



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Legends Ultimate Mini Home Arcade

Test Model: HA8811

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li huan



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C.1 6dB Bandwidth

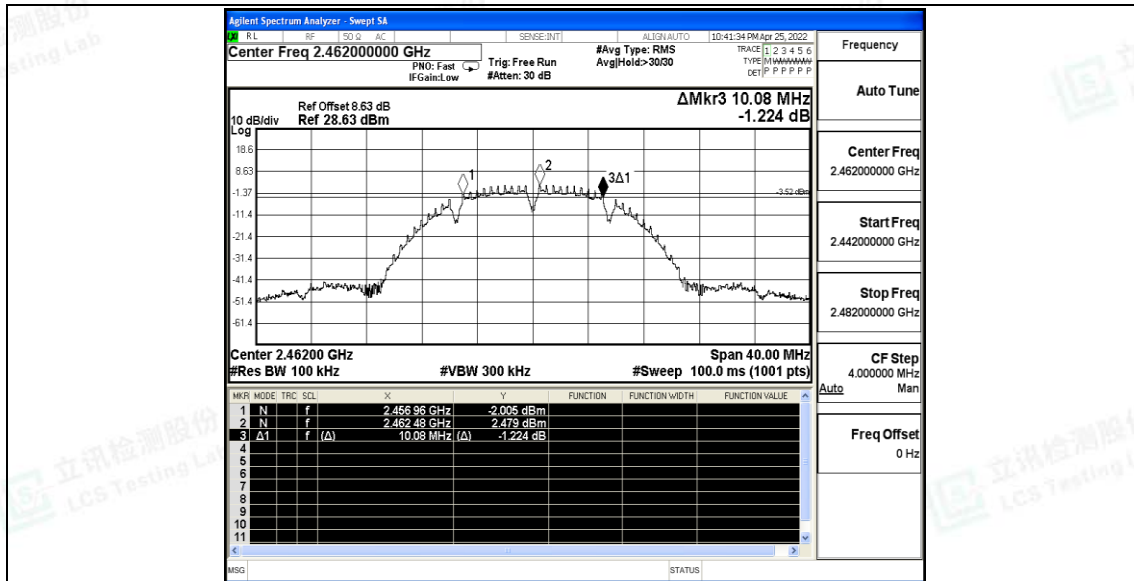
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant	2412	15.800	2404.080	2419.880	0.5	PASS
		2437	16.040	2428.840	2444.880	0.5	PASS
		2462	15.680	2454.200	2469.880	0.5	PASS
11N20SISO	Ant	2412	16.520	2403.600	2420.120	0.5	PASS
		2437	16.640	2428.480	2445.120	0.5	PASS
		2462	16.520	2453.600	2470.120	0.5	PASS
11N40SISO	Ant	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS

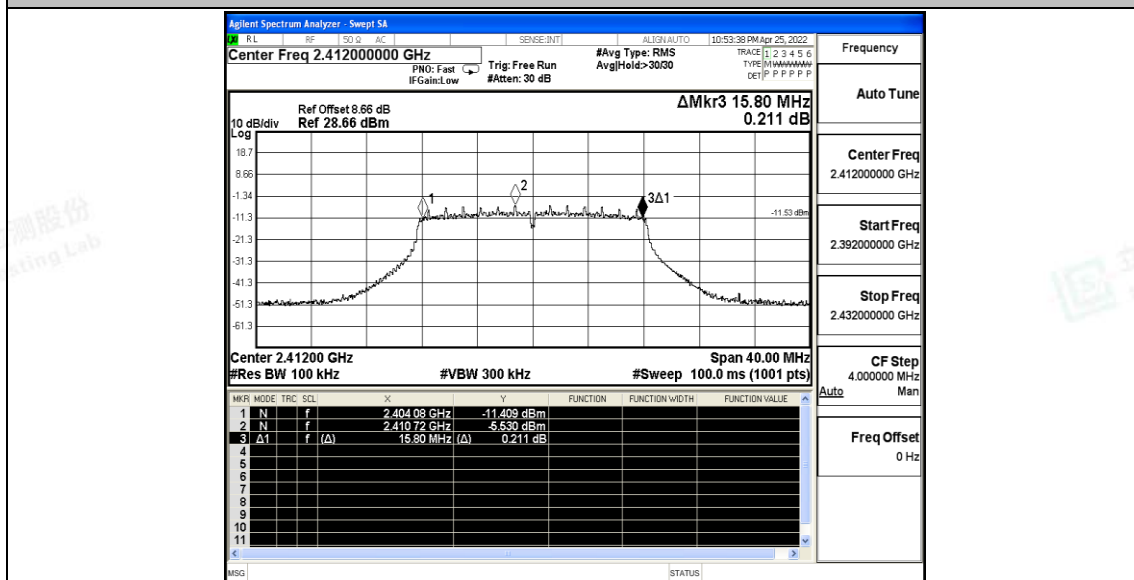


Test Graphs





11G_Ant_2412



11G_Ant_2437

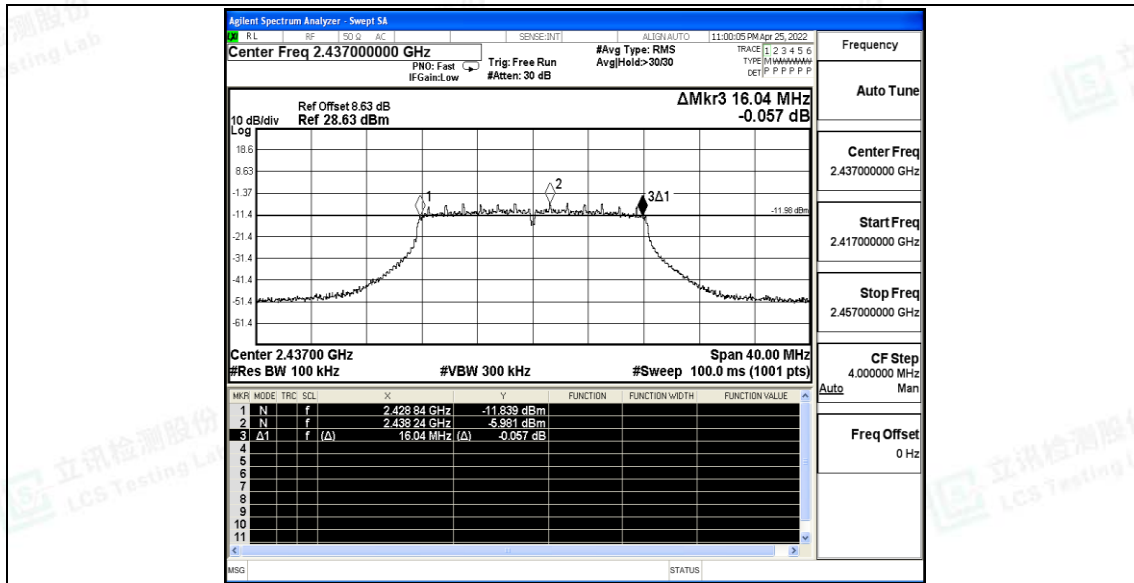


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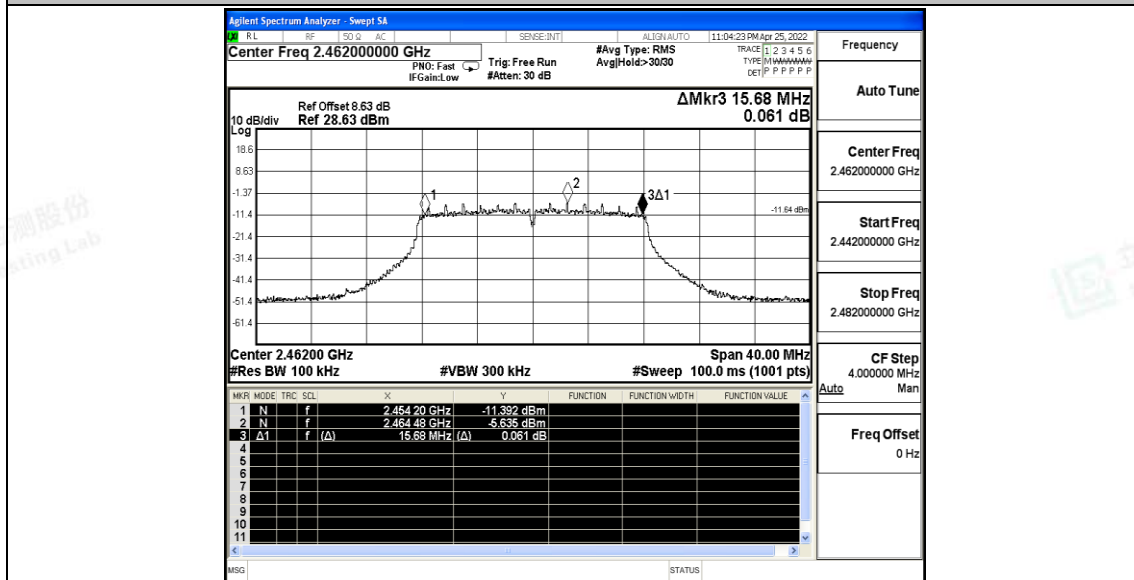
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11G_Ant_2462



11N20SISO_Ant_2412

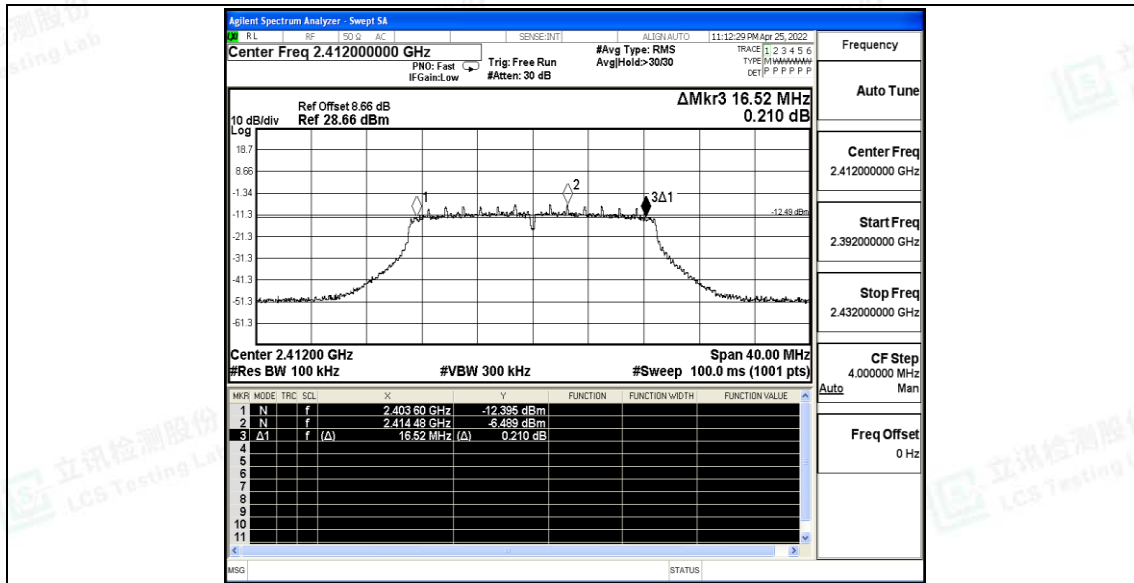


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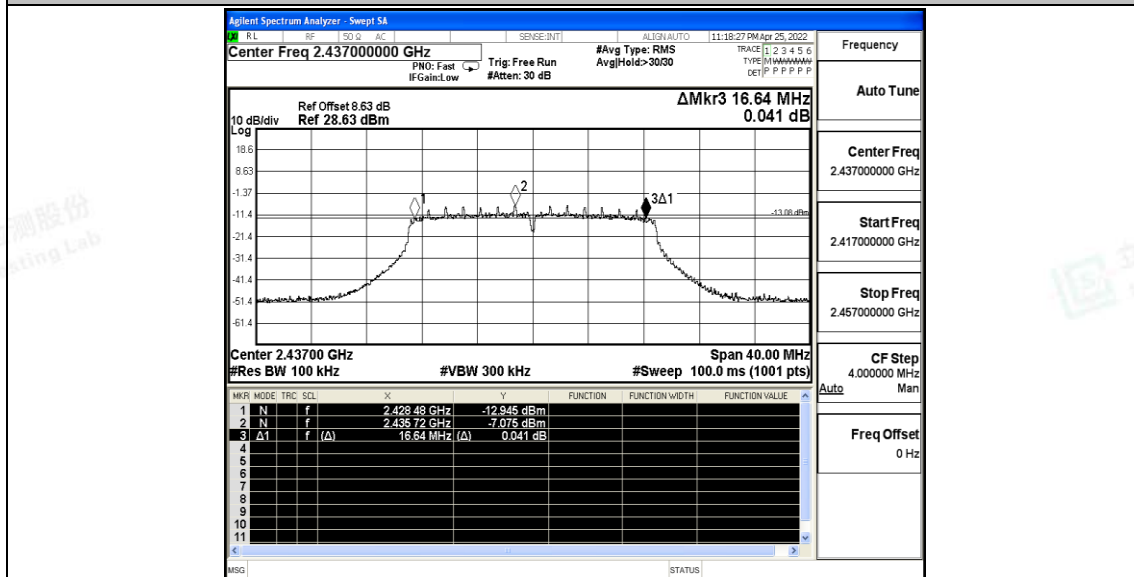
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

