



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart TV BOX
Test Model: T95S1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan





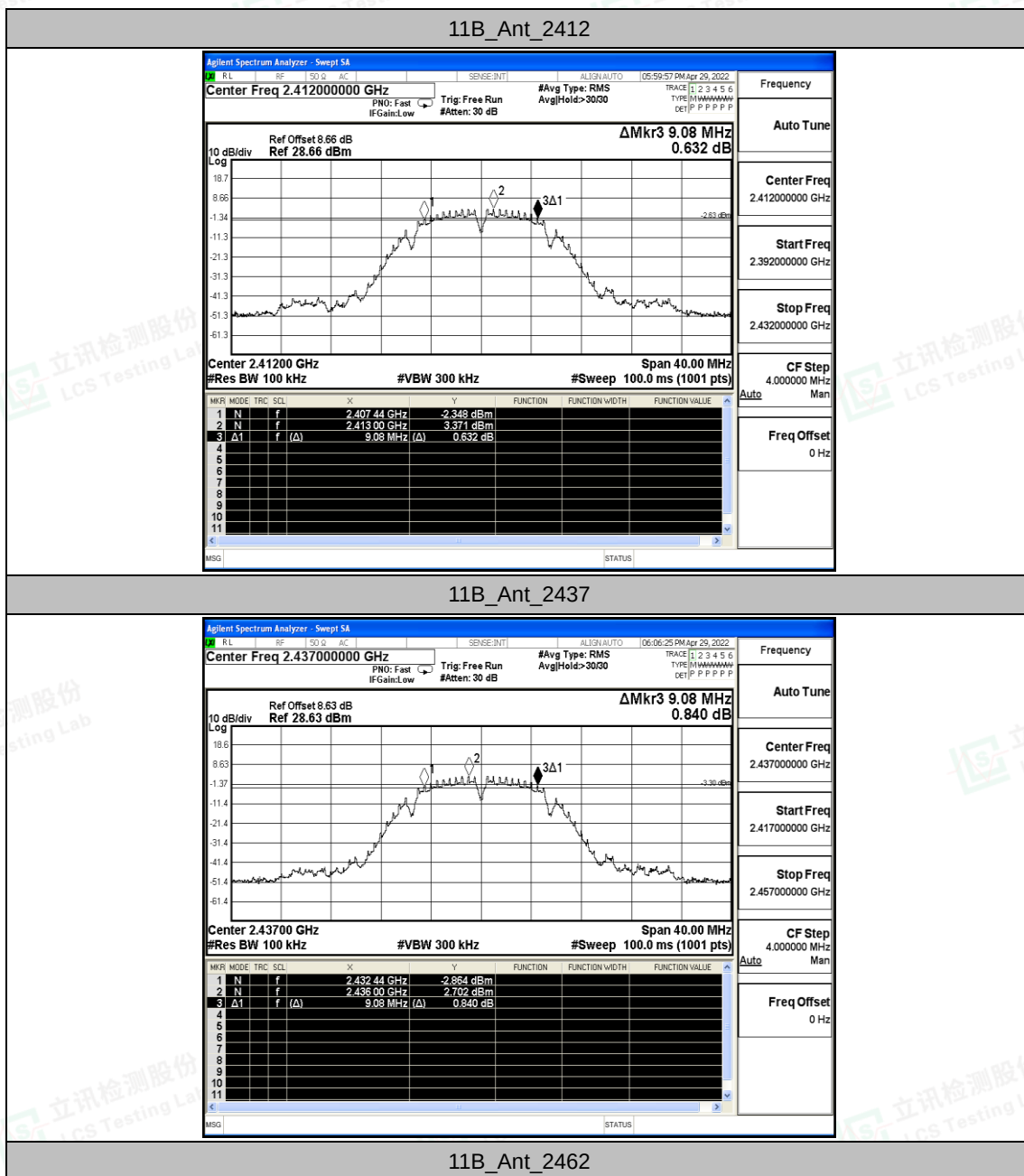
A.1 6dB Bandwidth

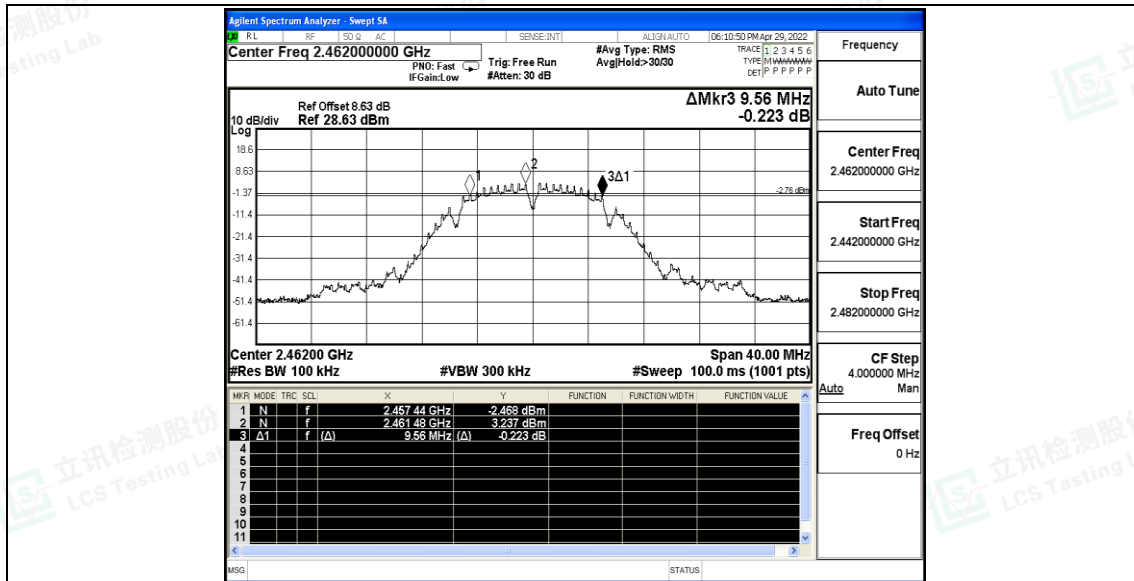
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	9.560	2457.440	2467.000	0.5	PASS
11G	Ant	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant	2422	36.000	2404.080	2440.080	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	36.080	2434.080	2470.160	0.5	PASS

