



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Wireless charging intelligent atmosphere lamp

Test Model: KR02P

Environmental Conditions

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





B.1 DTS Bandwidth

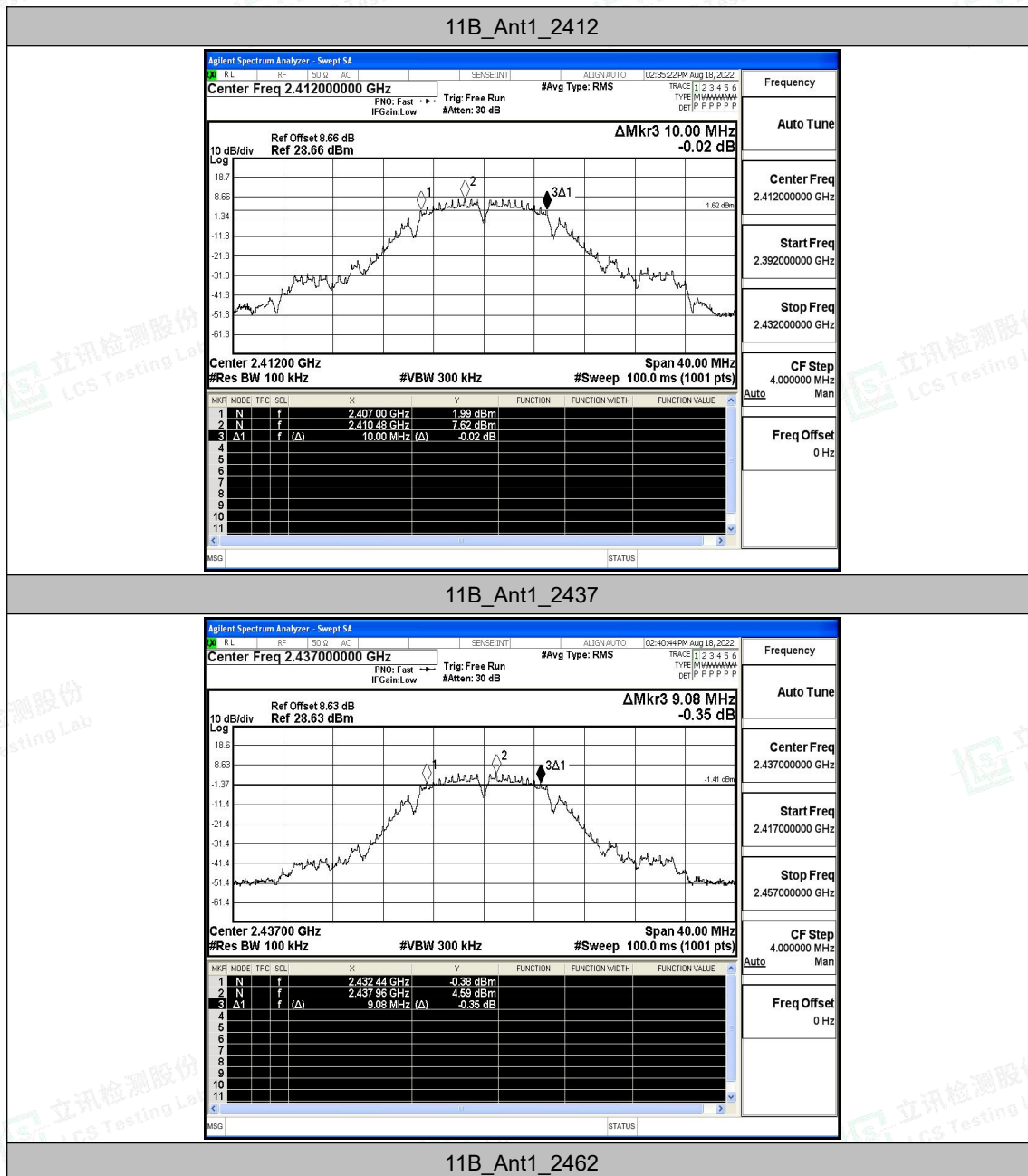
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.000	2417.000	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	15.280	2404.240	2419.520	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	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	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.240	2439.840	0.5	PASS
		2437	35.760	2419.080	2454.840	0.5	PASS
		2452	35.680	2434.160	2469.840	0.5	PASS





Test Graphs

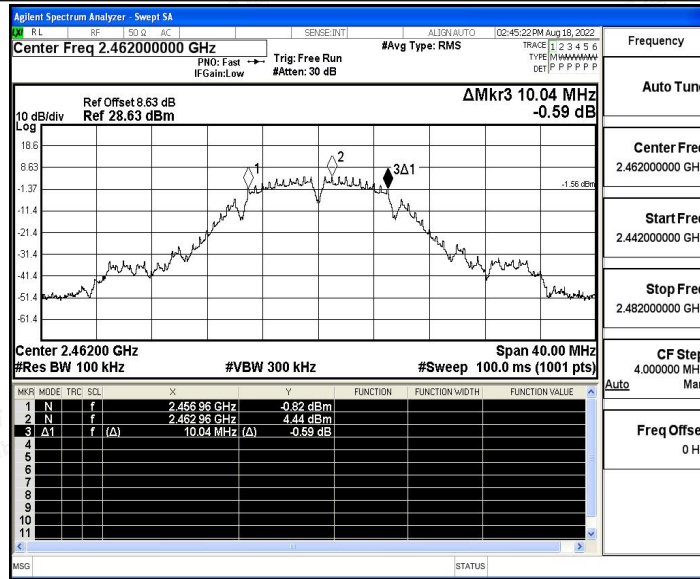


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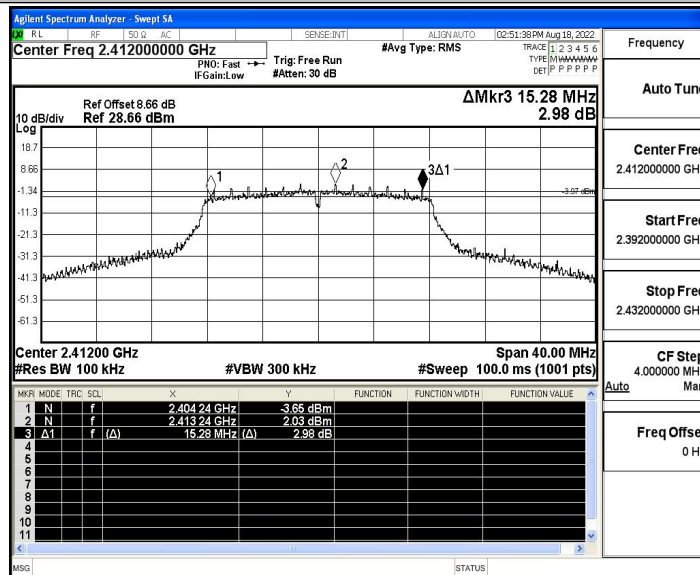
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11G_Ant1_2412



11G_Ant1_2437

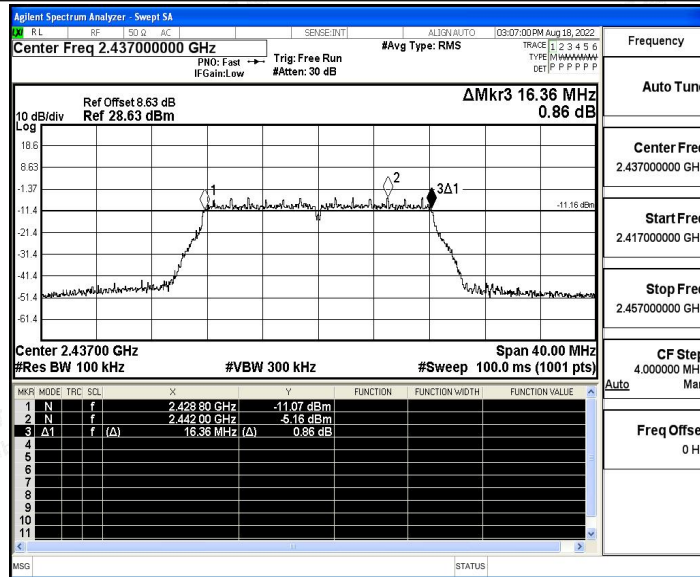


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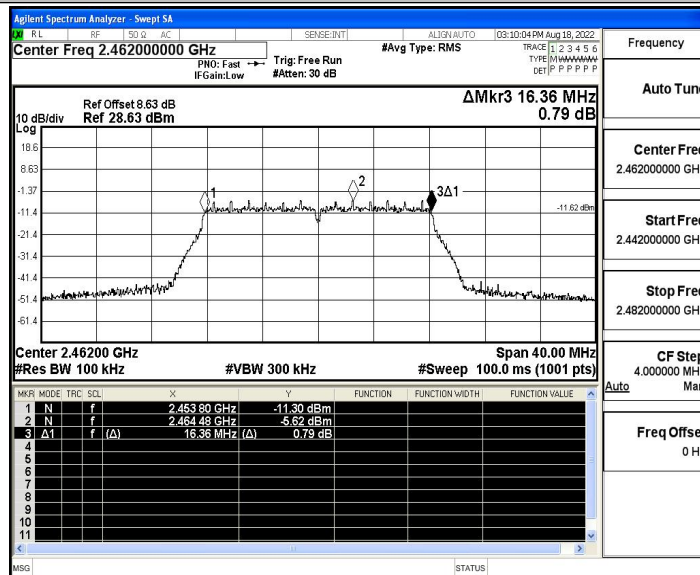
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11G_Ant1_2462