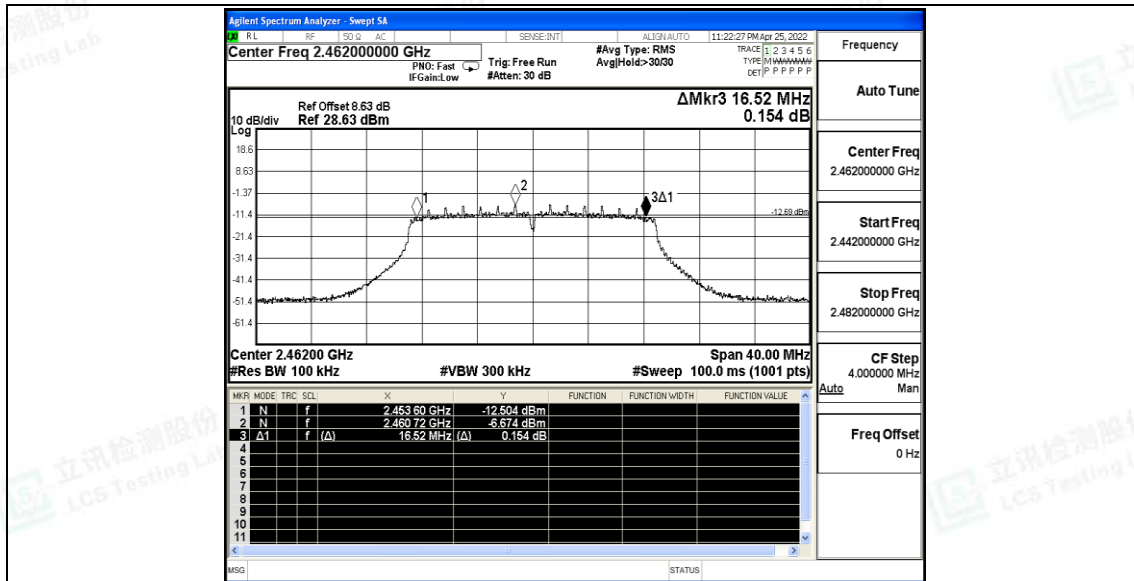


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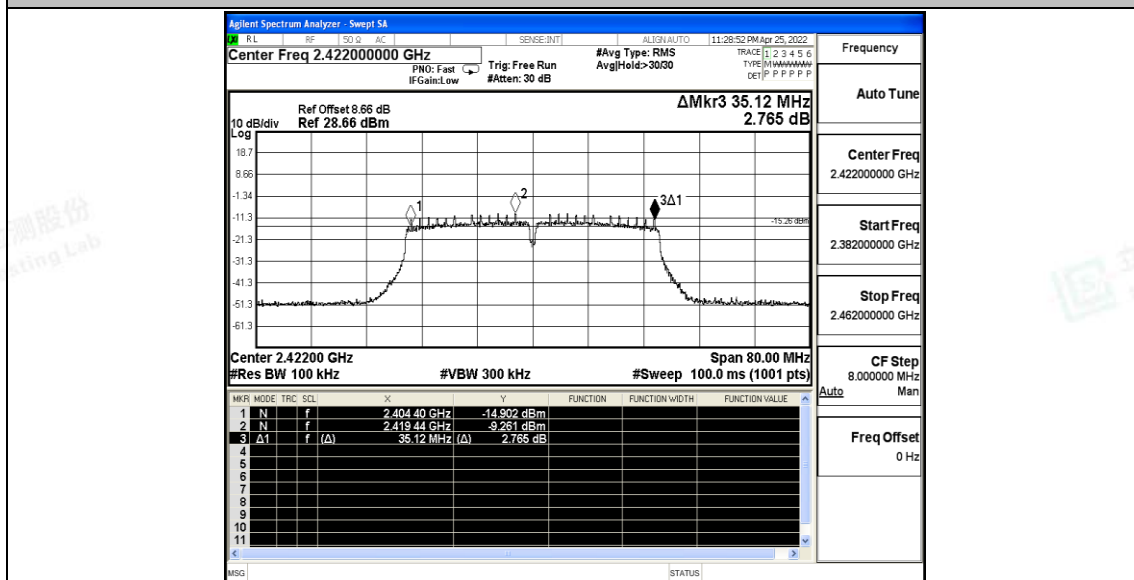
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11N40ISO_Ant_2422



11N40ISO_Ant_2437

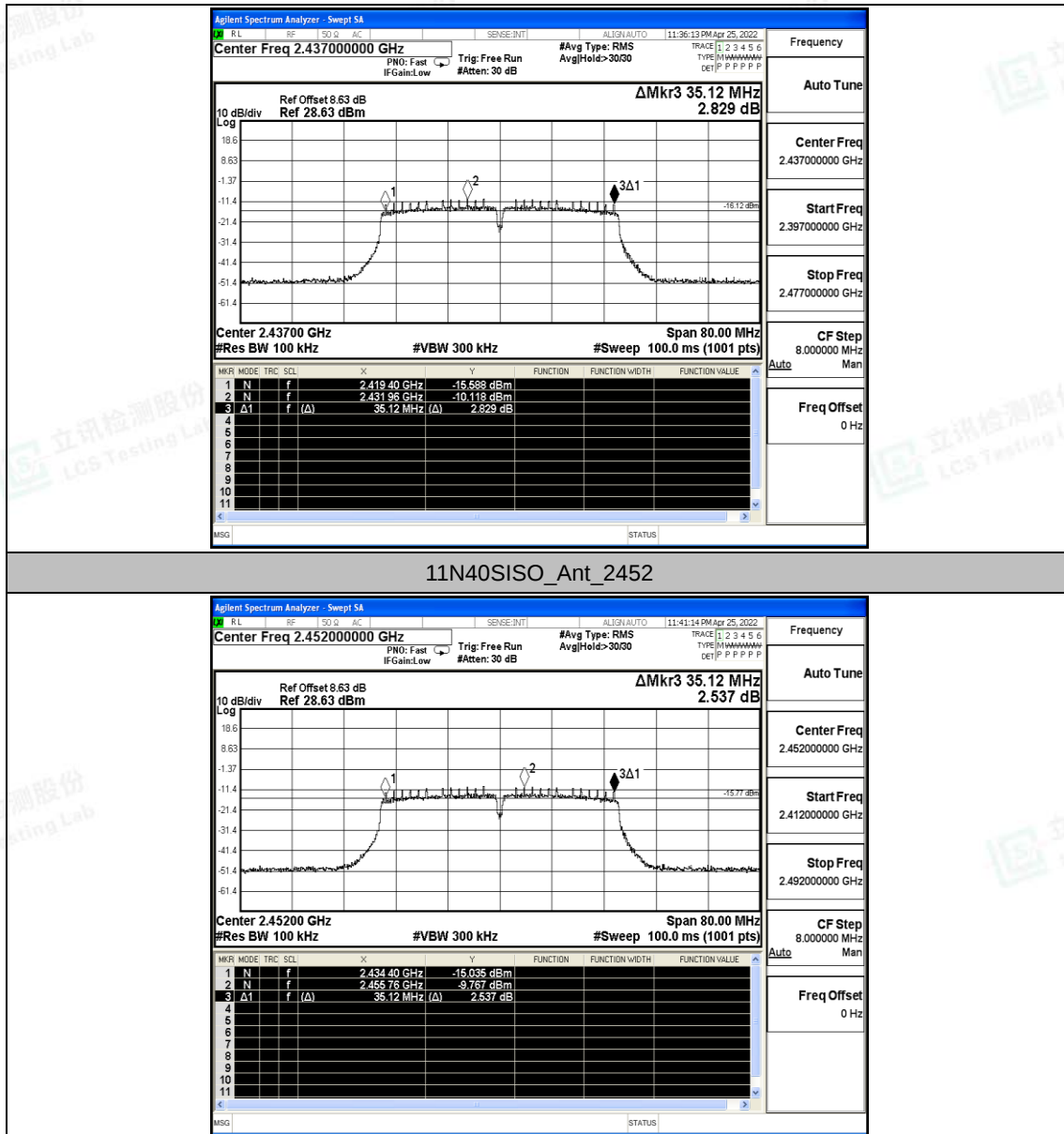


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	14.88	≤30.00	PASS
		2437	14.20	≤30.00	PASS
		2462	14.88	≤30.00	PASS
11G	Ant	2412	13.59	≤30.00	PASS
		2437	13.23	≤30.00	PASS
		2462	13.34	≤30.00	PASS
11N20SISO	Ant	2412	12.34	≤30.00	PASS
		2437	11.80	≤30.00	PASS
		2462	12.15	≤30.00	PASS
11N40SISO	Ant	2422	12.47	≤30.00	PASS
		2437	11.70	≤30.00	PASS
		2452	11.96	≤30.00	PASS





