

Appendix Test Data

Report No.:	18220WC20012701	Test Sample No.:	1-2-2
Start Test Date:	2022.2.10	Finish Test Date:	2022.2.16
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.160	2407.440	2416.600	≥0.5	PASS
		2437	9.600	2431.960	2441.560	≥0.5	PASS
		2462	9.160	2457.440	2466.600	≥0.5	PASS
11G	Ant1	2412	13.960	2405.640	2419.600	≥0.5	PASS
		2437	15.120	2429.440	2444.560	≥0.5	PASS
		2462	14.720	2455.080	2469.800	≥0.5	PASS
11N20	Ant1	2412	16.960	2403.840	2420.800	≥0.5	PASS
		2437	14.240	2429.440	2443.680	≥0.5	PASS
		2462	16.320	2454.480	2470.800	≥0.5	PASS
11N40	Ant1	2422	35.220	2404.420	2439.640	≥0.5	PASS
		2437	35.280	2419.360	2454.640	≥0.5	PASS
		2452	34.200	2435.620	2469.820	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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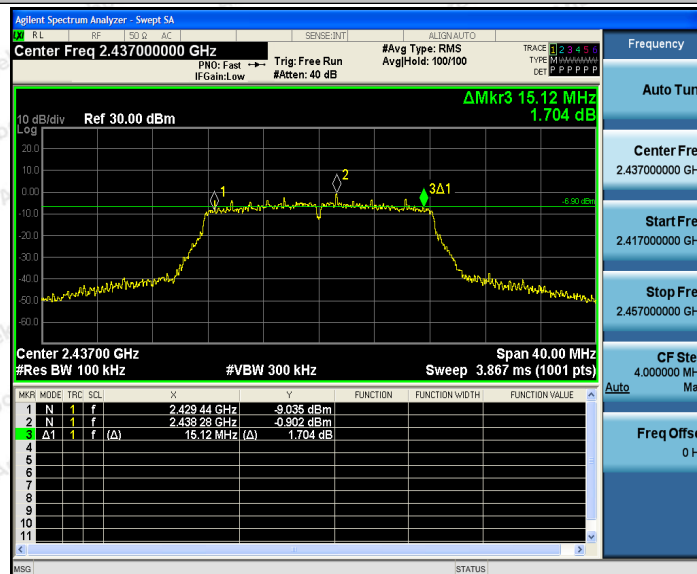
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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20_Ant1_2412



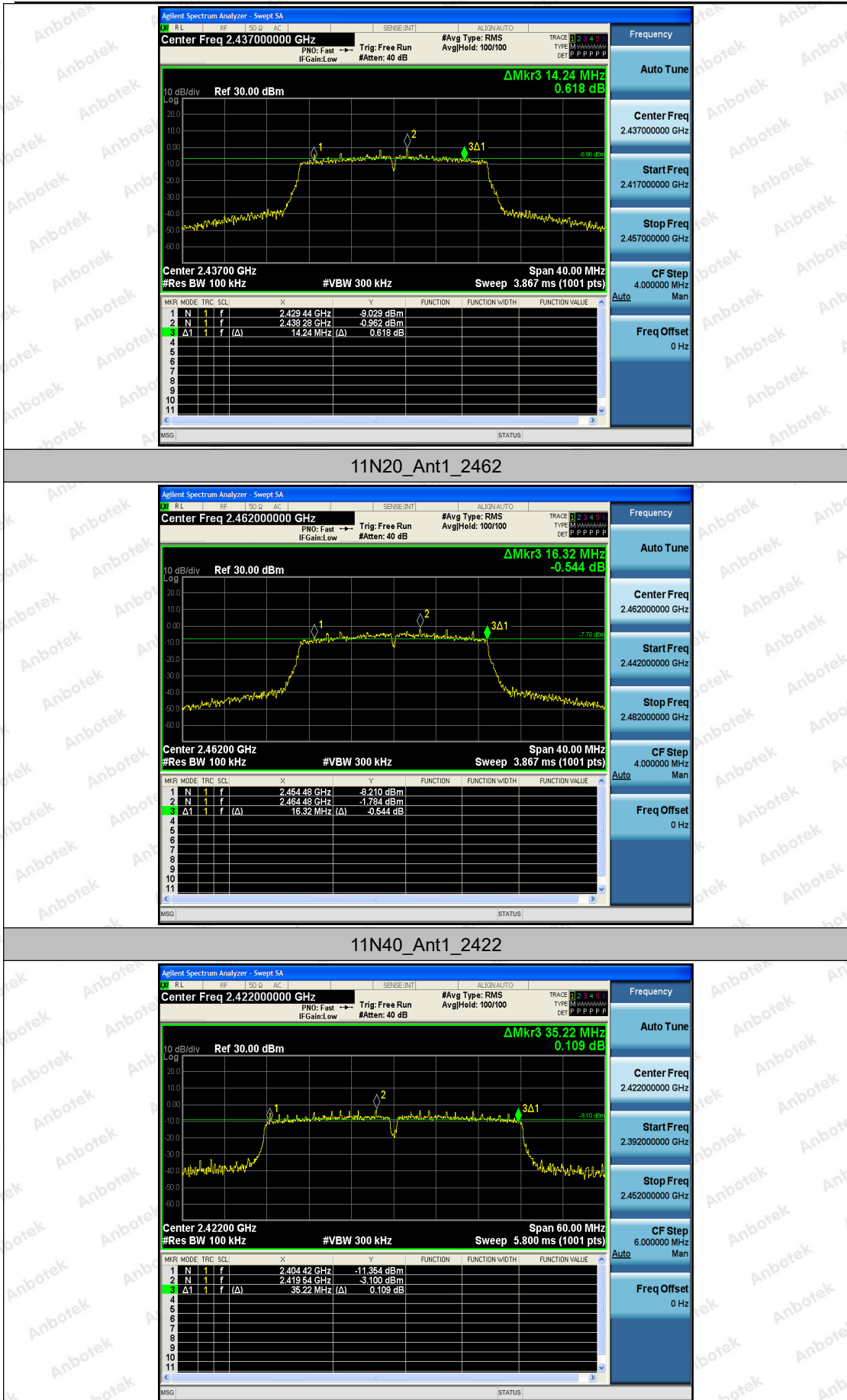
11N20_Ant1_2437

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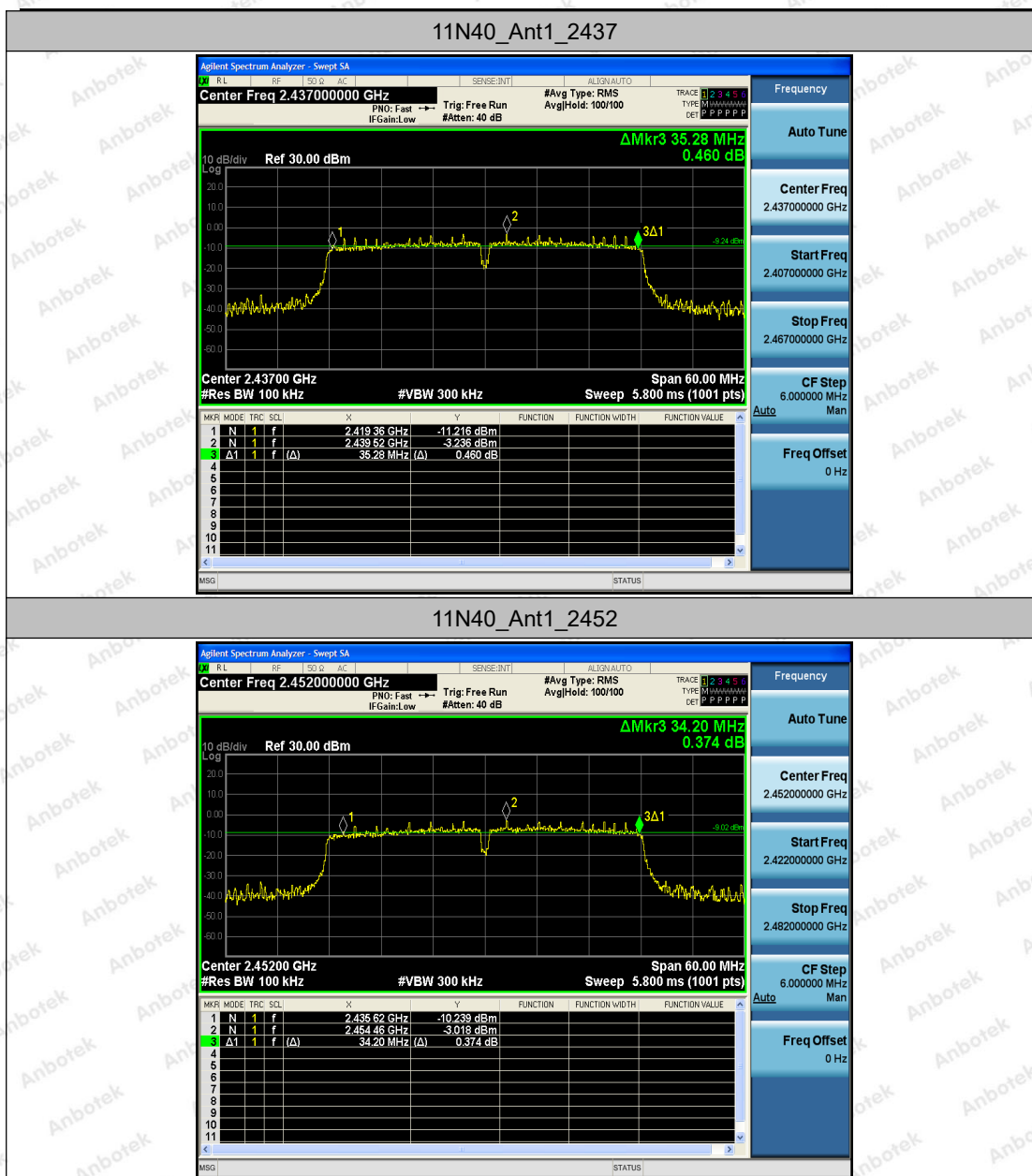


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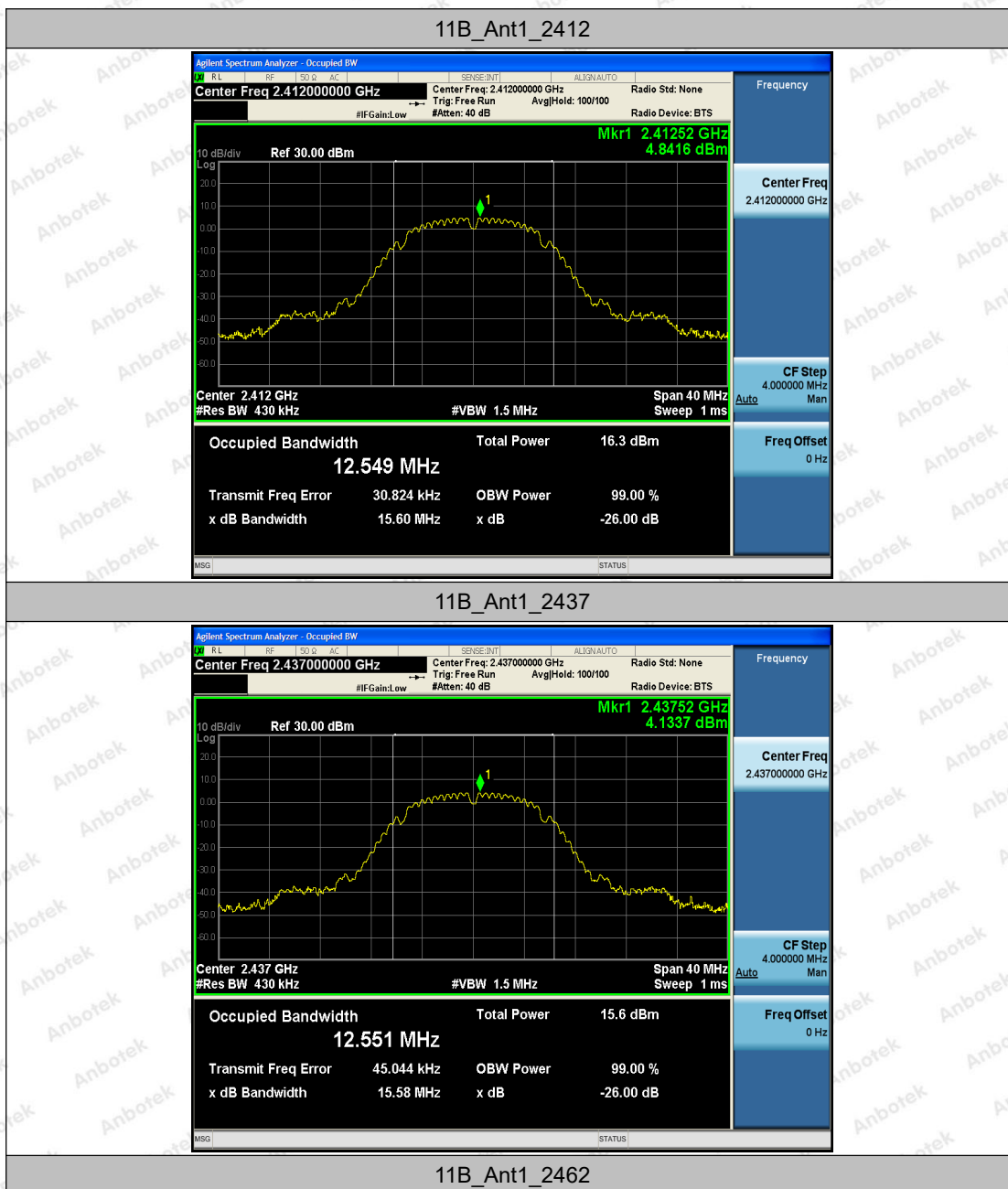


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.549	2405.756	2418.305	---	PASS
		2437	12.551	2430.770	2443.321	---	PASS
		2462	12.583	2455.789	2468.372	---	PASS
11G	Ant1	2412	16.816	2403.632	2420.448	---	PASS
		2437	16.807	2428.623	2445.430	---	PASS
		2462	16.828	2453.614	2470.442	---	PASS
11N20	Ant1	2412	17.731	2403.160	2420.891	---	PASS
		2437	17.764	2428.165	2445.929	---	PASS
		2462	17.753	2453.170	2470.923	---	PASS
11N40	Ant1	2422	35.985	2404.057	2440.042	---	PASS
		2437	36.043	2419.057	2455.100	---	PASS
		2452	35.937	2434.121	2470.058	---	PASS

