



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LEGENDS PINBALL MICRO

Test Model: HA8818

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li huan</i> Li huan





C.1 DTS Bandwidth

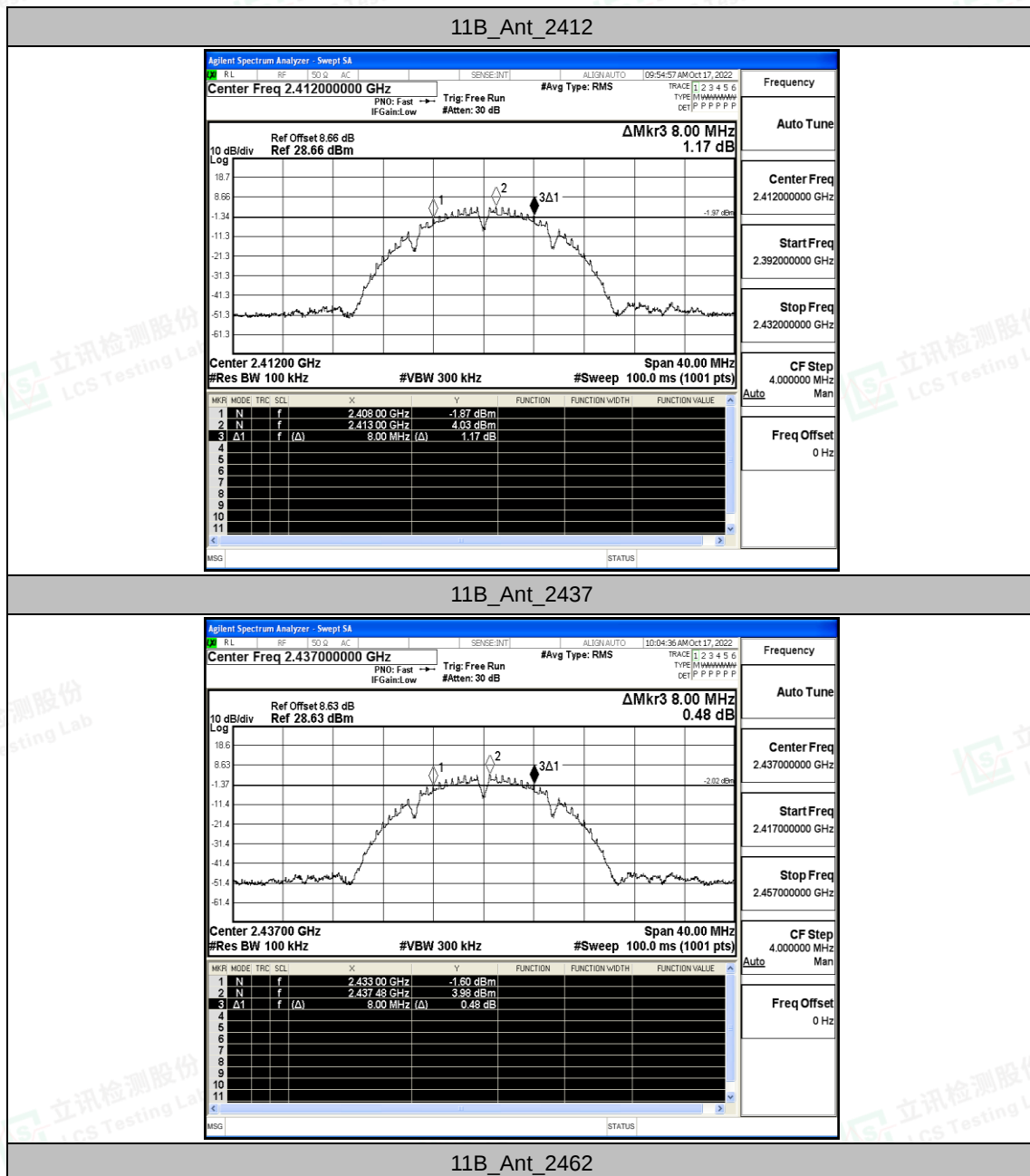
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	8.000	2408.000	2416.00	0.5	PASS
		2437	8.000	2433.000	2441.000	0.5	PASS
		2462	8.000	2457.520	2465.520	0.5	PASS
11G	Ant	2412	15.080	2404.480	2419.560	0.5	PASS
		2437	15.440	2429.440	2444.880	0.5	PASS
		2462	15.640	2453.880	2469.520	0.5	PASS
11N20SISO	Ant	2412	15.400	2404.480	2419.880	0.5	PASS
		2437	15.400	2429.440	2444.840	0.5	PASS
		2462	16.320	2453.240	2469.560	0.5	PASS
11N40SISO	Ant	2422	33.840	2405.680	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	32.480	2434.480	2466.960	0.5	PASS





Test Graphs

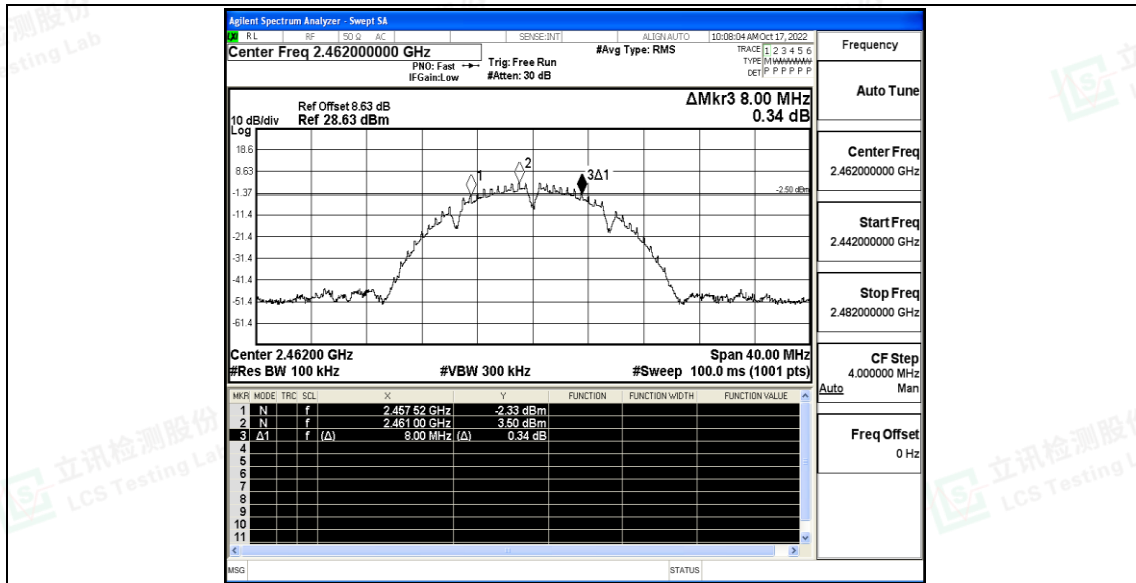


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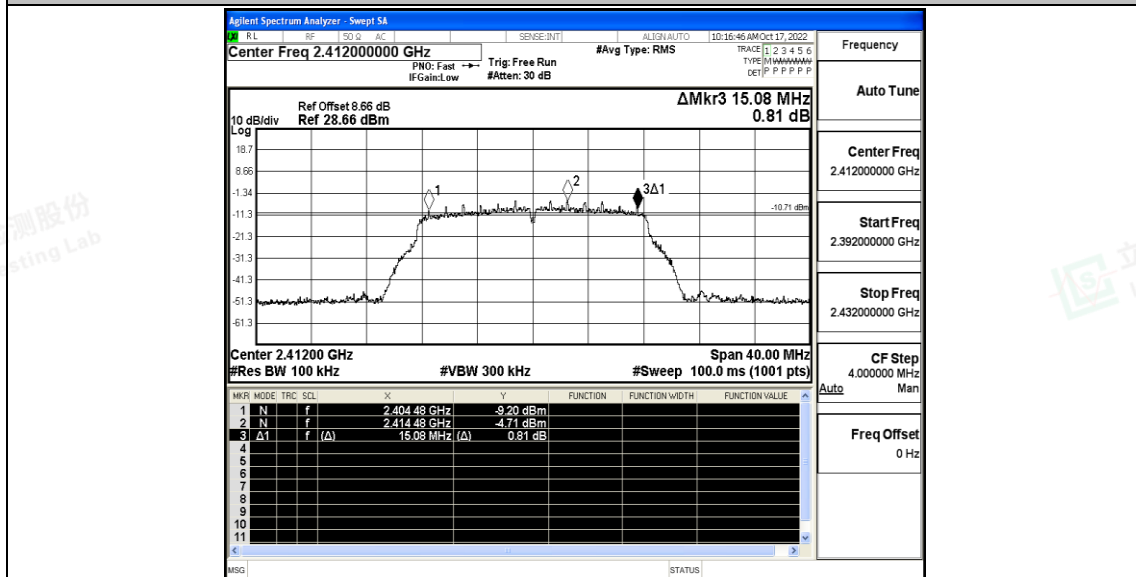
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11G_Ant_2412



11G_Ant_2437

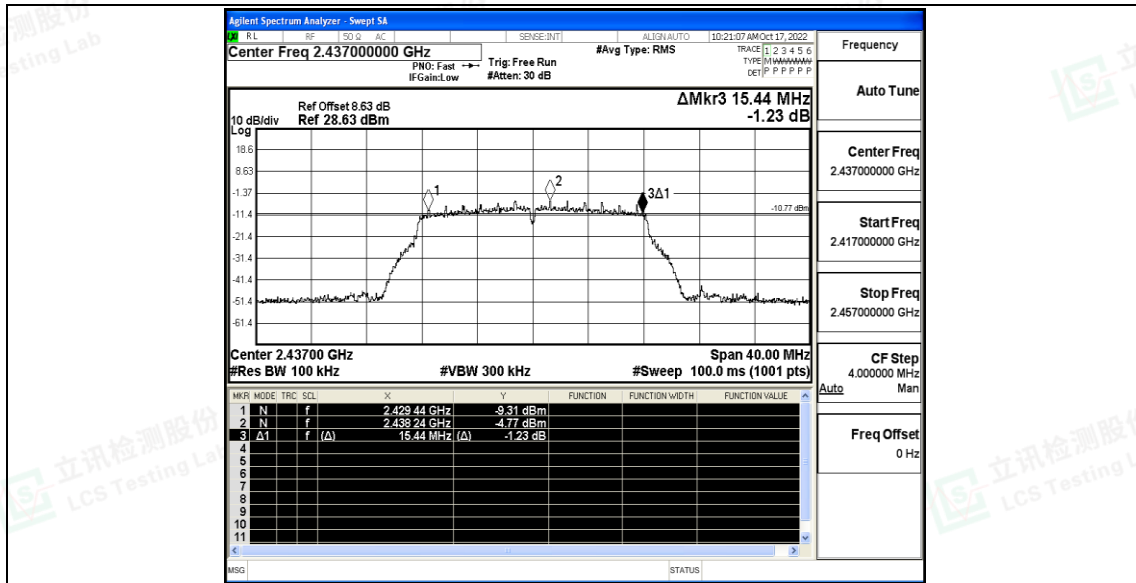


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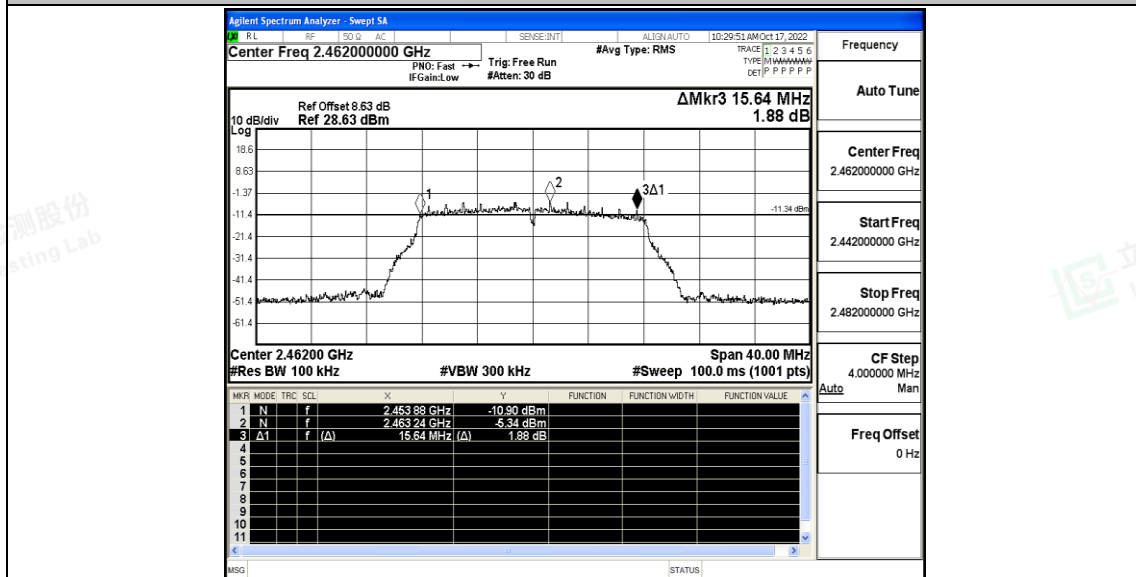
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11G_Ant_2462