C.3 Maximum power spectral density

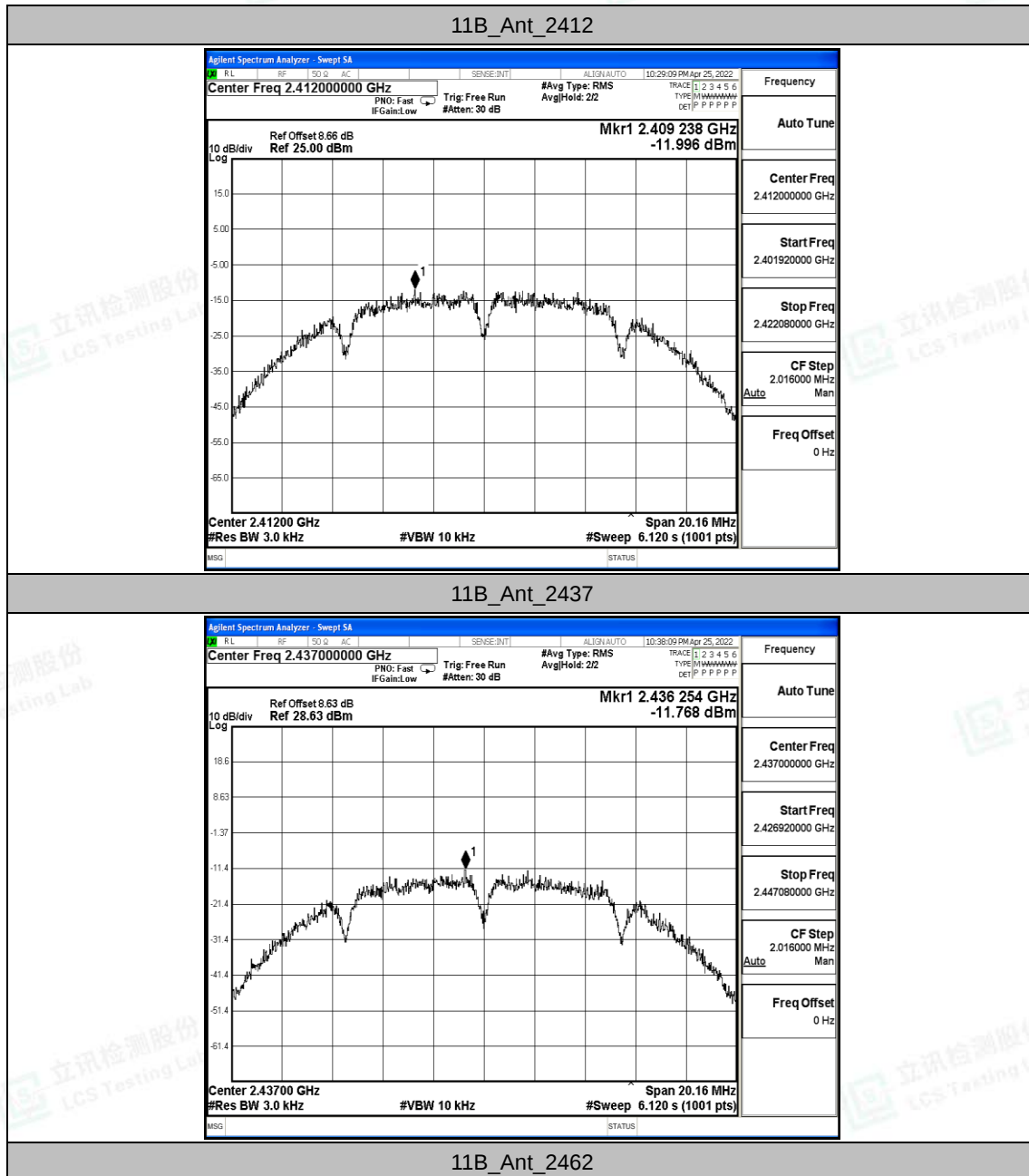
Test Result

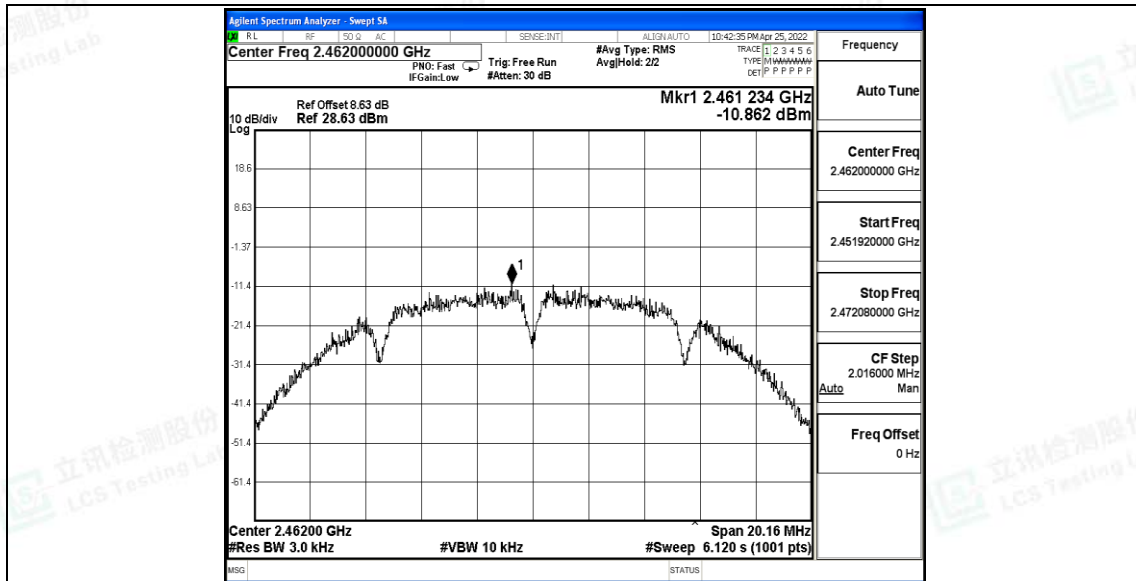
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-12.00	≤8.00	PASS
		2437	-11.77	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11G	Ant	2412	-20.14	≤8.00	PASS
		2437	-20.7	≤8.00	PASS
		2462	-20.27	≤8.00	PASS
11N20SISO	Ant	2412	-20.75	≤8.00	PASS
		2437	-21.47	≤8.00	PASS
		2462	-21.37	≤8.00	PASS
11N40SISO	Ant	2422	-22.89	≤8.00	PASS
		2437	-23.55	≤8.00	PASS
		2452	-23.64	≤8.00	PASS



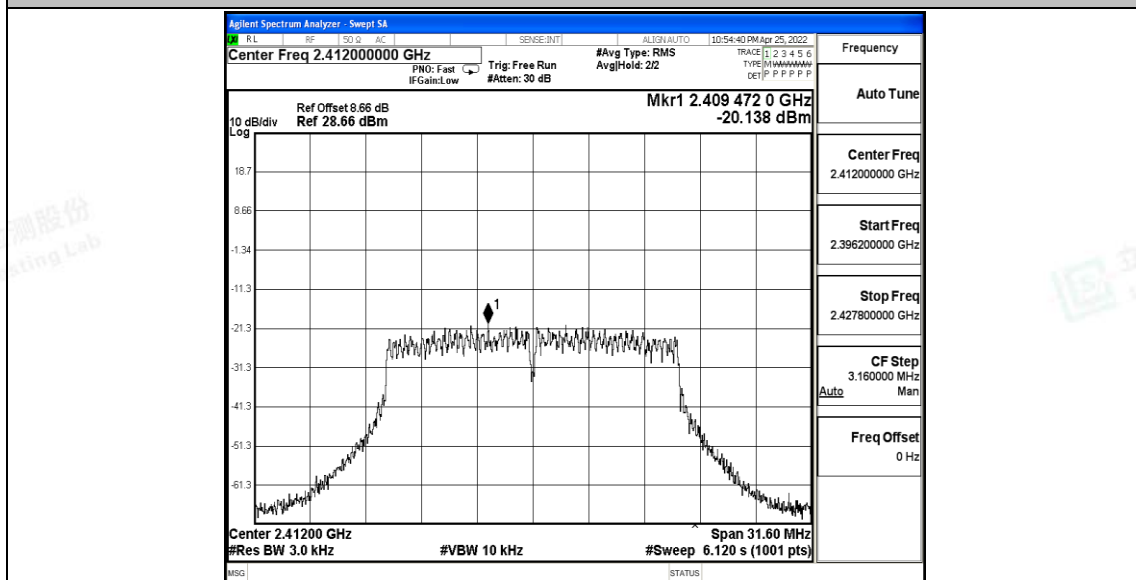


Test Graphs





11G_Ant_2412



11G_Ant_2437

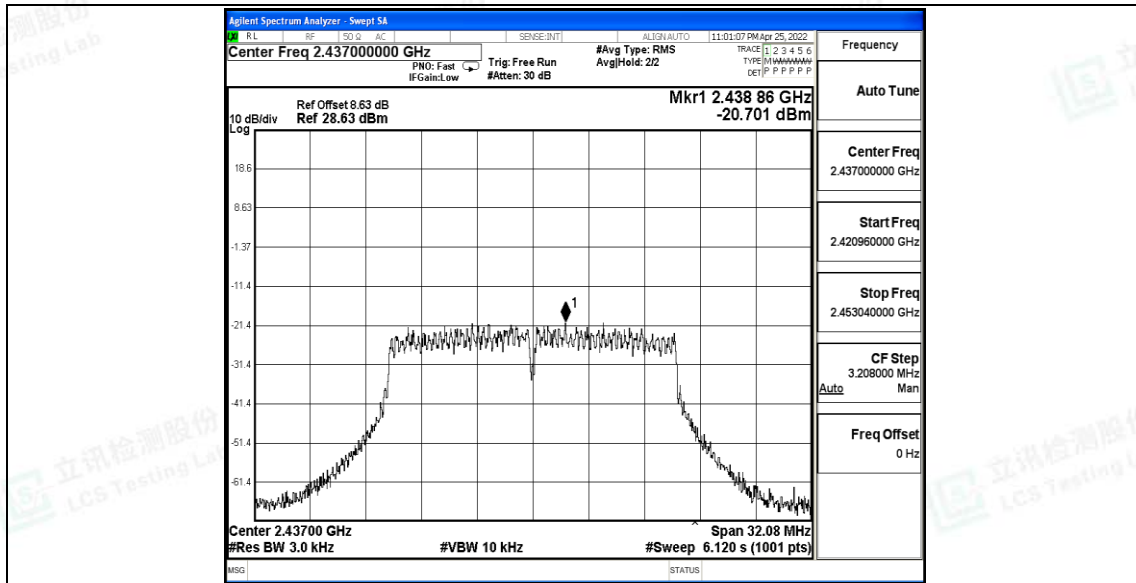


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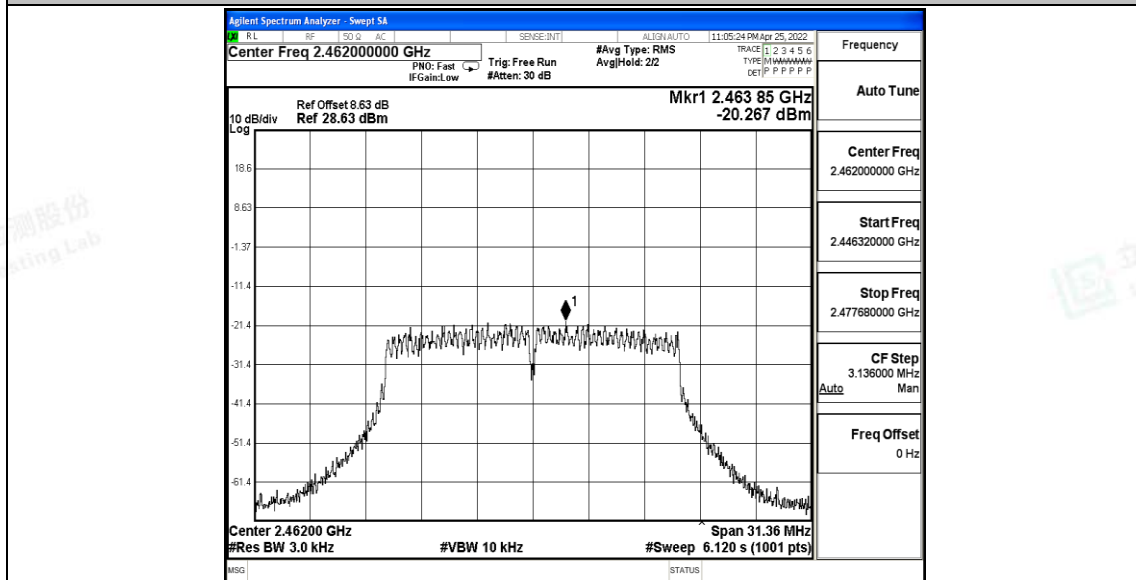
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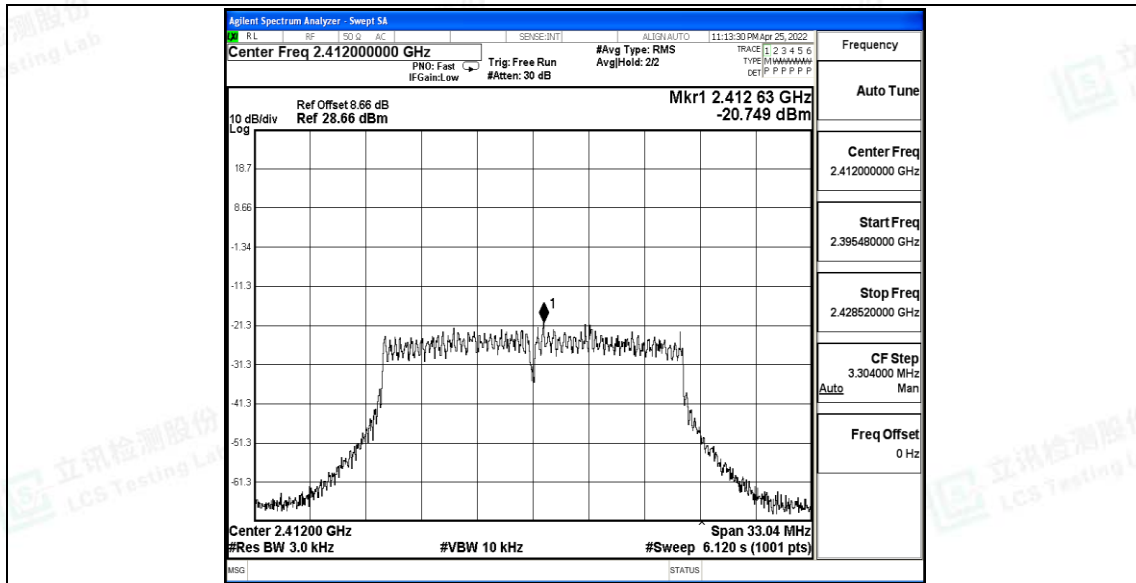


