

Appendix Test Data

Report No.:	18220WC20091802	Test Sample No.:	1-2-2
Start Test Date:	2022.4.26	Finish Test Date:	2022.4.29
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
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	9.560	2407.480	2417.040	≥0.5	PASS
		2437	10.120	2431.960	2442.080	≥0.5	PASS
		2462	10.080	2456.960	2467.040	≥0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥0.5	PASS
		2437	16.400	2428.800	2445.200	≥0.5	PASS
		2462	16.480	2453.760	2470.240	≥0.5	PASS
11N20	Ant1	2412	17.680	2403.160	2420.840	≥0.5	PASS
		2437	17.640	2428.200	2445.840	≥0.5	PASS
		2462	17.680	2453.160	2470.840	≥0.5	PASS
11N40	Ant1	2422	35.880	2404.360	2440.240	≥0.5	PASS
		2437	35.820	2419.360	2455.180	≥0.5	PASS
		2452	35.760	2434.180	2469.940	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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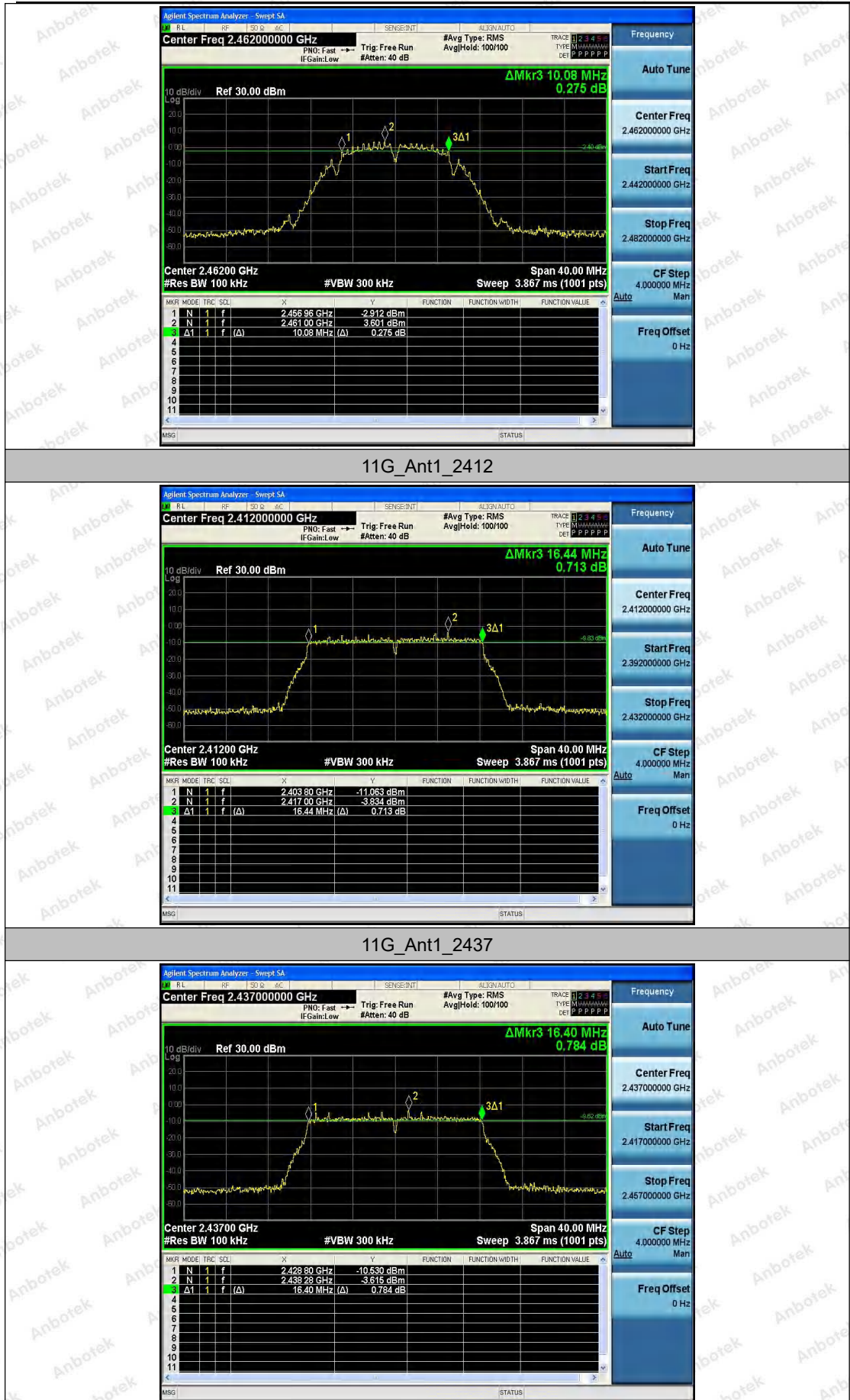
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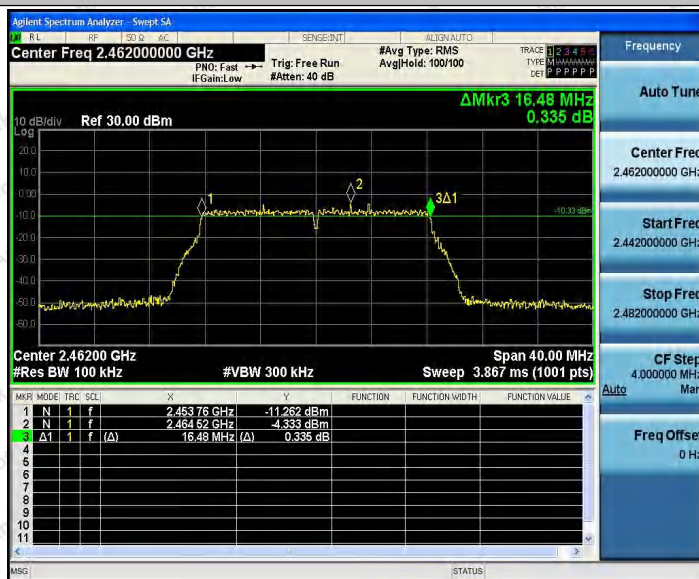
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11G_Ant1_2462