11N20SISO_Ant_2412

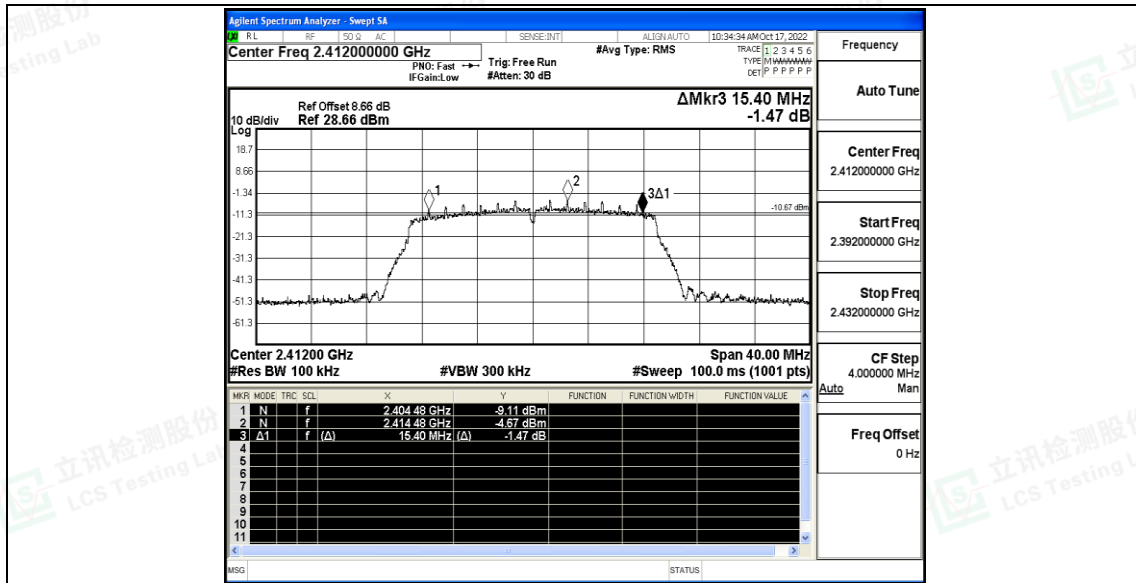


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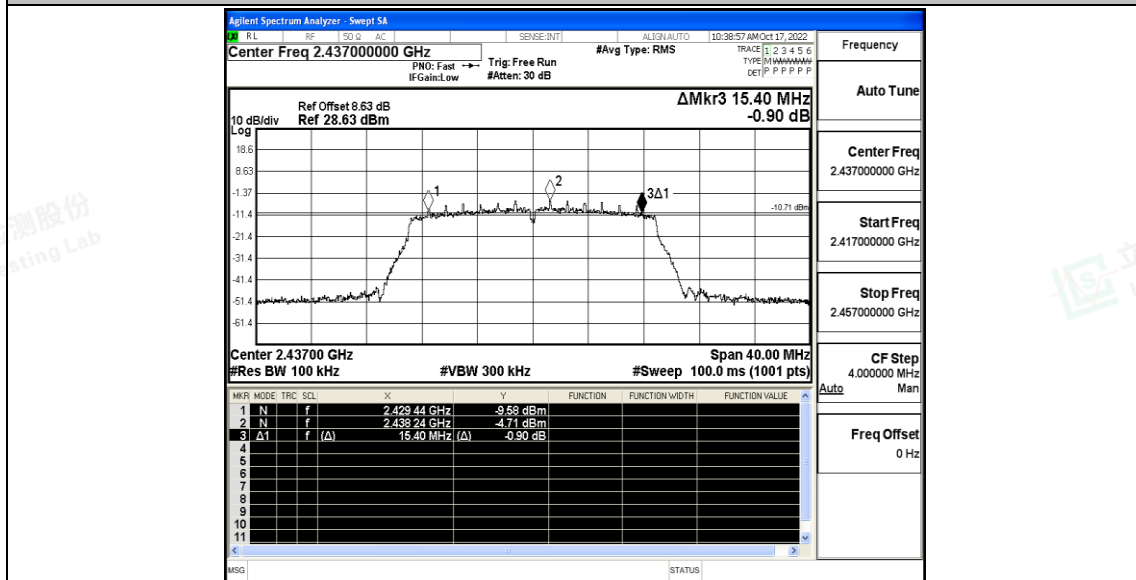
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

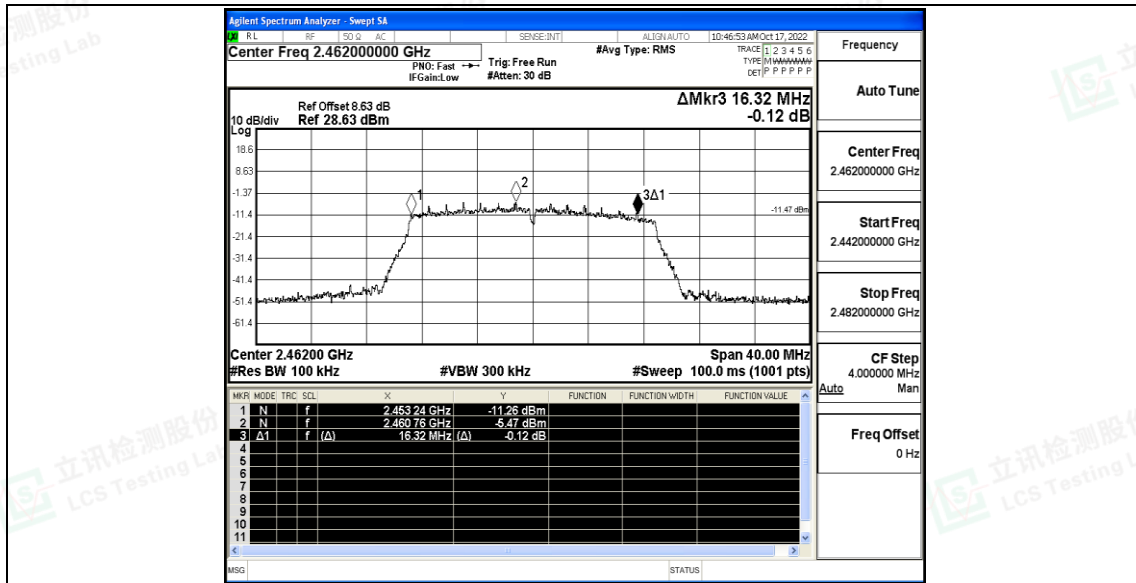


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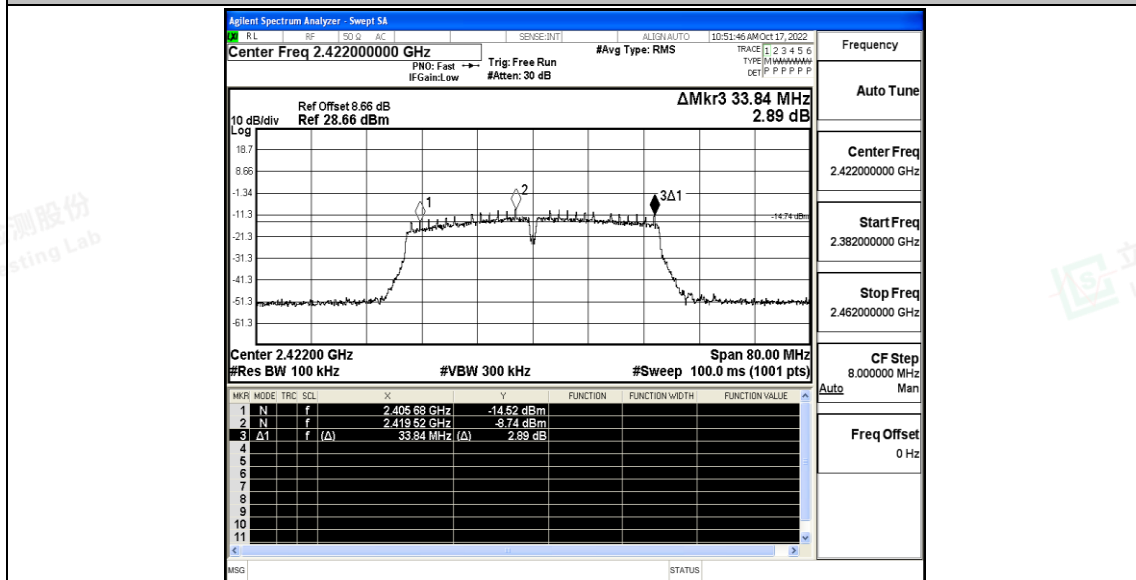
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11N40SISO_Ant_2422



11N40SISO_Ant_2437





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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	14.95	≤30.00	PASS
		2437	15.08	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11G	Ant	2412	13.95	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	13.61	≤30.00	PASS
11N20SISO	Ant	2412	13.81	≤30.00	PASS
		2437	13.96	≤30.00	PASS
		2462	13.54	≤30.00	PASS
11N40SISO	Ant	2422	12.50	≤30.00	PASS
		2437	12.43	≤30.00	PASS
		2452	12.36	≤30.00	PASS