Test Graphs



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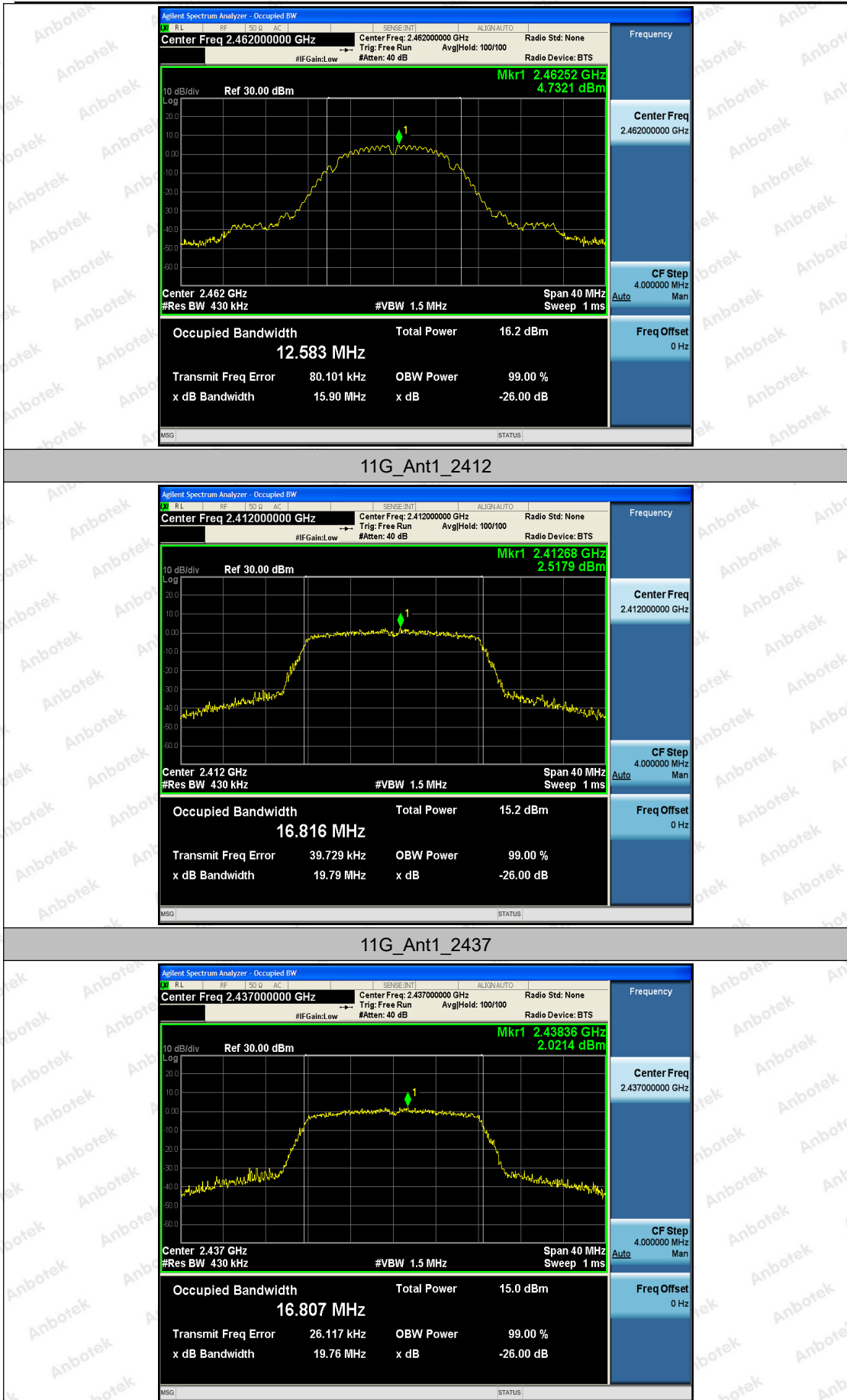
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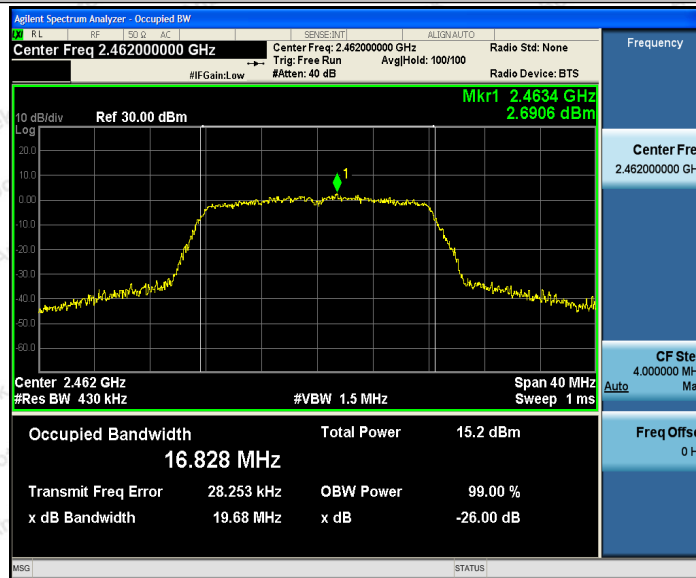
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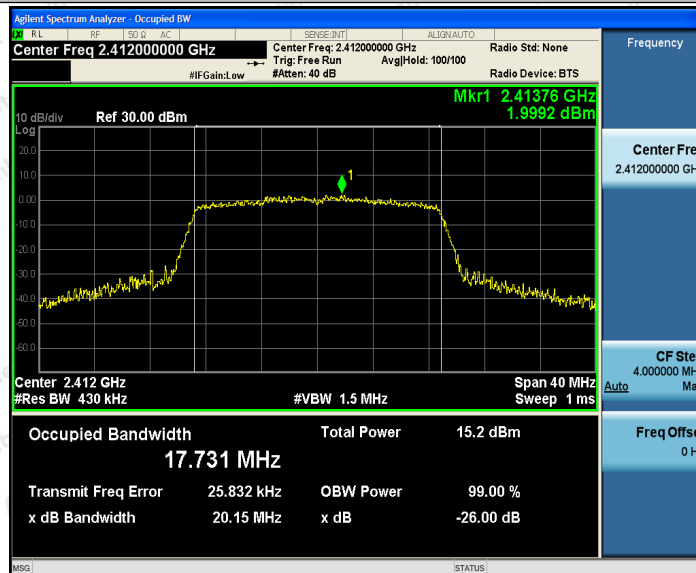
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11G_Ant1_2462



11N20_Ant1_2412



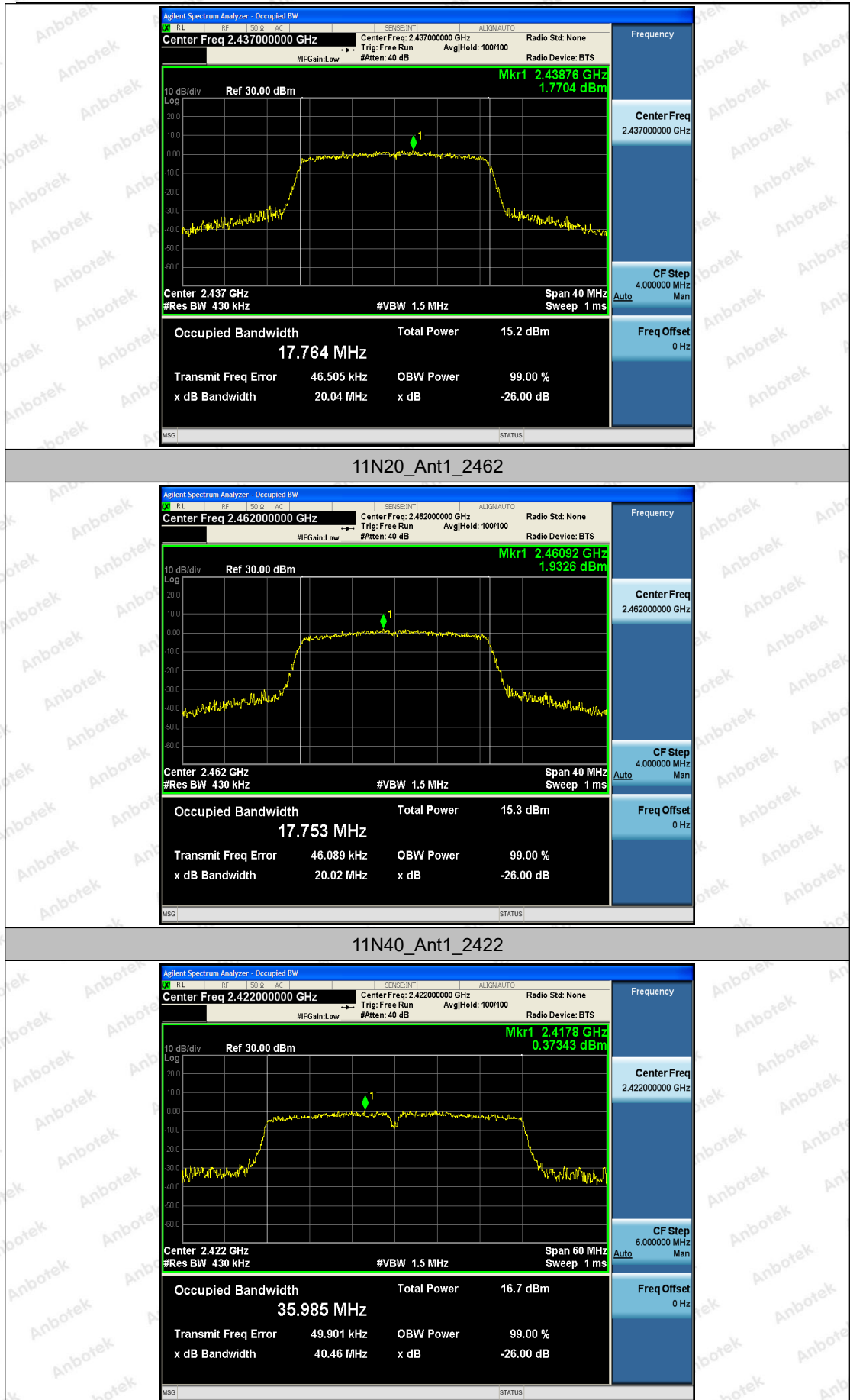
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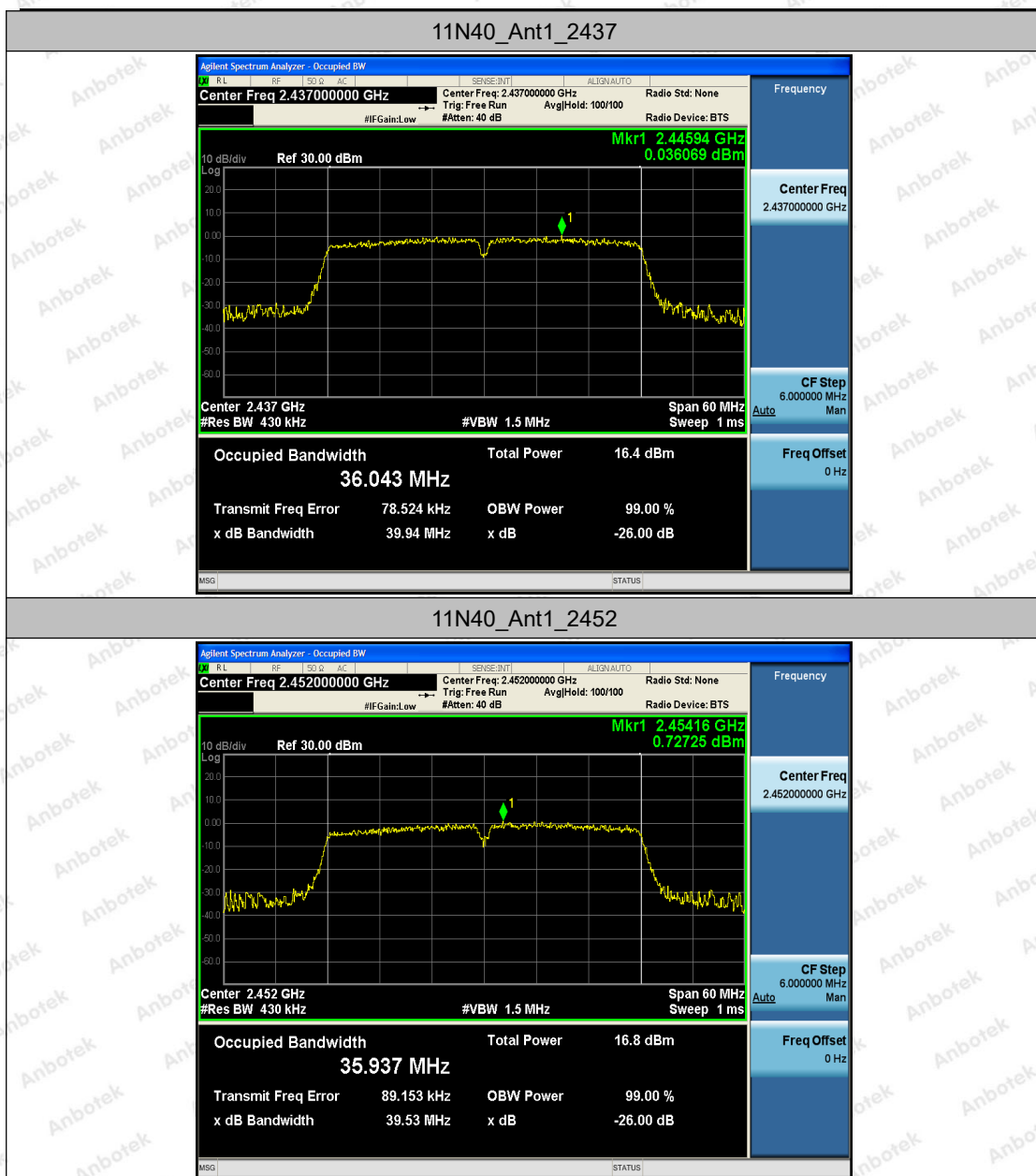


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Appendix C: Maximum conducted output power

Test Result

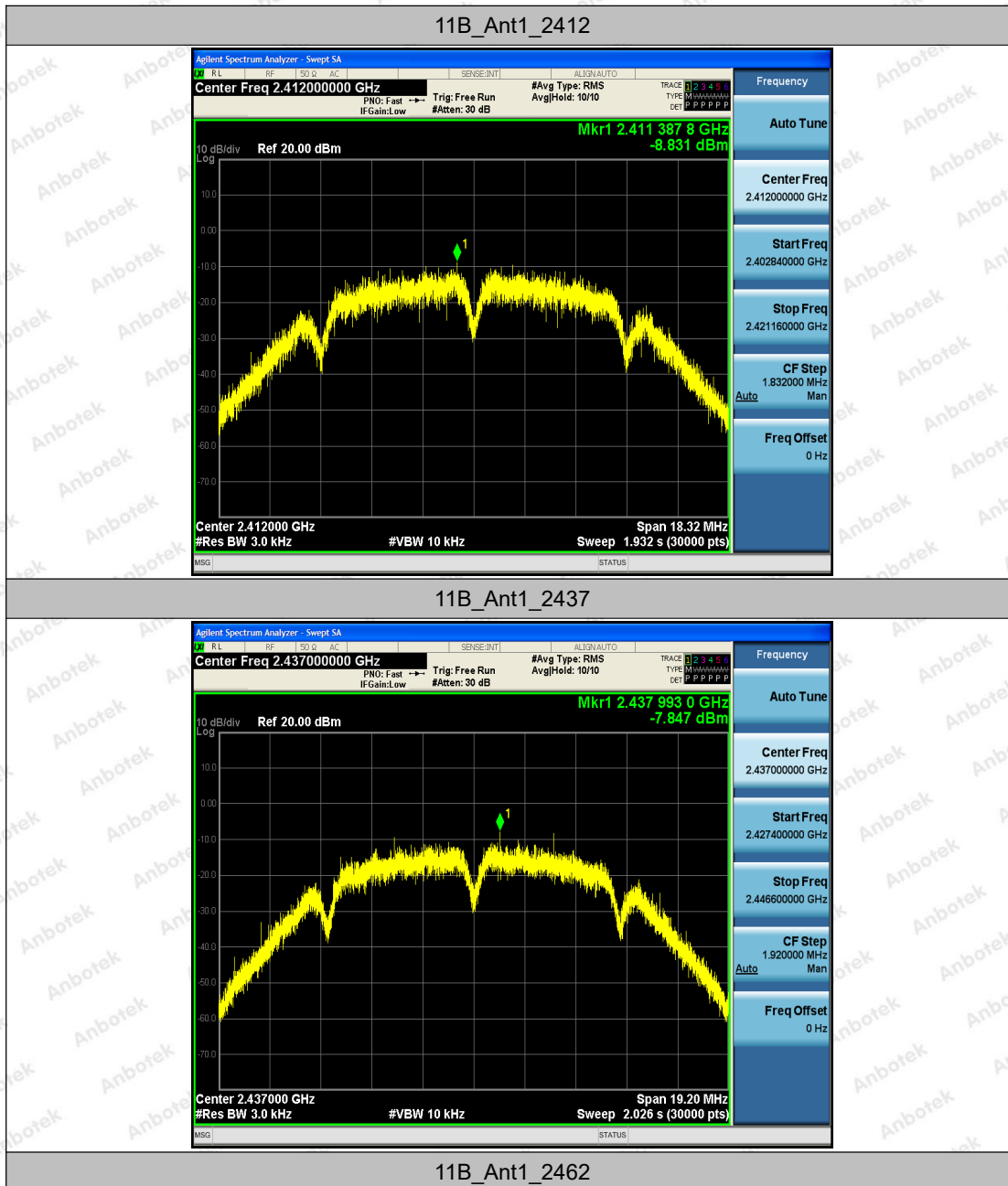
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.35	≤30	PASS
		2437	15.66	≤30	PASS
		2462	16.24	≤30	PASS
11G	Ant1	2412	16.25	≤30	PASS
		2437	16.04	≤30	PASS
		2462	16.24	≤30	PASS
11N20	Ant1	2412	16.59	≤30	PASS
		2437	16.08	≤30	PASS
		2462	16.50	≤30	PASS
11N40	Ant1	2422	15.67	≤30	PASS
		2437	15.68	≤30	PASS
		2452	15.68	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.83	≤8	PASS
		2437	-7.85	≤8	PASS
		2462	-9.06	≤8	PASS
11G	Ant1	2412	-14.03	≤8	PASS
		2437	-15.6	≤8	PASS
		2462	-14.89	≤8	PASS
11N20	Ant1	2412	-15.14	≤8	PASS
		2437	-14.69	≤8	PASS
		2462	-15.07	≤8	PASS
11N40	Ant1	2422	-17.44	≤8	PASS
		2437	-17.14	≤8	PASS
		2452	-16.55	≤8	PASS

