

Appendix Test Data

Report No.:	18220WC30052401	Test Sample No.:	1-2-2
Start Test Date:	2023.03.31	Finish Test Date:	2023.04.25
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	26.0C°	Relative Humidity:	45%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2406.960	2416.480	≥0.5	PASS
		2437	9.080	2432.400	2441.480	≥0.5	PASS
		2462	9.560	2457.440	2467.000	≥0.5	PASS
11G	Ant1	2412	15.800	2404.040	2419.840	≥0.5	PASS
		2437	14.000	2430.080	2444.080	≥0.5	PASS
		2462	16.240	2453.840	2470.080	≥0.5	PASS
11N20SISO	Ant1	2412	16.120	2404.000	2420.120	≥0.5	PASS
		2437	15.440	2429.040	2444.480	≥0.5	PASS
		2462	12.520	2455.840	2468.360	≥0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.265	2405.3877	2418.6527	---	---
		2437	13.604	2430.2046	2443.8086	---	---
		2462	13.609	2455.1863	2468.7953	---	---
11G	Ant1	2412	16.434	2403.7746	2420.2086	---	---
		2437	16.492	2428.7422	2445.2342	---	---
		2462	16.535	2453.7166	2470.2516	---	---
11N20SISO	Ant1	2412	17.287	2403.3760	2420.6630	---	---
		2437	17.366	2428.3005	2445.6665	---	---
		2462	17.344	2453.2858	2470.6298	---	---



Test Graphs



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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	23.23	≤30.00
		2437	23.74	≤30.00
		2462	23.57	≤30.00
11G	Ant1	2412	23.52	≤30.00
		2437	23.65	≤30.00
		2462	23.72	≤30.00