C.3 Maximum power spectral density

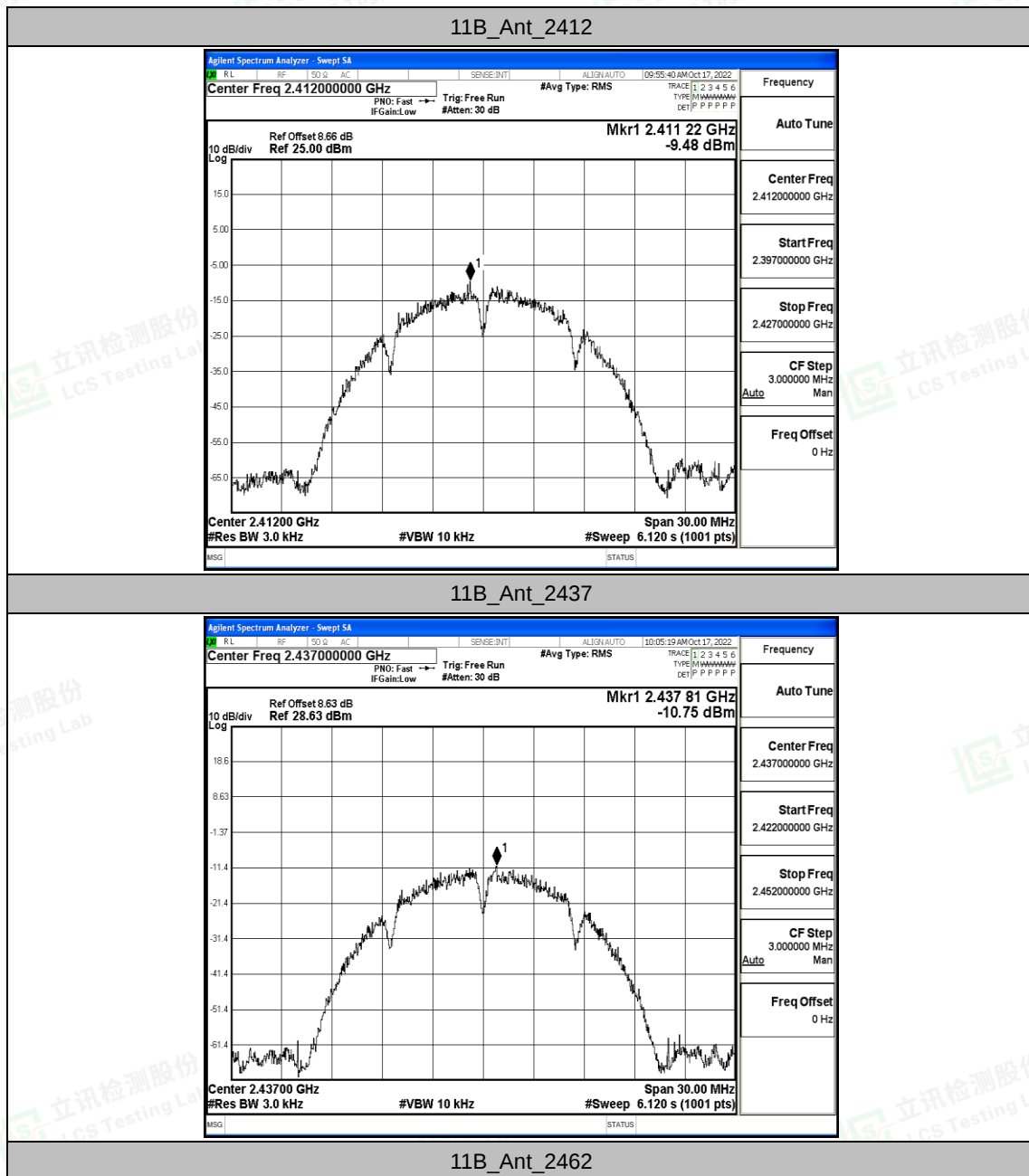
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant	2412	-9.48	≤8.00	PASS
		2437	-10.75	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11G	Ant	2412	-19.75	≤8.00	PASS
		2437	-18.17	≤8.00	PASS
		2462	-19.68	≤8.00	PASS
11N20SISO	Ant	2412	-19.37	≤8.00	PASS
		2437	-19.19	≤8.00	PASS
		2462	-18.27	≤8.00	PASS
11N40SISO	Ant	2422	-24.11	≤8.00	PASS
		2437	-23.42	≤8.00	PASS
		2452	-24.02	≤8.00	PASS





Test Graphs

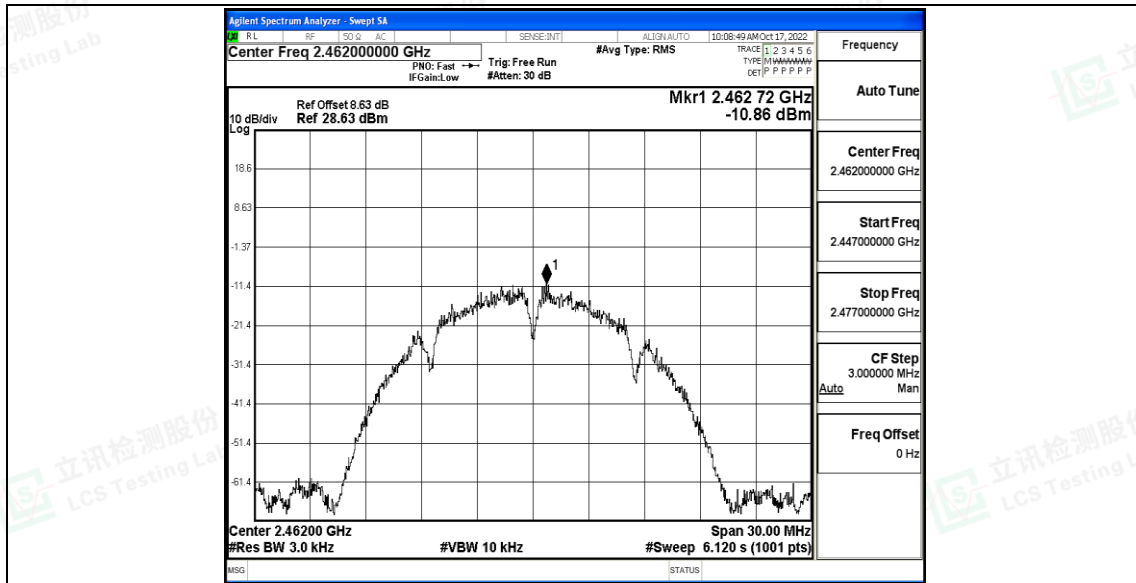


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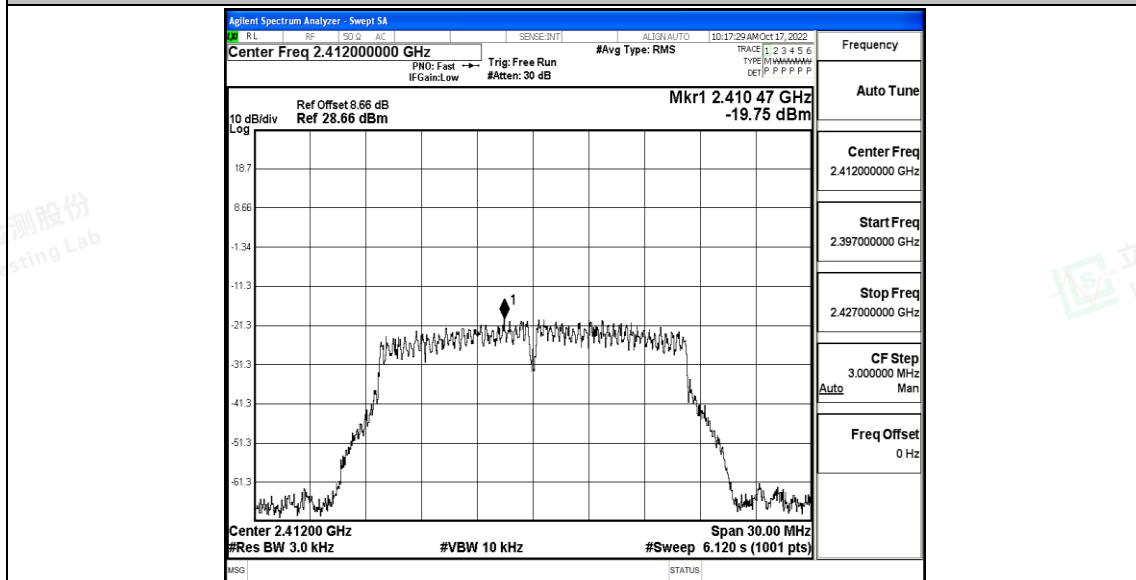
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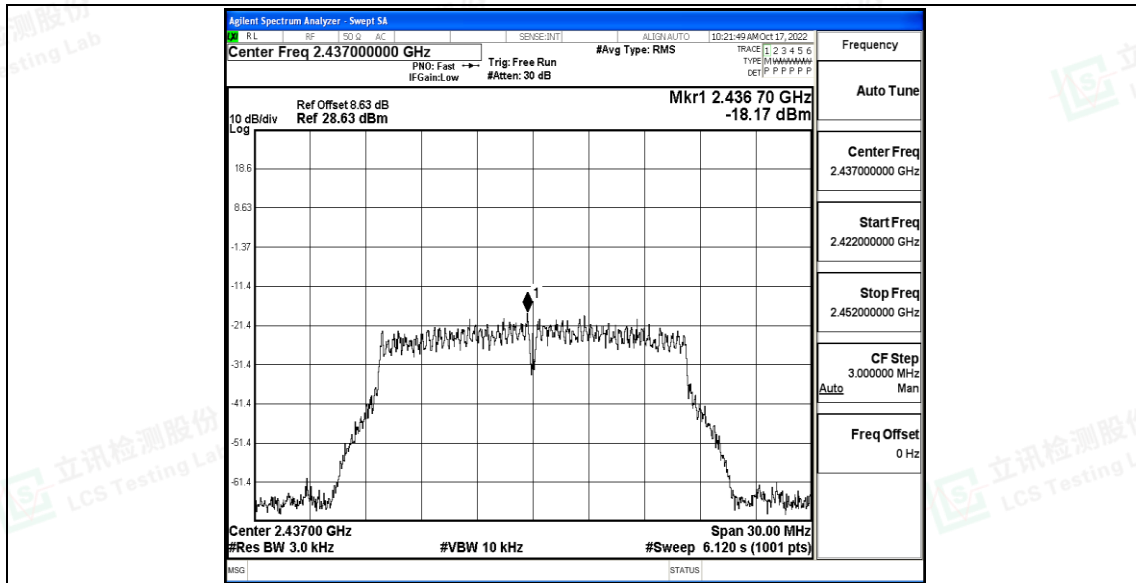