11N20_Ant1_2412



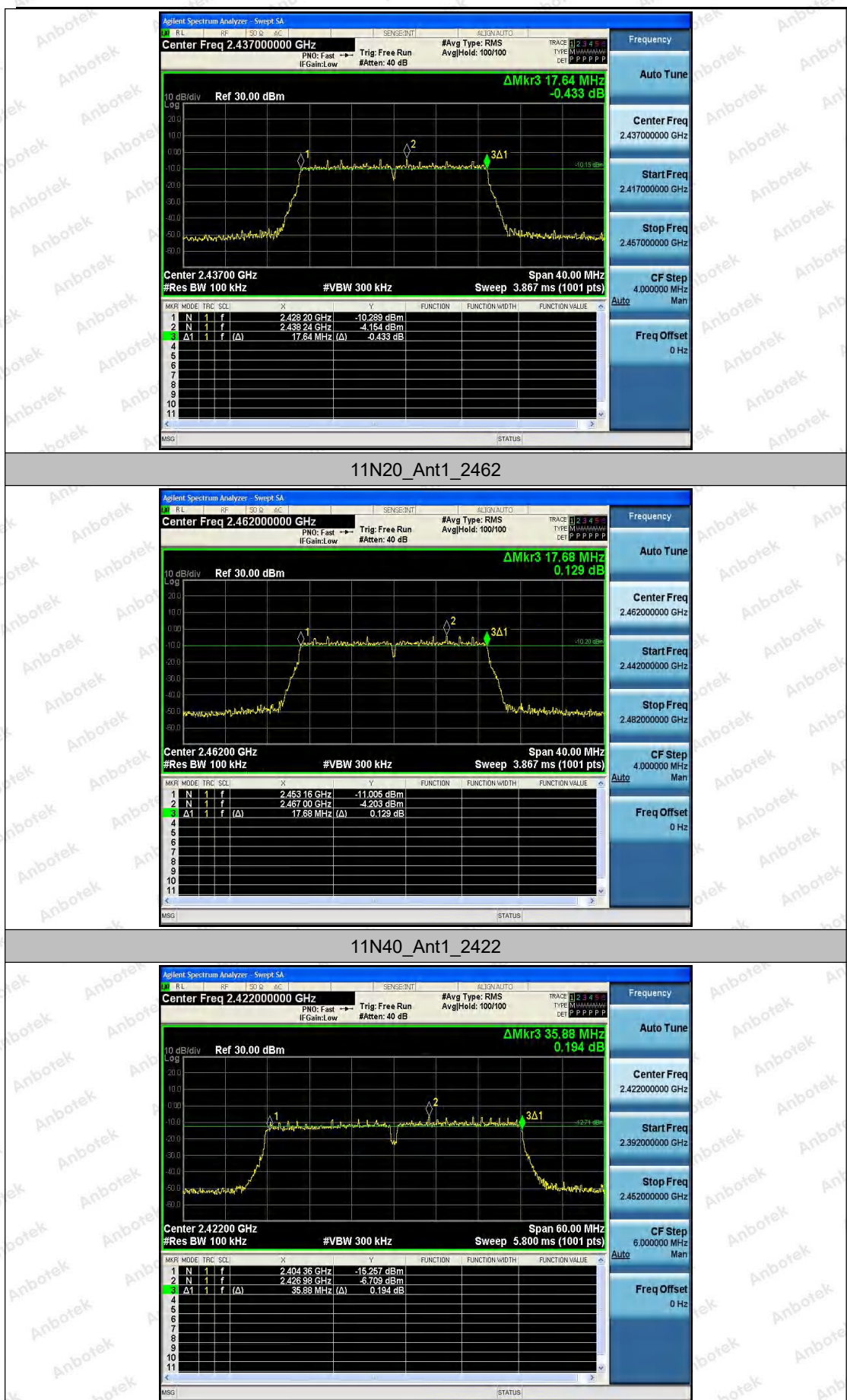
11N20_Ant1_2437

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.355	2405.914	2418.269	---	PASS
		2437	12.268	2430.921	2443.189	---	PASS
		2462	12.297	2455.876	2468.173	---	PASS
11G	Ant1	2412	17.048	2403.557	2420.605	---	PASS
		2437	17.073	2428.519	2445.592	---	PASS
		2462	17.121	2453.466	2470.587	---	PASS
11N20	Ant1	2412	18.007	2403.078	2421.085	---	PASS
		2437	17.960	2428.064	2446.024	---	PASS
		2462	18.006	2453.034	2471.040	---	PASS
11N40	Ant1	2422	36.149	2404.045	2440.194	---	PASS
		2437	36.120	2419.011	2455.131	---	PASS
		2452	36.134	2433.972	2470.106	---	PASS

