

Appendix Test Data

Report No.:	18220WC30007102	Test Sample No.:	1-2-2
Start Test Date:	2023.1.13	Finish Test Date:	2023.1.16
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	47 %
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	9.080	2407.480	2416.560	≥0.5	PASS
		2437	9.040	2432.480	2441.520	≥0.5	PASS
		2462	9.080	2457.480	2466.560	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
		2437	16.360	2428.800	2445.160	≥0.5	PASS
		2462	16.320	2453.840	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.600	2403.200	2420.800	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.600	2453.200	2470.800	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

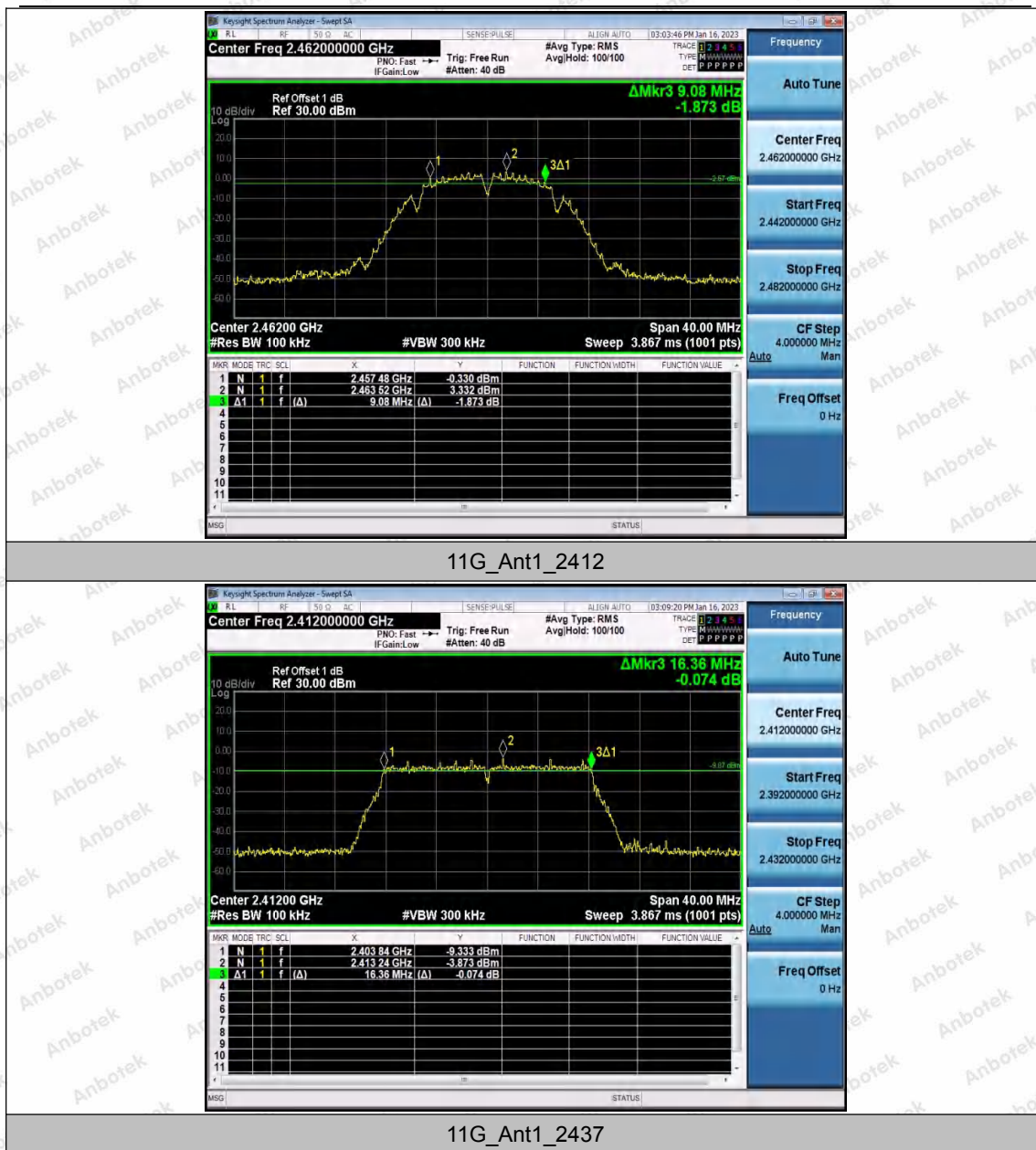
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11G_Ant1_2462



11N20_Ant1_2412

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11N20_Ant1_2437



11N20_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	12.291	2405.9403	2418.2313	---	---
		2437	12.305	2430.8505	2443.1555	---	---
		2462	12.339	2455.8198	2468.1588	---	---
11G	Ant1	2412	17.078	2403.5635	2420.6415	---	---
		2437	17.054	2428.4481	2445.5021	---	---
		2462	17.114	2453.4459	2470.5599	---	---
11N20	Ant1	2412	17.942	2403.0676	2421.0096	---	---
		2437	17.905	2428.0859	2445.9909	---	---
		2462	17.979	2453.0493	2471.0283	---	---