11N20SISO_Ant1_2412

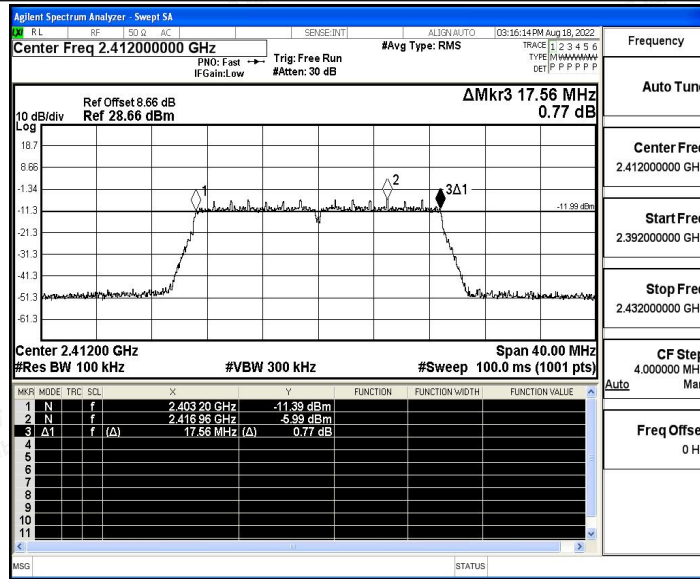


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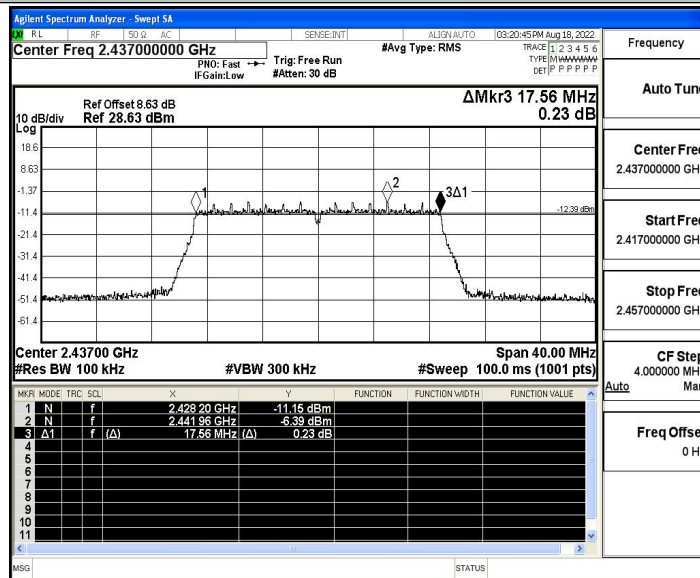
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

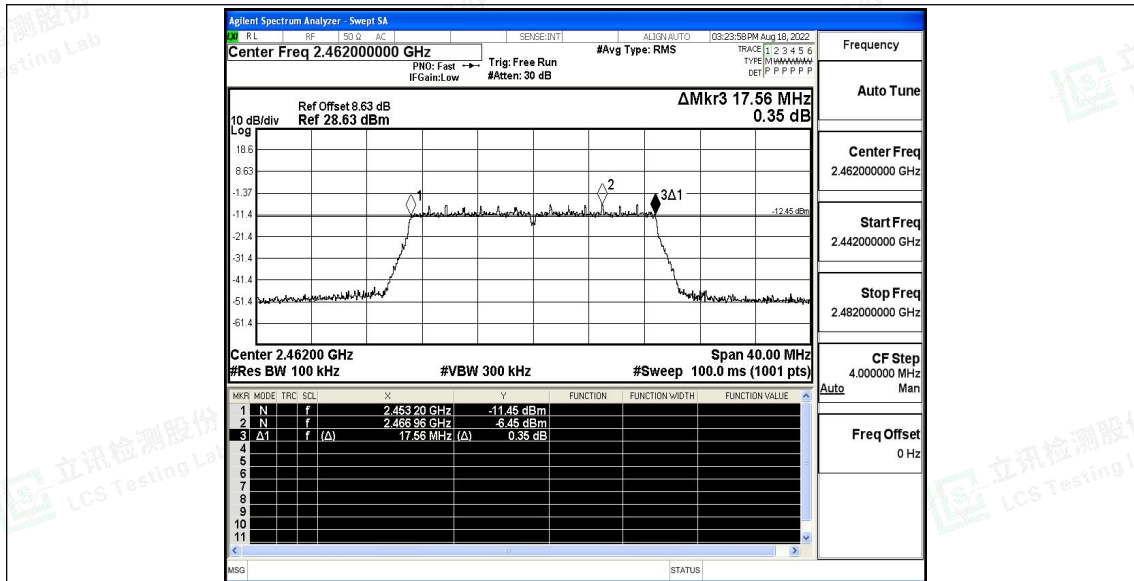


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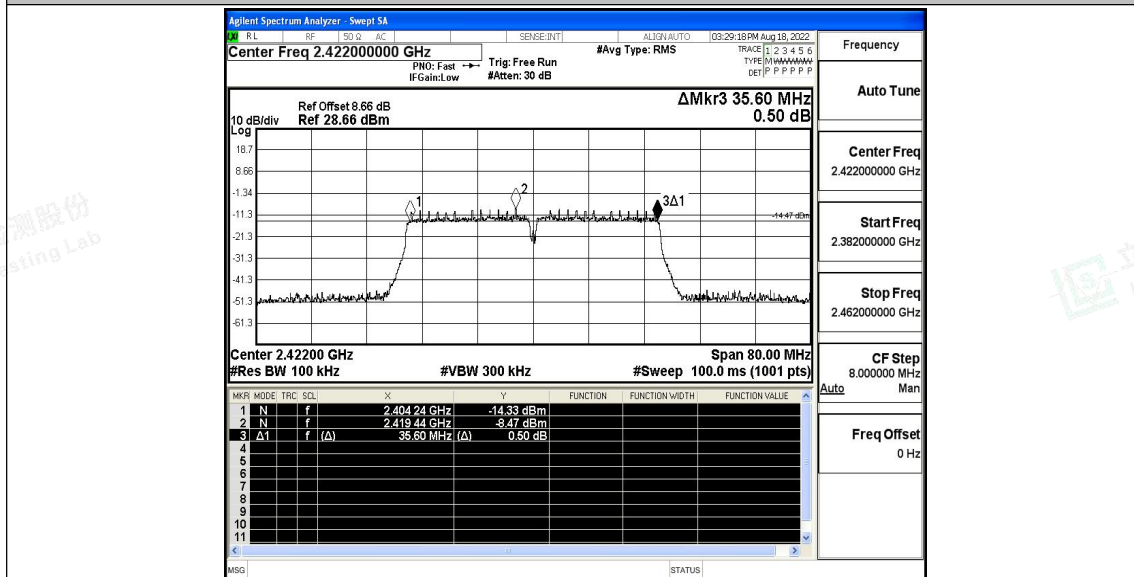
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

