

Appendix Test Data

Report No.:	18220WC20052701	Test Sample No.:	1-2-2
Start Test Date:	2022.3.23	Finish Test Date:	2022.3.24
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.160	2406.920	2417.080	≥0.5	PASS
		2437	9.120	2432.440	2441.560	≥0.5	PASS
		2462	10.120	2456.960	2467.080	≥0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥0.5	PASS
		2437	16.480	2428.800	2445.280	≥0.5	PASS
		2462	16.400	2453.800	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.640	2403.200	2420.840	≥0.5	PASS
		2437	17.400	2428.440	2445.840	≥0.5	PASS
		2462	17.680	2453.160	2470.840	≥0.5	PASS
11N40	Ant1	2422	35.820	2404.420	2440.240	≥0.5	PASS
		2437	35.460	2419.540	2455.000	≥0.5	PASS
		2452	36.000	2434.000	2470.000	≥0.5	PASS

Test Graphs

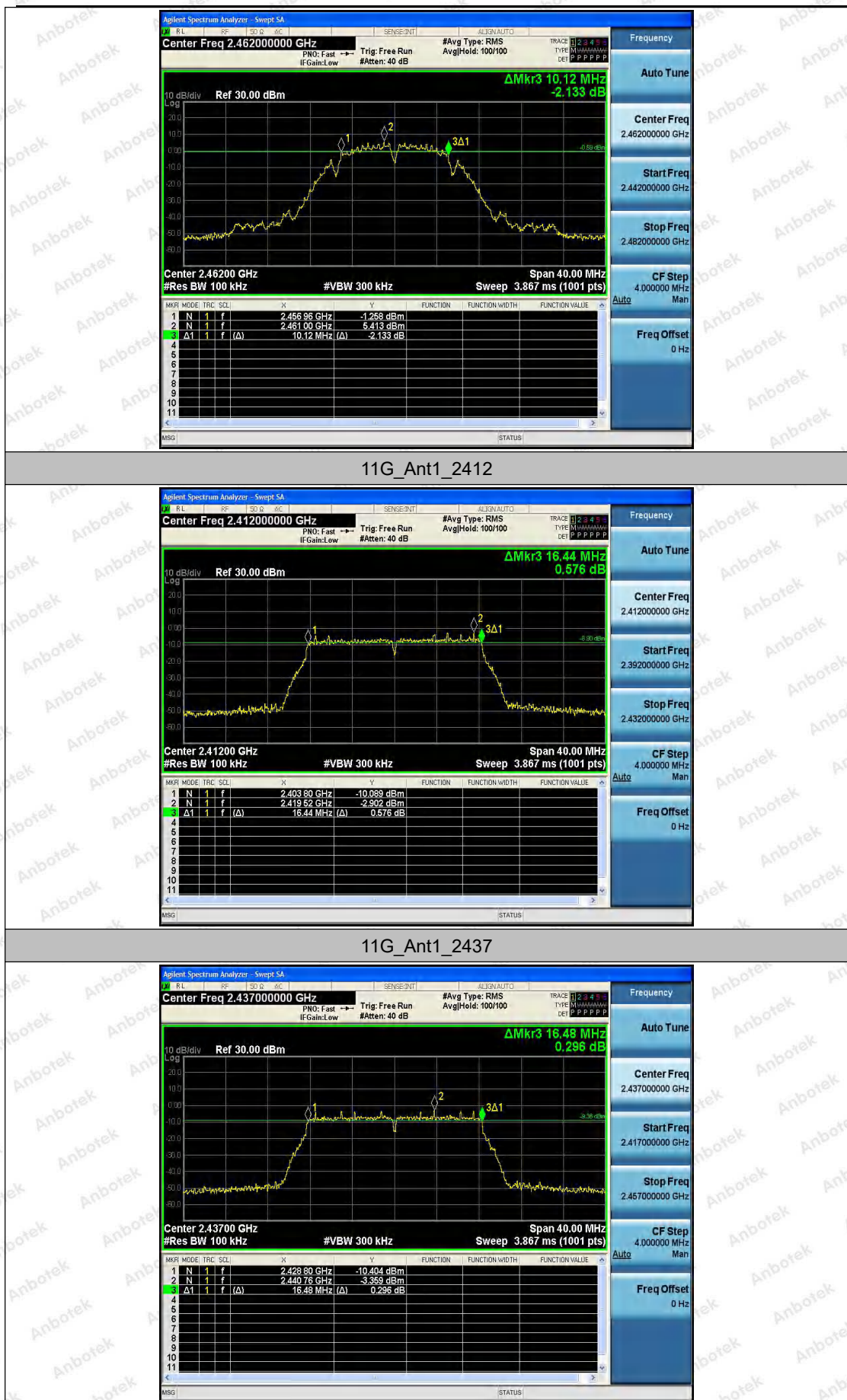
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



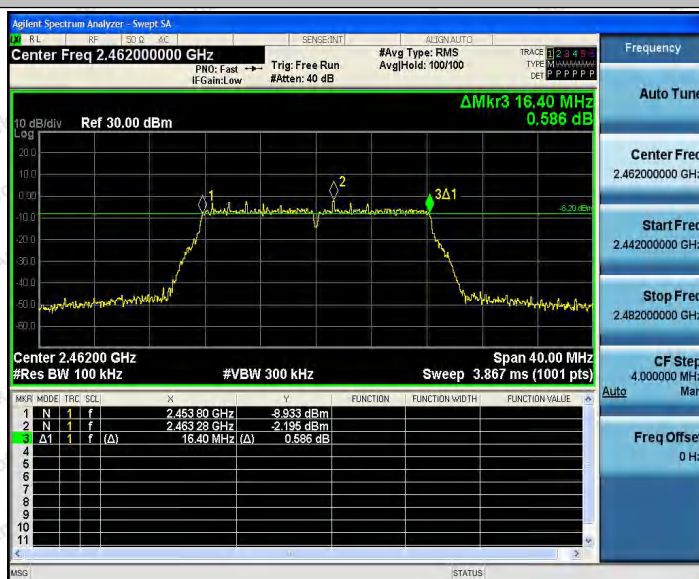
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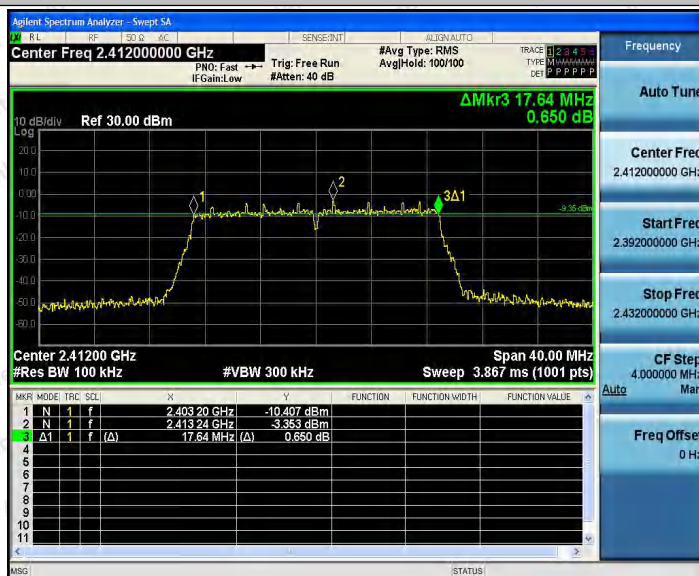
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11G_Ant1_2462



11N20_Ant1_2412



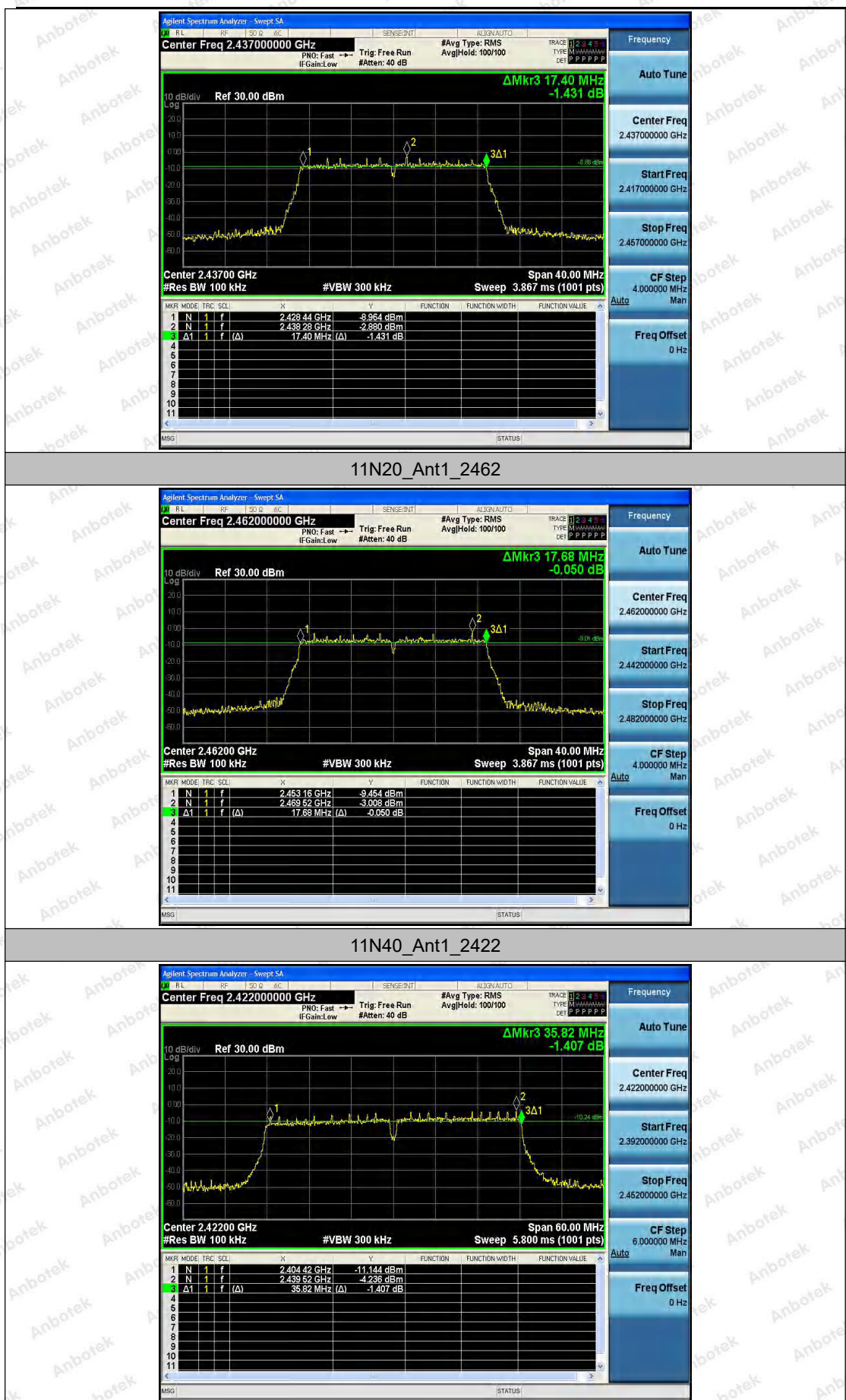
11N20_Ant1_2437

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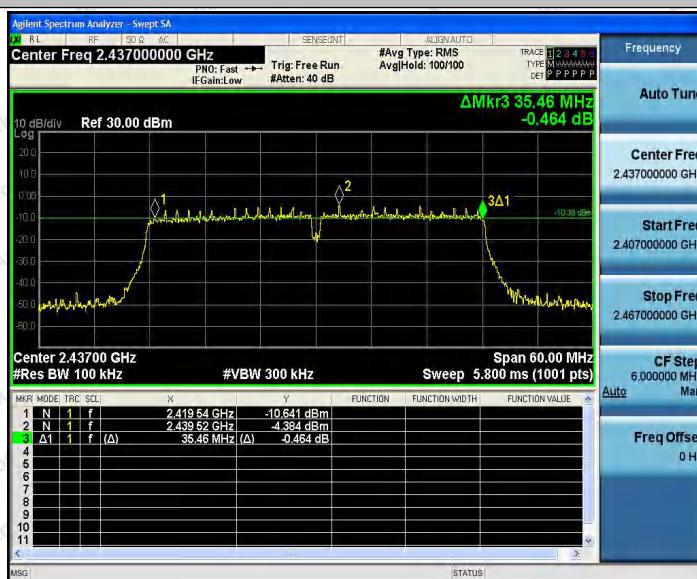
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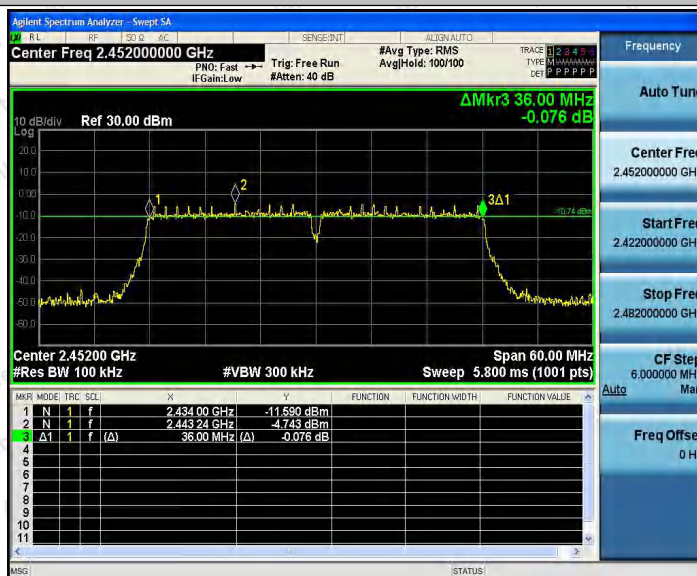
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11N40_Ant1_2437



11N40_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.341	2404.952	2419.293	---	PASS
		2437	12.346	2430.881	2443.227	---	PASS
		2462	12.385	2455.827	2468.212	---	PASS
11G	Ant1	2412	17.189	2403.462	2420.651	---	PASS
		2437	17.027	2428.528	2445.555	---	PASS
		2462	17.091	2453.472	2470.563	---	PASS
11N20	Ant1	2412	17.990	2403.049	2421.039	---	PASS
		2437	17.881	2428.080	2445.961	---	PASS
		2462	17.947	2453.034	2470.981	---	PASS
11N40	Ant1	2422	36.155	2404.080	2440.235	---	PASS
		2437	36.074	2419.040	2455.114	---	PASS
		2452	36.132	2433.973	2470.105	---	PASS