11G_Ant_2462

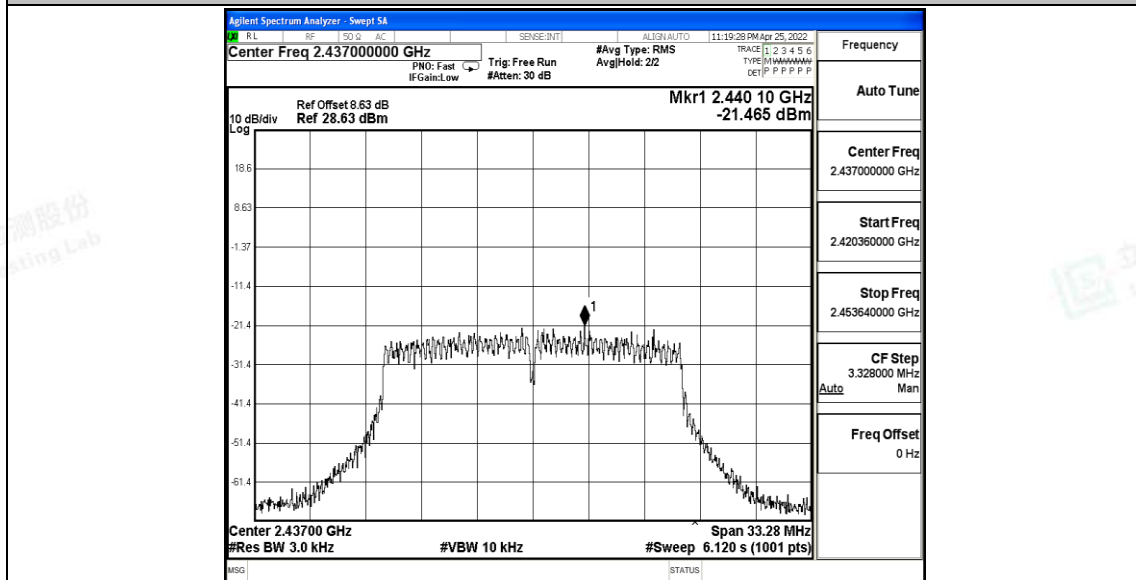


11N20SISO_Ant_2412





11N20SISO_Ant_2437



11N20SISO_Ant_2462

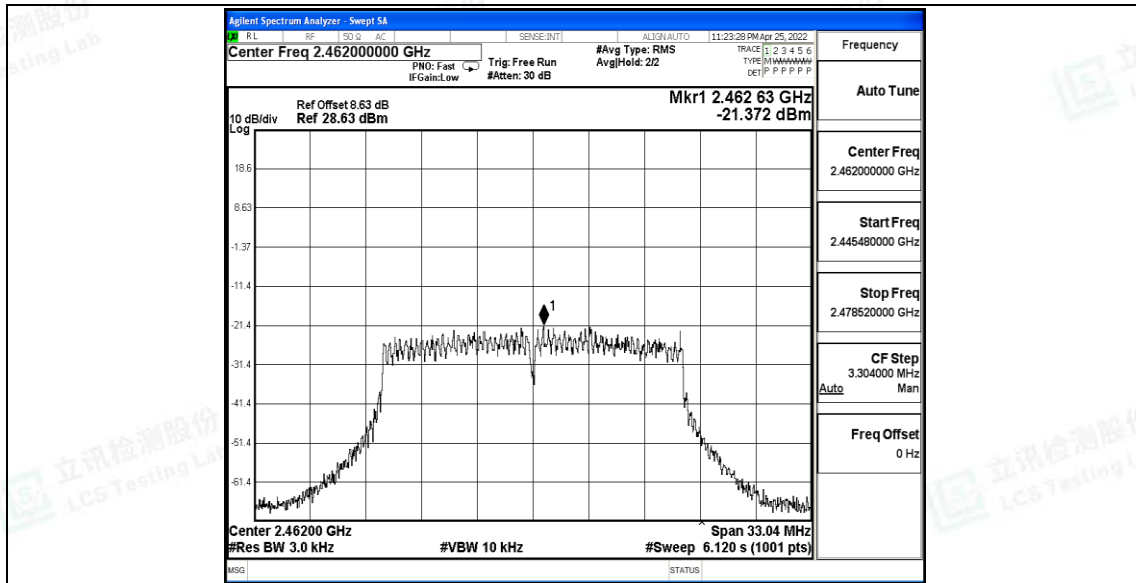


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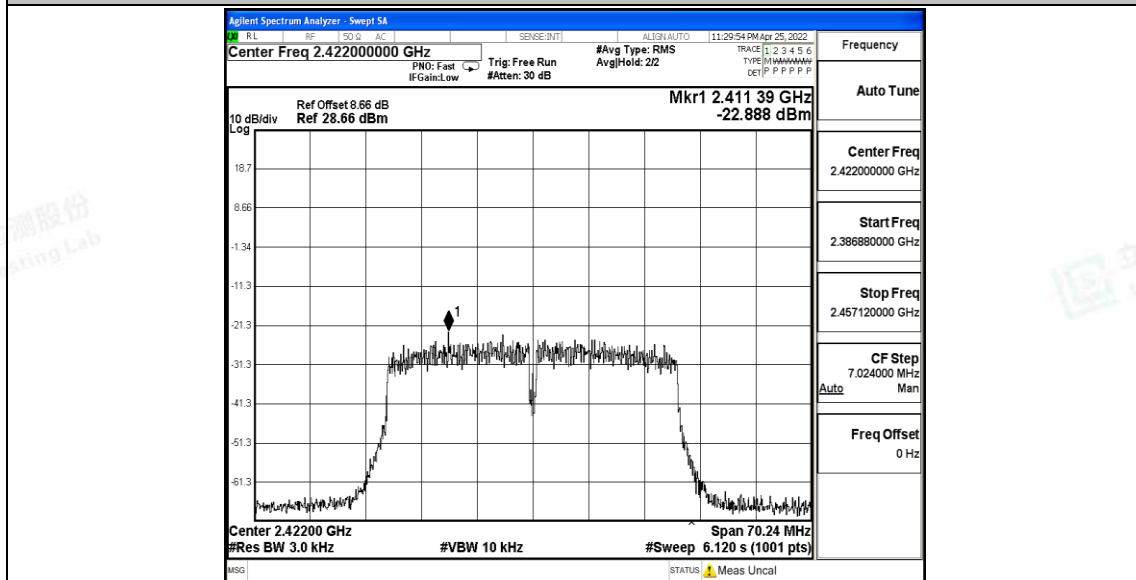
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