Test Graphs

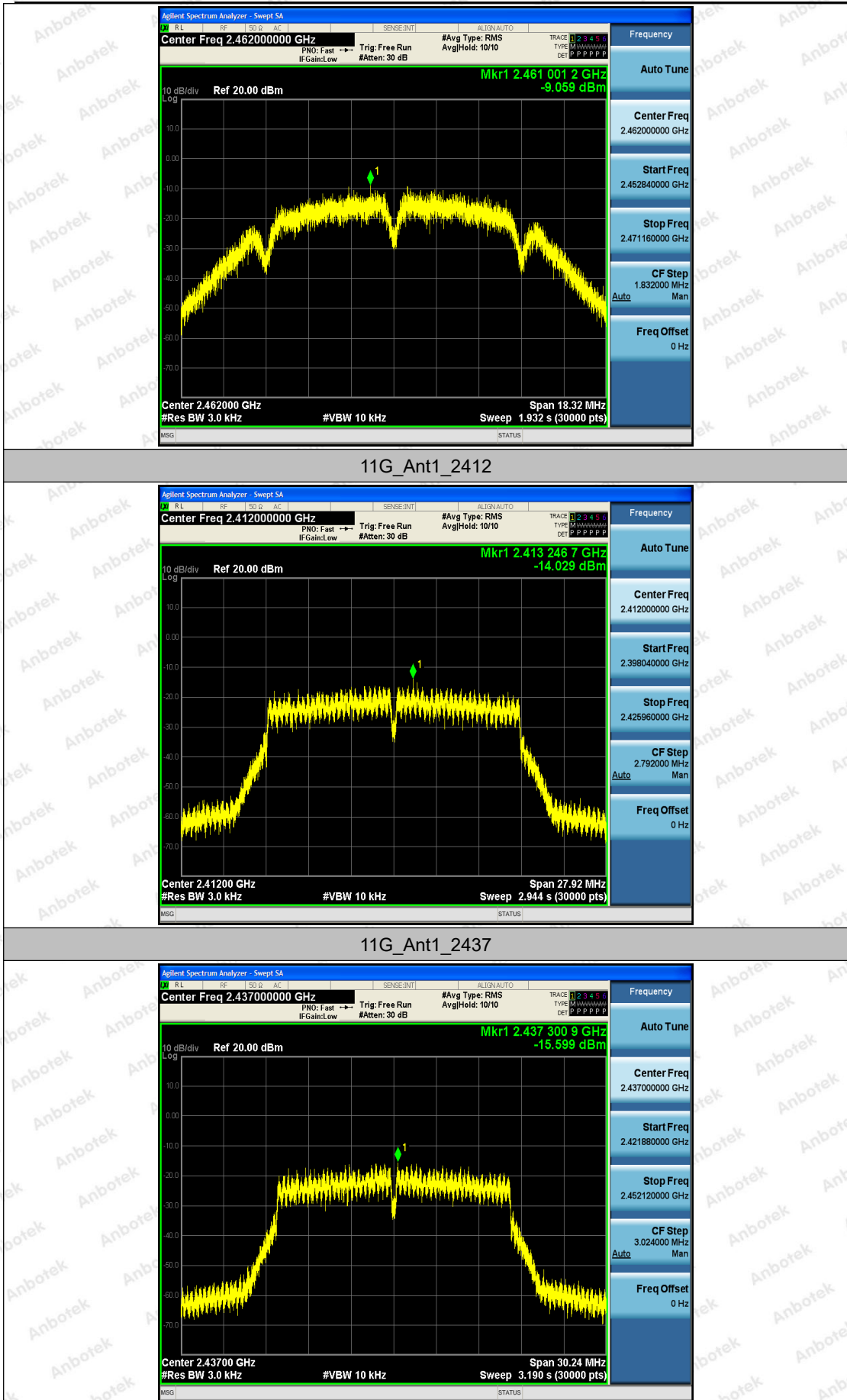


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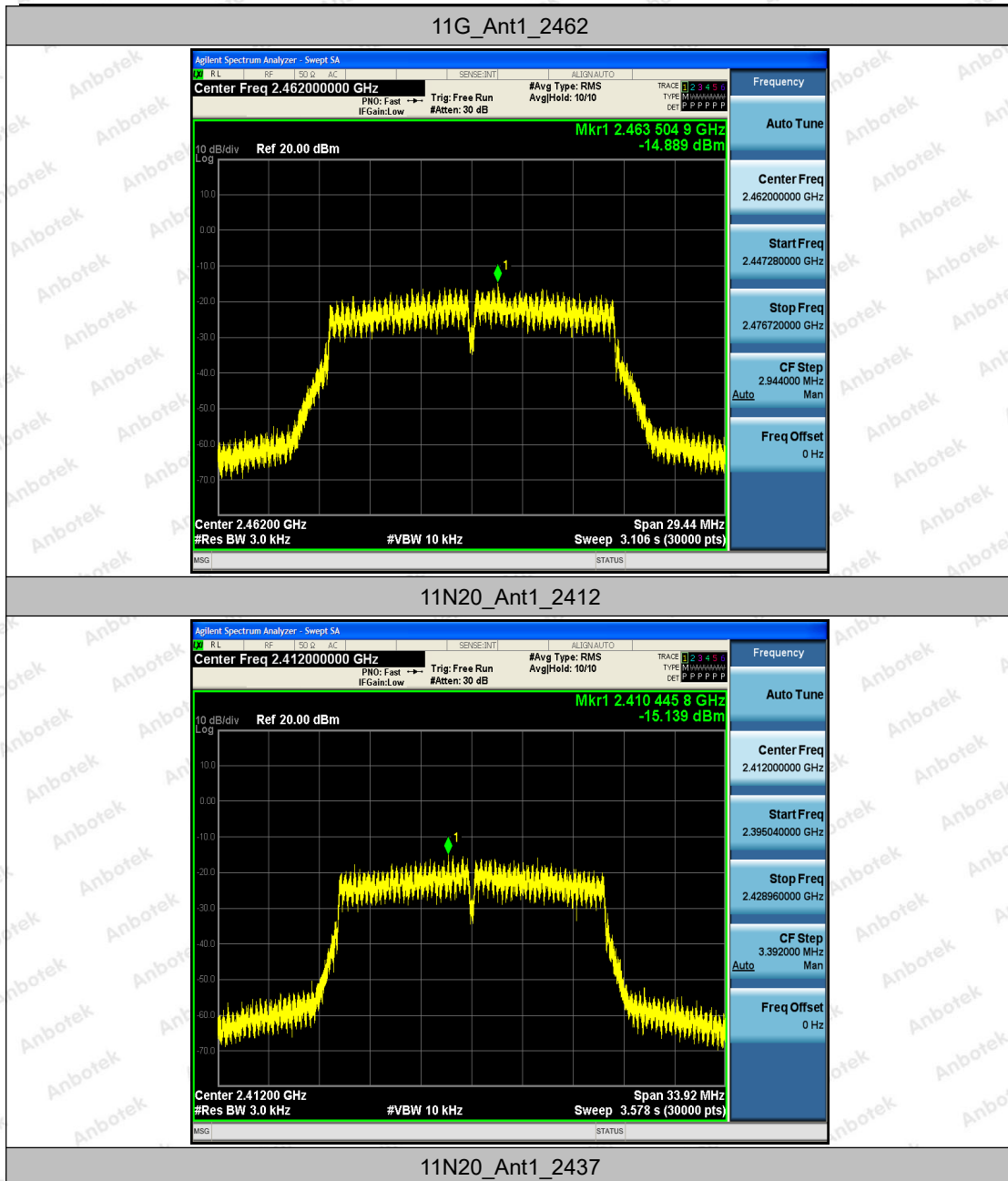


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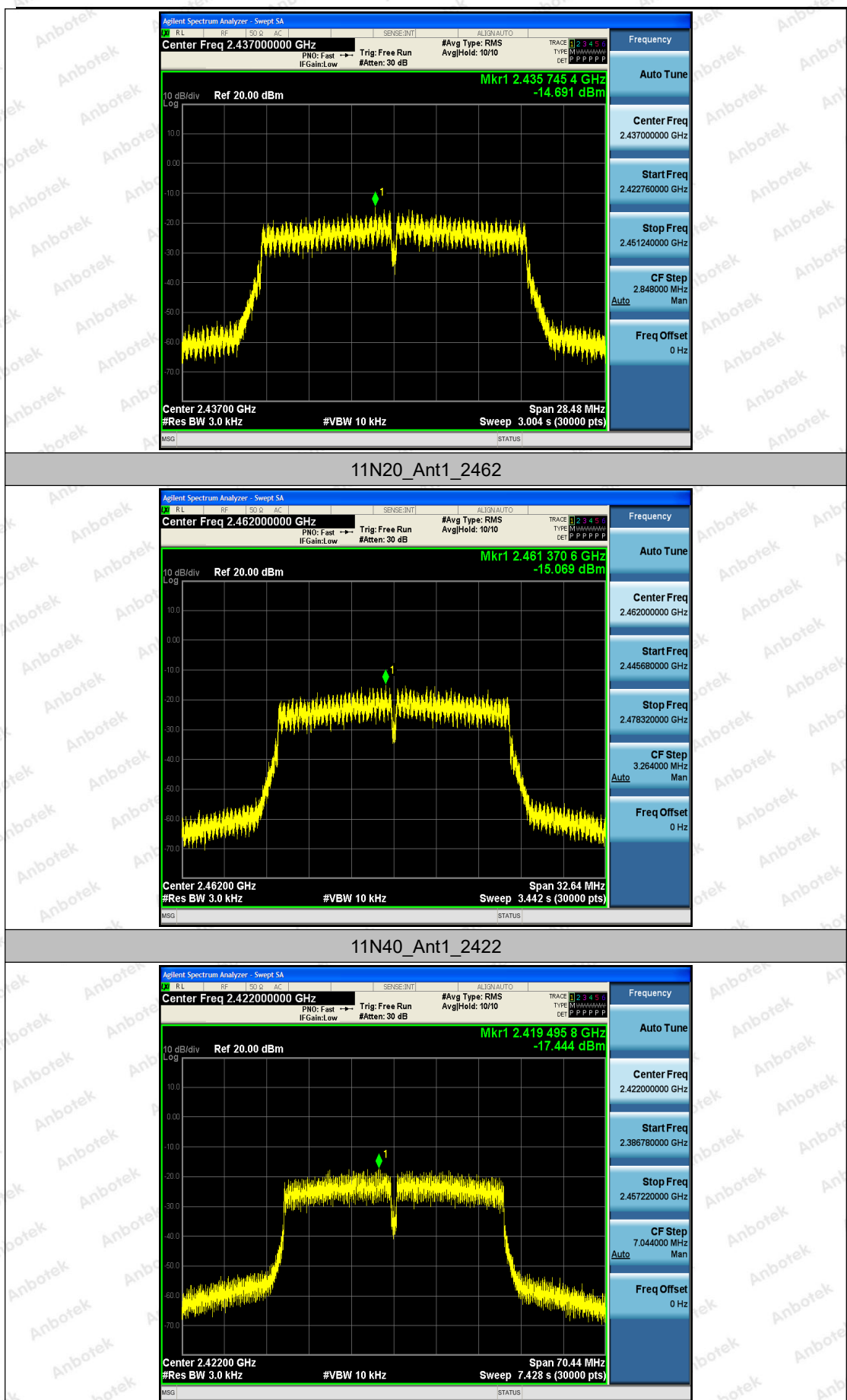


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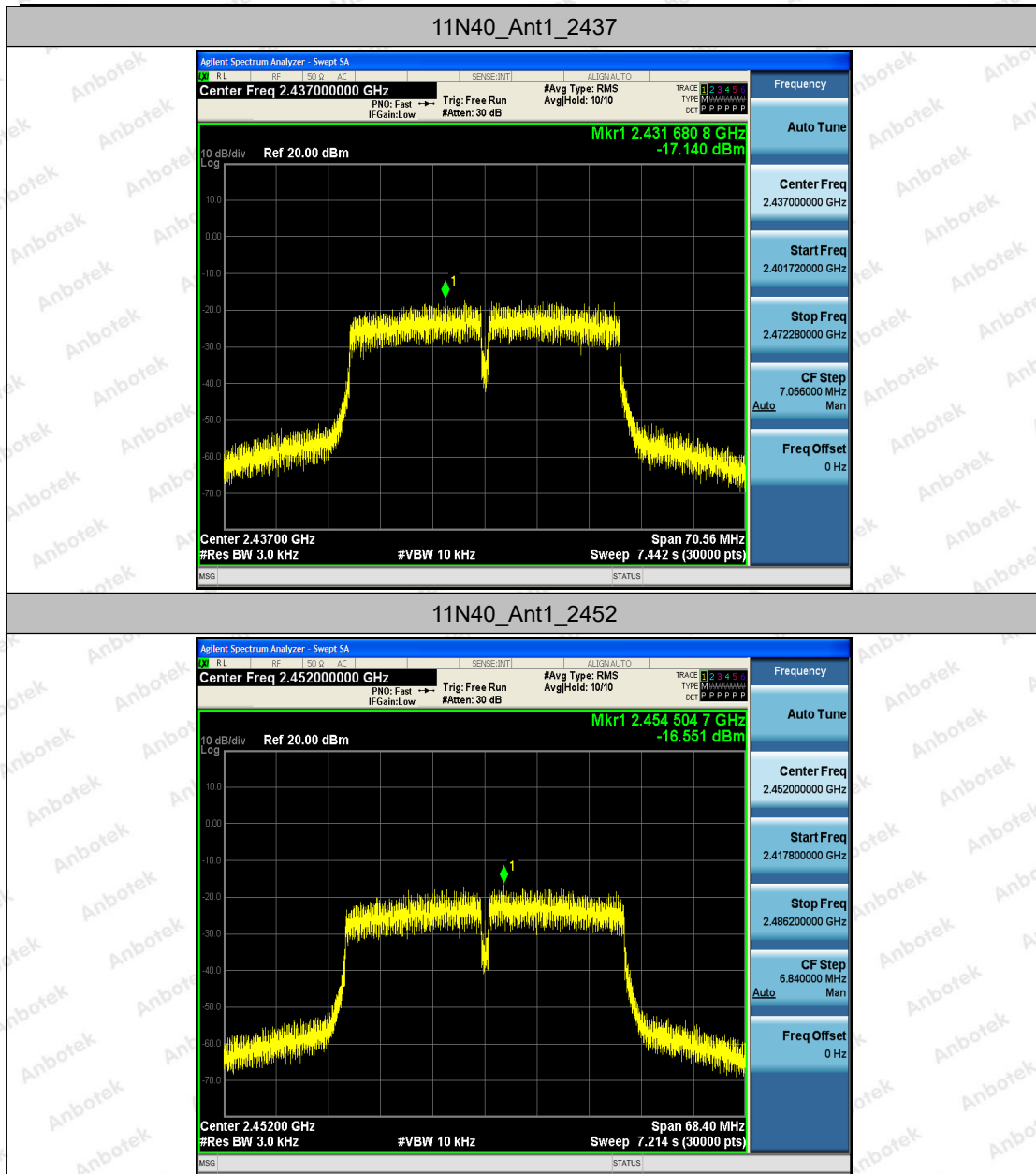


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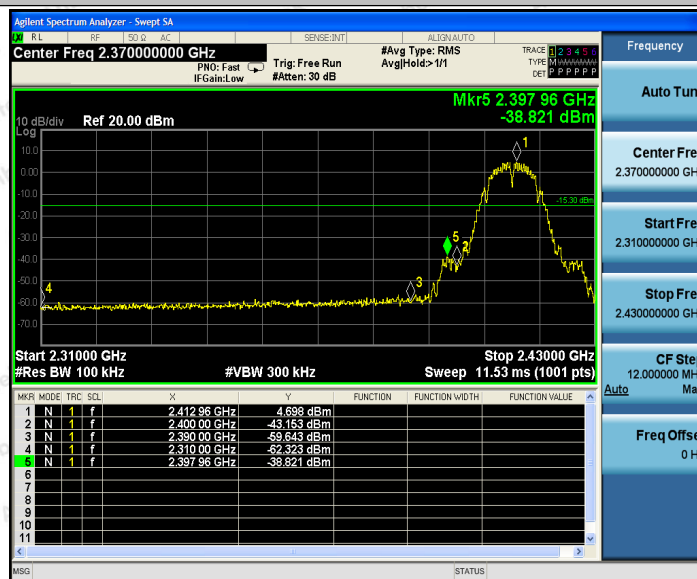
Appendix E: Band edge measurements

