



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Notebook

Test Model: X1450E

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
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	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.440	2403.720	2420.160	0.5	PASS
		2437	16.400	2428.760	2445.160	0.5	PASS
		2462	16.400	2453.760	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.600	2428.160	2445.760	0.5	PASS
		2462	17.600	2453.160	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	36.320	2418.840	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS



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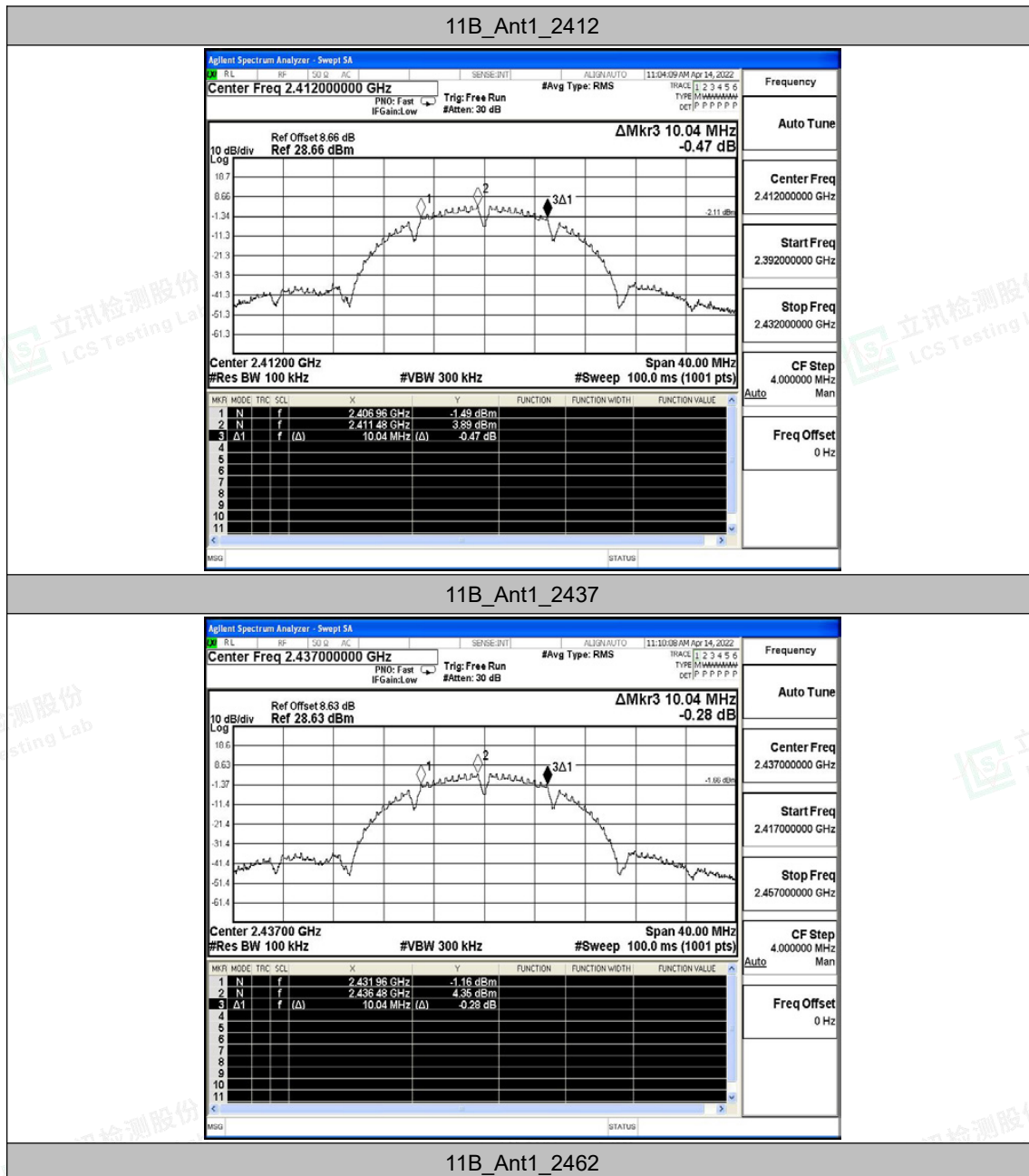
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Test Graphs

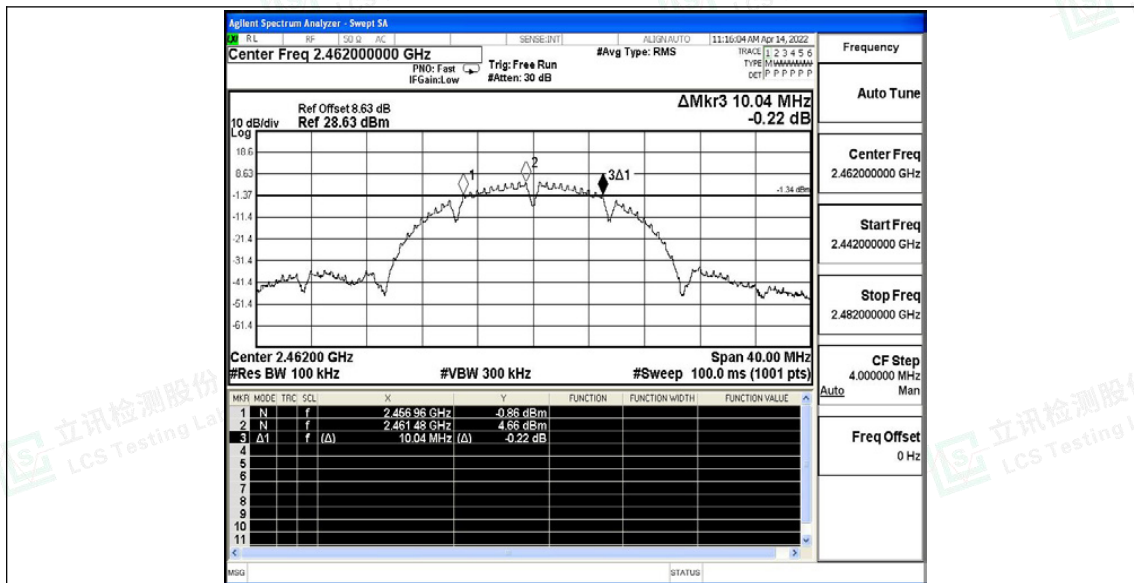


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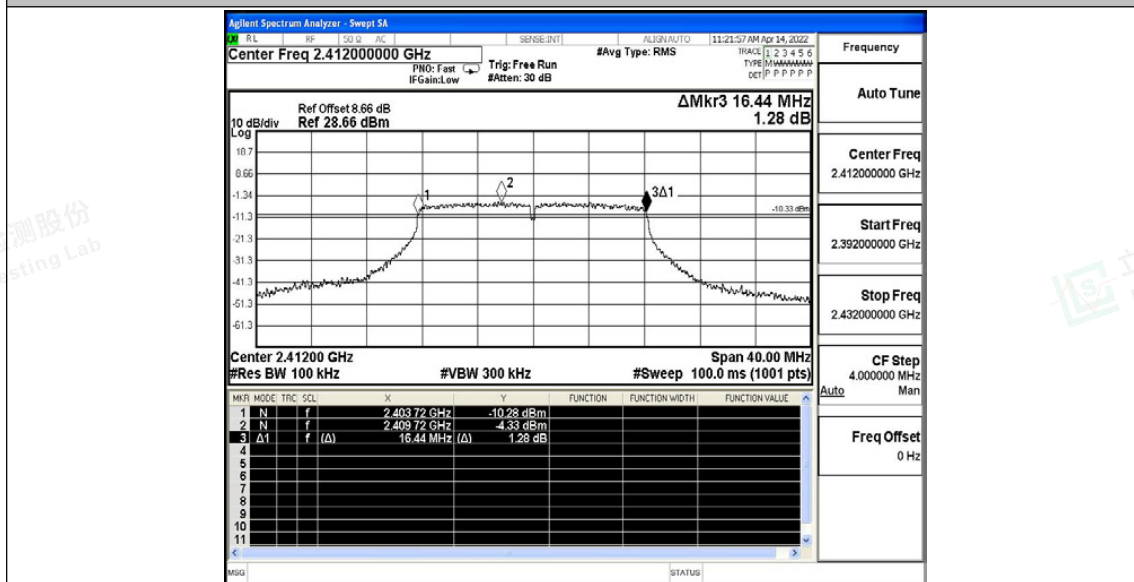
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11G_Ant1_2412