Test Graphs

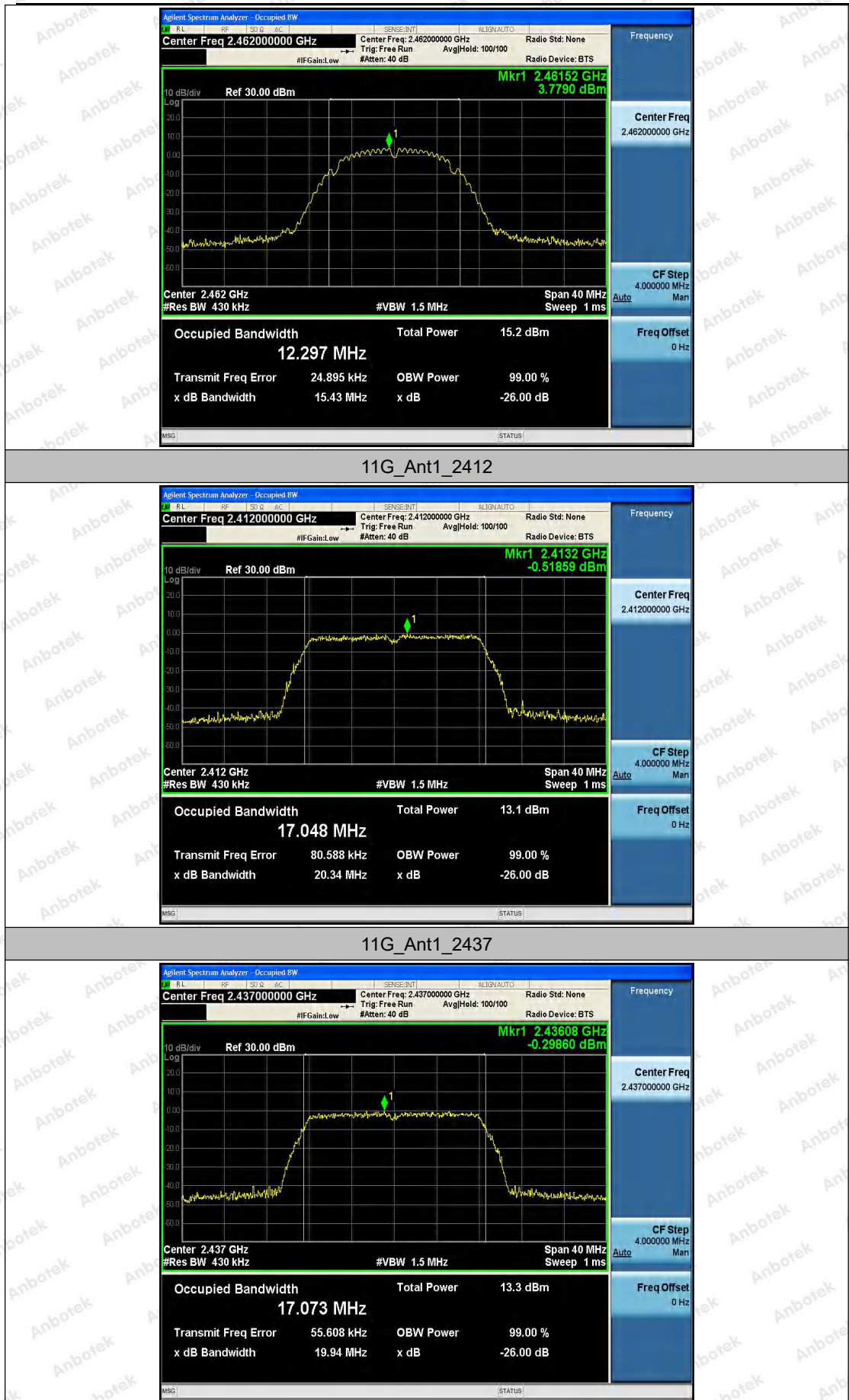


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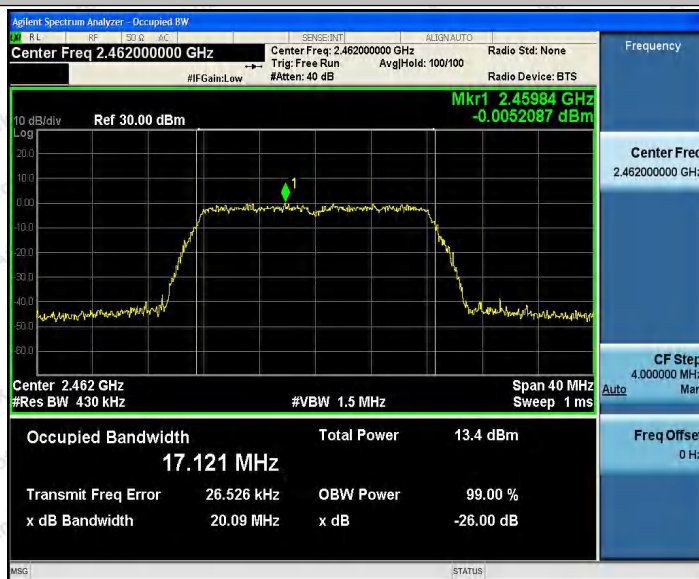