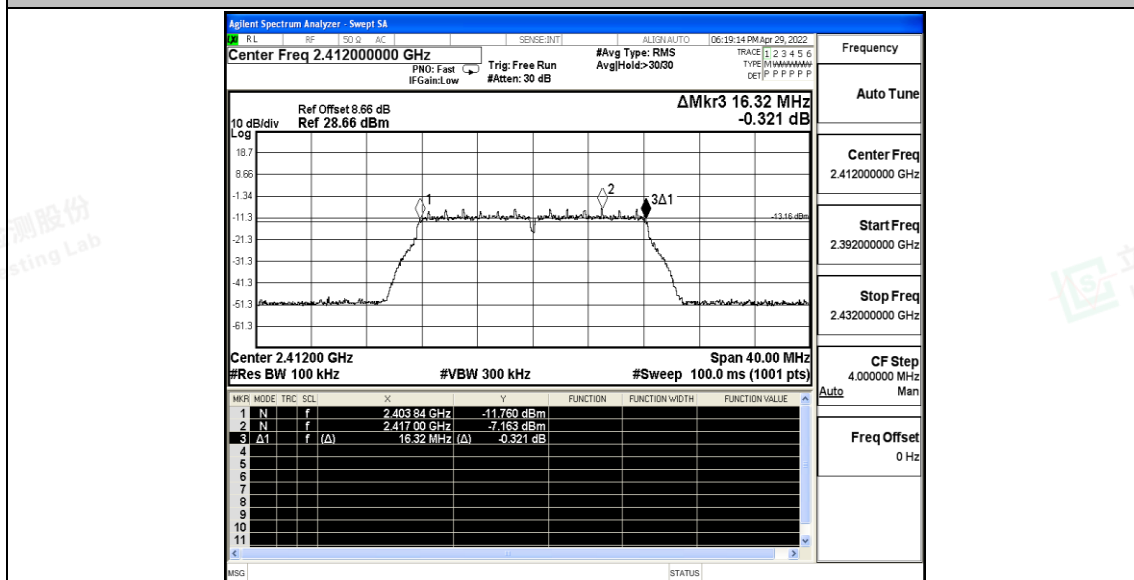


Test Graphs





11G_Ant_2412



11G_Ant_2437

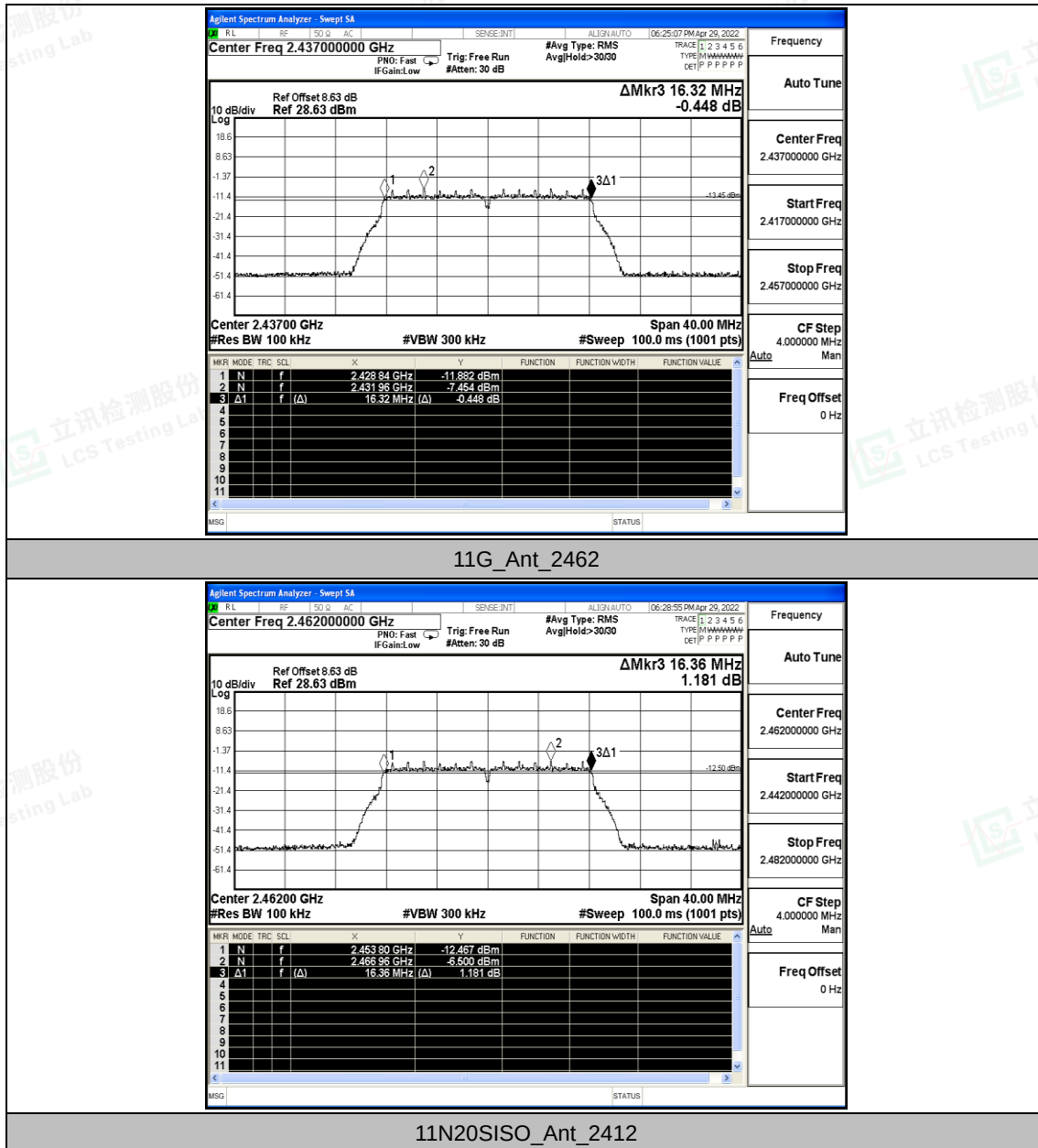


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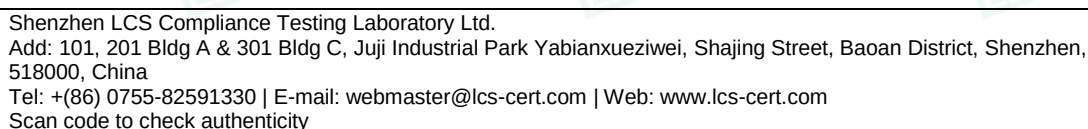
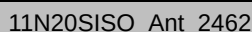
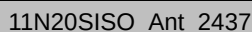
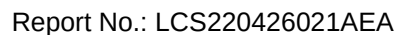


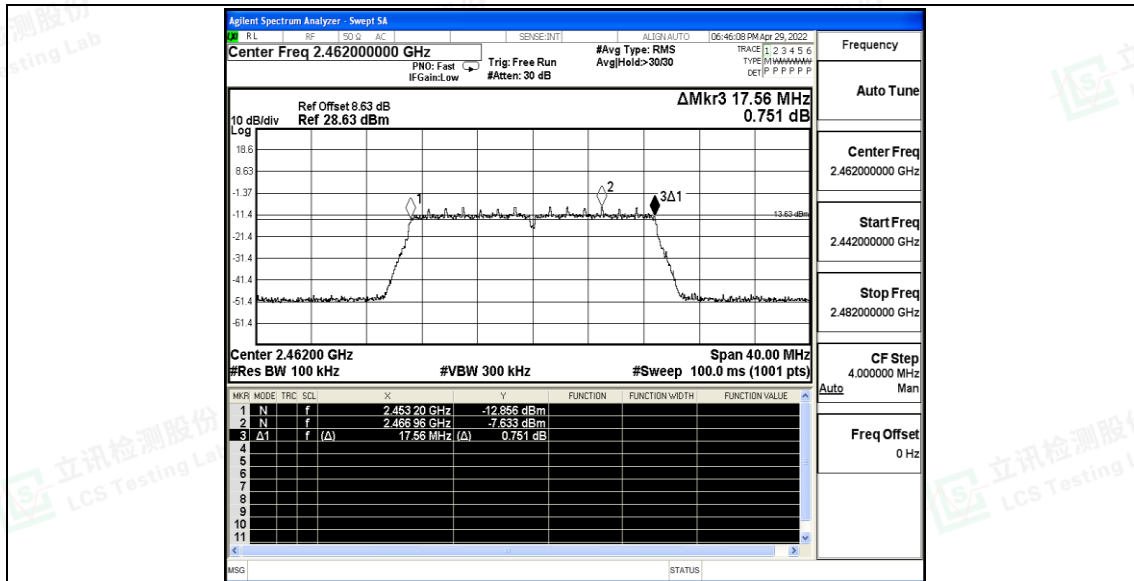
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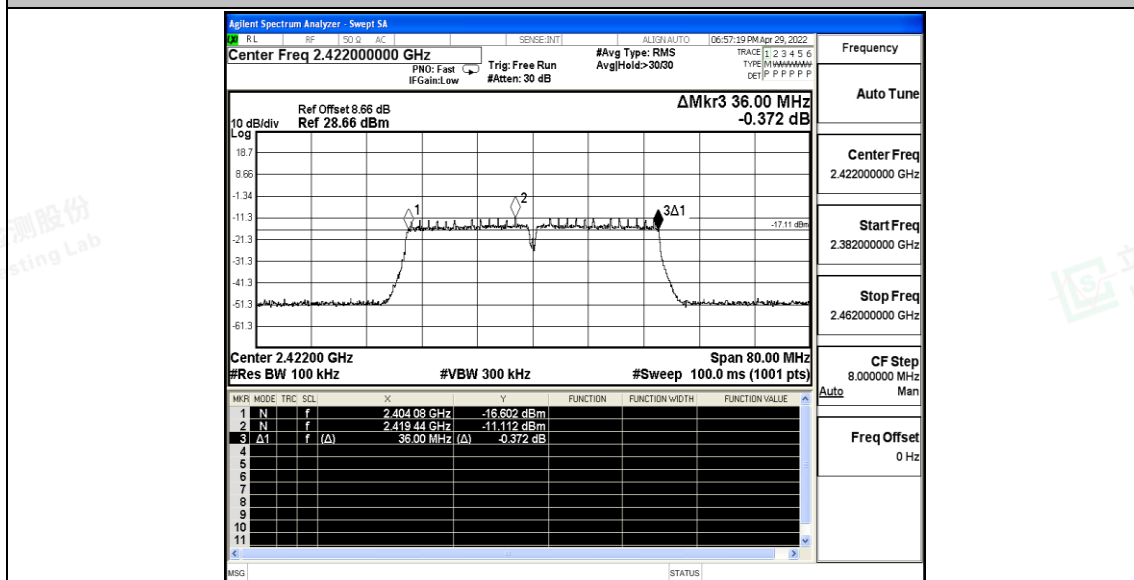
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

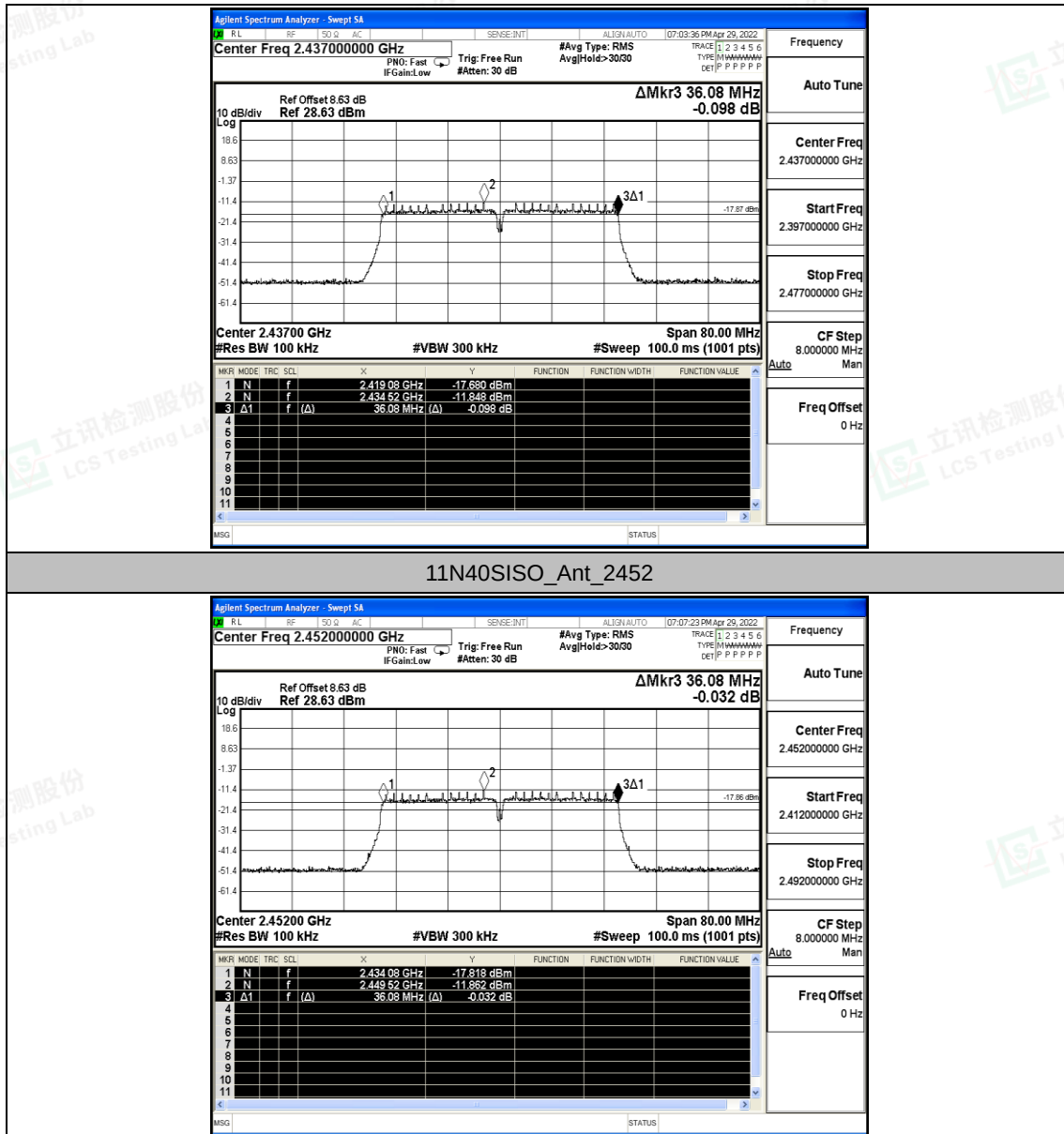


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	15.02	≤30.00	PASS
		2437	14.41	≤30.00	PASS
		2462	14.94	≤30.00	PASS
11G	Ant	2412	12.27	≤30.00	PASS
		2437	12.12	≤30.00	PASS
		2462	12.97	≤30.00	PASS
11N20SISO	Ant	2412	11.82	≤30.00	PASS
		2437	11.69	≤30.00	PASS
		2462	11.74	≤30.00	PASS
11N40SISO	Ant	2422	11.08	≤30.00	PASS
		2437	10.49	≤30.00	PASS
		2452	10.40	≤30.00	PASS