11G_Ant1_2437

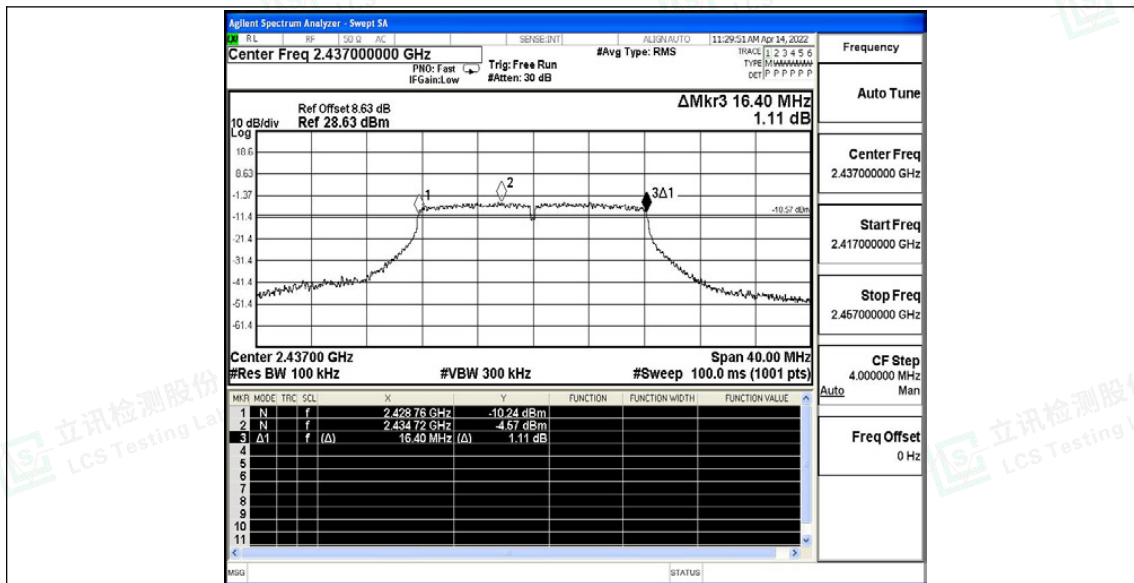


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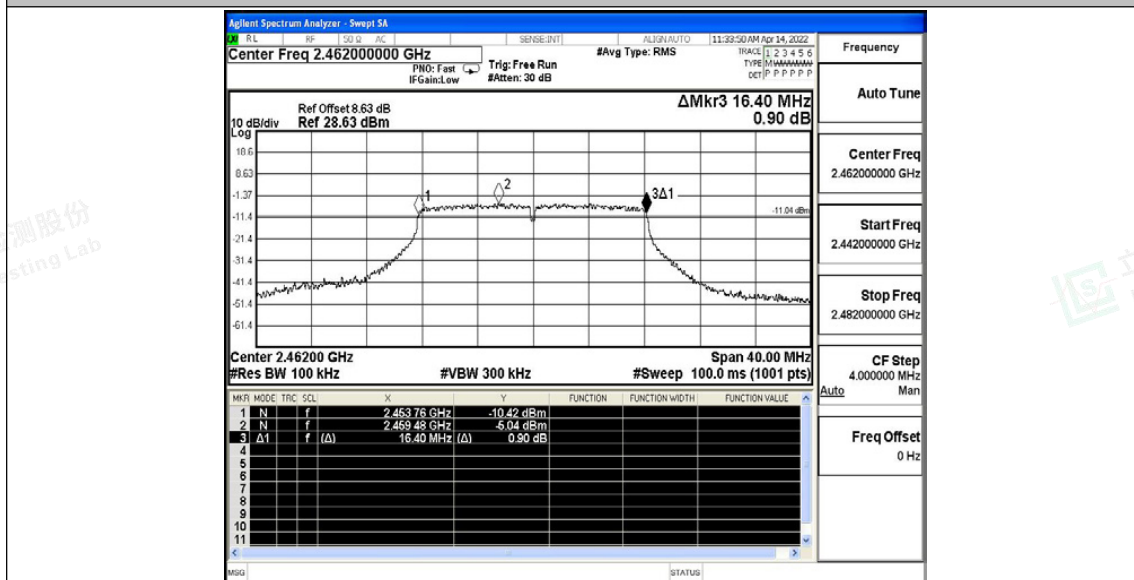
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11G_Ant1_2462



11N20SISO_Ant1_2412

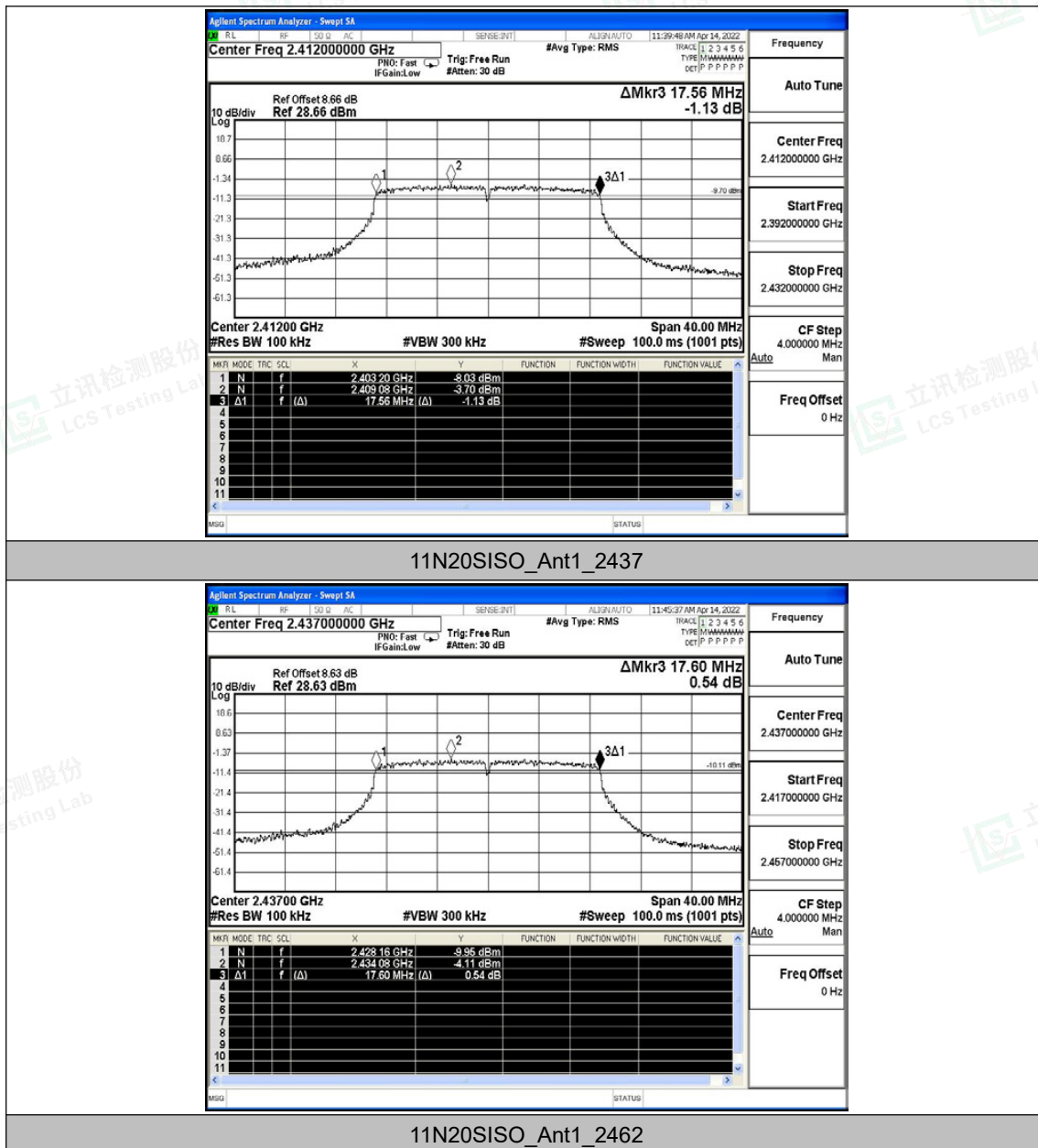


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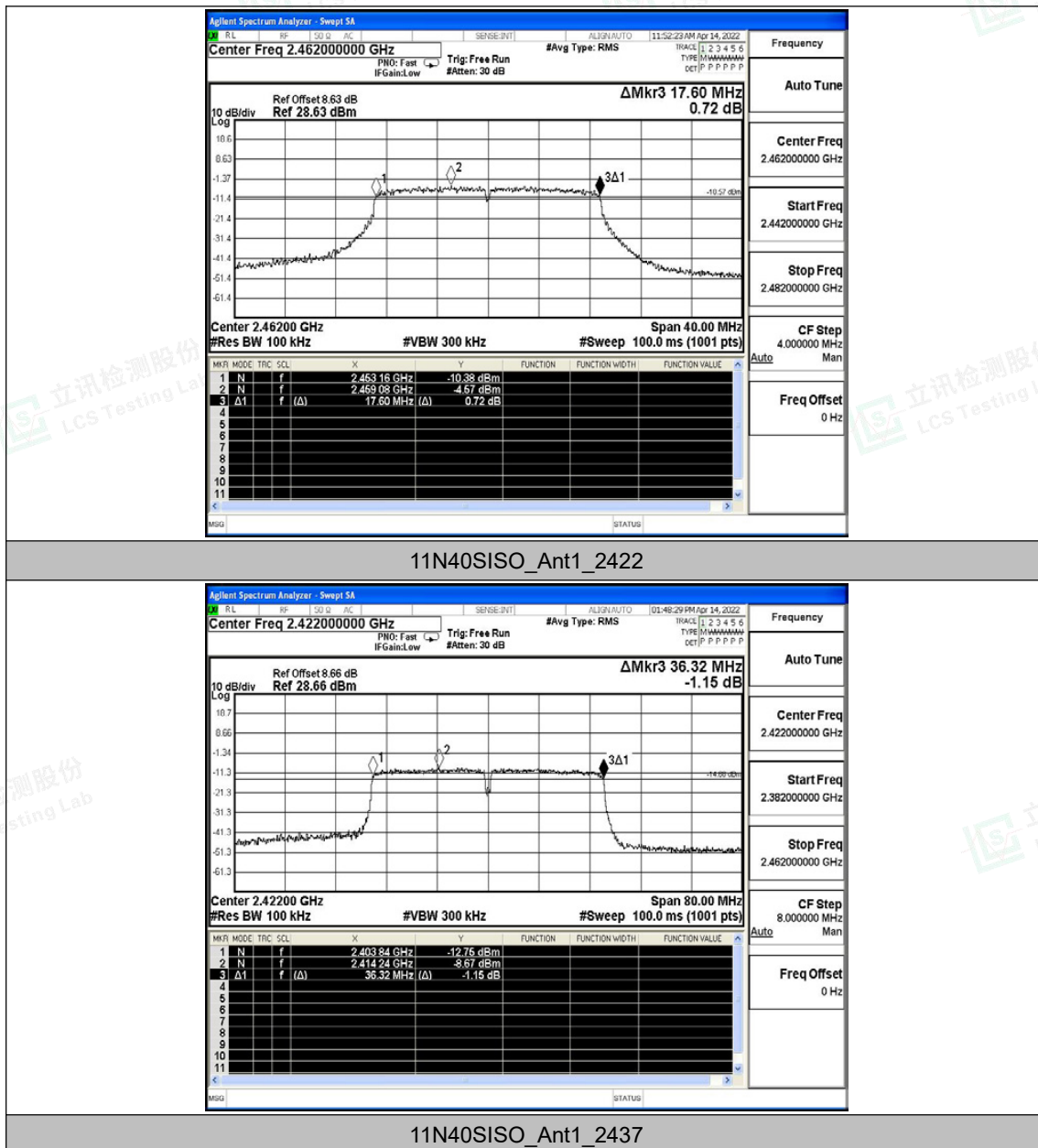