Test Graphs



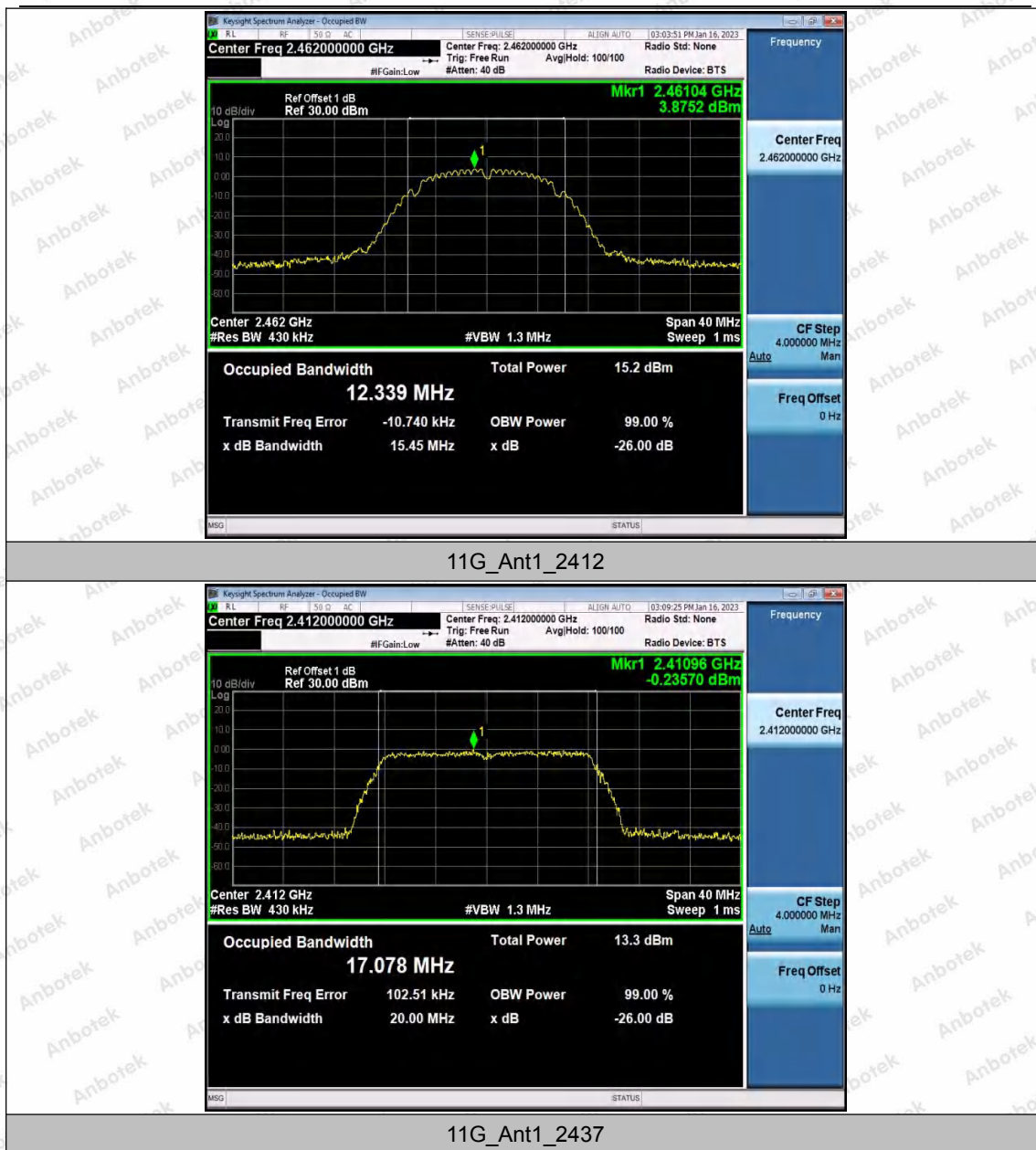
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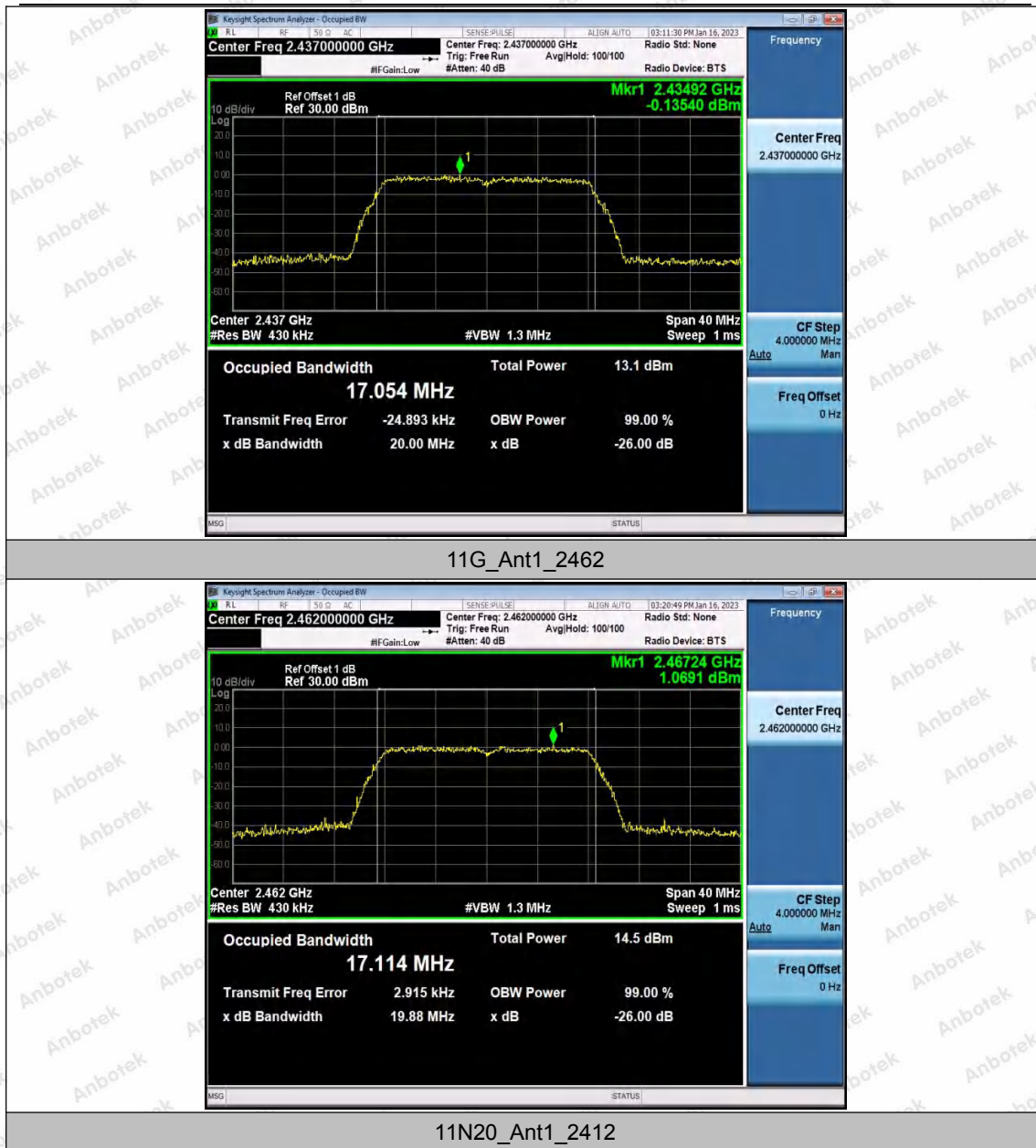
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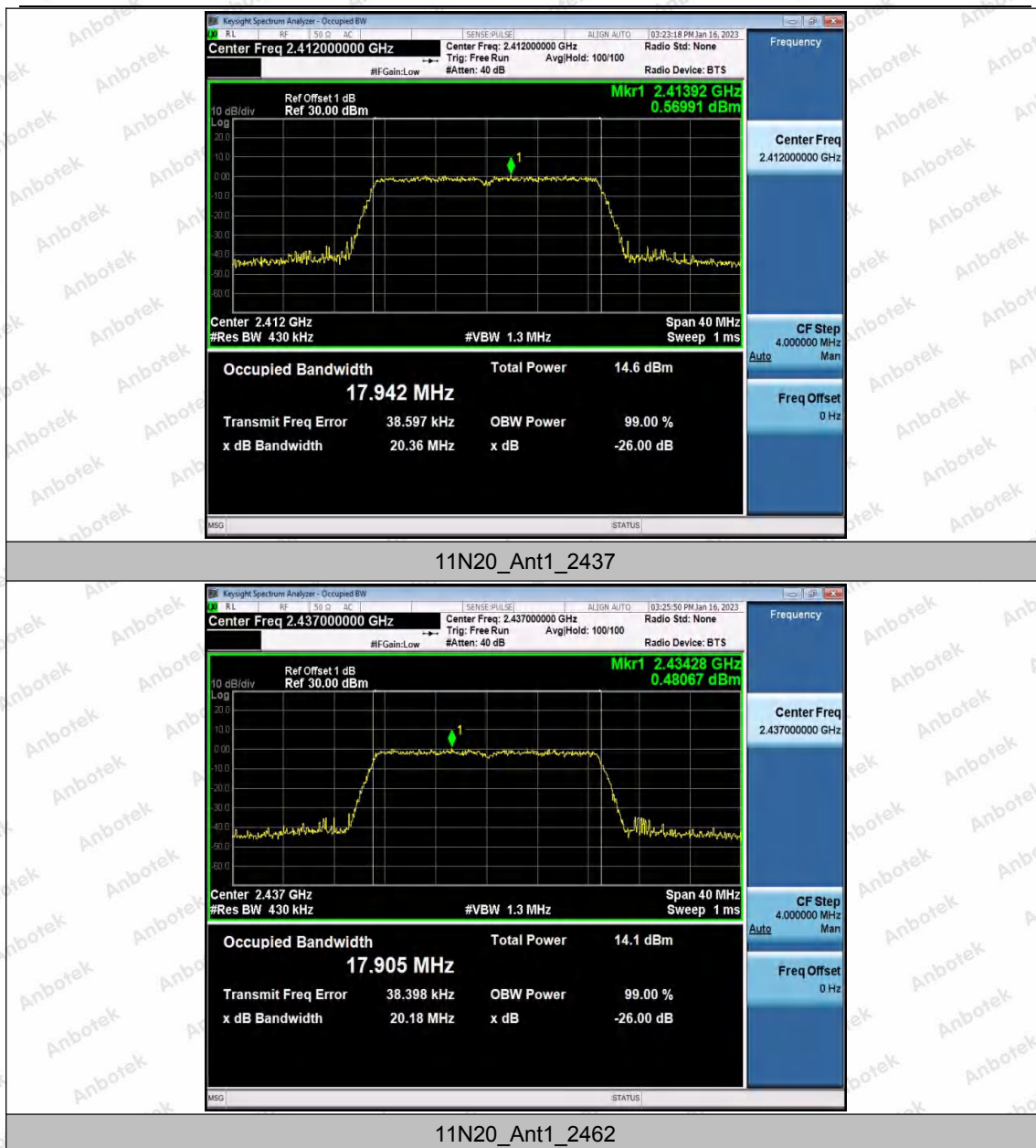
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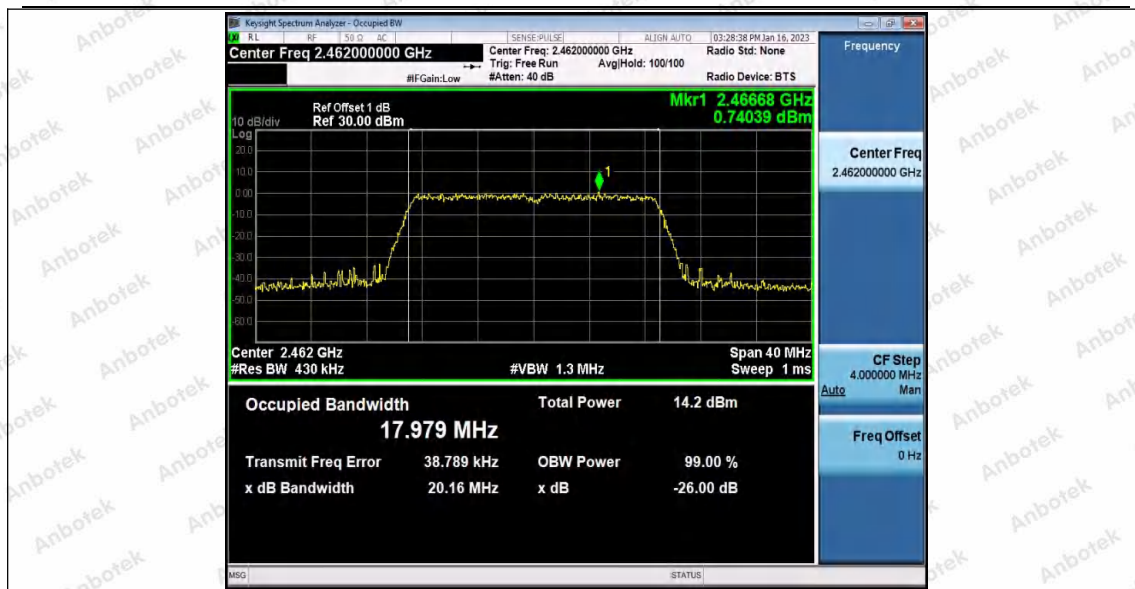
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.08	≤30.00
		2437	14.92	≤30.00
		2462	15.25	≤30.00
11G	Ant1	2412	14.48	≤30.00
		2437	14.23	≤30.00
		2462	15.61	≤30.00
11N20	Ant1	2412	15.65	≤30.00
		2437	15.31	≤30.00
		2462	15.30	≤30.00



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.44	≤8.00	PASS
		2437	-10.89	≤8.00	PASS
		2462	-10.88	≤8.00	PASS
11G	Ant1	2412	-18.07	≤8.00	PASS
		2437	-17.73	≤8.00	PASS
		2462	-16.65	≤8.00	PASS
11N20	Ant1	2412	-16.73	≤8.00	PASS
		2437	-16.61	≤8.00	PASS
		2462	-17.17	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