11G_Ant_2412

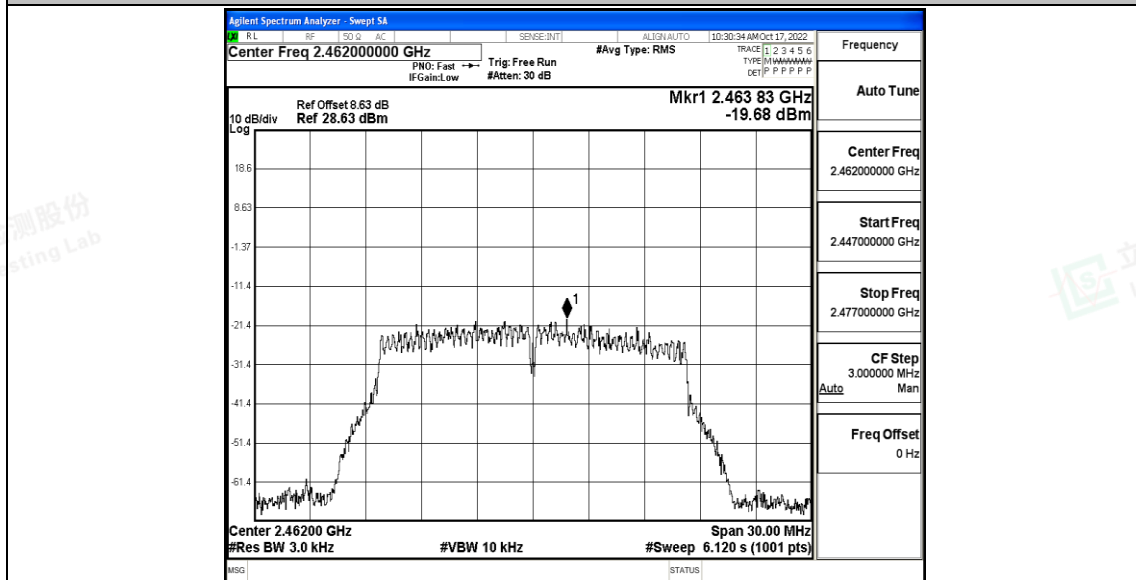


11G_Ant_2437



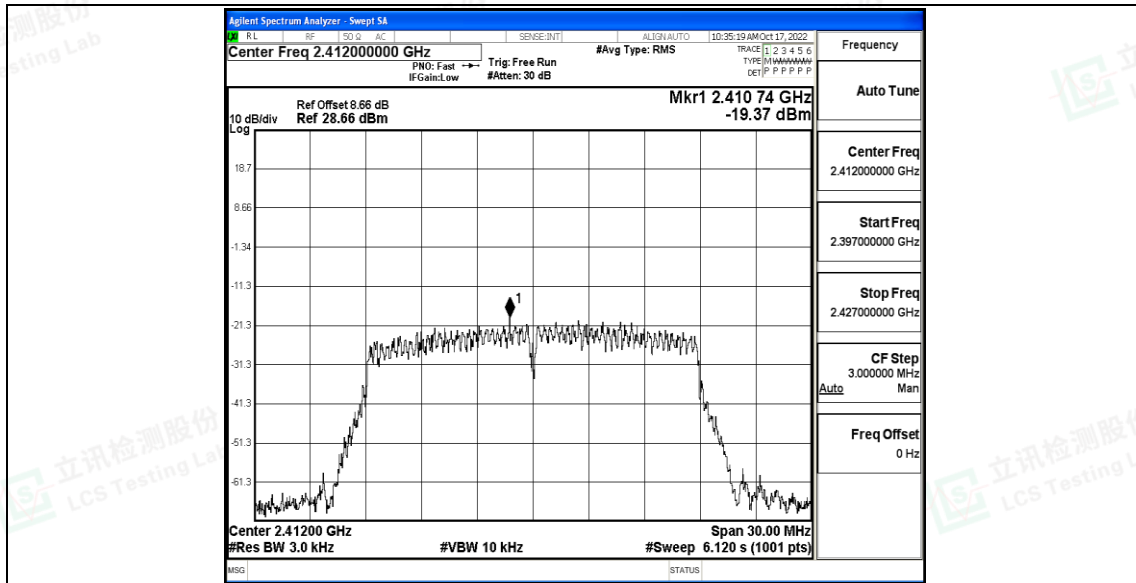


11G_Ant_2462

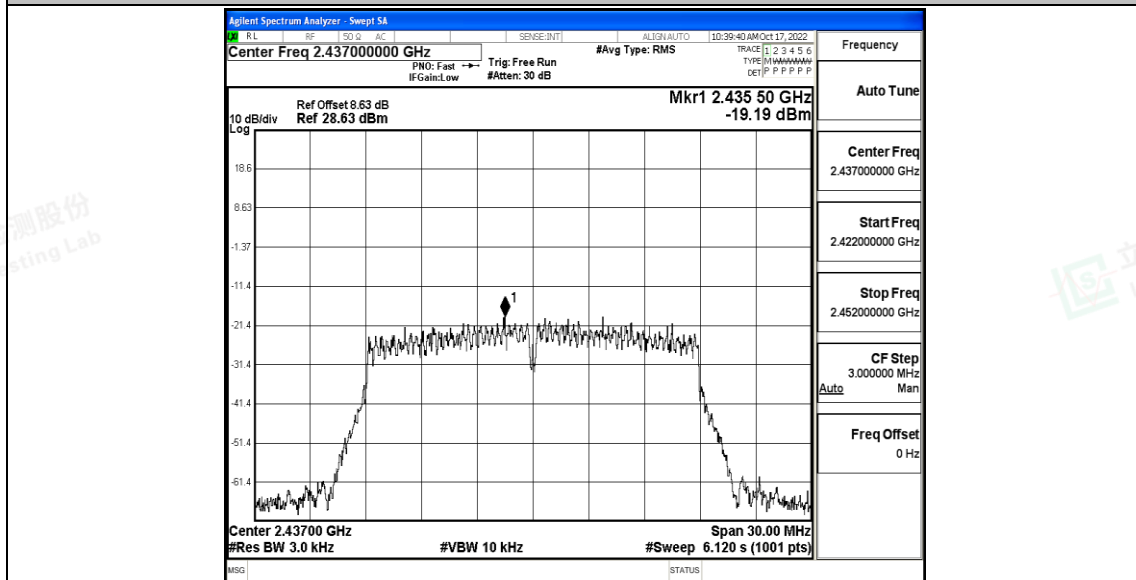


11N20ISO_Ant_2412



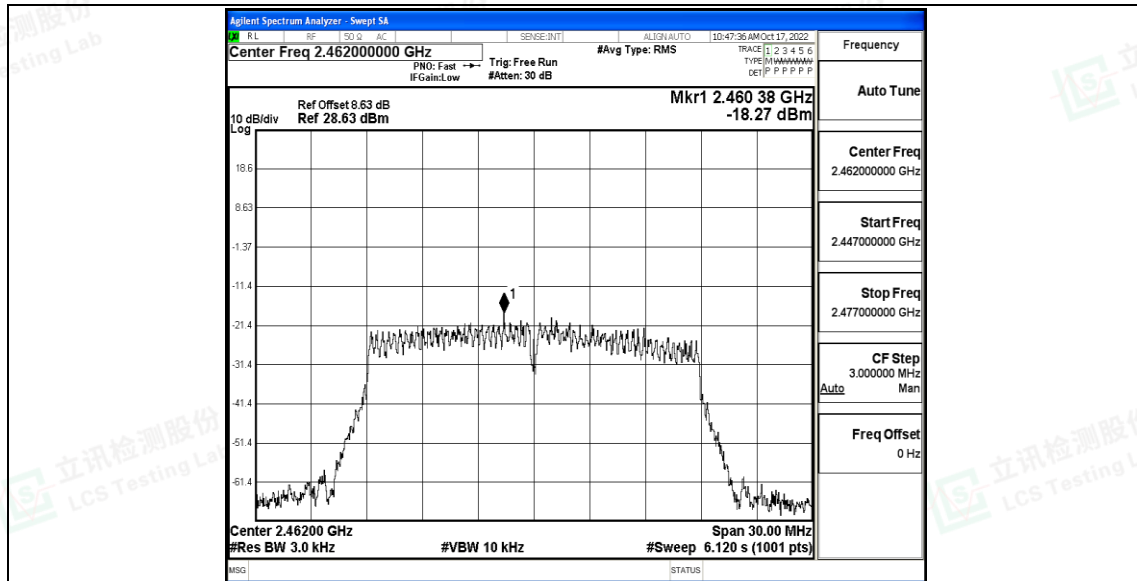


11N20SISO_Ant_2437

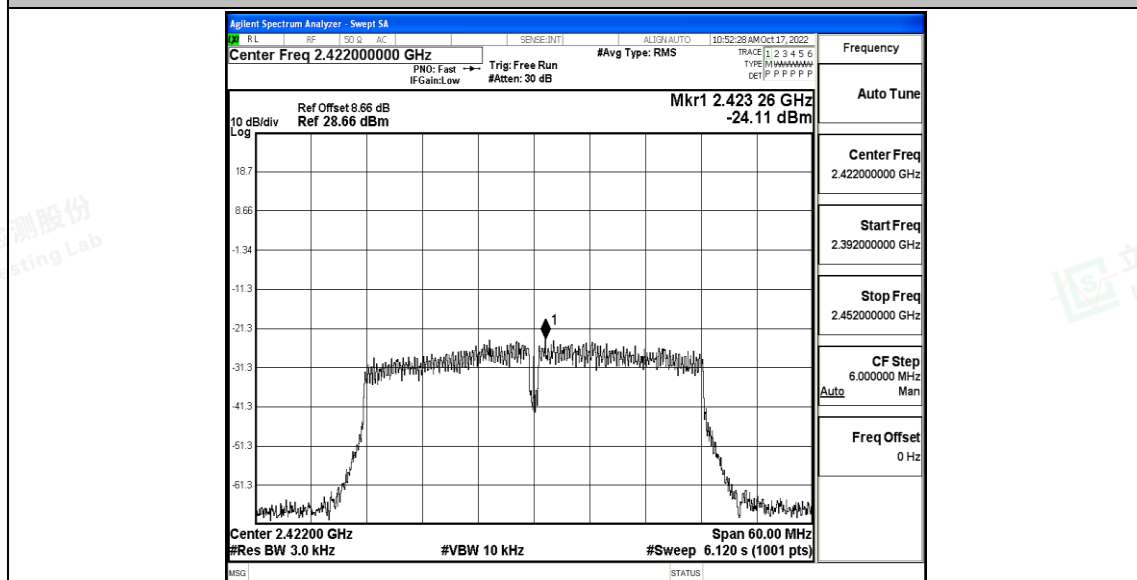


11N20SISO_Ant_2462



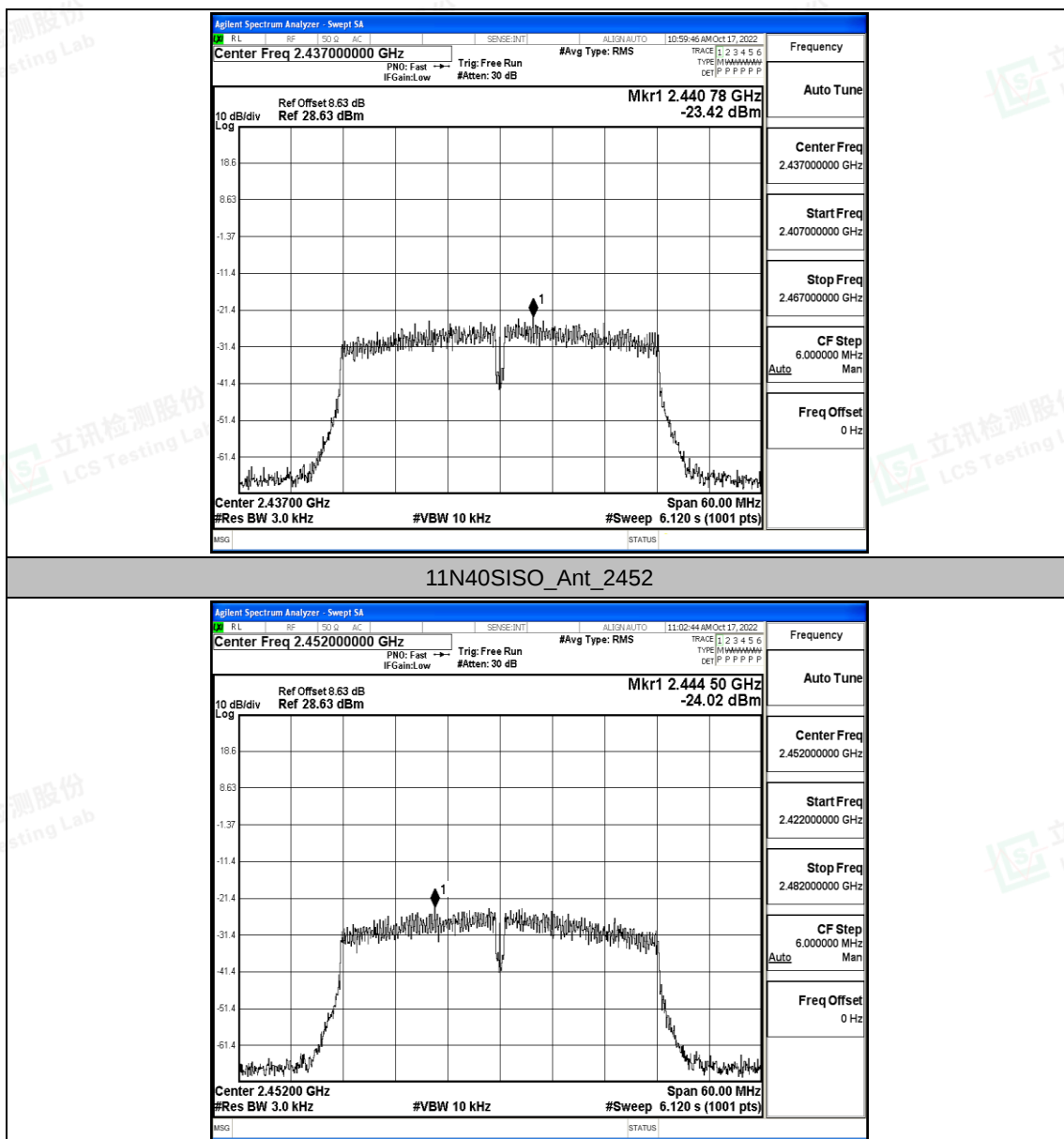


11N40SISO_Ant_2422



11N40SISO_Ant_2437







C.4 Band edge measurements