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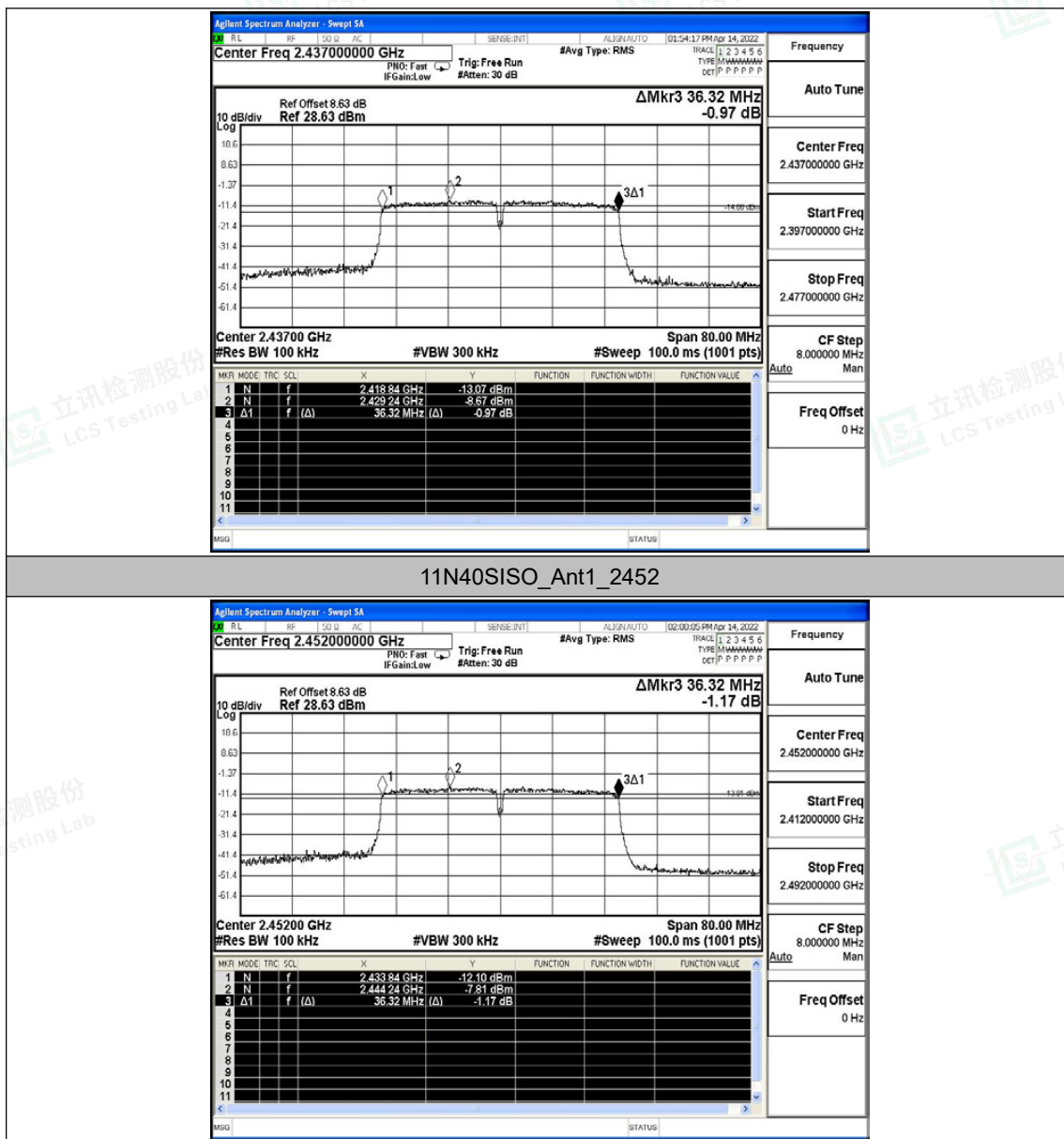


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.06	≤30.00	PASS
		2437	17.50	≤30.00	PASS
		2462	17.85	≤30.00	PASS
11G	Ant1	2412	17.74	≤30.00	PASS
		2437	17.53	≤30.00	PASS
		2462	17.09	≤30.00	PASS
11N20SISO	Ant1	2412	17.84	≤30.00	PASS
		2437	17.55	≤30.00	PASS
		2462	17.13	≤30.00	PASS
11N40SISO	Ant1	2422	16.27	≤30.00	PASS
		2437	16.39	≤30.00	PASS
		2452	17.03	≤30.00	PASS



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.26	≤8.00	PASS
		2437	-15.67	≤8.00	PASS
		2462	-15.46	≤8.00	PASS
11G	Ant1	2412	-18.55	≤8.00	PASS
		2437	-18.85	≤8.00	PASS
		2462	-19.46	≤8.00	PASS
11N20SISO	Ant1	2412	-18.45	≤8.00	PASS
		2437	-18.48	≤8.00	PASS
		2462	-19.37	≤8.00	PASS
11N40SISO	Ant1	2422	-21.11	≤8.00	PASS
		2437	-21.66	≤8.00	PASS
		2452	-20.29	≤8.00	PASS



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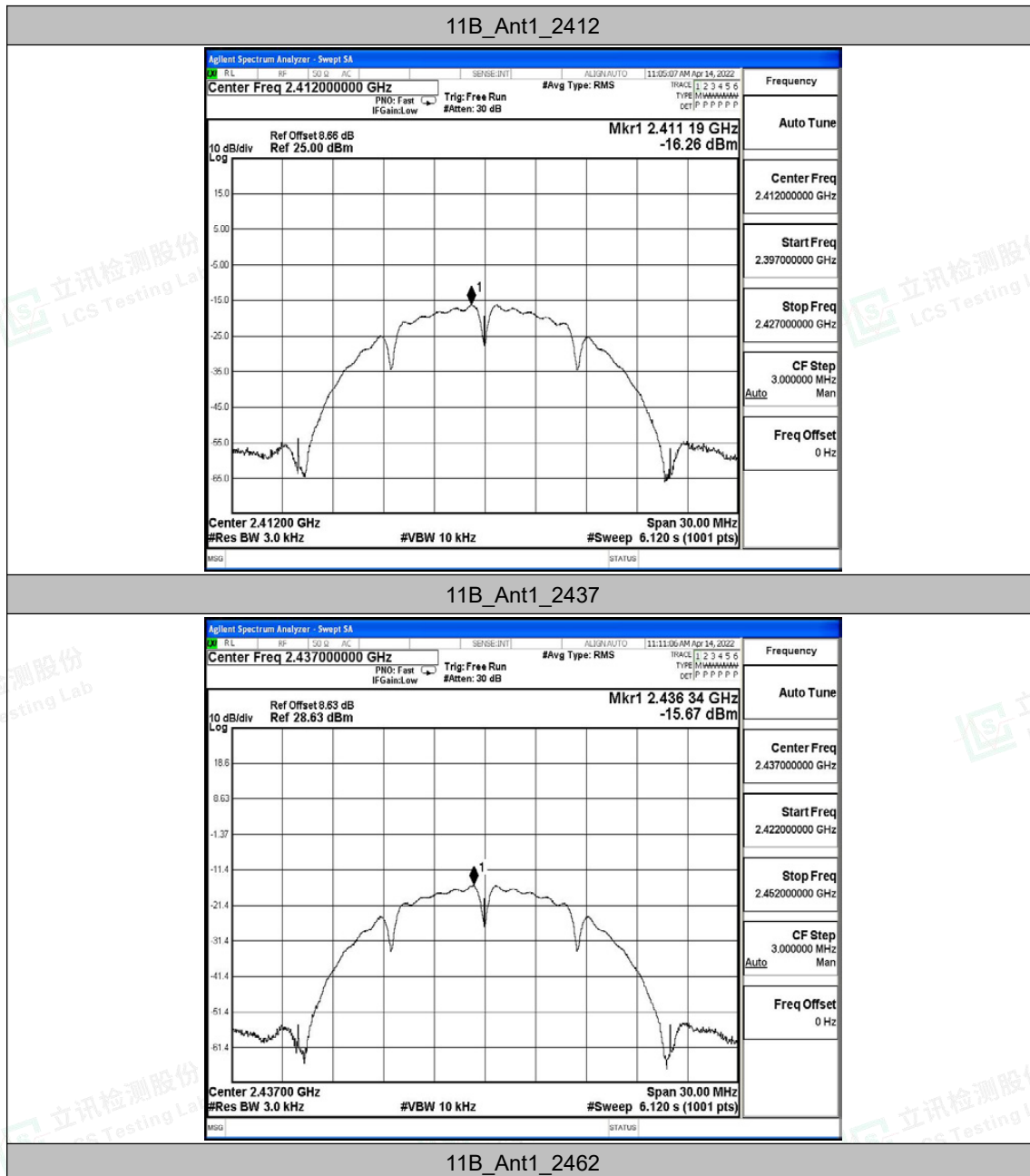
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Test Graphs

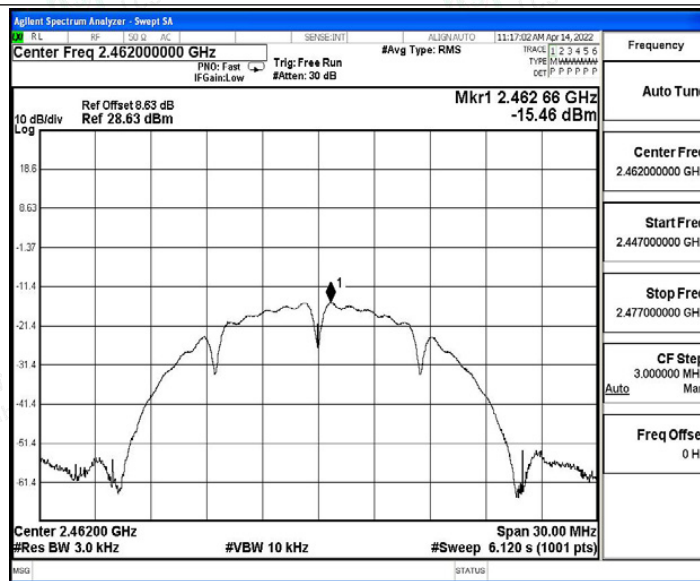


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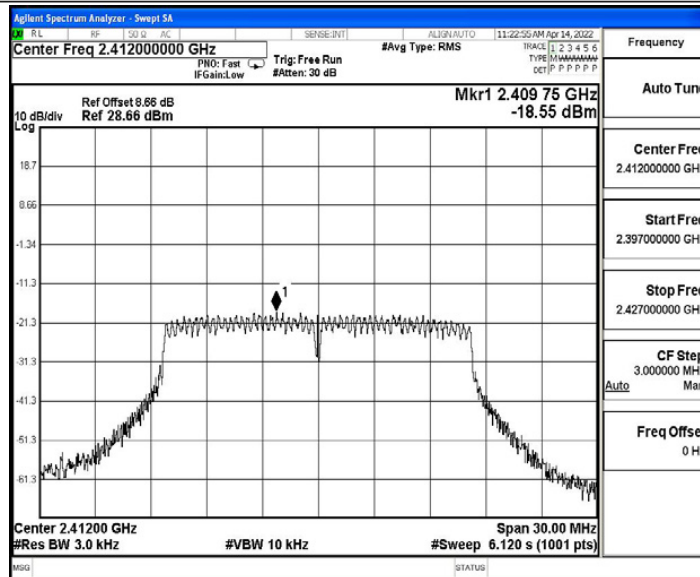
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11G_Ant1_2412