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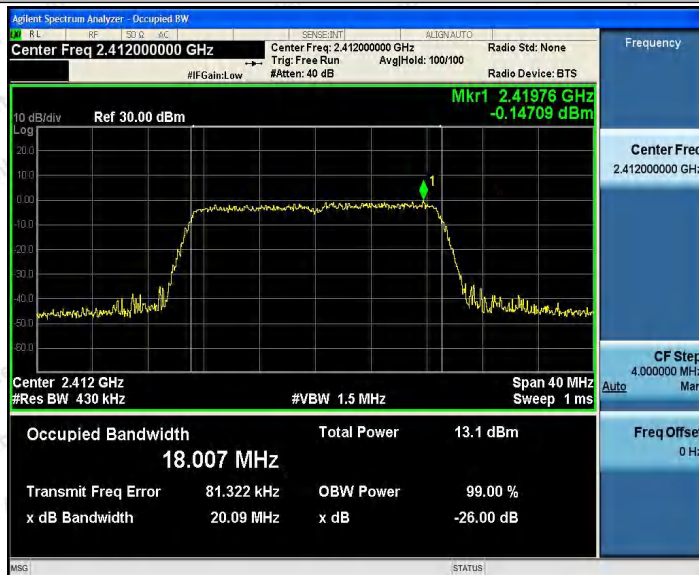
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11G_Ant1_2462



