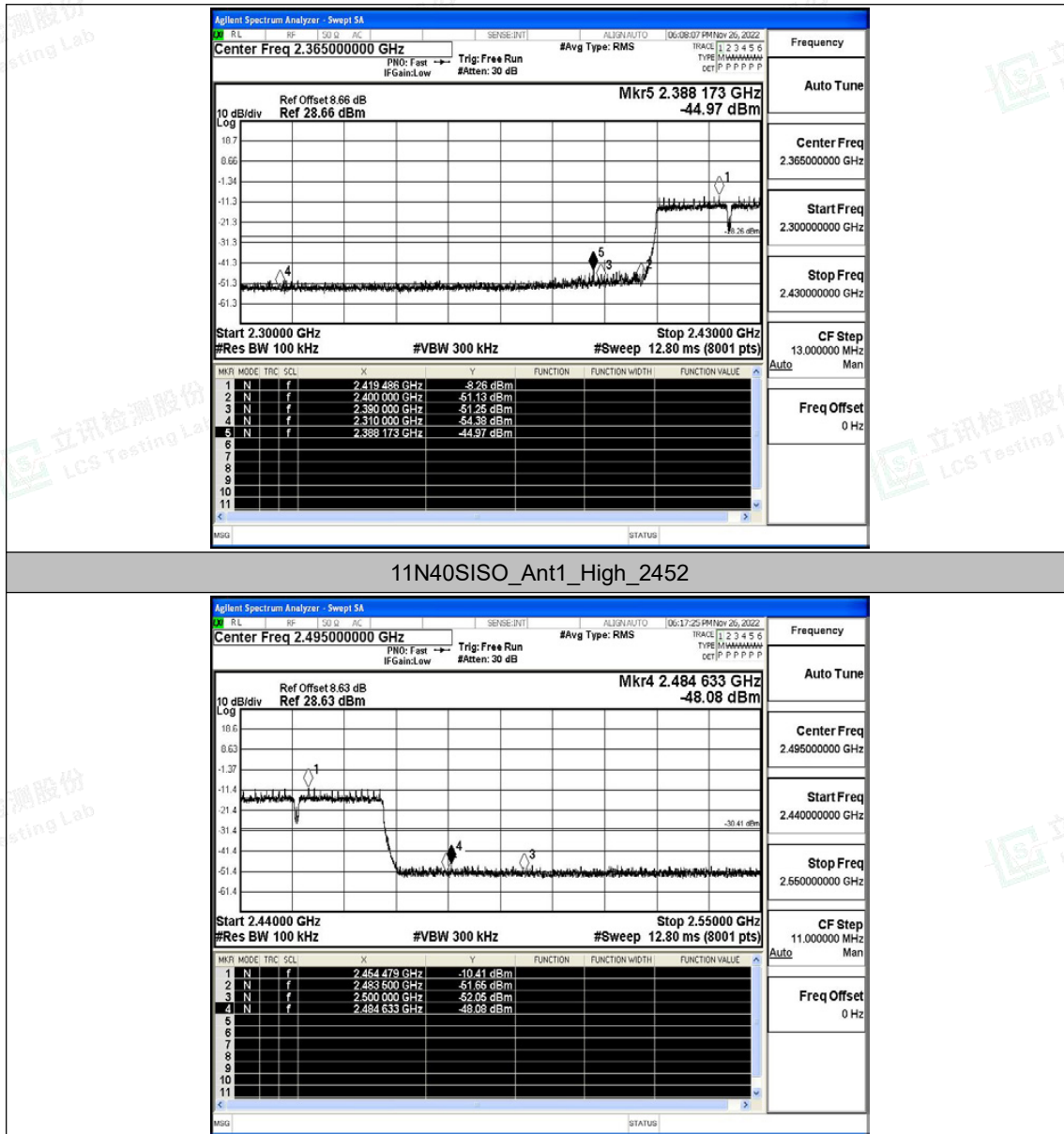


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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-54.72	≤-17.43	PASS
			1000~26500	2.57	-45.7	≤-17.43	PASS
		2437	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-50.68	≤-18.75	PASS
			1000~26500	1.25	-46.3	≤-18.75	PASS