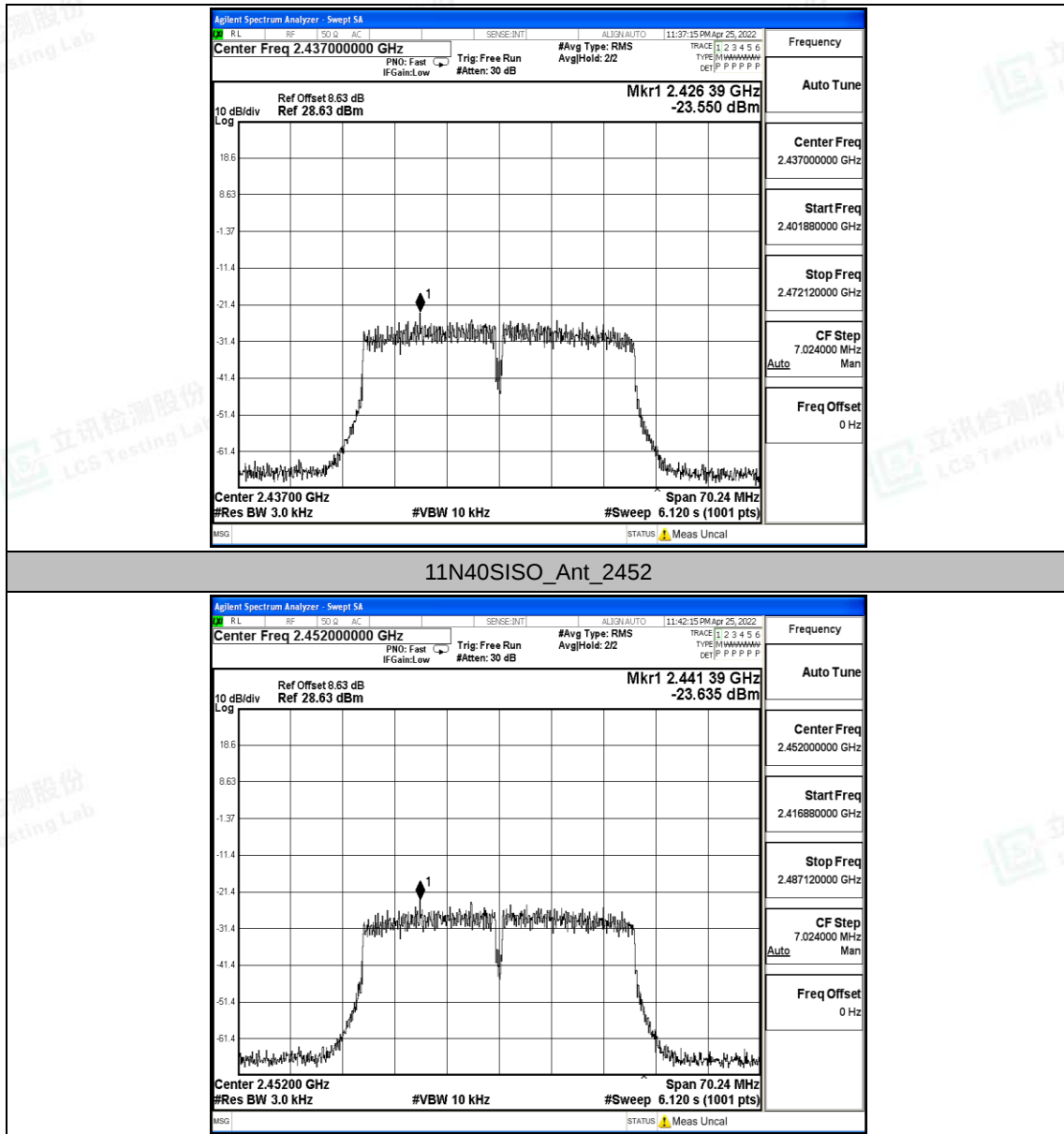


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C.4 Band edge measurements

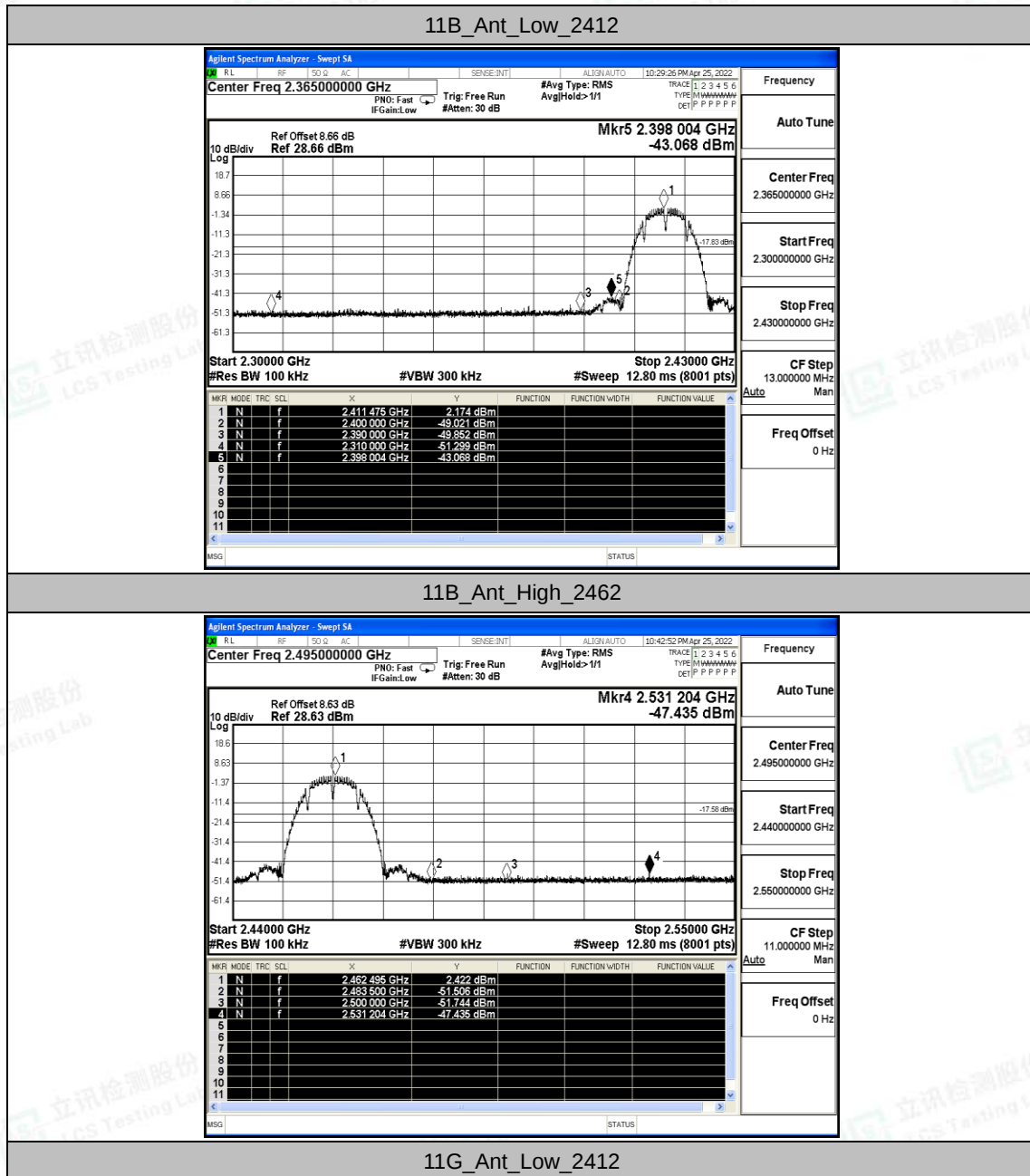
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	2.17	-43.07	≤-17.83	PASS
		High	2462	2.42	-47.44	≤-17.58	PASS
11G	Ant	Low	2412	-4.96	-43.29	≤-24.96	PASS
		High	2462	-6.21	-47.97	≤-26.21	PASS
11N20SISO	Ant	Low	2412	-6.30	-43.16	≤-26.3	PASS
		High	2462	-6.99	-47.63	≤-26.99	PASS
11N40SISO	Ant	Low	2422	-9.25	-46.38	≤-29.25	PASS
		High	2452	-10.02	-47.78	≤-30.02	PASS





Test Graphs

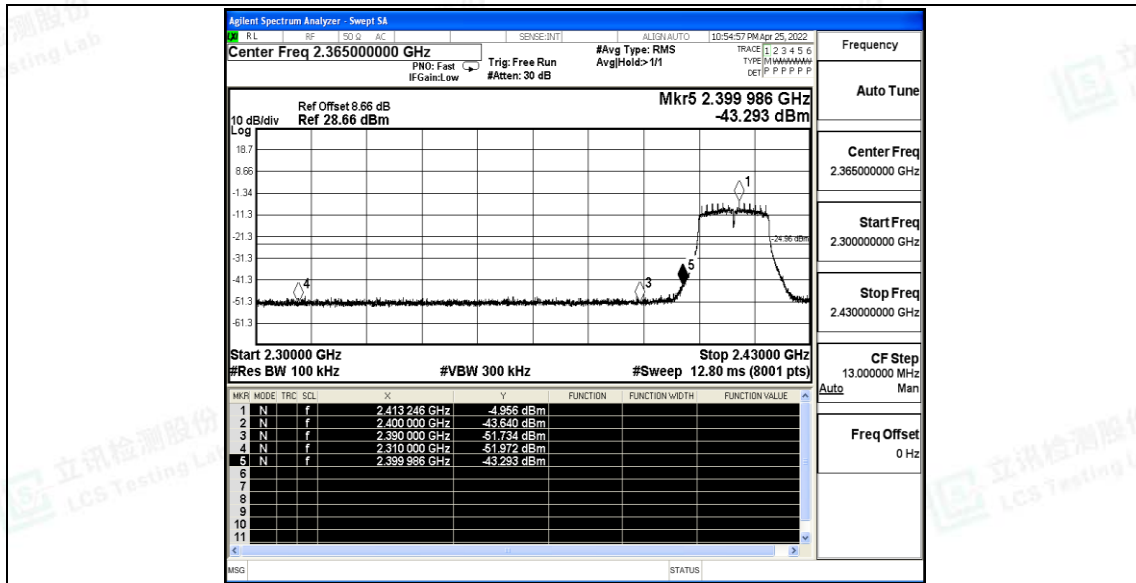


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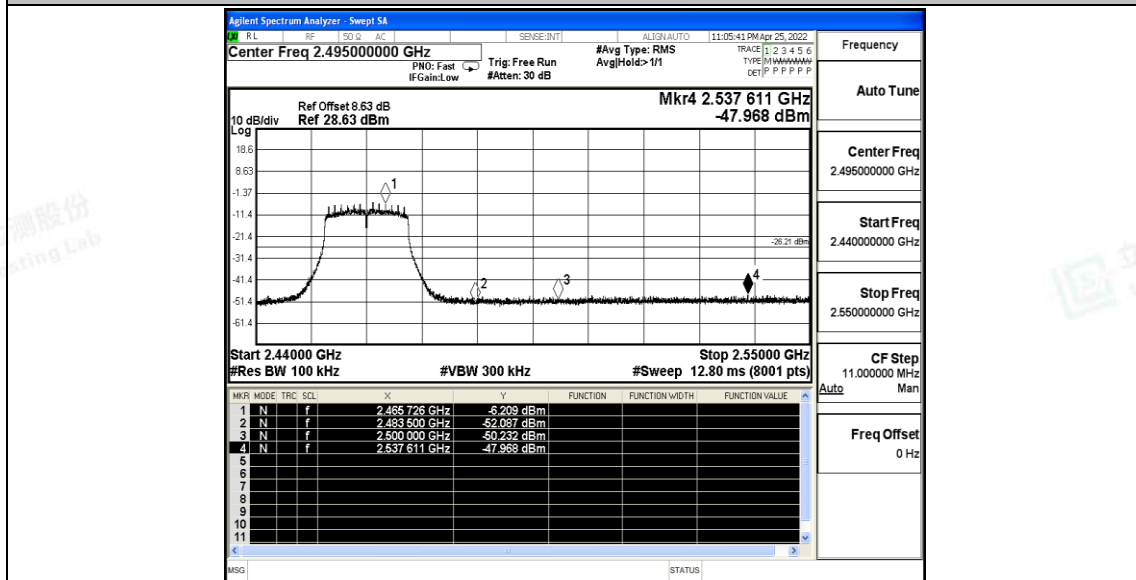
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

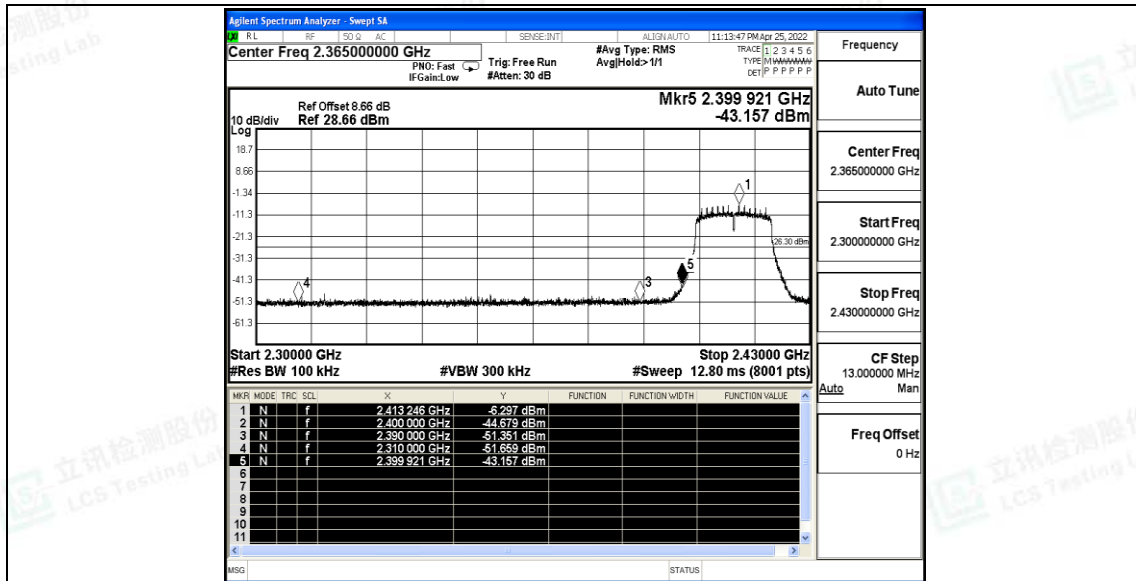


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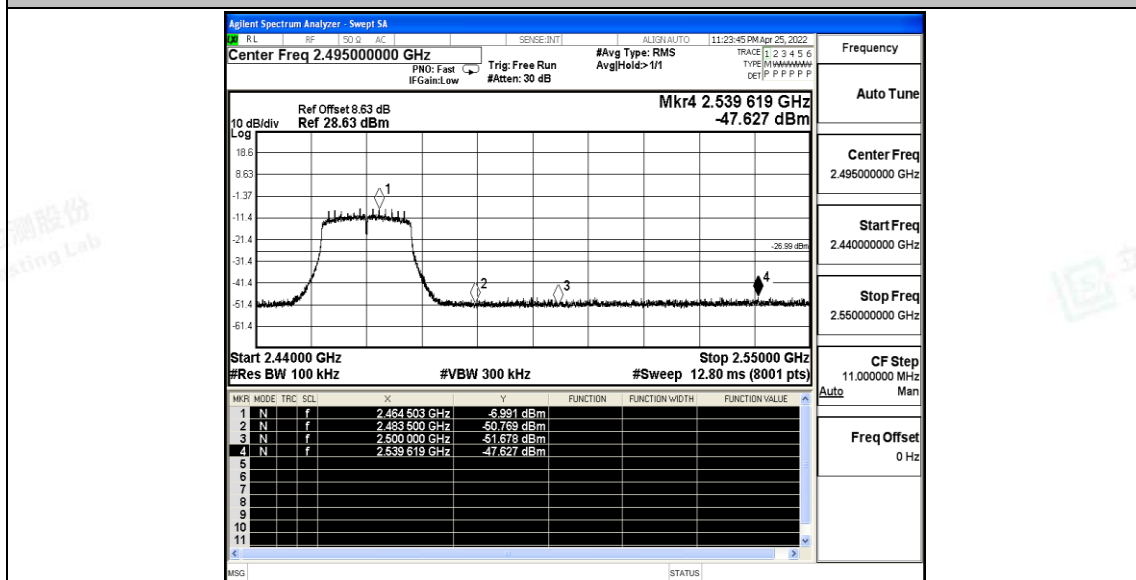
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11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