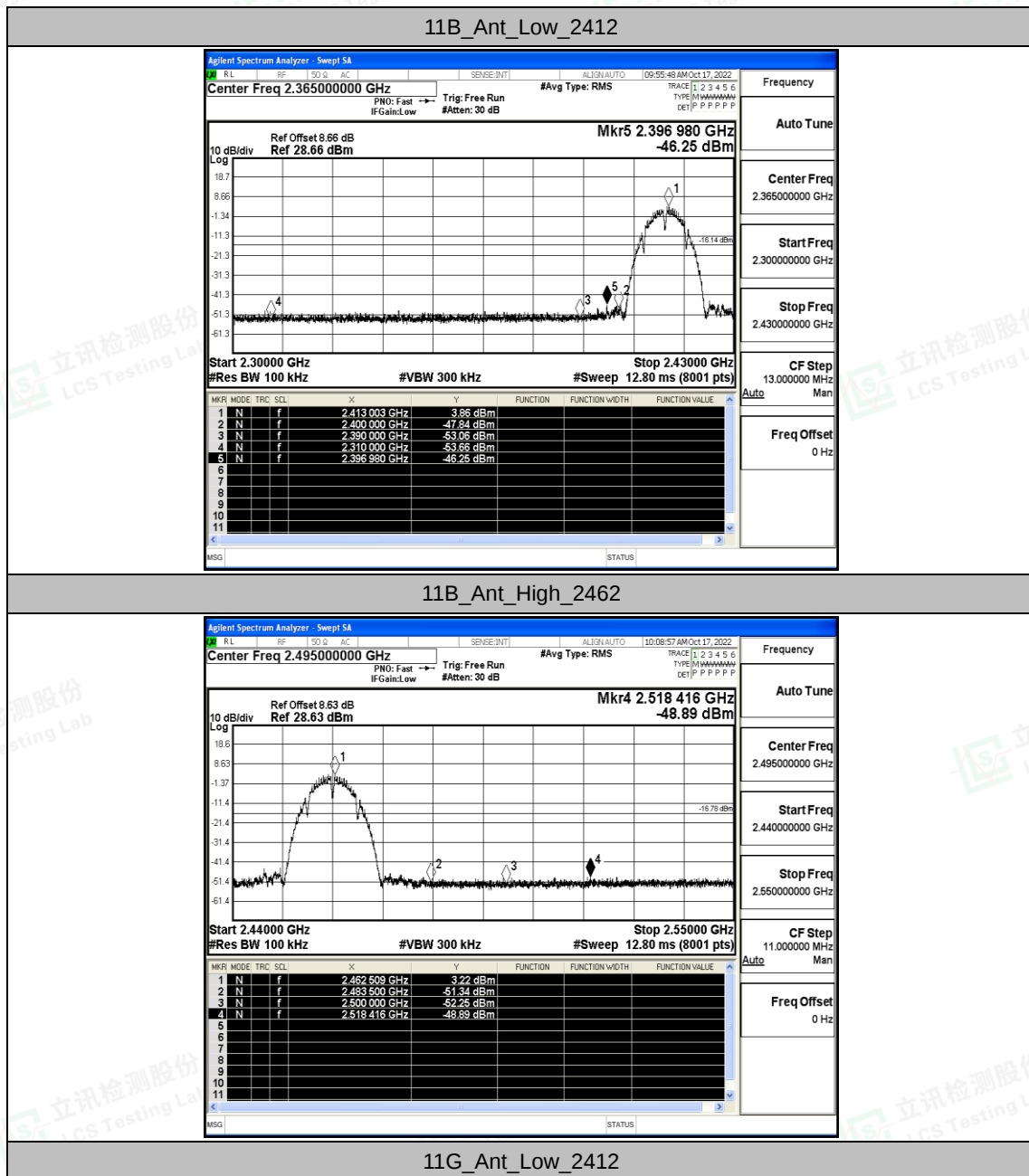
Test Result

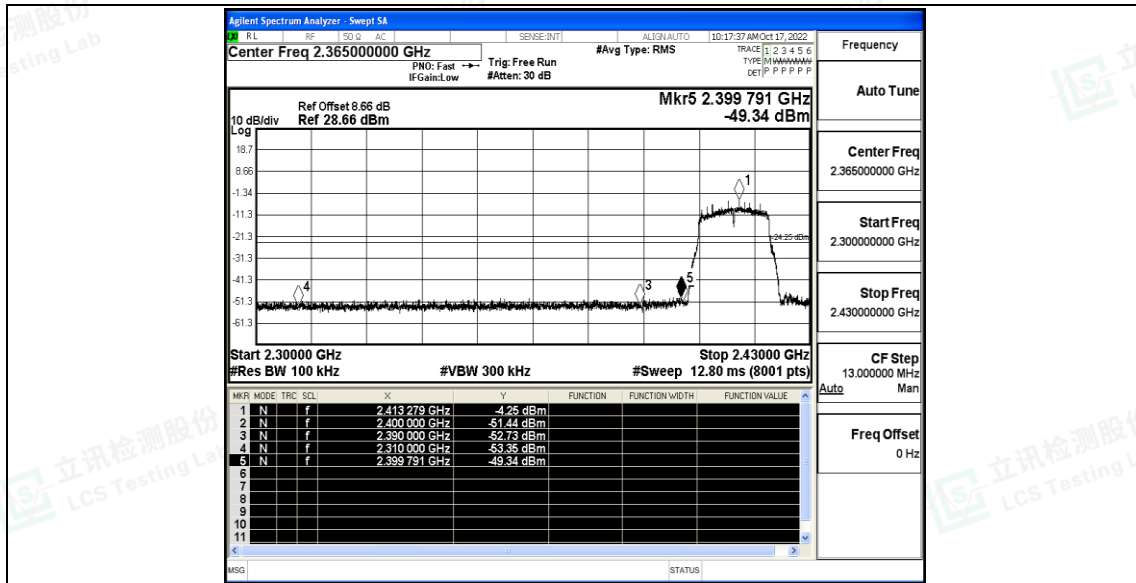
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	High	2462	3.22	-48.89	≤ -16.78	PASS
11G	Ant	Low	2412	-4.25	-49.34	≤ -24.25	PASS
		High	2462	-5.37	-48	≤ -25.37	PASS
11N20SISO	Ant	Low	2412	-4.31	-48.71	≤ -24.31	PASS
		High	2462	-5.18	-47.63	≤ -25.18	PASS
11N40SISO	Ant	Low	2422	-8.71	-49.31	≤ -28.71	PASS
		High	2452	-8.98	-48.78	≤ -28.98	PASS