Test Result

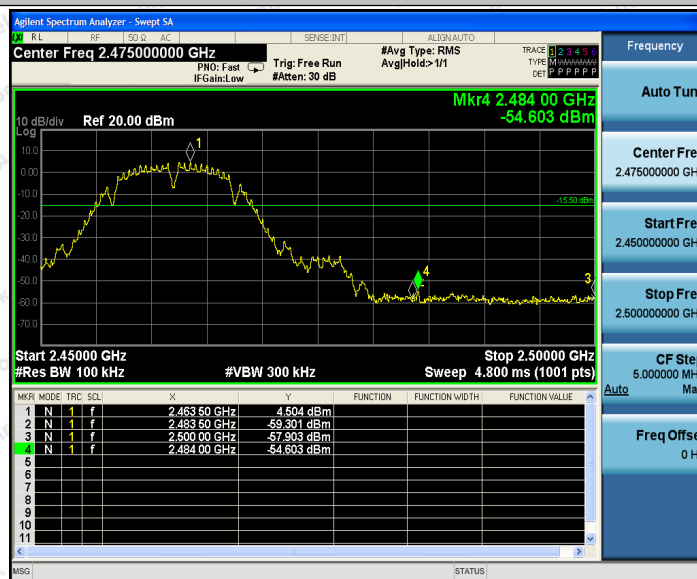
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.70	-38.82	≤-15.3	PASS
		High	2462	4.50	-54.6	≤-15.5	PASS
11G	Ant1	Low	2412	-2.44	-39.24	≤-22.44	PASS
		High	2462	-1.59	-51.07	≤-21.59	PASS
11N20	Ant1	Low	2412	-2.10	-37.57	≤-22.1	PASS
		High	2462	-0.43	-50.03	≤-20.43	PASS
11N40	Ant1	Low	2422	-3.37	-34.08	≤-23.37	PASS
		High	2452	-2.86	-36.16	≤-22.86	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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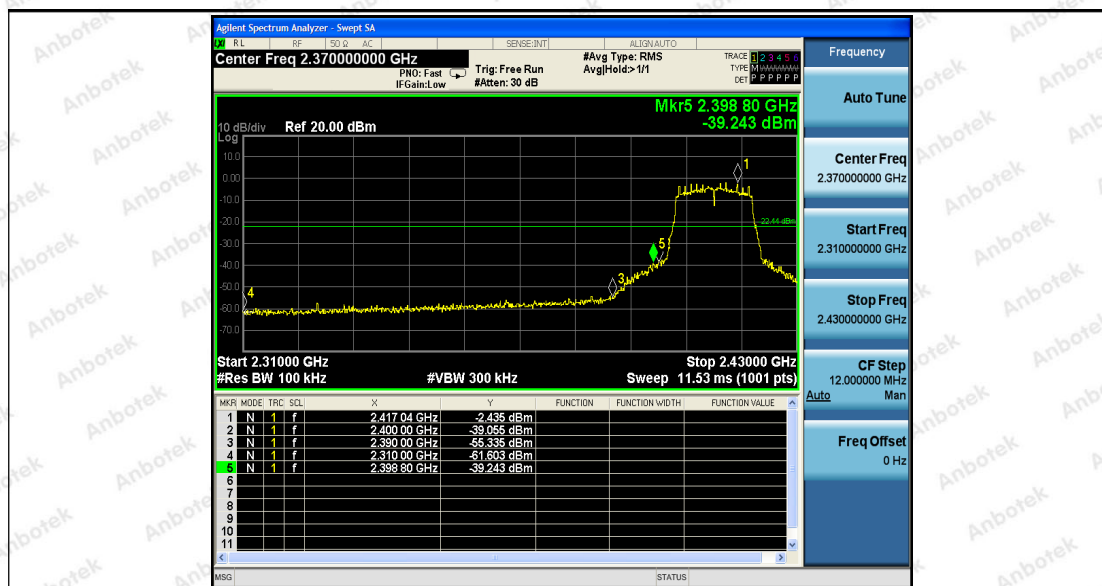
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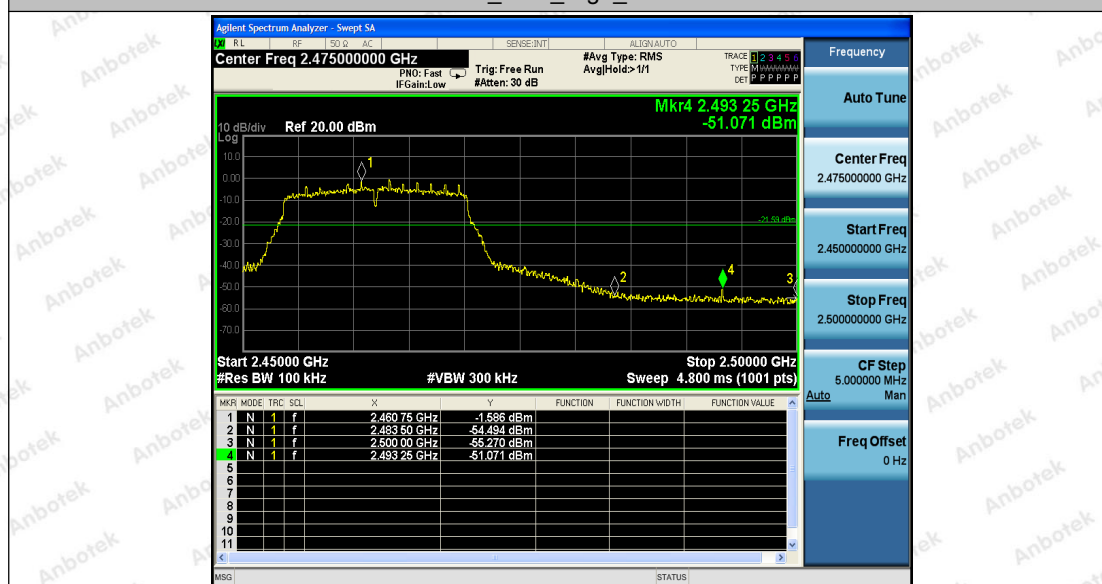
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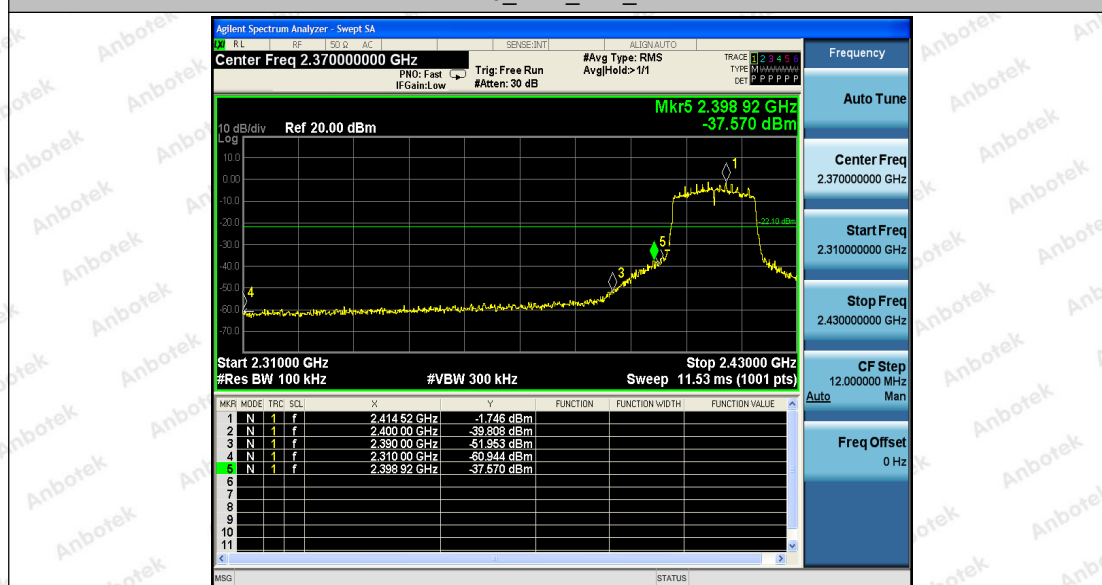
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11G_Ant1_High_2462



11N20_Ant1_Low_2412

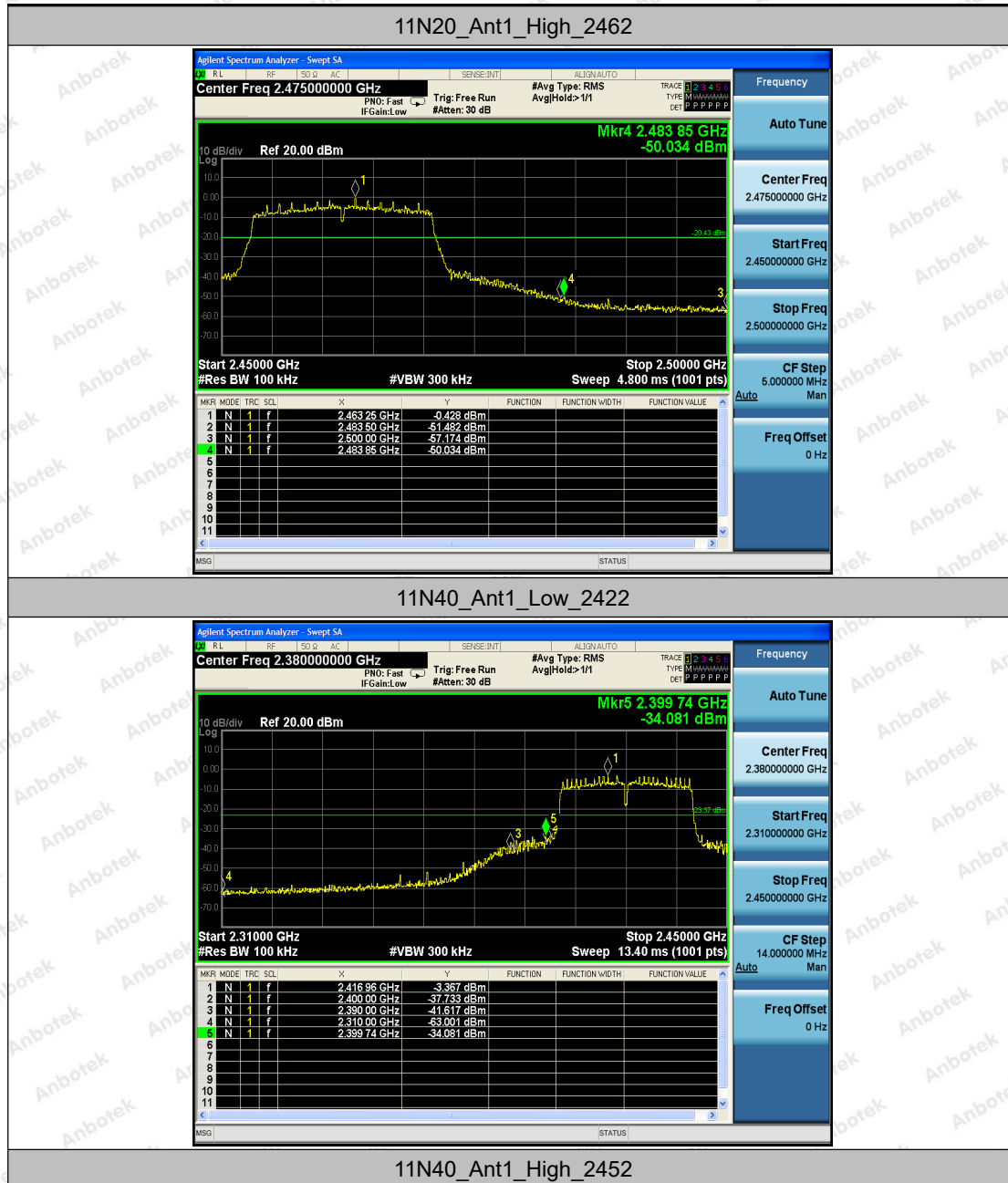


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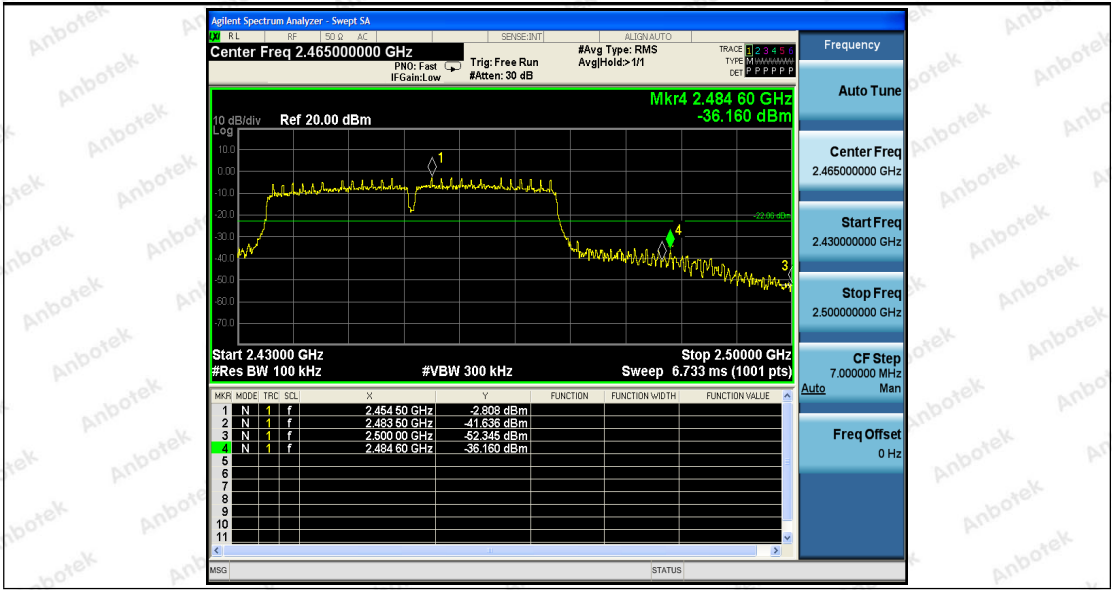


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-69.72	≤-16.03	PASS
			1000~26500	3.97	-48.6	≤-16.03	PASS
		2437	Reference	4.18	4.18	---	PASS
			30~1000	4.18	-70.39	≤-15.82	PASS
			1000~26500	4.18	-50.85	≤-15.82	PASS
		2462	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-70.17	≤-16.33	PASS
			1000~26500	3.68	-53.07	≤-16.33	PASS
11G	Ant1	2412	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-70.65	≤-21.21	PASS
			1000~26500	-1.21	-55.64	≤-21.21	PASS
		2437	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-70.15	≤-20.96	PASS
			1000~26500	-0.96	-55.78	≤-20.96	PASS
		2462	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-70.76	≤-21.73	PASS
			1000~26500	-1.73	-56.25	≤-21.73	PASS
11N20	Ant1	2412	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-70.18	≤-21.18	PASS
			1000~26500	-1.18	-55.66	≤-21.18	PASS
		2437	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-70.52	≤-21.29	PASS
			1000~26500	-1.29	-55.33	≤-21.29	PASS
		2462	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-70.58	≤-21.83	PASS
			1000~26500	-1.83	-55.88	≤-21.83	PASS
11N40	Ant1	2422	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-70.48	≤-23.14	PASS
			1000~26500	-3.14	-55.51	≤-23.14	PASS
		2437	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-70.45	≤-23.11	PASS
			1000~26500	-3.11	-55.46	≤-23.11	PASS
		2452	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-70.19	≤-22.9	PASS
			1000~26500	-2.90	-55.65	≤-22.9	PASS

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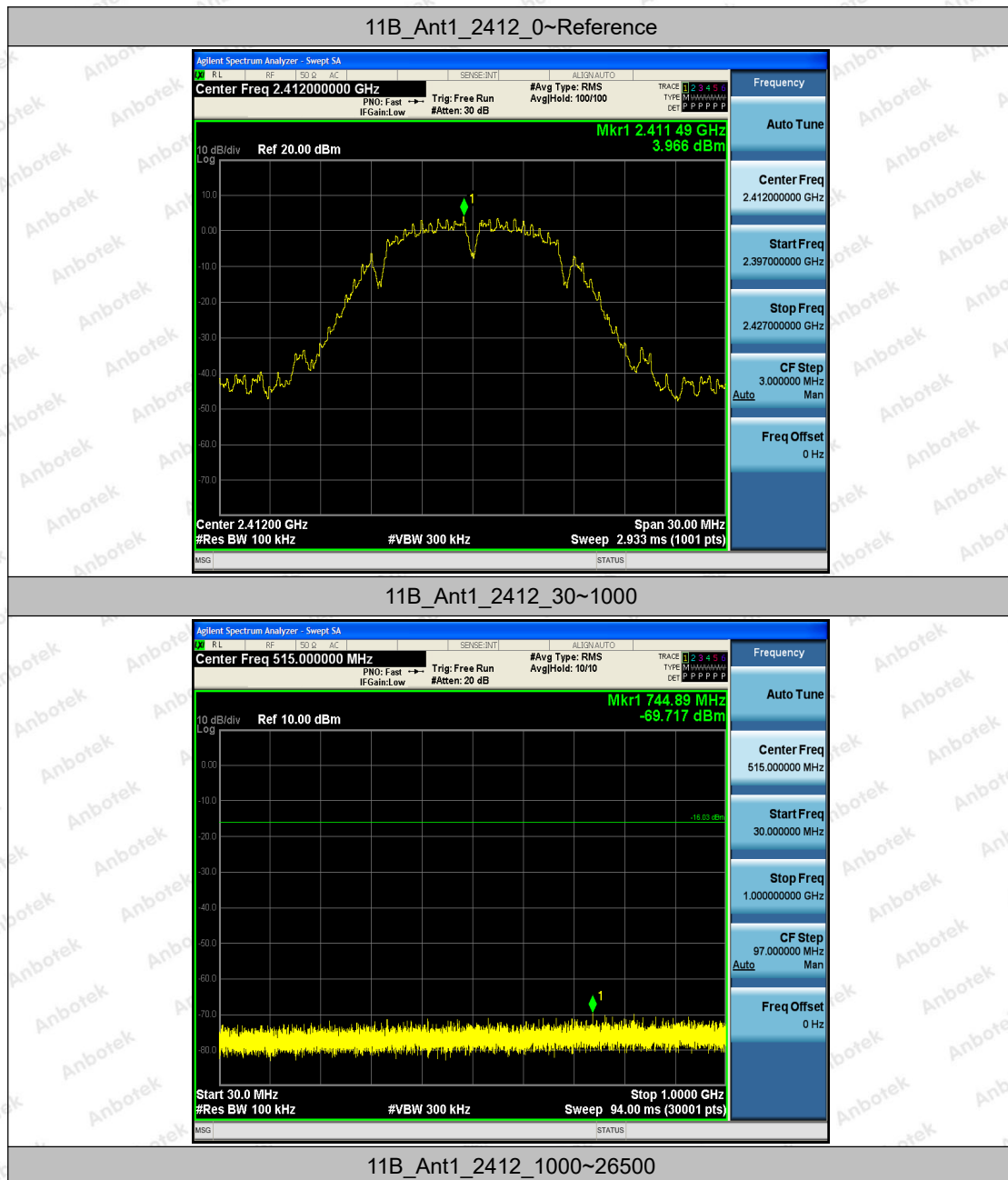