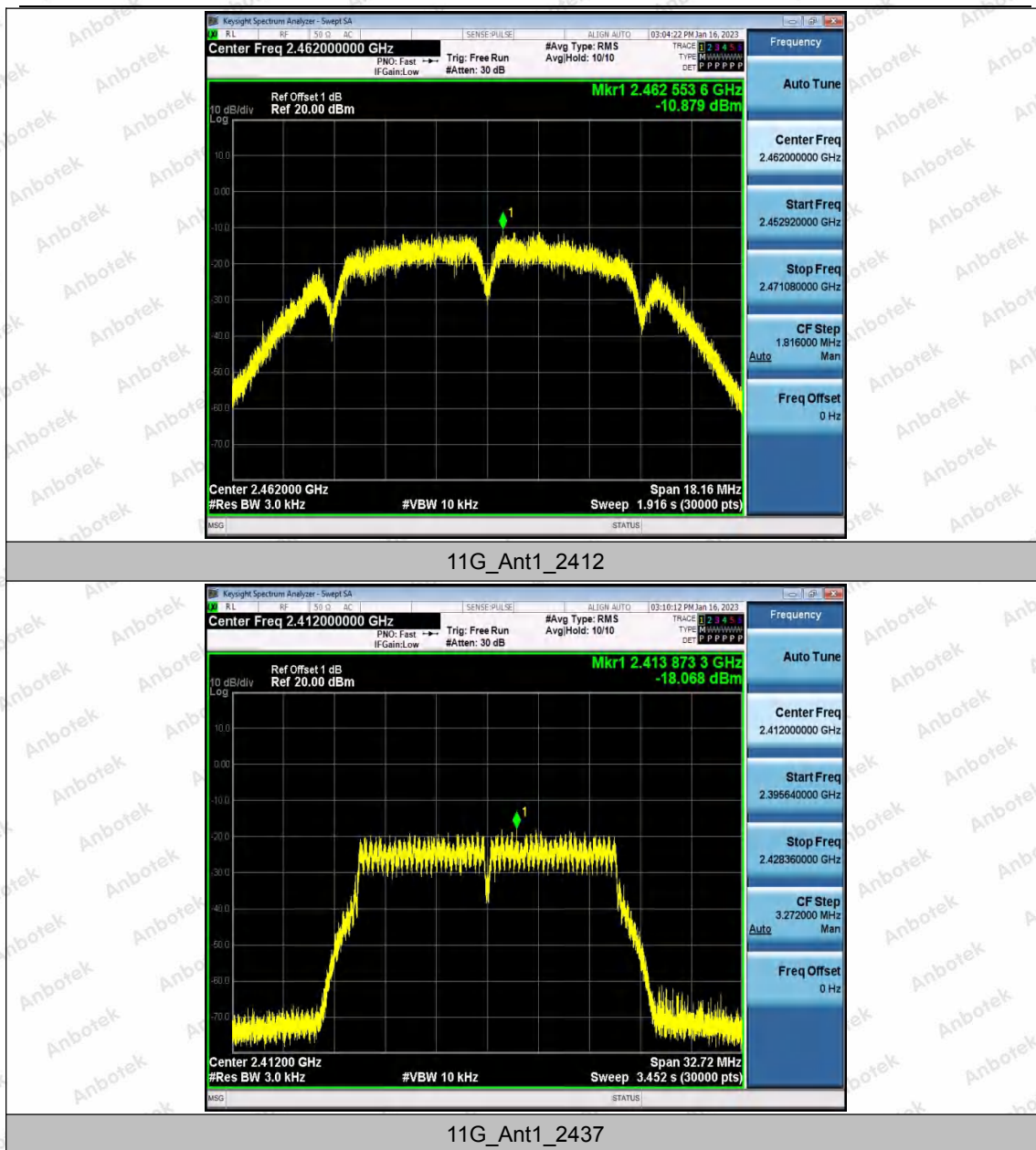
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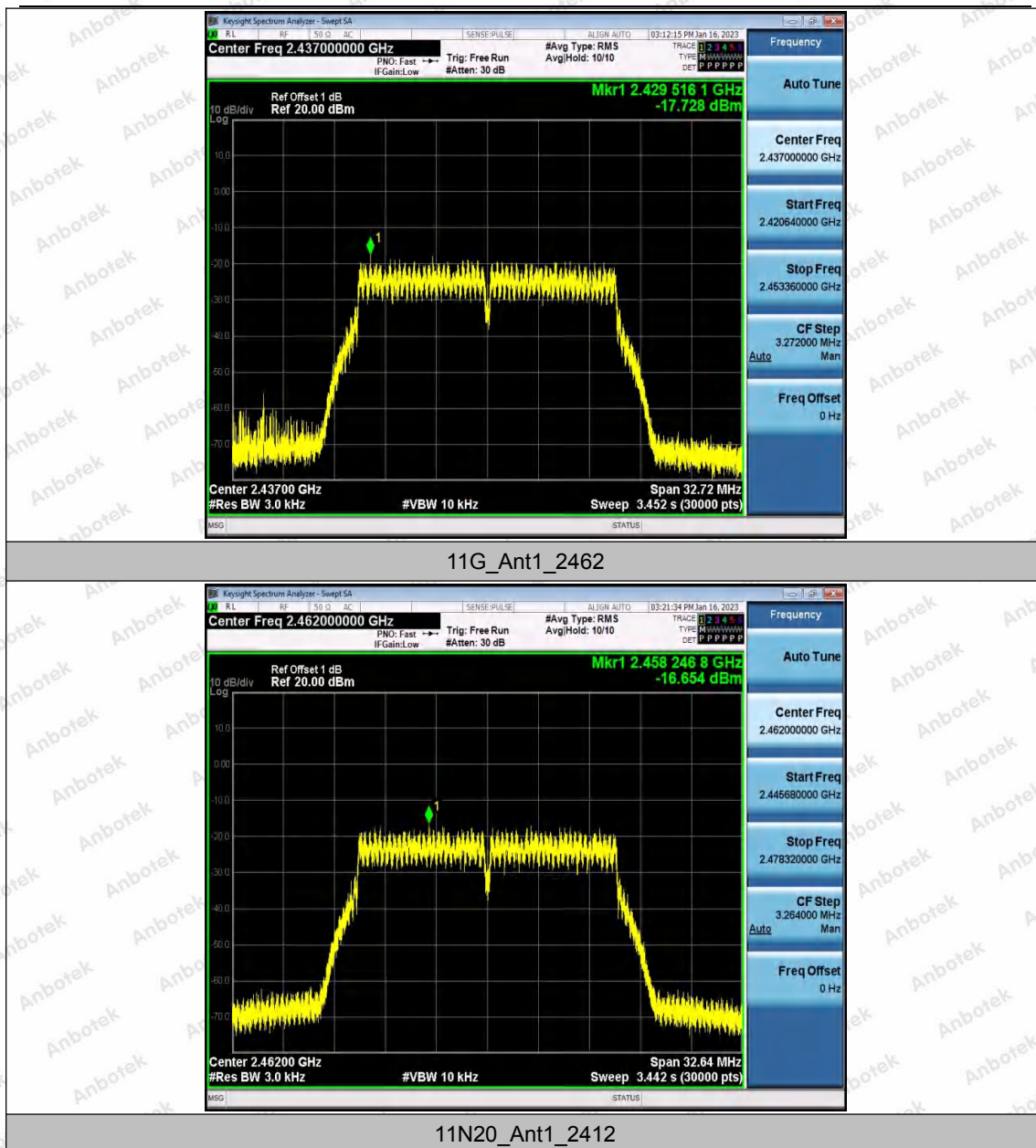
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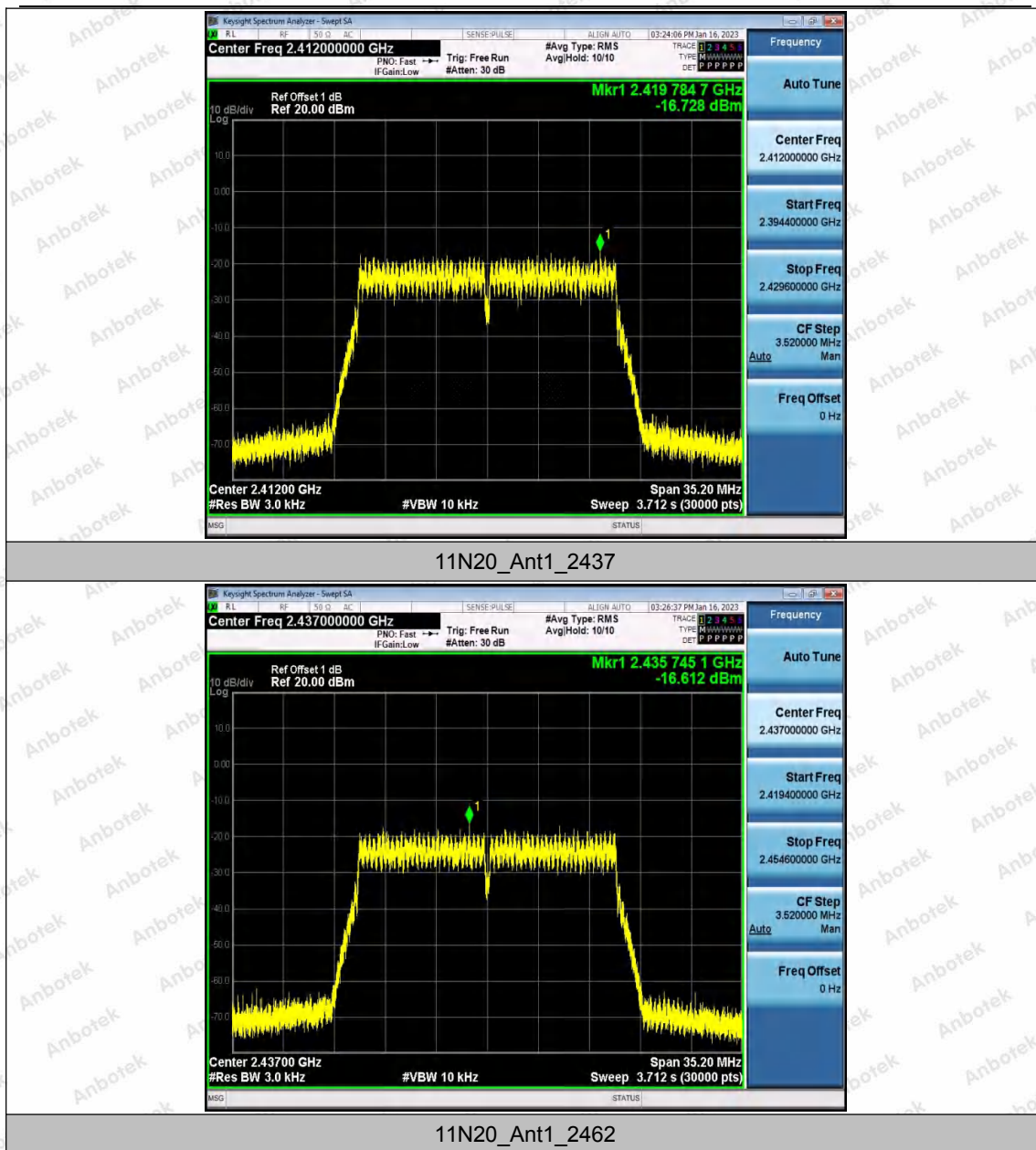
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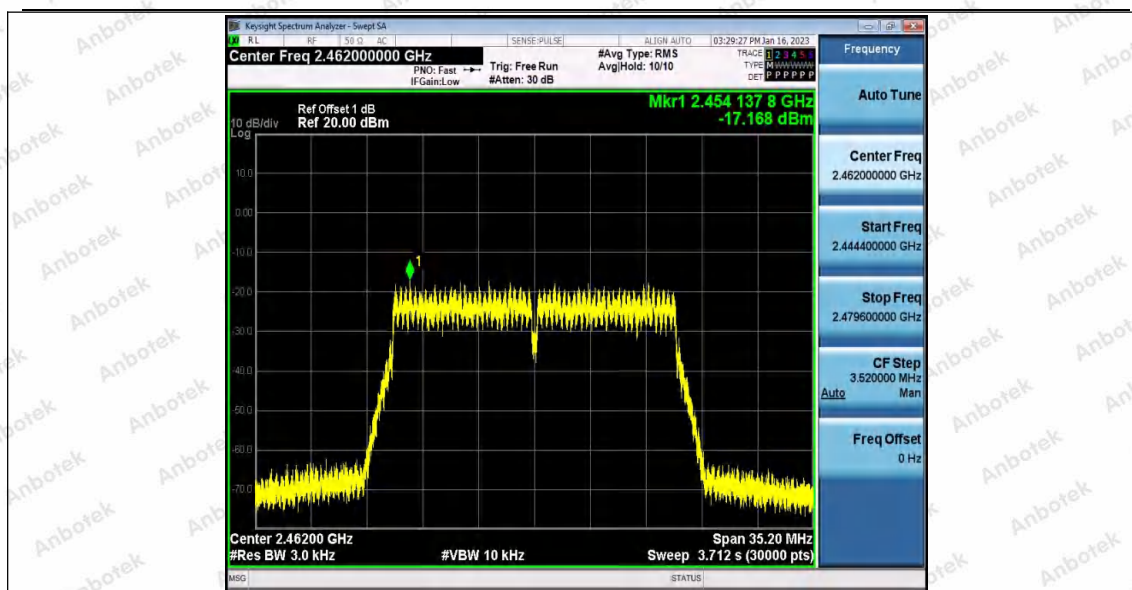
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Appendix E: Band edge measurements