Test Graphs

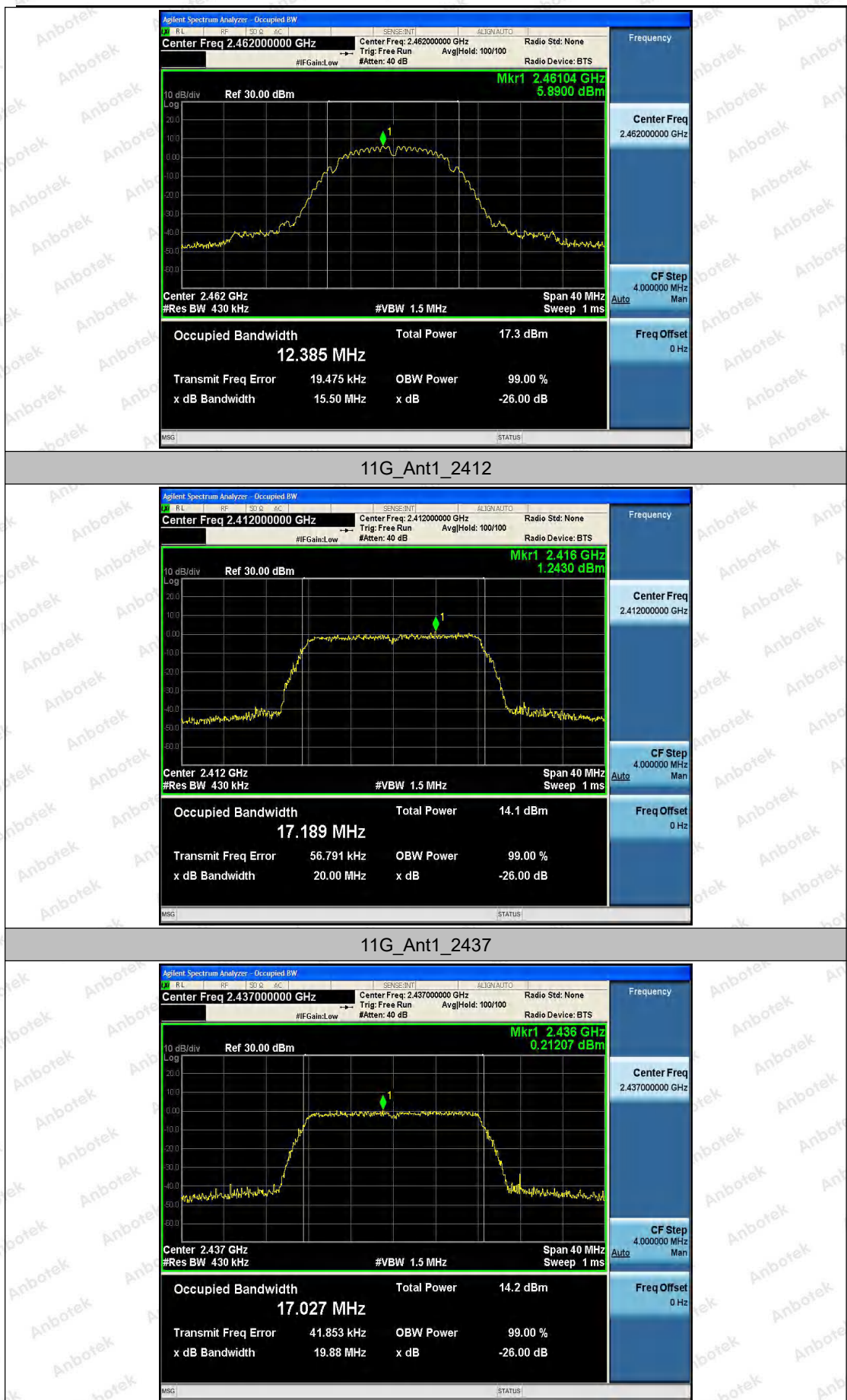


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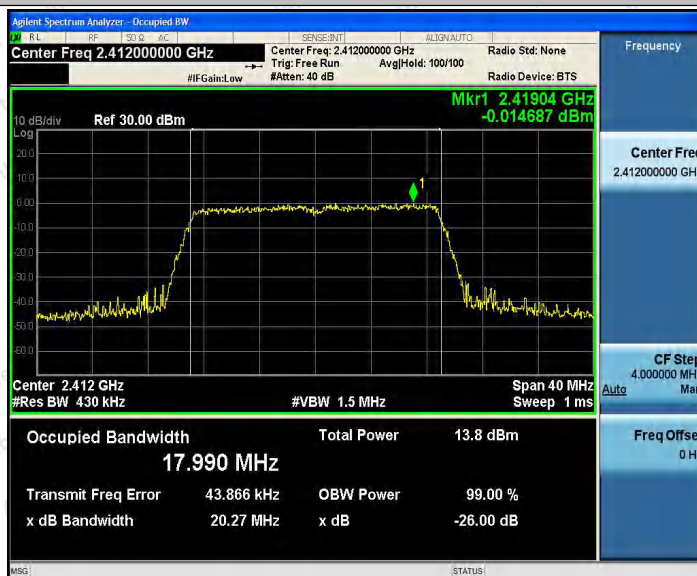
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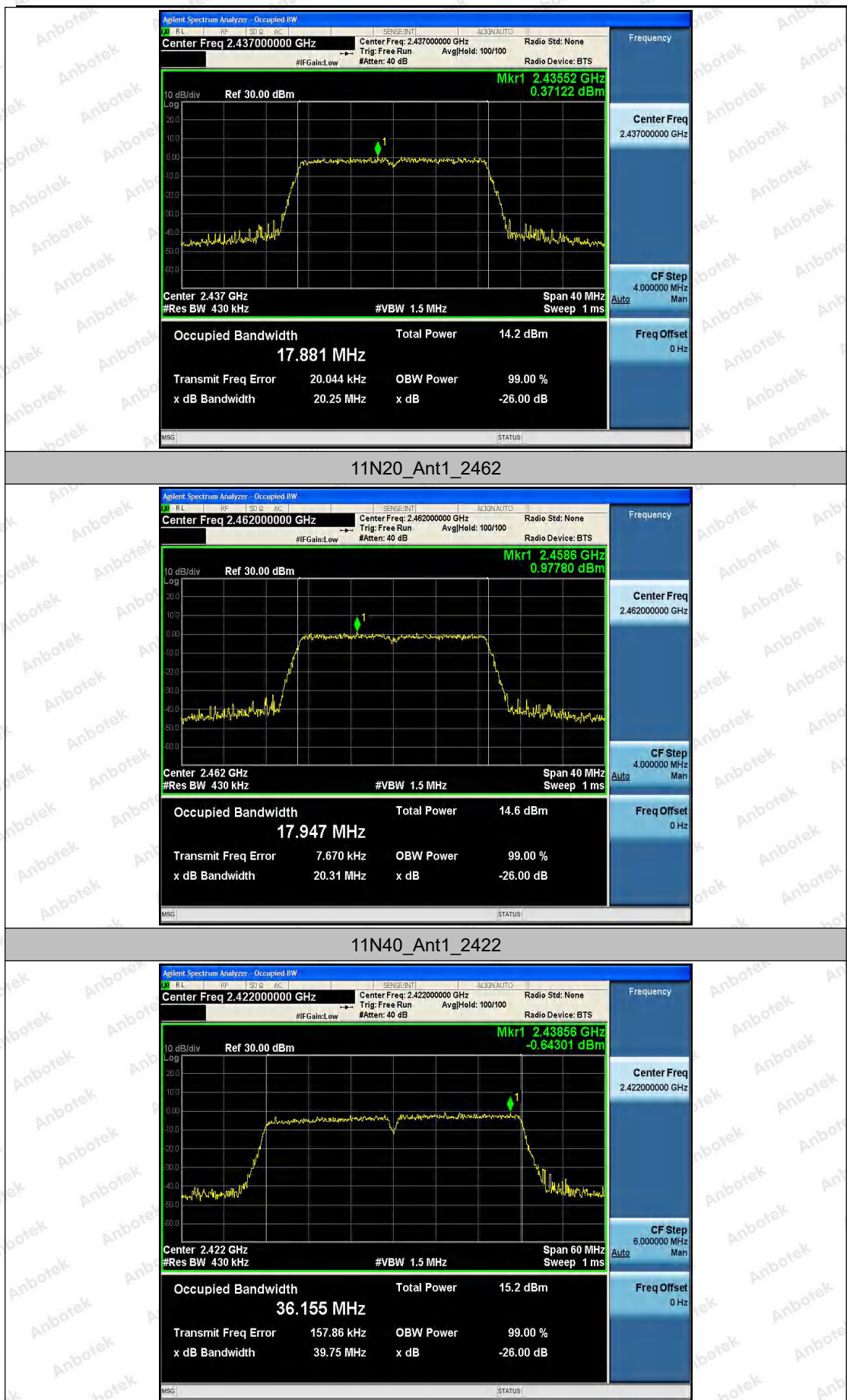
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437



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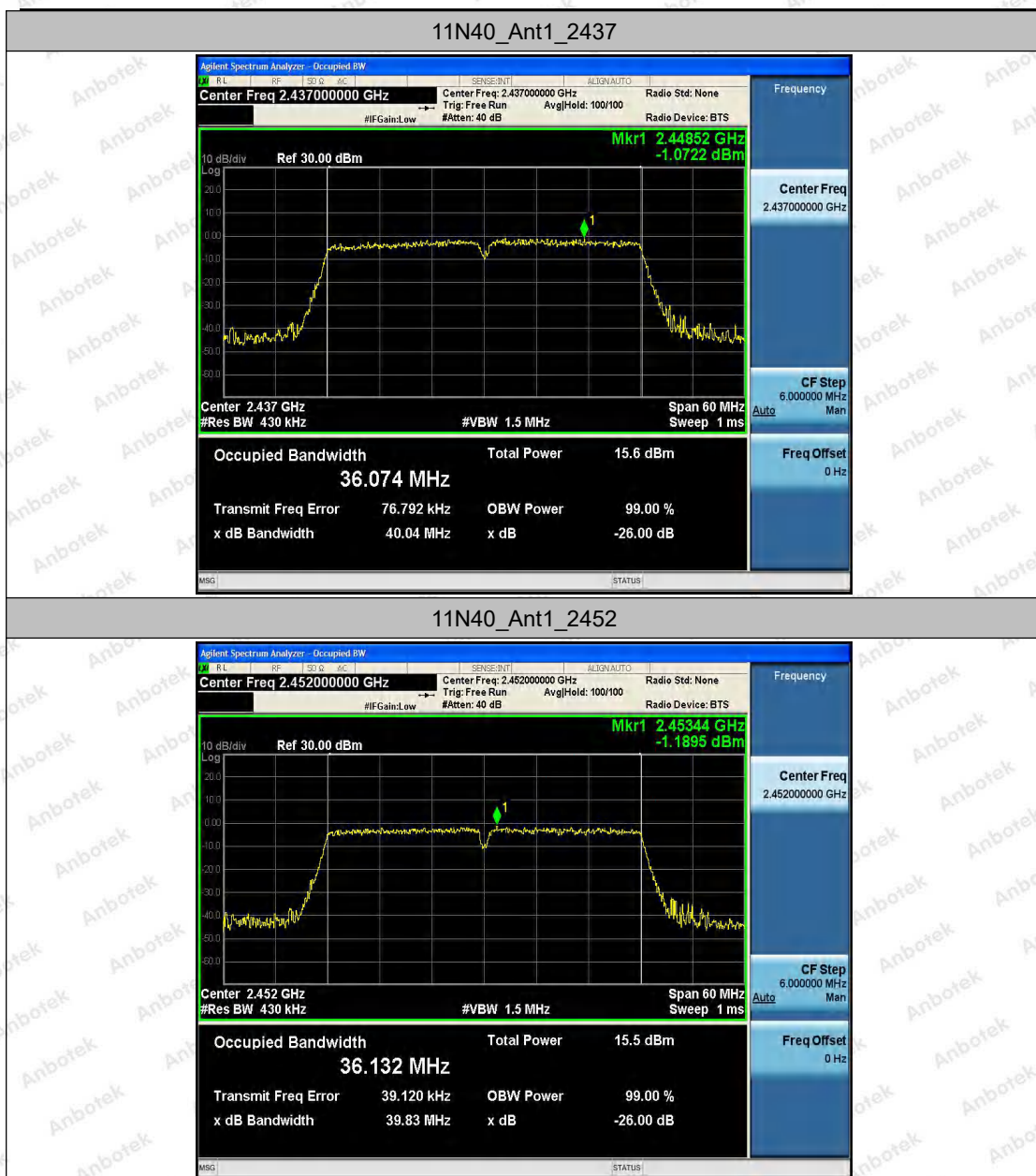
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Appendix C: Maximum conducted output power

Test Result

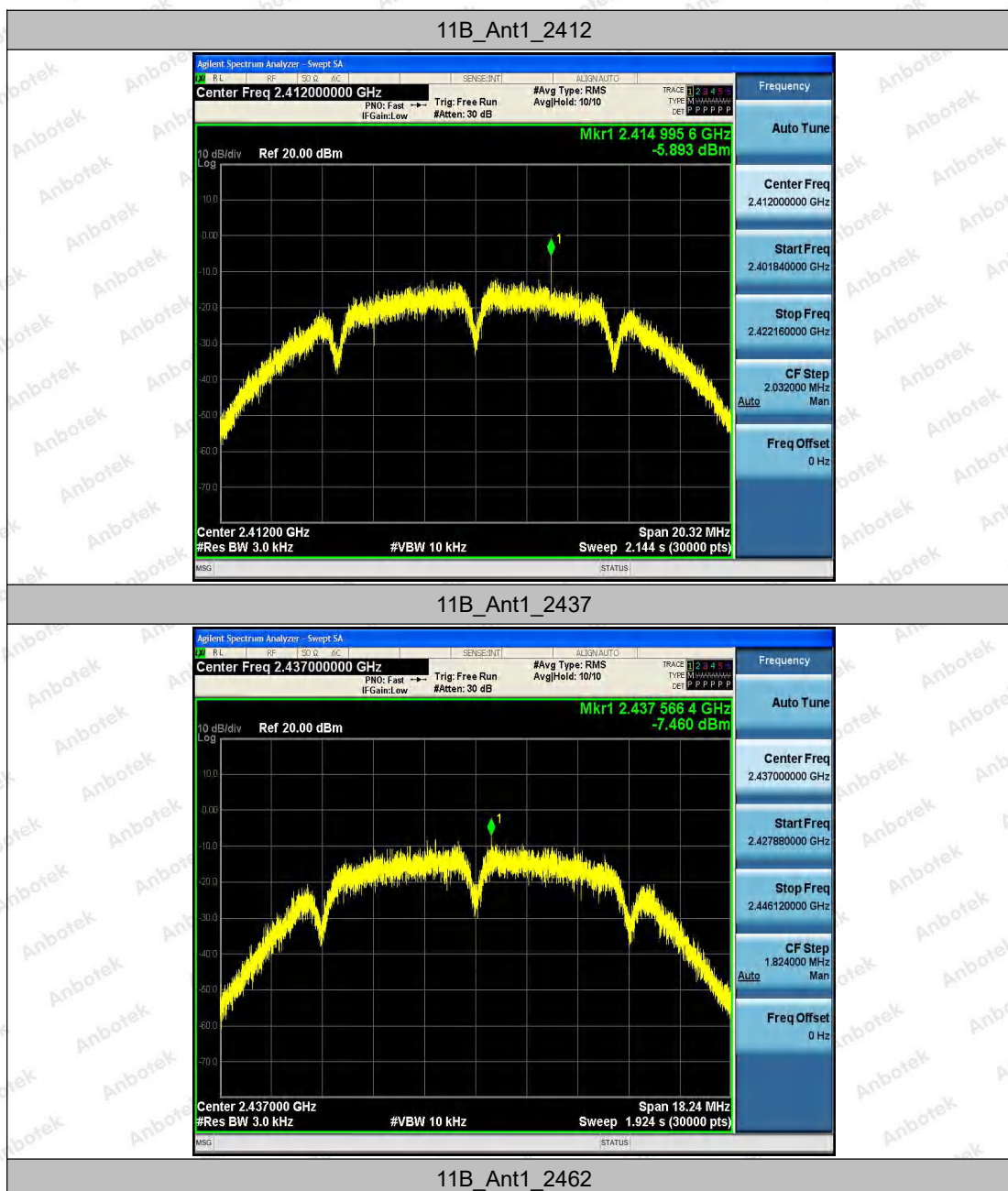
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.21	≤30	PASS
		2437	15.39	≤30	PASS
		2462	15.35	≤30	PASS
11G	Ant1	2412	15.24	≤30	PASS
		2437	15.33	≤30	PASS
		2462	16.17	≤30	PASS
11N20	Ant1	2412	15.12	≤30	PASS
		2437	15.24	≤30	PASS
		2462	15.74	≤30	PASS
11N40	Ant1	2422	13.99	≤30	PASS
		2437	14.11	≤30	PASS
		2452	14.23	≤30	PASS