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Test Graphs



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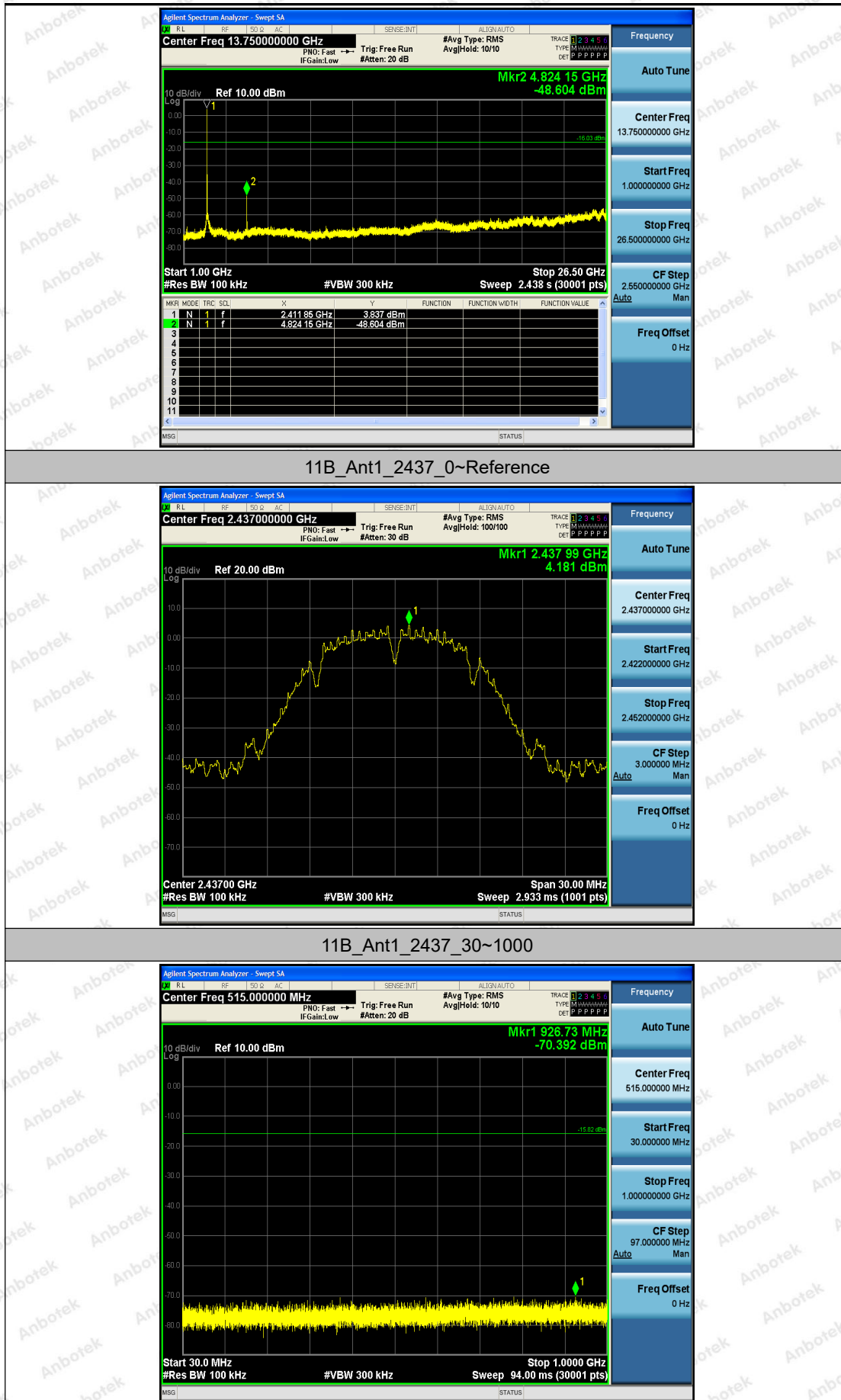
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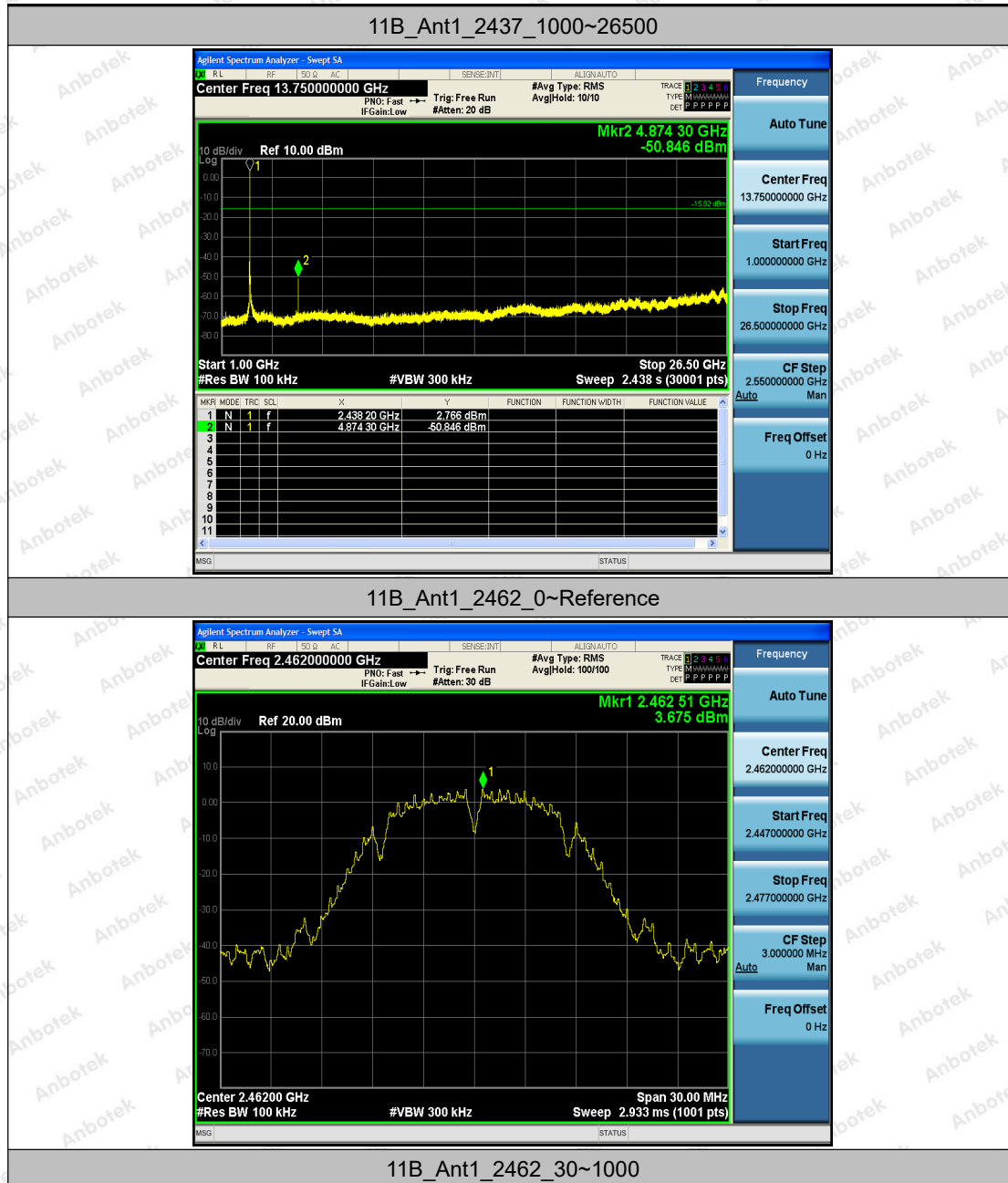


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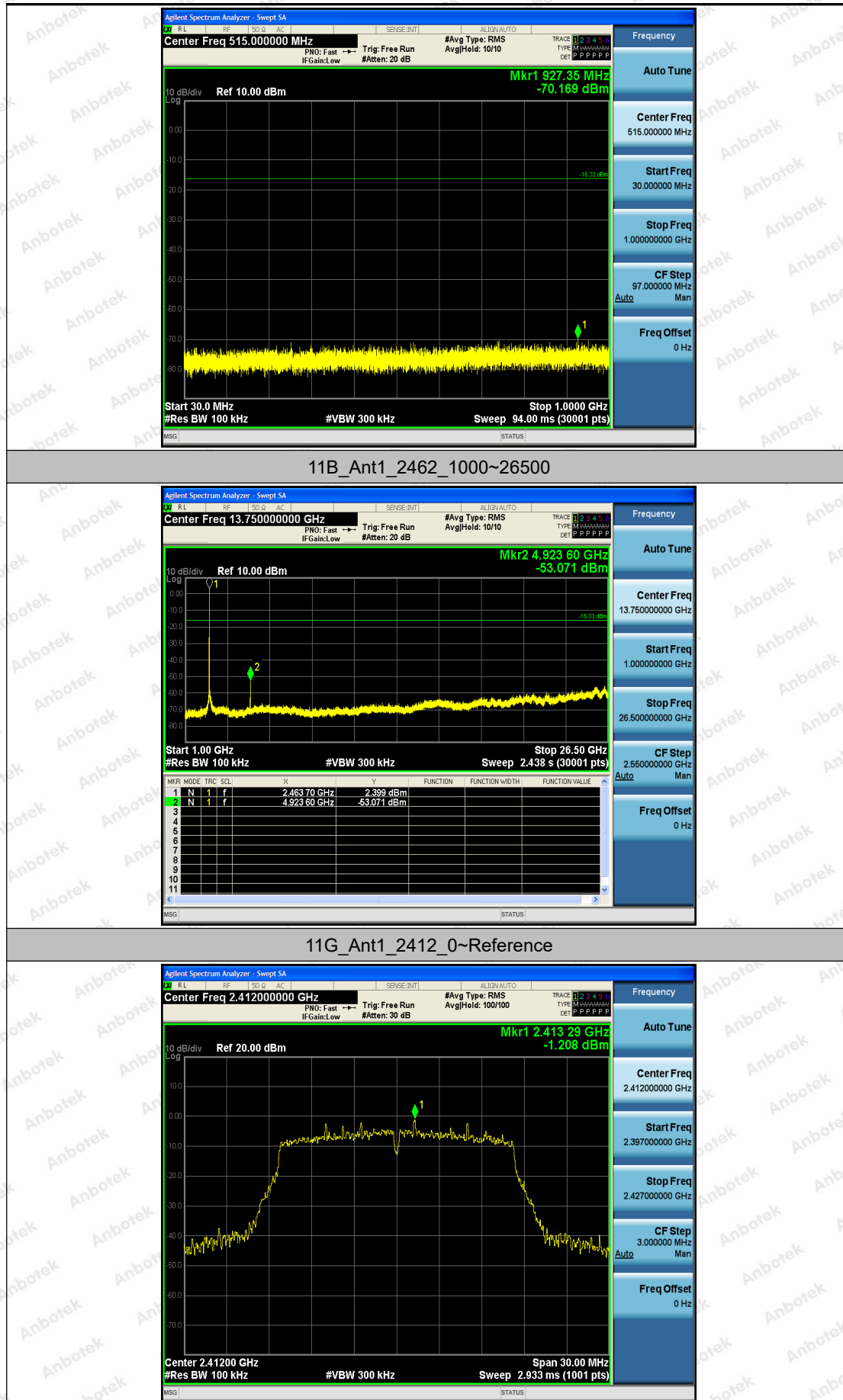


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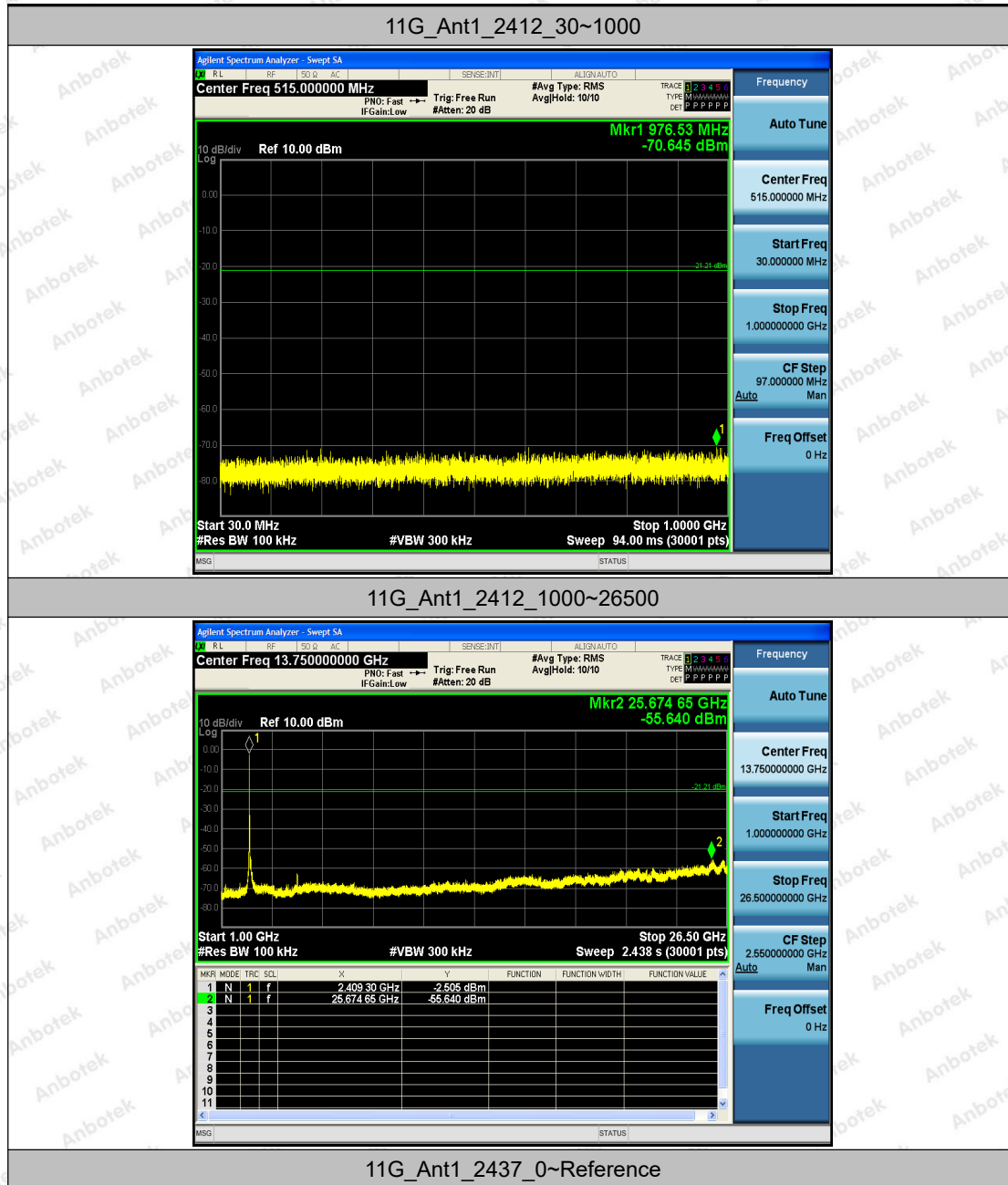