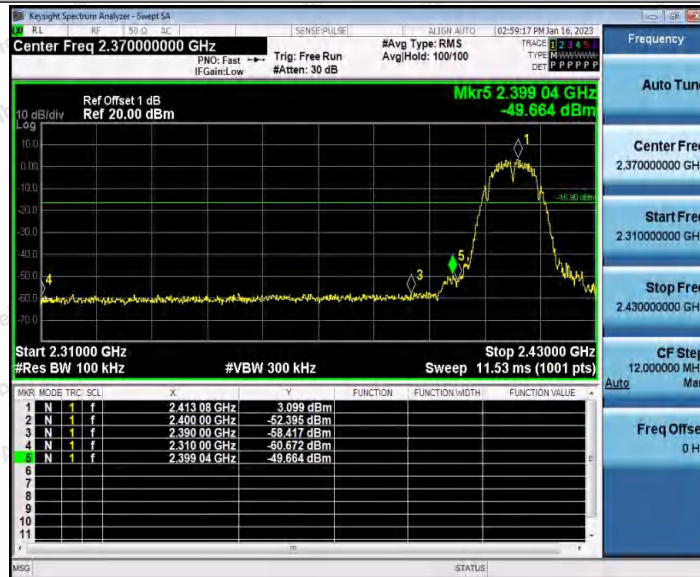
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.10	-49.66	≤-16.9	PASS
		High	2462	3.42	-56.86	≤-16.58	PASS
11G	Ant1	Low	2412	-4.27	-51.93	≤-24.27	PASS
		High	2462	-2.93	-53.56	≤-22.93	PASS
11N20	Ant1	Low	2412	-2.75	-41.25	≤-22.75	PASS
		High	2462	-3.41	-53.49	≤-23.41	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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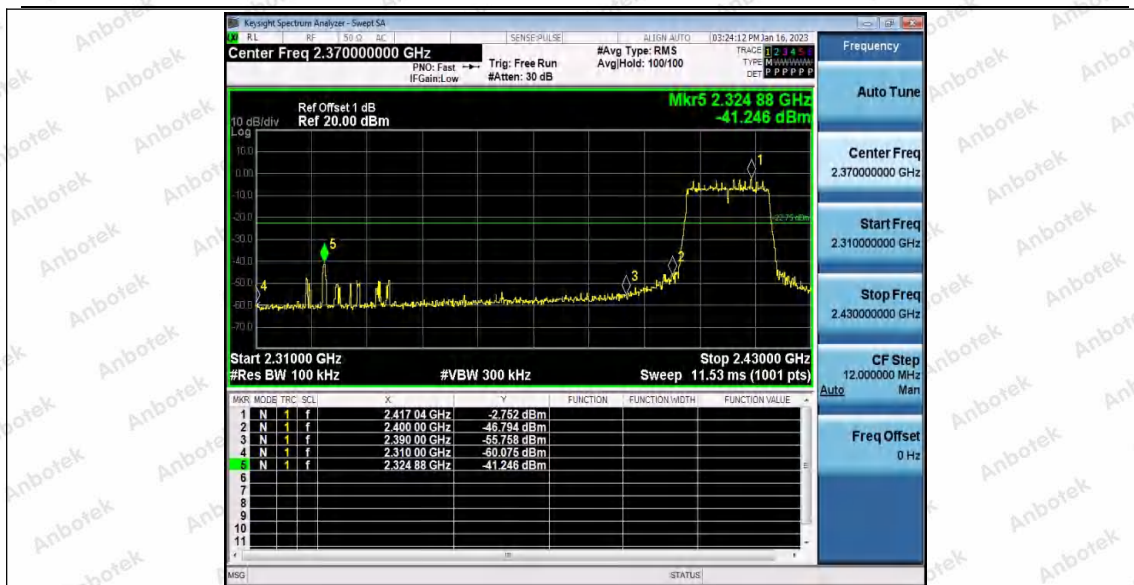
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11N20_Ant1_High_2462



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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	1.84	1.84	---	PASS
			30~1000	1.84	-68.4	≤-18.16	PASS
			1000~26500	1.84	-53.53	≤-18.16	PASS
		2437	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-67.73	≤-16.92	PASS
			1000~26500	3.08	-53.26	≤-16.92	PASS
		2462	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-68.3	≤-17.08	PASS
			1000~26500	2.92	-53.54	≤-17.08	PASS
11G	Ant1	2412	Reference	-7.36	-7.36	---	PASS
			30~1000	-7.36	-68.89	≤-27.36	PASS
			1000~26500	-7.36	-52.68	≤-27.36	PASS
		2437	Reference	-8.22	-8.22	---	PASS
			30~1000	-8.22	-68.8	≤-28.22	PASS
			1000~26500	-8.22	-53.22	≤-28.22	PASS
		2462	Reference	-3.32	-3.32	---	PASS
			30~1000	-3.32	-68.25	≤-23.32	PASS
			1000~26500	-3.32	-52.93	≤-23.32	PASS
11N20	Ant1	2412	Reference	-4.53	-4.53	---	PASS
			30~1000	-4.53	-69.04	≤-24.53	PASS
			1000~26500	-4.53	-53.01	≤-24.53	PASS
		2437	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-67.72	≤-25.12	PASS
			1000~26500	-5.12	-52.76	≤-25.12	PASS
		2462	Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-69.5	≤-23.6	PASS
			1000~26500	-3.60	-52.97	≤-23.6	PASS



Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

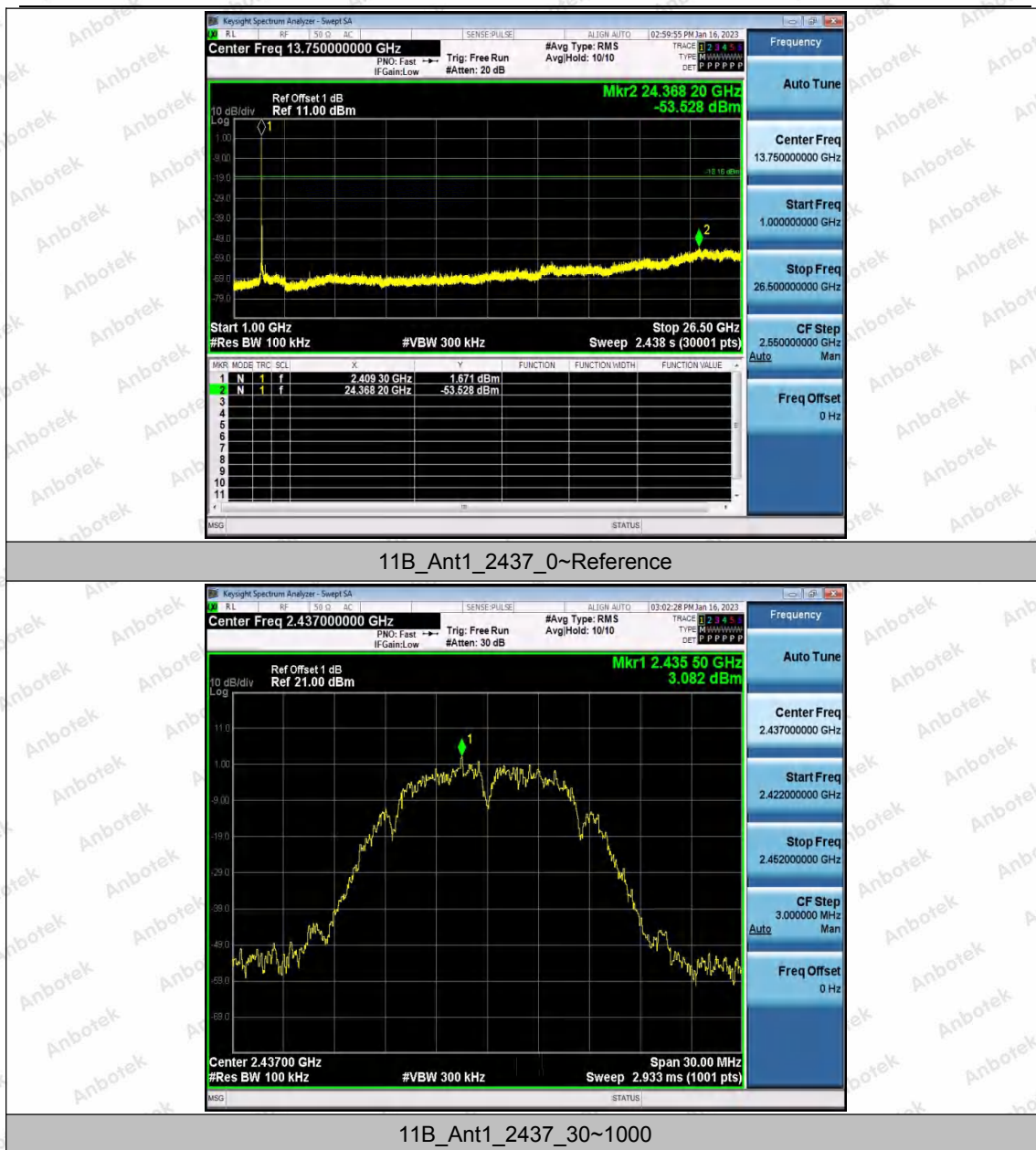
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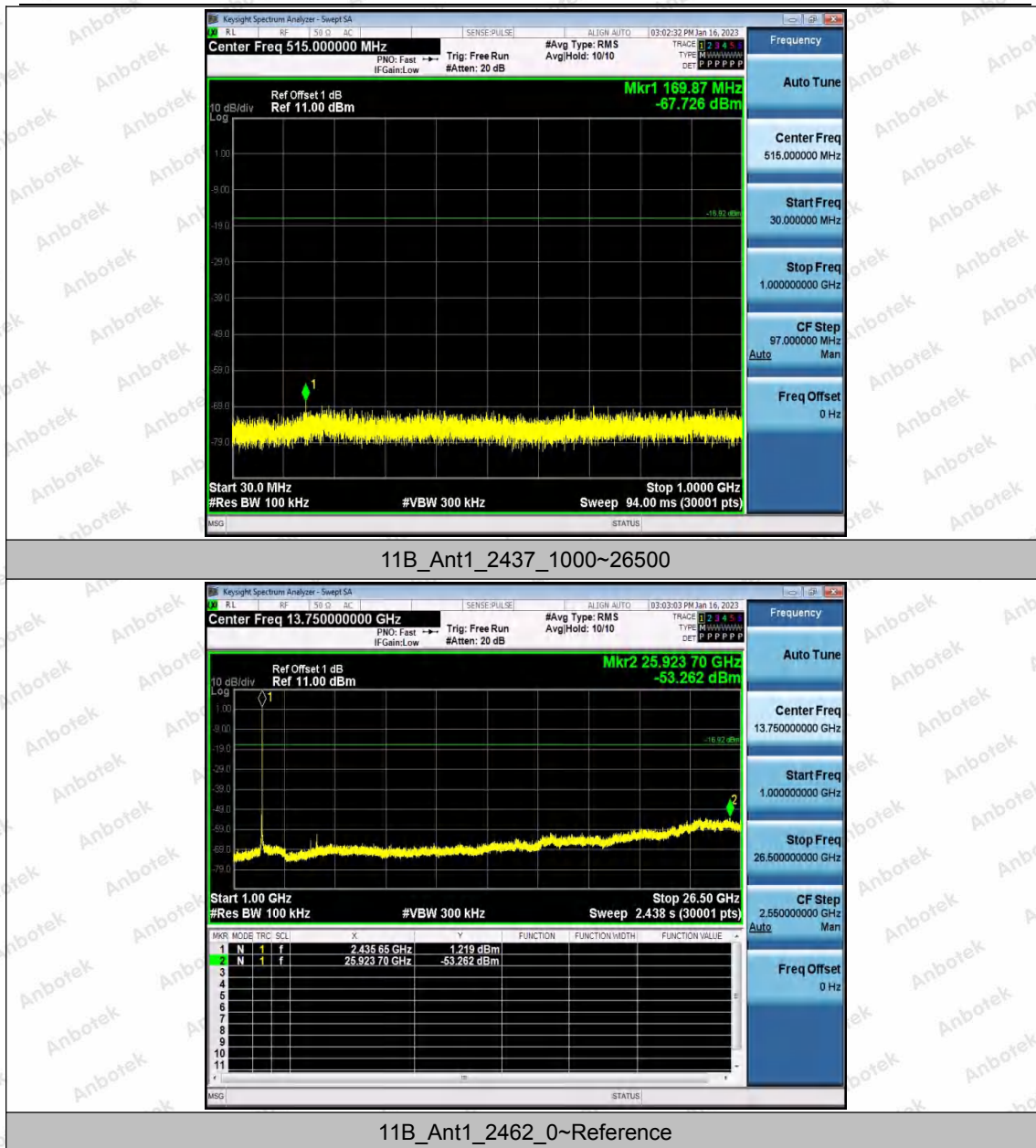
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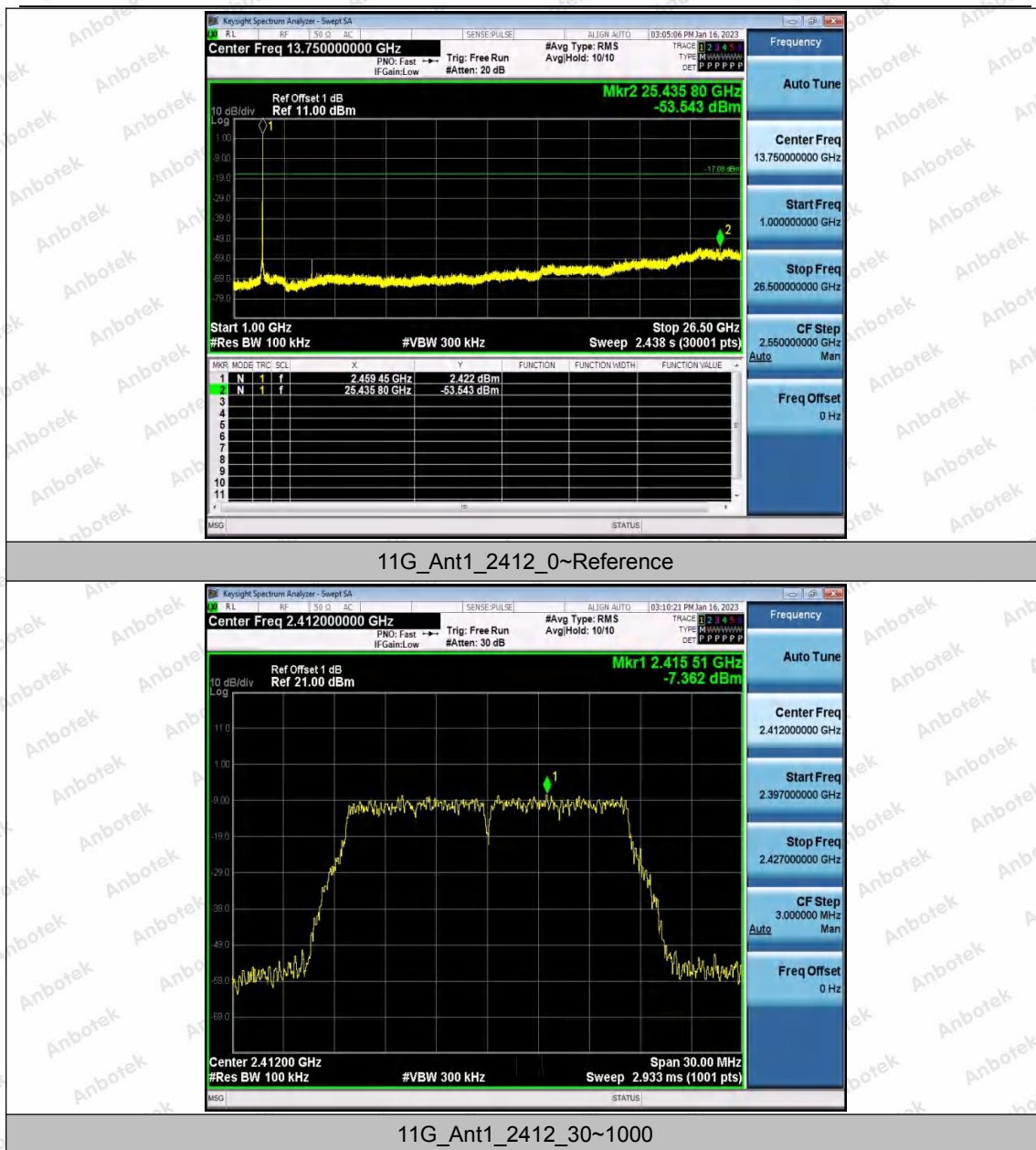
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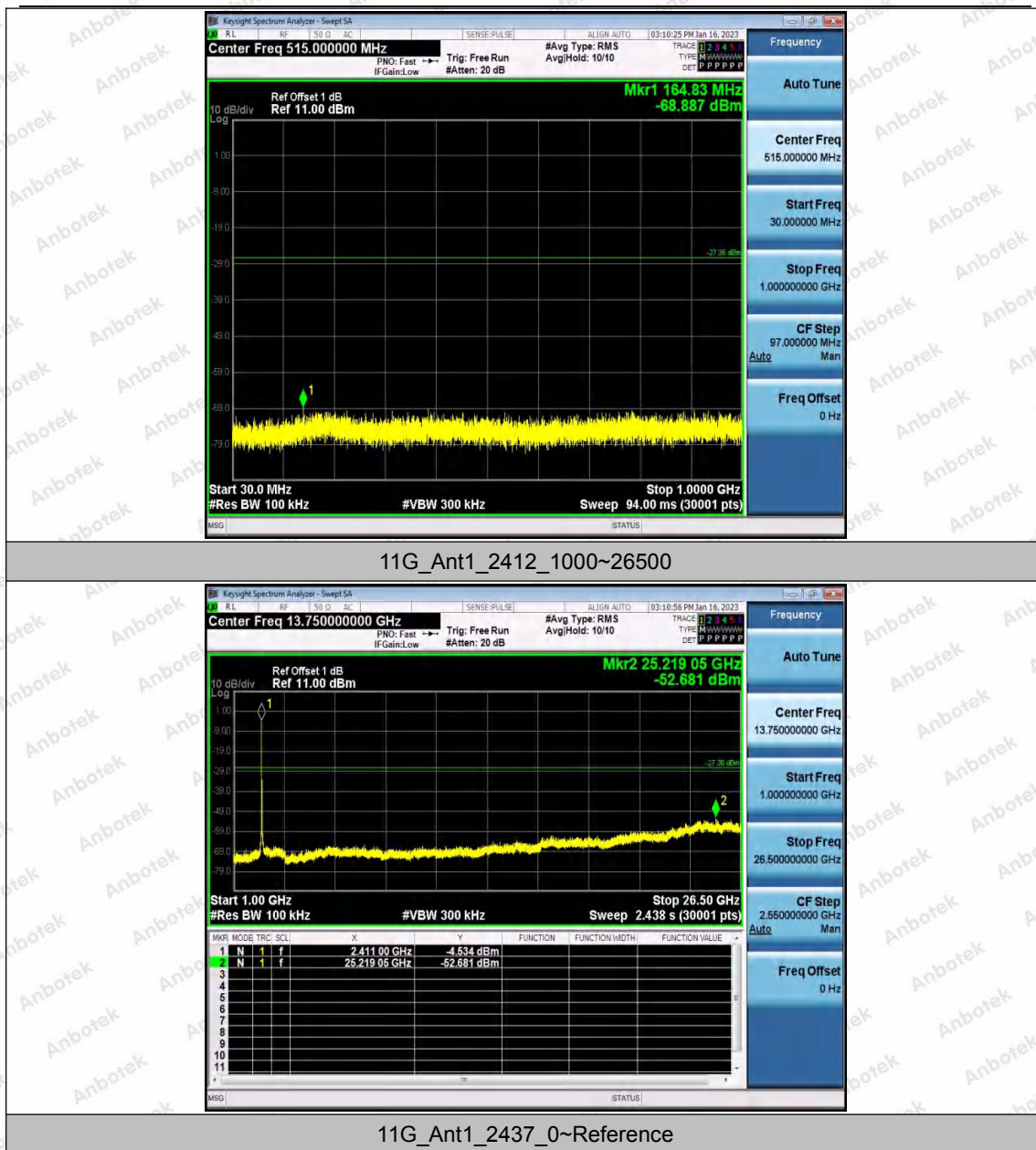