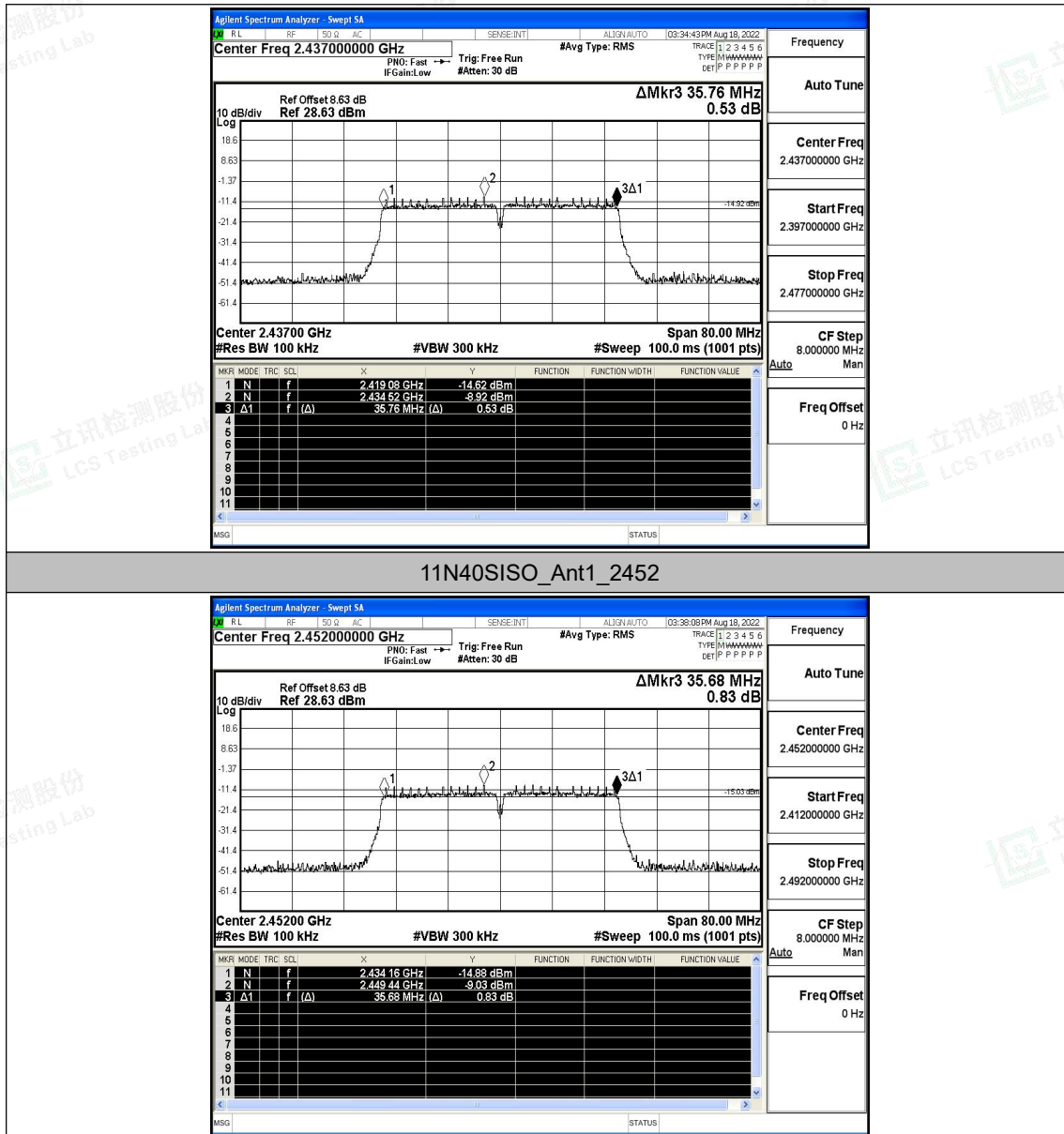


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B.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	15.37	≤30.00	PASS
		2437	15.07	≤30.00	PASS
		2462	14.83	≤30.00	PASS
11G	Ant1	2412	14.69	≤30.00	PASS
		2437	14.38	≤30.00	PASS
		2462	14.10	≤30.00	PASS
11N20SISO	Ant1	2412	13.66	≤30.00	PASS
		2437	13.23	≤30.00	PASS
		2462	13.10	≤30.00	PASS
11N40SISO	Ant1	2422	13.79	≤30.00	PASS
		2437	13.46	≤30.00	PASS
		2452	13.37	≤30.00	PASS





B.3 Maximum power spectral density

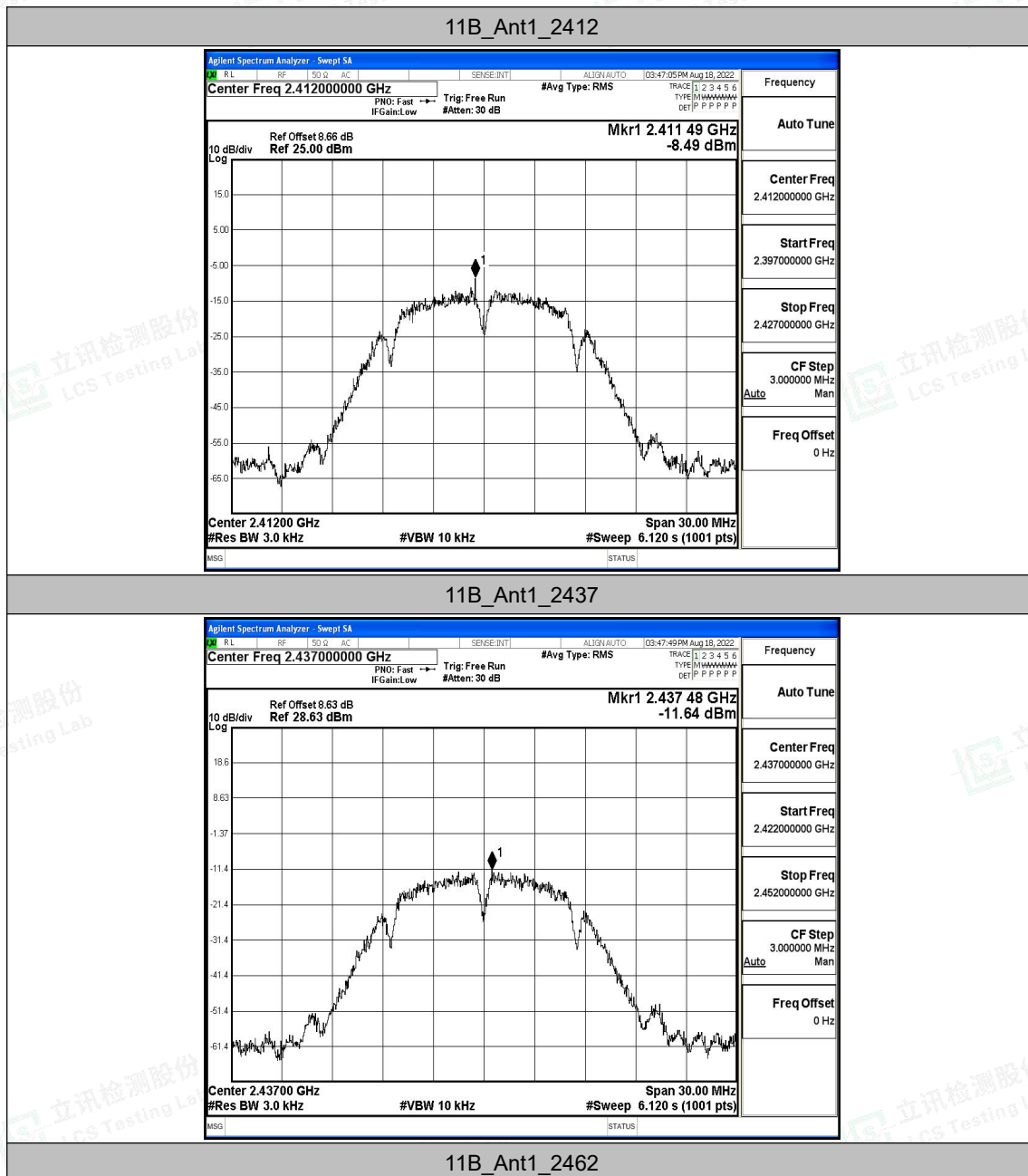
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Gain [dBi]	EIRP [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.5	≤8.00	0.00	-8.50	---	PASS
		2437	-11.64	≤8.00	0.00	-11.64	---	PASS
		2462	-12.39	≤8.00	0.00	-12.39	---	PASS
11G	Ant1	2412	-18.58	≤8.00	0.00	-18.58	---	PASS
		2437	-18.52	≤8.00	0.00	-18.52	---	PASS
		2462	-18.6	≤8.00	0.00	-18.60	---	PASS
11N20SISO	Ant1	2412	-20	≤8.00	0.00	-20.00	---	PASS
		2437	-20.77	≤8.00	0.00	-20.77	---	PASS
		2462	-21.45	≤8.00	0.00	-21.45	---	PASS
11N40SISO	Ant1	2422	-23.12	≤8.00	0.00	-23.12	---	PASS
		2437	-22.98	≤8.00	0.00	-22.98	---	PASS
		2452	-22.54	≤8.00	0.00	-22.54	---	PASS