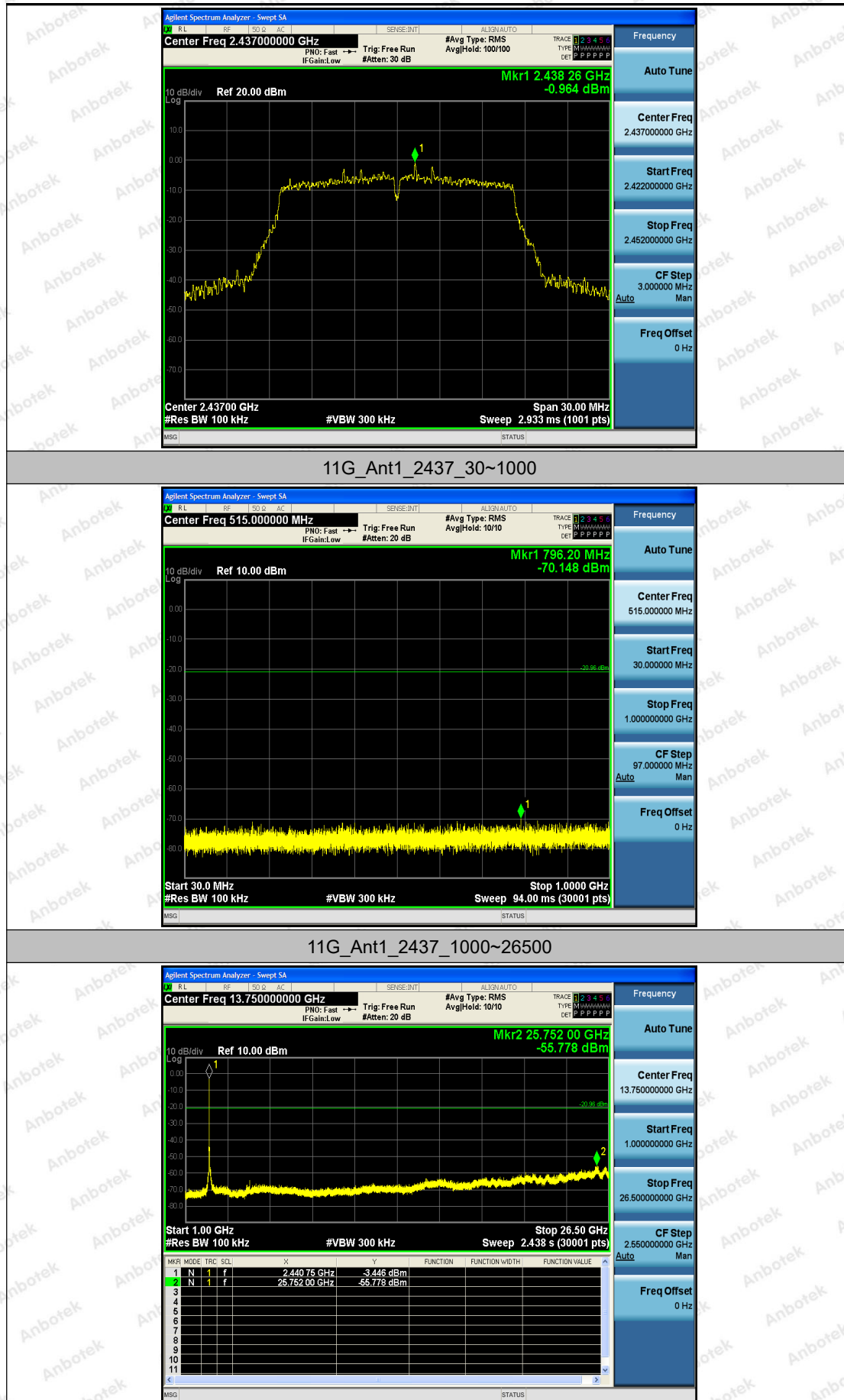
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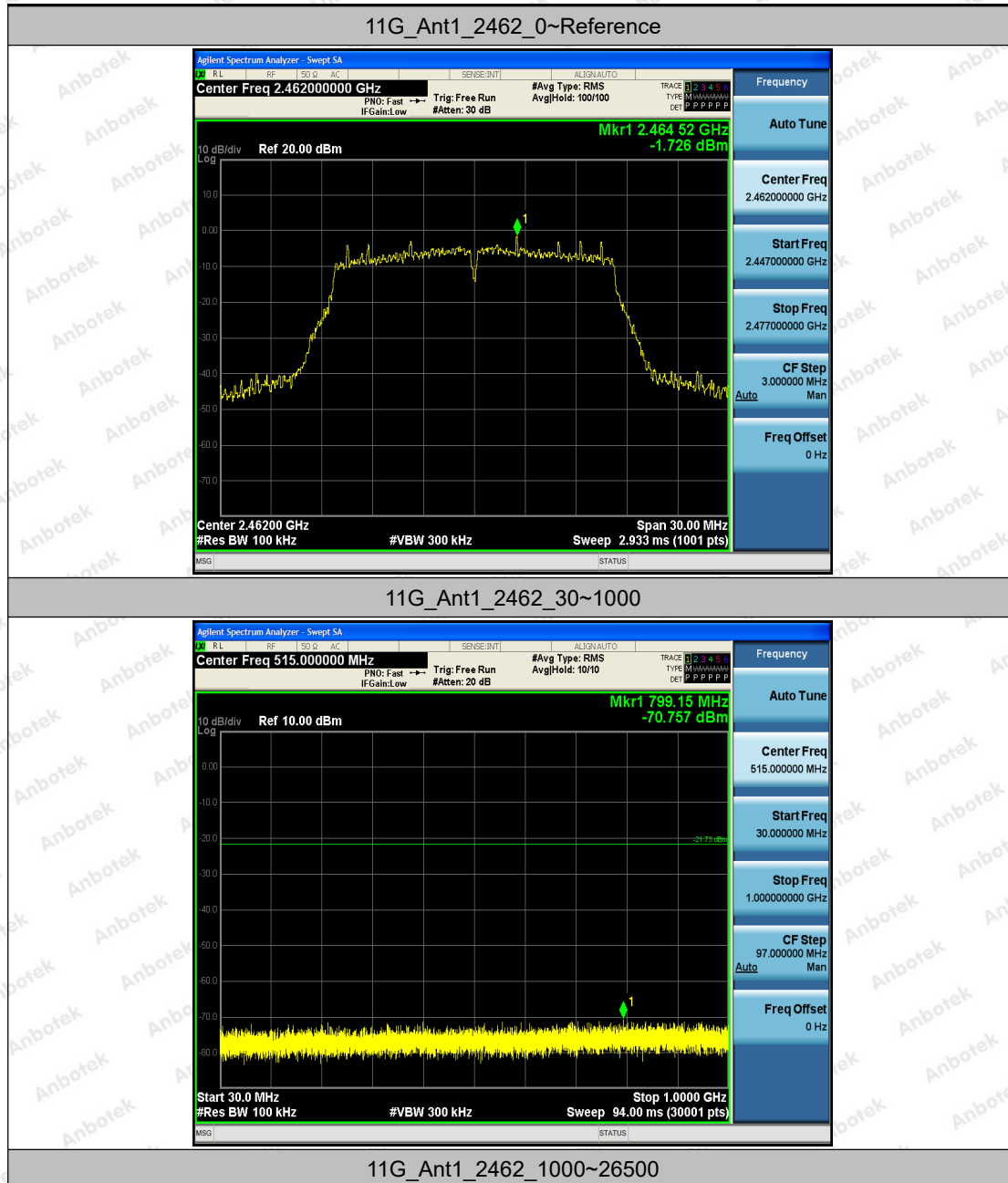


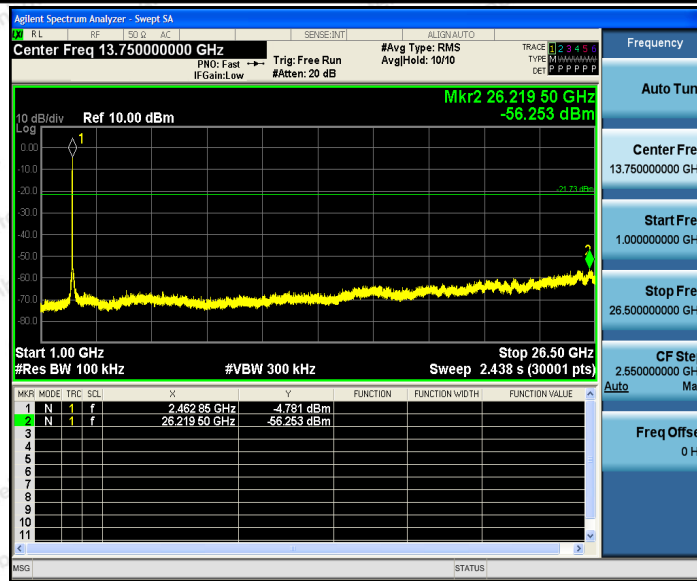
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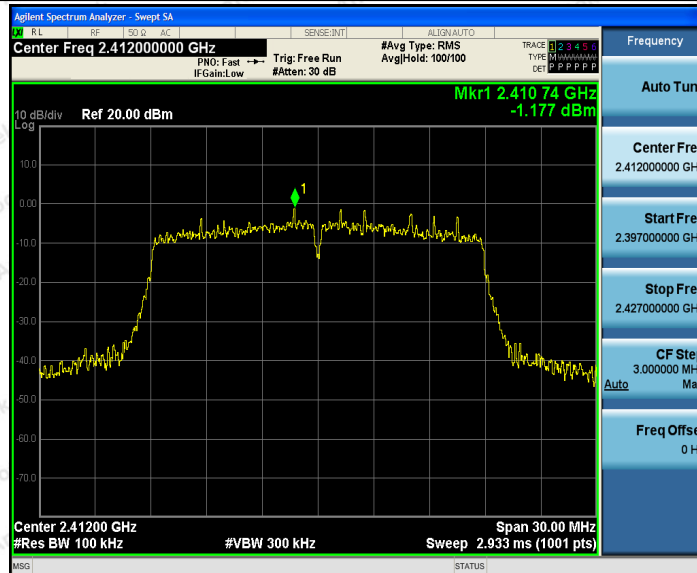
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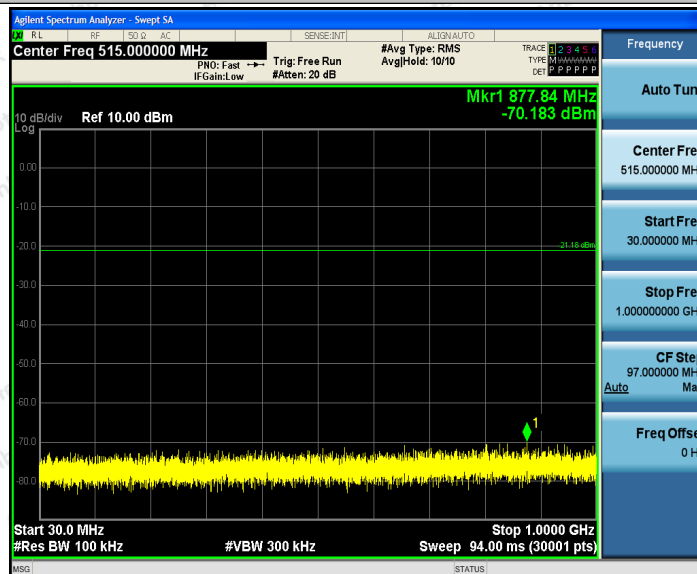




11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000



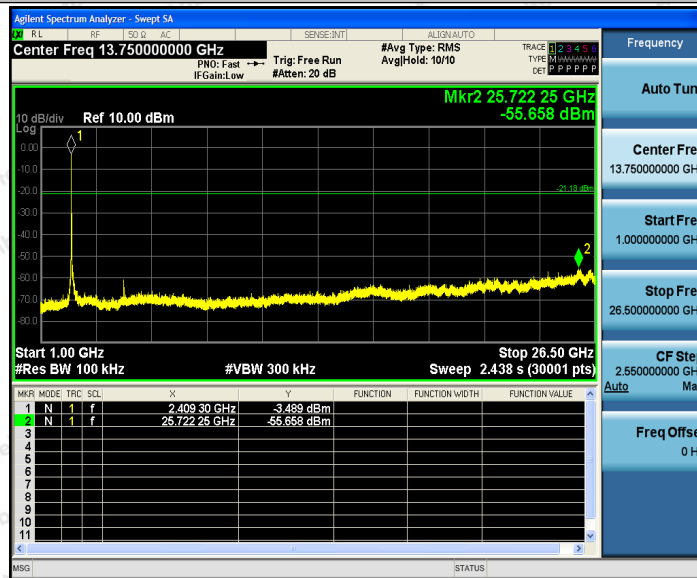
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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



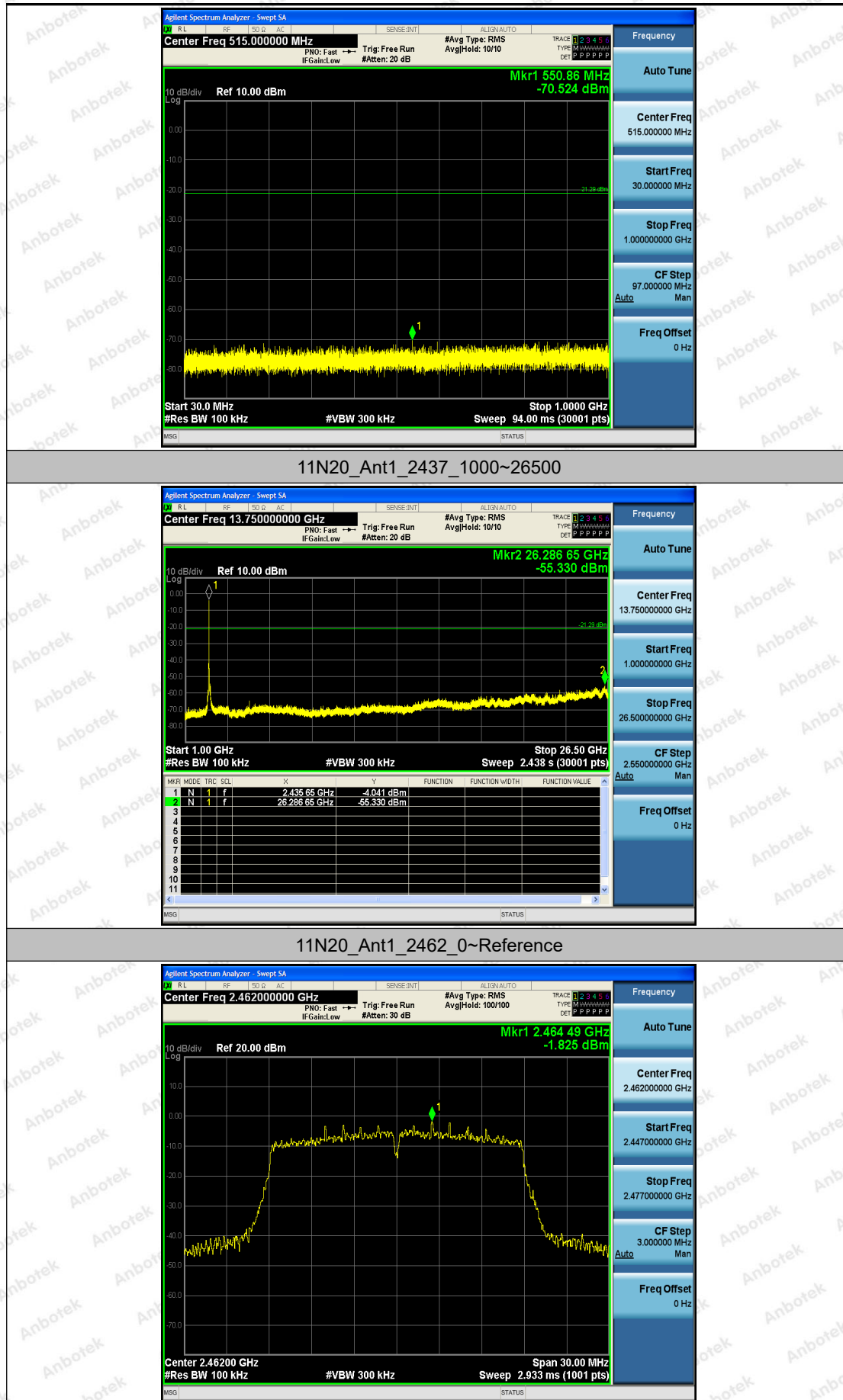
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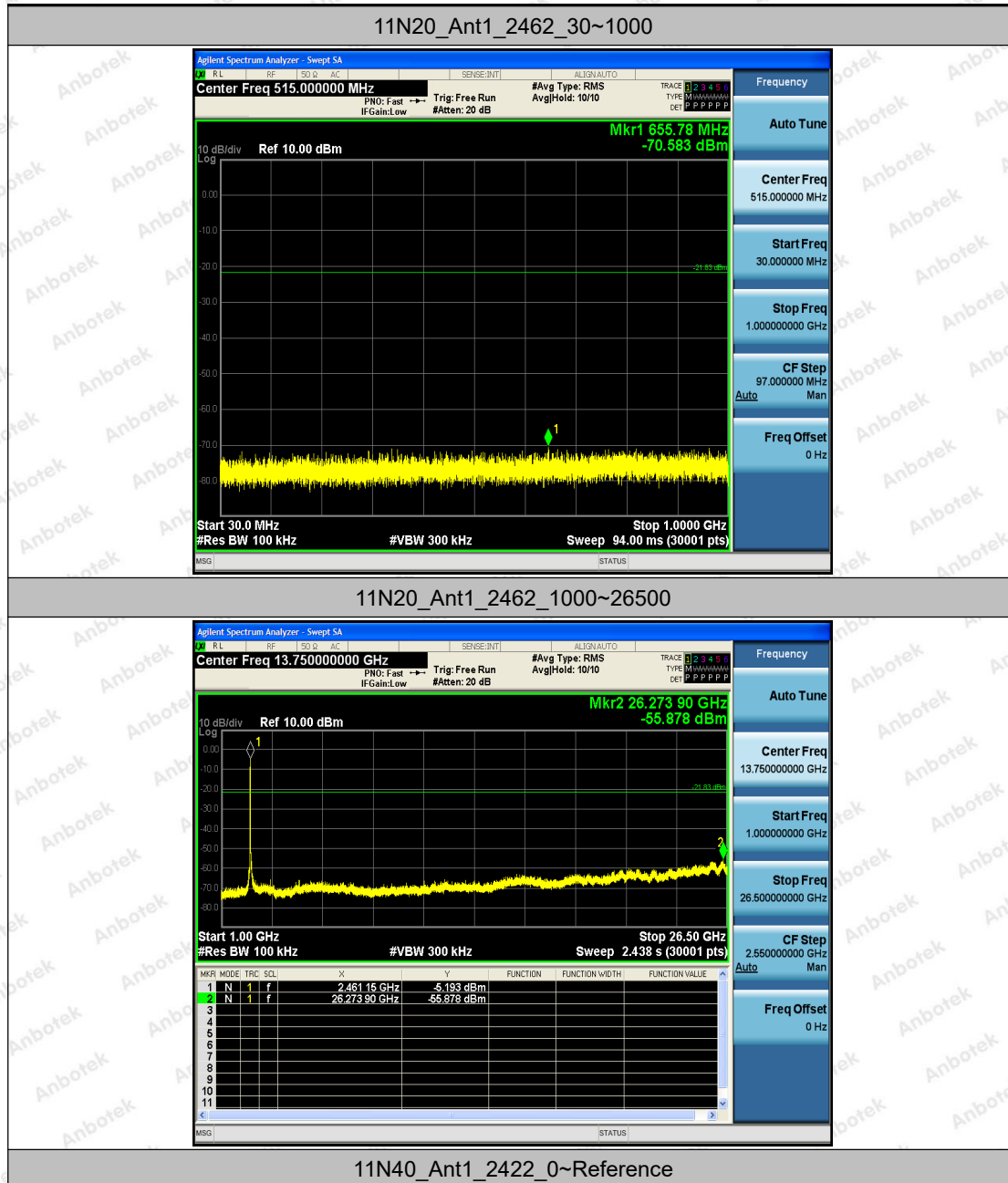