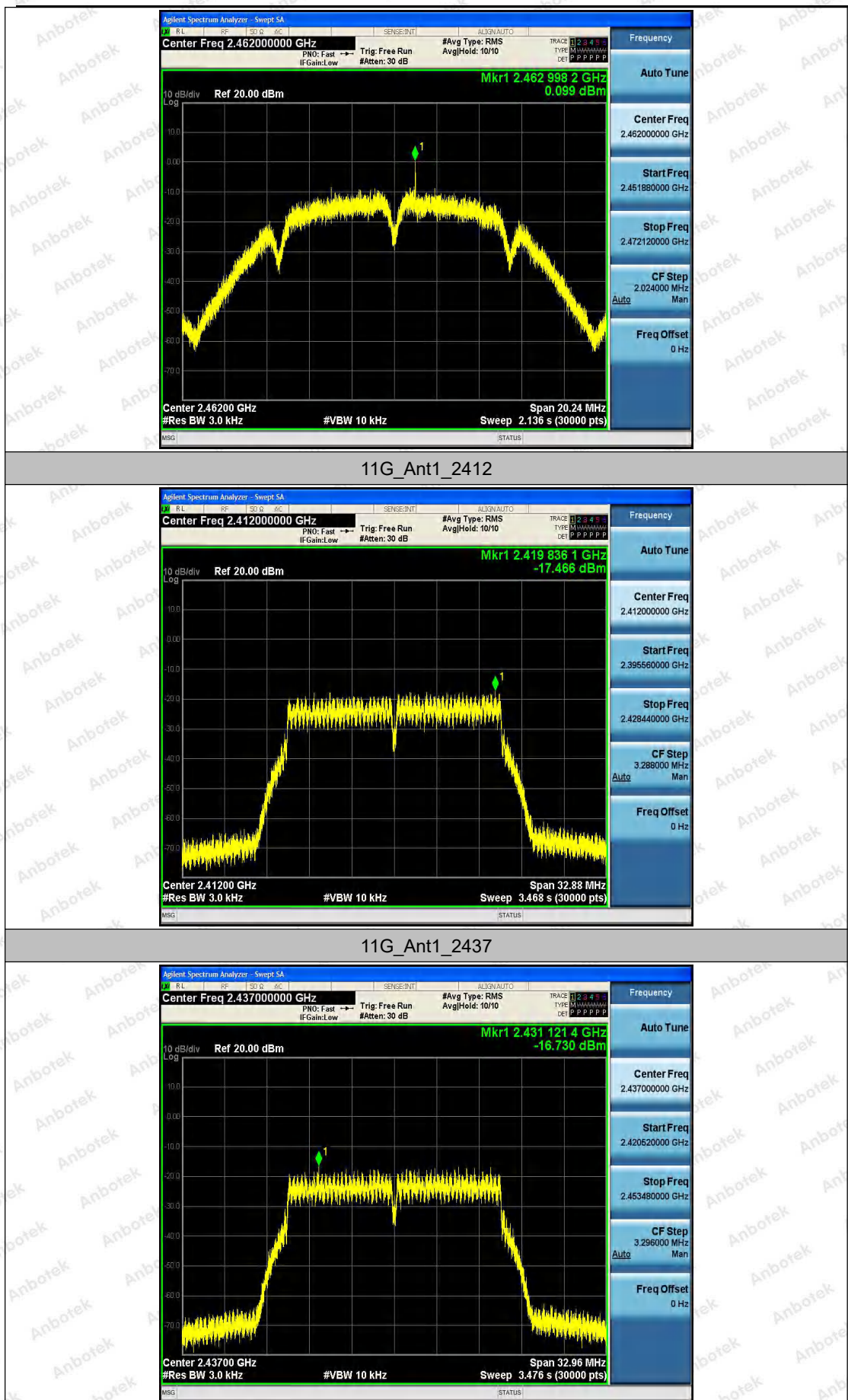
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.89	≤8	PASS
		2437	-7.46	≤8	PASS
		2462	0.1	≤8	PASS
11G	Ant1	2412	-17.47	≤8	PASS
		2437	-16.73	≤8	PASS
		2462	-16.24	≤8	PASS
11N20	Ant1	2412	-16.81	≤8	PASS
		2437	-17.04	≤8	PASS
		2462	-15.58	≤8	PASS
11N40	Ant1	2422	-17.32	≤8	PASS
		2437	-18.46	≤8	PASS
		2452	-18.32	≤8	PASS

Test Graphs



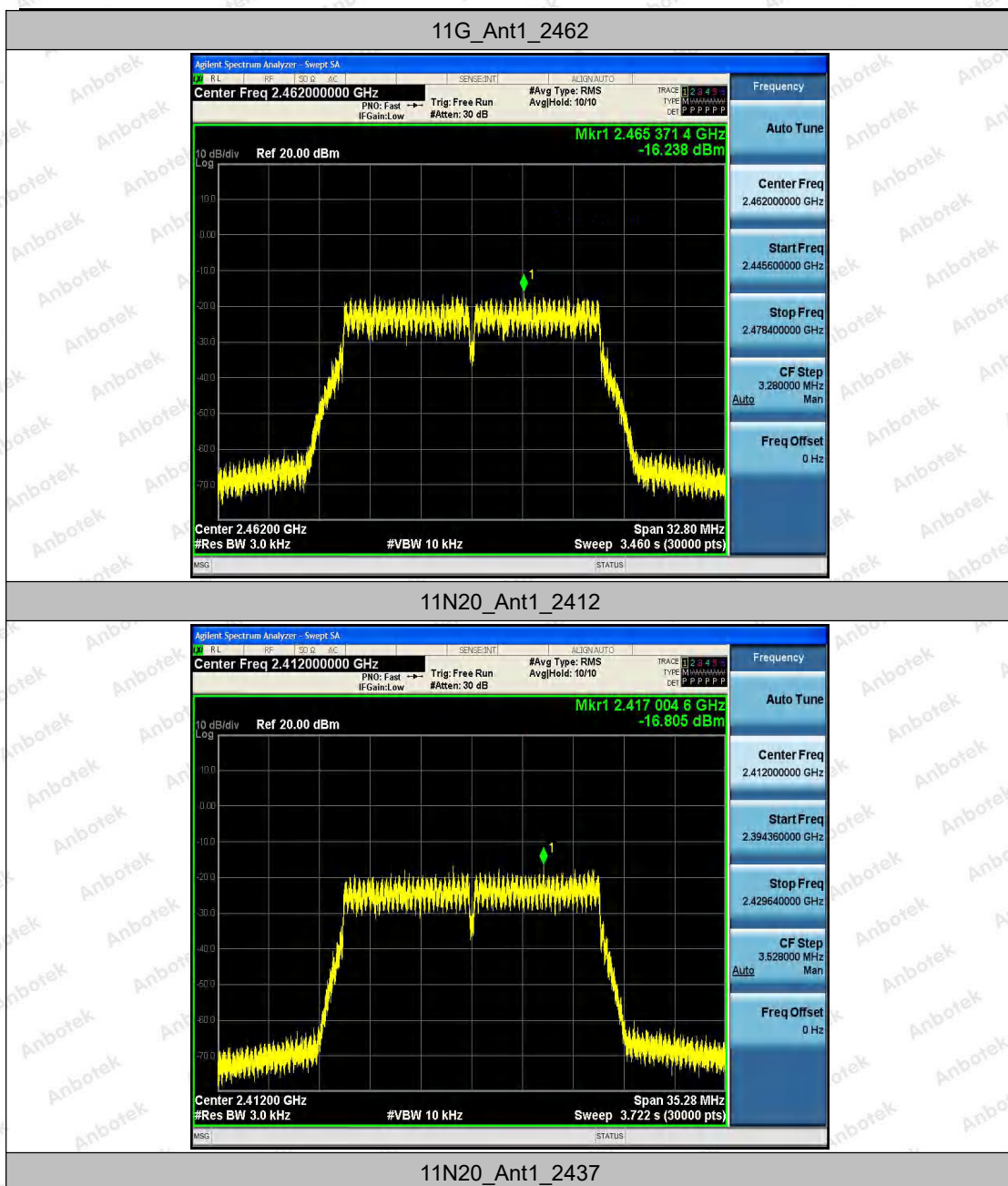


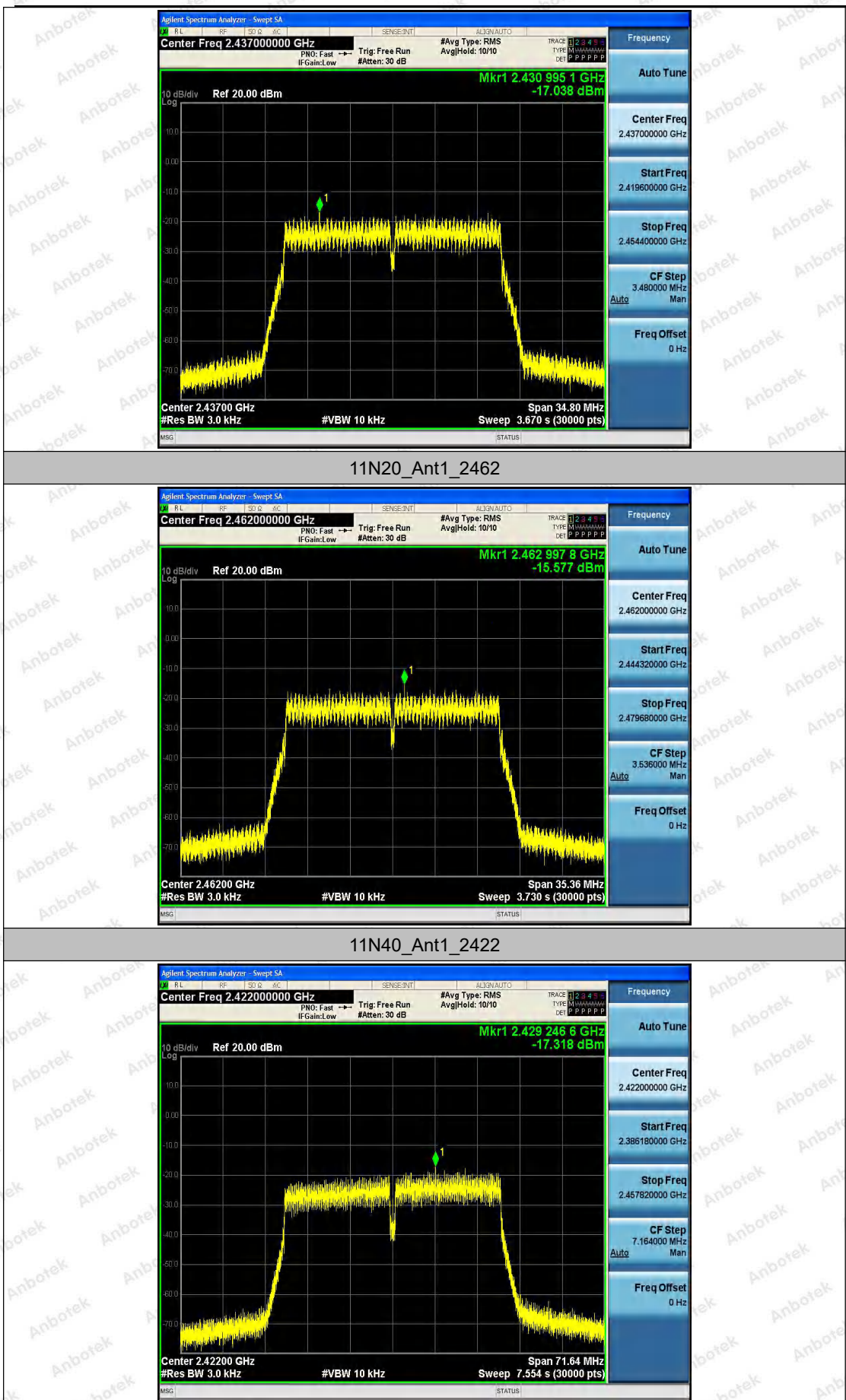
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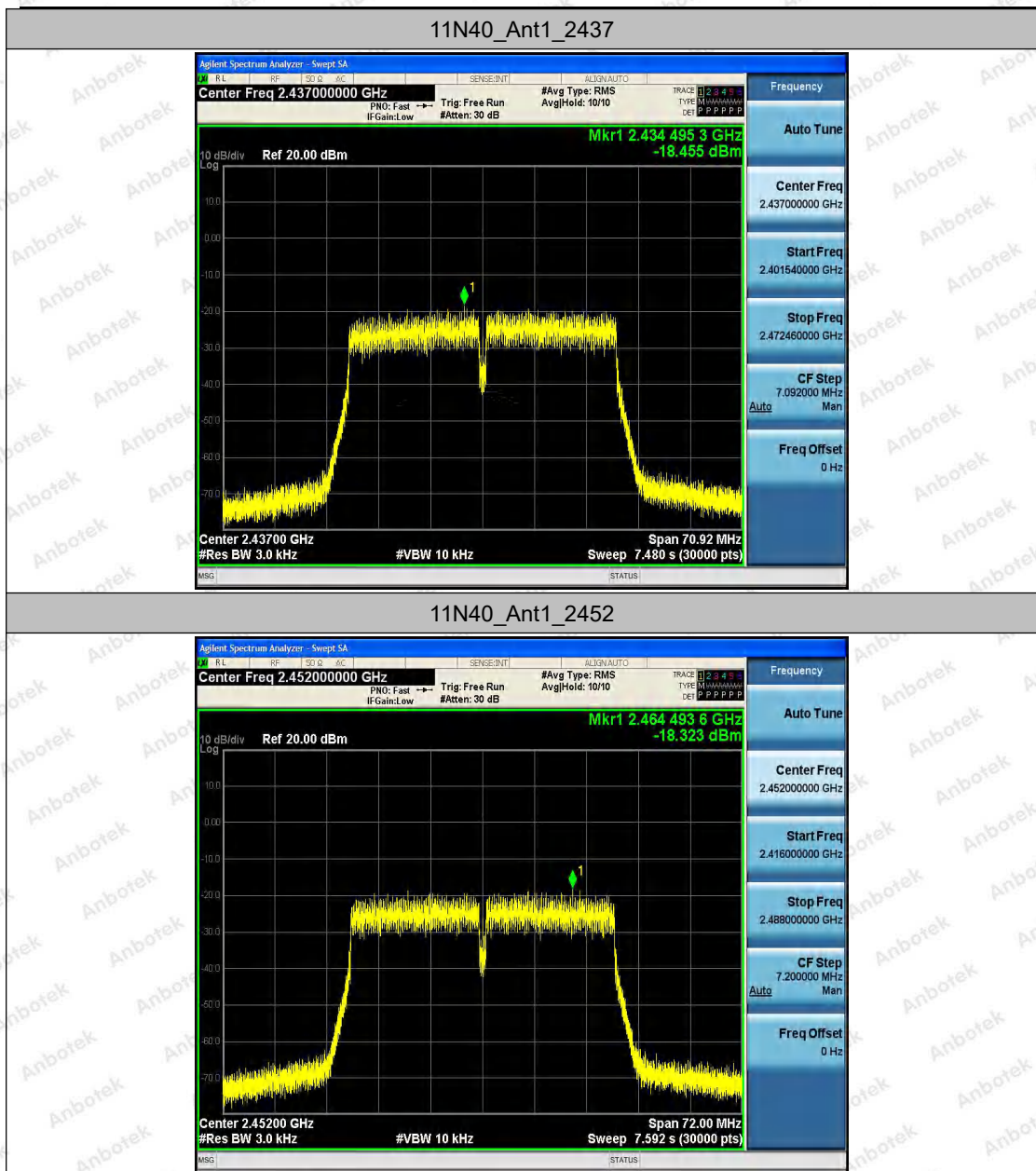
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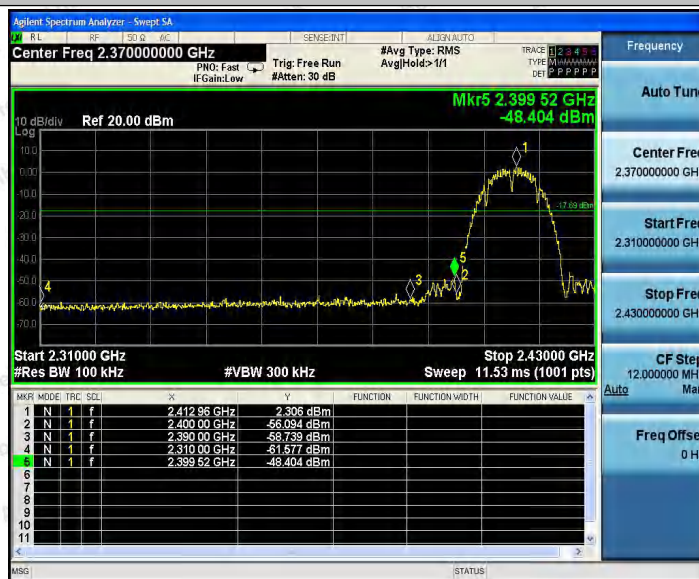
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.31	-48.77	≤ -17.69	PASS
		High	2462	5.64	-53.52	≤ -14.36	PASS
11G	Ant1	Low	2412	-6.70	-53.66	≤ -26.7	PASS
		High	2462	-2.18	-52	≤ -22.18	PASS
11N20	Ant1	Low	2412	-3.32	-46.94	≤ -23.32	PASS
		High	2462	-3.04	-52.6	≤ -23.04	PASS
11N40	Ant1	Low	2422	-4.94	-47.98	≤ -24.94	PASS
		High	2452	-4.54	-48.76	≤ -24.54	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