Test Graphs

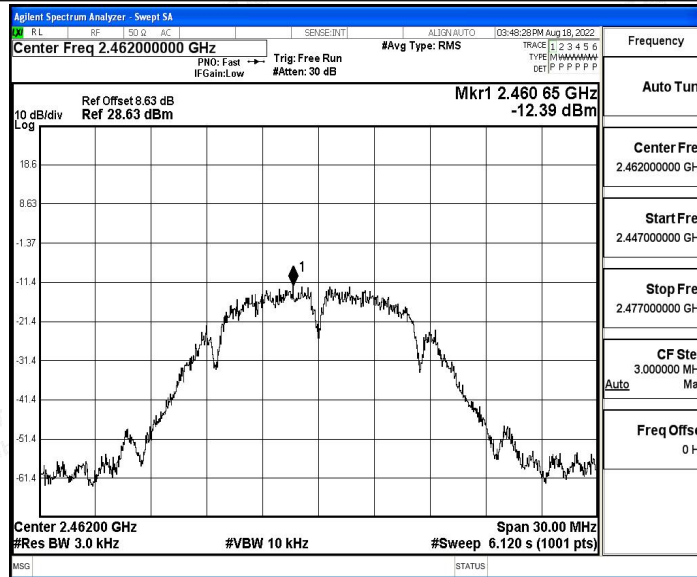


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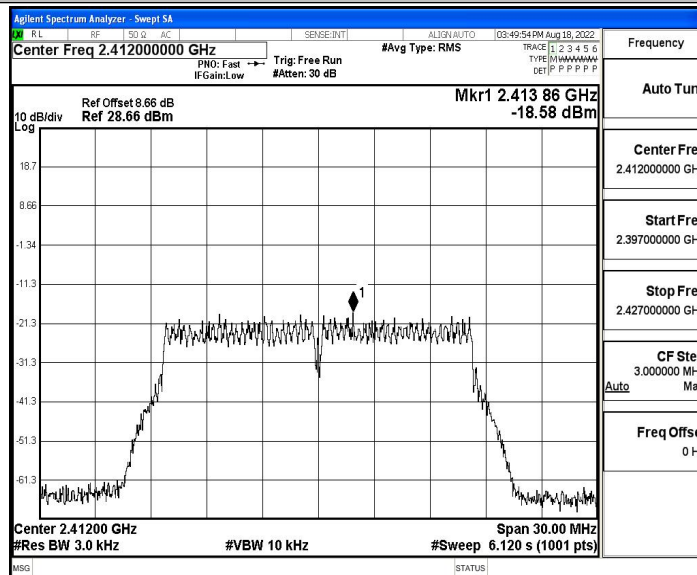
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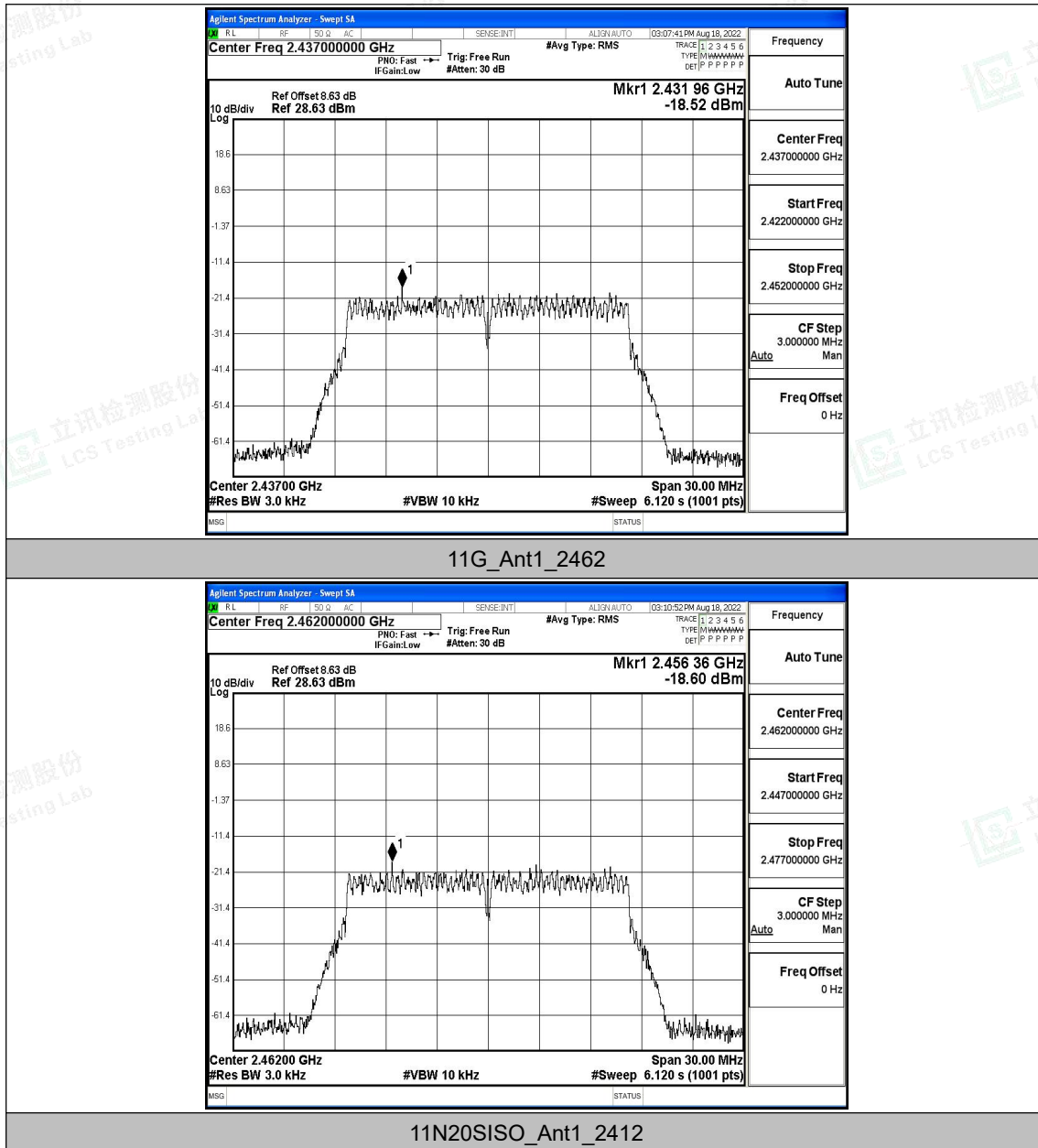