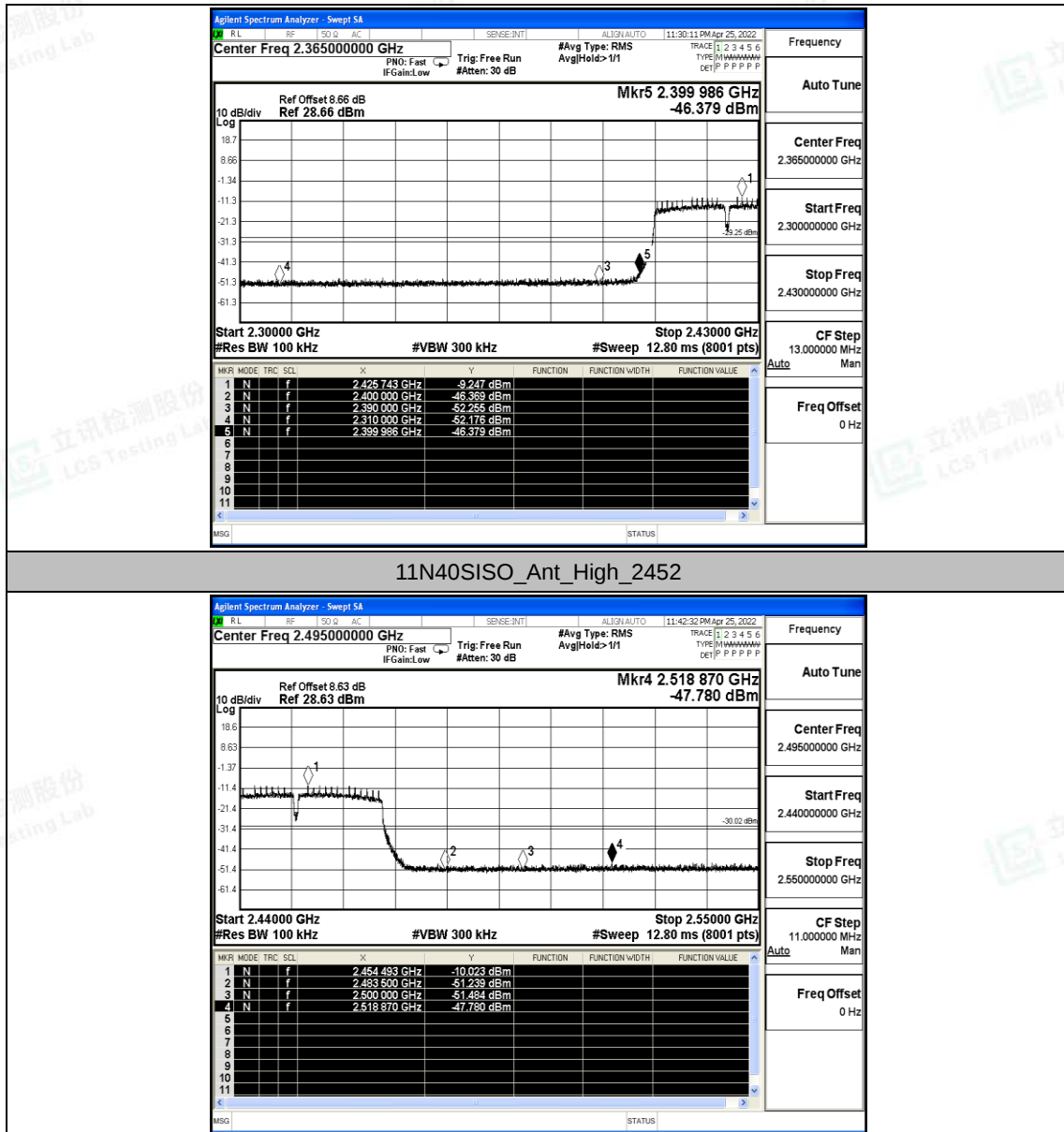


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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-38.7	≤-17.44	PASS
			1000~26500	2.56	-46.28	≤-17.44	PASS
		2437	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-34.69	≤-18.2	PASS
			1000~26500	1.80	-46.17	≤-18.2	PASS
		2462	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-47.99	≤-17.52	PASS
			1000~26500	2.48	-46.09	≤-17.52	PASS
11G	Ant	2412	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-60.29	≤-25	PASS
			1000~26500	-5.00	-45.89	≤-25	PASS
		2437	Reference	-6.03	-6.03	---	PASS
			30~1000	-6.03	-39.64	≤-26.03	PASS
			1000~26500	-6.03	-45.94	≤-26.03	PASS
		2462	Reference	-5.72	-5.72	---	PASS
			30~1000	-5.72	-60.92	≤-25.72	PASS
			1000~26500	-5.72	-46.04	≤-25.72	PASS
11N20SISO	Ant	2412	Reference	-6.94	-6.94	---	PASS
			30~1000	-6.94	-60.06	≤-26.94	PASS
			1000~26500	-6.94	-45.77	≤-26.94	PASS
		2437	Reference	-6.92	-6.92	---	PASS
			30~1000	-6.92	-60.61	≤-26.92	PASS
			1000~26500	-6.92	-45.51	≤-26.92	PASS
		2462	Reference	-6.54	-6.54	---	PASS
			30~1000	-6.54	-60.82	≤-26.54	PASS
			1000~26500	-6.54	-46.31	≤-26.54	PASS
11N40SISO	Ant	2422	Reference	-9.24	-9.24	---	PASS
			30~1000	-9.24	-60.88	≤-29.24	PASS
			1000~26500	-9.24	-45.32	≤-29.24	PASS
		2437	Reference	-10.03	-10.03	---	PASS
			30~1000	-10.03	-59.74	≤-30.03	PASS
			1000~26500	-10.03	-46.27	≤-30.03	PASS
		2452	Reference	-9.87	-9.87	---	PASS
			30~1000	-9.87	-60.03	≤-29.87	PASS



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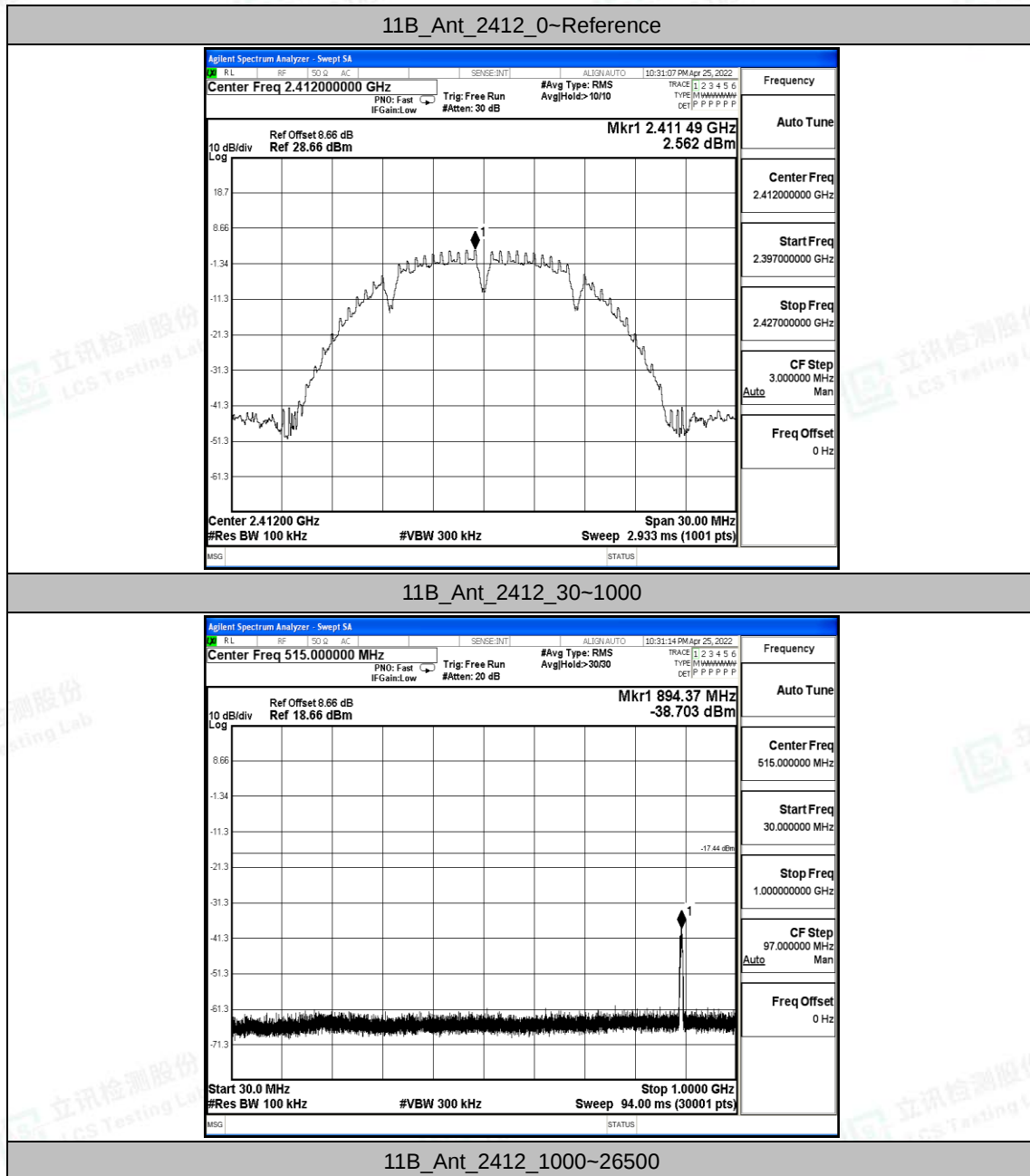


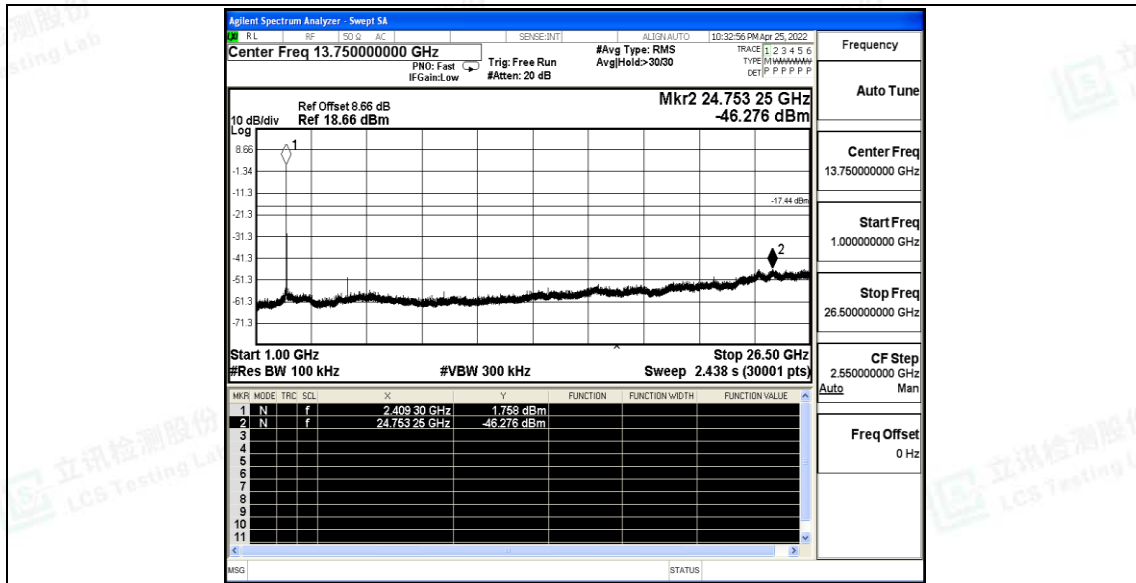
			1000~26500	-9.87	-45.01	≤-29.87	PASS
--	--	--	------------	-------	--------	---------	------