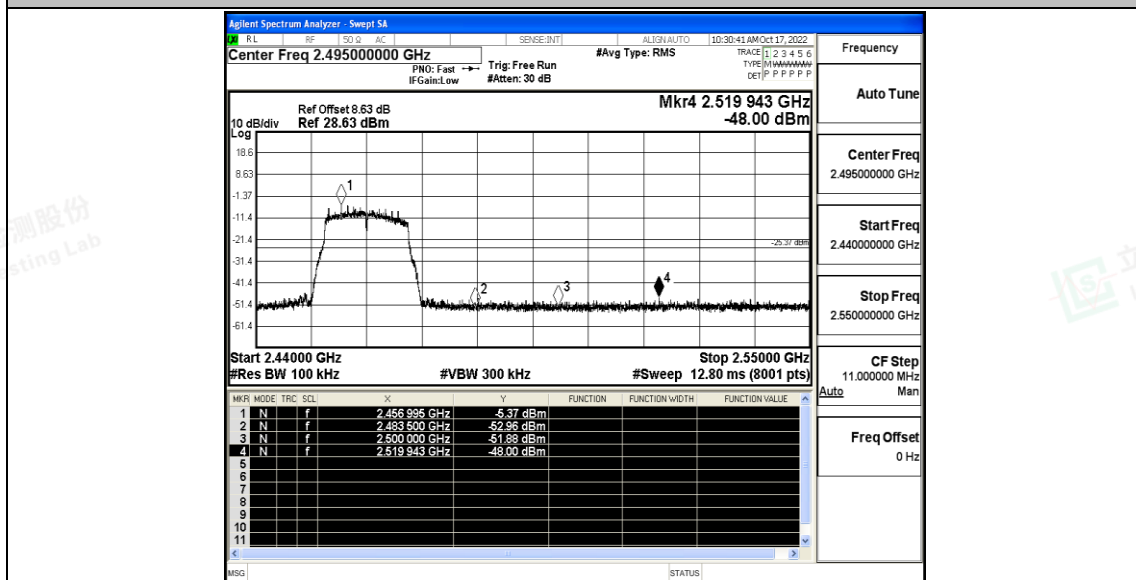


Test Graphs



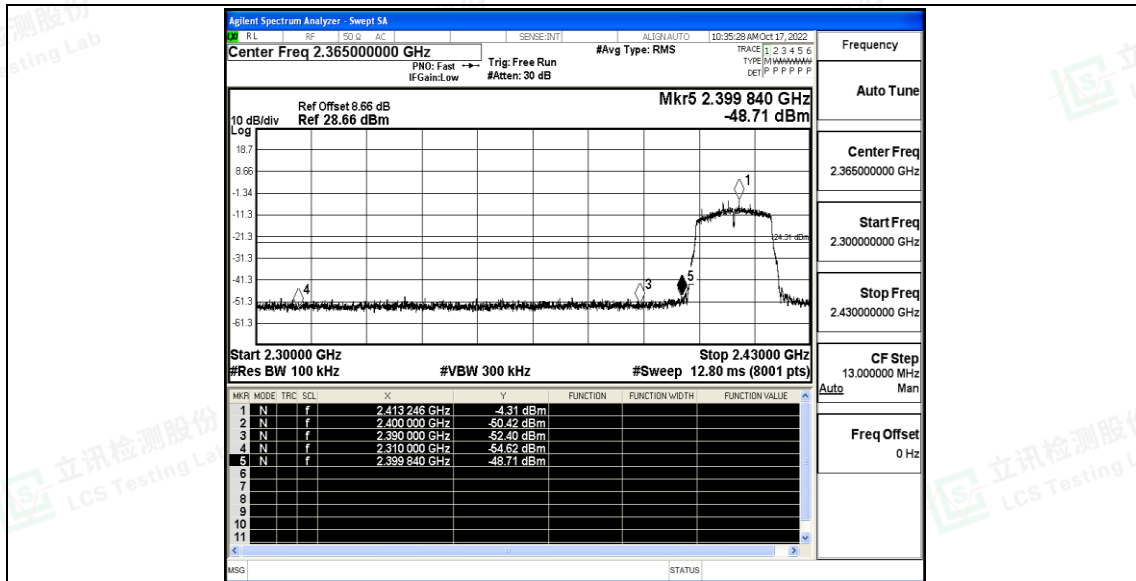


11G_Ant_High_2462

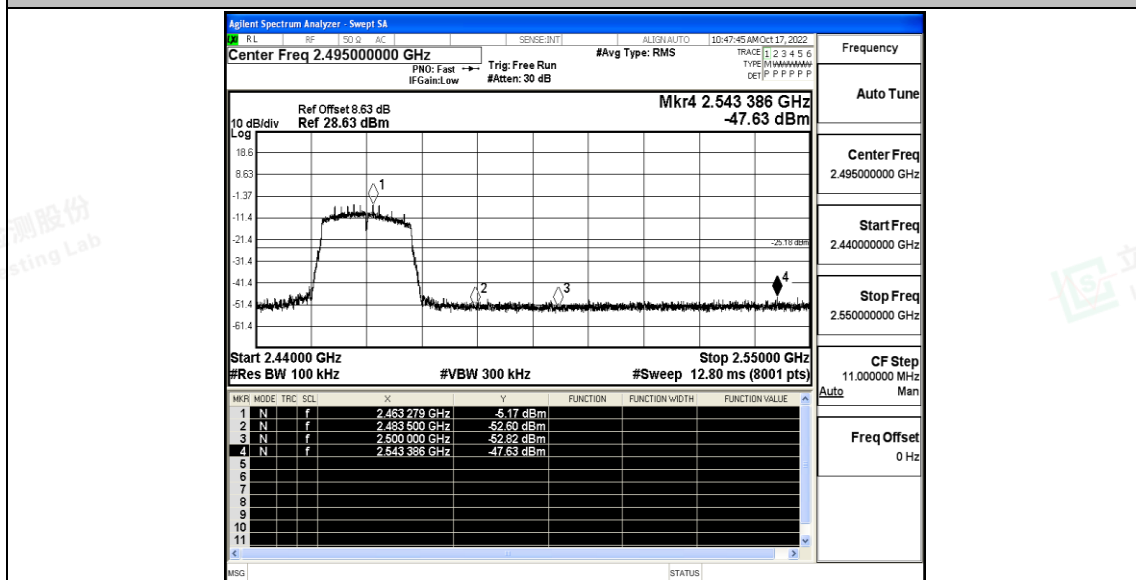


11N20SISO_Ant_Low_2412





11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

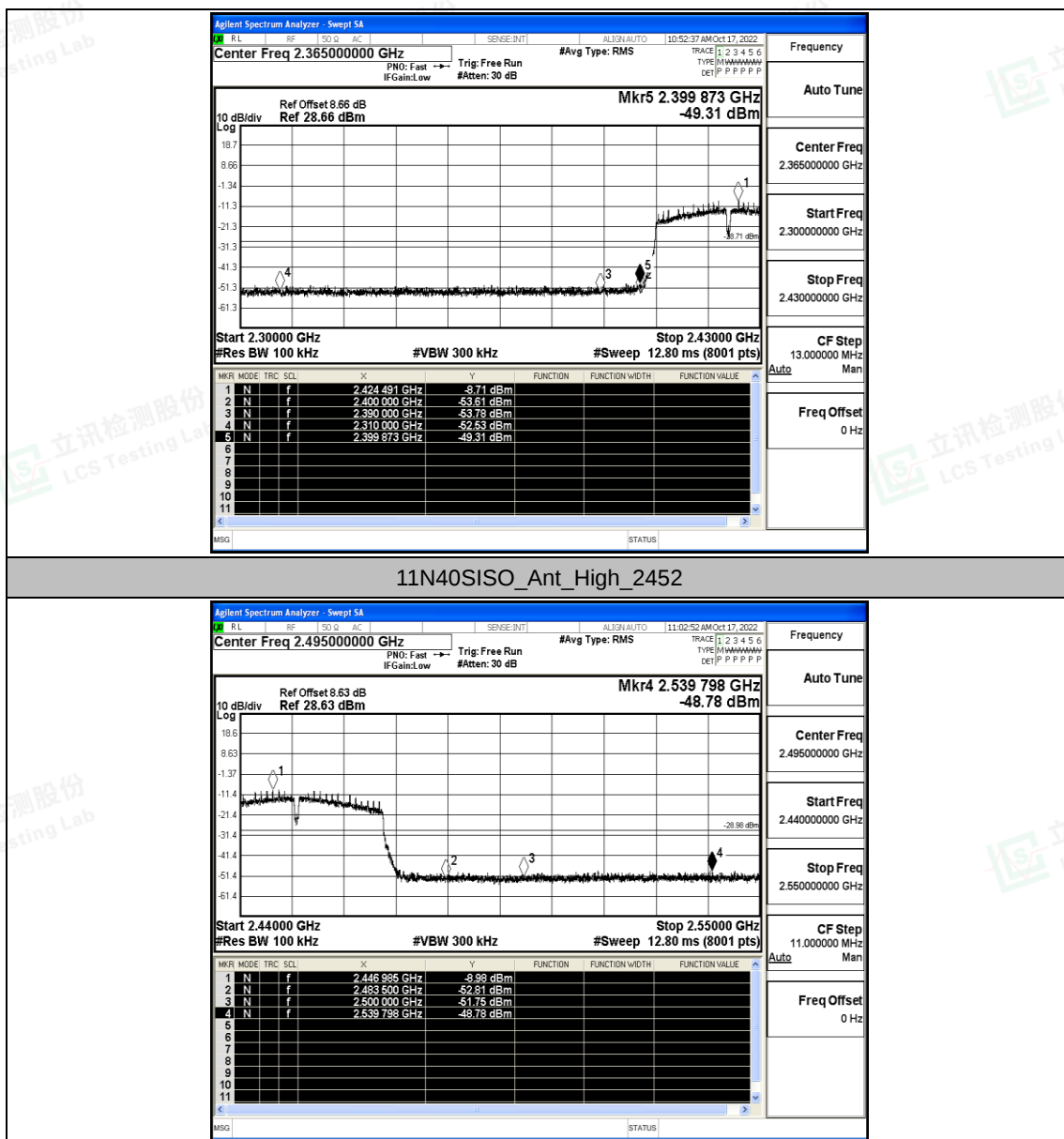


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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-60.74	≤ -17.49	PASS
			1000~26500	2.51	-45.72	≤ -17.49	PASS
		2437	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-61.03	≤ -16.63	PASS
			1000~26500	3.37	-45.12	≤ -16.63	PASS
		2462	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-61.14	≤ -17.17	PASS
			1000~26500	2.83	-46.26	≤ -17.17	PASS
11G	Ant	2412	Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-61.12	≤ -26.58	PASS
			1000~26500	-6.58	-45.94	≤ -26.58	PASS
		2437	Reference	-4.80	-4.80	---	PASS
			30~1000	-4.80	-61	≤ -24.8	PASS
			1000~26500	-4.80	-46.46	≤ -24.8	PASS
		2462	Reference	-5.81	-5.81	---	PASS
			30~1000	-5.81	-60.75	≤ -25.81	PASS
			1000~26500	-5.81	-45.98	≤ -25.81	PASS
11N20SISO	Ant	2412	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-60.49	≤ -25.23	PASS
			1000~26500	-5.23	-46.34	≤ -25.23	PASS
		2437	Reference	-8.57	-8.57	---	PASS
			30~1000	-8.57	-60.91	≤ -28.57	PASS
			1000~26500	-8.57	-46.27	≤ -28.57	PASS
		2462	Reference	-8.10	-8.10	---	PASS
			30~1000	-8.10	-61.25	≤ -28.1	PASS
			1000~26500	-8.10	-46.23	≤ -28.1	PASS
11N40SISO	Ant	2422	Reference	-11.55	-11.55	---	PASS
			30~1000	-11.55	-60.83	≤ -31.55	PASS
			1000~26500	-11.55	-46.05	≤ -31.55	PASS
		2437	Reference	-9.68	-9.68	---	PASS
			30~1000	-9.68	-60.5	≤ -29.68	PASS



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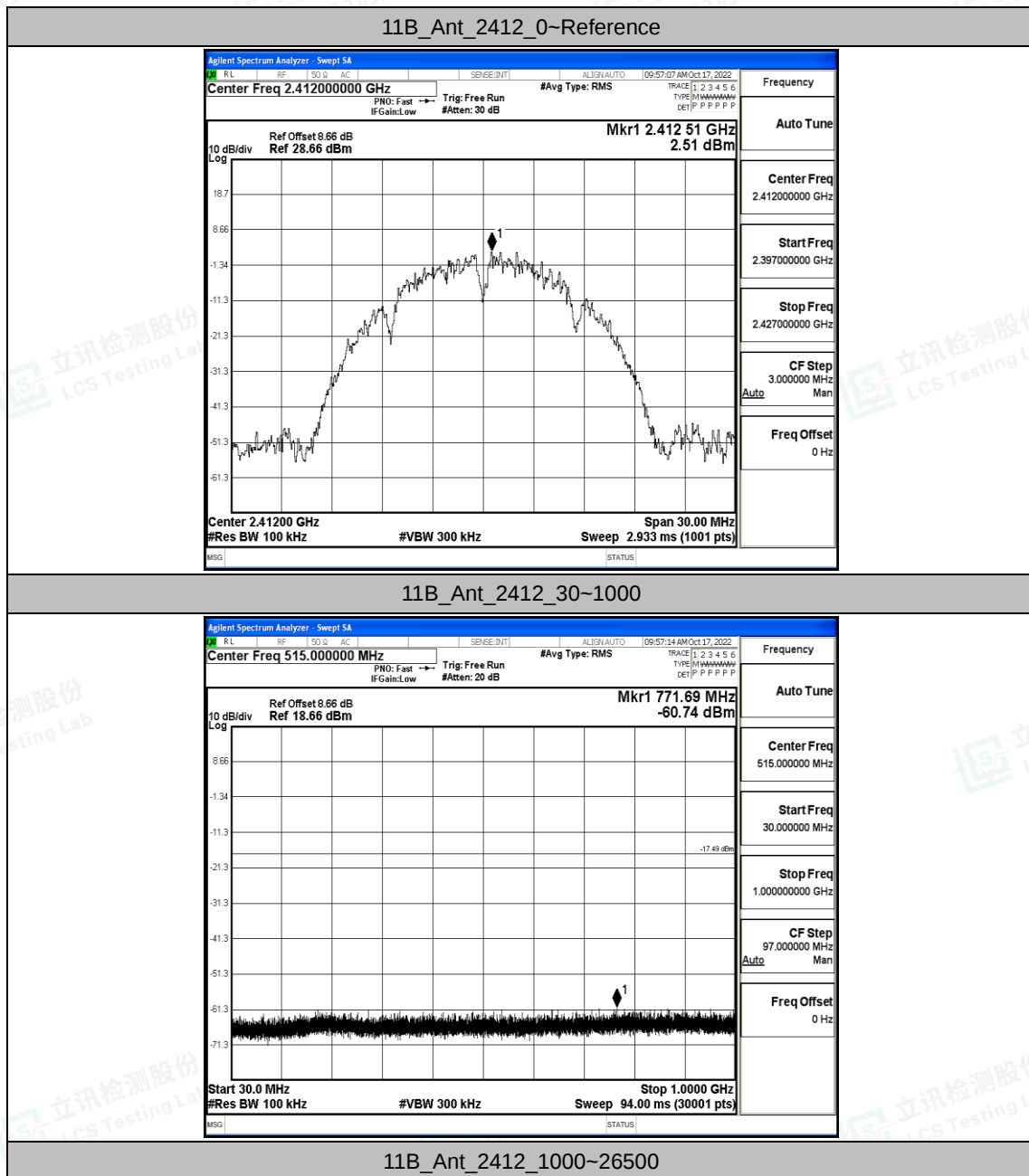


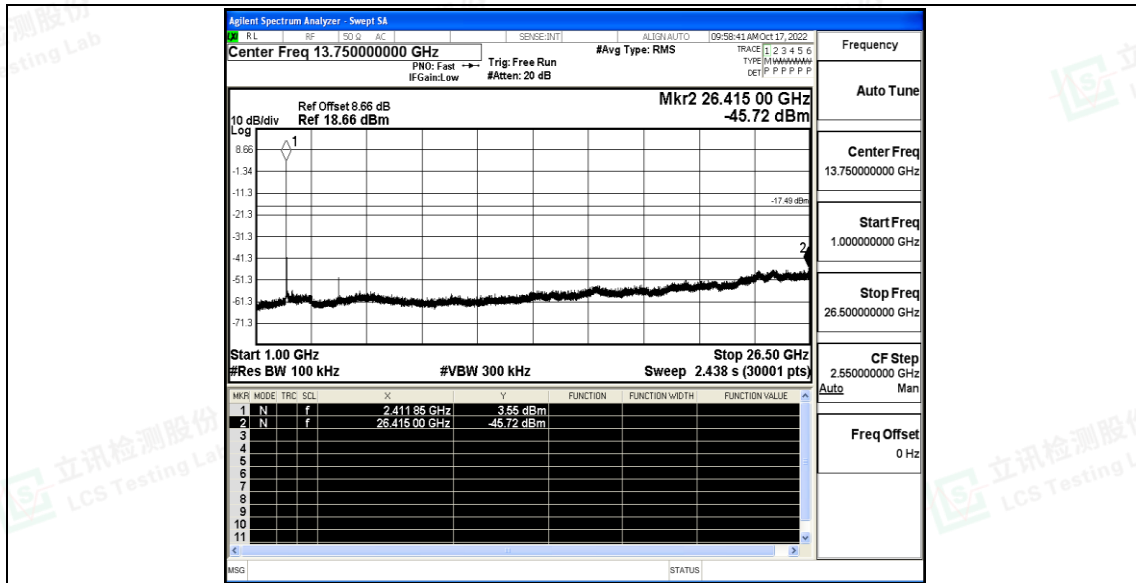
		2452	1000~26500	-9.68	-46.37	≤ -29.68	PASS
			Reference	-8.82	-8.82	---	PASS
			30~1000	-8.82	-60.68	≤ -28.82	PASS
			1000~26500	-8.82	-46.09	≤ -28.82	PASS