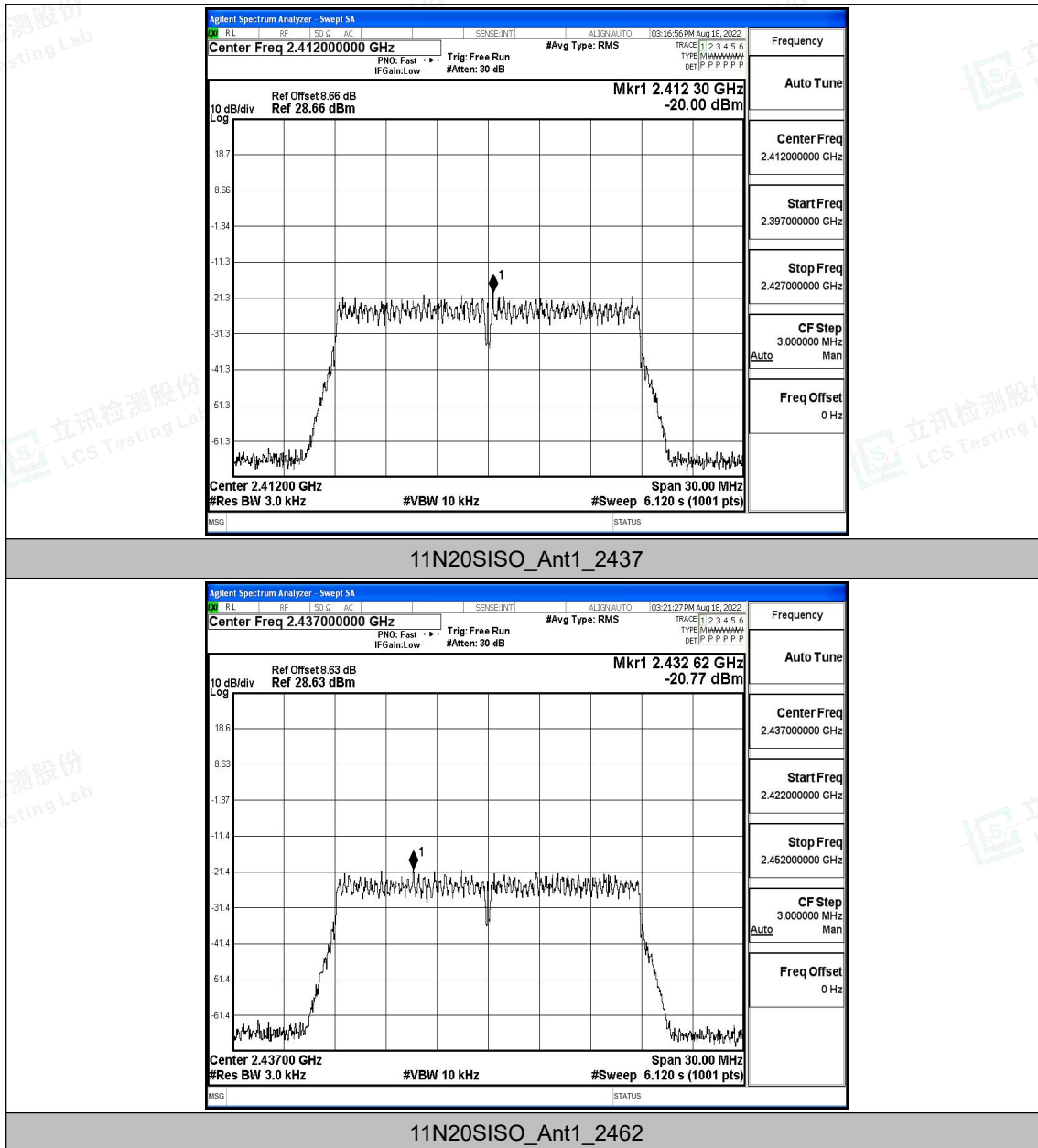
11G_Ant1_2412

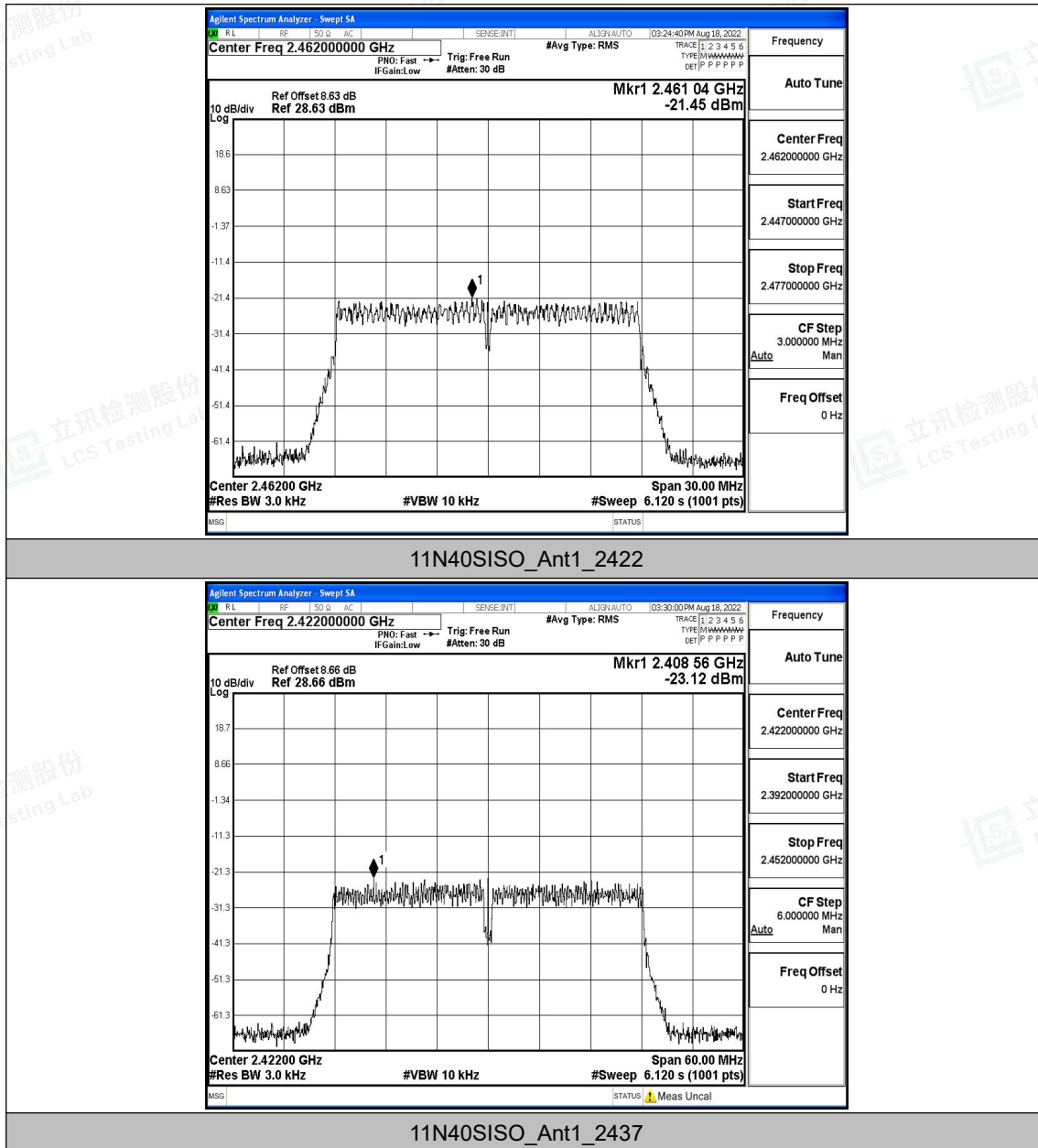


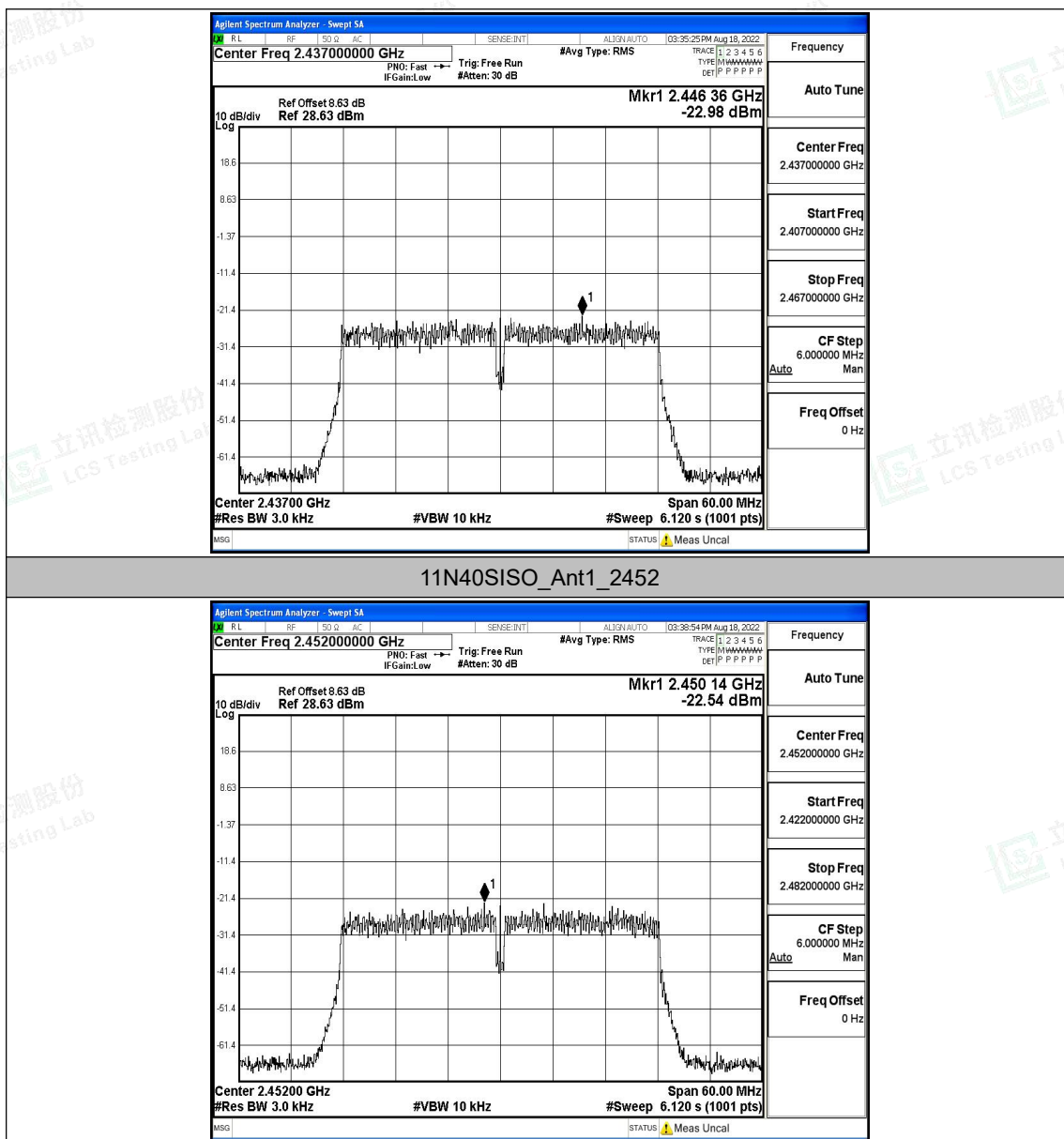
11G_Ant1_2437













B.4 Band edge measurements

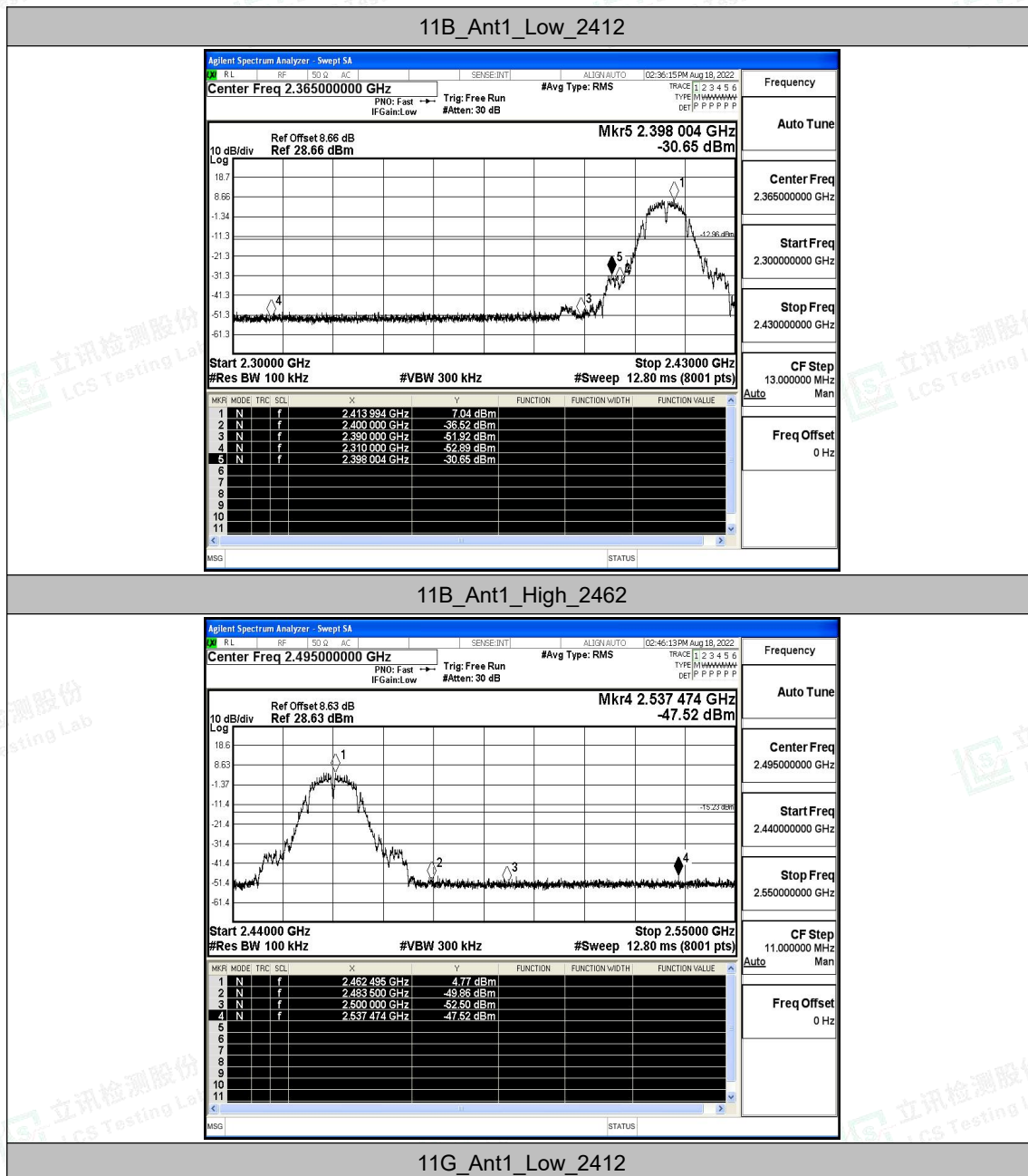
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.04	-30.65	≤ -12.96	PASS
		High	2462	4.77	-47.52	≤ -15.23	PASS
11G	Ant1	Low	2412	2.05	-30.24	≤ -17.95	PASS
		High	2462	-5.49	-48.05	≤ -25.49	PASS
11N20SISO	Ant1	Low	2412	-5.71	-47.99	≤ -25.71	PASS
		High	2462	-6.54	-48.29	≤ -26.54	PASS
11N40SISO	Ant1	Low	2422	-8.62	-46.54	≤ -28.62	PASS
		High	2452	-9.15	-47.14	≤ -29.15	PASS