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A.3 Maximum power spectral density

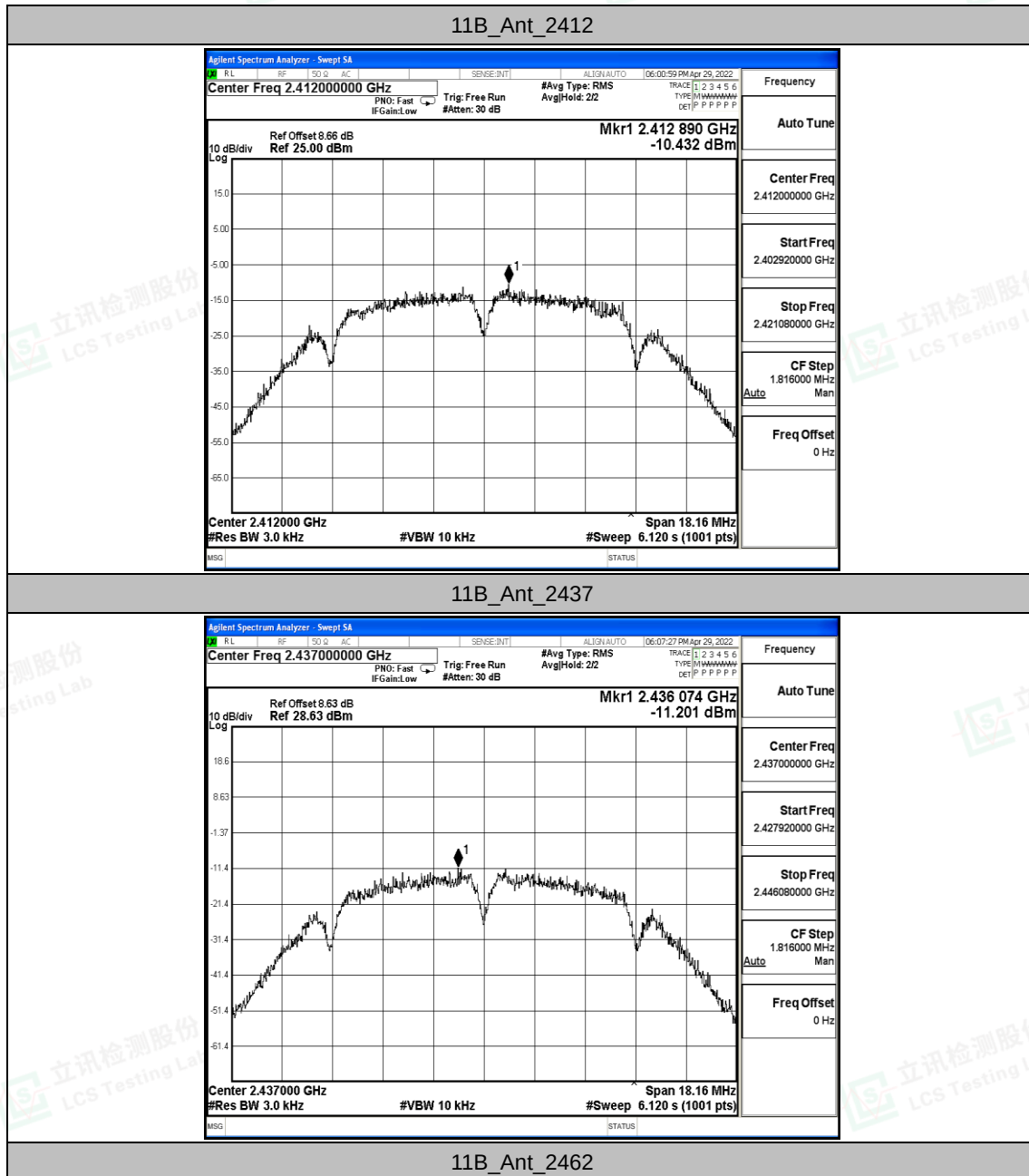
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-10.43	≤8.00	PASS
		2437	-11.2	≤8.00	PASS
		2462	-10.82	≤8.00	PASS
11G	Ant	2412	-21.88	≤8.00	PASS
		2437	-22.06	≤8.00	PASS
		2462	-21.5	≤8.00	PASS
11N20SISO	Ant	2412	-21.74	≤8.00	PASS
		2437	-21.13	≤8.00	PASS
		2462	-22.41	≤8.00	PASS
11N40SISO	Ant	2422	-24.63	≤8.00	PASS
		2437	-24.75	≤8.00	PASS
		2452	-25.25	≤8.00	PASS





Test Graphs

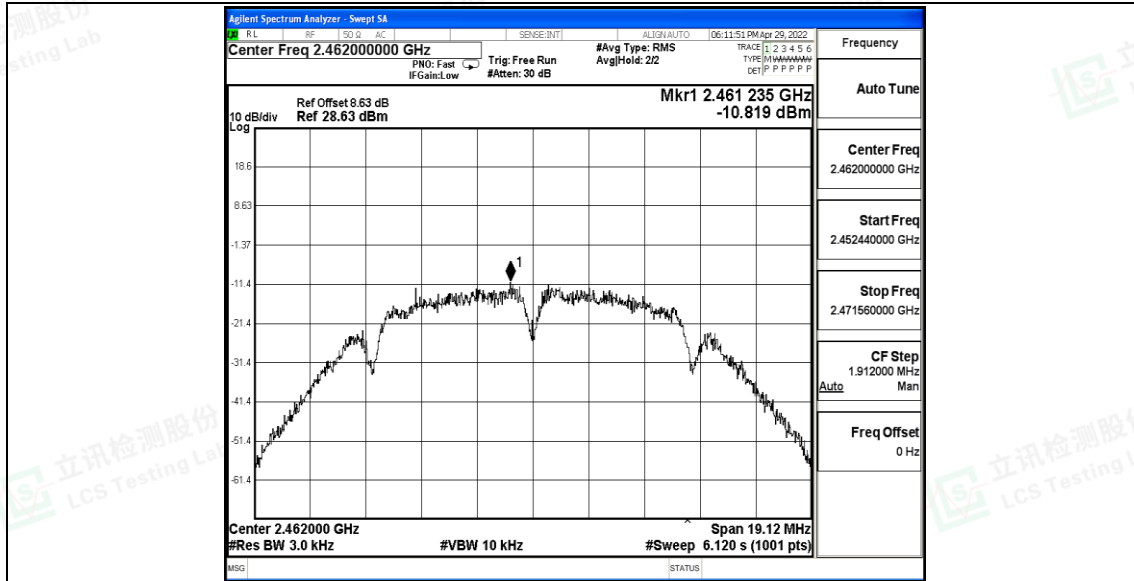


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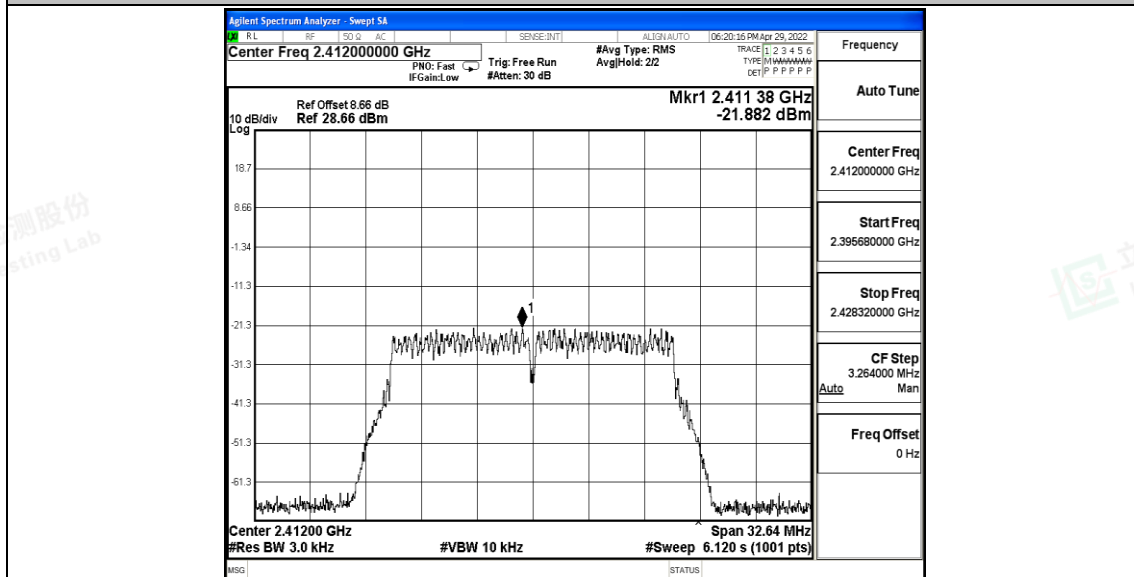
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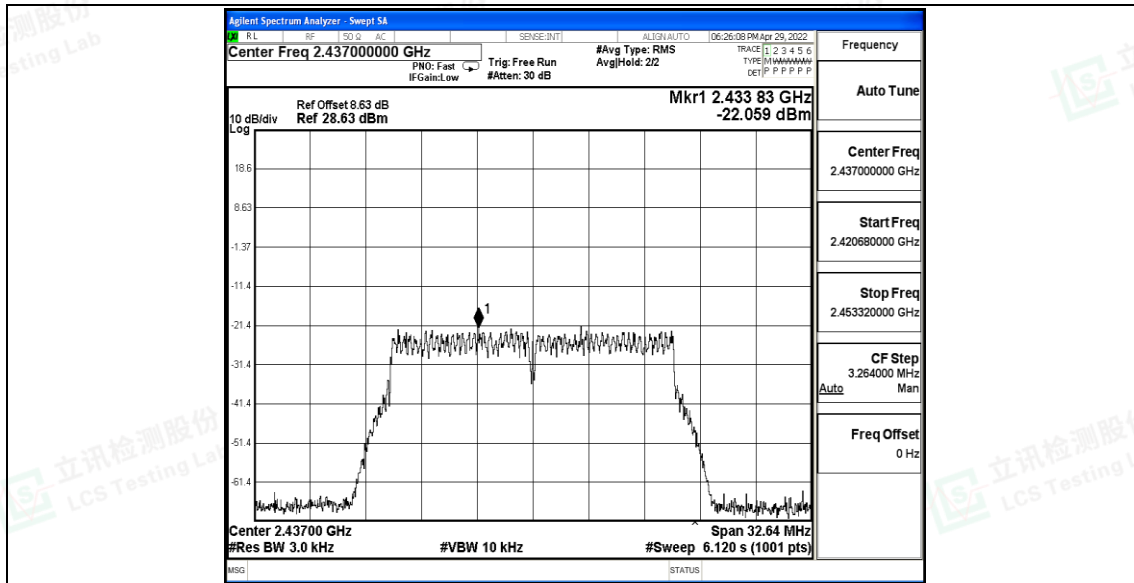