11N20SISO	Ant1	2412	23.35	≤30.00
		2437	23.50	≤30.00
		2462	23.33	≤30.00



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-0.16	≤8.00	PASS
		2437	0.36	≤8.00	PASS
		2462	0.02	≤8.00	PASS
11G	Ant1	2412	-7.41	≤8.00	PASS
		2437	-6.98	≤8.00	PASS
		2462	-7.42	≤8.00	PASS
11N20SISO	Ant1	2412	-8.2	≤8.00	PASS
		2437	-5.57	≤8.00	PASS
		2462	-7.19	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

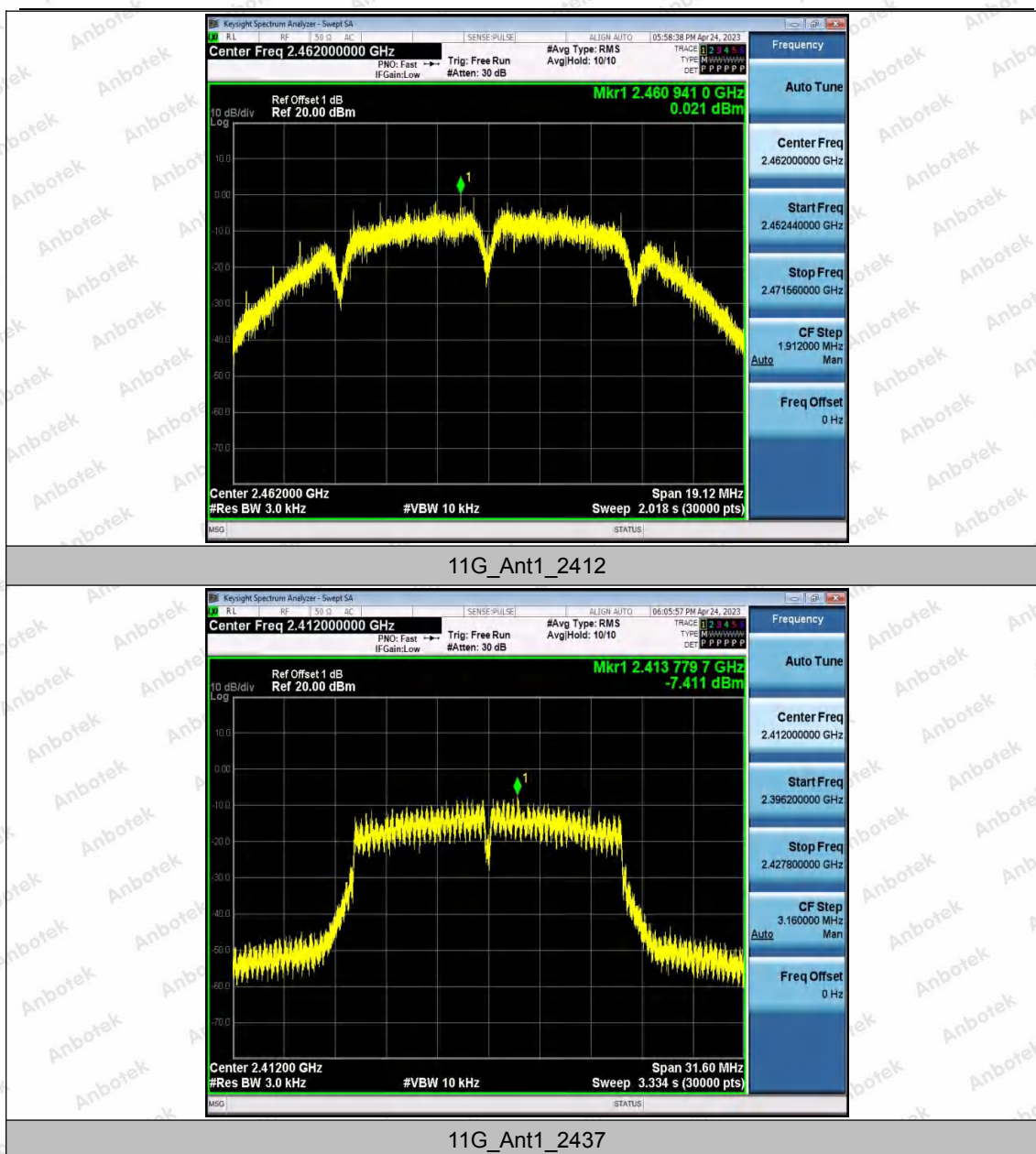
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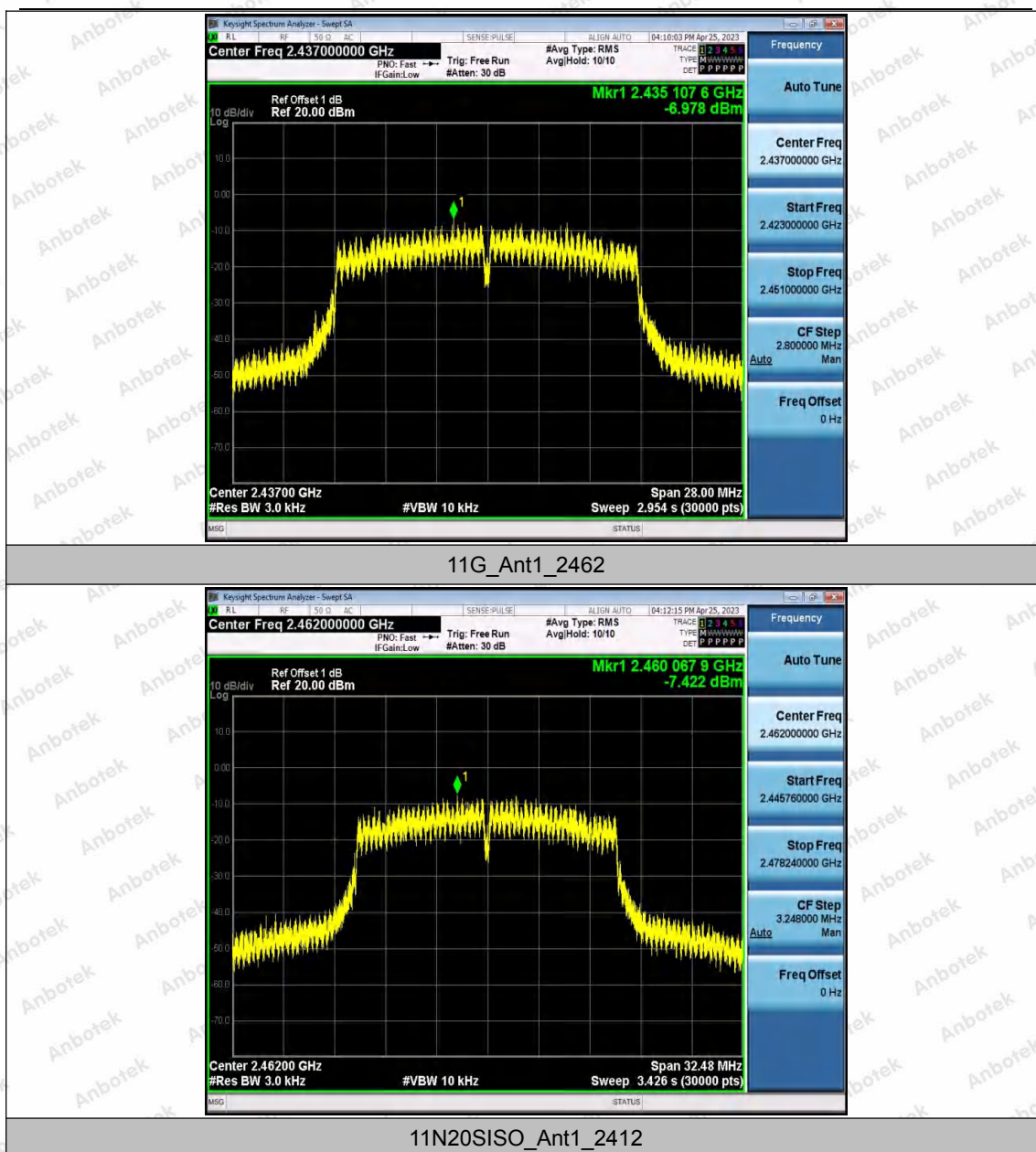
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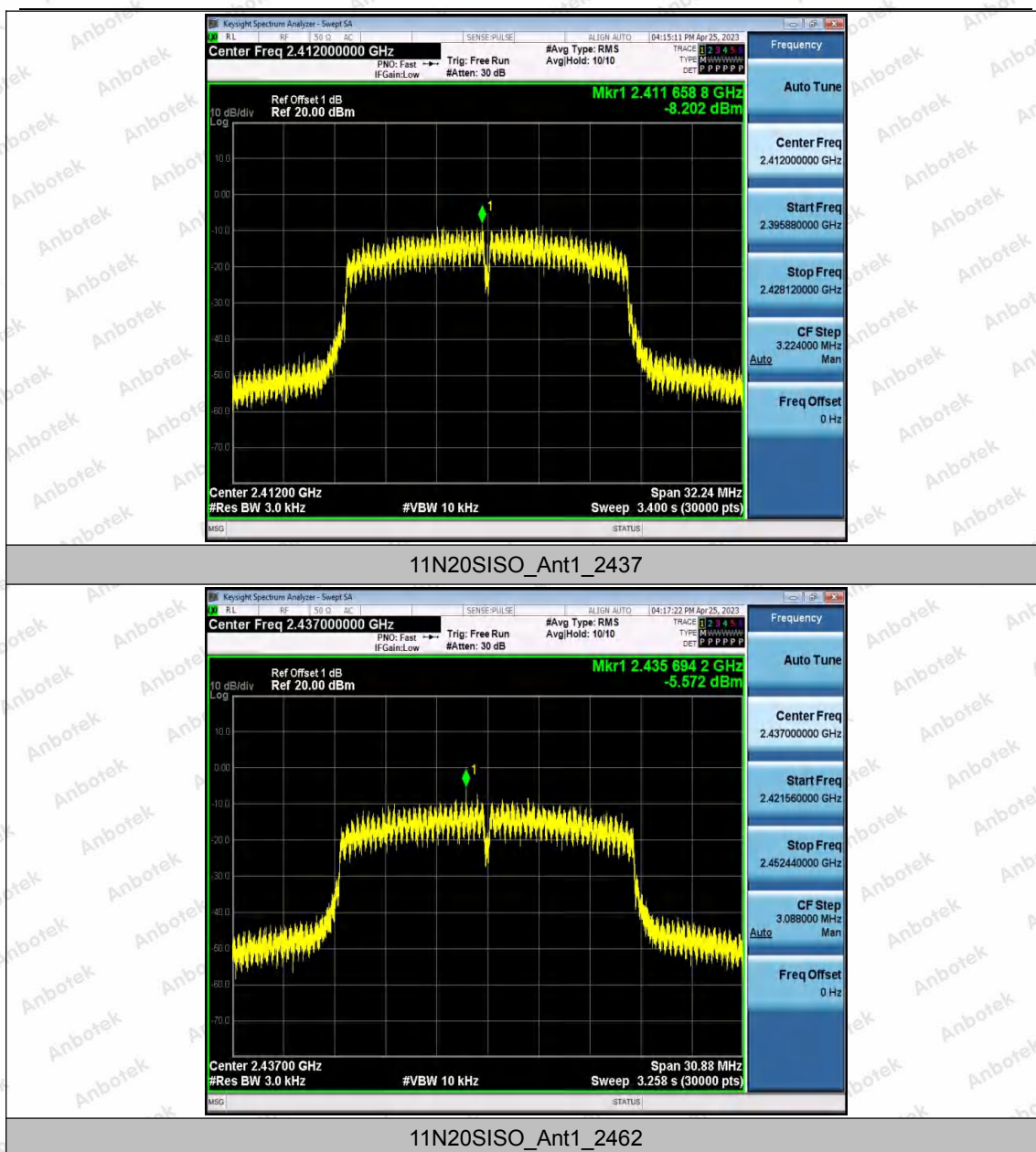