Test Graphs

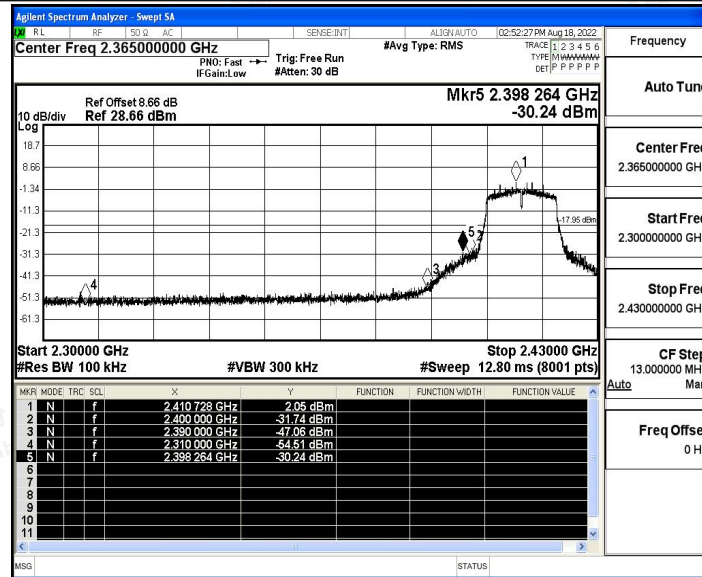


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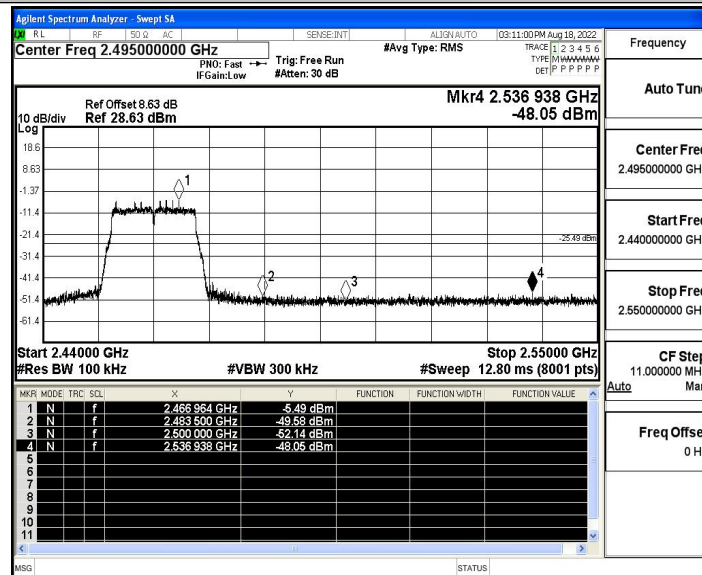
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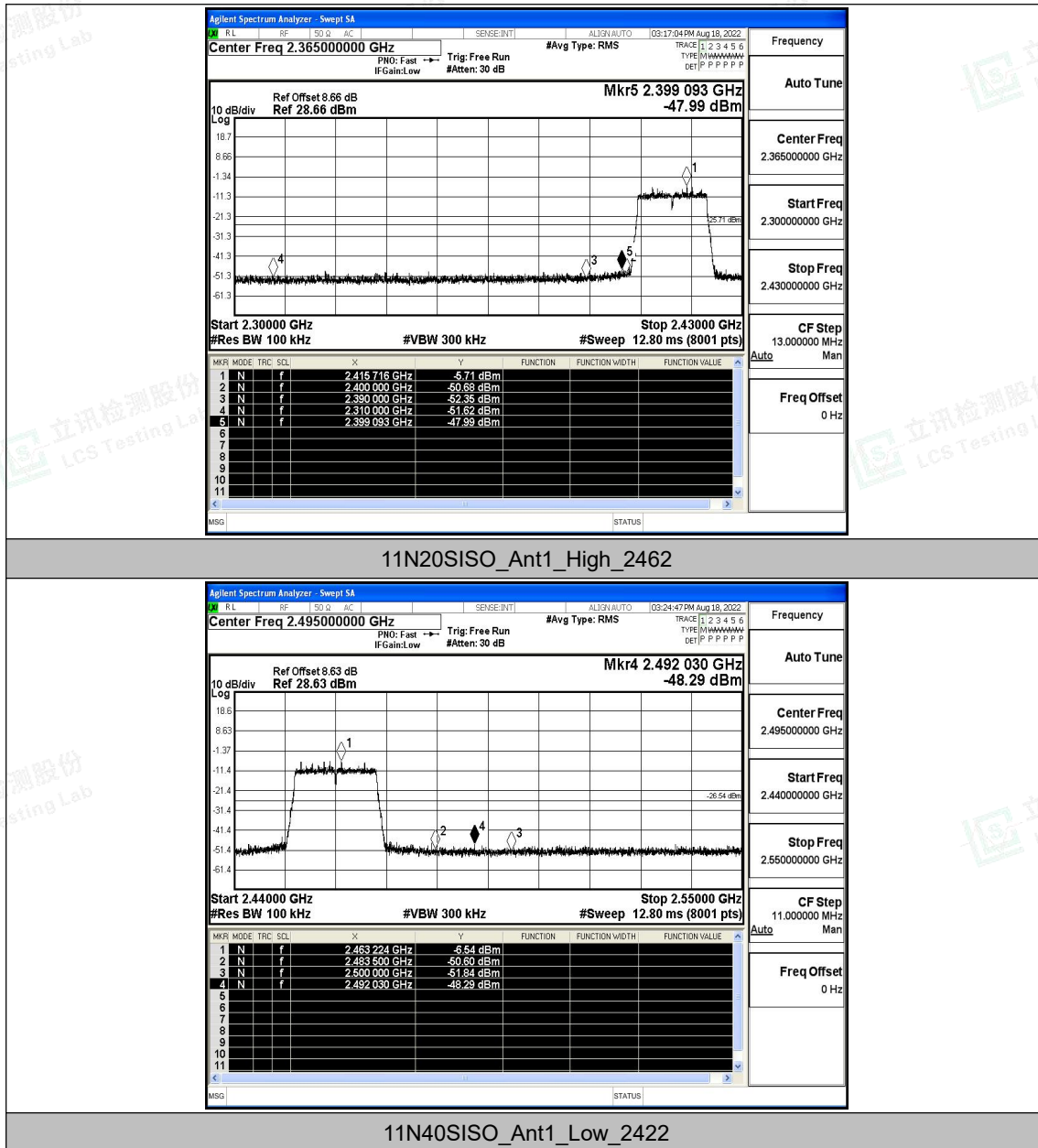