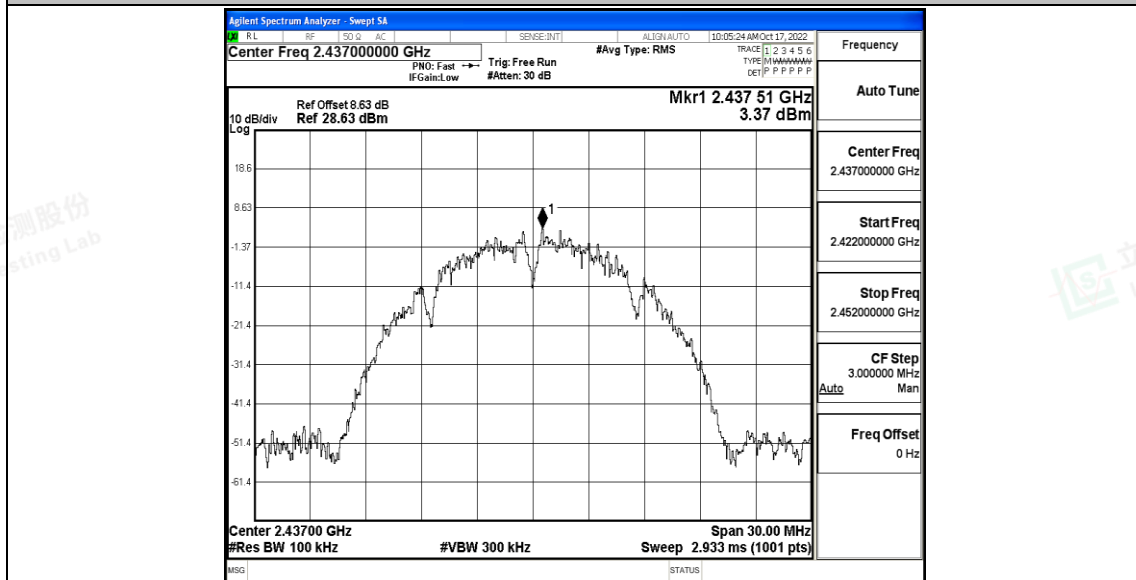


Test Graphs



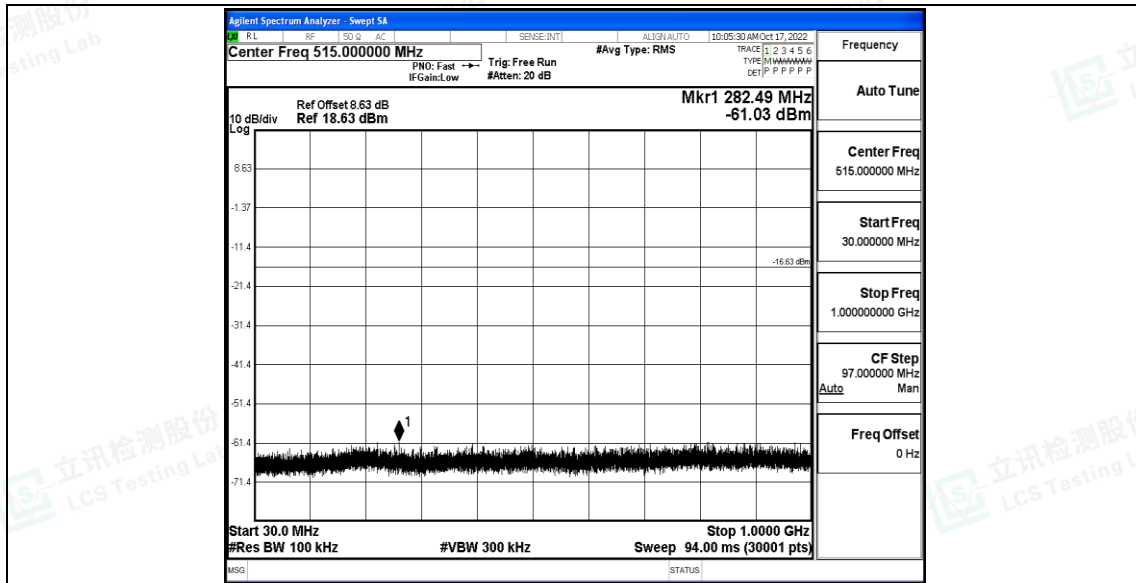


11B_Ant_2437_0~Reference

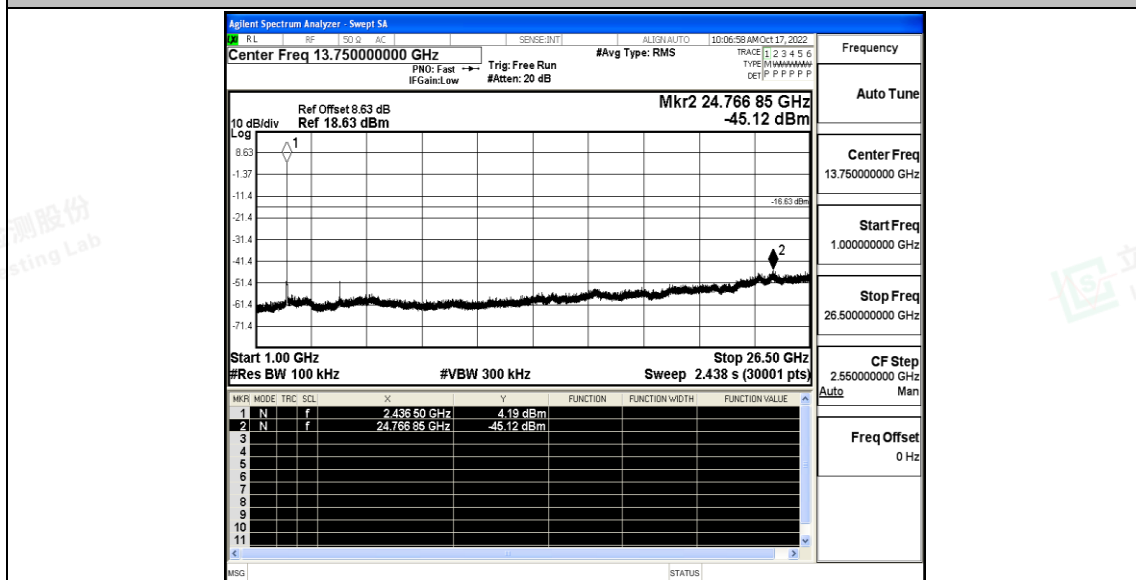


11B_Ant_2437_30~1000



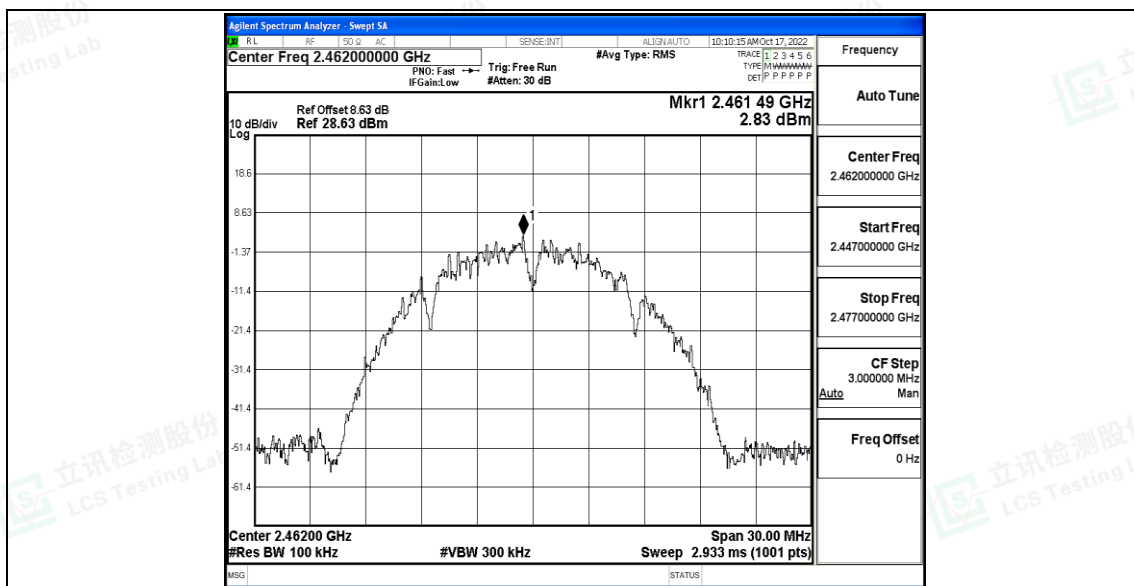


11B_Ant_2437_1000~26500

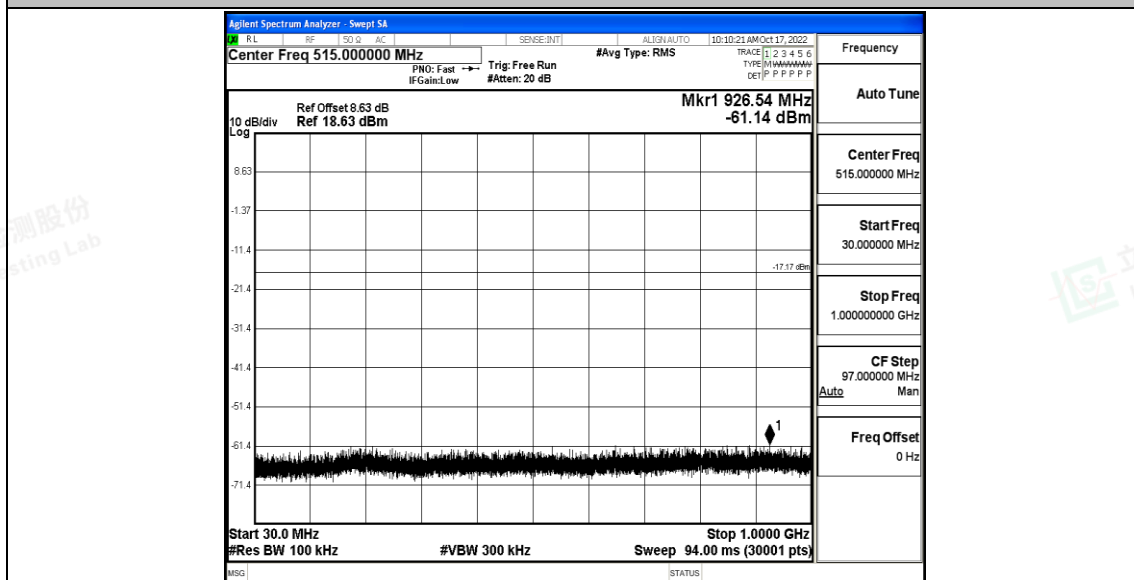


11B_Ant_2462_0~Reference





11B_Ant_2462_30~1000



11B_Ant_2462_1000~26500

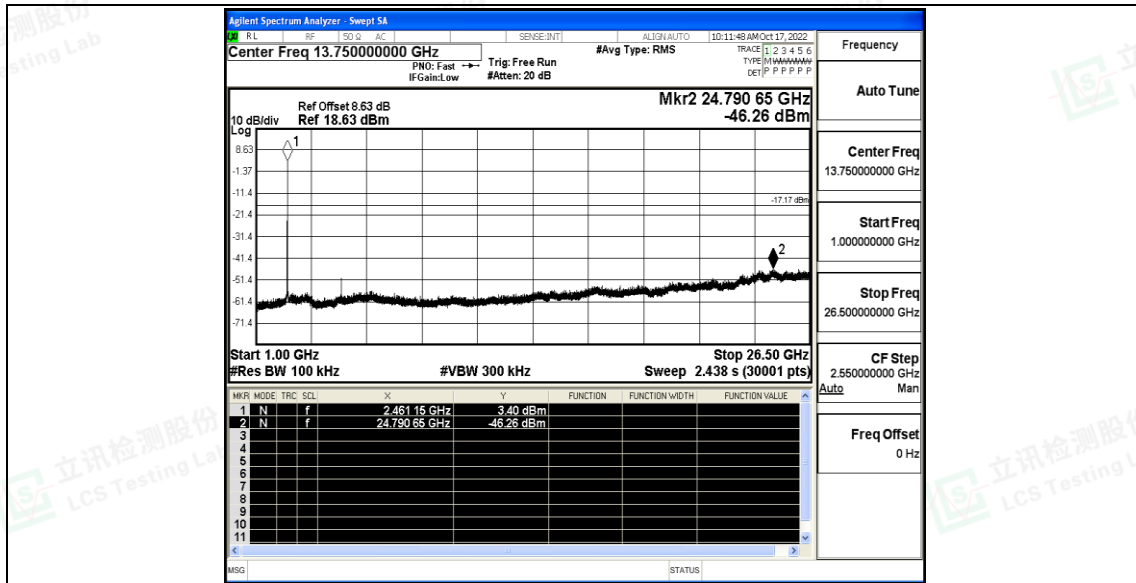


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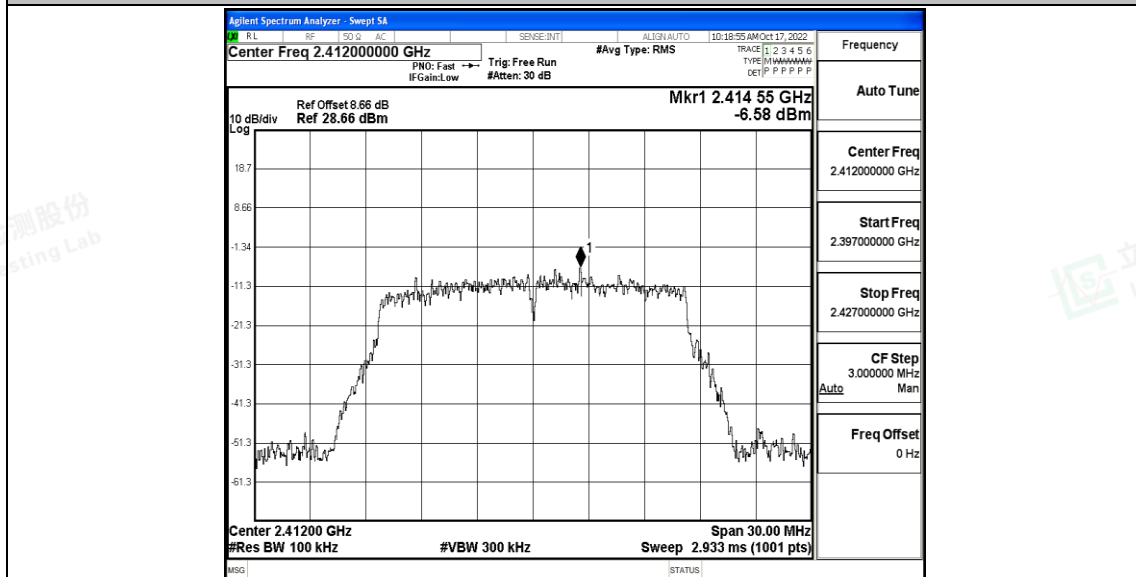