		2462	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-60.88	≤-18.94	PASS
			1000~26500	1.06	-46.25	≤-18.94	PASS
11G	Ant1	2412	Reference	-7.45	-7.45	---	PASS
			30~1000	-7.45	-61.17	≤-27.45	PASS
			1000~26500	-7.45	-46.61	≤-27.45	PASS
		2437	Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-60.61	≤-26.82	PASS
			1000~26500	-6.82	-46.59	≤-26.82	PASS
		2462	Reference	-6.85	-6.85	---	PASS
			30~1000	-6.85	-60.21	≤-26.85	PASS
			1000~26500	-6.85	-45.65	≤-26.85	PASS
11N20SISO	Ant1	2412	Reference	-5.90	-5.90	---	PASS
			30~1000	-5.90	-57.15	≤-25.9	PASS
			1000~26500	-5.90	-45.83	≤-25.9	PASS
		2437	Reference	-8.55	-8.55	---	PASS
			30~1000	-8.55	-60.59	≤-28.55	PASS
			1000~26500	-8.55	-46.25	≤-28.55	PASS
		2462	Reference	-8.08	-8.08	---	PASS
			30~1000	-8.08	-60.2	≤-28.08	PASS
			1000~26500	-8.08	-46.55	≤-28.08	PASS
11N40SISO	Ant1	2422	Reference	-8.95	-8.95	---	PASS
			30~1000	-8.95	-61.15	≤-28.95	PASS
			1000~26500	-8.95	-46.44	≤-28.95	PASS
		2437	Reference	-10.16	-10.16	---	PASS
			30~1000	-10.16	-60.51	≤-30.16	PASS
			1000~26500	-10.16	-46.15	≤-30.16	PASS