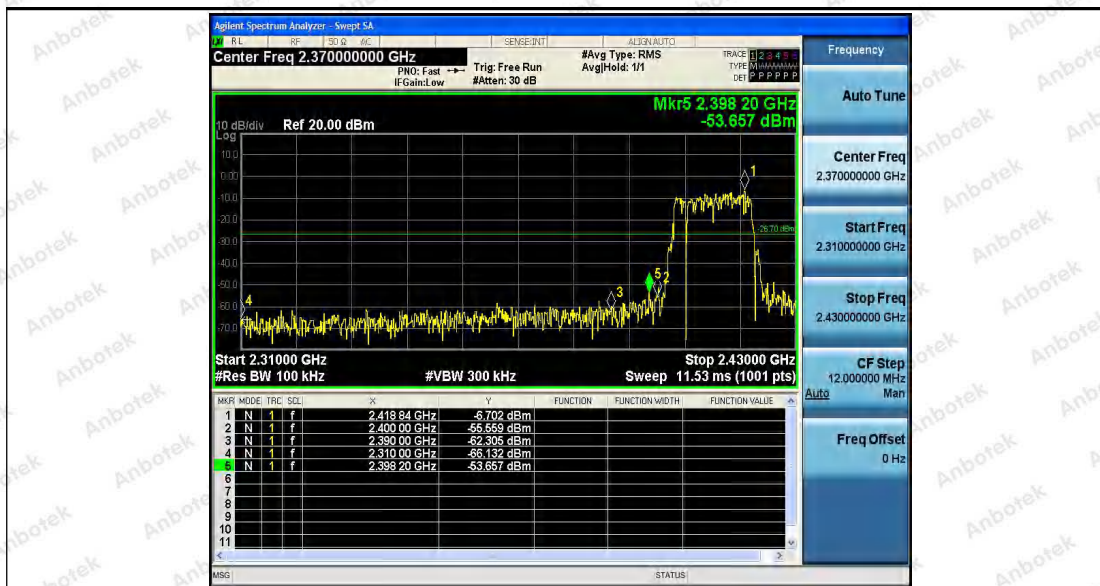
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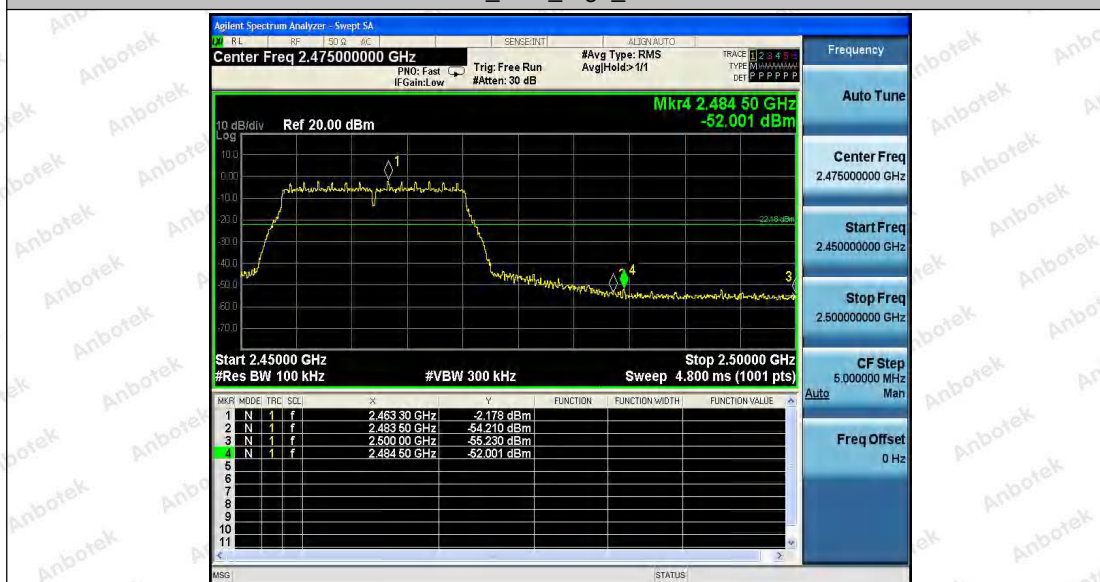
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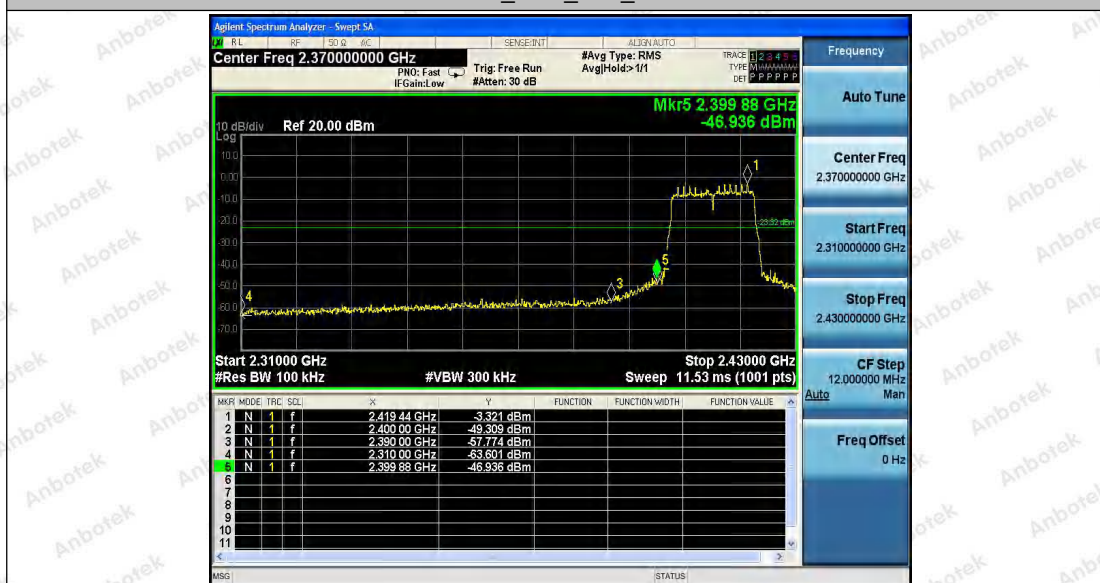
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11G_Ant1_High_2462



11N20_Ant1_Low_2412



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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



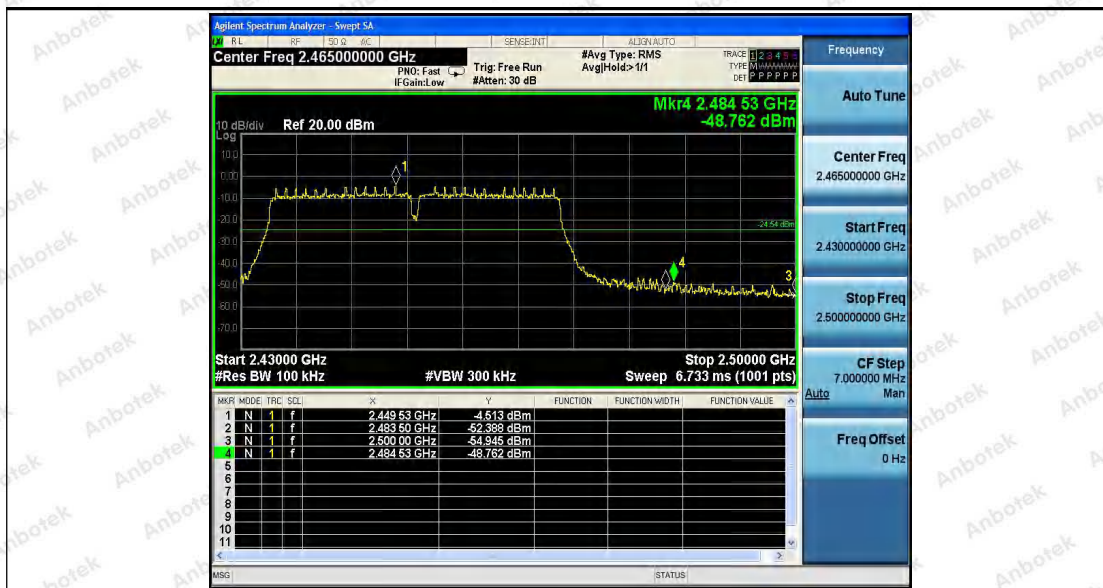
11N40_Ant1_High_2452

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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range[Mhz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-70.17	≤-18.13	PASS
			1000~26500	1.87	-55.65	≤-18.13	PASS
		2437	Reference	5.77	5.77	---	PASS
			30~1000	5.77	-69.99	≤-14.23	PASS
			1000~26500	5.77	-54.95	≤-14.23	PASS
		2462	Reference	5.85	5.85	---	PASS
			30~1000	5.85	-69.37	≤-14.15	PASS
			1000~26500	5.85	-55.89	≤-14.15	PASS
11G	Ant1	2412	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-70.62	≤-23.72	PASS
			1000~26500	-3.72	-55.47	≤-23.72	PASS
		2437	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-69.9	≤-22.95	PASS
			1000~26500	-2.95	-54.73	≤-22.95	PASS
		2462	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-69.53	≤-22.44	PASS
			1000~26500	-2.44	-55.15	≤-22.44	PASS
11N20	Ant1	2412	Reference	-2.96	-2.96	---	PASS
			30~1000	-2.96	-70.19	≤-22.96	PASS
			1000~26500	-2.96	-55.03	≤-22.96	PASS
		2437	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-70.12	≤-23.09	PASS
			1000~26500	-3.09	-55.06	≤-23.09	PASS
		2462	Reference	-2.45	-2.45	---	PASS
			30~1000	-2.45	-50.87	≤-22.45	PASS
			1000~26500	-2.45	-55.88	≤-22.45	PASS
11N40	Ant1	2422	Reference	-4.50	-4.50	---	PASS
			30~1000	-4.50	-70.66	≤-24.5	PASS
			1000~26500	-4.50	-54.71	≤-24.5	PASS
		2437	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-70.3	≤-24.56	PASS
			1000~26500	-4.56	-55.32	≤-24.56	PASS
		2452	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-70.26	≤-24.63	PASS
			1000~26500	-4.63	-54.21	≤-24.63	PASS

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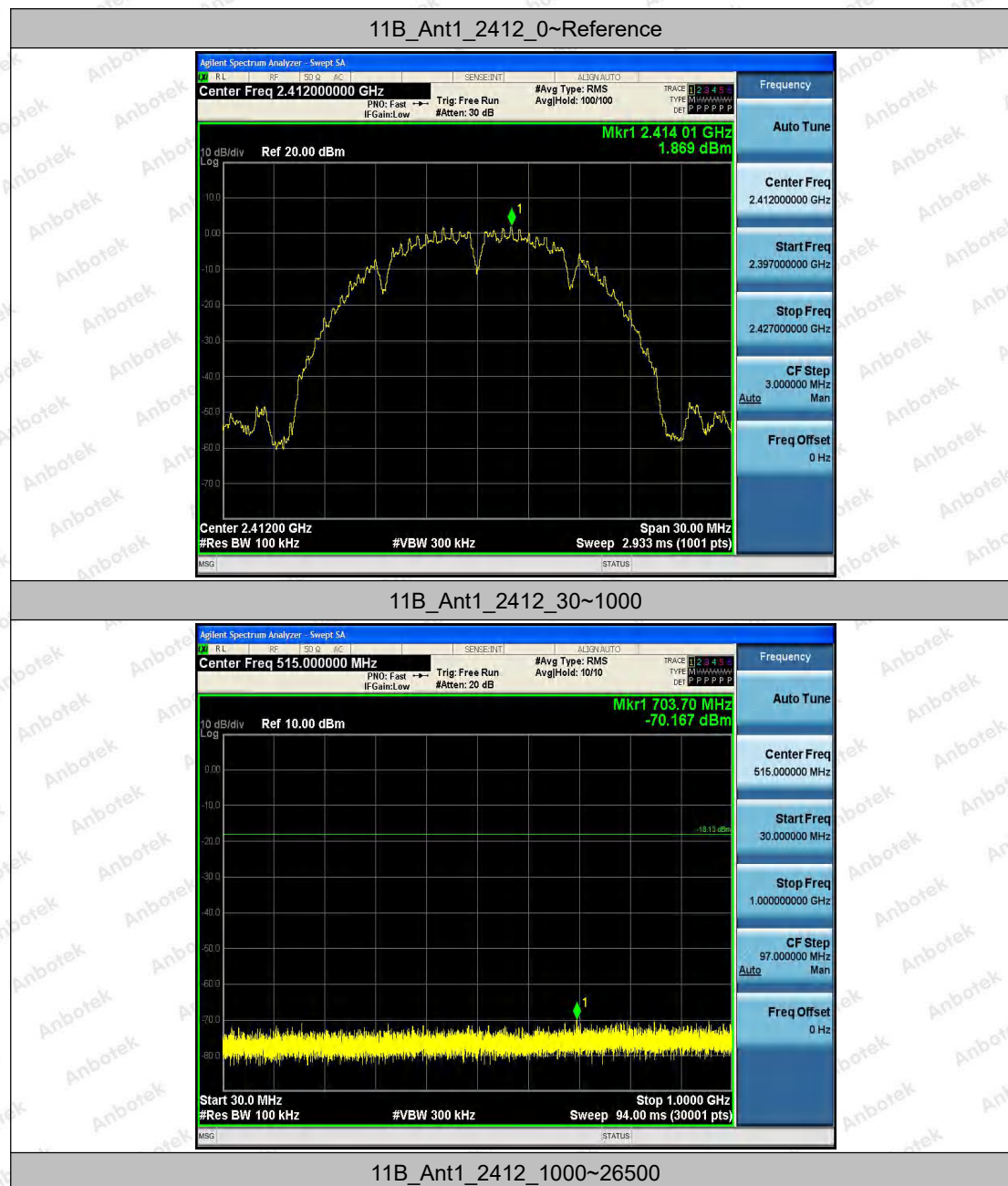