11G_Ant1_2437

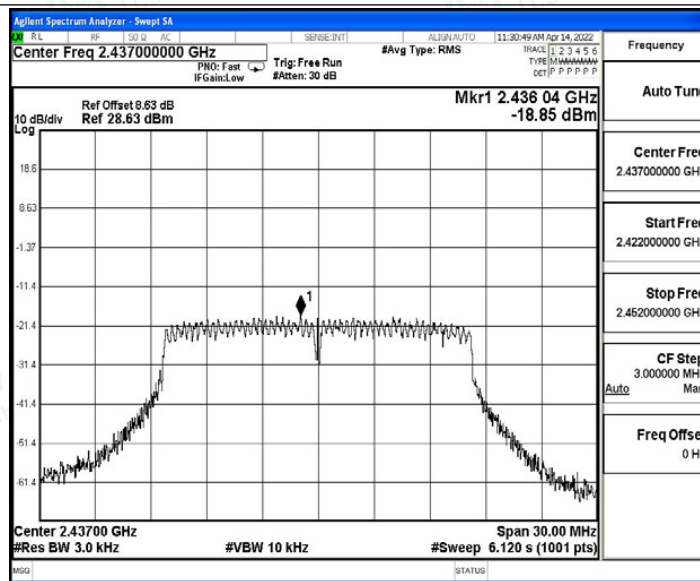


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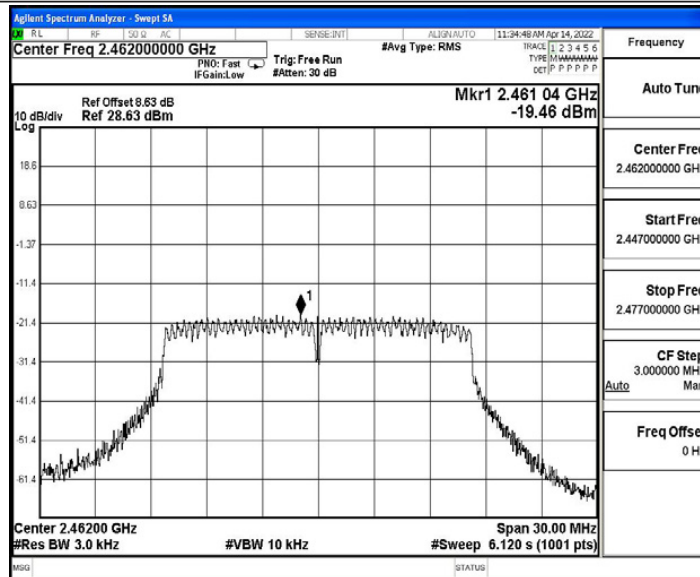
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11G_Ant1_2462



11N20SISO_Ant1_2412

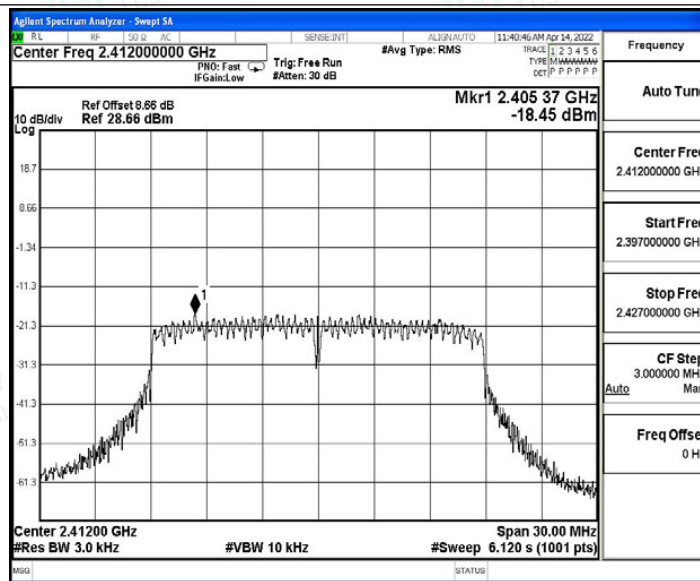


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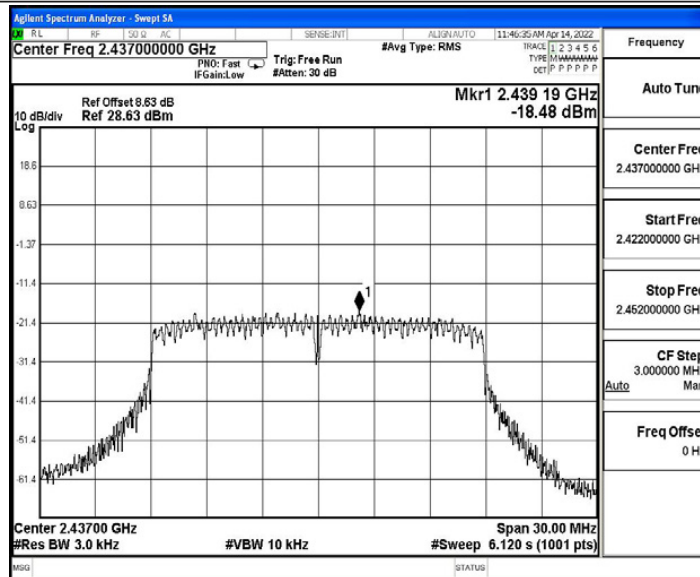
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

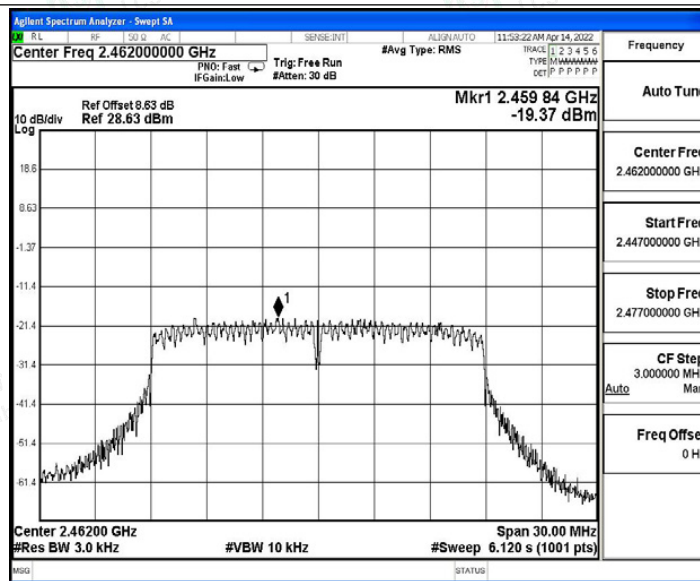


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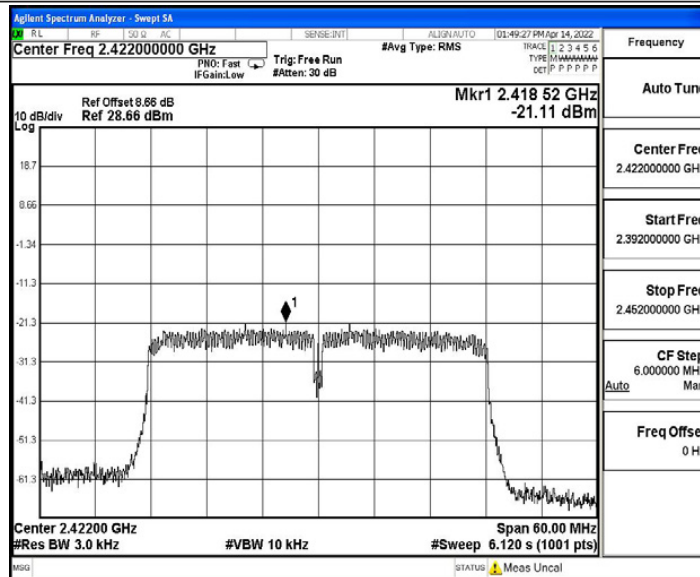
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

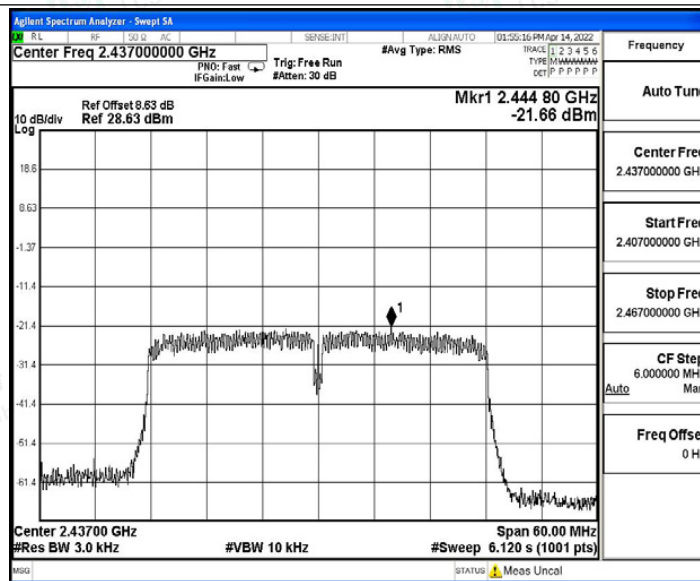


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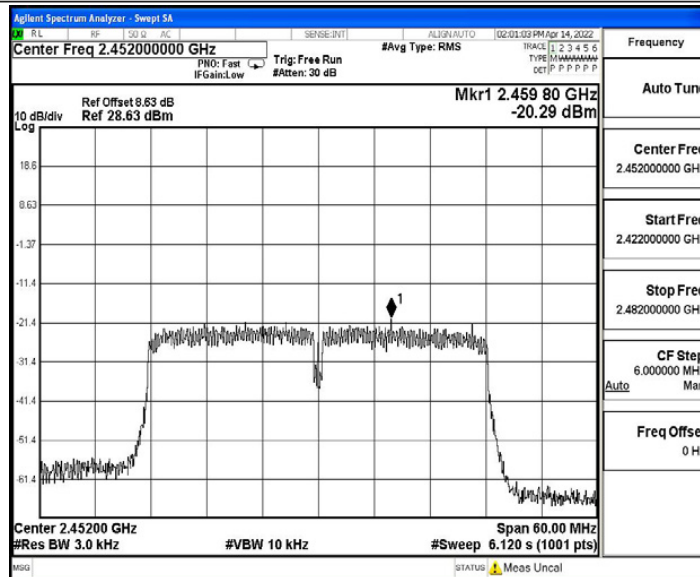
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11N40SISO_Ant1_2452