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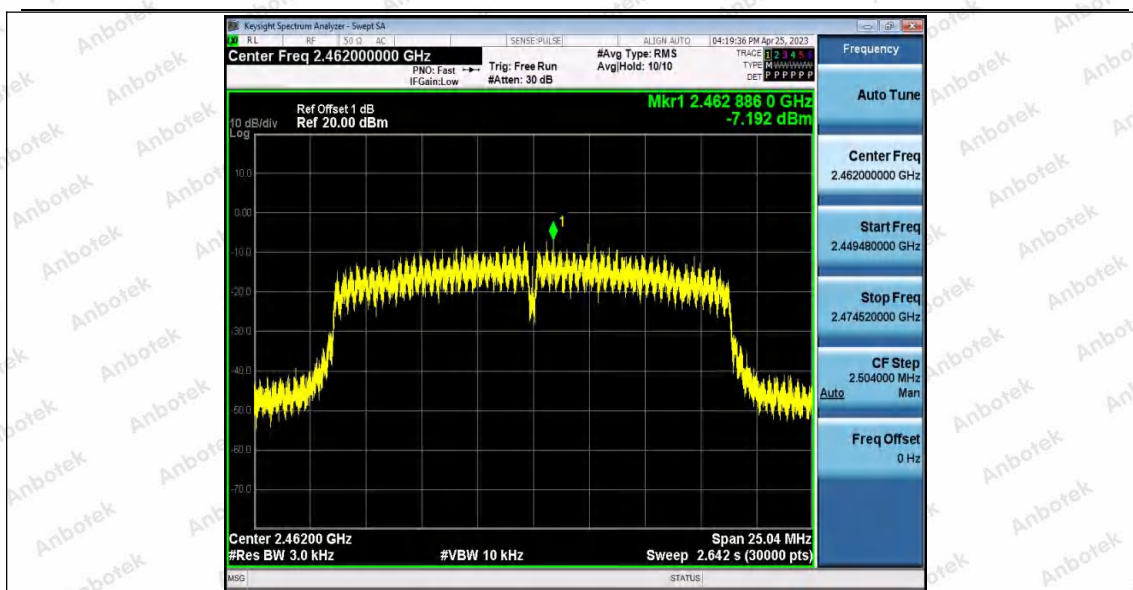
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	11.25	-30.77	≤-8.75	PASS
		High	2462	10.53	-38.04	≤-9.47	PASS
11G	Ant1	Low	2412	3.25	-28.04	≤-16.75	PASS
		High	2462	6.02	-40.94	≤-13.98	PASS
11N20SISO	Ant1	Low	2412	3.26	-29.64	≤-16.74	PASS
		High	2462	4.58	-41.69	≤-15.42	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	11.16	11.16	---	PASS
			30~1000	11.16	-68.3	≤-8.84	PASS
			1000~26500	11.16	-53.15	≤-8.84	PASS
		2437	Reference	10.77	10.77	---	PASS
			30~1000	10.77	-68.46	≤-9.23	PASS
			1000~26500	10.77	-53.19	≤-9.23	PASS
		2462	Reference	10.82	10.82	---	PASS
			30~1000	10.82	-67.9	≤-9.18	PASS