		2452	Reference	-10.99	-10.99	---	PASS
			30~1000	-10.99	-60.47	≤-30.99	PASS



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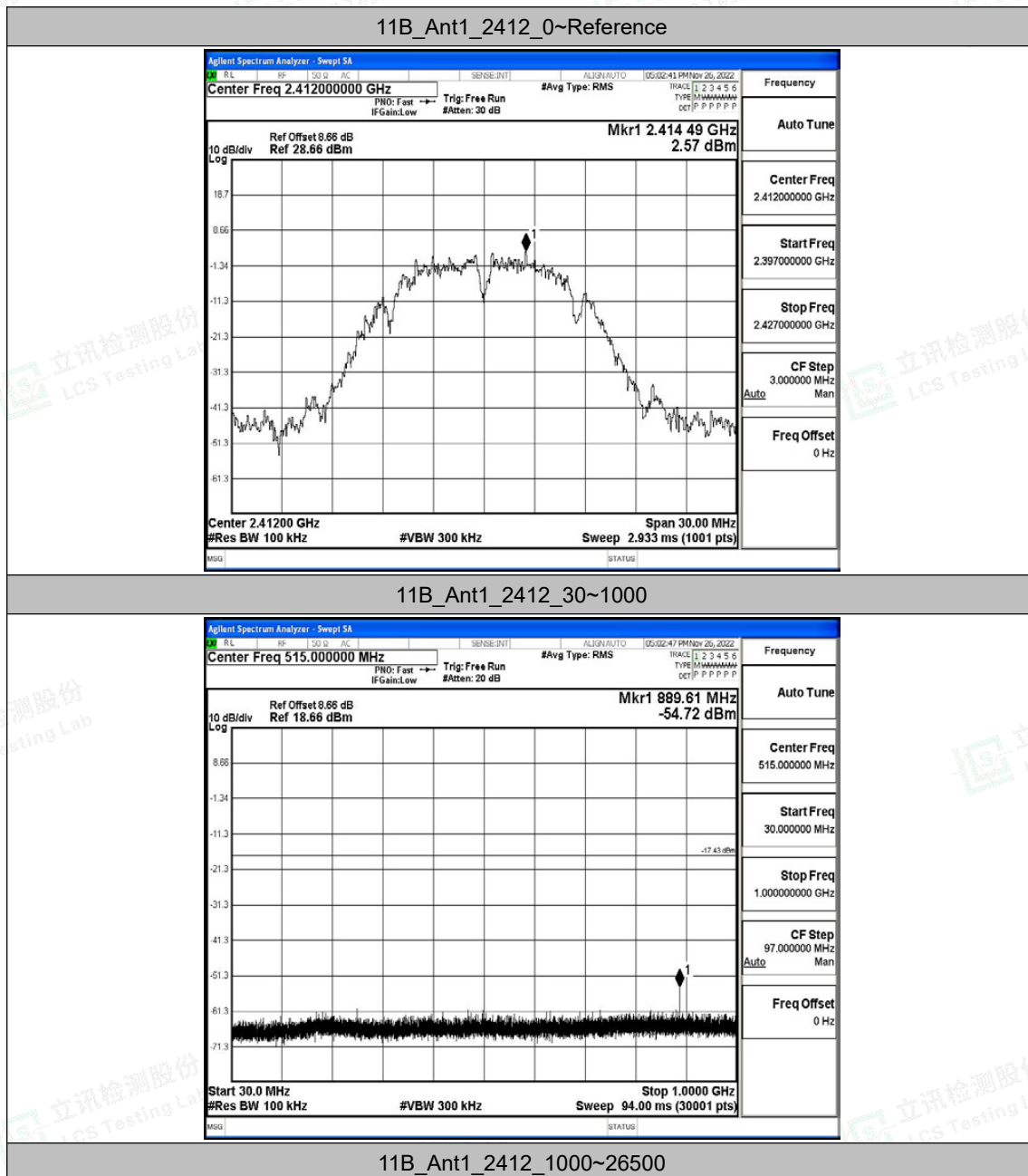


			1000~26500	-10.99	-45.96	≤-30.99	PASS
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Test Graphs

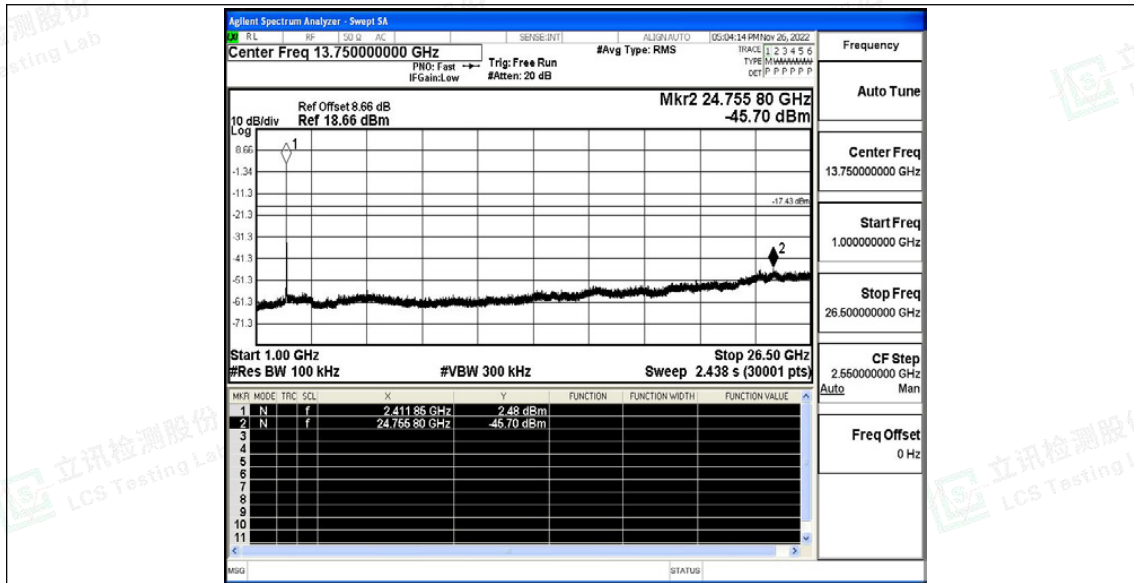