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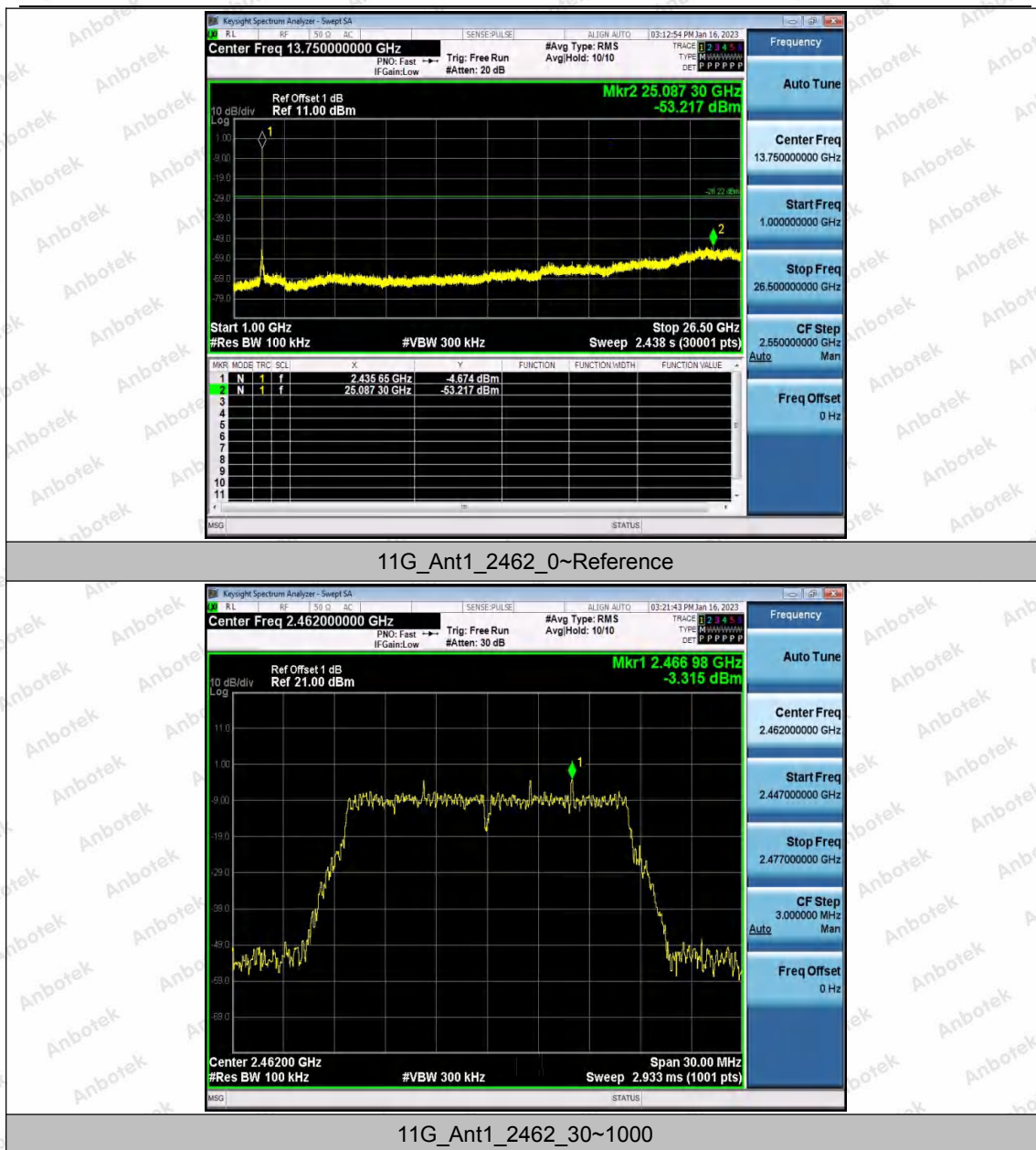
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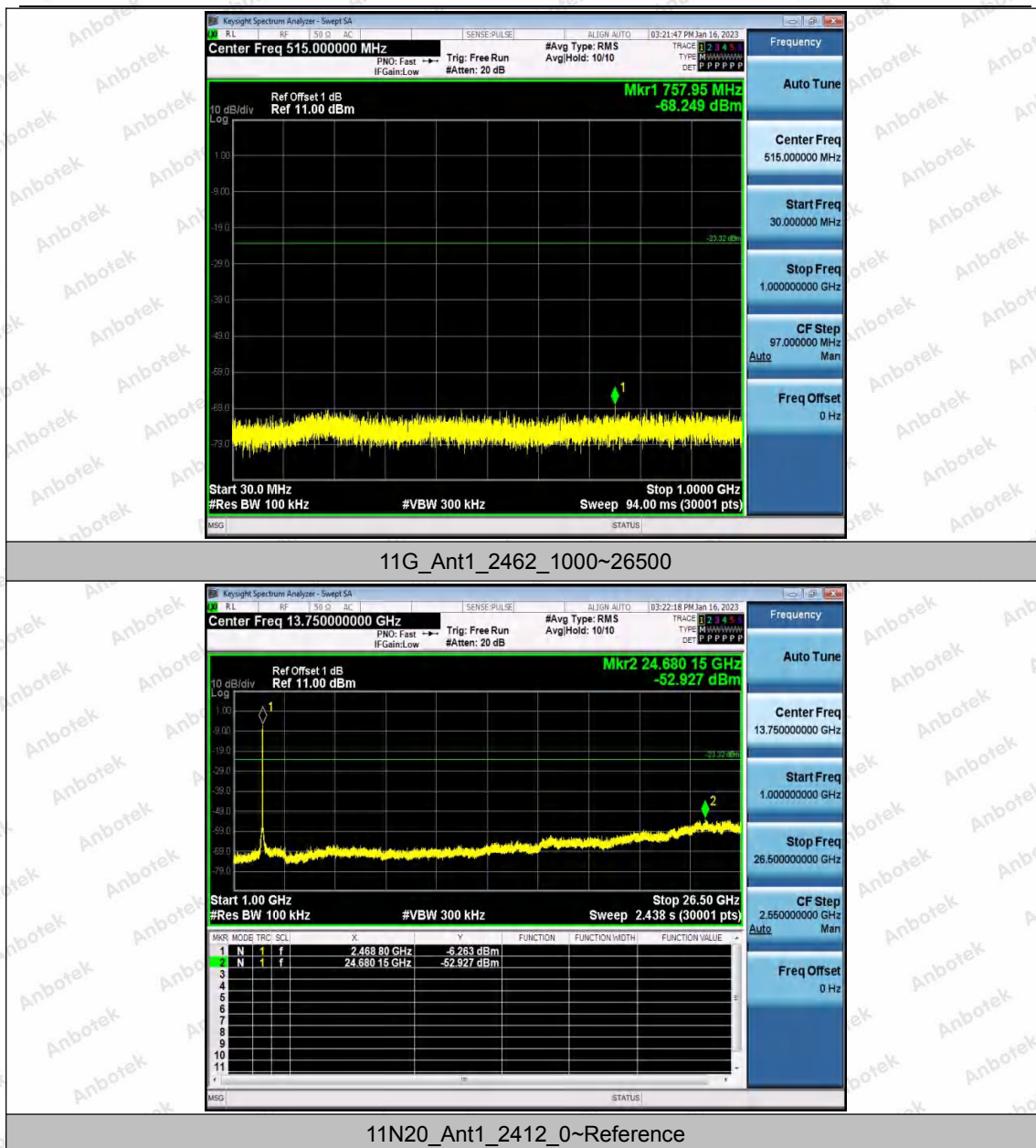
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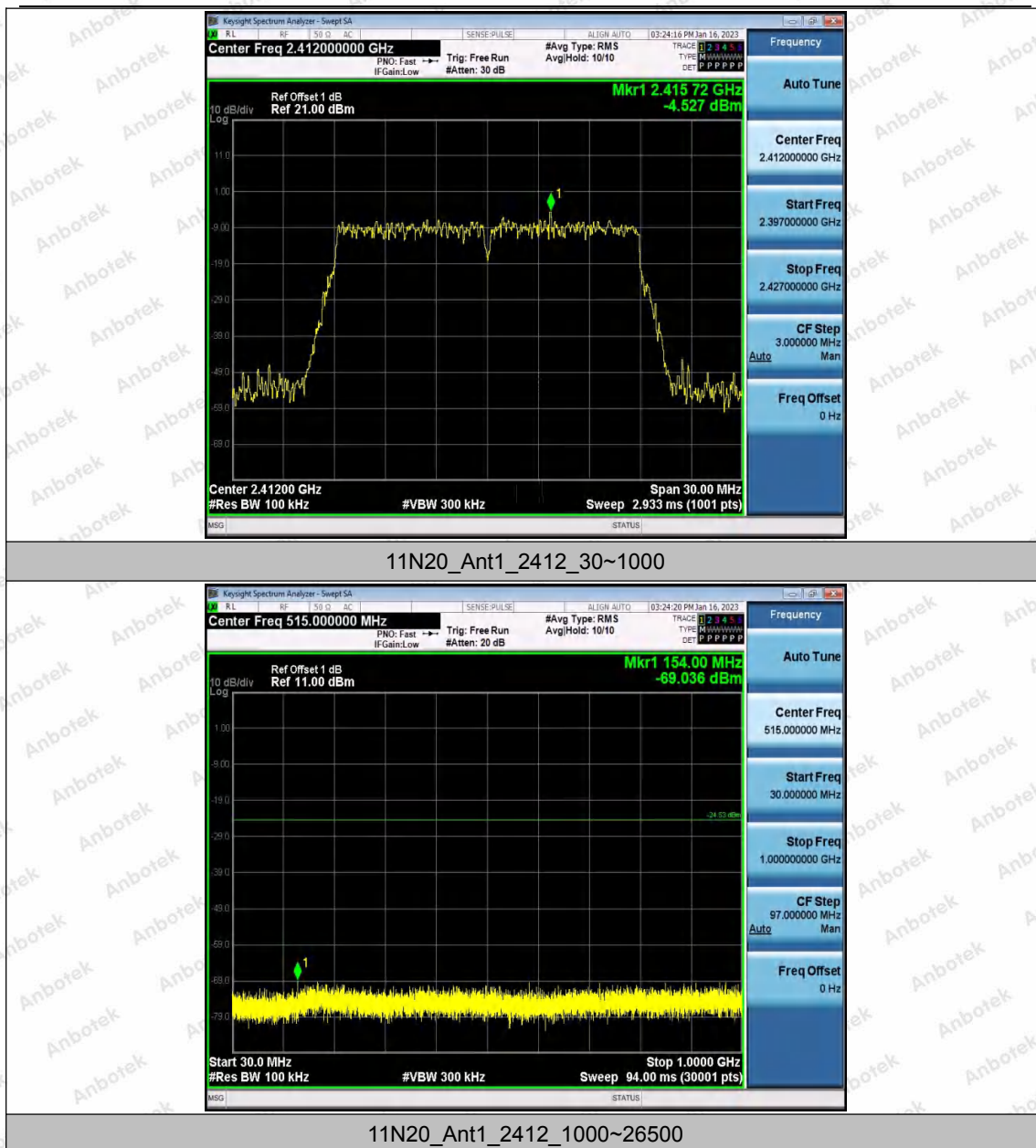
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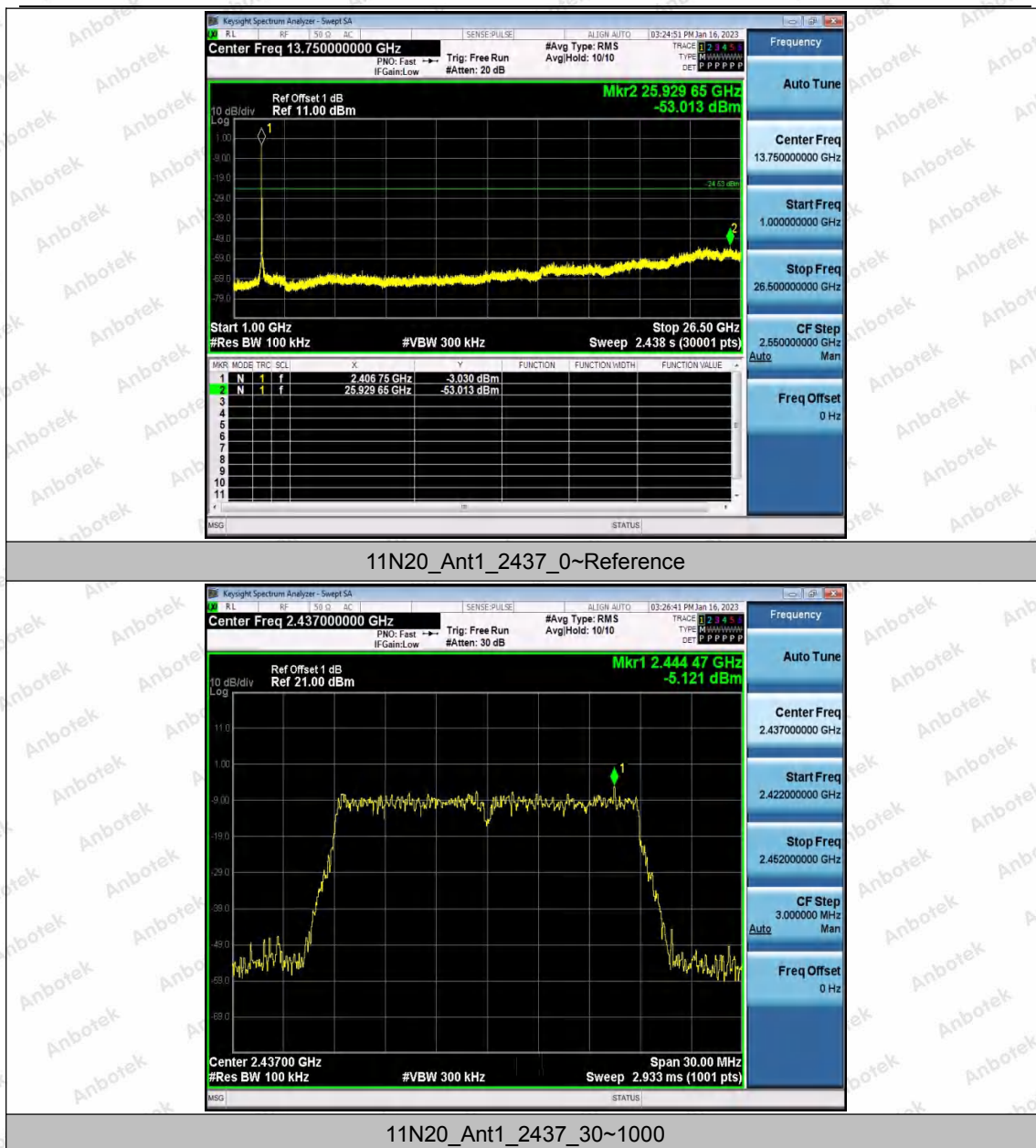