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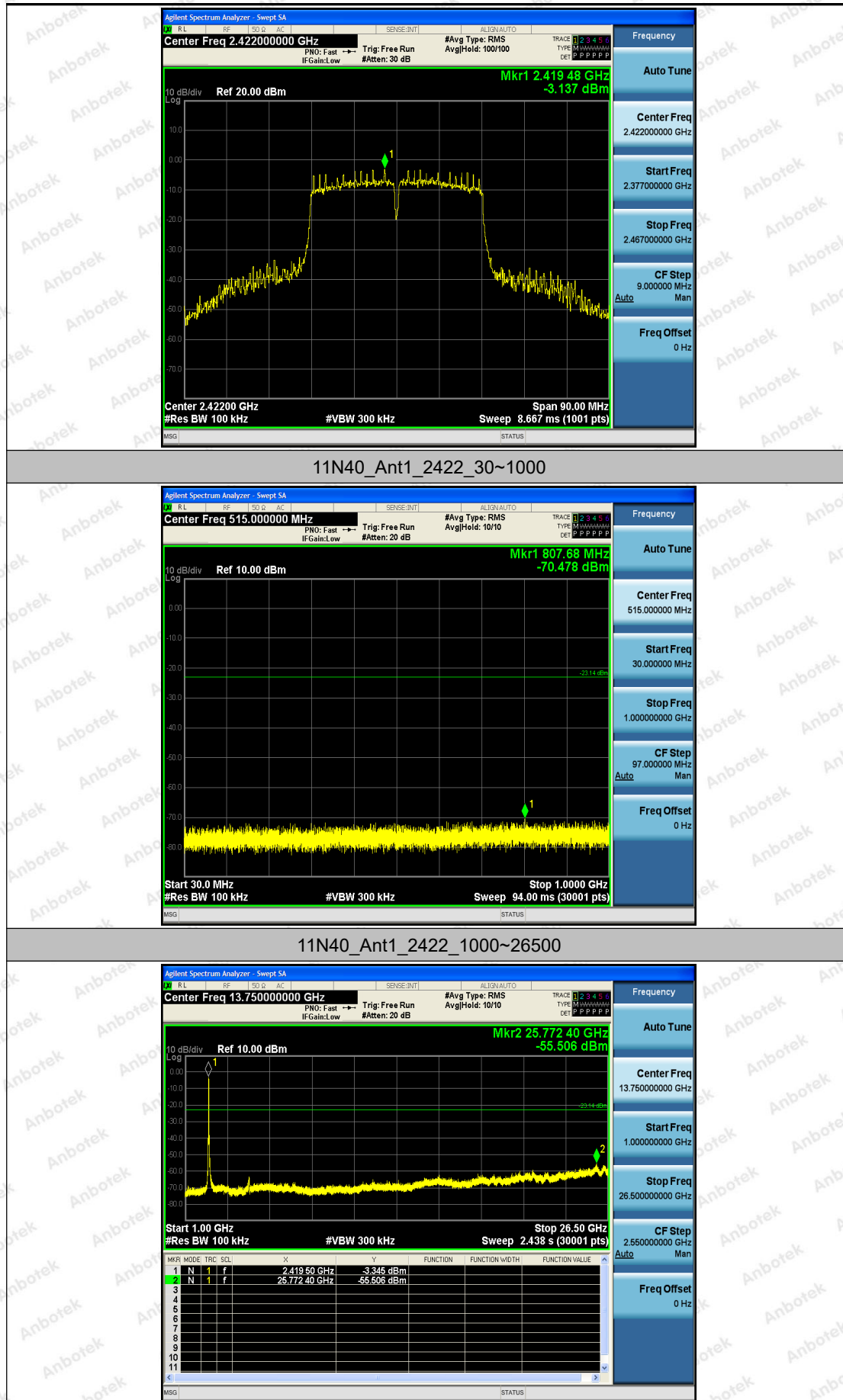


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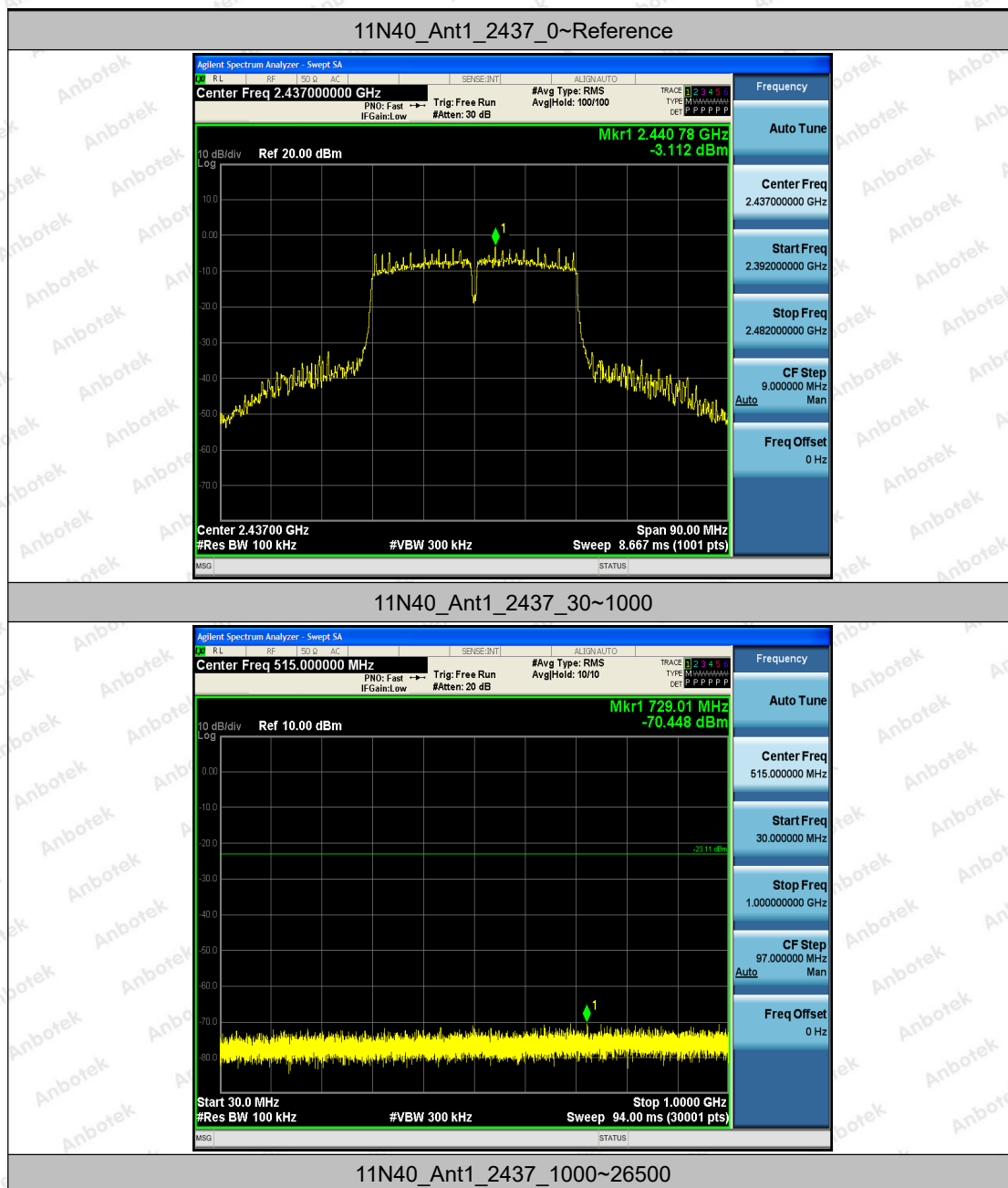


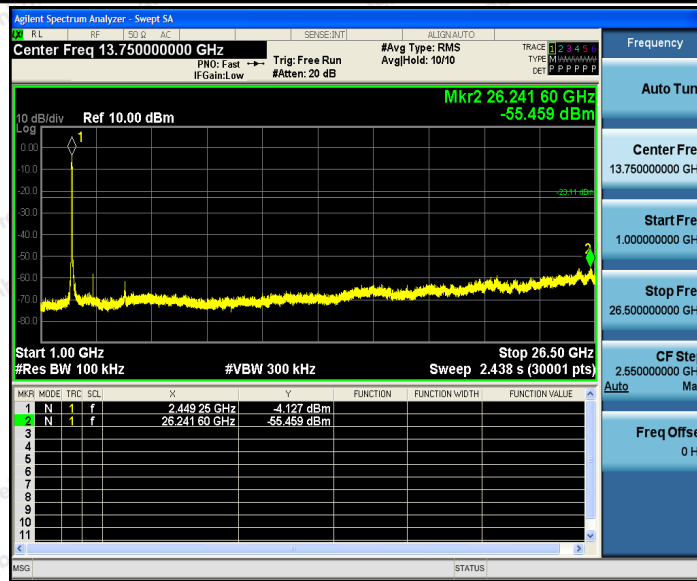
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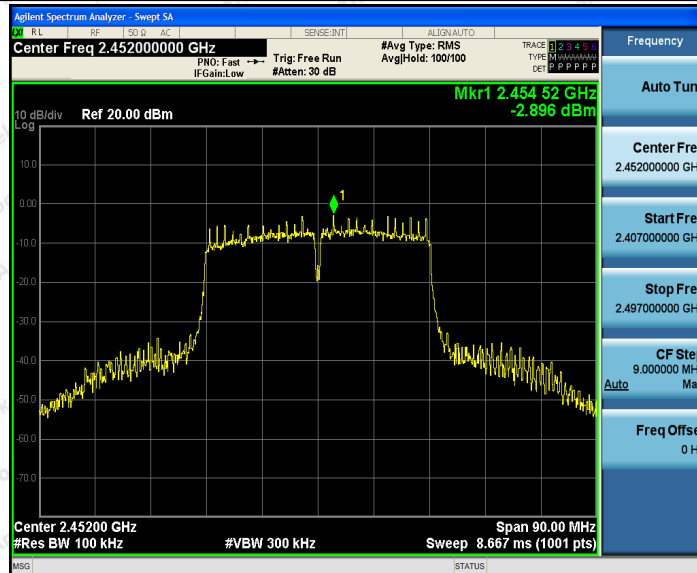
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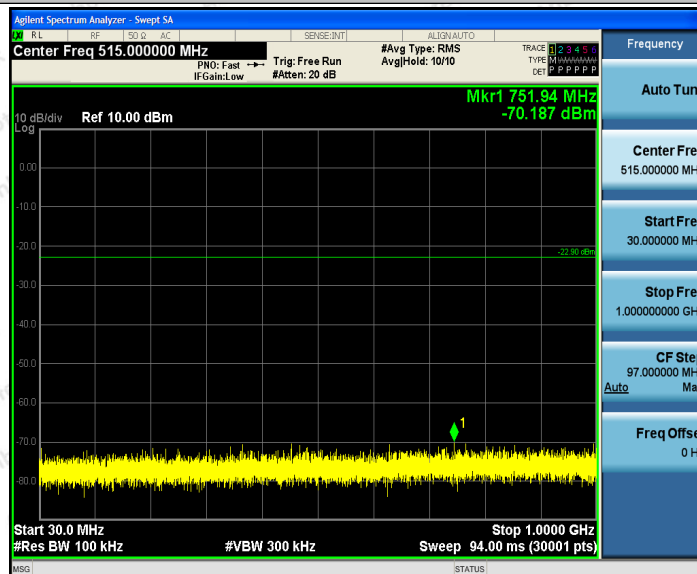