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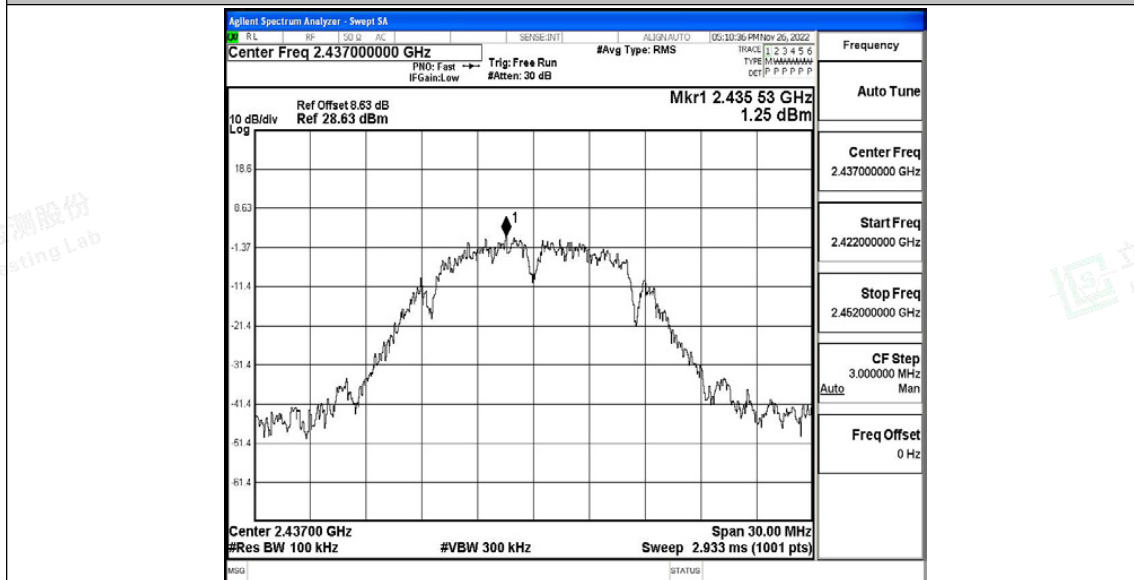
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

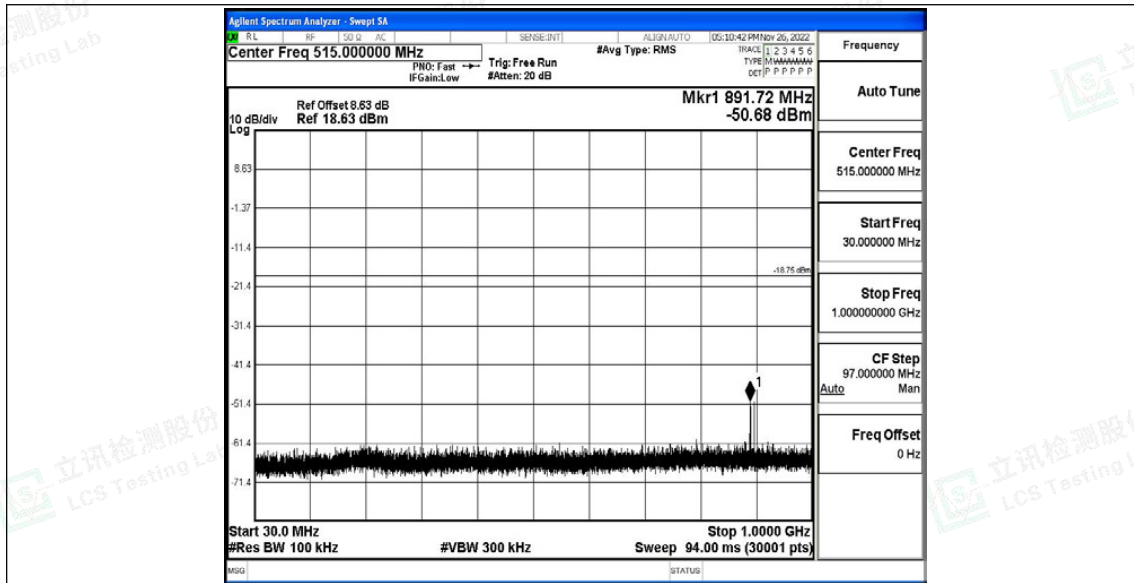


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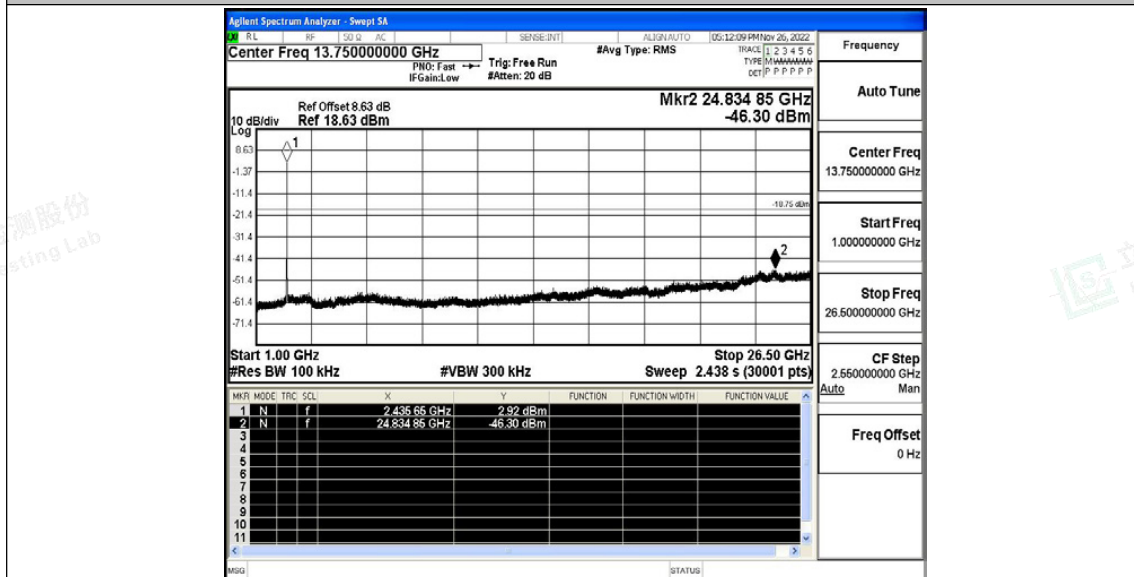
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

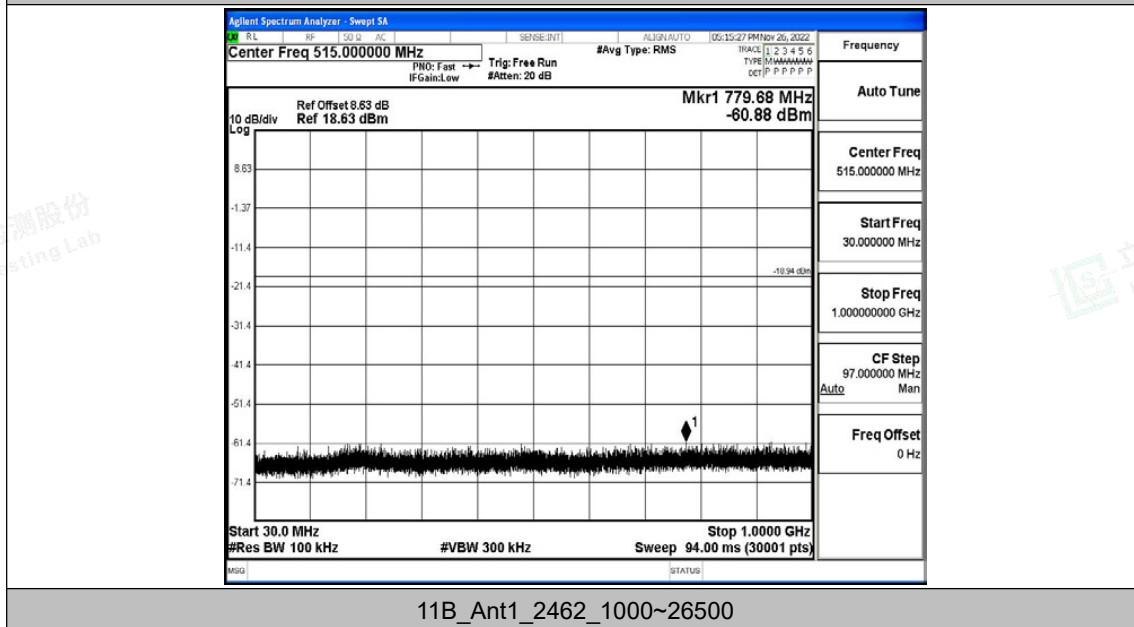