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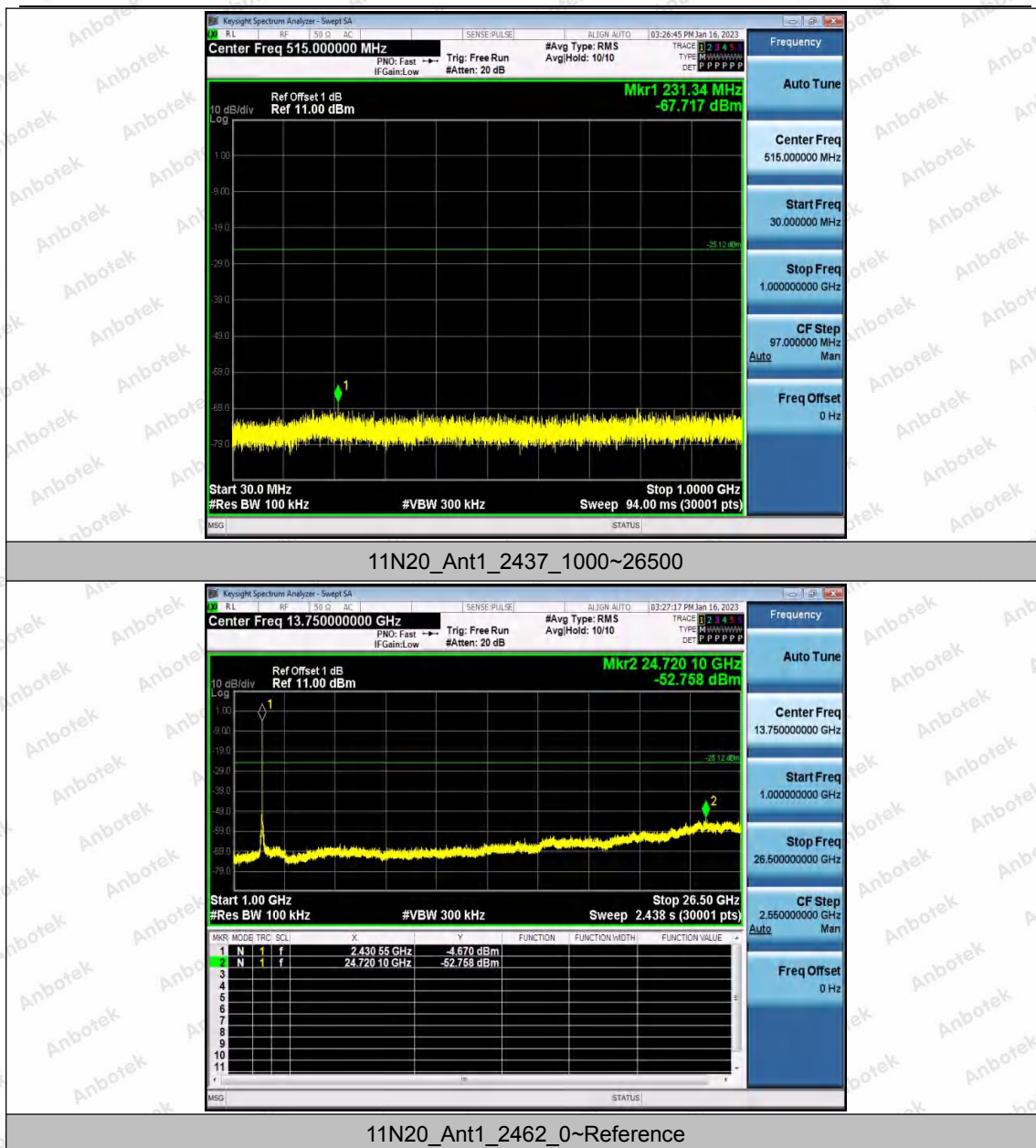
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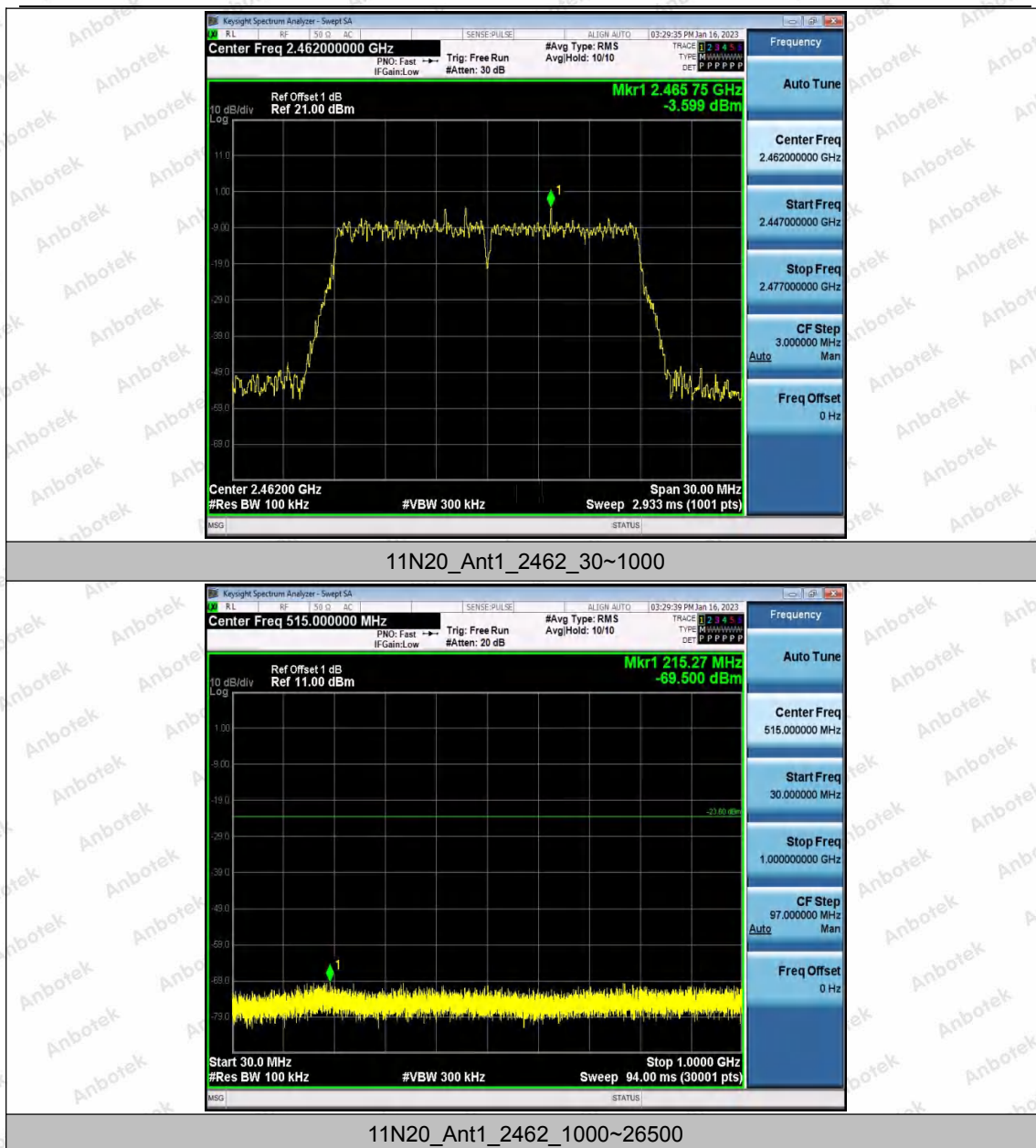
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
		2437	1.40	1.43	97.90	0.09
		2462	1.39	1.43	97.20	0.12
11N20	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.34	97.01	0.13