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C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.23	-35.94	≤ -15.77	PASS
		High	2462	4.92	-48.06	≤ -15.08	PASS
11G	Ant1	Low	2412	-6.13	-44.62	≤ -26.13	PASS
		High	2462	-4.82	-47.53	≤ -24.82	PASS
11N20SISO	Ant1	Low	2412	-6.64	-42.46	≤ -26.64	PASS
		High	2462	-6.28	-48.25	≤ -26.28	PASS
11N40SISO	Ant1	Low	2422	-8.72	-40.23	≤ -28.72	PASS
		High	2452	-7.73	-47.46	≤ -27.73	PASS



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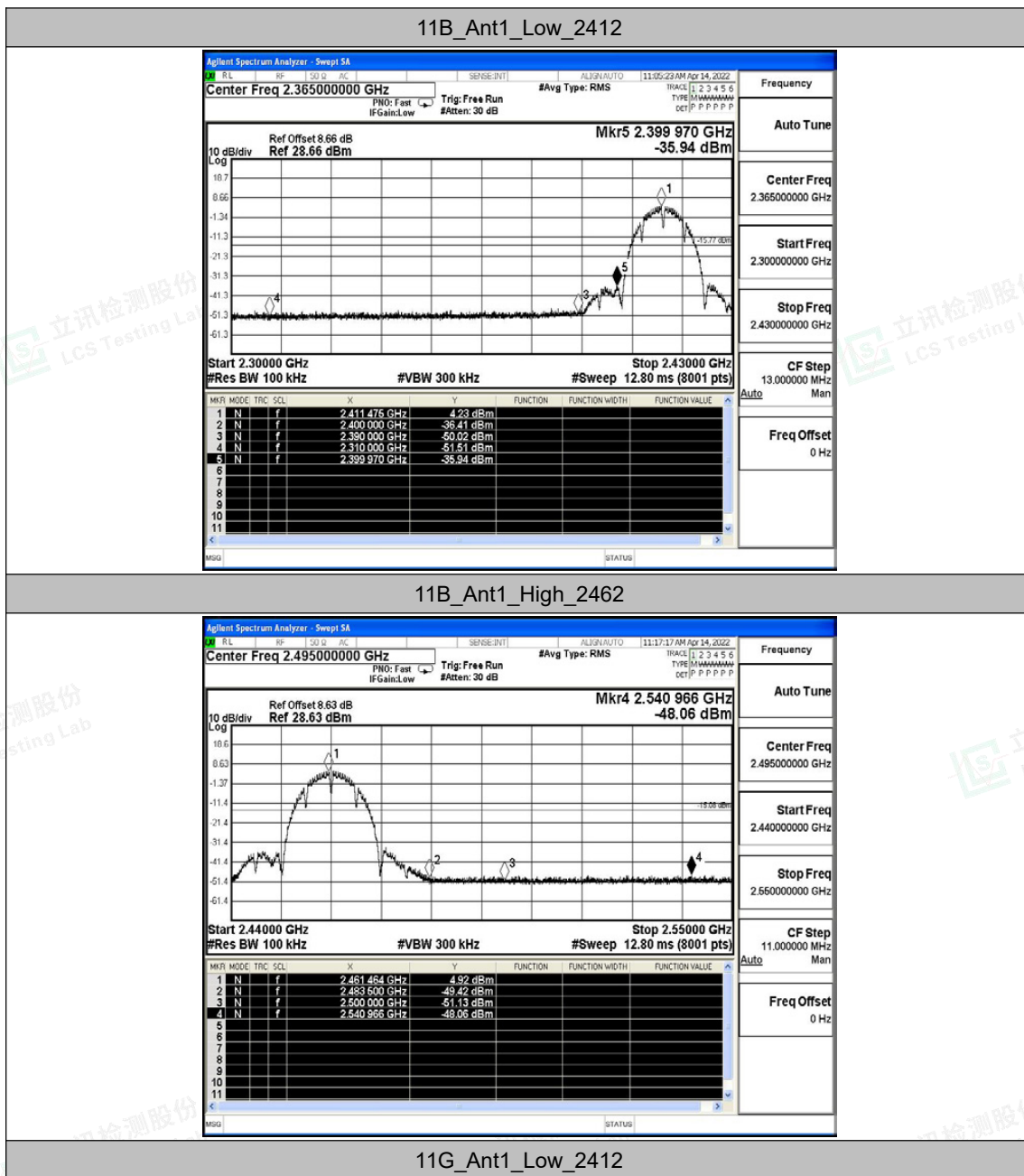
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Test Graphs

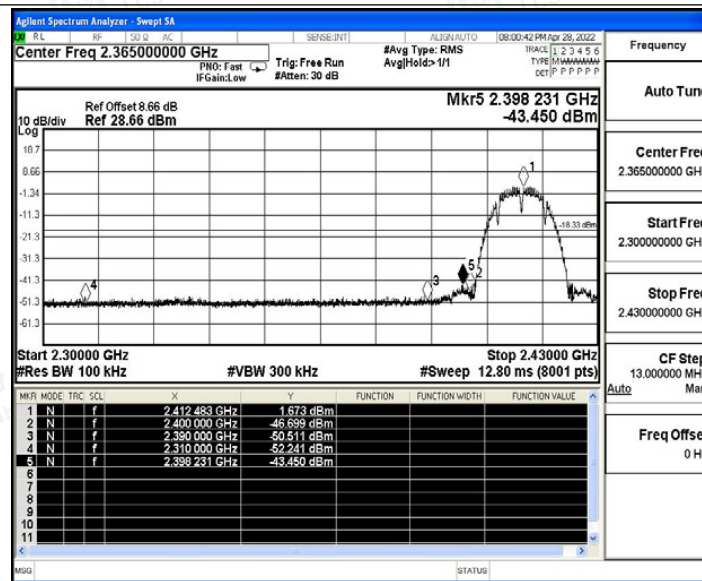


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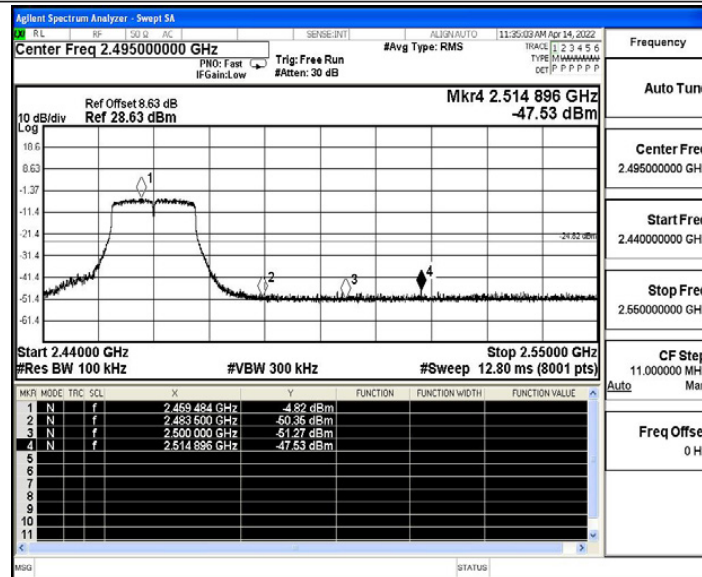
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

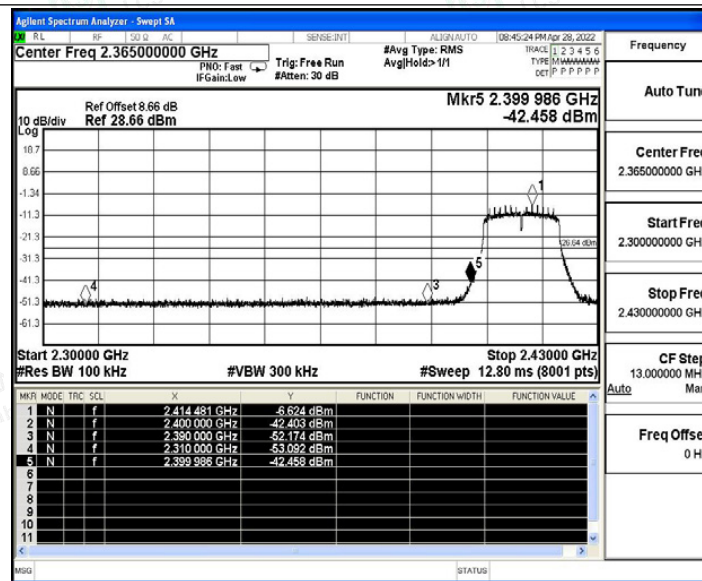


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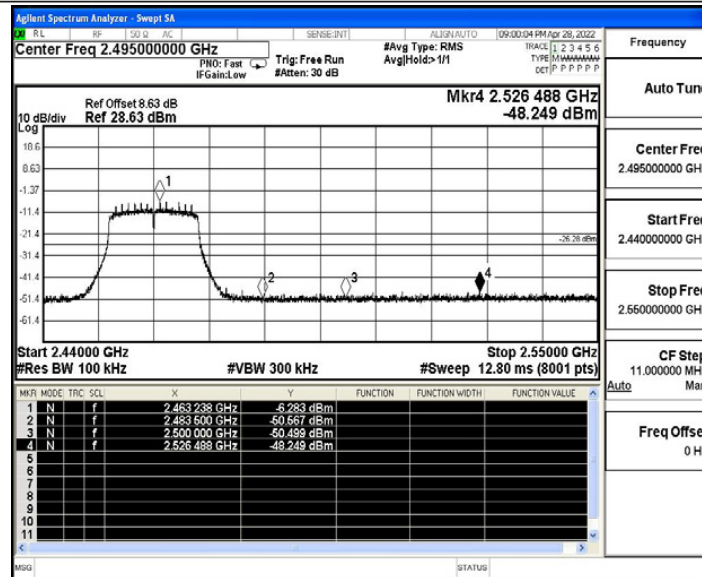
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