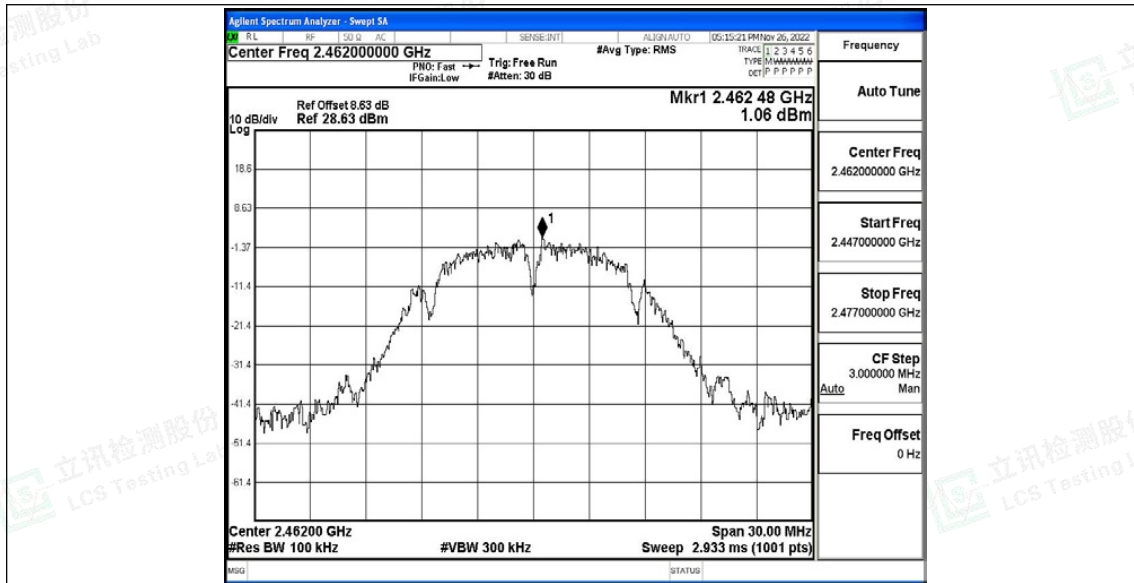


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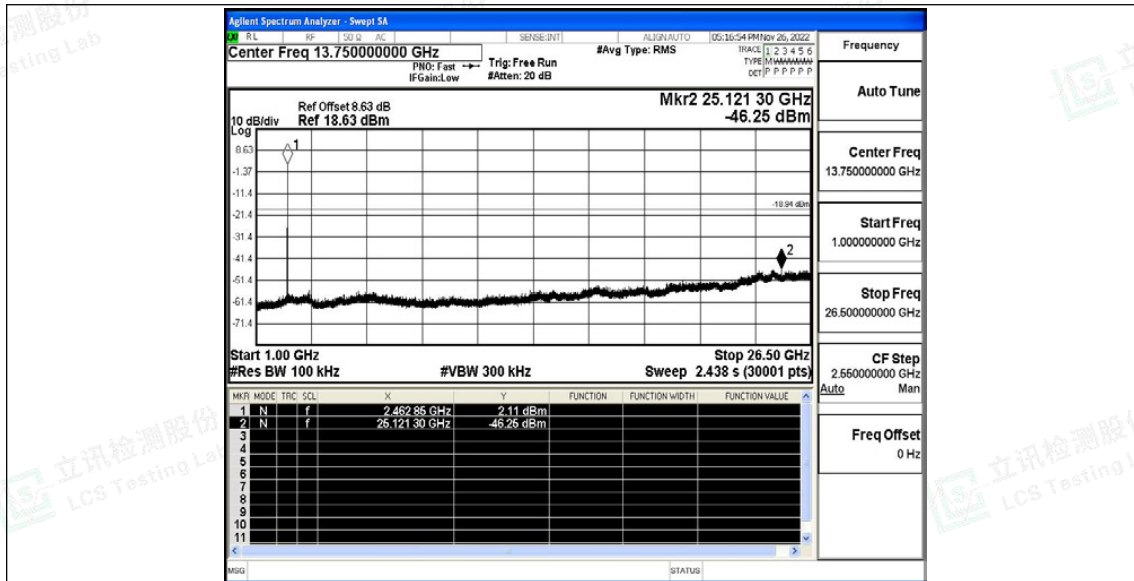


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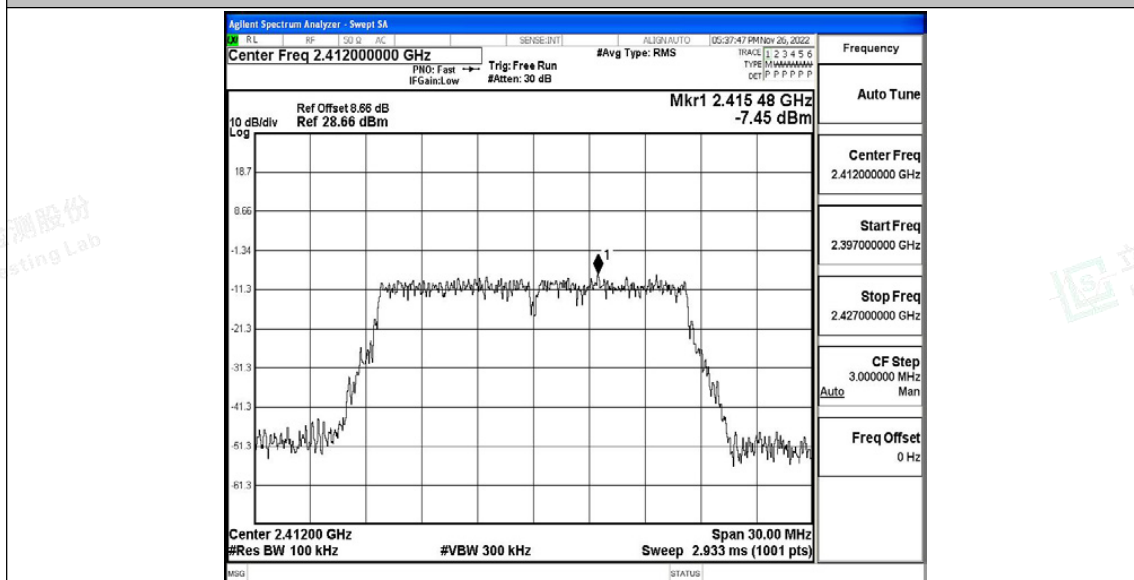
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

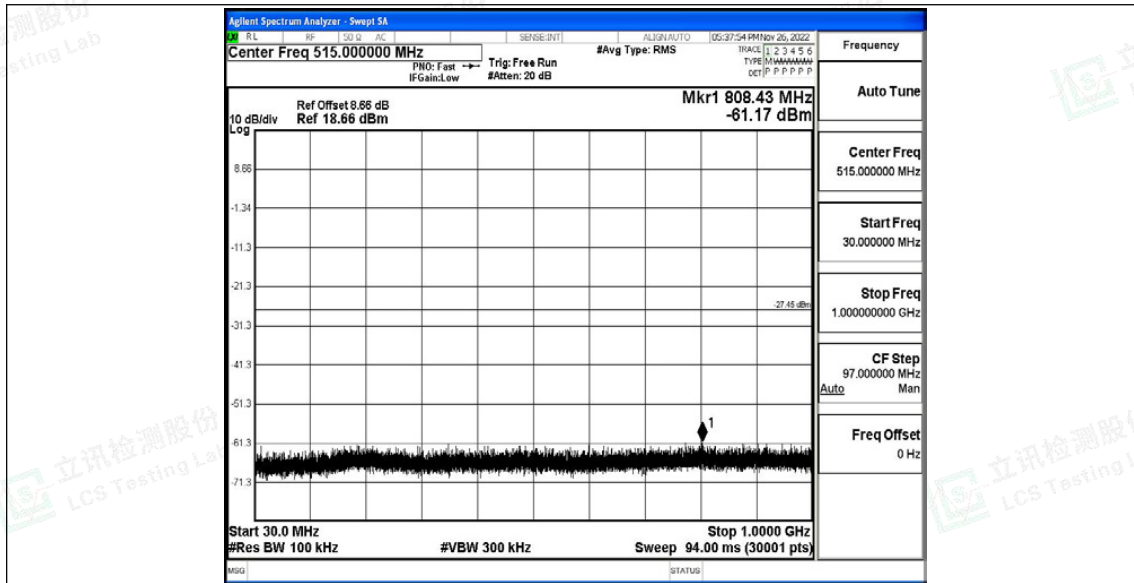