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



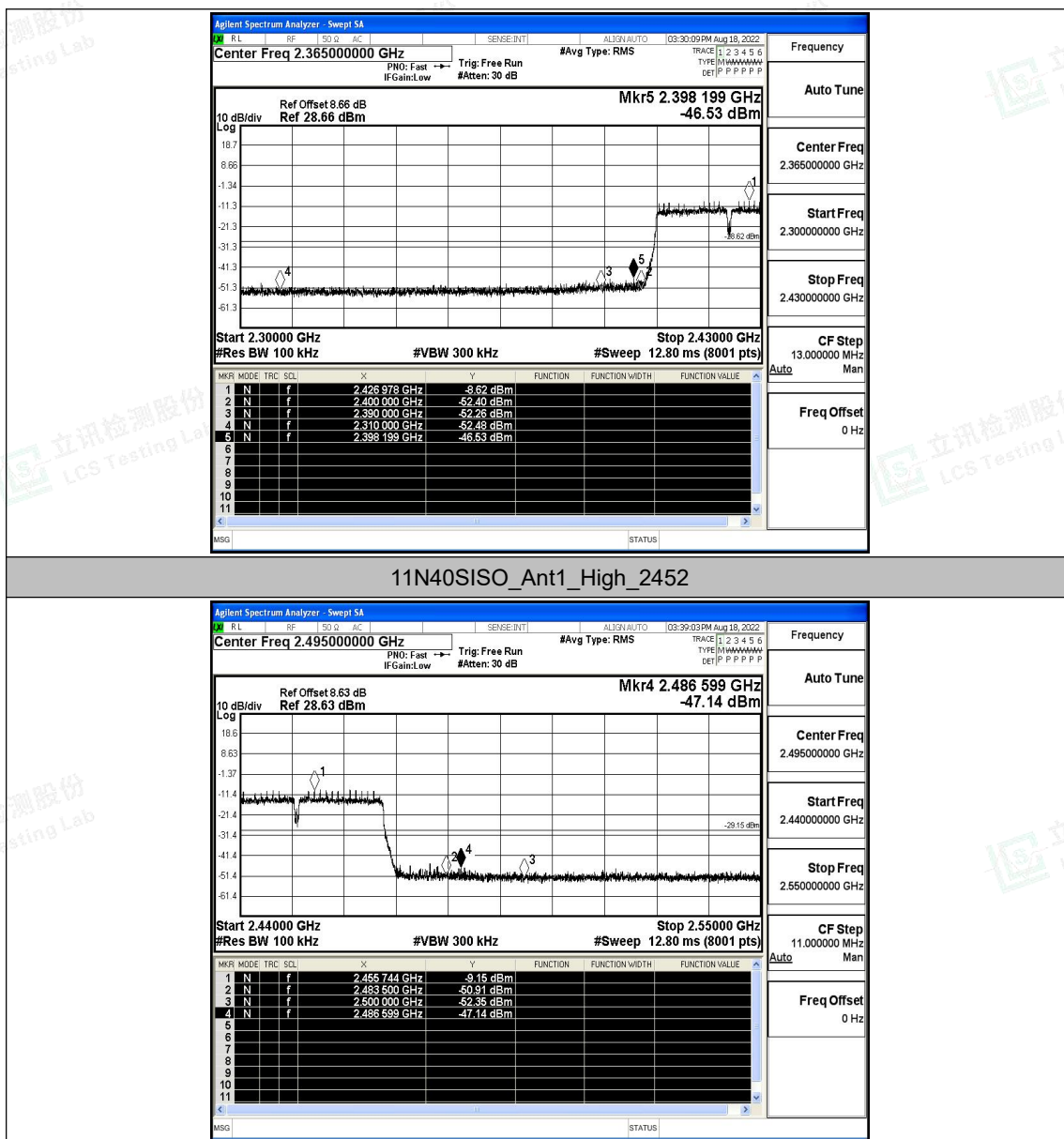


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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.54	6.54	---	PASS
			30~1000	6.54	-60.14	≤-13.46	PASS
			1000~26500	6.54	-46.08	≤-13.46	PASS
		2437	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-60.59	≤-16.18	PASS
			1000~26500	3.82	-46.26	≤-16.18	PASS
		2462	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-60.84	≤-16.55	PASS
			1000~26500	3.45	-46.27	≤-16.55	PASS
11G	Ant1	2412	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-60.2	≤-17.81	PASS
			1000~26500	2.19	-45.52	≤-17.81	PASS
		2437	Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-60.97	≤-25.52	PASS
			1000~26500	-5.52	-46.14	≤-25.52	PASS
		2462	Reference	-8.48	-8.48	---	PASS
			30~1000	-8.48	-59.87	≤-28.48	PASS
			1000~26500	-8.48	-46.27	≤-28.48	PASS
11N20SISO	Ant1	2412	Reference	-9.33	-9.33	---	PASS
			30~1000	-9.33	-59.75	≤-29.33	PASS
			1000~26500	-9.33	-45.92	≤-29.33	PASS
		2437	Reference	-6.91	-6.91	---	PASS
			30~1000	-6.91	-60.05	≤-26.91	PASS
			1000~26500	-6.91	-45.27	≤-26.91	PASS
		2462	Reference	-9.42	-9.42	---	PASS
			30~1000	-9.42	-60.9	≤-29.42	PASS
			1000~26500	-9.42	-46	≤-29.42	PASS
11N40SISO	Ant1	2422	Reference	-9.31	-9.31	---	PASS
			30~1000	-9.31	-60.31	≤-29.31	PASS
			1000~26500	-9.31	-45.92	≤-29.31	PASS
		2437	Reference	-9.86	-9.86	---	PASS
			30~1000	-9.86	-60.51	≤-29.86	PASS
			1000~26500	-9.86	-45.26	≤-29.86	PASS
		2452	Reference	-9.27	-9.27	---	PASS
			30~1000	-9.27	-61.15	≤-29.27	PASS





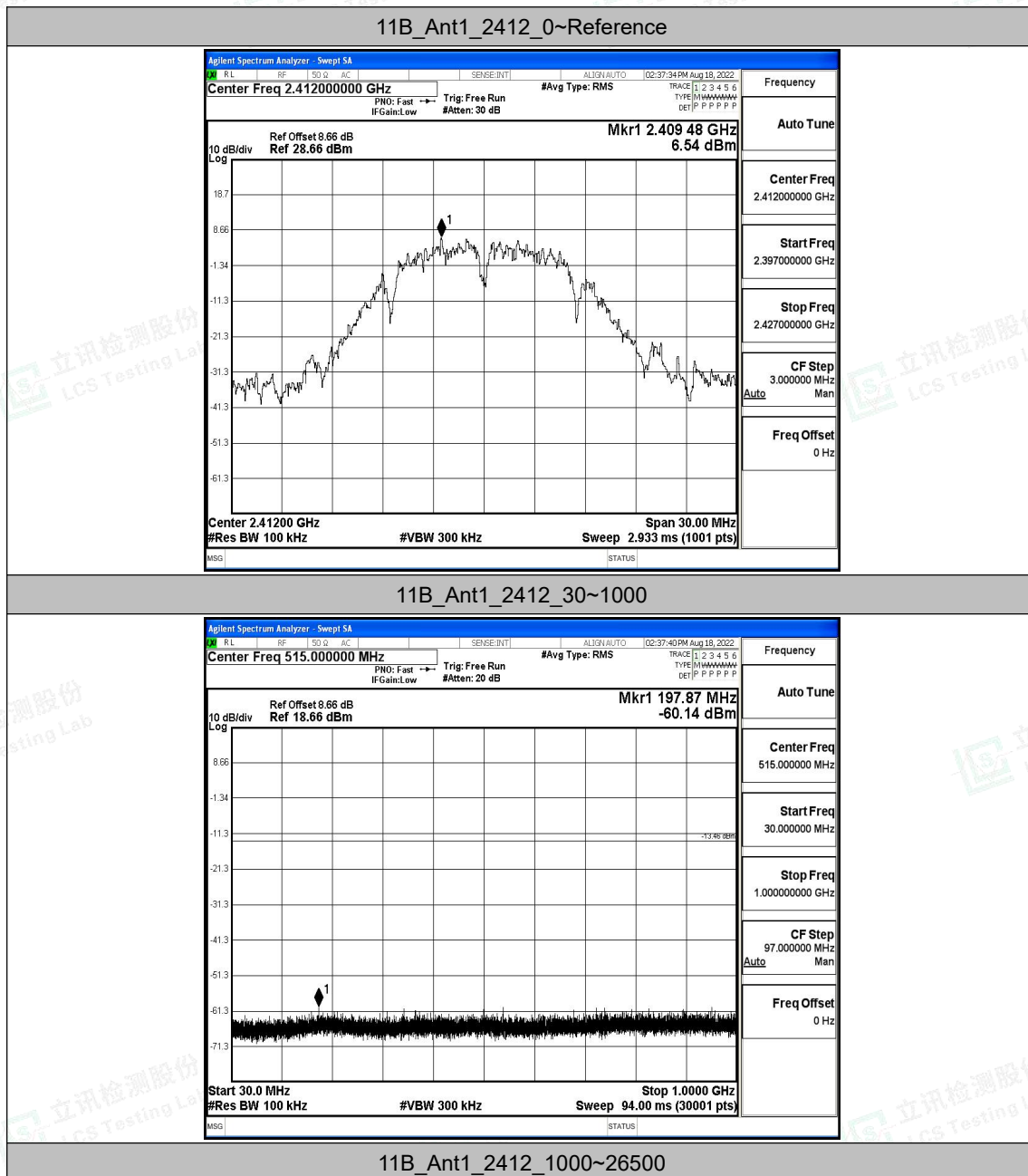
			1000~26500	-9.27	-46.28	≤-29.27	PASS
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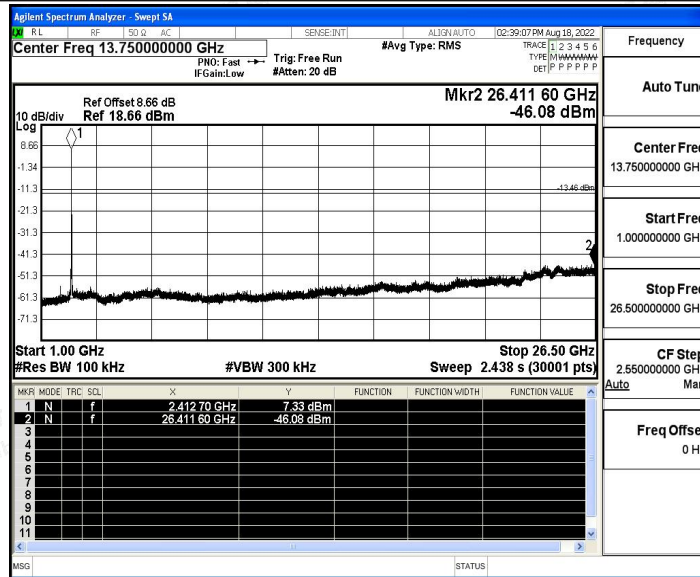


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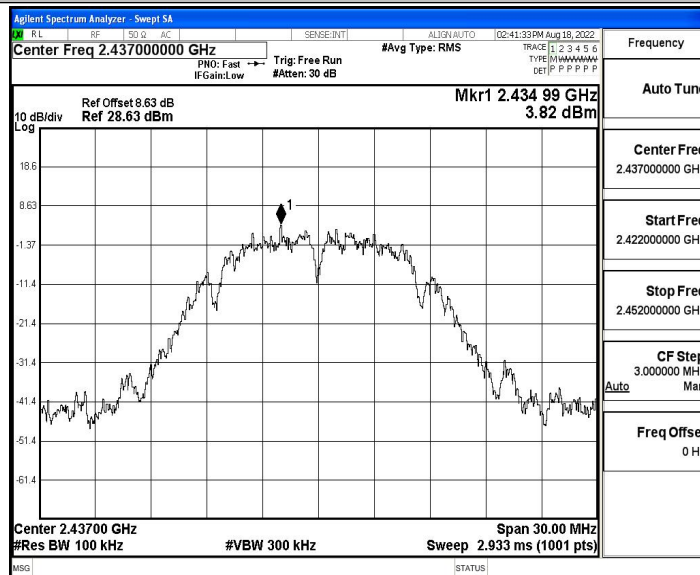


Test Graphs





11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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