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Test Graphs

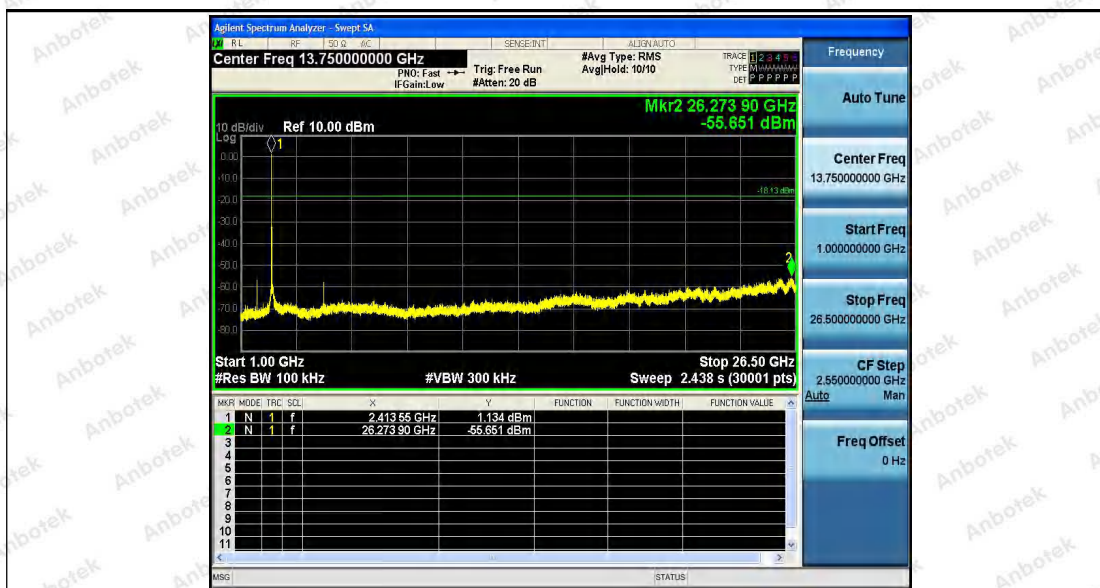


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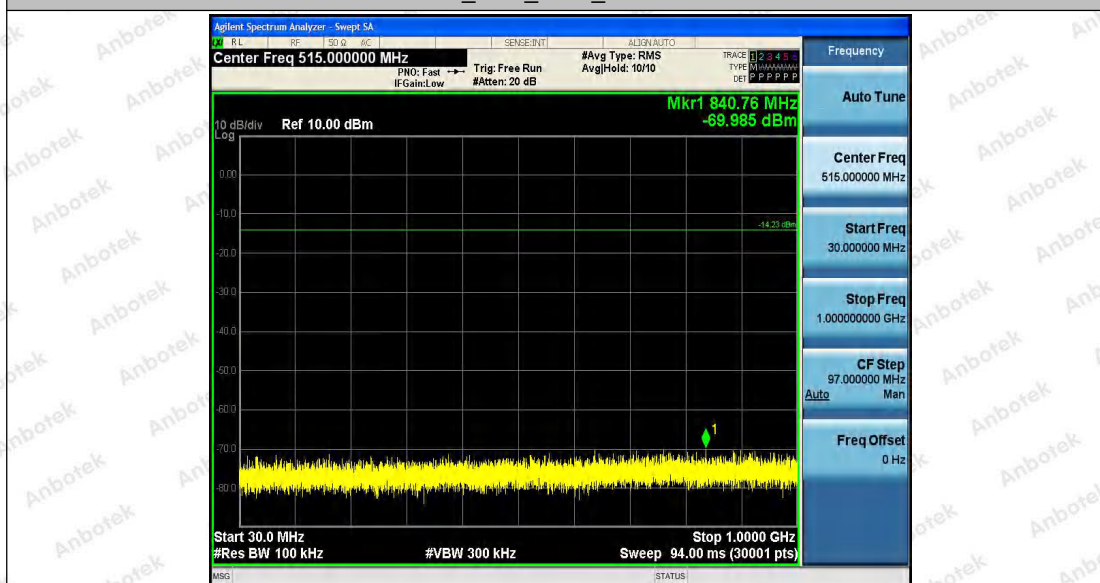
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



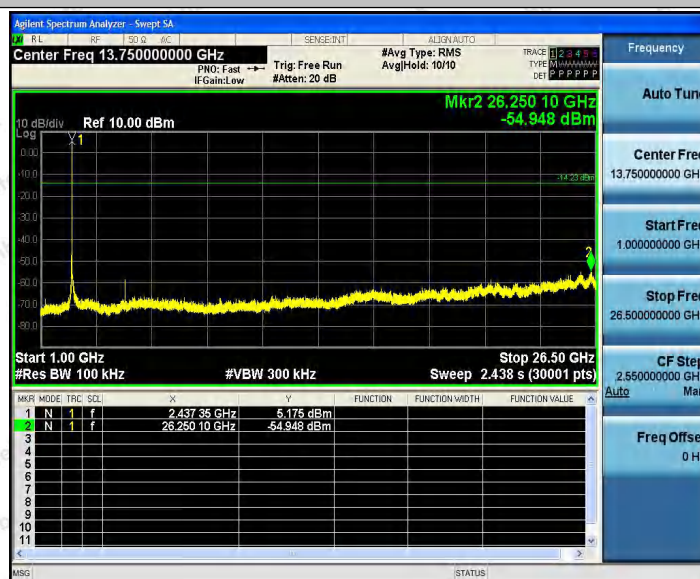
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



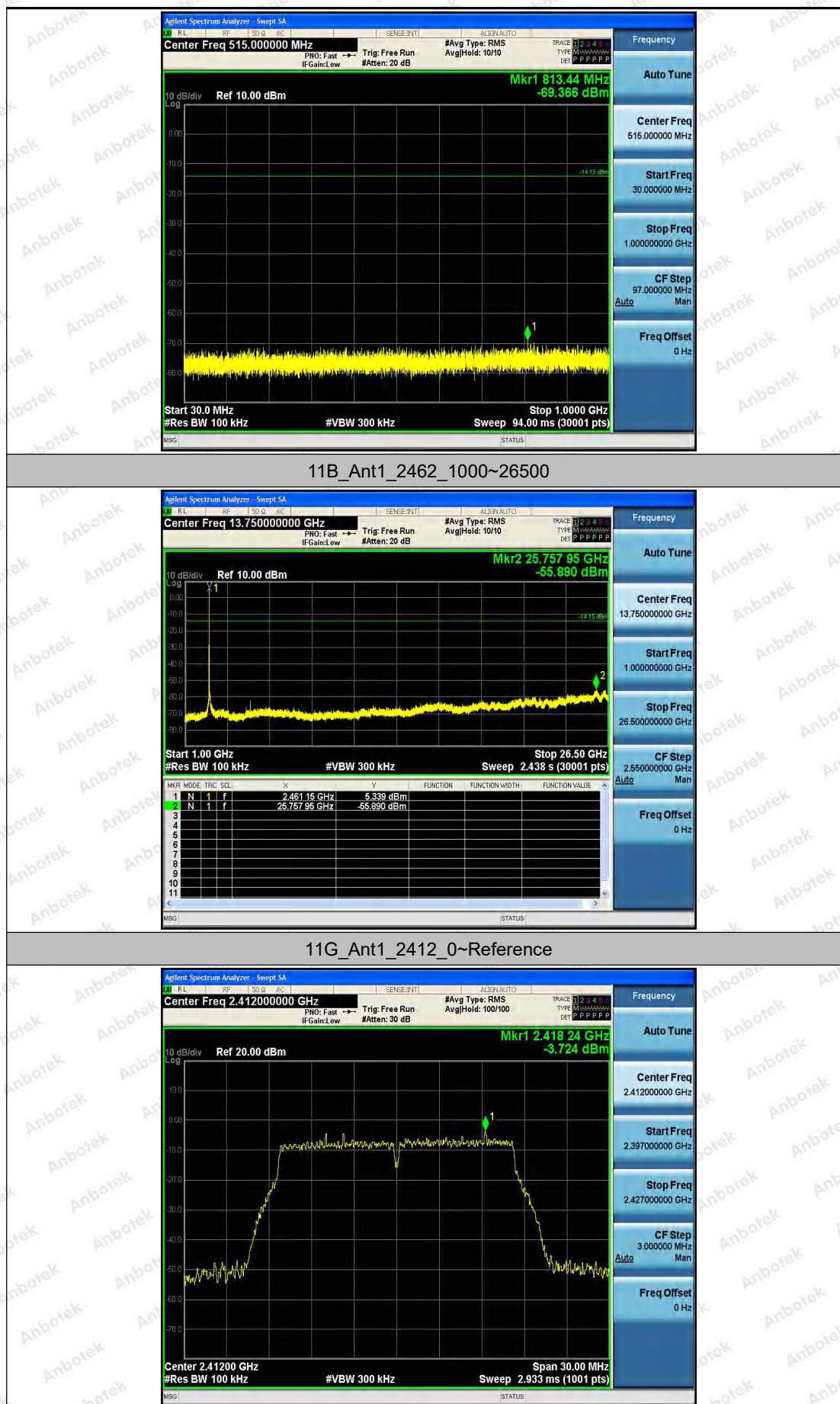
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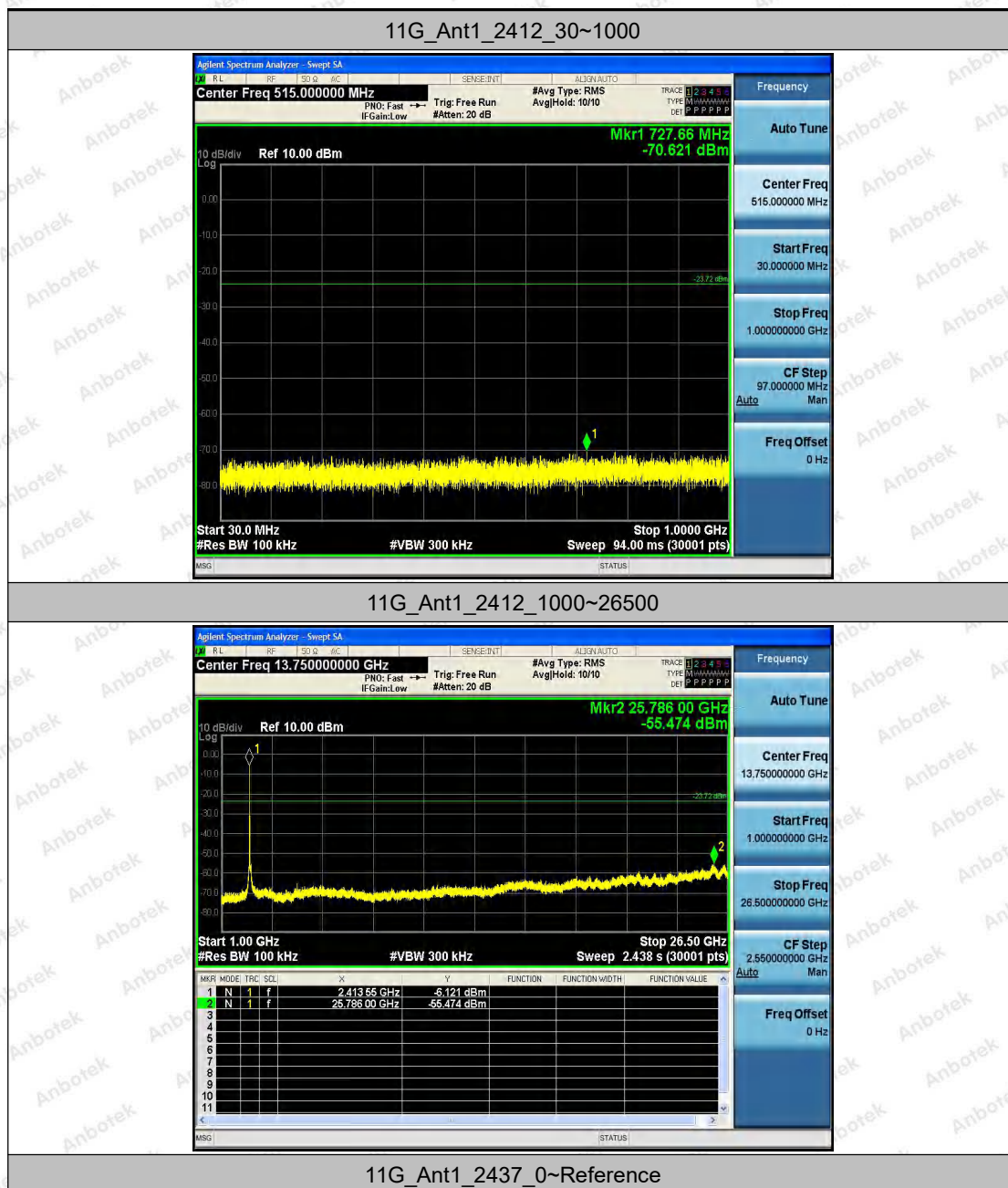


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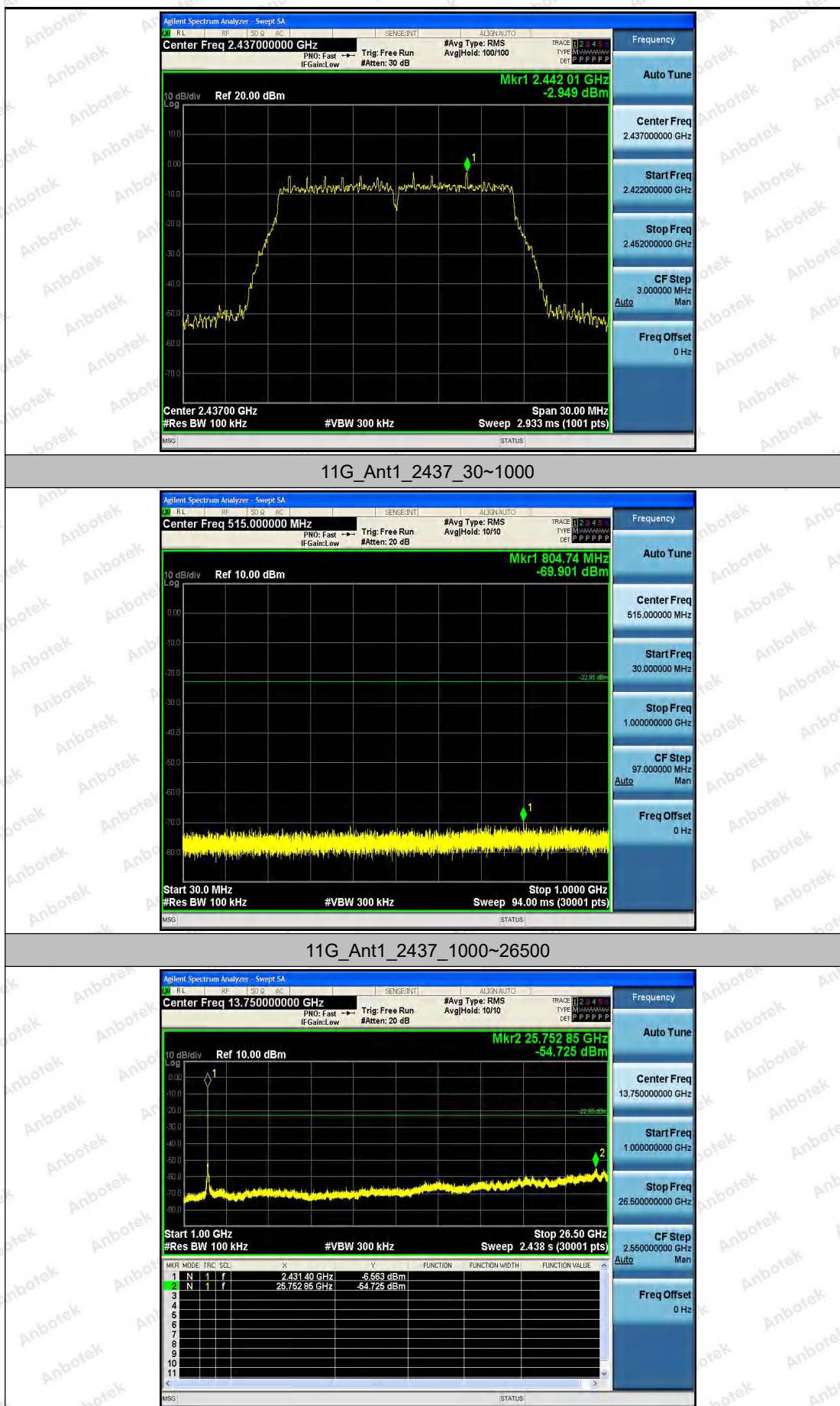