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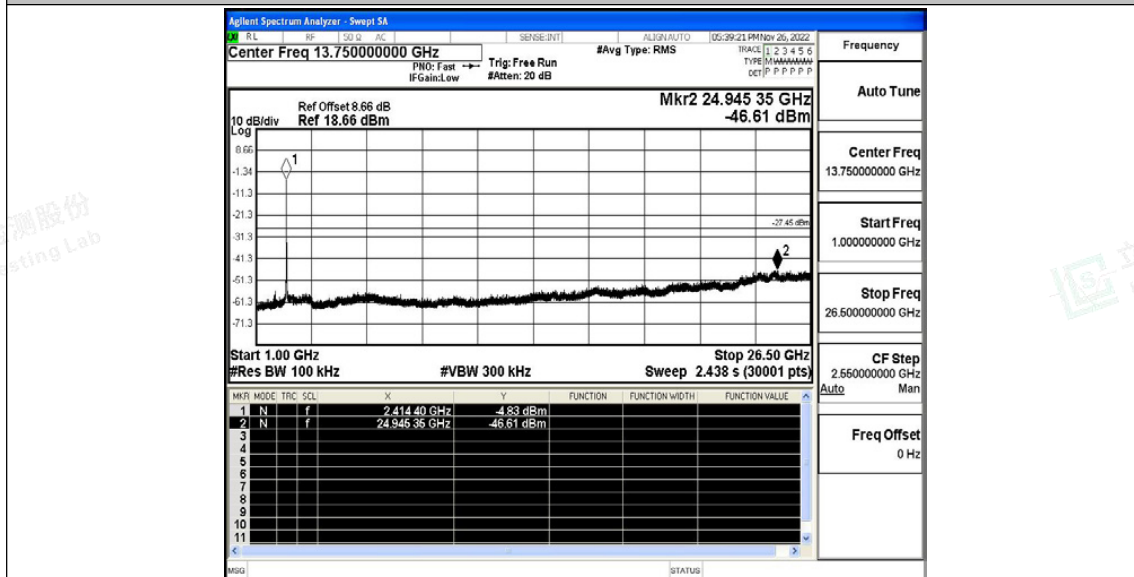
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

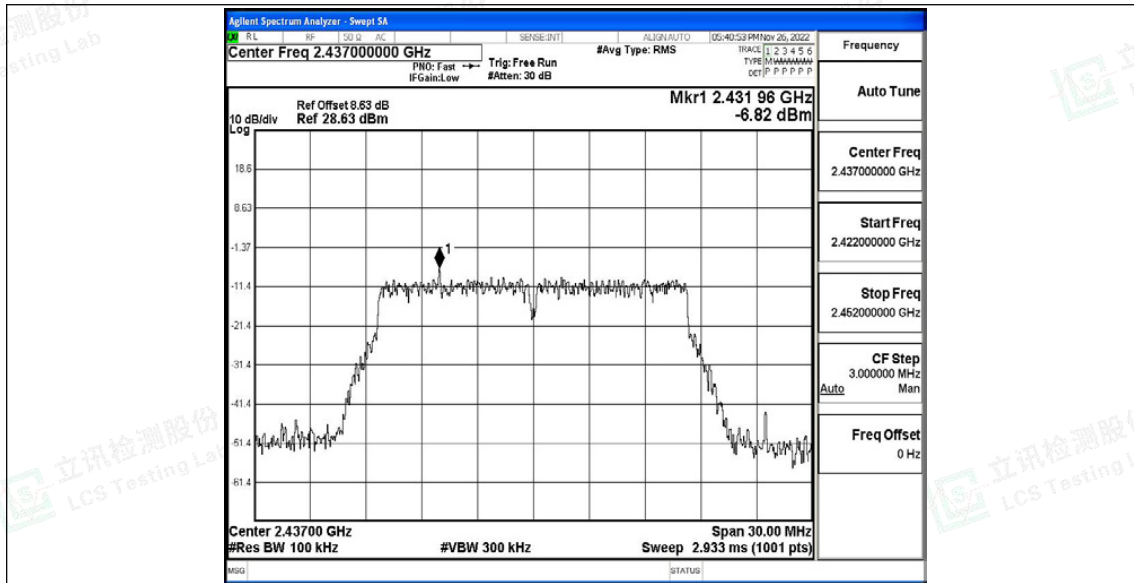


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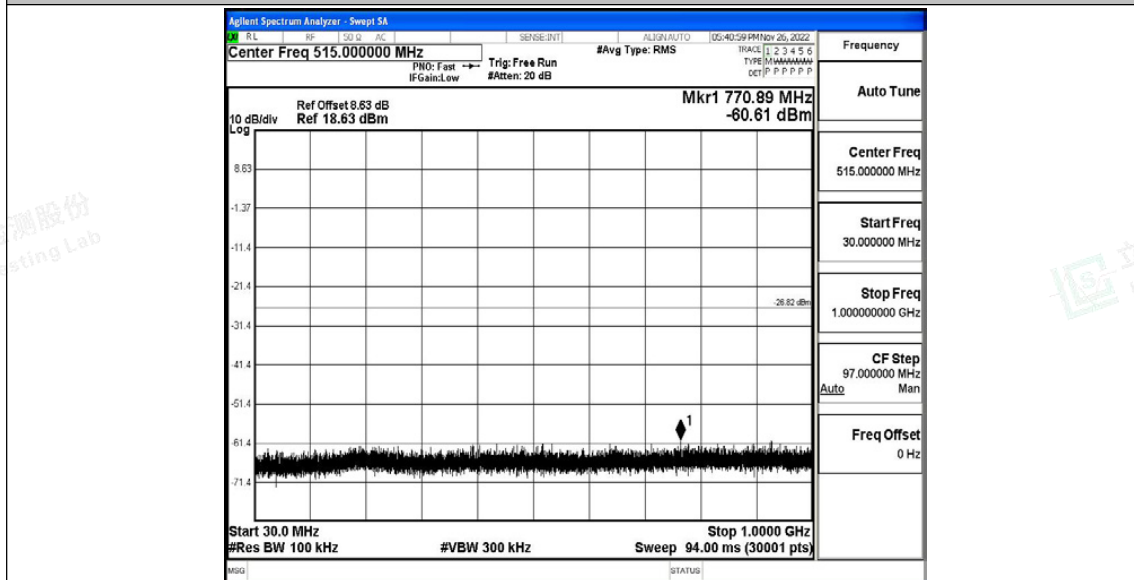
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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