11G_Ant_2412

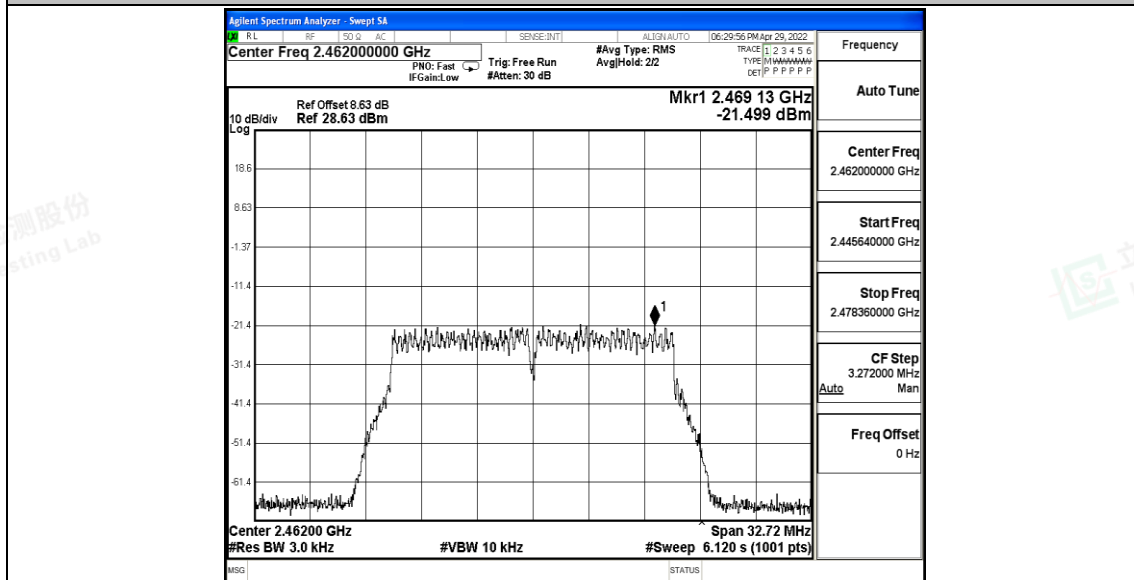


11G_Ant_2437



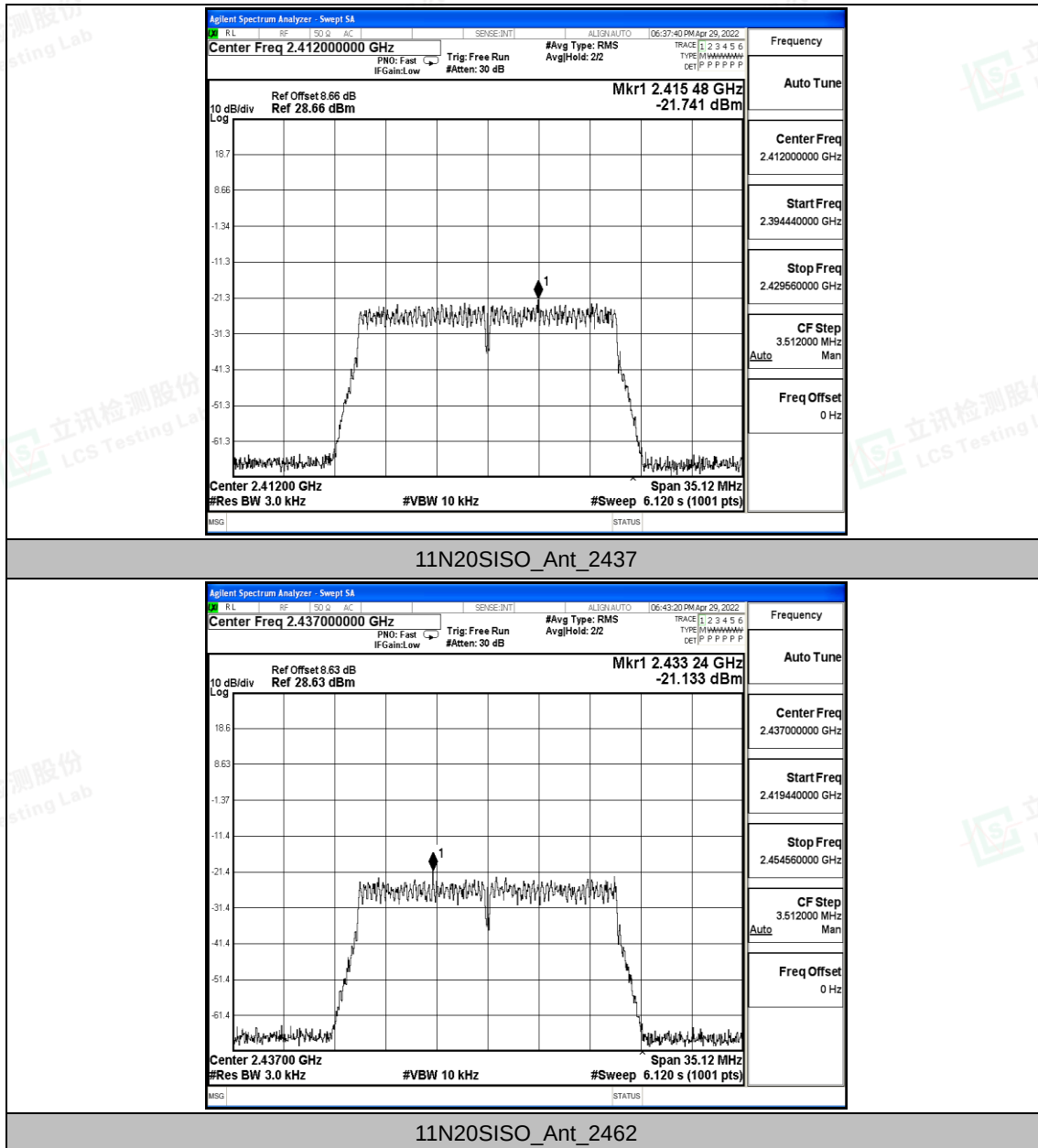


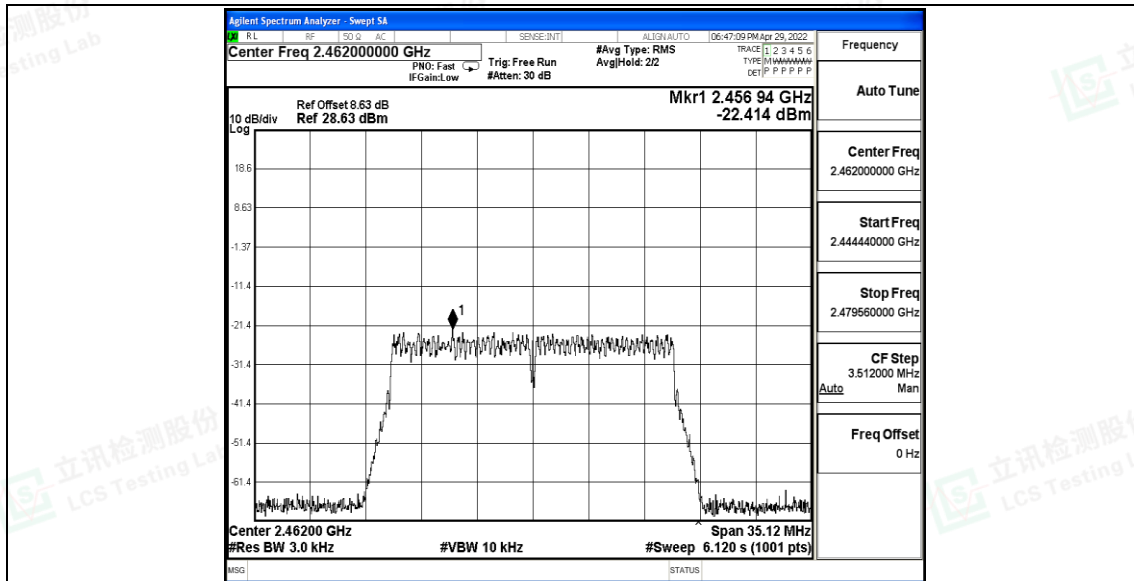
11G_Ant_2462



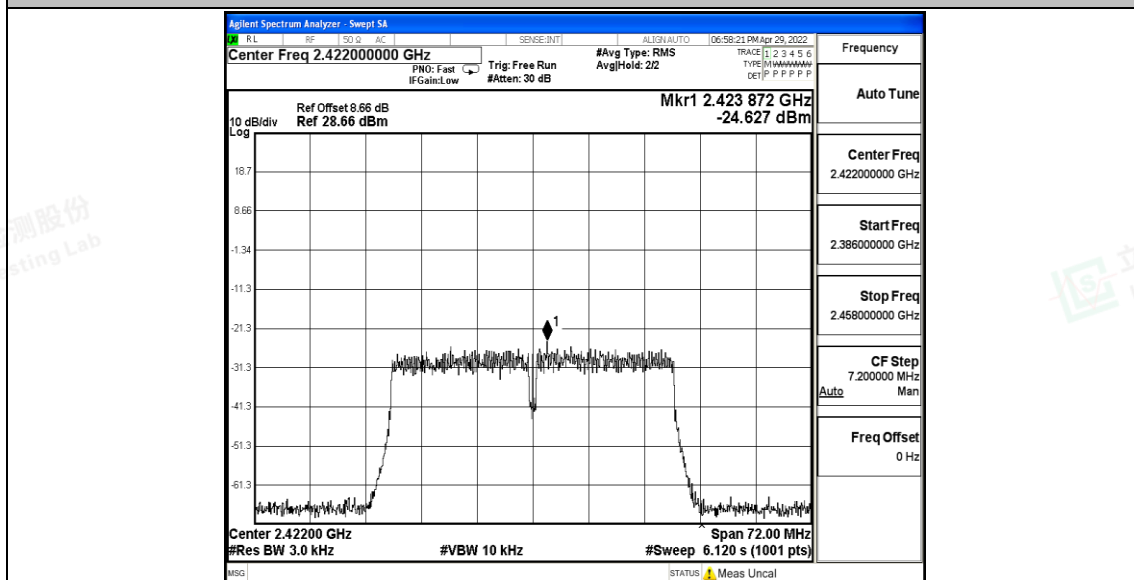
11N20SISO_Ant_2412





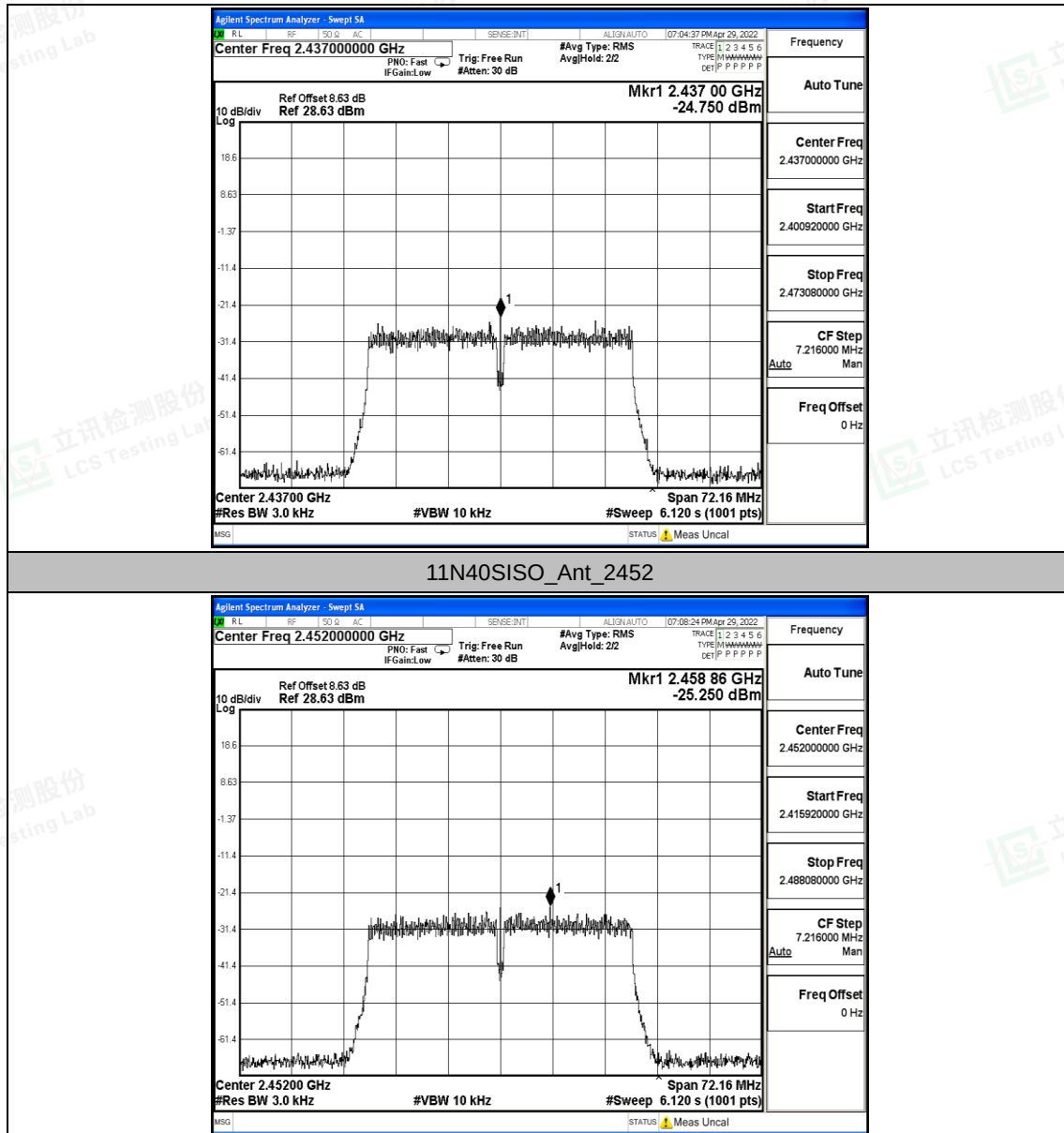


11N40SISO_Ant_2422



11N40SISO_Ant_2437







A.4 Band edge measurements

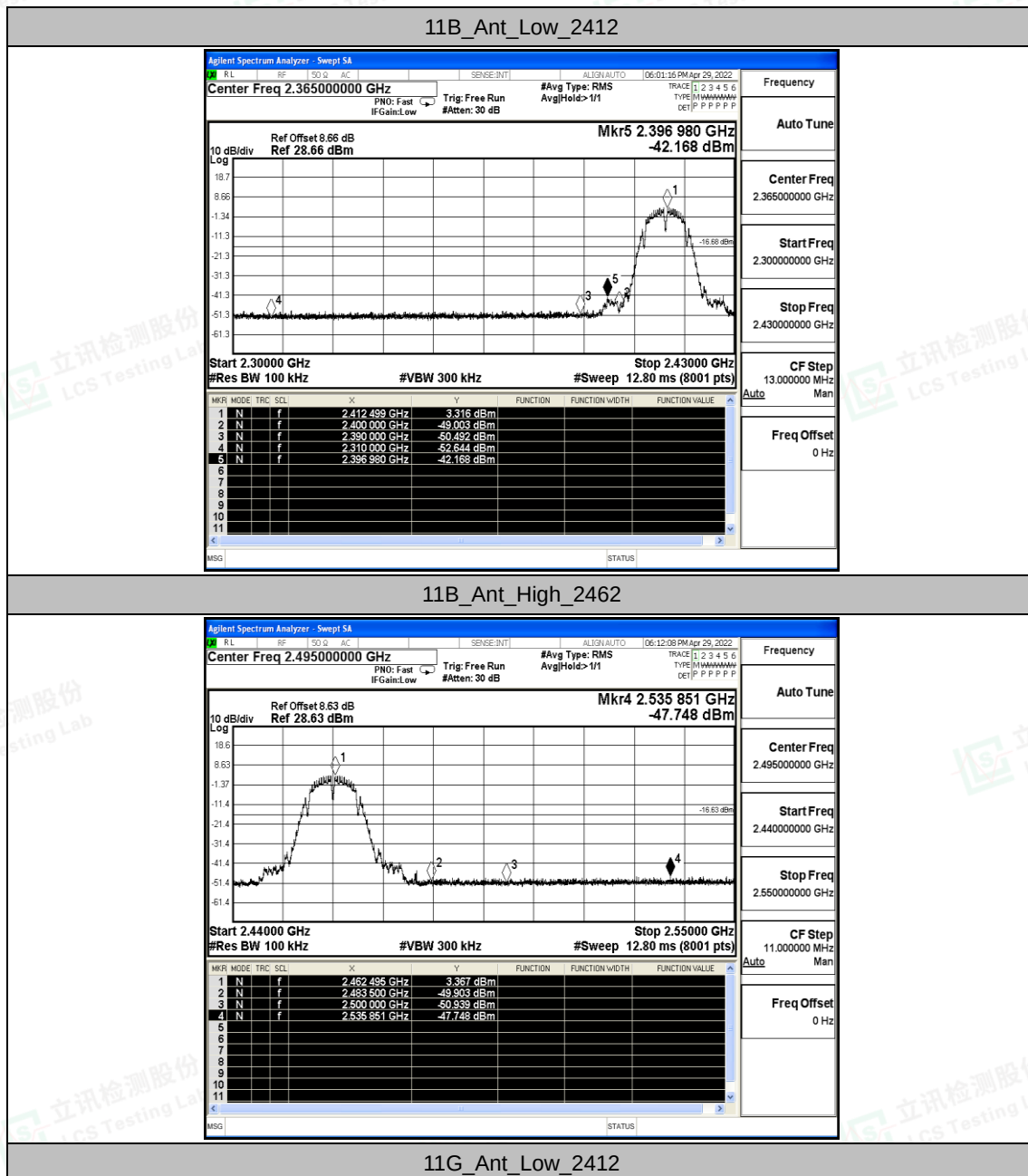
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	3.32	-42.17	≤ -16.68	PASS
		High	2462	3.37	-47.75	≤ -16.63	PASS
11G	Ant	Low	2412	-6.88	-47.97	≤ -26.88	PASS
		High	2462	-6.42	-47.66	≤ -26.42	PASS
11N20SISO	Ant	Low	2412	-7.24	-48.75	≤ -27.24	PASS
		High	2462	-7.55	-47.73	≤ -27.55	PASS
11N40SISO	Ant	Low	2422	-10.95	-47.91	≤ -30.95	PASS
		High	2452	-11.79	-48.03	≤ -31.79	PASS