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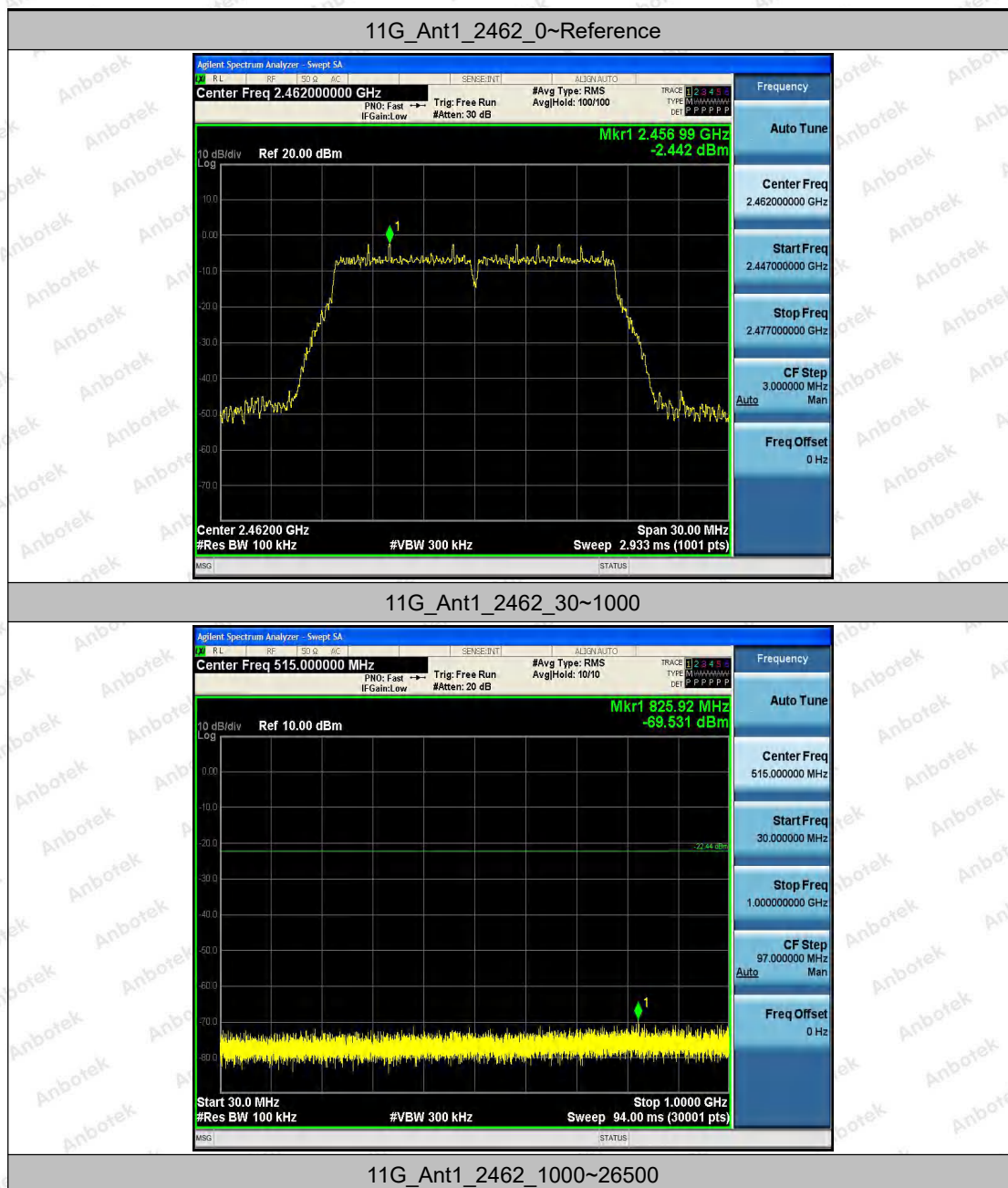


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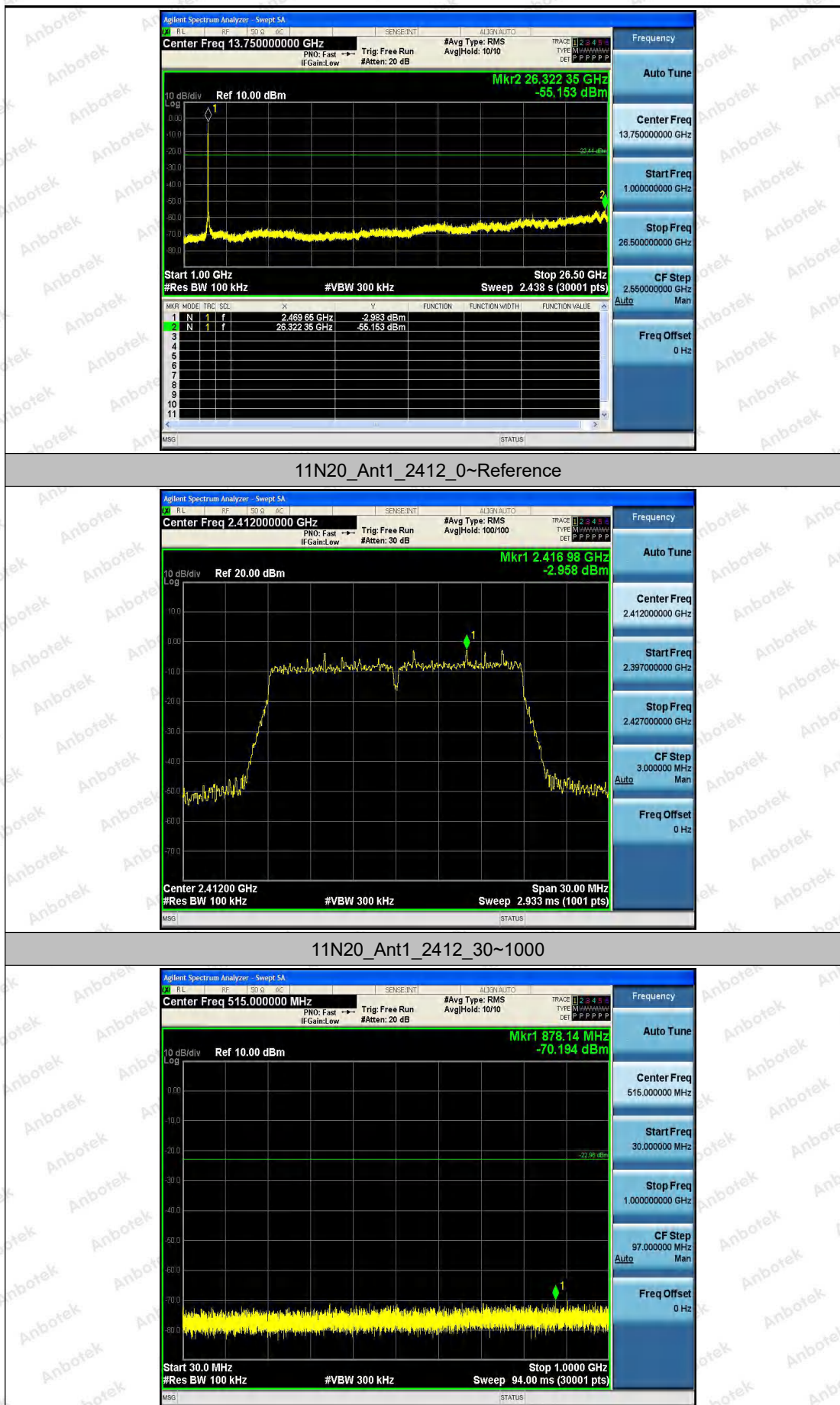


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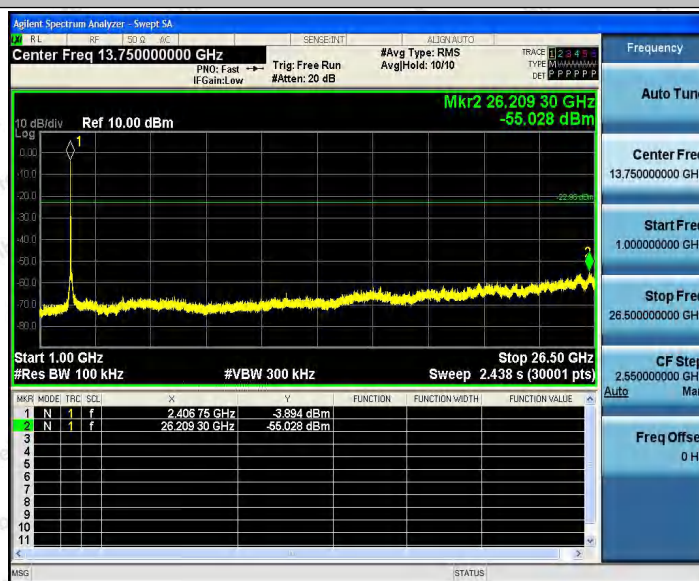
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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



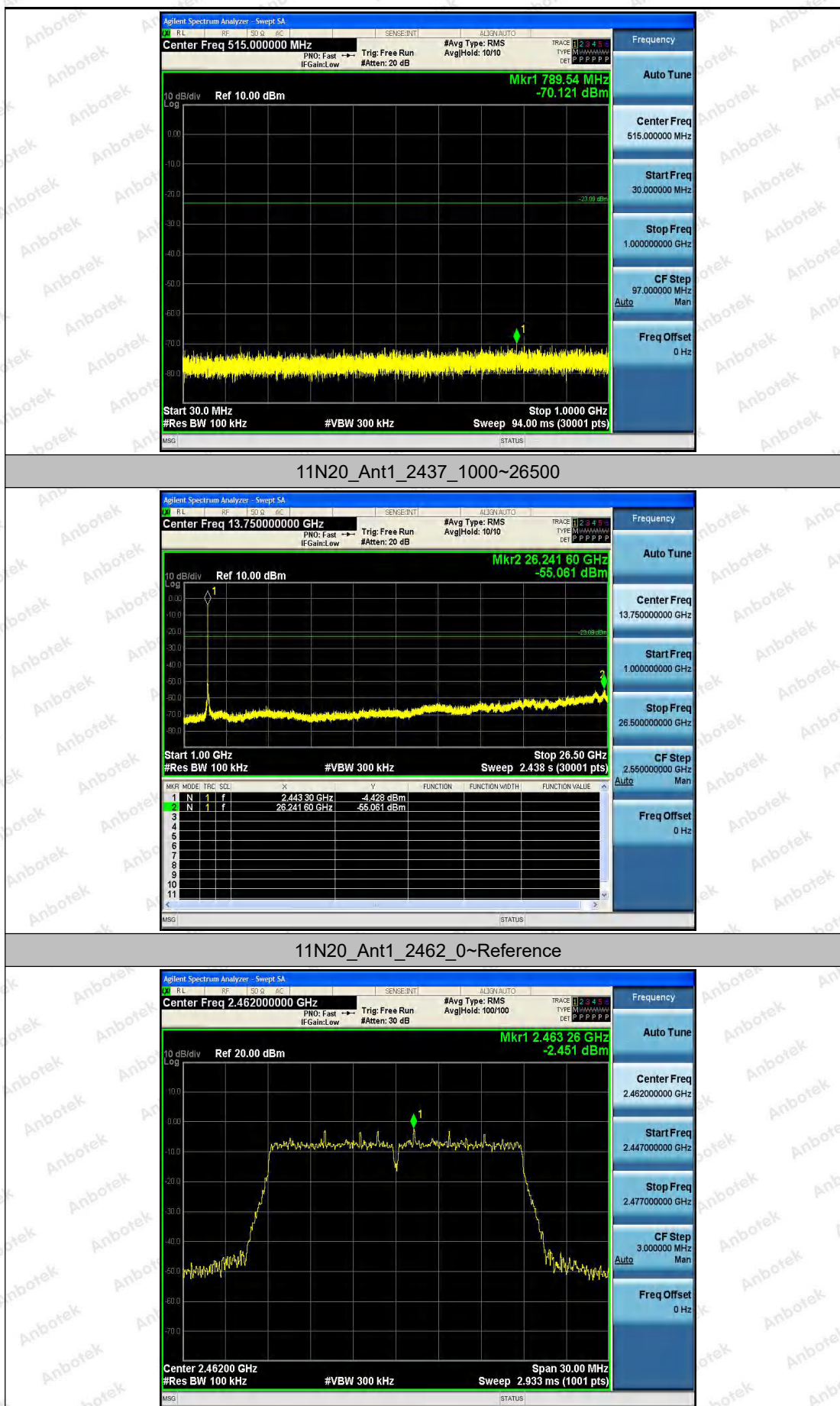
11N20_Ant1_2437_30~1000

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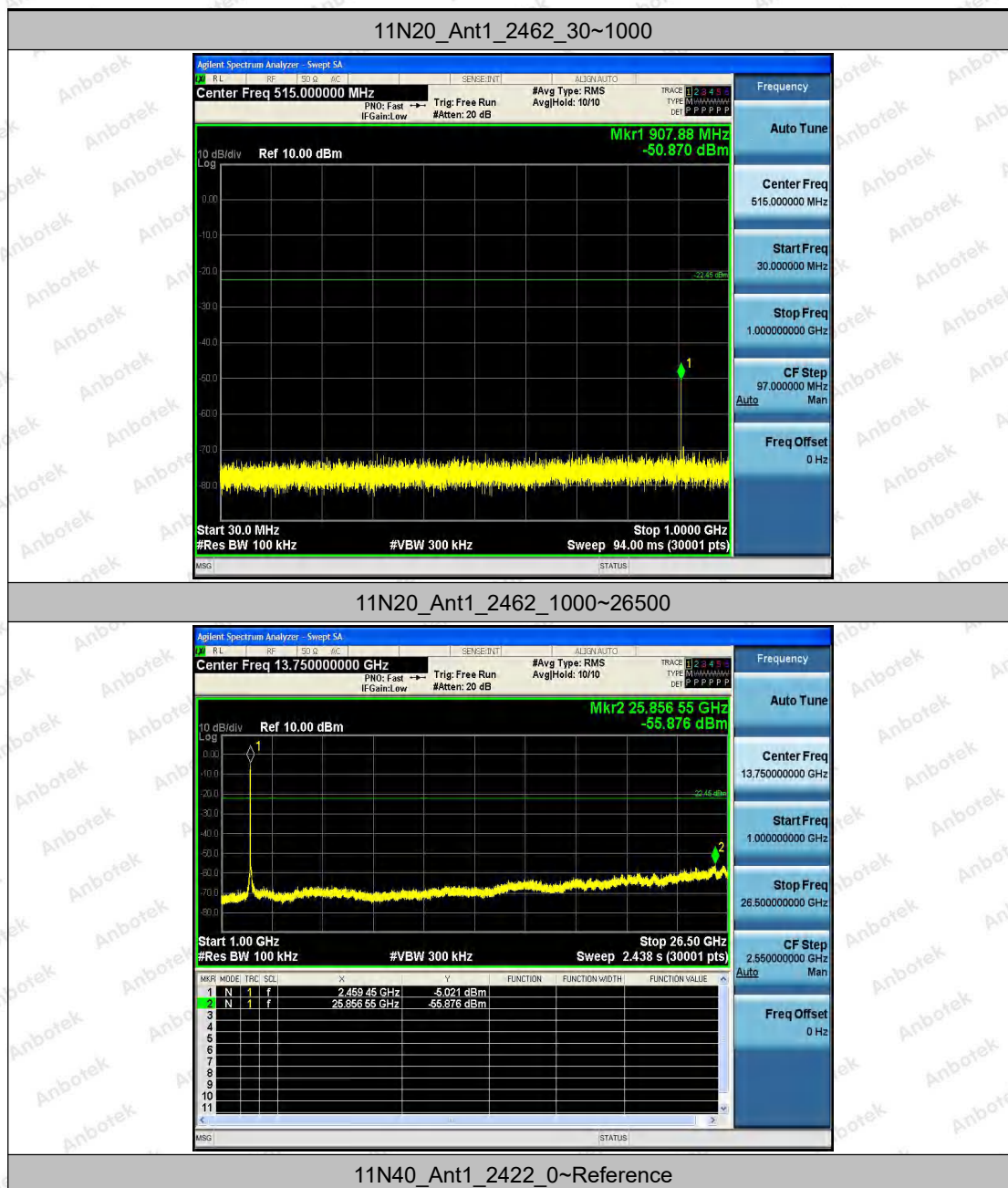