11N20_Ant1_2412



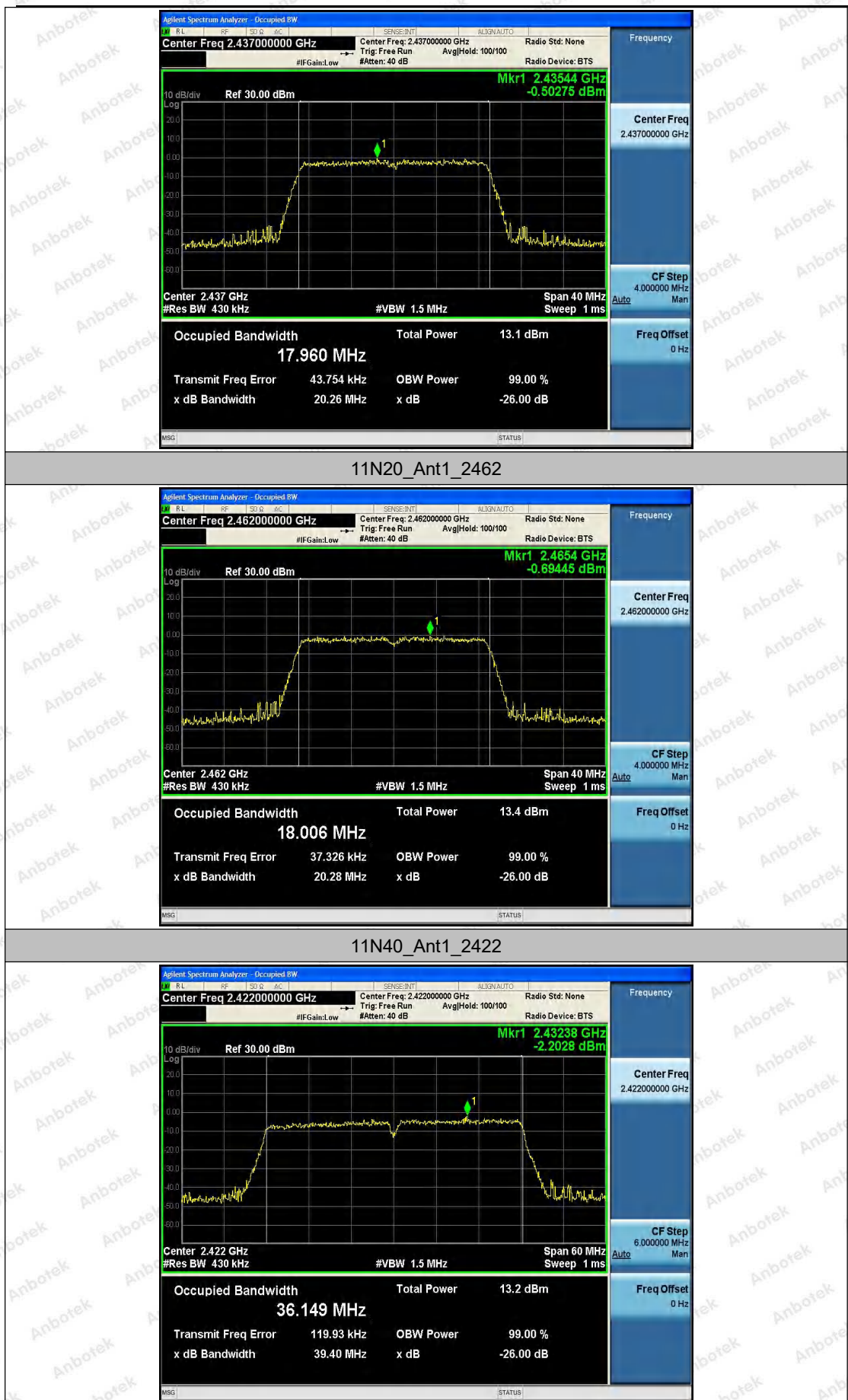
11N20_Ant1_2437

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