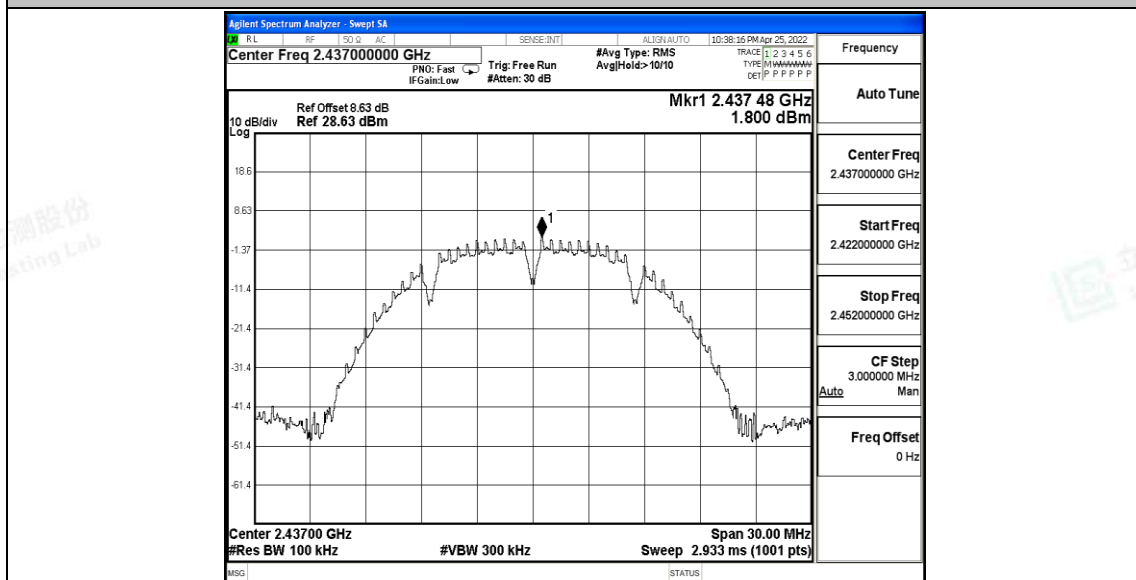


Test Graphs





11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

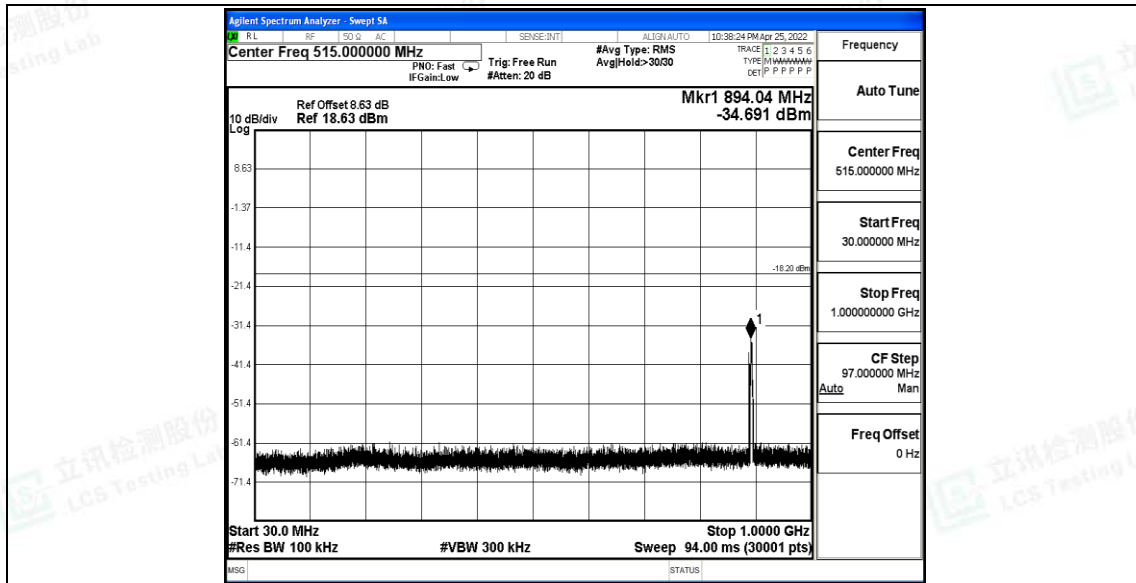


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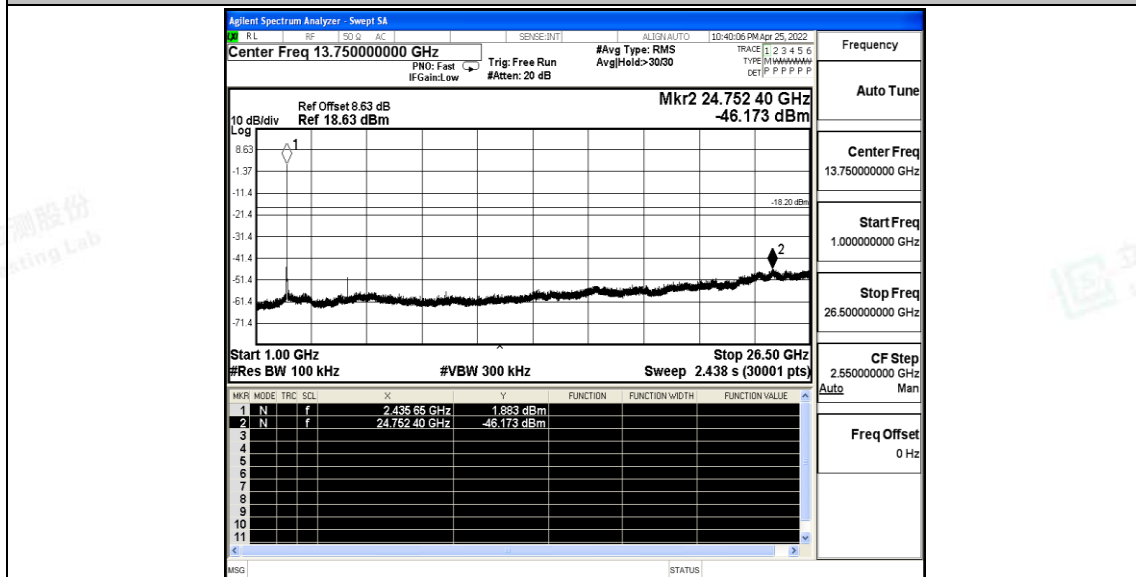
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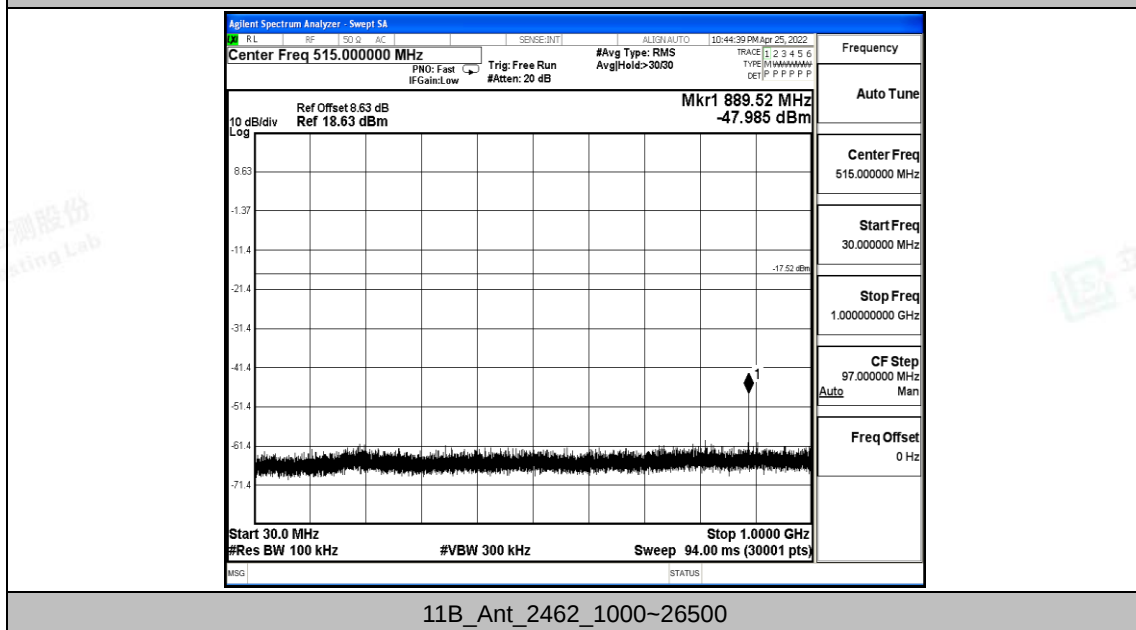
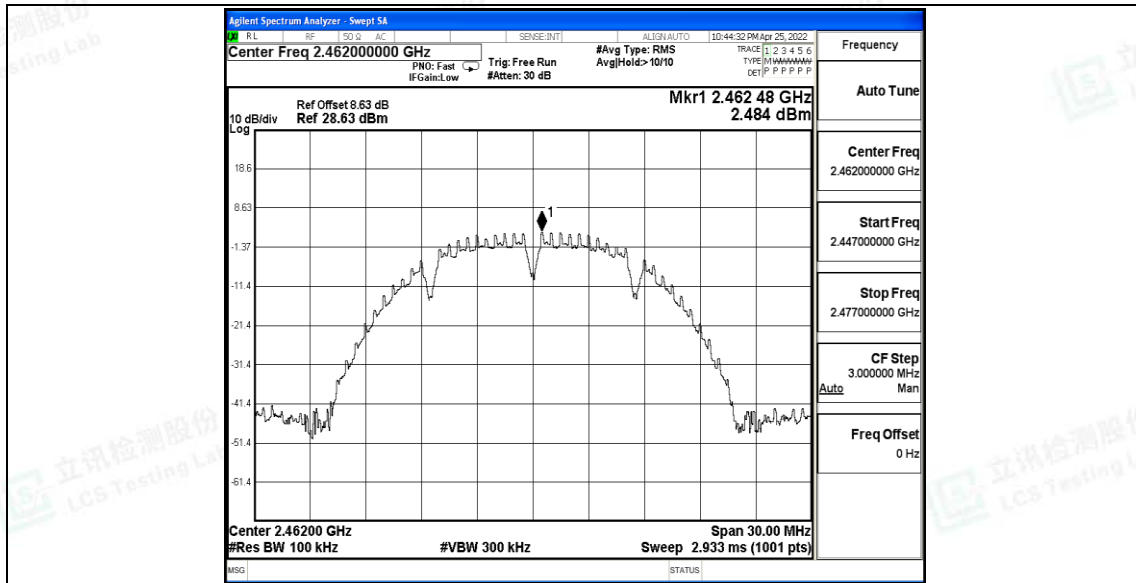