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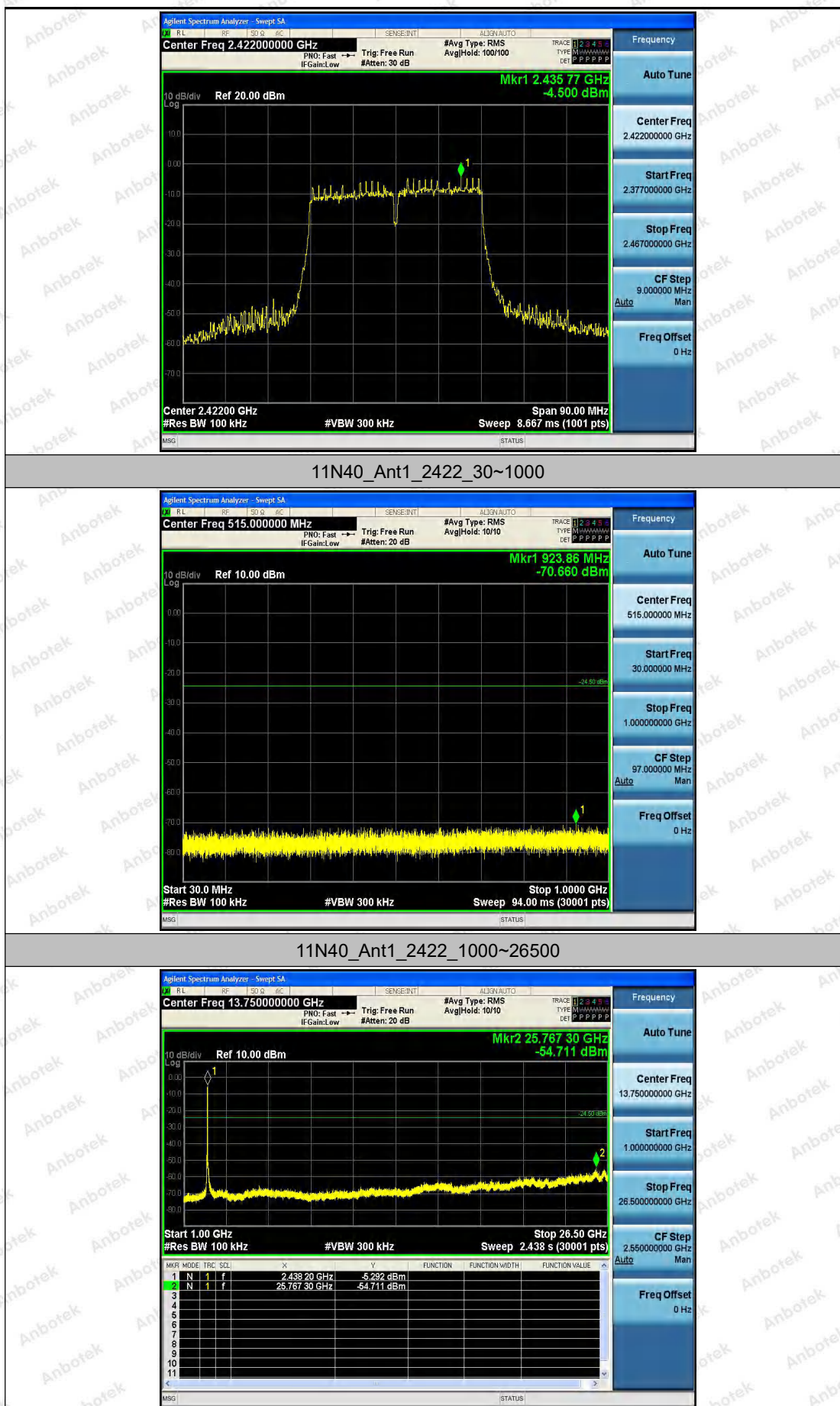


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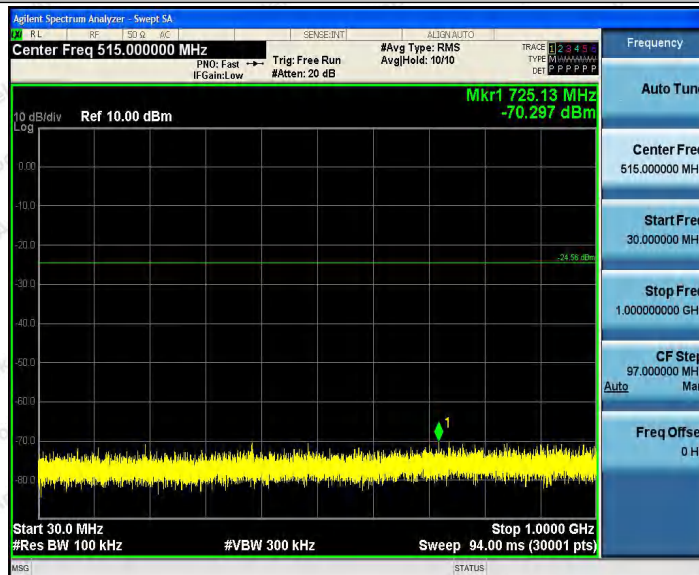
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11N40_Ant1_2437_0~Reference



11N40_Ant1_2437_30~1000



11N40_Ant1_2437_1000~26500

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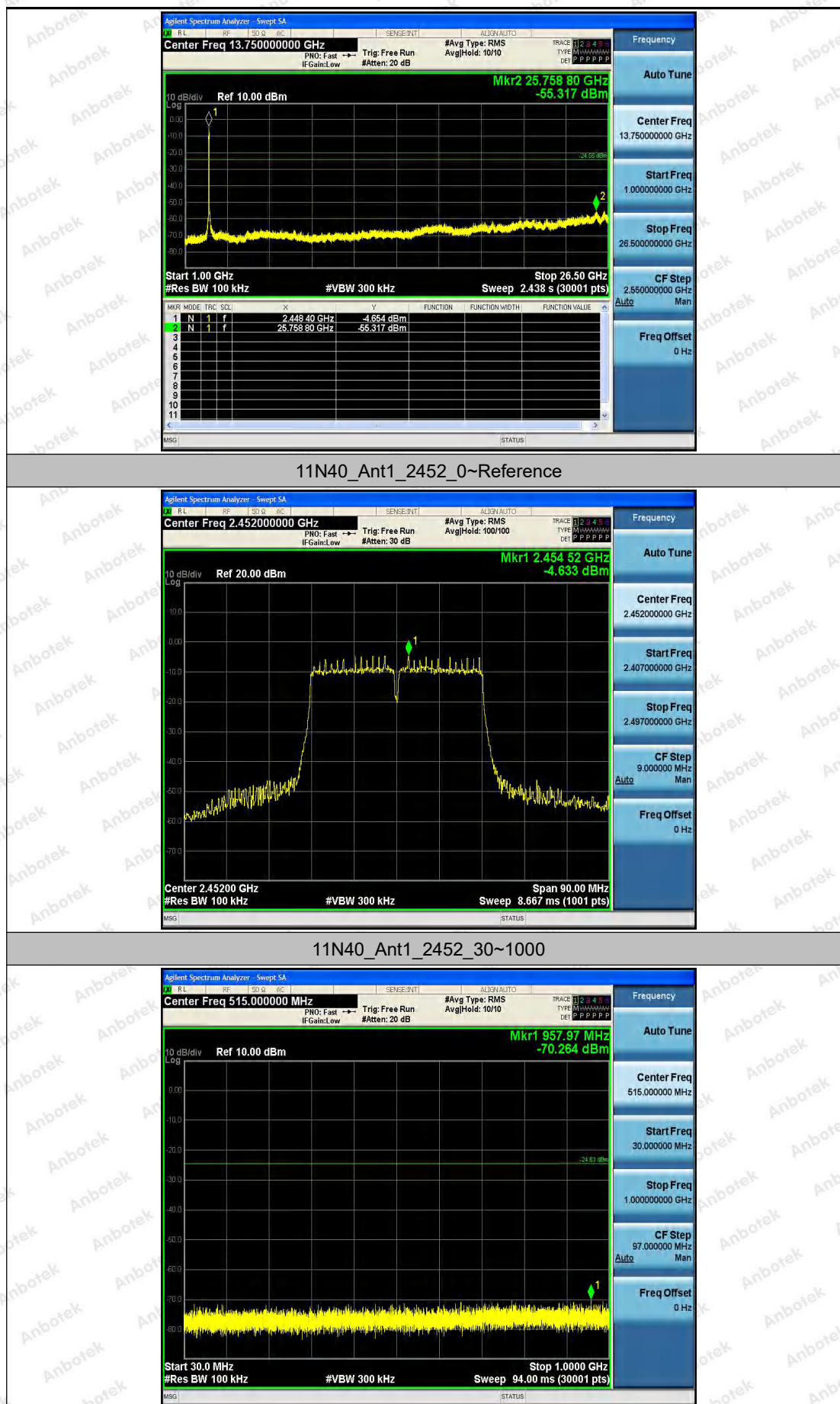
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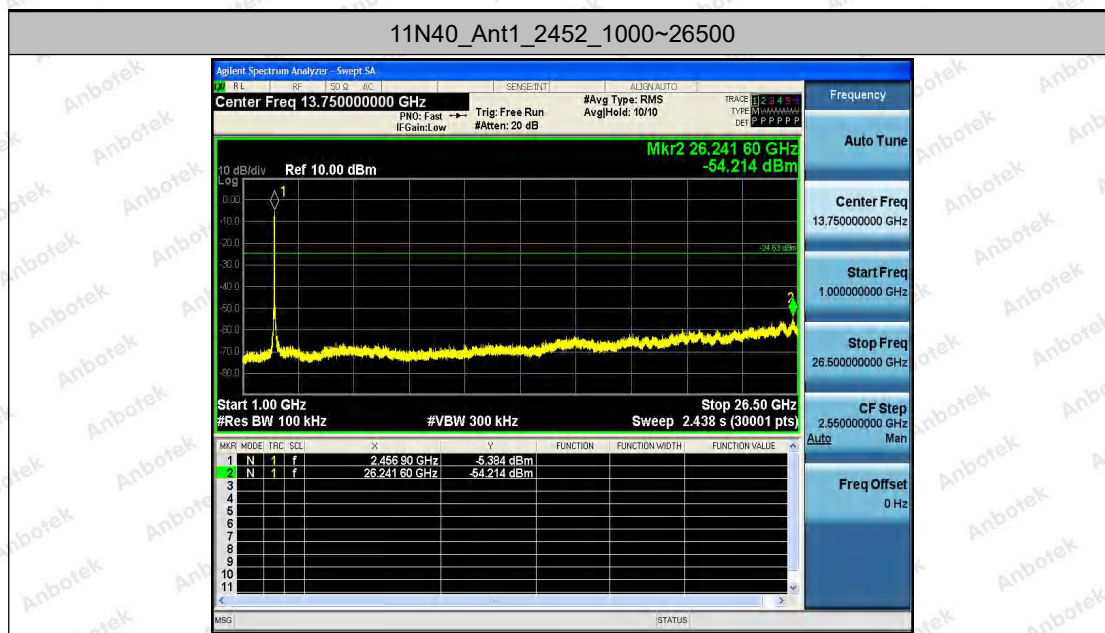