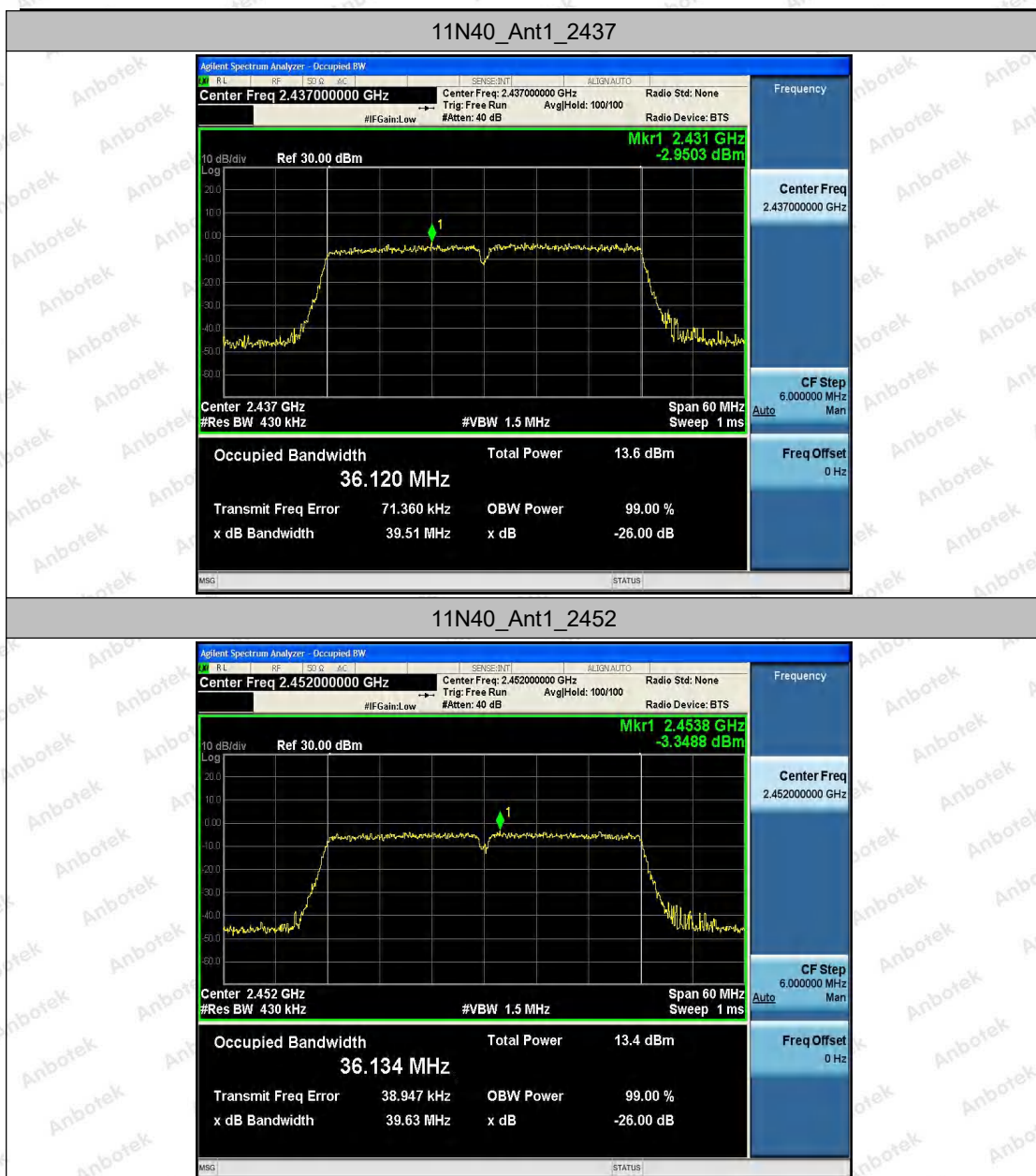


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Appendix C: Maximum conducted output power