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11N40_Ant1_2452_30~1000

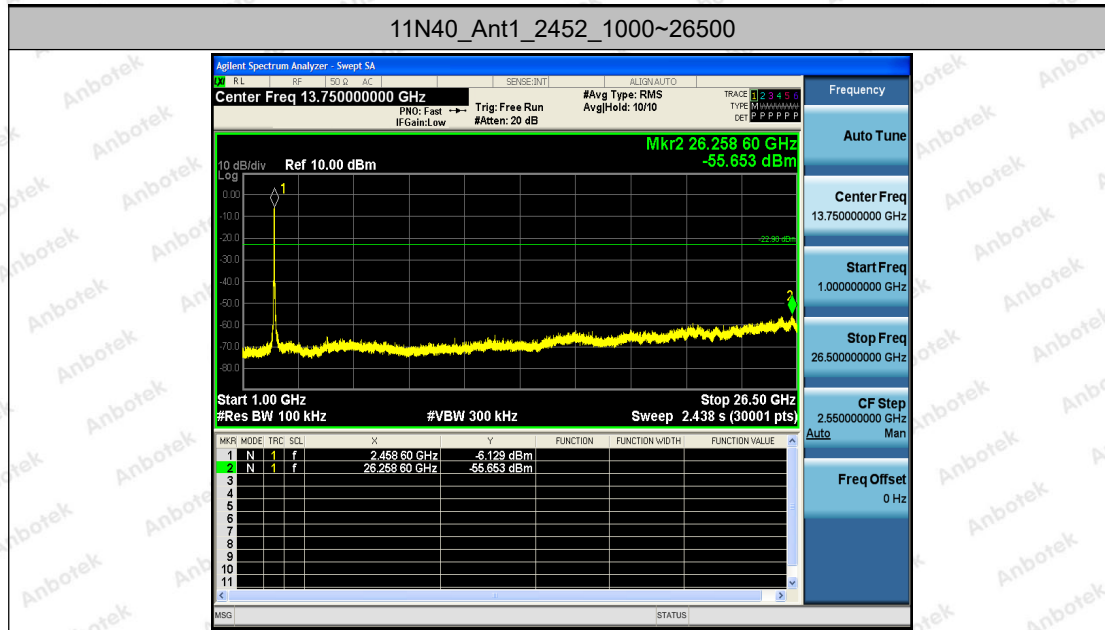


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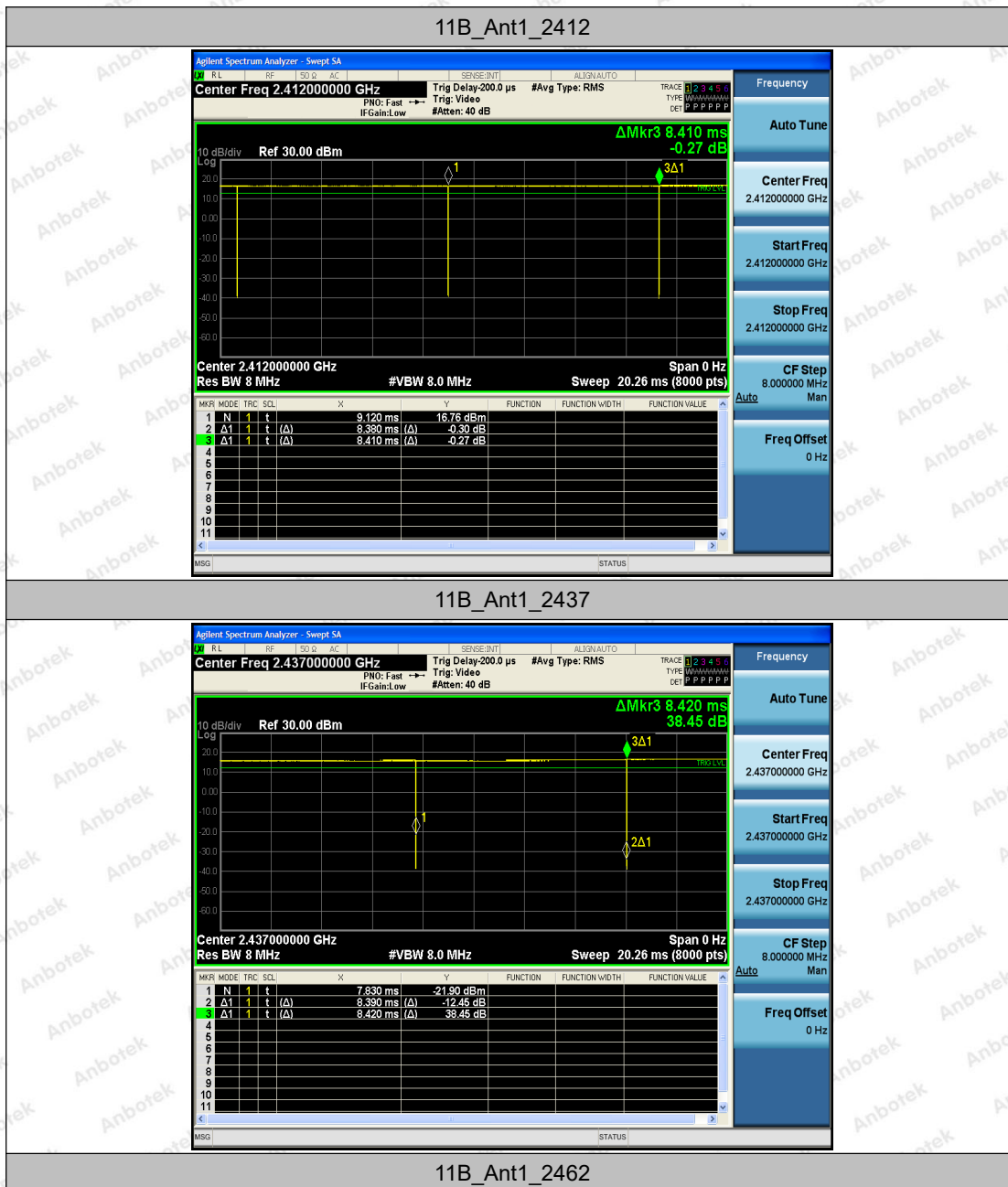
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.41	99.64	---	PASS
		2437	8.39	8.42	99.64	---	PASS
		2462	8.39	8.41	99.76	---	PASS
11G	Ant1	2412	1.39	1.43	97.20	---	PASS
		2437	1.39	1.43	97.20	---	PASS
		2462	1.39	1.43	97.20	---	PASS
11N20	Ant1	2412	1.30	1.34	97.01	---	PASS
		2437	1.30	1.34	97.01	---	PASS
		2462	1.30	1.34	97.01	---	PASS
11N40	Ant1	2422	0.64	0.68	94.12	---	PASS
		2437	0.64	0.68	94.12	---	PASS
		2452	0.65	0.68	95.59	---	PASS

Test Graphs

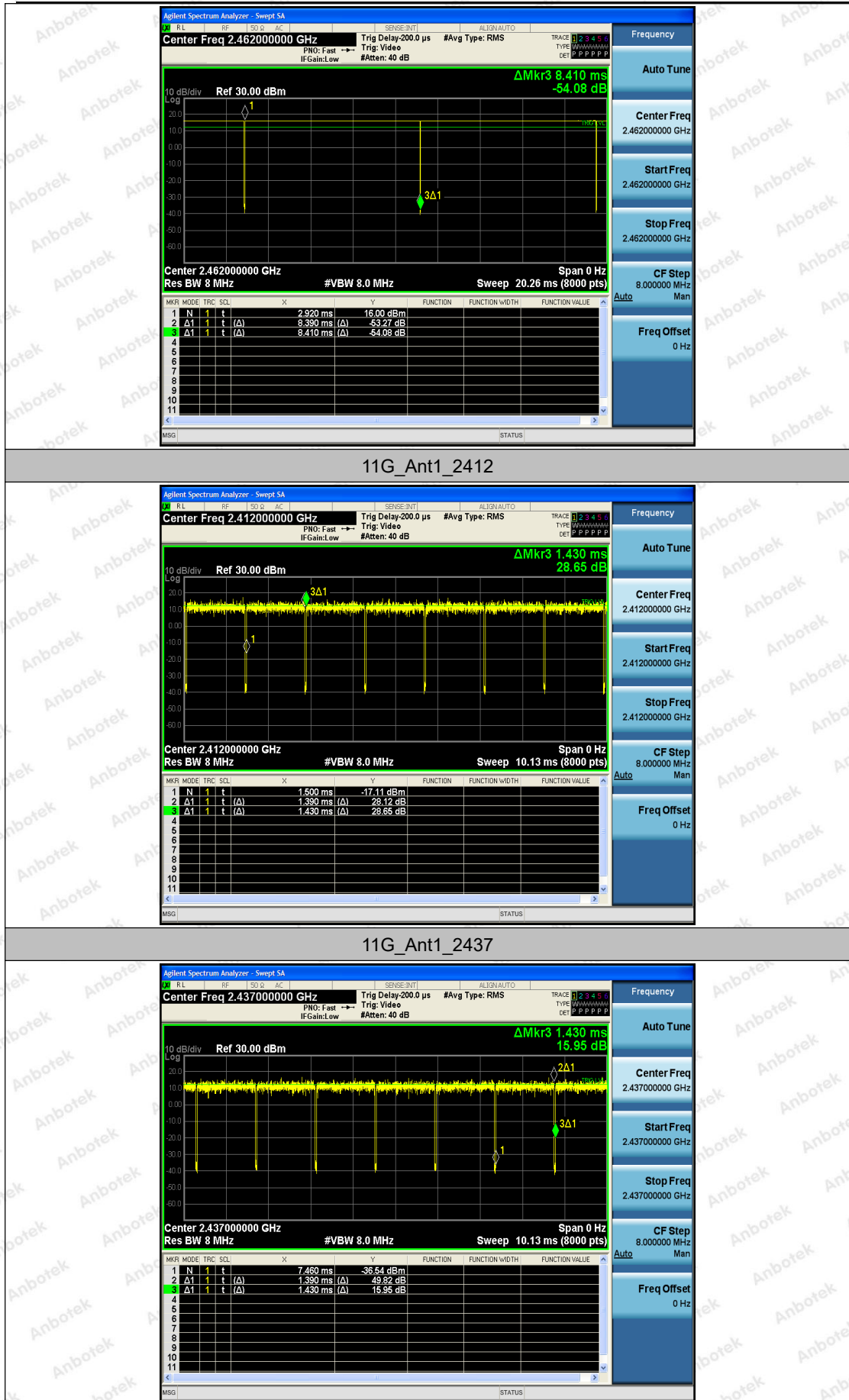


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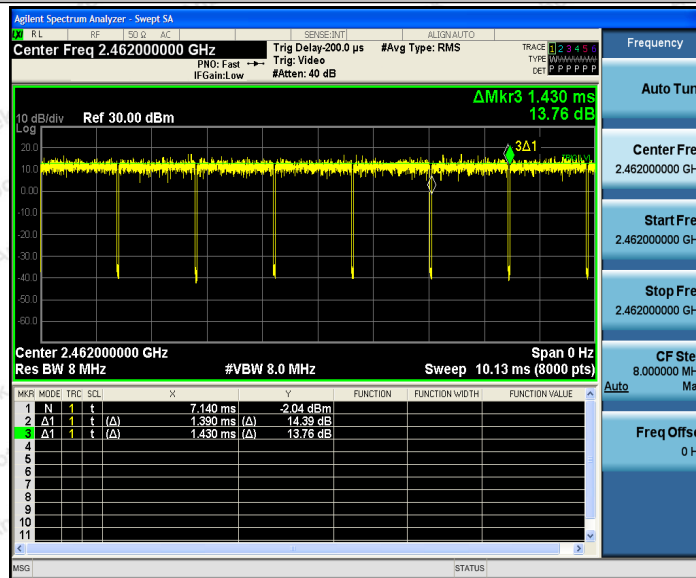
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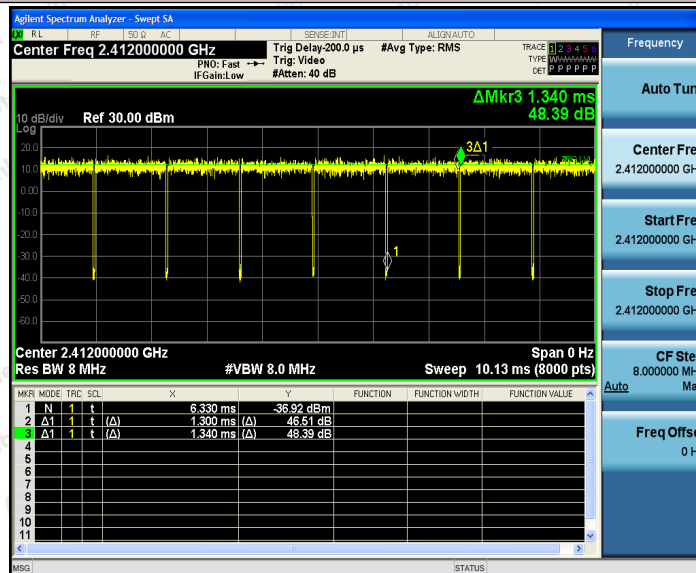
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11G_Ant1_2462



11N20_Ant1_2412



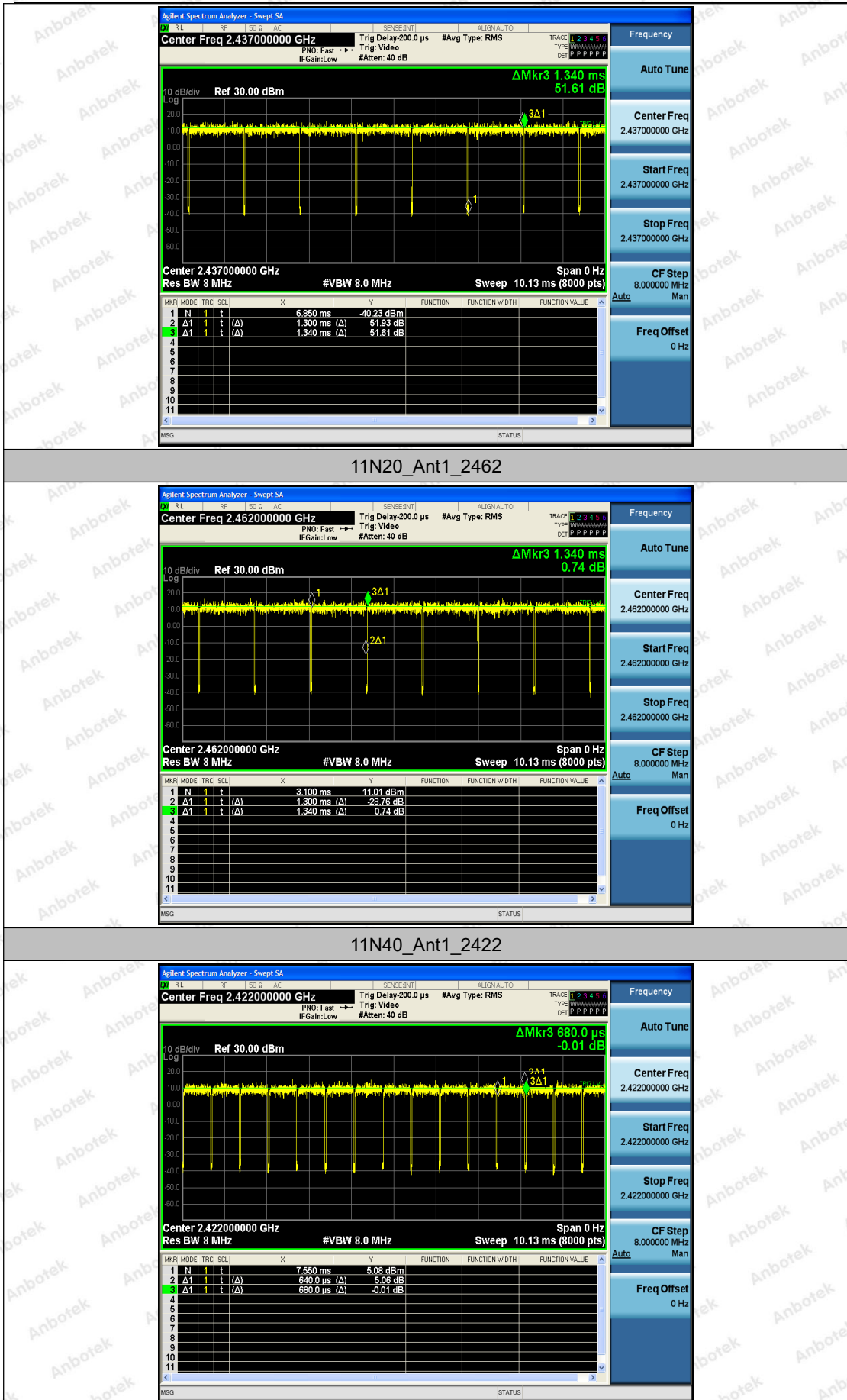
11N20_Ant1_2437

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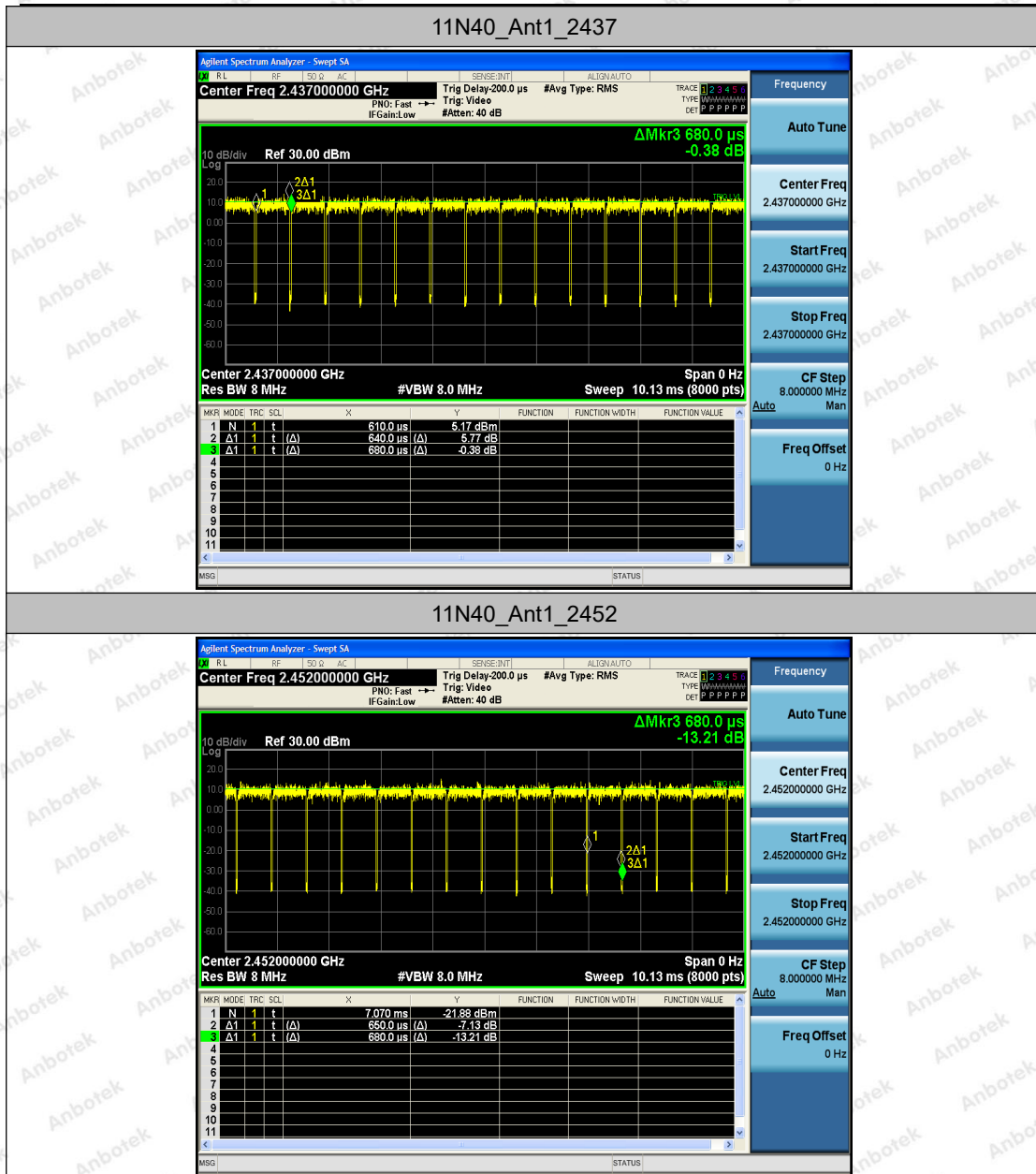


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