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11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000

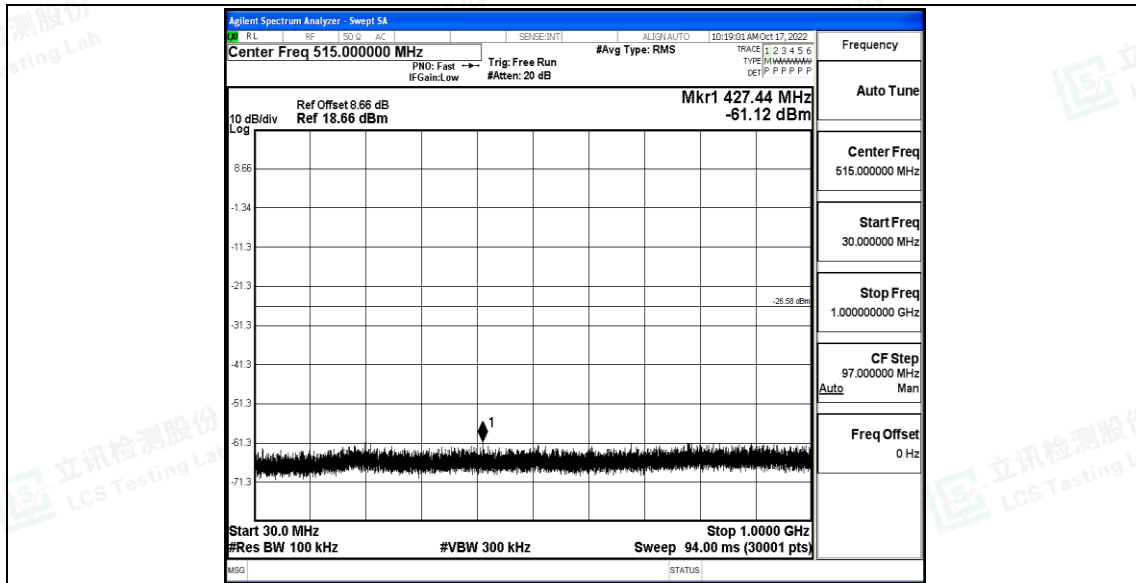


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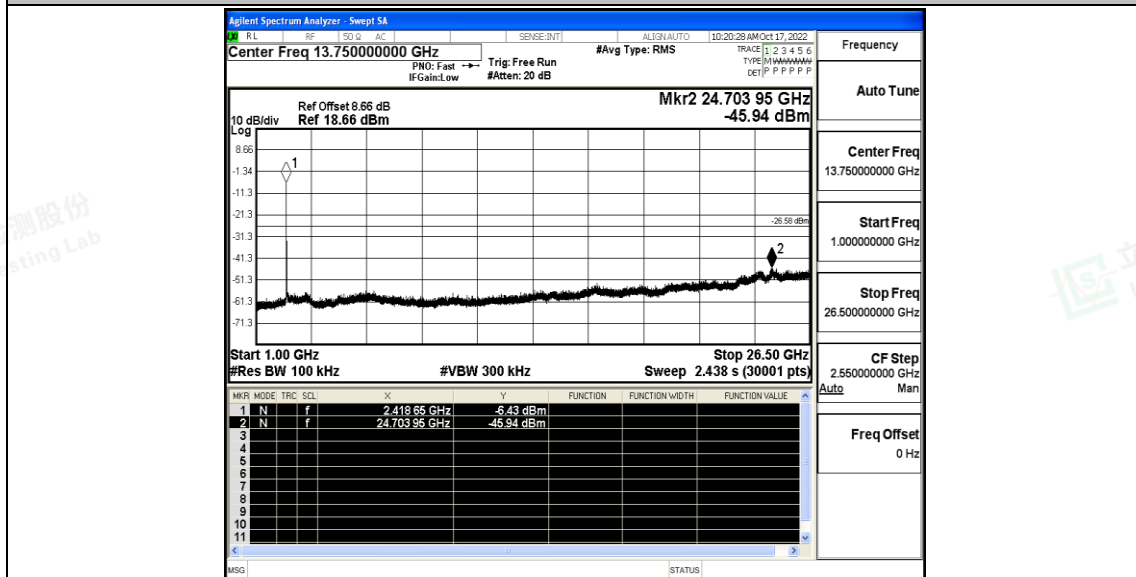
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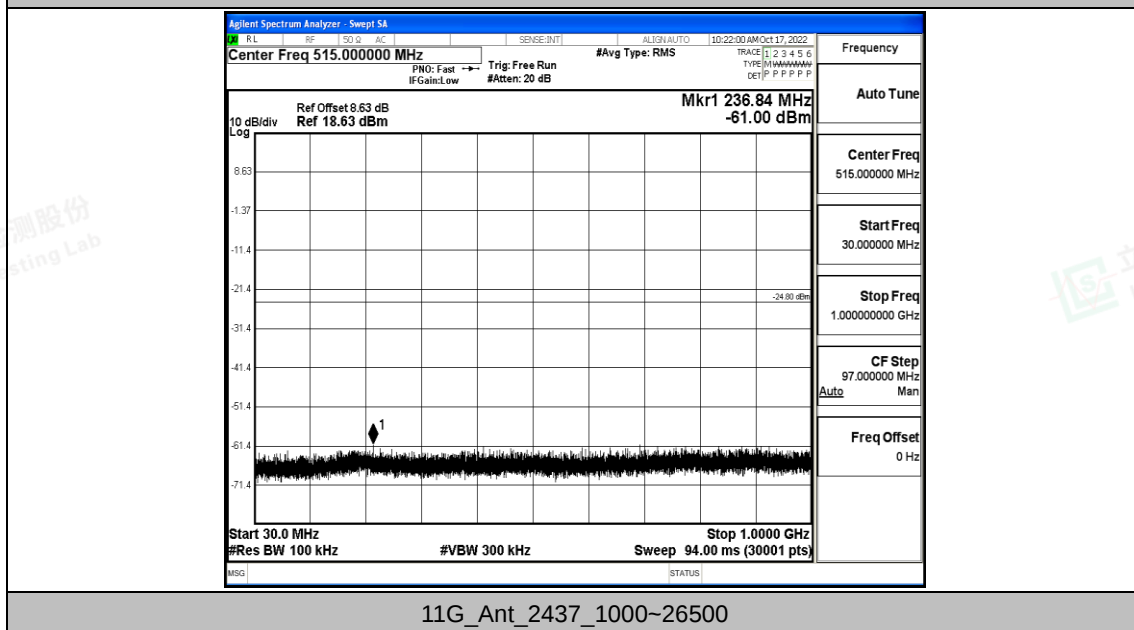
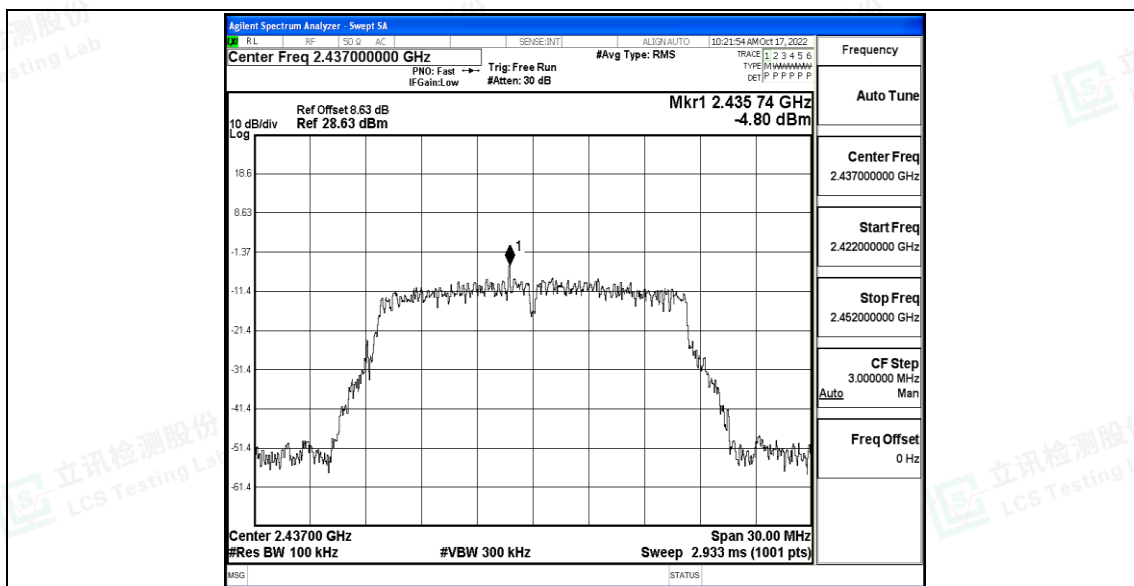


11G_Ant_2412_1000~26500



11G_Ant_2437_0~Reference





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