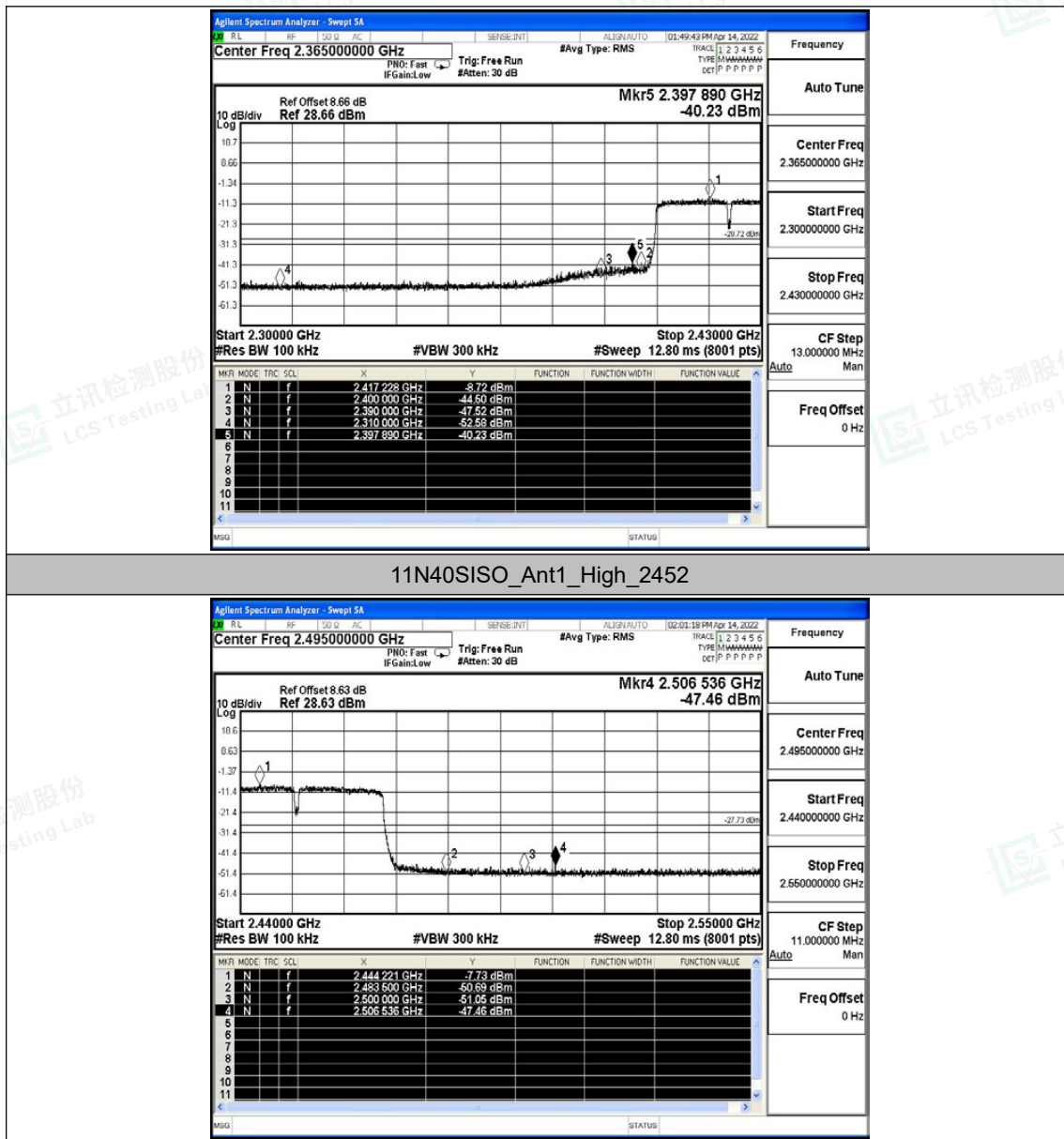


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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-60.66	≤-15.81	PASS
			1000~26500	4.19	-46.02	≤-15.81	PASS
		2437	Reference	4.74	4.74	---	PASS
			30~1000	4.74	-60.82	≤-15.26	PASS
			1000~26500	4.74	-46.36	≤-15.26	PASS
		2462	Reference	5.03	5.03	---	PASS
			30~1000	5.03	-60.15	≤-14.97	PASS
			1000~26500	5.03	-46.28	≤-14.97	PASS
11G	Ant1	2412	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-55.69	≤-23.95	PASS
			1000~26500	-3.95	-45.84	≤-23.95	PASS
		2437	Reference	-4.27	-4.27	---	PASS
			30~1000	-4.27	-58.5	≤-24.27	PASS
			1000~26500	-4.27	-46.07	≤-24.27	PASS
		2462	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-60.6	≤-24.73	PASS
			1000~26500	-4.73	-46.34	≤-24.73	PASS
11N20SISO	Ant1	2412	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-55.63	≤-23.58	PASS
			1000~26500	-3.58	-45.84	≤-23.58	PASS
		2437	Reference	-4.03	-4.03	---	PASS
			30~1000	-4.03	-51.11	≤-24.03	PASS
			1000~26500	-4.03	-45.98	≤-24.03	PASS
		2462	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-60.32	≤-24.43	PASS
			1000~26500	-4.43	-45.48	≤-24.43	PASS
11N40SISO	Ant1	2422	Reference	-8.76	-8.76	---	PASS
			30~1000	-8.76	-1000	≤-28.76	PASS
			1000~26500	-8.76	-46.69	≤-28.76	PASS
		2437	Reference	-8.45	-8.45	---	PASS
			30~1000	-8.45	-60.69	≤-28.45	PASS
			1000~26500	-8.45	-46.1	≤-28.45	PASS
		2452	Reference	-7.80	-7.80	---	PASS
			30~1000	-7.80	-60.21	≤-27.8	PASS



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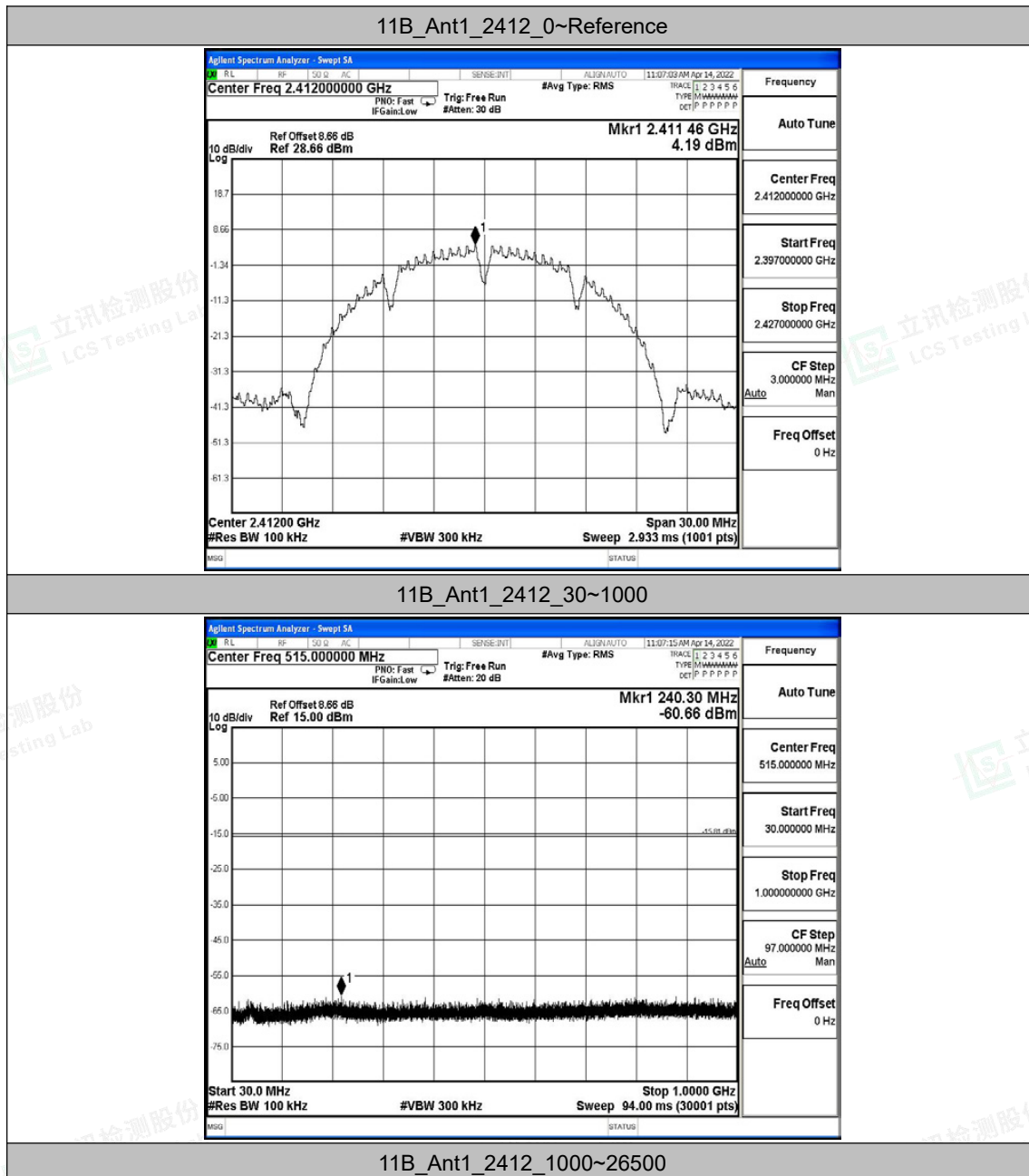


			1000~26500	-7.80	-46.16	≤-27.8	PASS
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Test Graphs