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

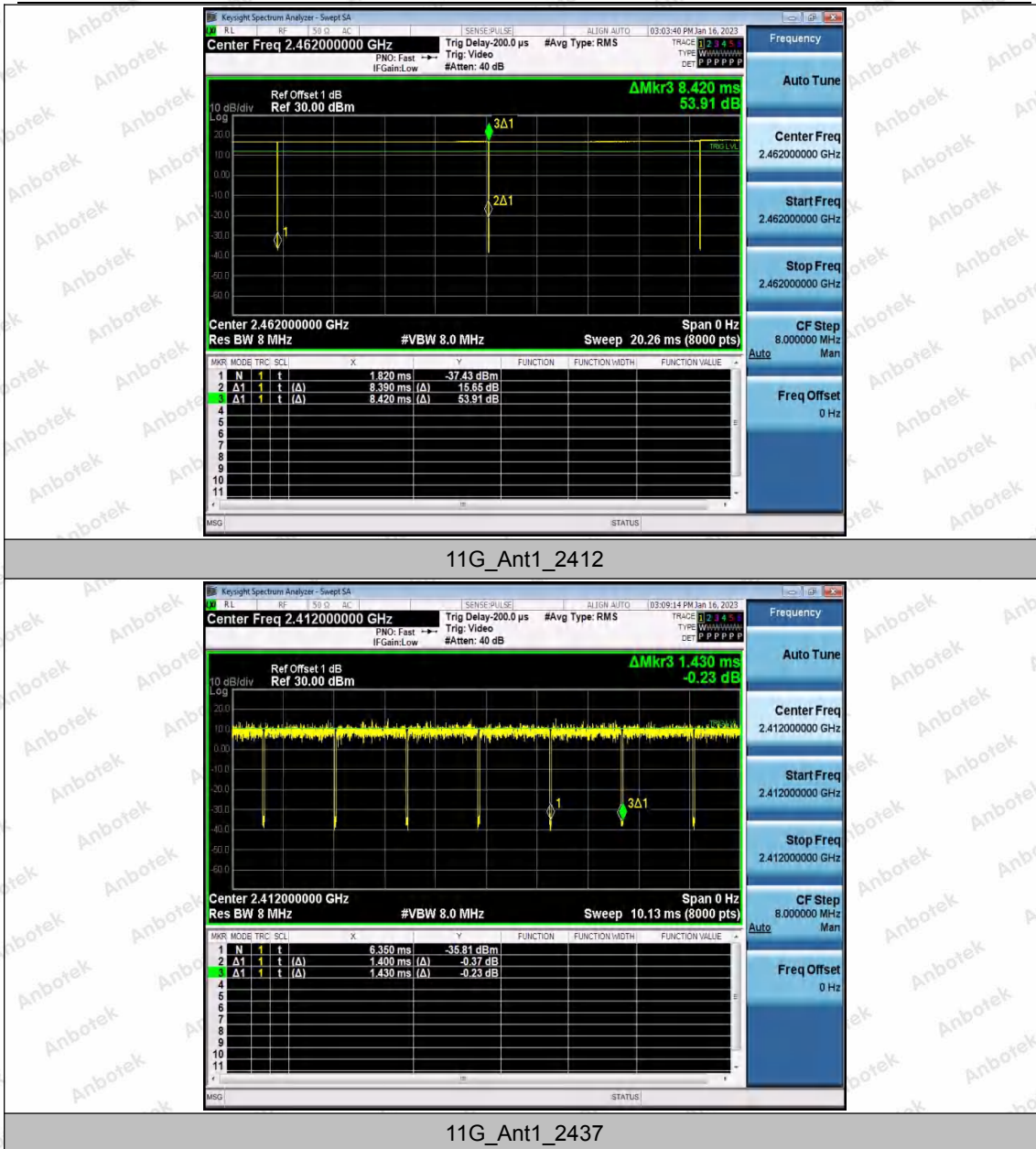
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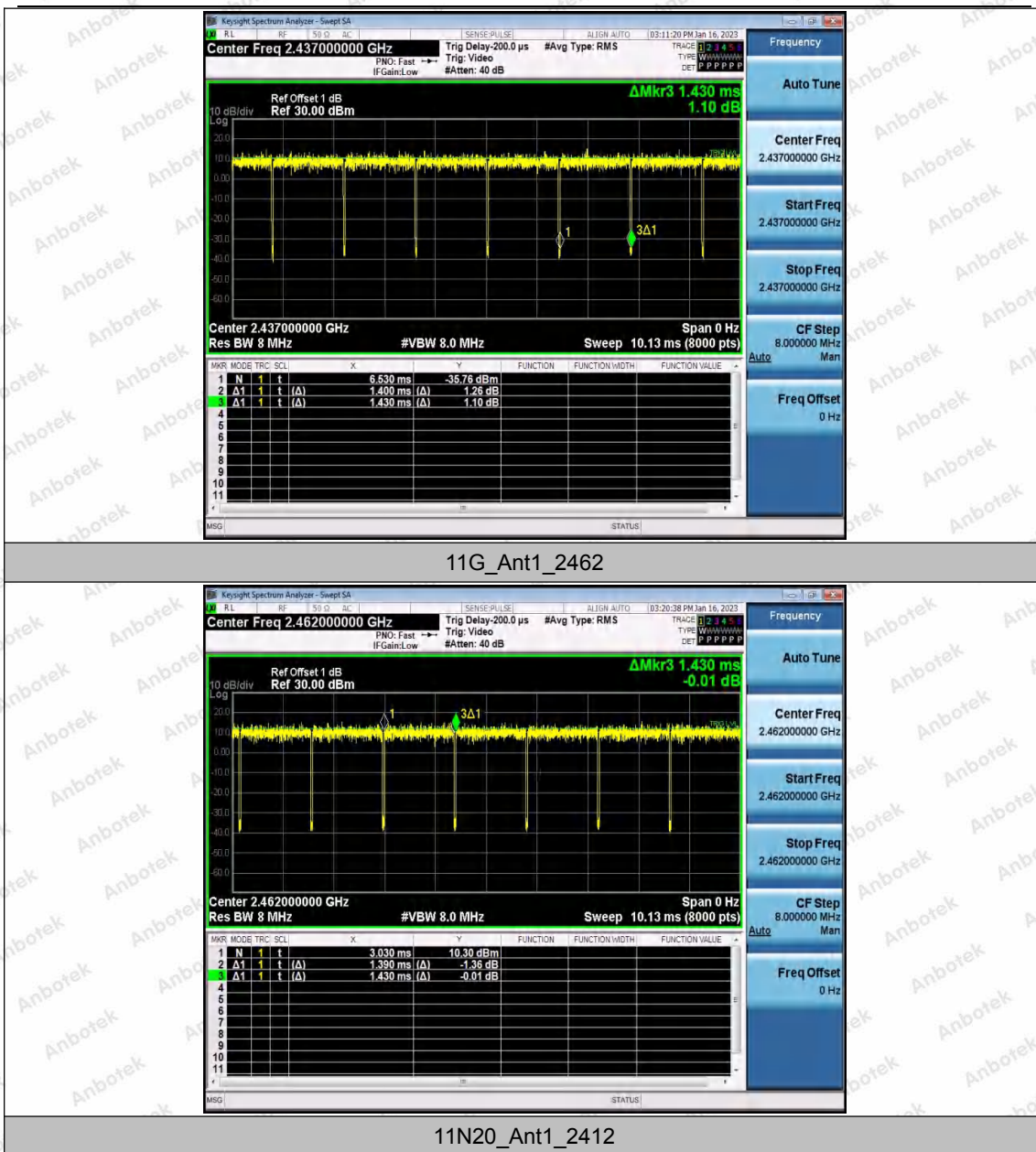
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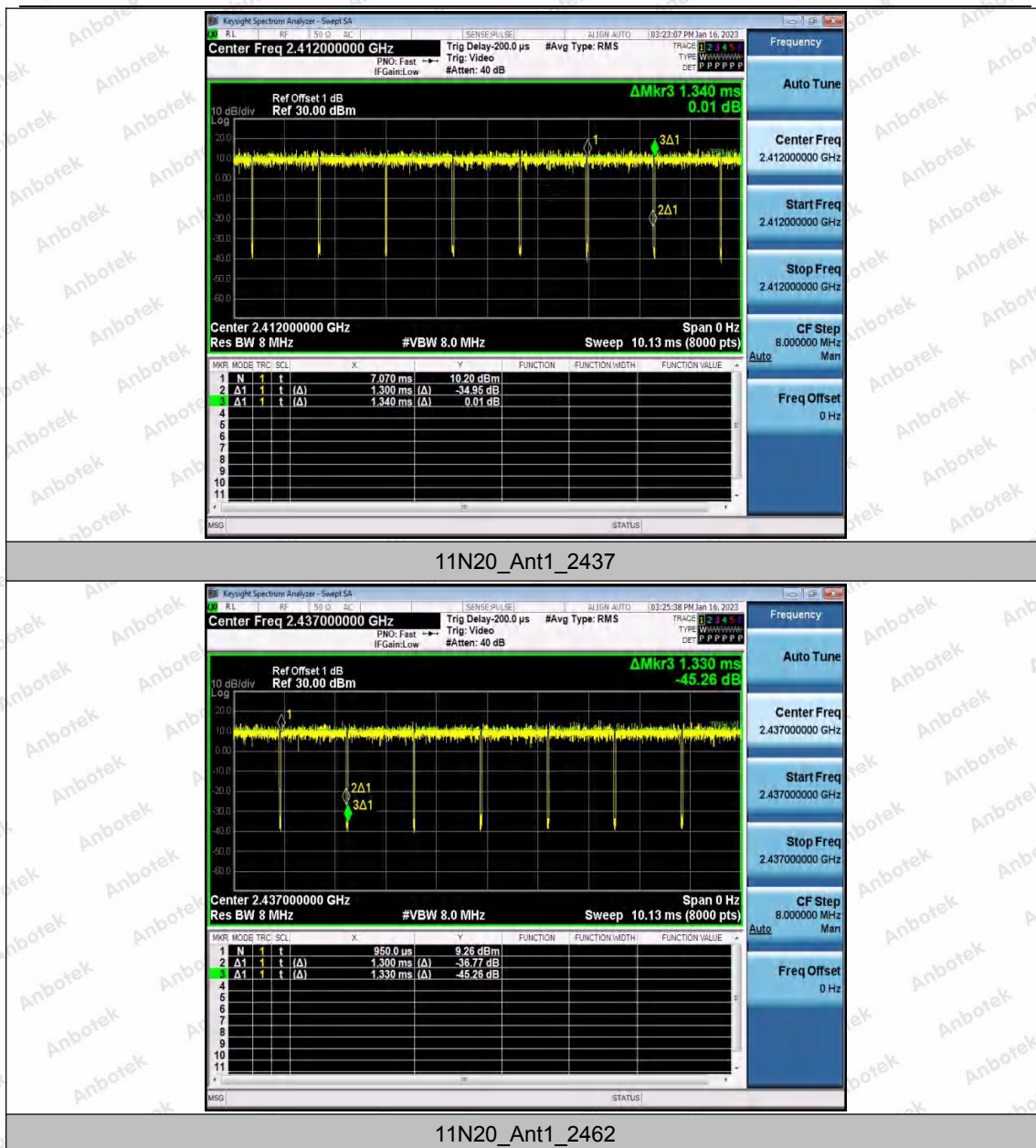
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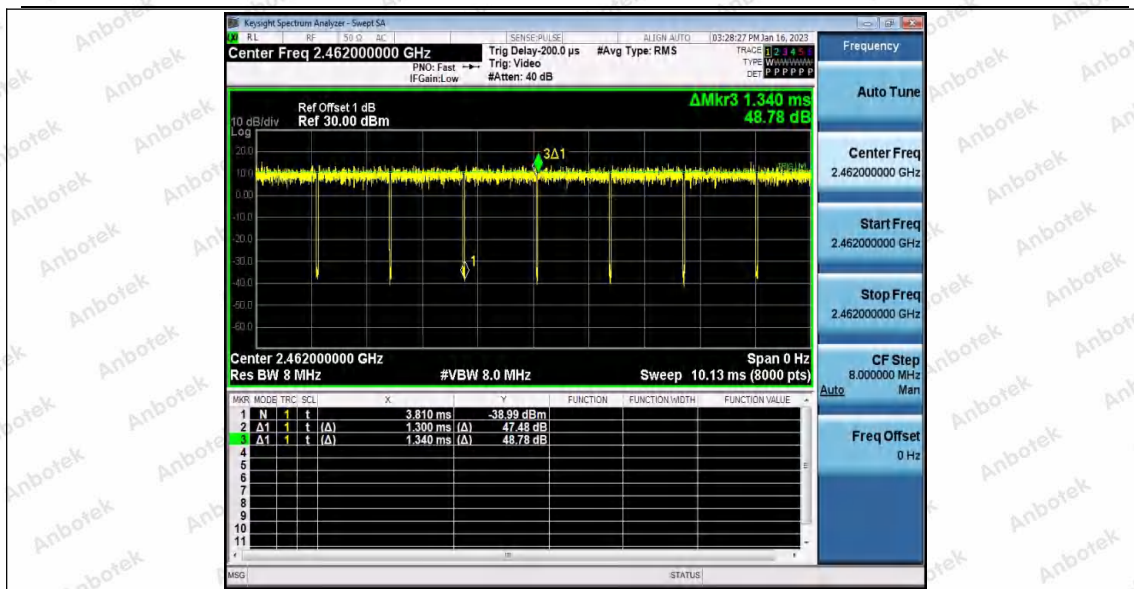
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