			1000~26500	10.82	-52.93	≤-9.18	PASS
11G	Ant1	2412	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-68.79	≤-17.16	PASS
			1000~26500	2.84	-53.08	≤-17.16	PASS
		2437	Reference	2.73	2.73	---	PASS
			30~1000	2.73	-68.28	≤-17.27	PASS
			1000~26500	2.73	-53.31	≤-17.27	PASS
		2462	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-68.14	≤-16.95	PASS
			1000~26500	3.05	-53.05	≤-16.95	PASS
11N20SISO	Ant1	2412	Reference	2.53	2.53	---	PASS
			30~1000	2.53	-69.03	≤-17.47	PASS
			1000~26500	2.53	-53.33	≤-17.47	PASS
		2437	Reference	2.40	2.40	---	PASS
			30~1000	2.40	-68.7	≤-17.6	PASS
			1000~26500	2.40	-53.49	≤-17.6	PASS
		2462	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-68.59	≤-17.35	PASS
			1000~26500	2.65	-53.24	≤-17.35	PASS

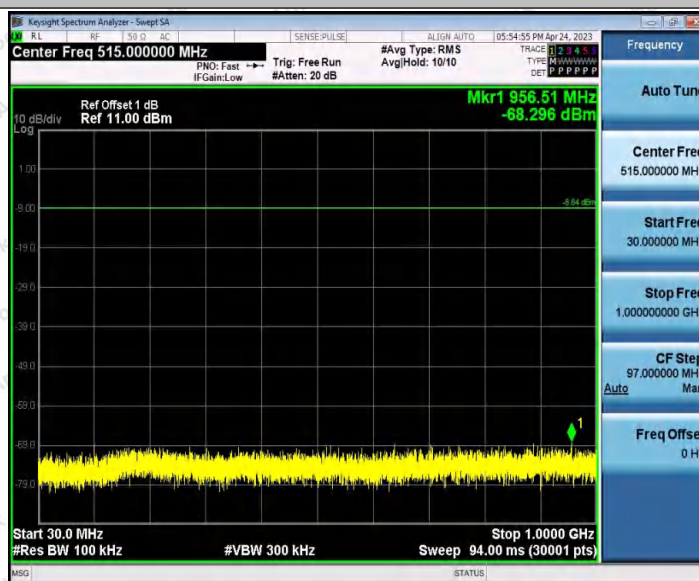


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

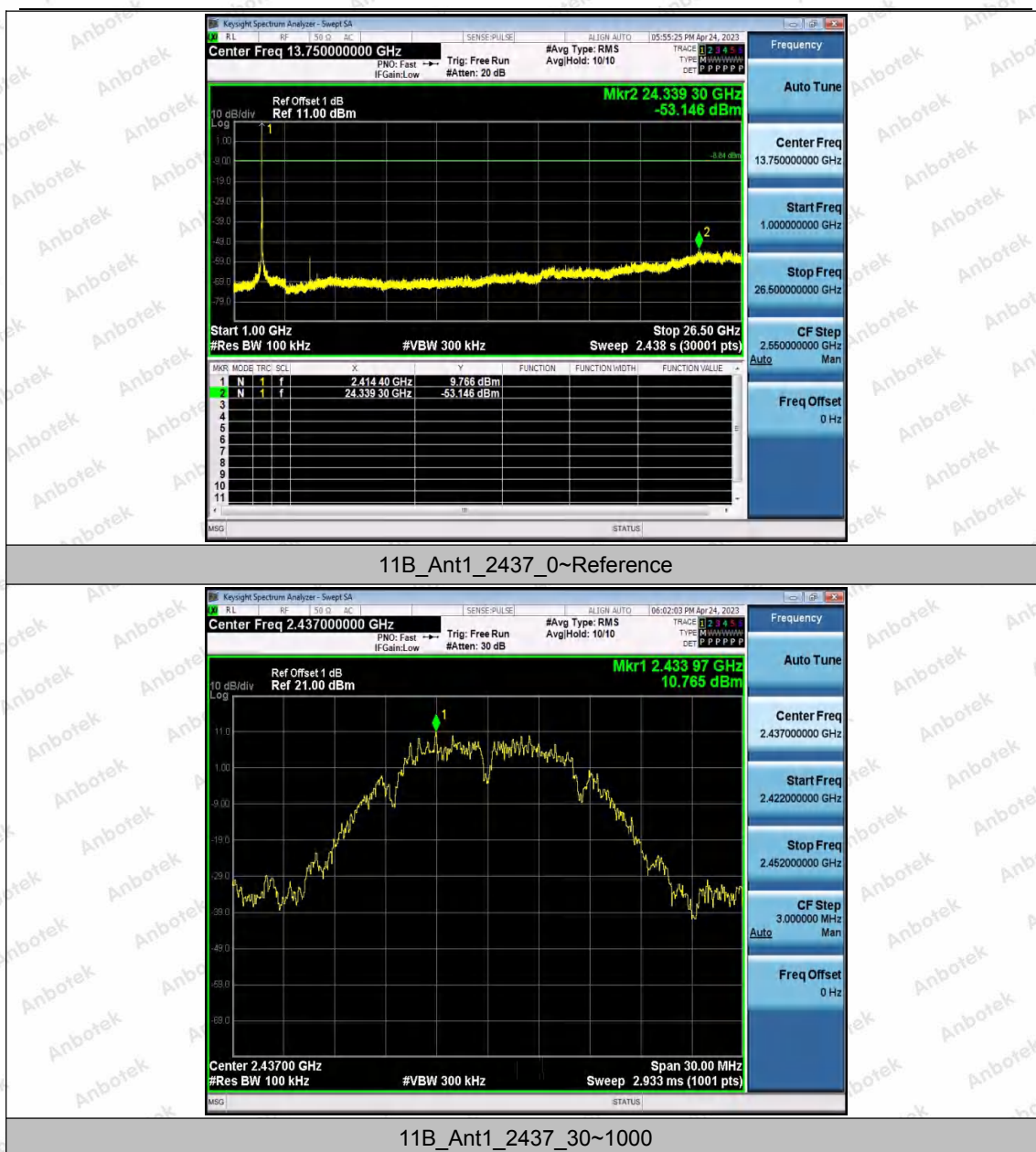
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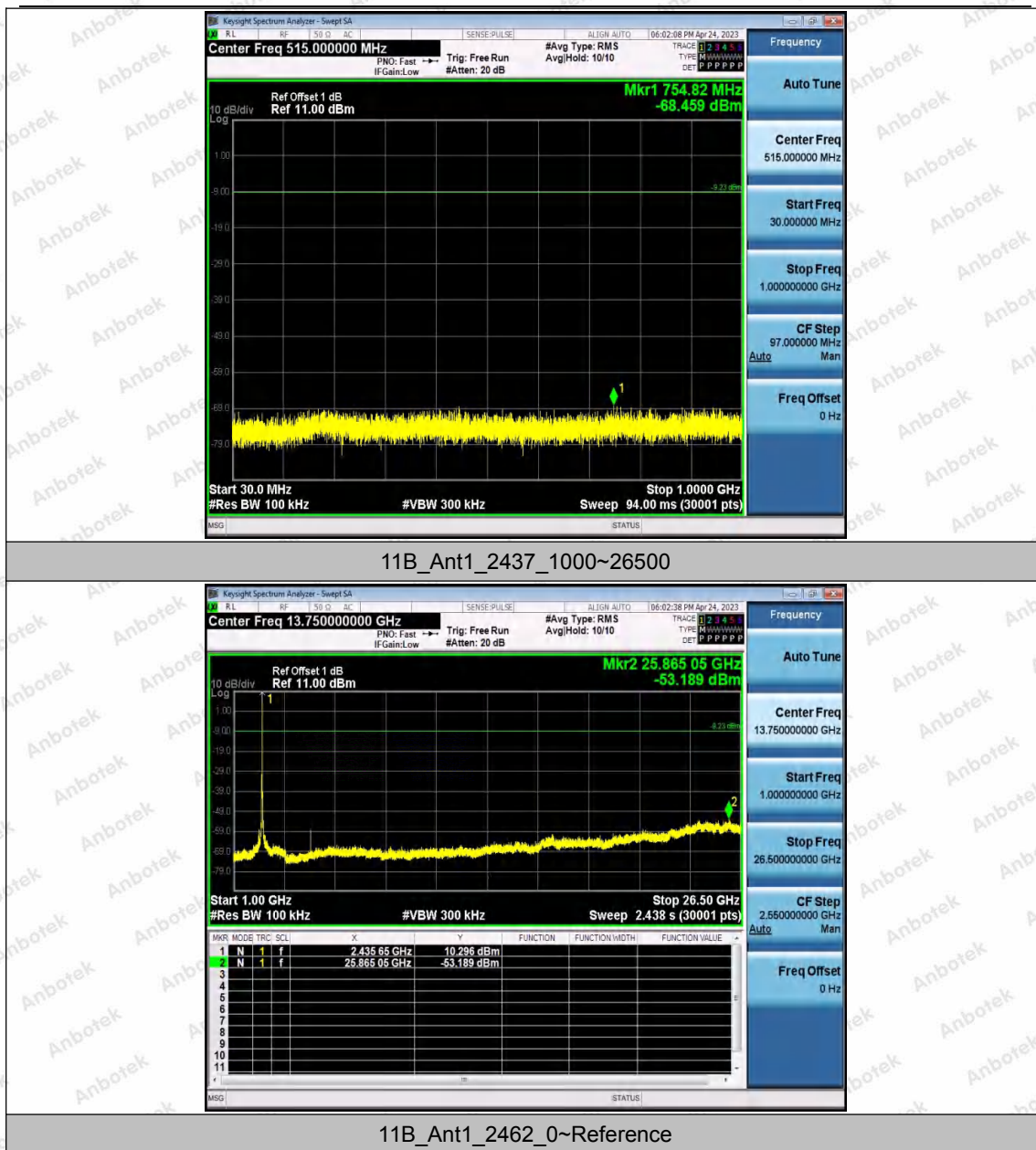
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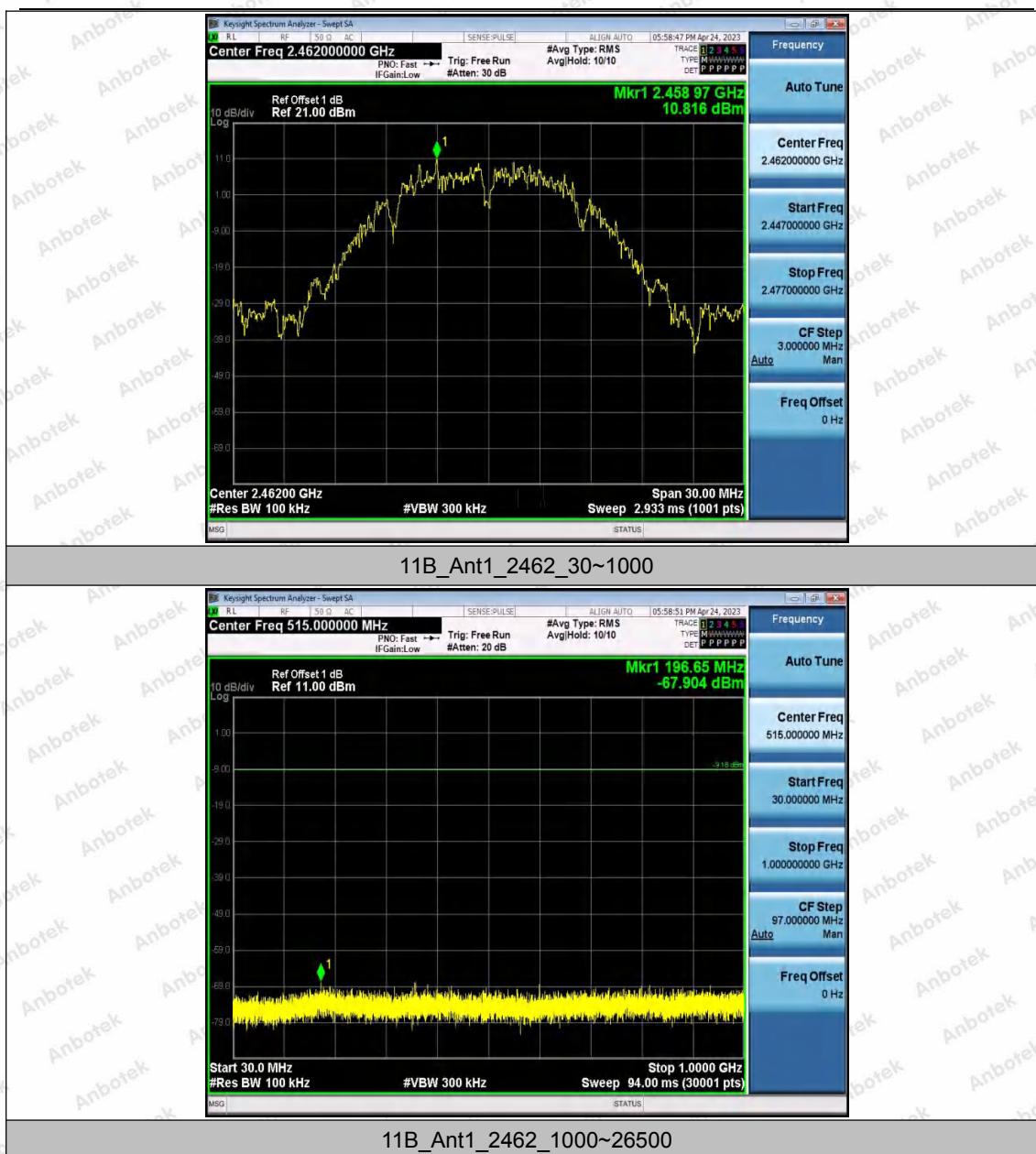
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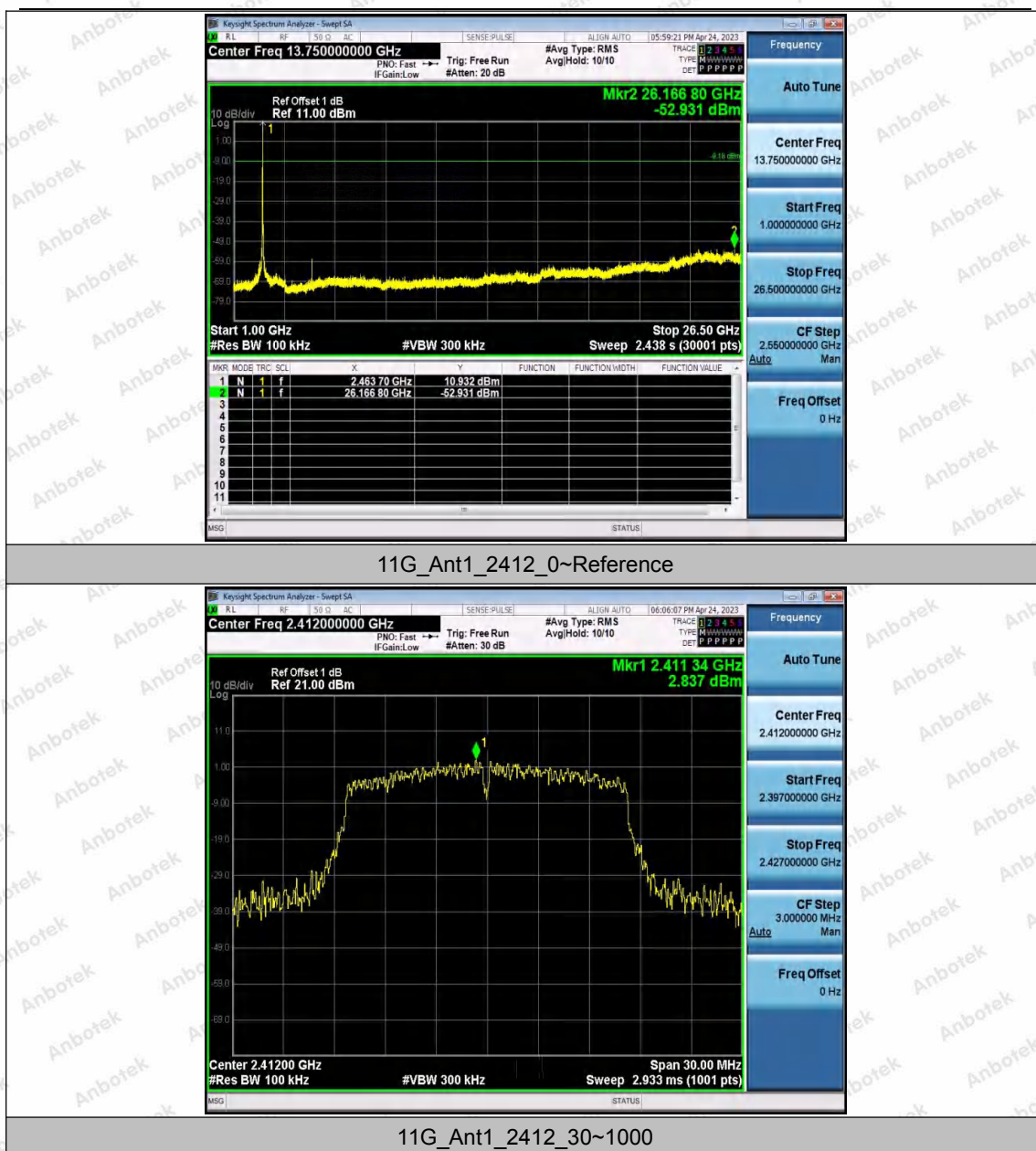
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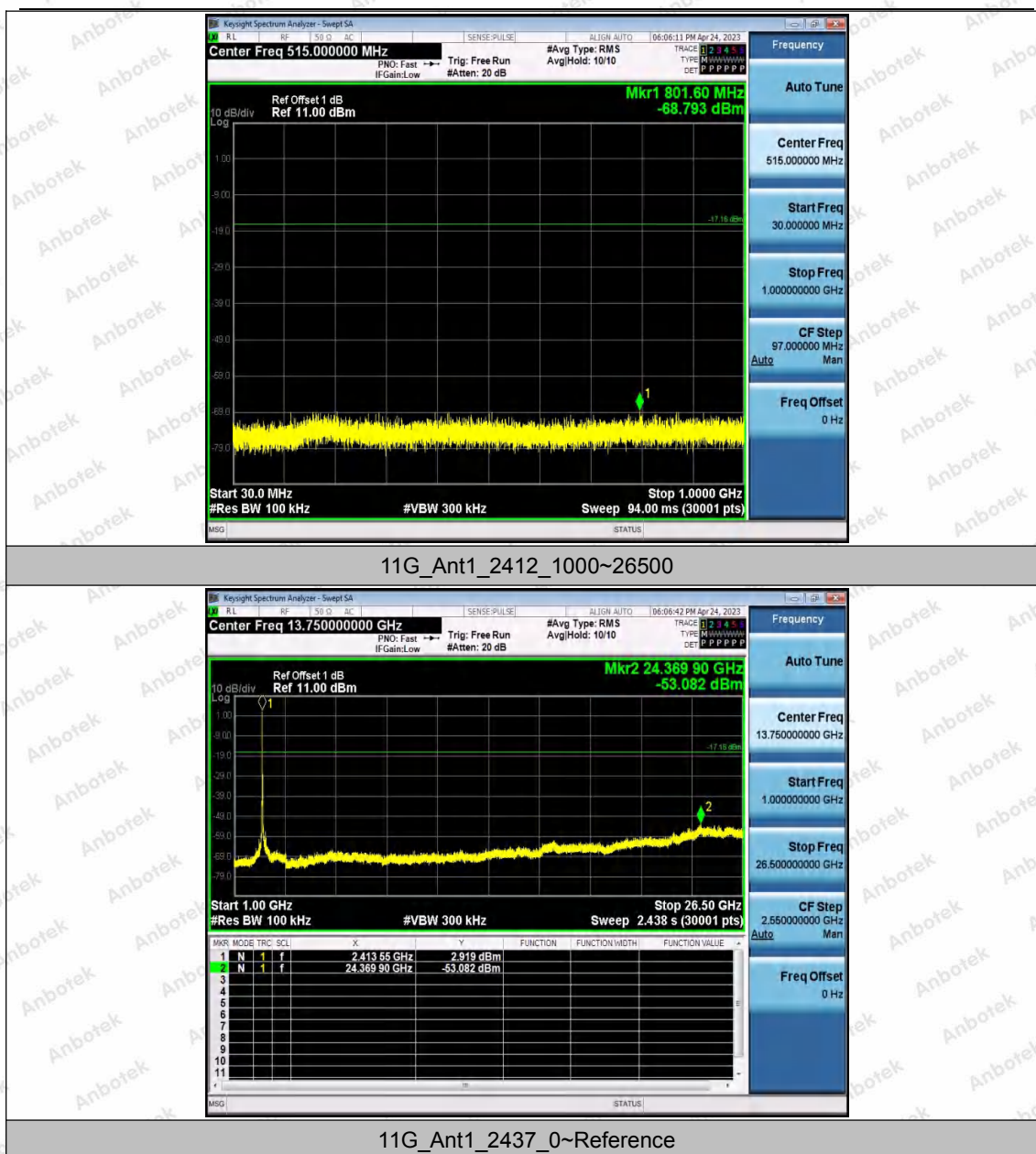