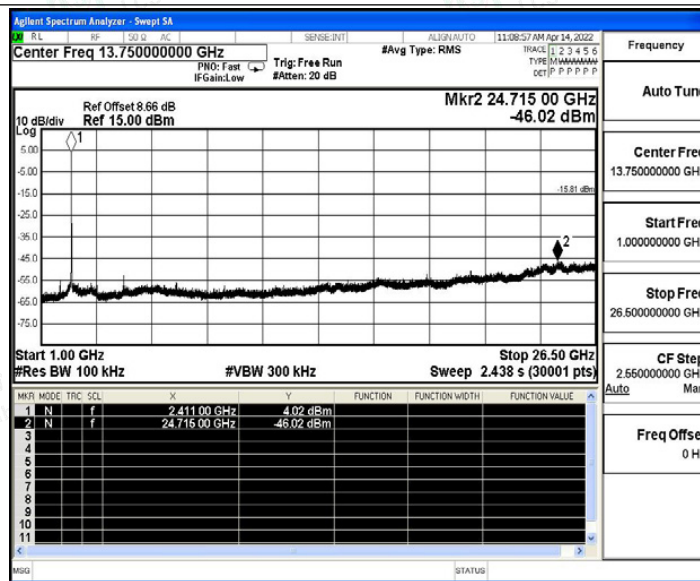


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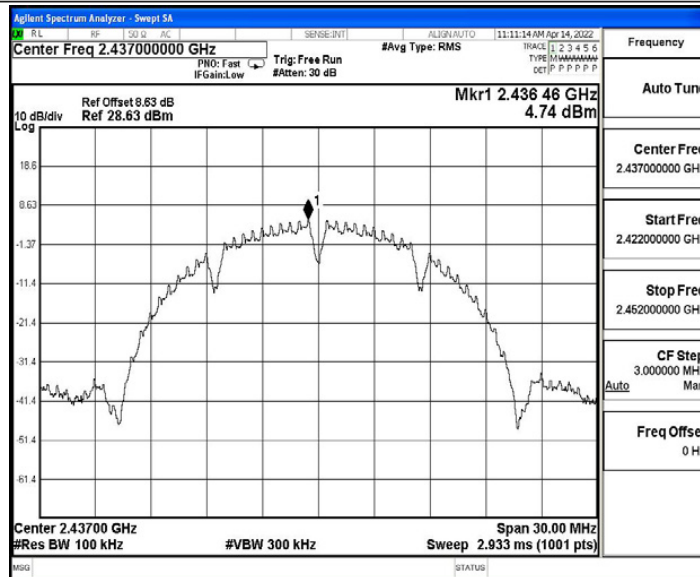
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

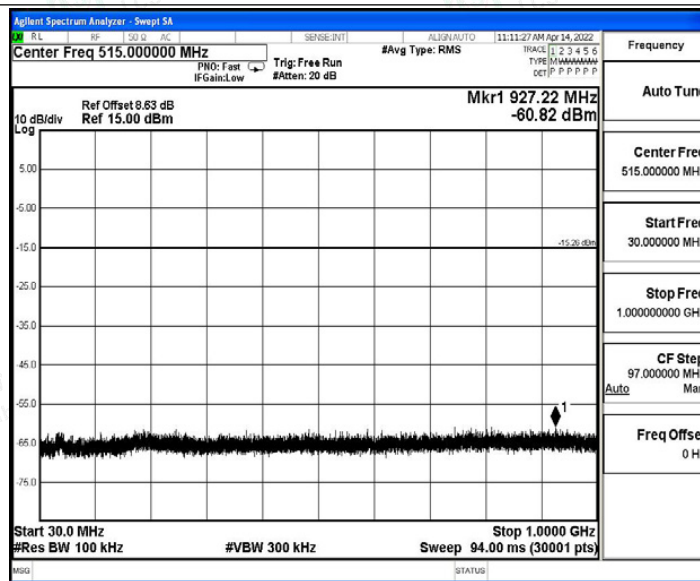


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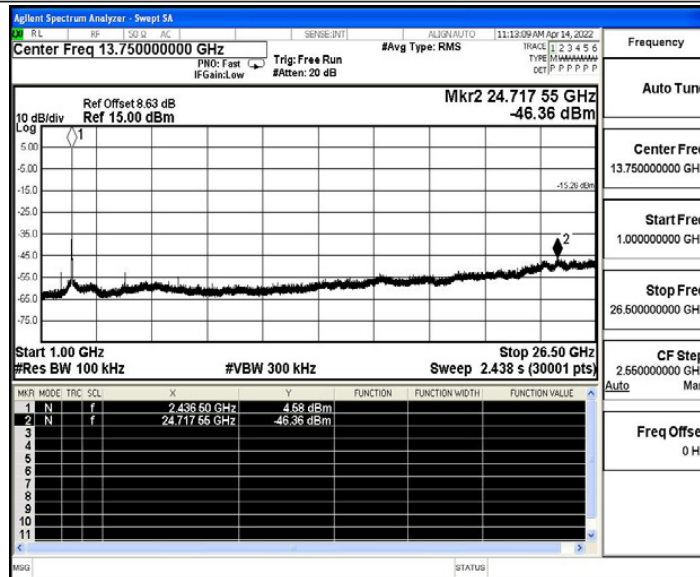
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

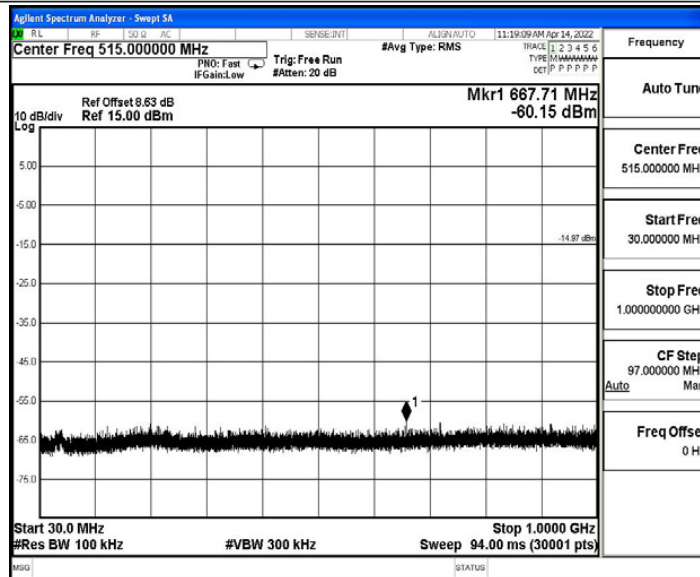
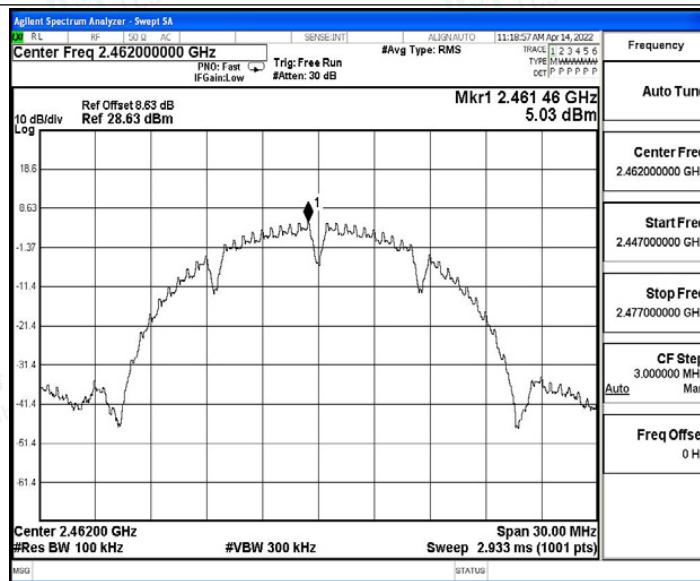


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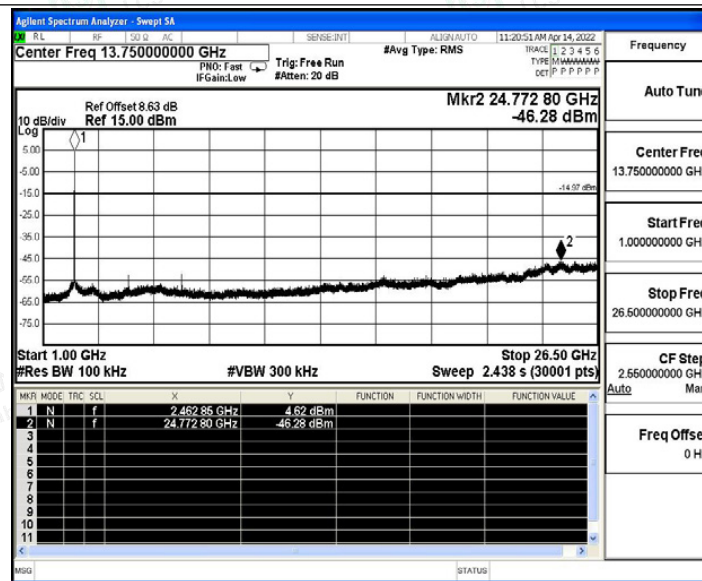


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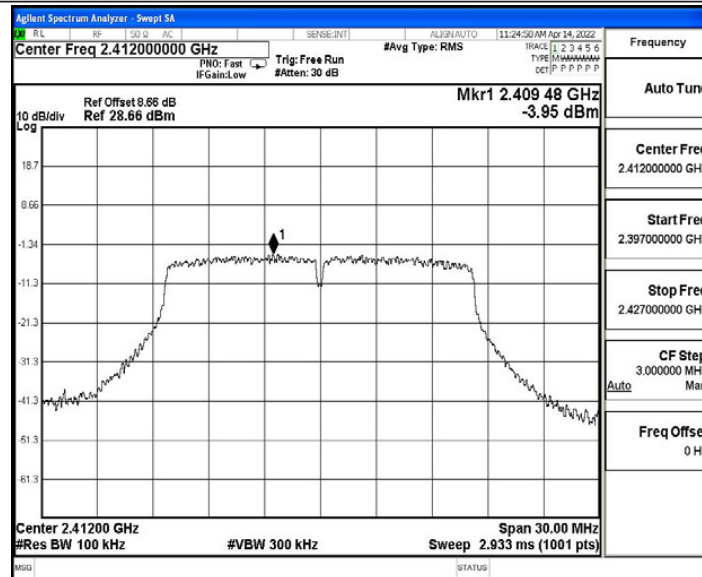
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