Test Graphs

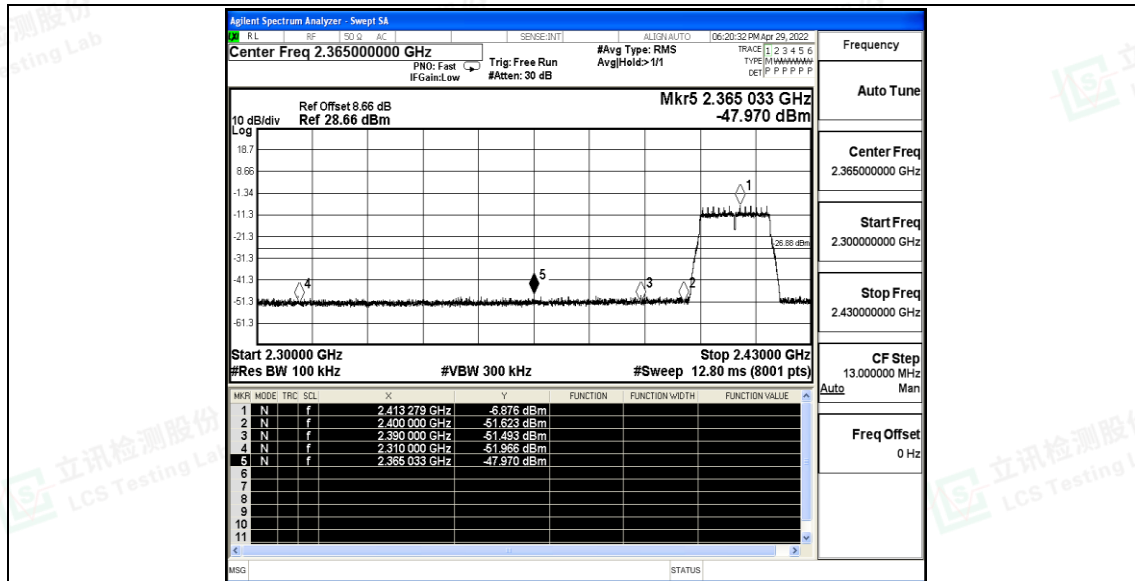


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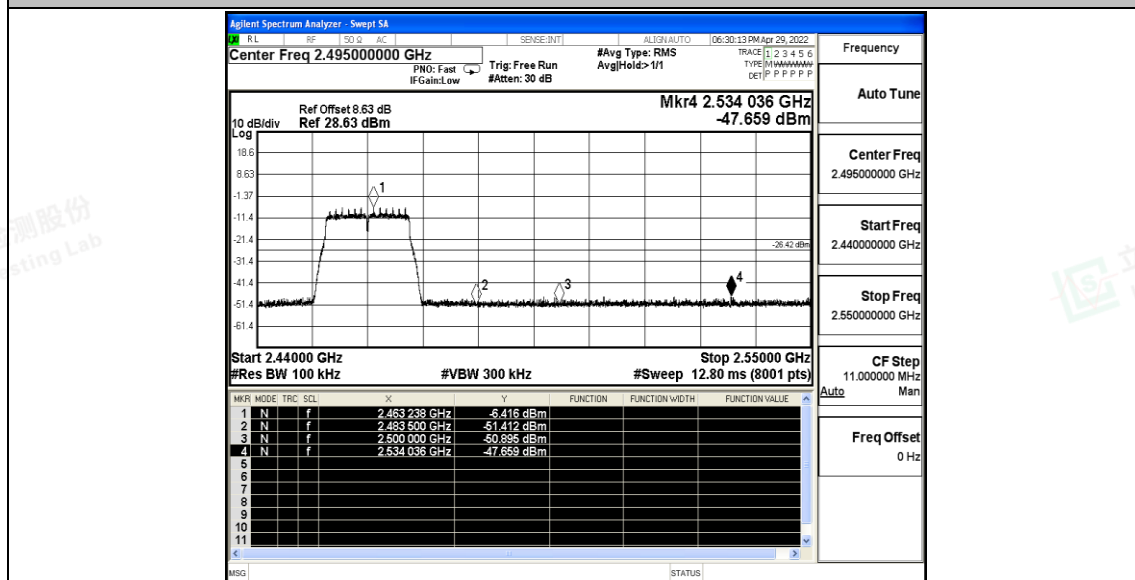
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

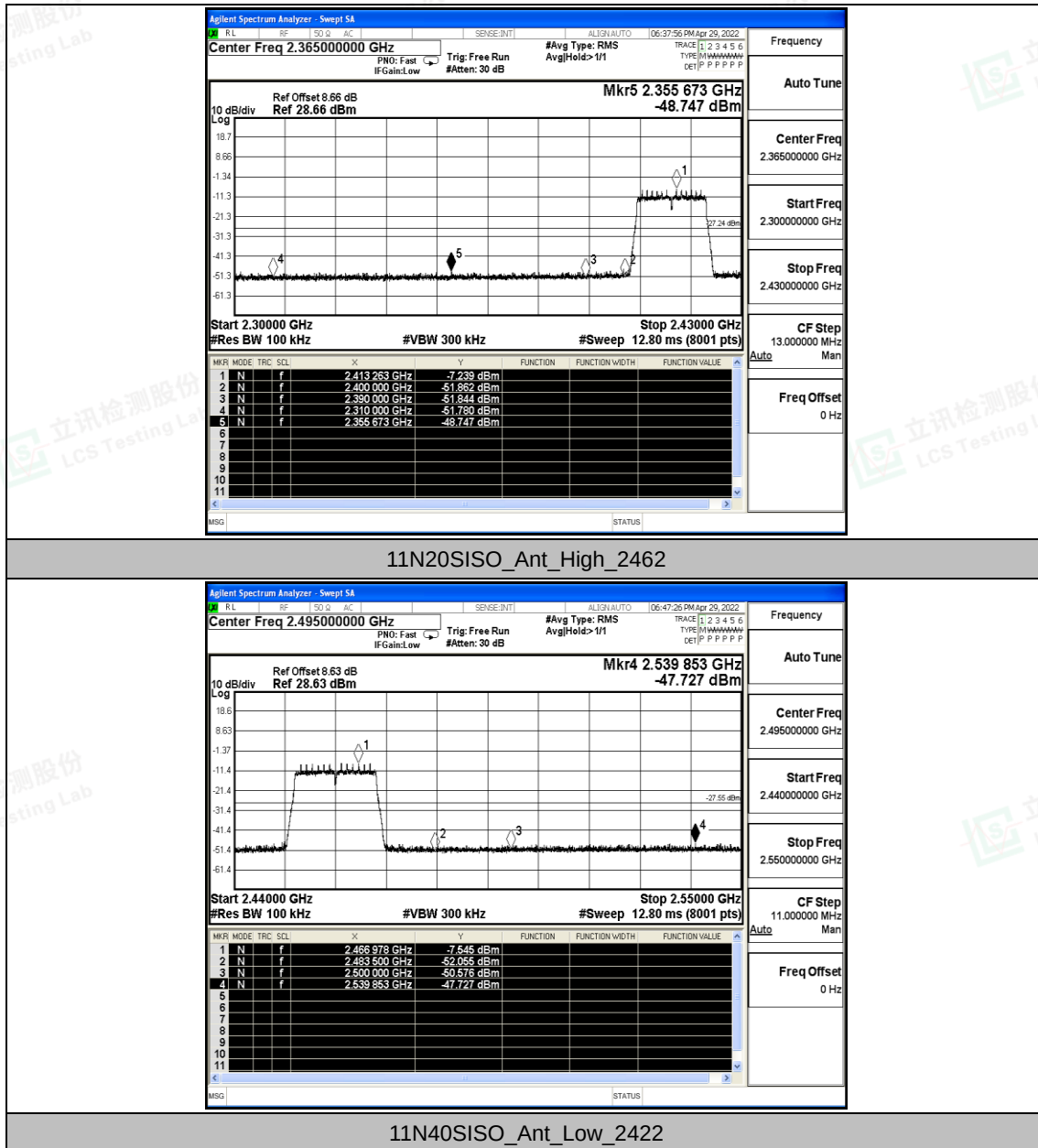


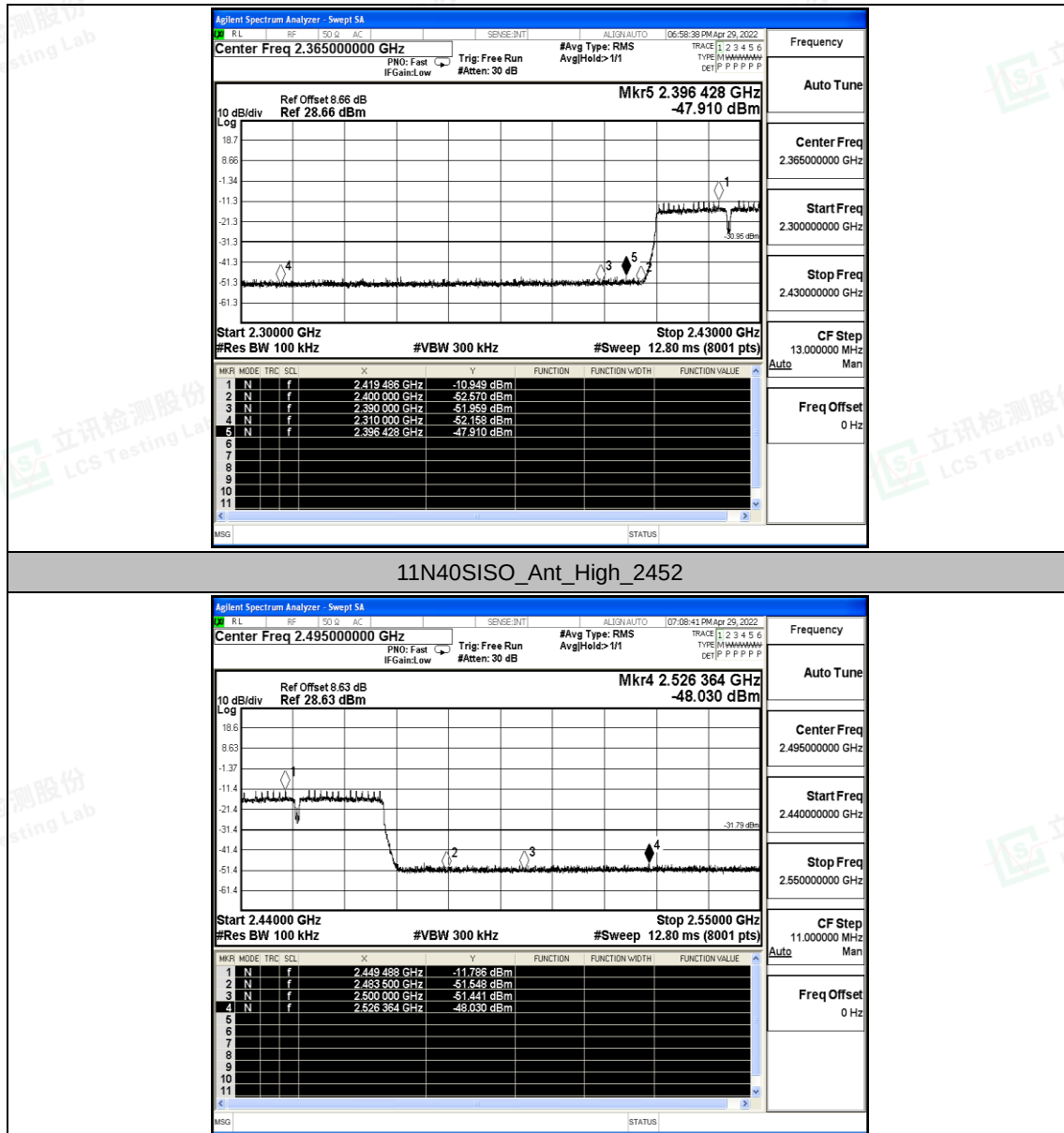
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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	3.36	3.36	---	PASS
			30~1000	3.36	-59.55	≤-16.64	PASS
			1000~26500	3.36	-45.56	≤-16.64	PASS
		2437	Reference	2.53	2.53	---	PASS
			30~1000	2.53	-59.99	≤-17.47	PASS
			1000~26500	2.53	-46.3	≤-17.47	PASS
		2462	Reference	3.36	3.36	---	PASS
			30~1000	3.36	-59.86	≤-16.64	PASS
			1000~26500	3.36	-46.04	≤-16.64	PASS
11G	Ant	2412	Reference	-6.70	-6.70	---	PASS
			30~1000	-6.70	-60.18	≤-26.7	PASS
			1000~26500	-6.70	-46.1	≤-26.7	PASS
		2437	Reference	-7.34	-7.34	---	PASS
			30~1000	-7.34	-60.27	≤-27.34	PASS
			1000~26500	-7.34	-45.51	≤-27.34	PASS
		2462	Reference	-6.38	-6.38	---	PASS
			30~1000	-6.38	-60.13	≤-26.38	PASS
			1000~26500	-6.38	-45.89	≤-26.38	PASS
11N20SISO	Ant	2412	Reference	-7.23	-7.23	---	PASS
			30~1000	-7.23	-59.73	≤-27.23	PASS
			1000~26500	-7.23	-45.68	≤-27.23	PASS
		2437	Reference	-7.15	-7.15	---	PASS
			30~1000	-7.15	-60.91	≤-27.15	PASS
			1000~26500	-7.15	-46.38	≤-27.15	PASS
		2462	Reference	-7.47	-7.47	---	PASS
			30~1000	-7.47	-60.21	≤-27.47	PASS
			1000~26500	-7.47	-45.91	≤-27.47	PASS
11N40SISO	Ant	2422	Reference	-10.92	-10.92	---	PASS
			30~1000	-10.92	-60.76	≤-30.92	PASS
			1000~26500	-10.92	-46.29	≤-30.92	PASS
		2437	Reference	-11.72	-11.72	---	PASS
			30~1000	-11.72	-60.24	≤-31.72	PASS
			1000~26500	-11.72	-45.66	≤-31.72	PASS
		2452	Reference	-11.85	-11.85	---	PASS
			30~1000	-11.85	-59.31	≤-31.85	PASS