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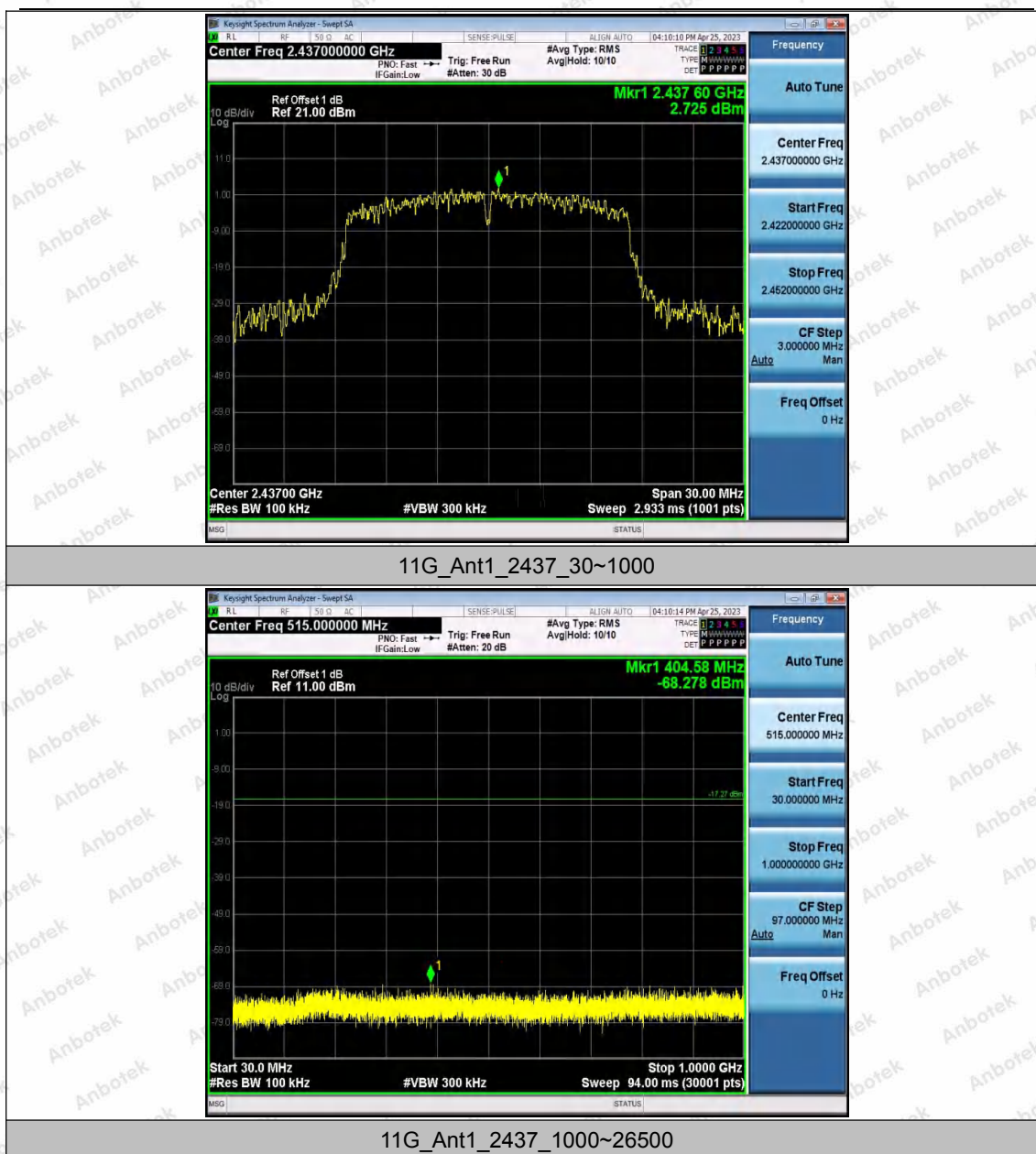
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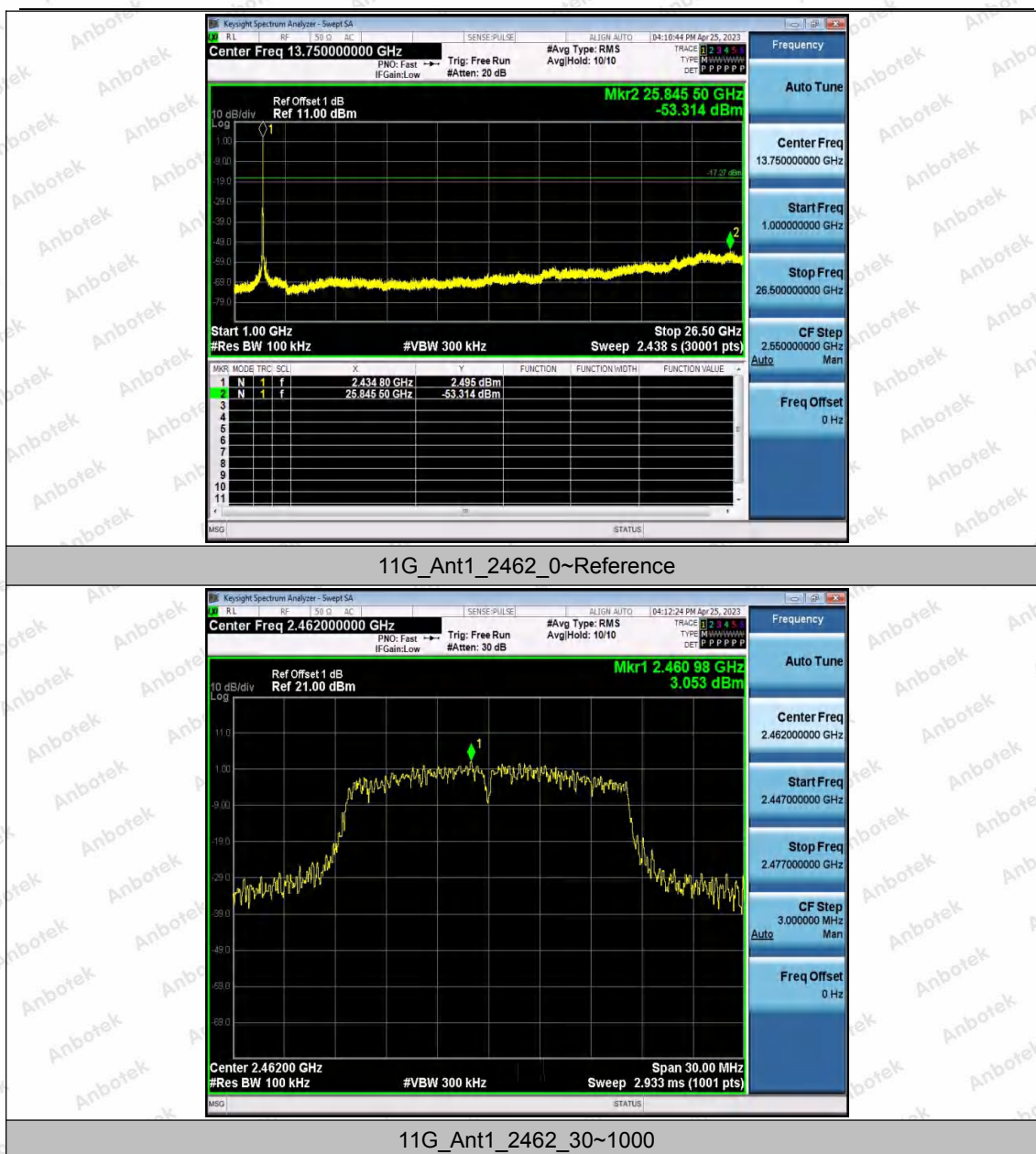
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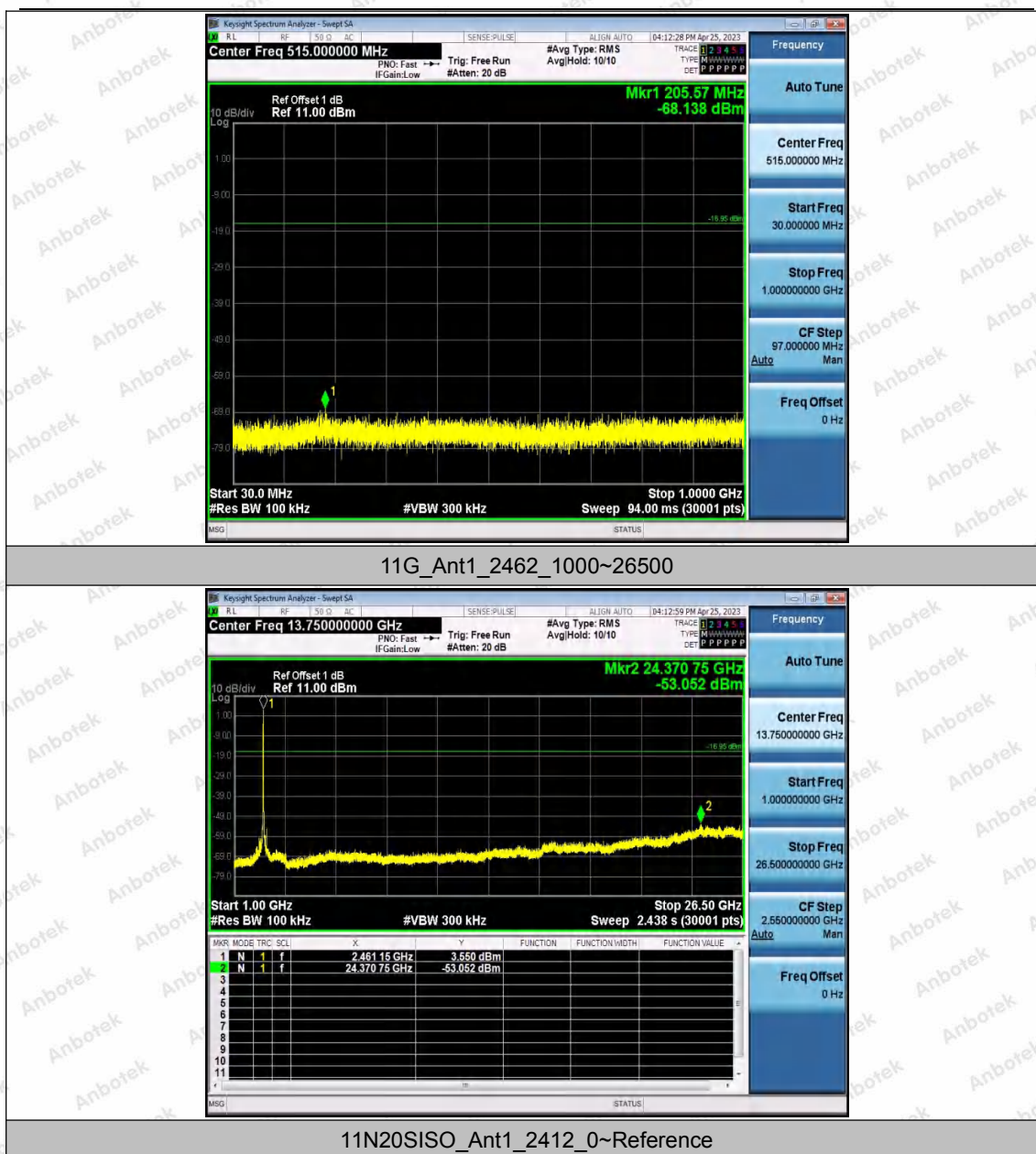
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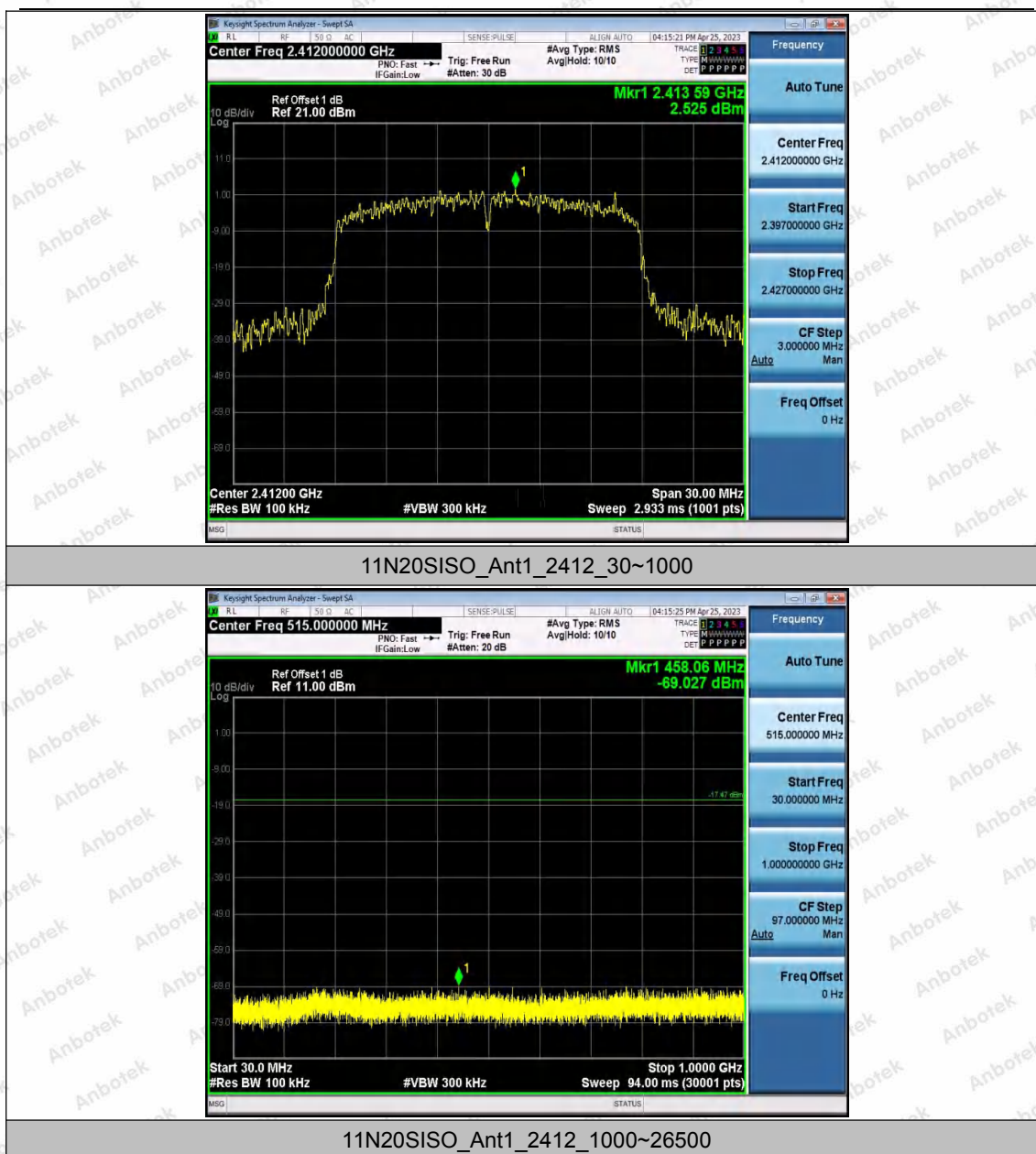
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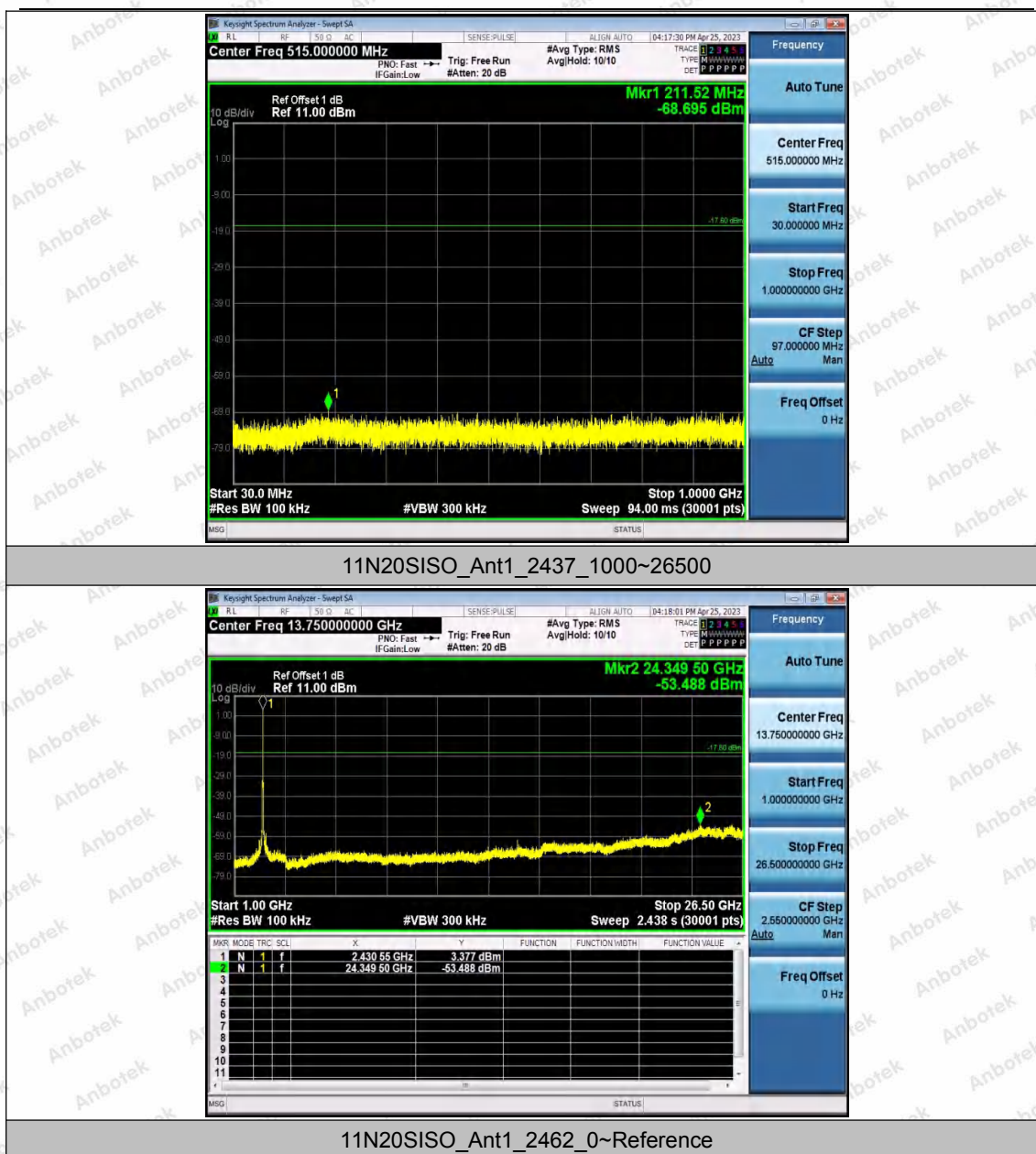
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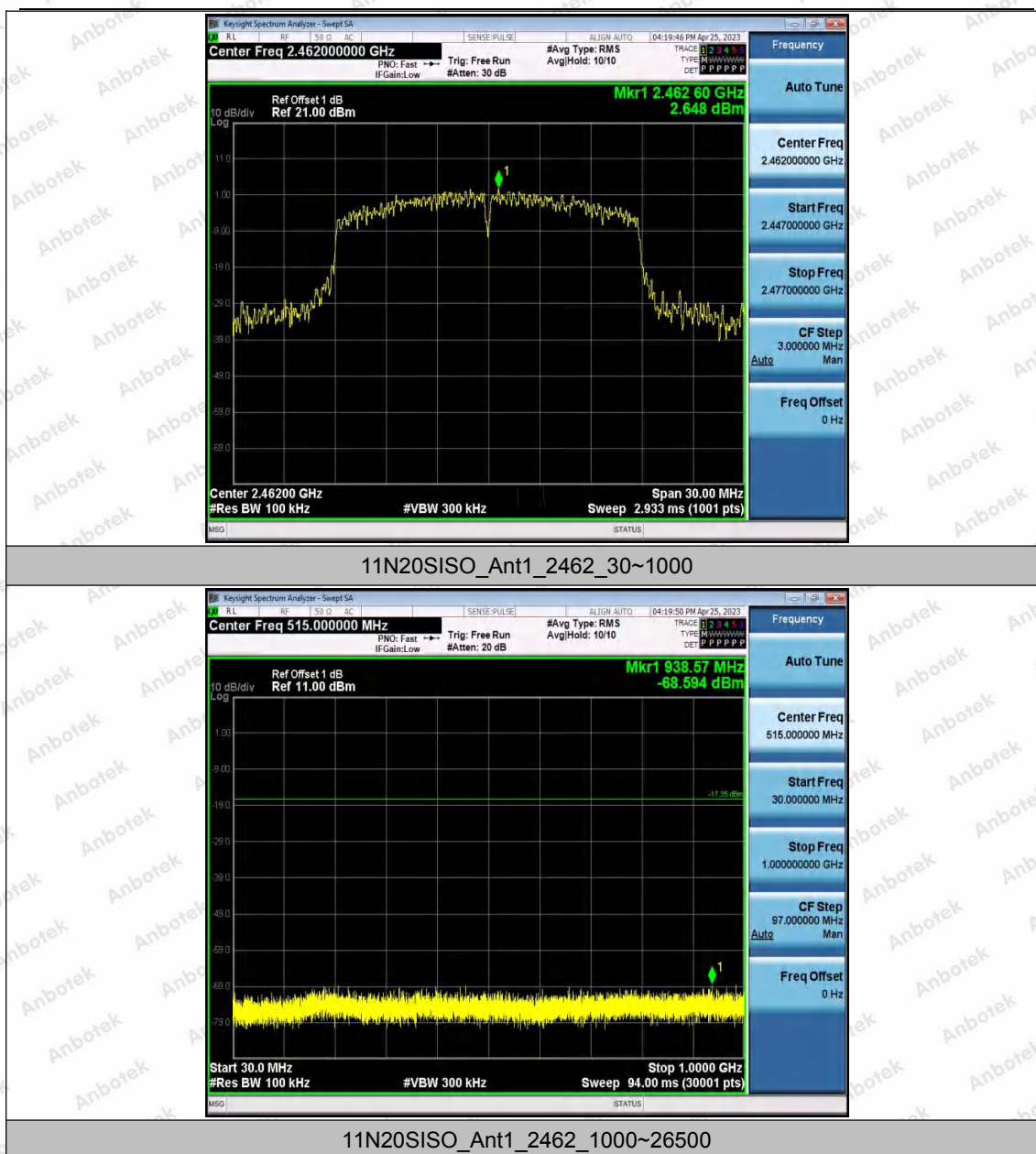
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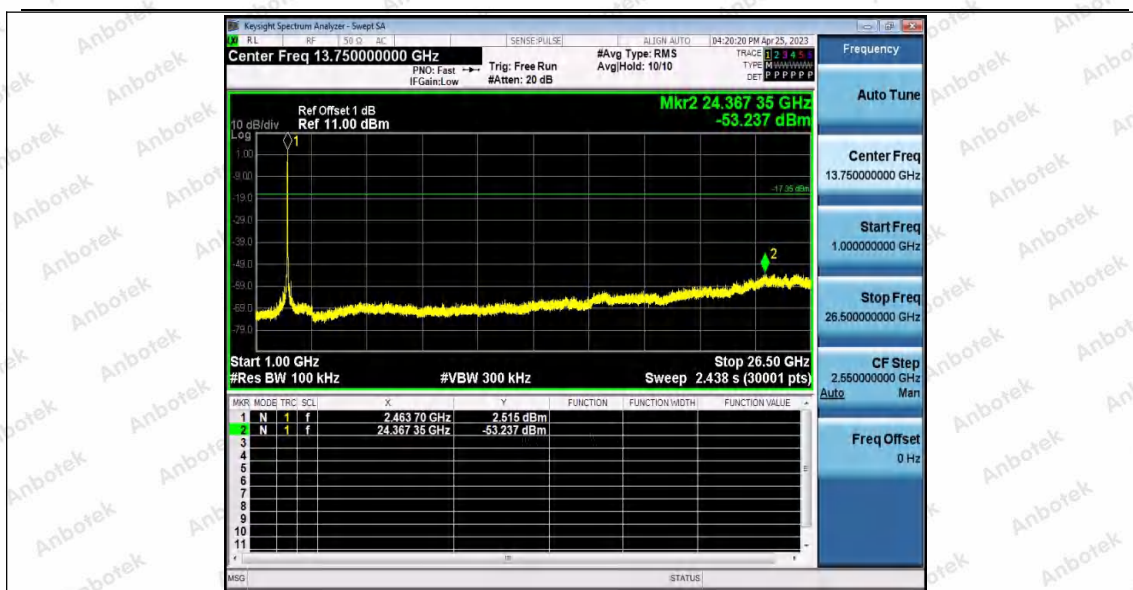
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.21	9.39	87.43	0.58