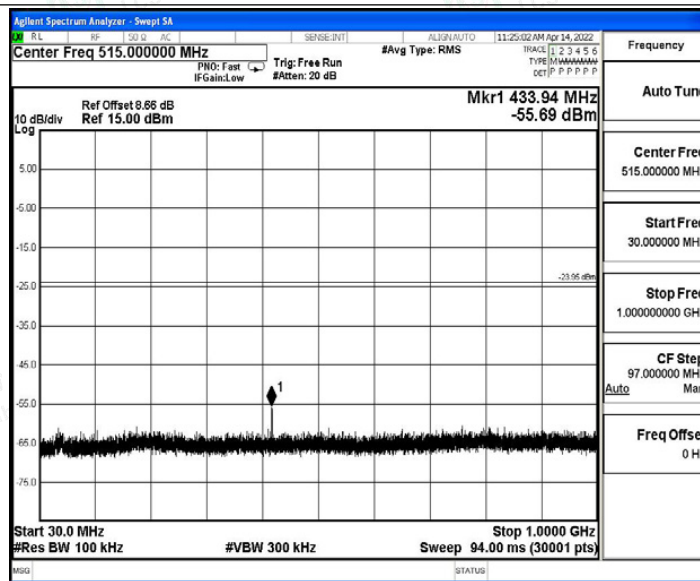


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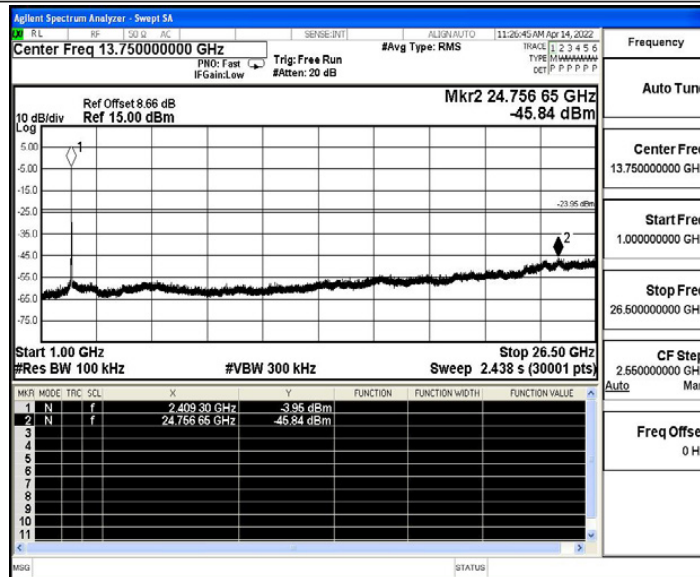
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

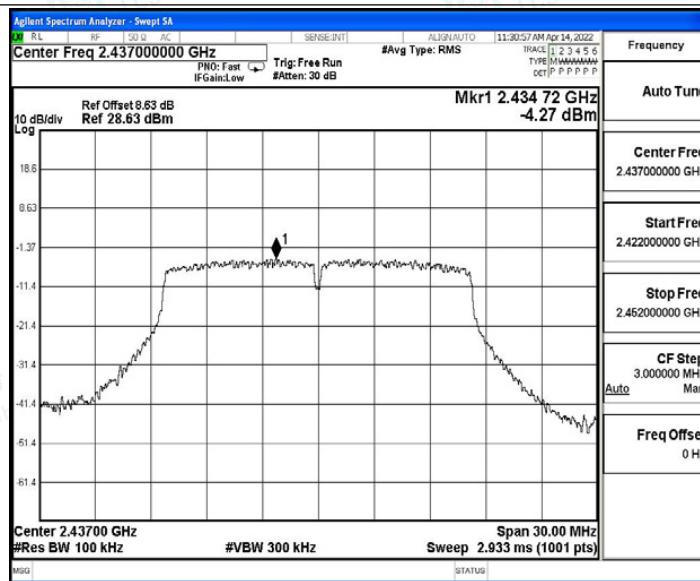


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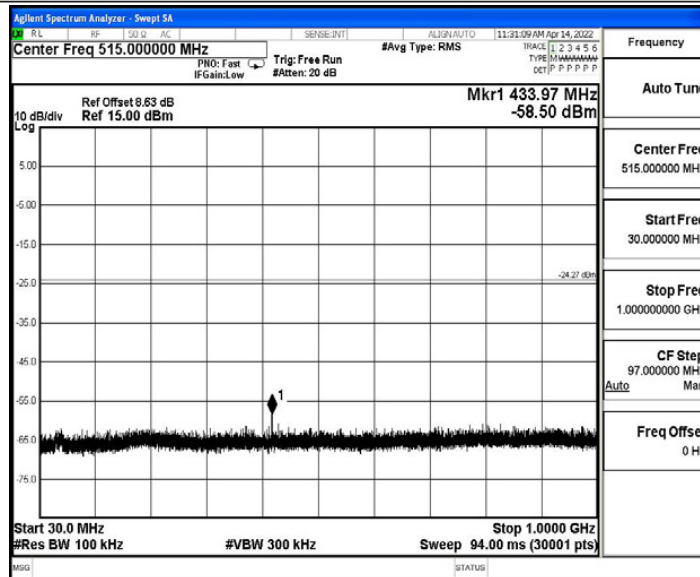
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

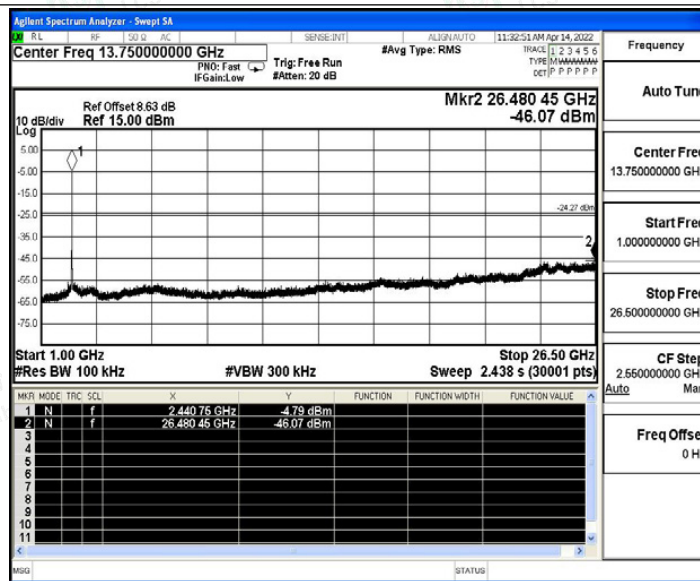


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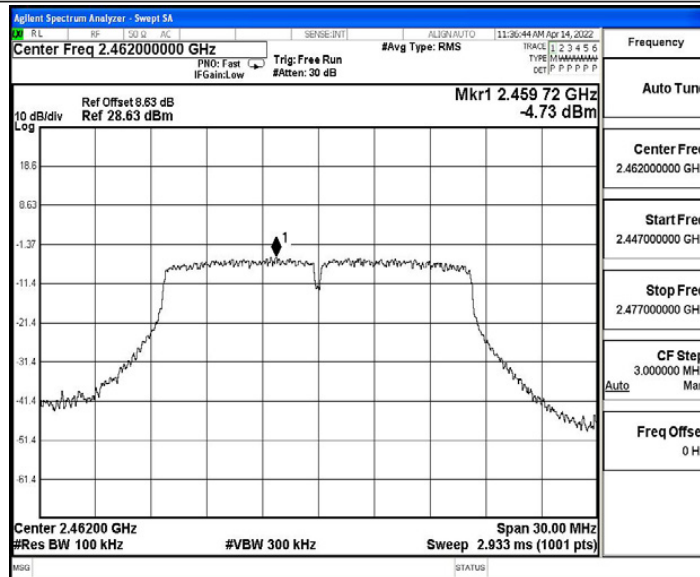
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

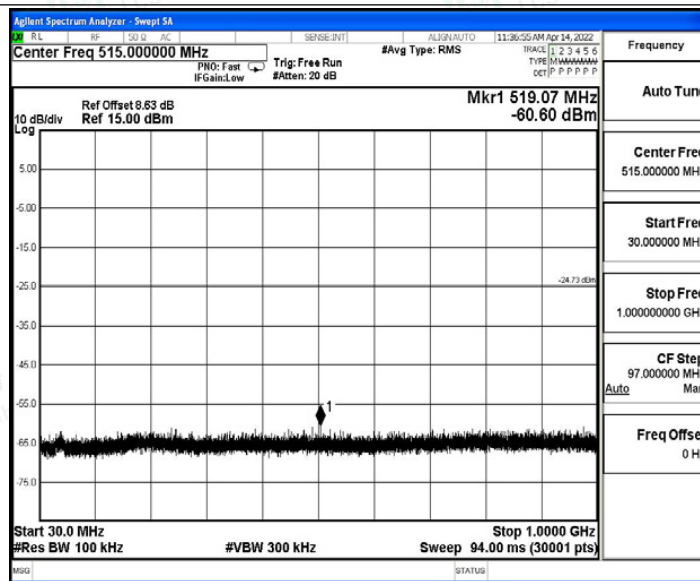


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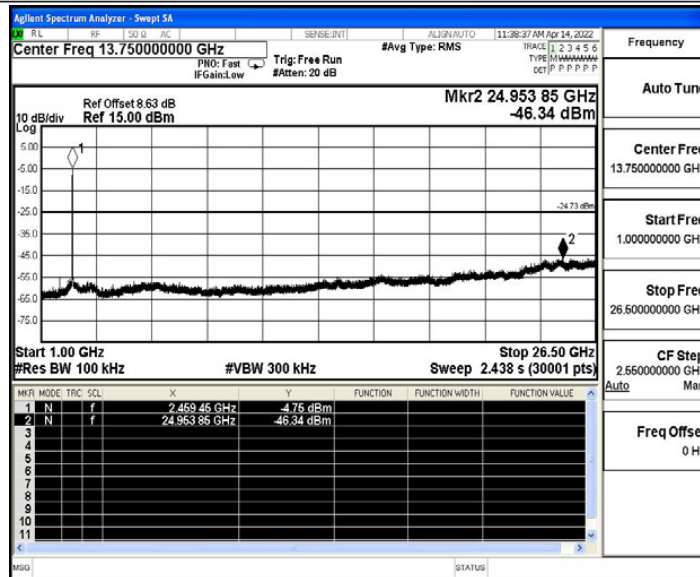
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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



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