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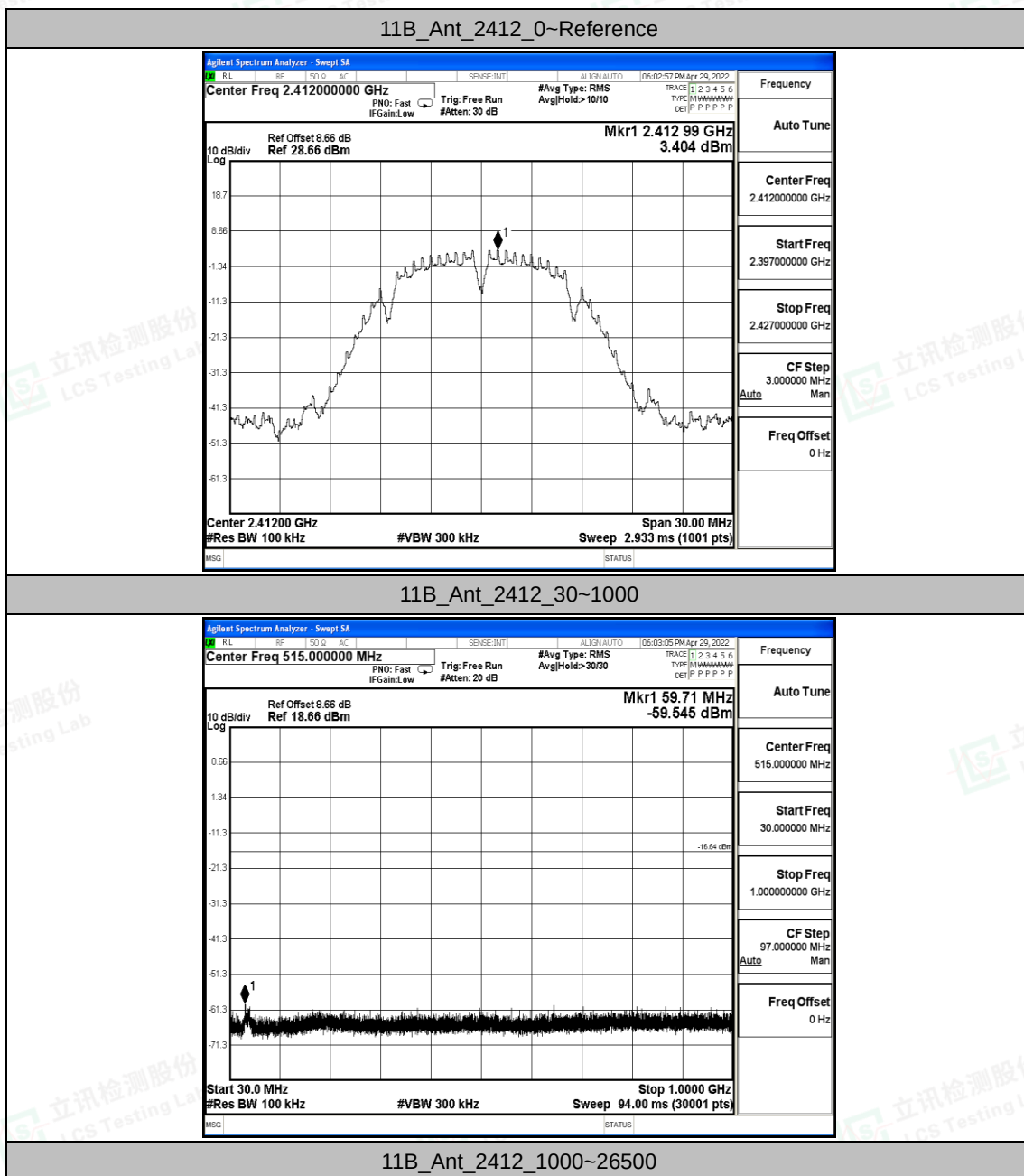


			1000~26500	-11.85	-45.67	≤-31.85	PASS
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Test Graphs

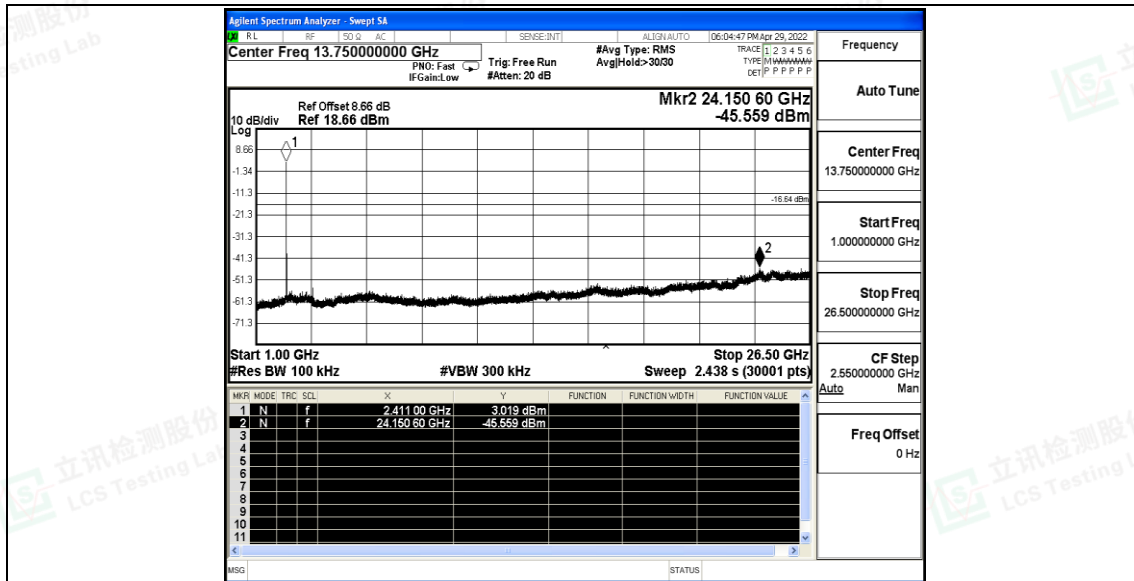


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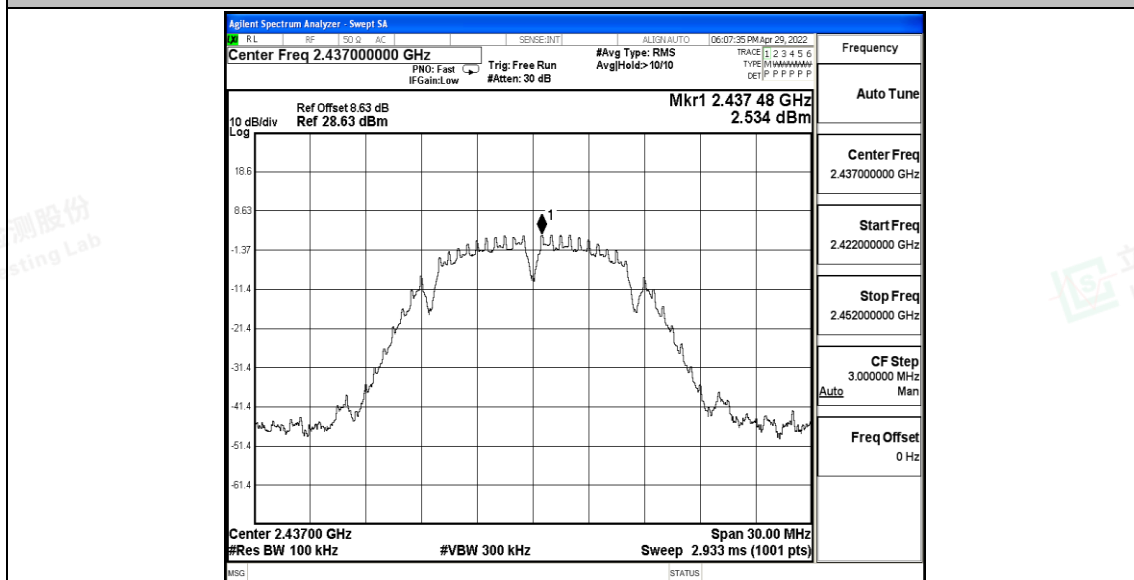
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11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