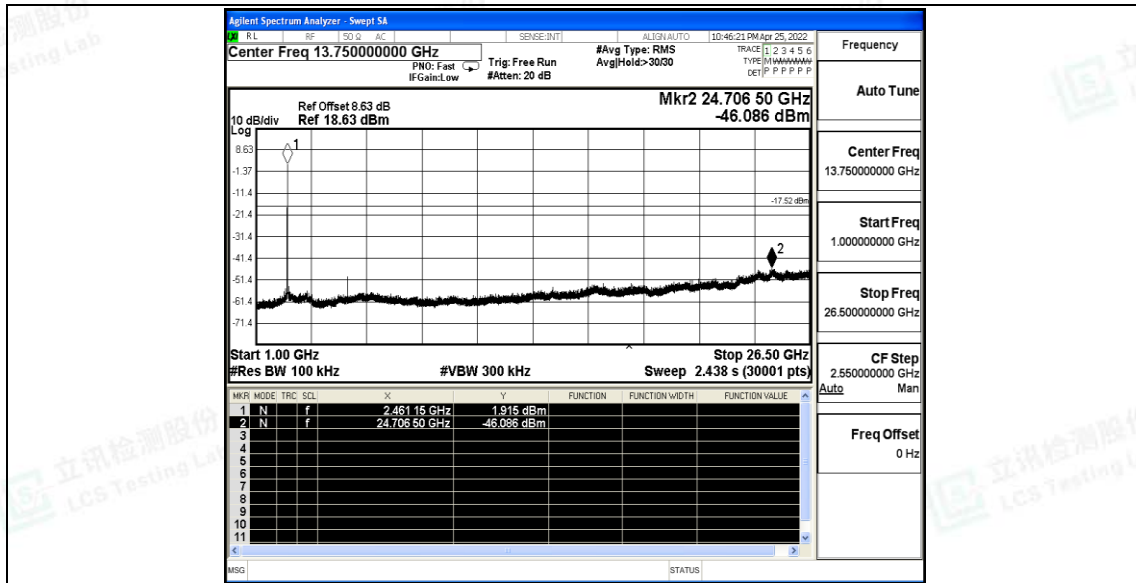
11B_Ant_2437_1000~26500



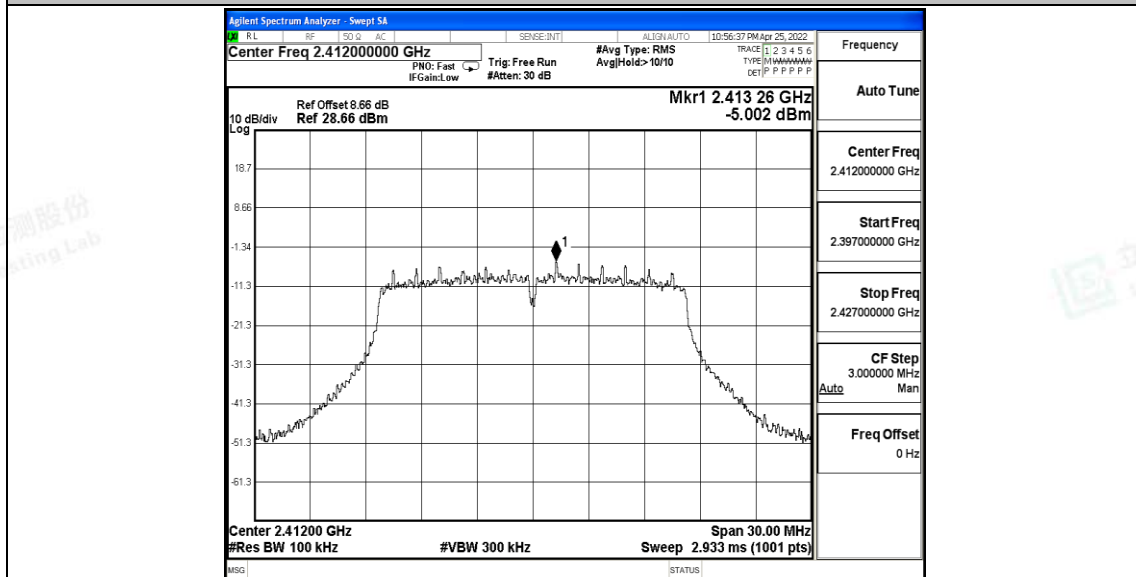
11B_Ant_2462_0~Reference







11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000

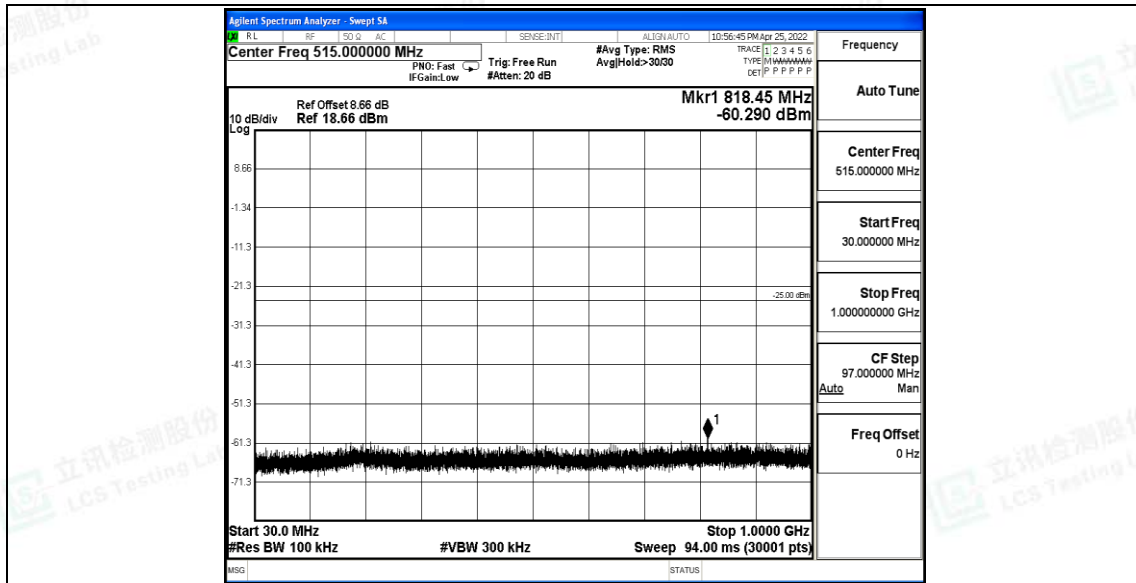


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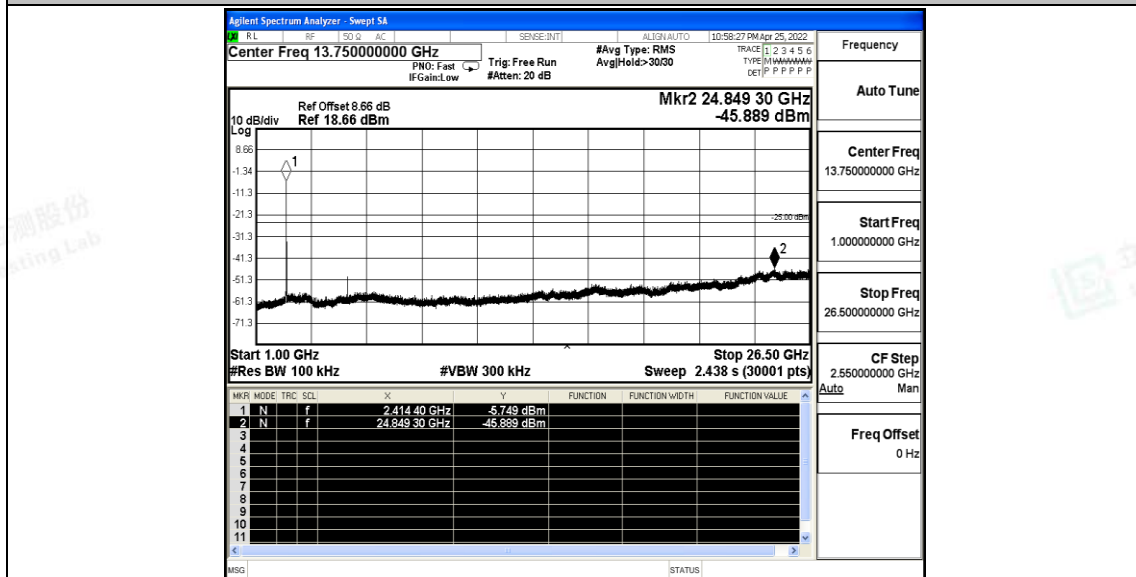
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11G_Ant_2412_1000~26500



11G_Ant_2437_0~Reference

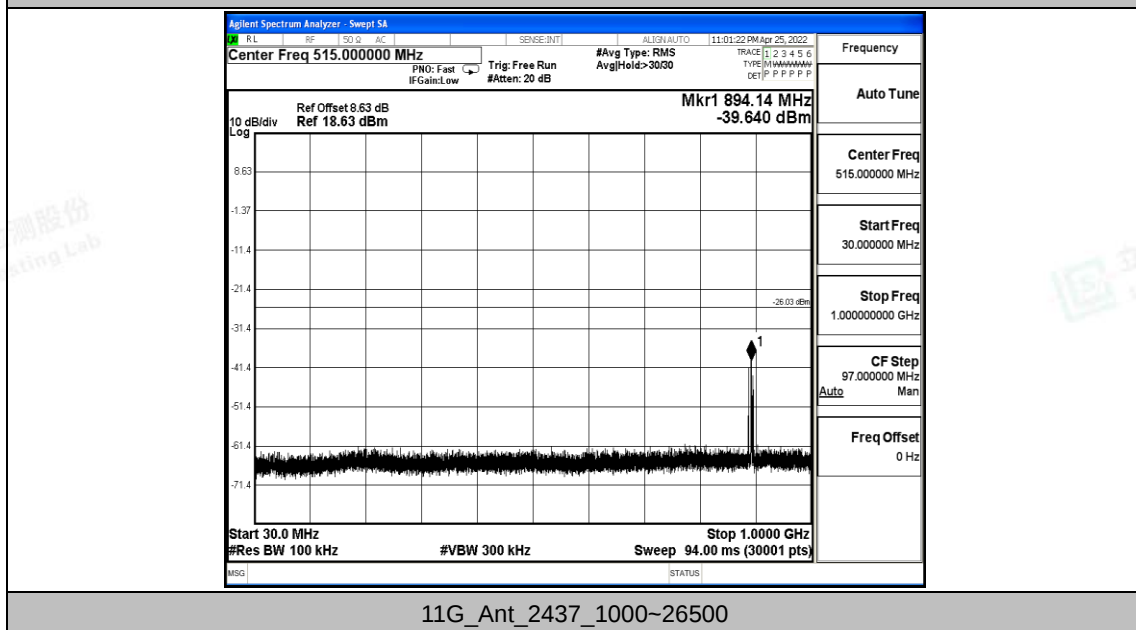
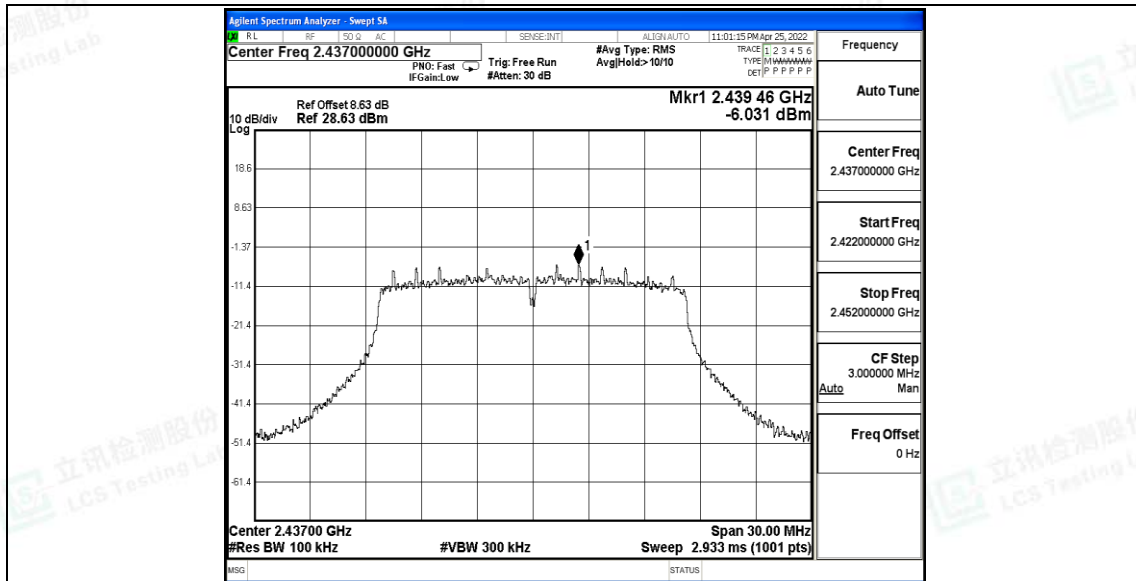


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