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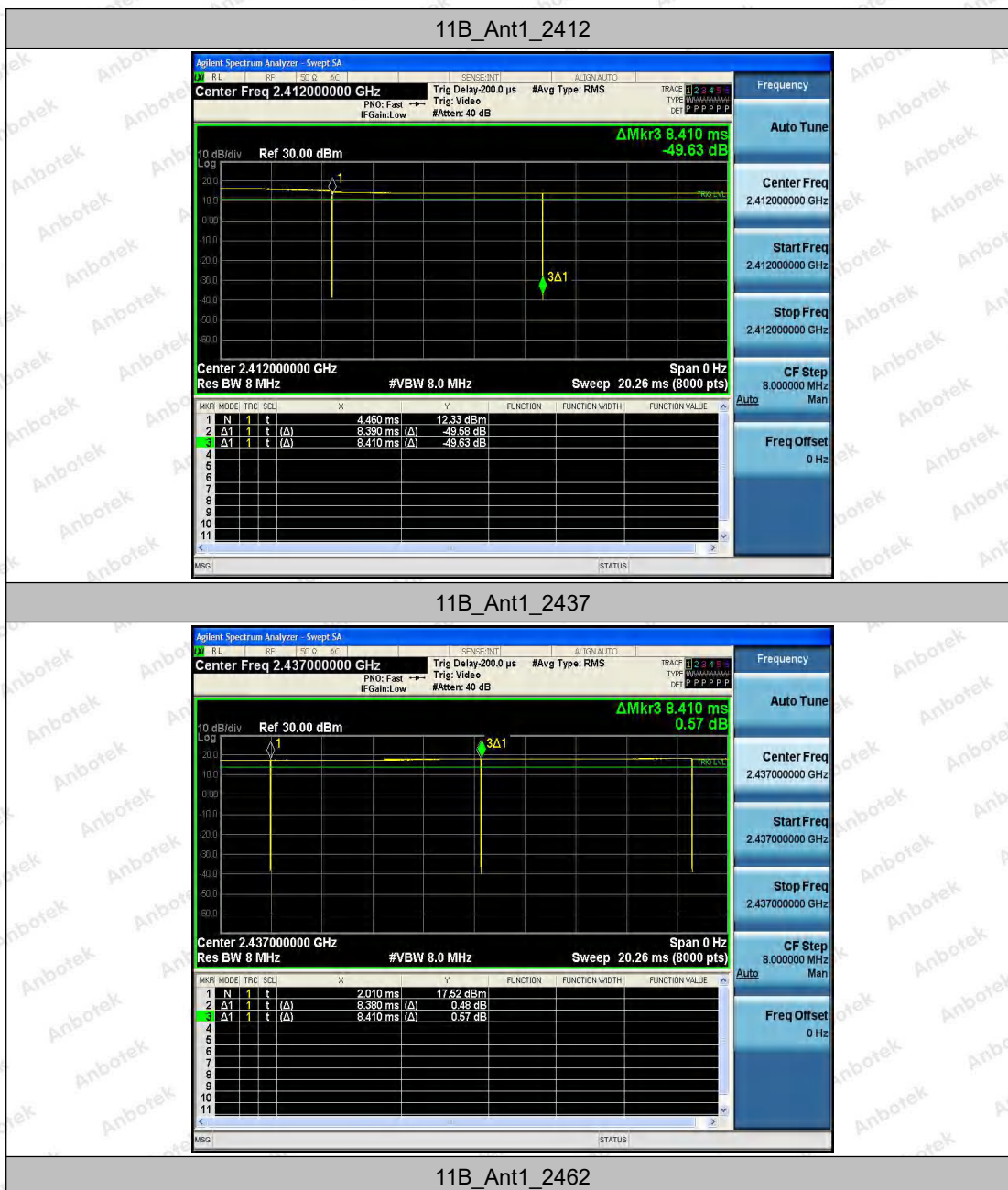
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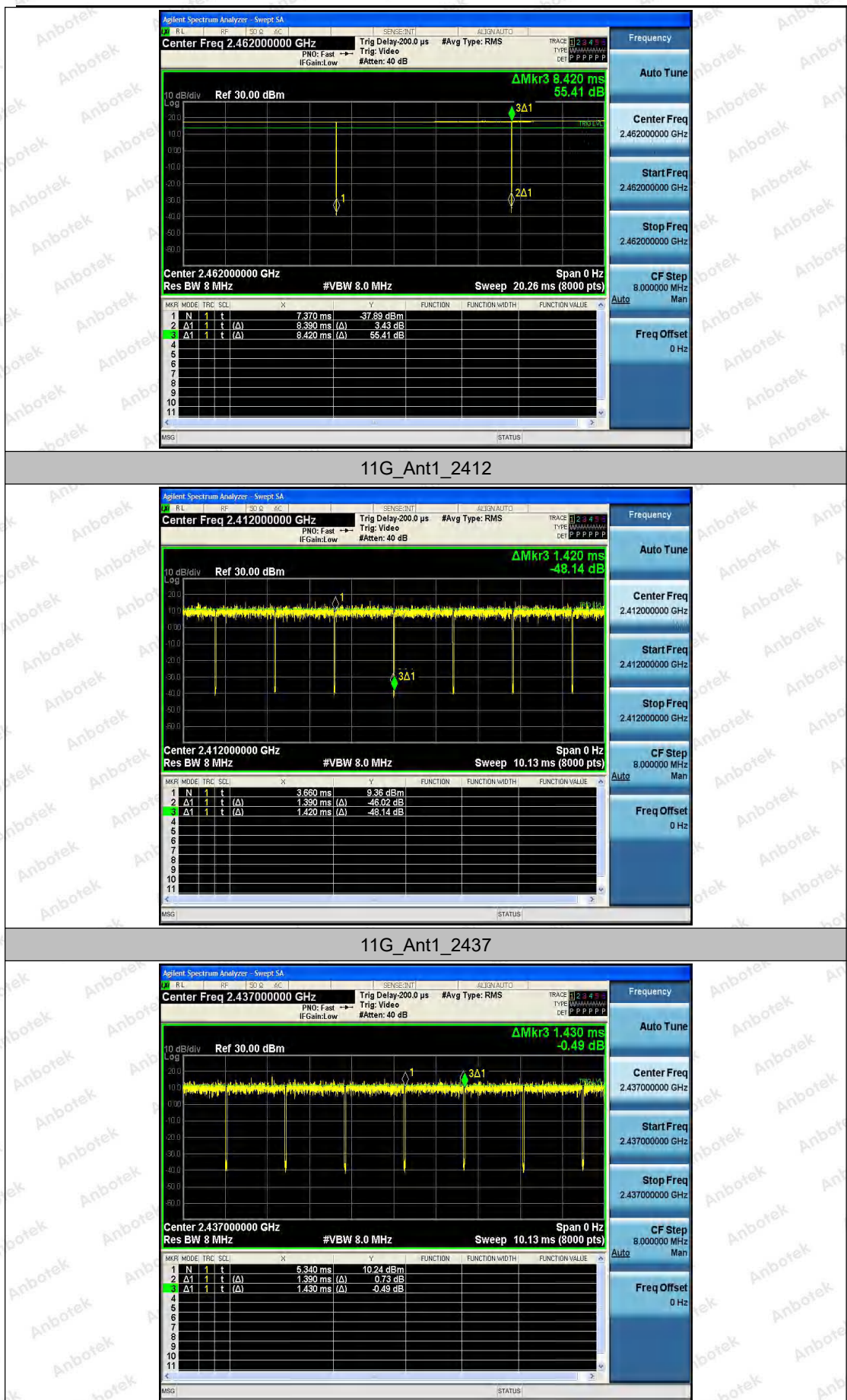
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.41	99.76	---	PASS
		2437	8.38	8.41	99.64	---	PASS
		2462	8.39	8.42	99.64	---	PASS
11G	Ant1	2412	1.39	1.42	97.89	---	PASS
		2437	1.39	1.43	97.20	---	PASS
		2462	1.40	1.43	97.90	---	PASS
11N20	Ant1	2412	1.30	1.34	97.01	---	PASS
		2437	1.30	1.33	97.74	---	PASS
		2462	1.30	1.33	97.74	---	PASS
11N40	Ant1	2422	0.65	0.69	94.20	---	PASS
		2437	0.65	0.68	95.59	---	PASS
		2452	0.65	0.69	94.20	---	PASS

Test Graphs





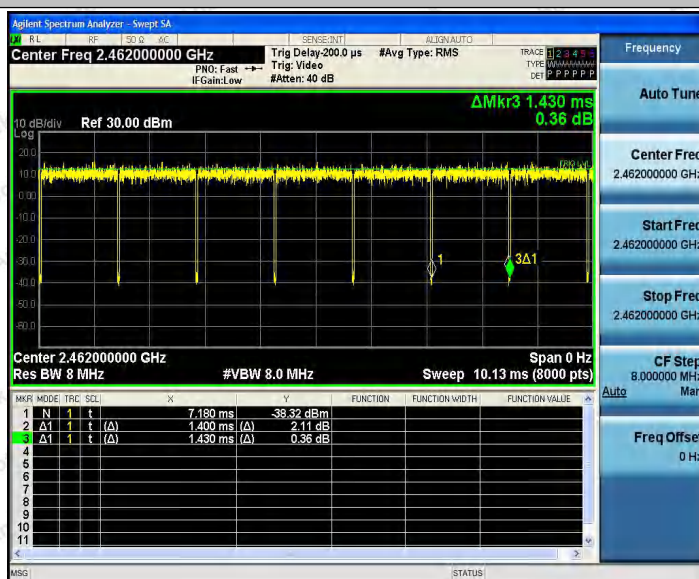
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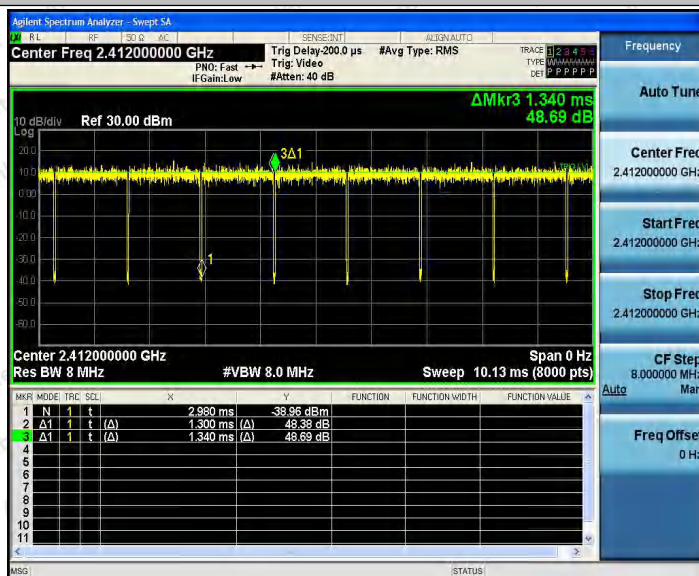
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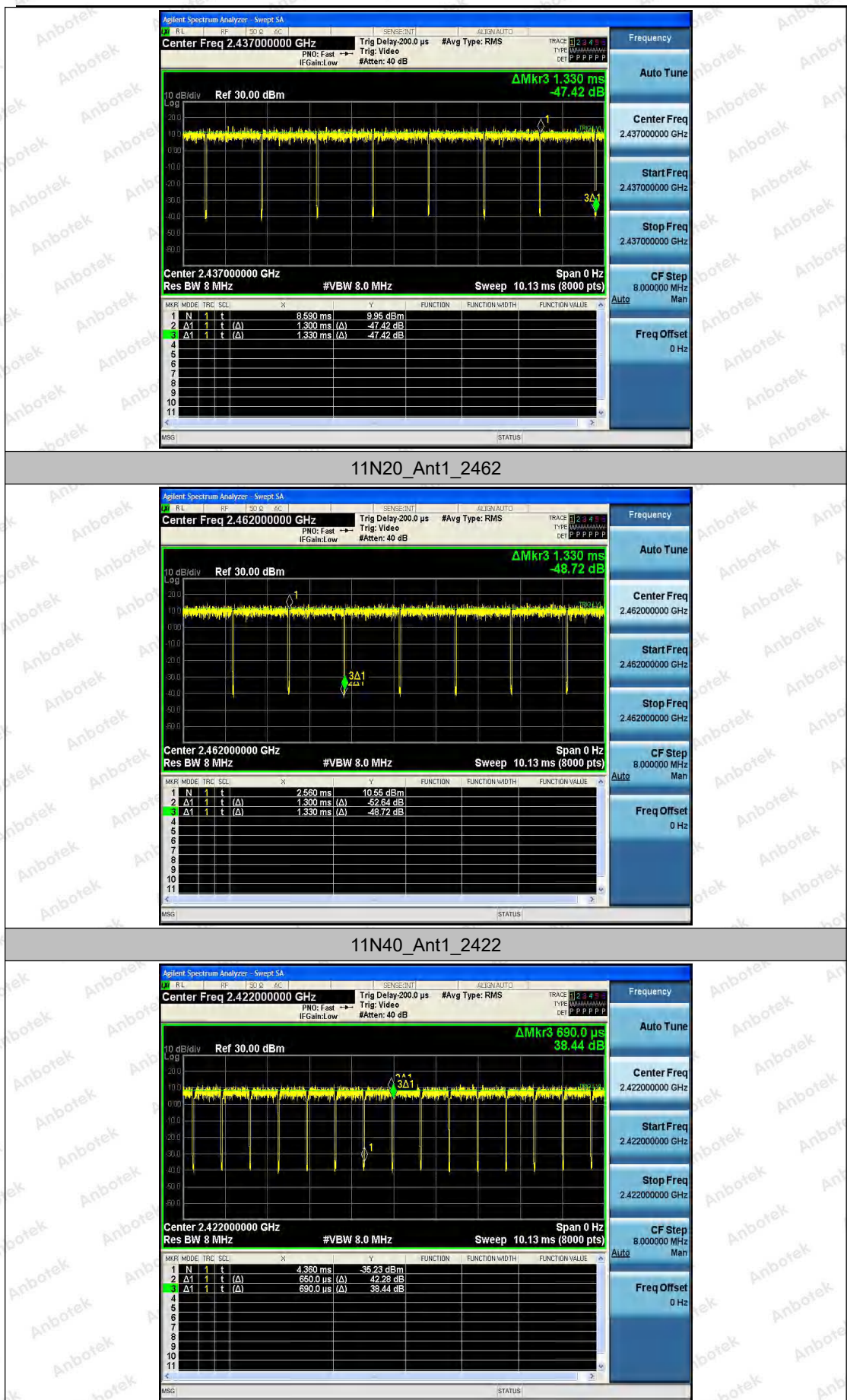
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

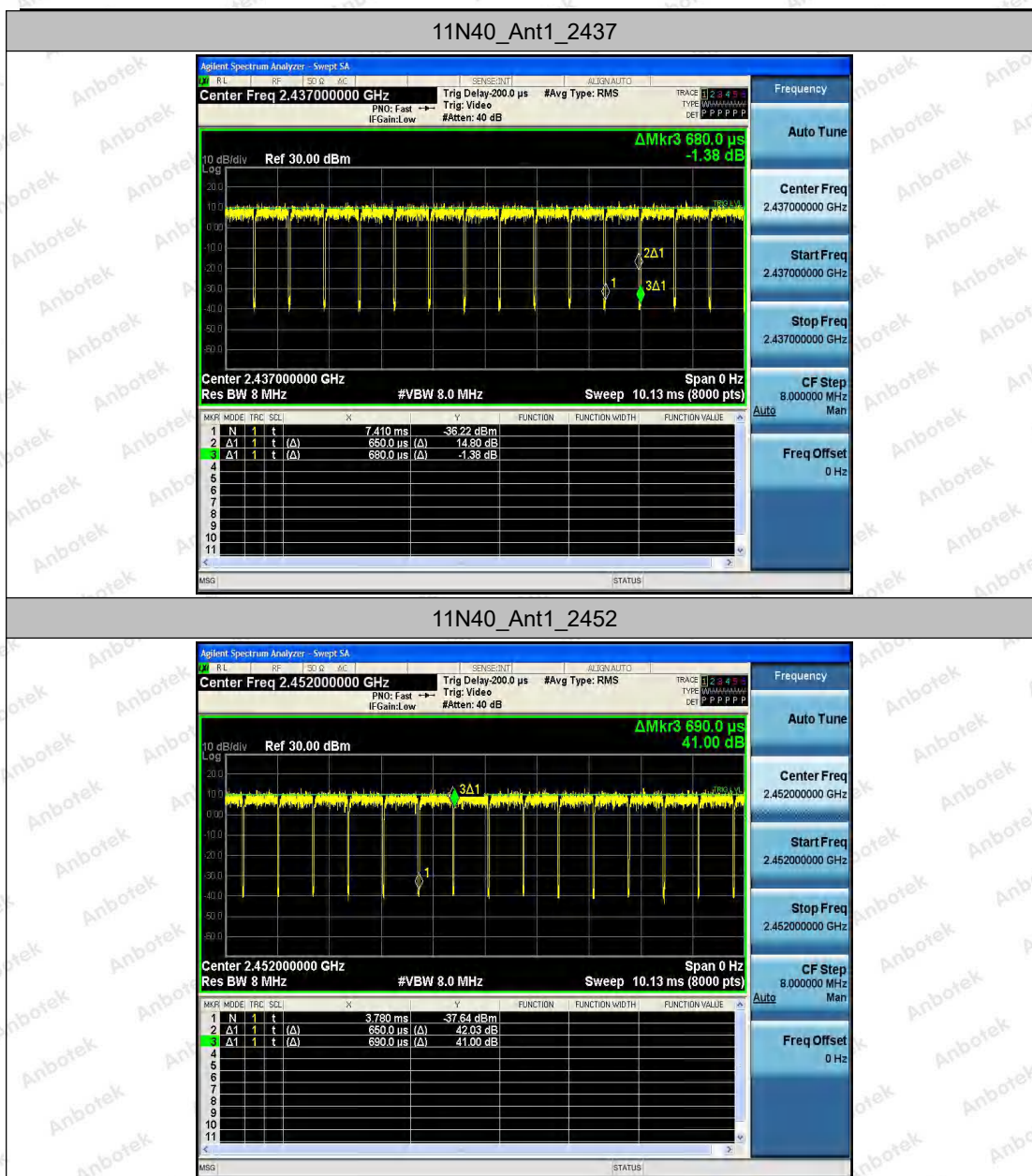


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