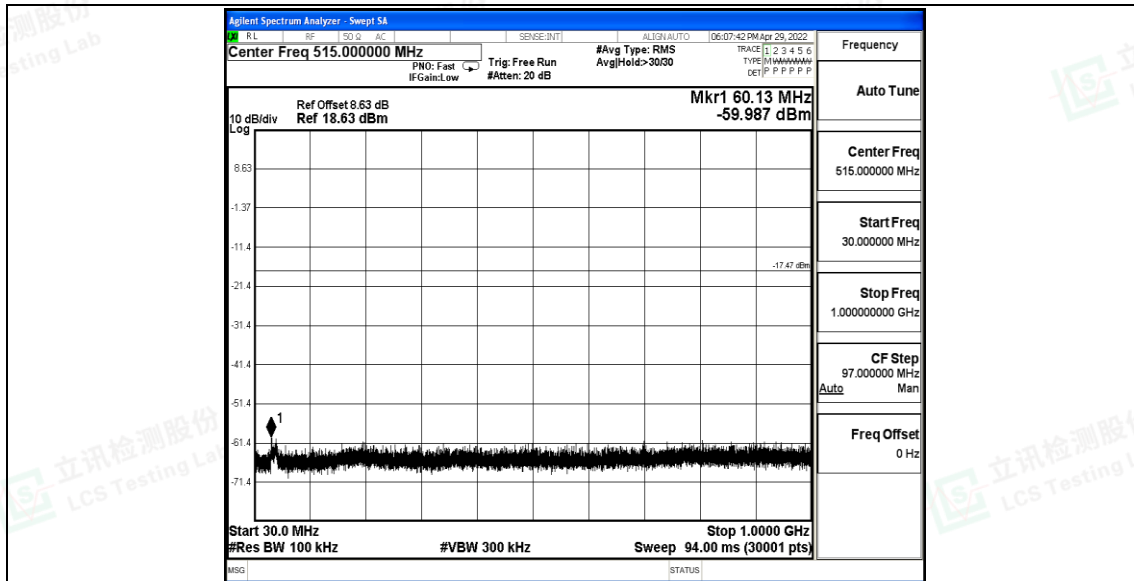


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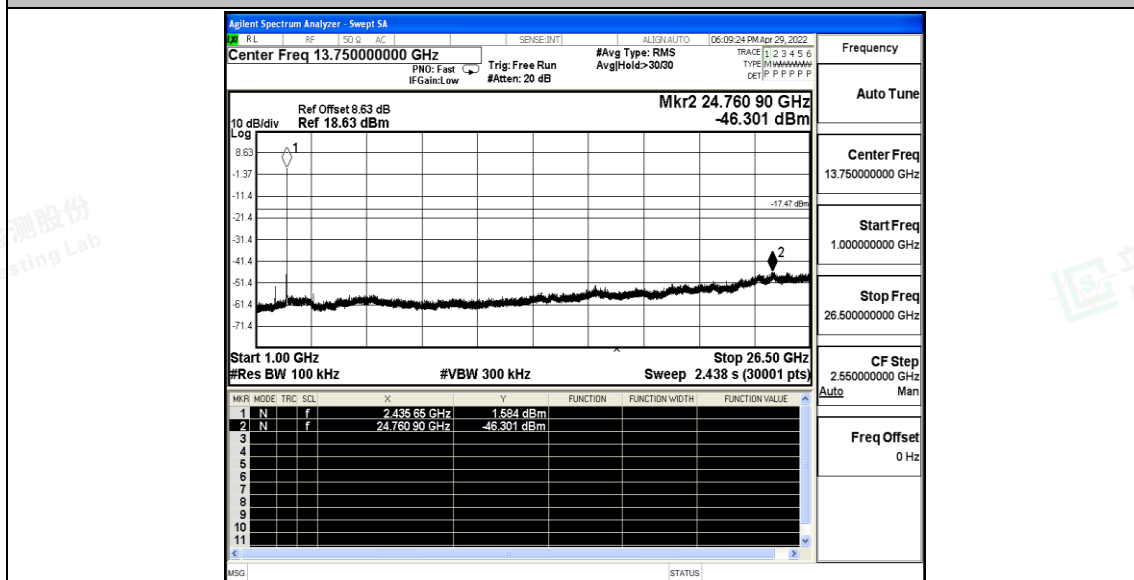
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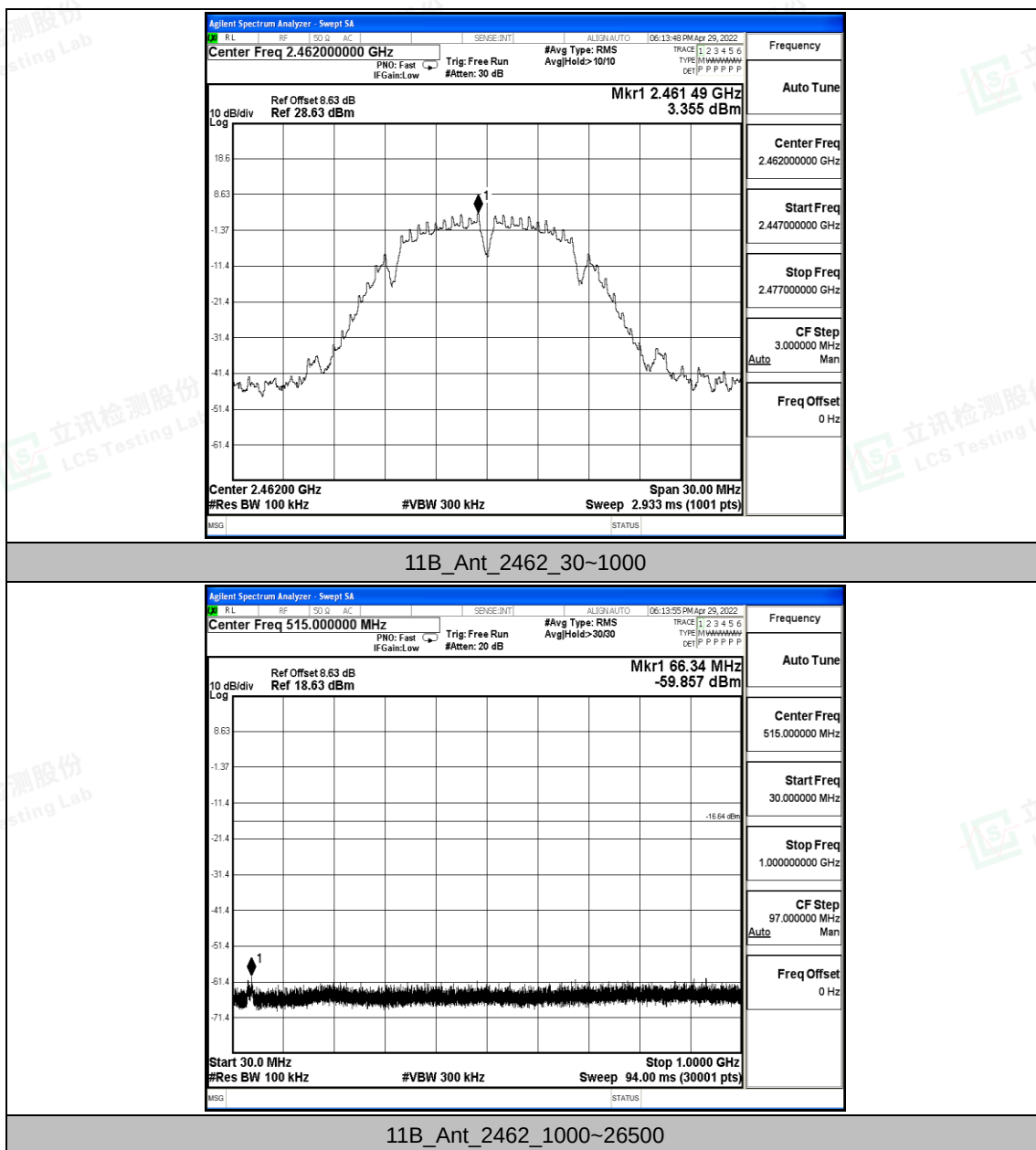


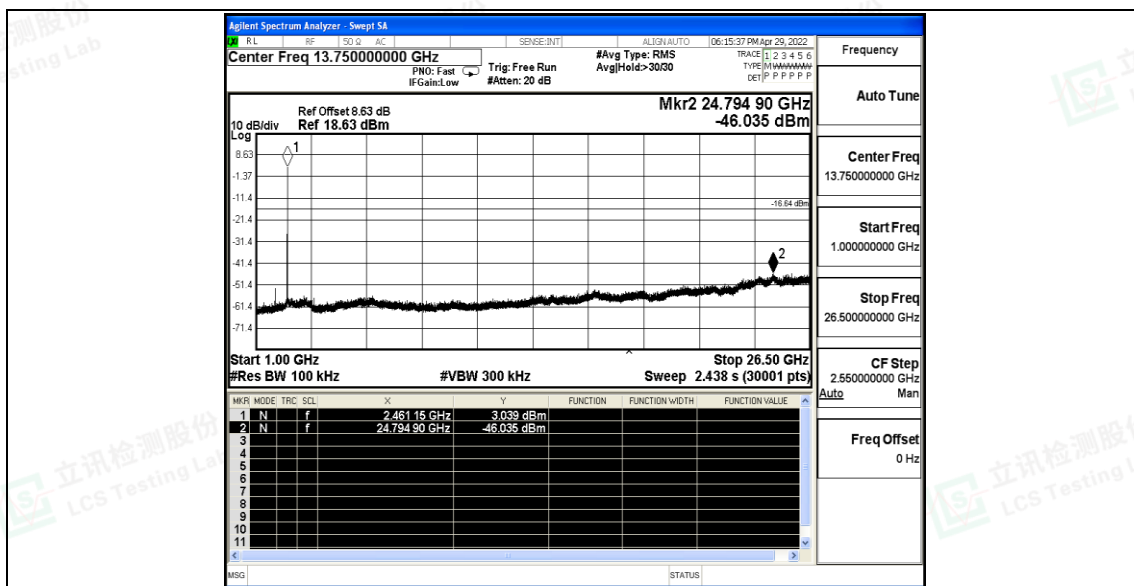
11B_Ant_2437_1000~26500



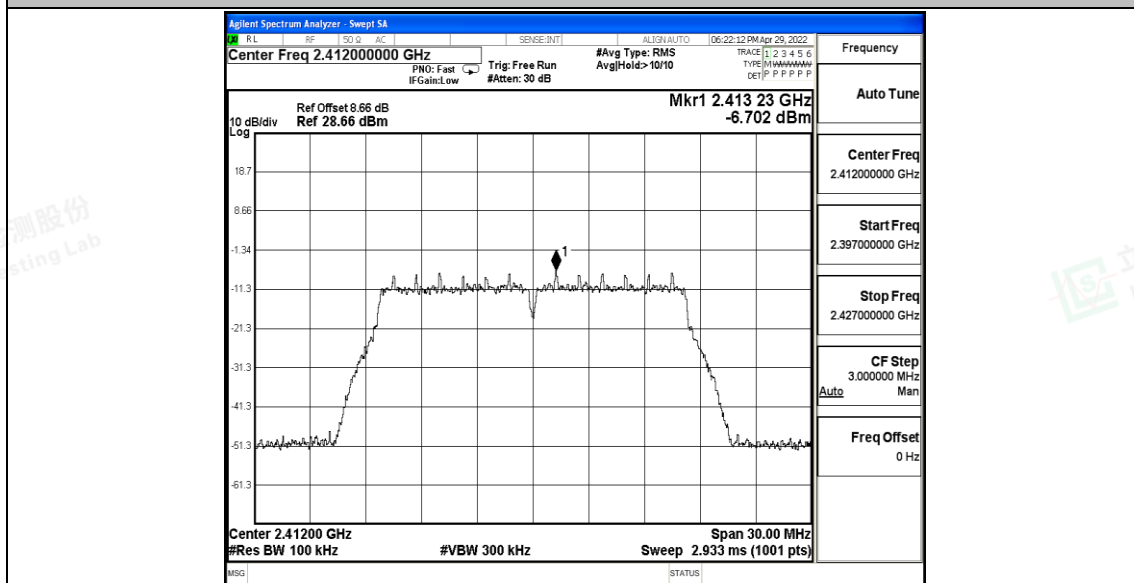
11B_Ant_2462_0~Reference







11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000



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