		2437	8.21	9.40	87.34	0.59
		2462	8.22	9.40	87.45	0.58
11G	Ant1	2412	12.03	12.04	99.92	0.00
		2437	12.03	12.04	99.92	0.00
		2462	12.03	12.04	99.92	0.00
11N20SISO	Ant1	2412	11.13	11.13	100.00	0.00
		2437	11.13	11.13	100.00	0.00
		2462	11.12	11.13	99.91	0.00

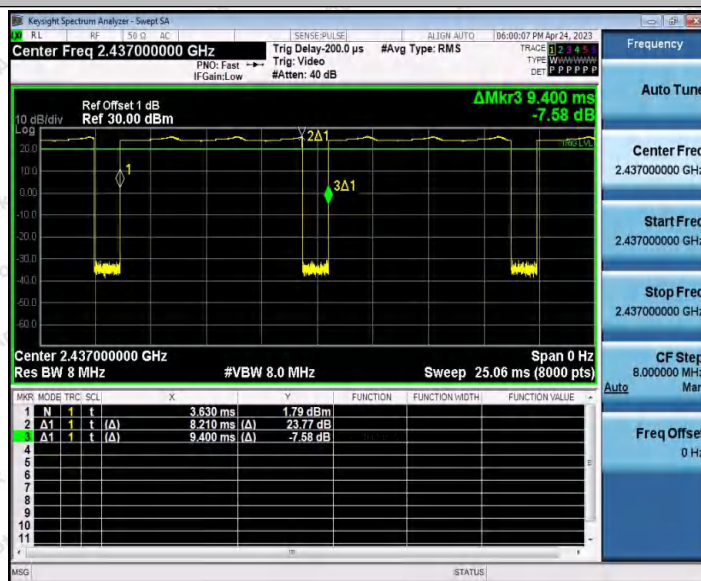


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

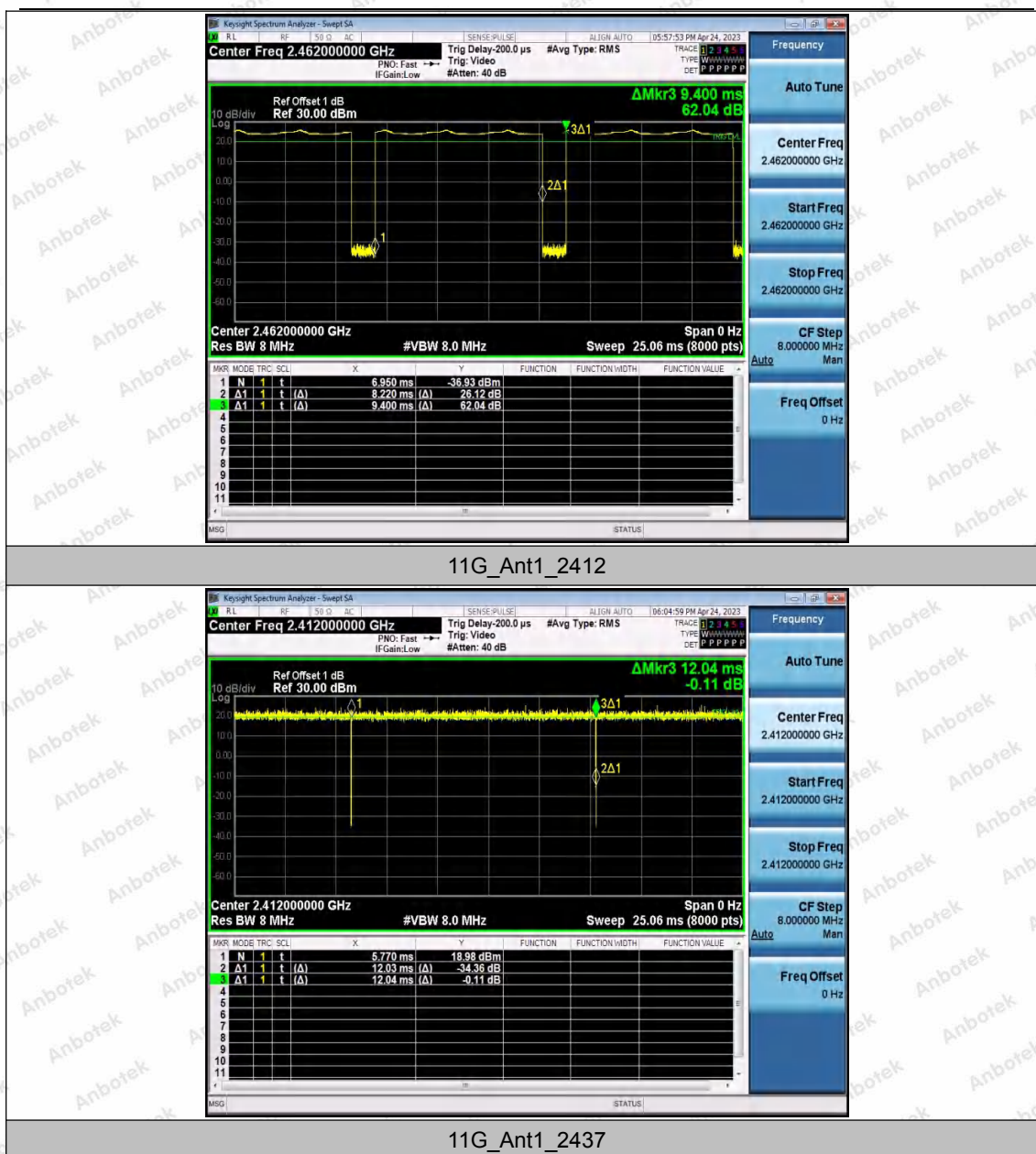
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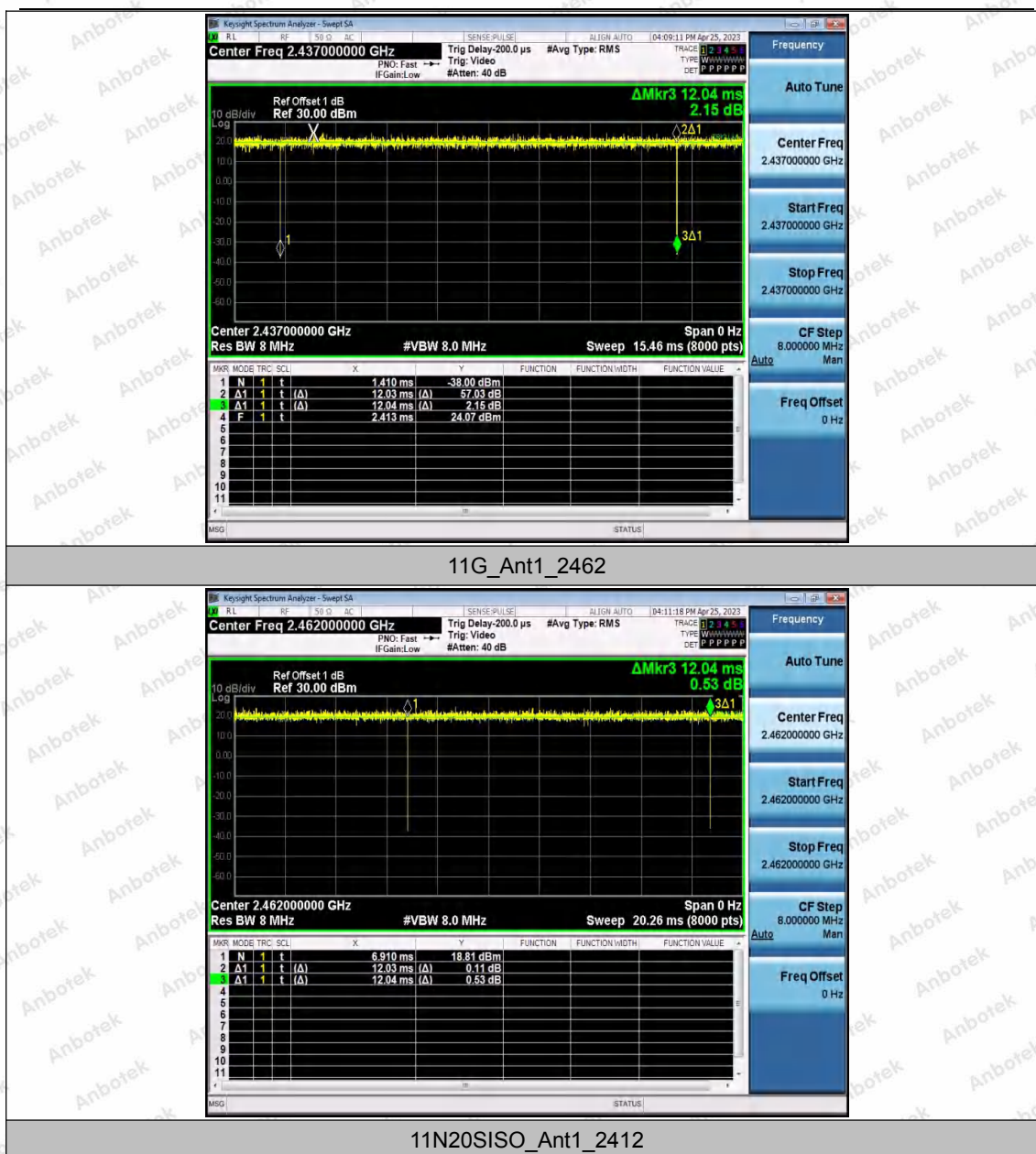
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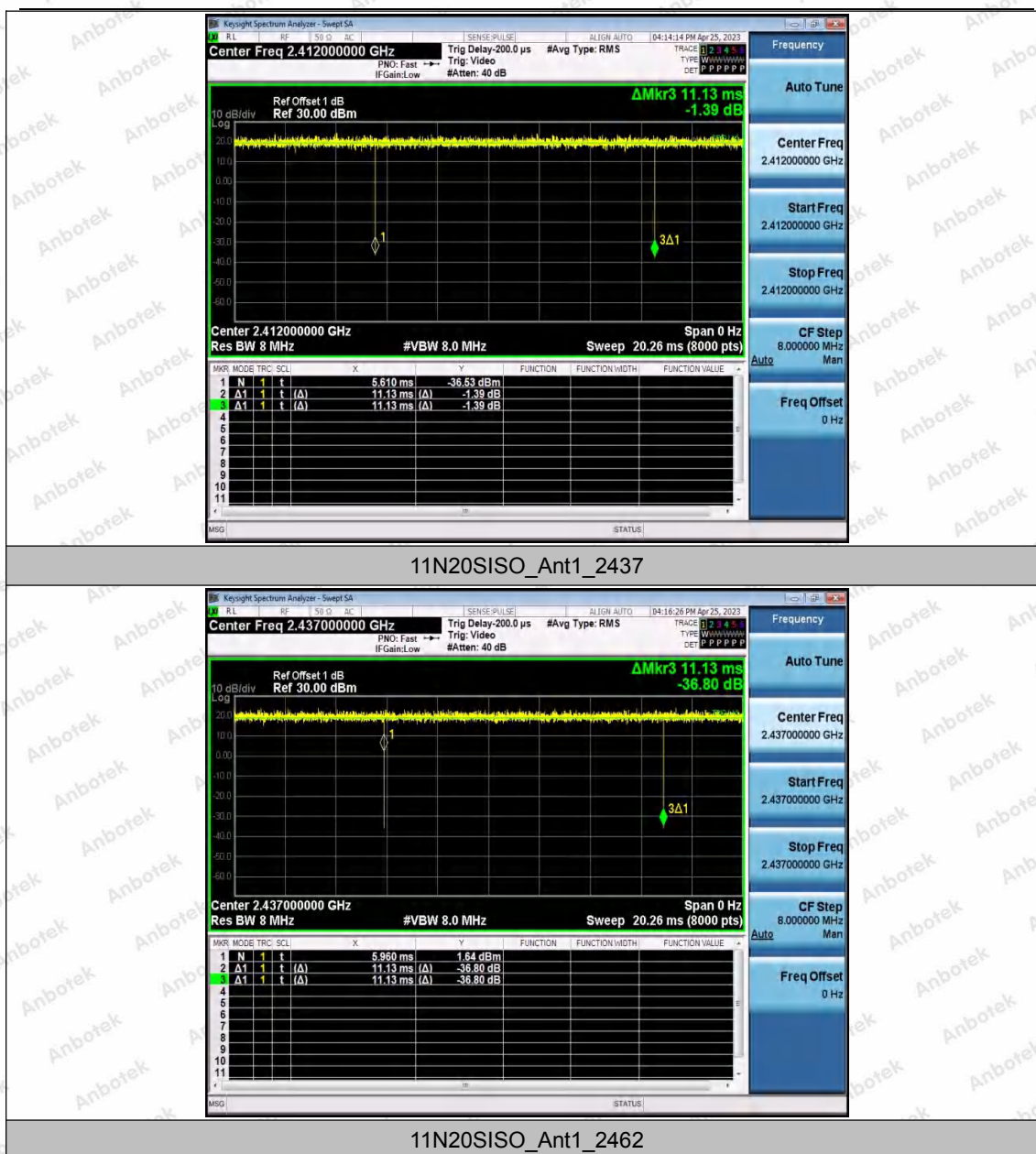
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