Test Result

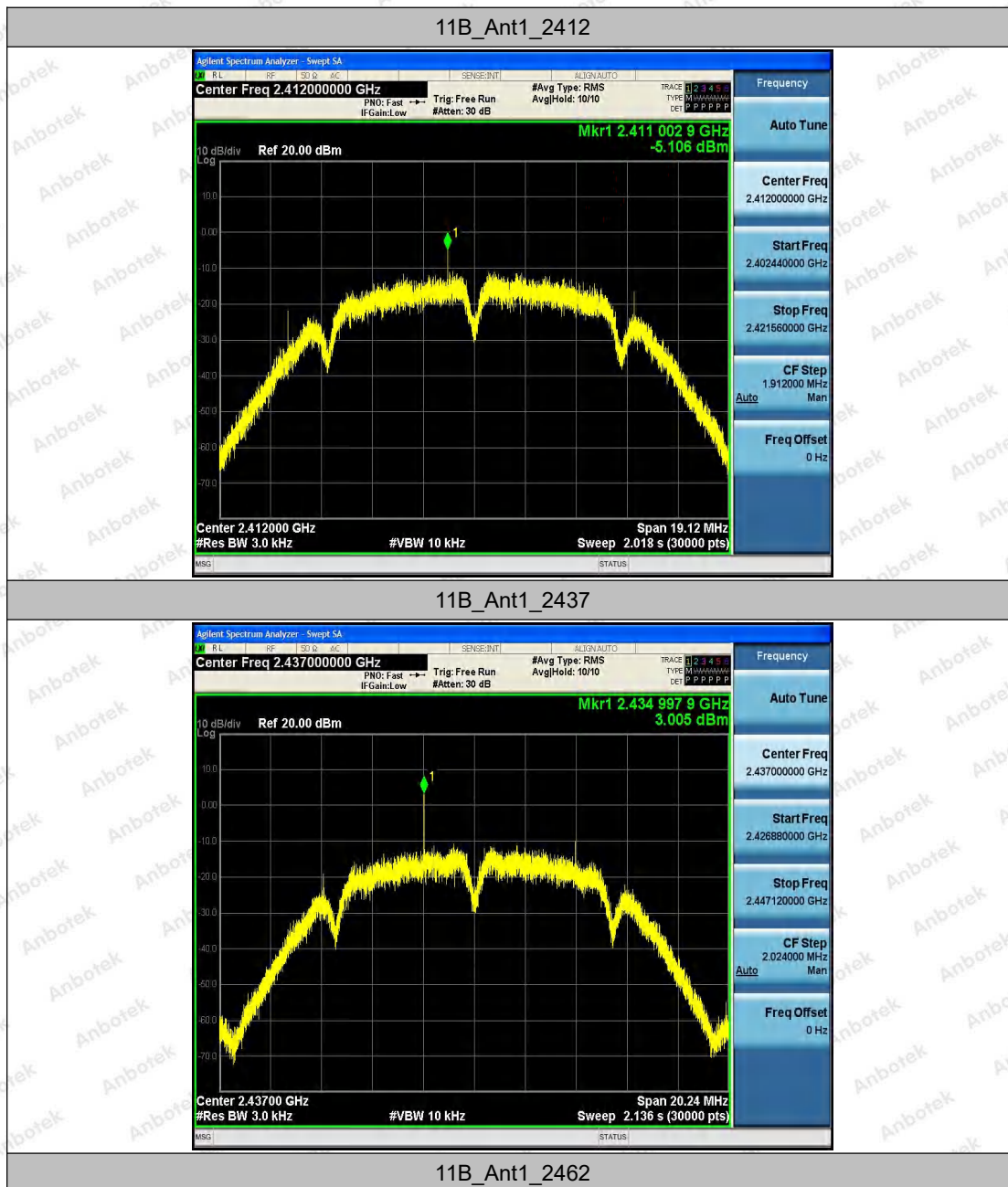
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.22	≤30	PASS
		2437	15.14	≤30	PASS
		2462	15.19	≤30	PASS
11G	Ant1	2412	14.35	≤30	PASS
		2437	14.39	≤30	PASS
		2462	14.54	≤30	PASS
11N20	Ant1	2412	14.29	≤30	PASS
		2437	14.30	≤30	PASS
		2462	14.56	≤30	PASS
11N40	Ant1	2422	11.86	≤30	PASS
		2437	12.27	≤30	PASS
		2452	12.10	≤30	PASS

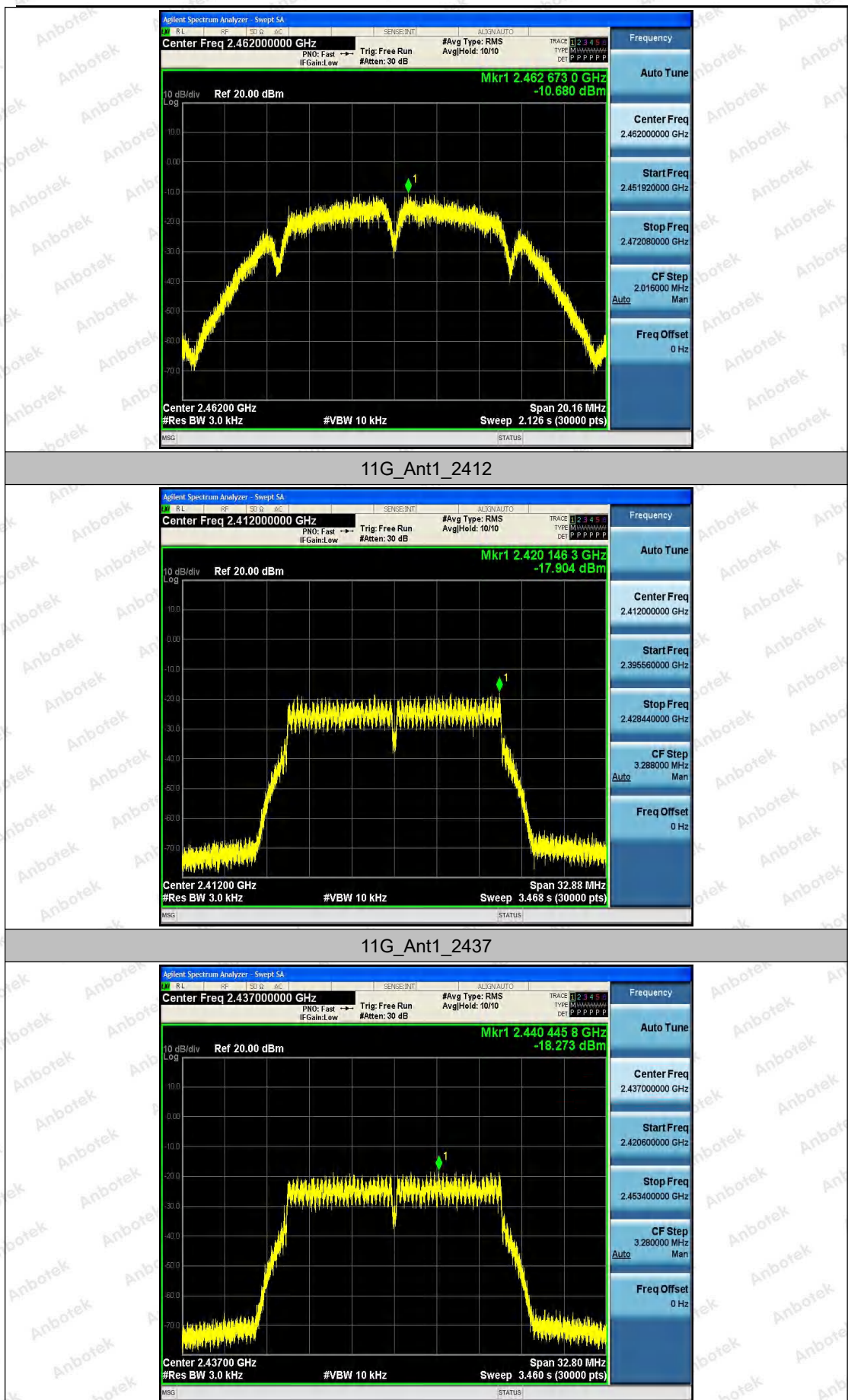
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.11	≤8	PASS
		2437	3.01	≤8	PASS
		2462	-10.68	≤8	PASS
11G	Ant1	2412	-17.9	≤8	PASS
		2437	-18.27	≤8	PASS
		2462	-17.7	≤8	PASS
11N20	Ant1	2412	-18.47	≤8	PASS
		2437	-17.07	≤8	PASS
		2462	-18.23	≤8	PASS
11N40	Ant1	2422	-18.84	≤8	PASS
		2437	-20.4	≤8	PASS
		2452	-20.69	≤8	PASS

Test Graphs





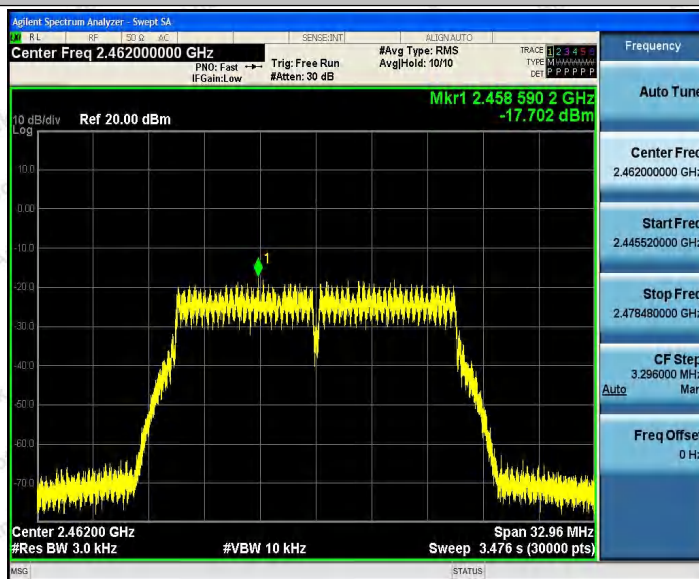
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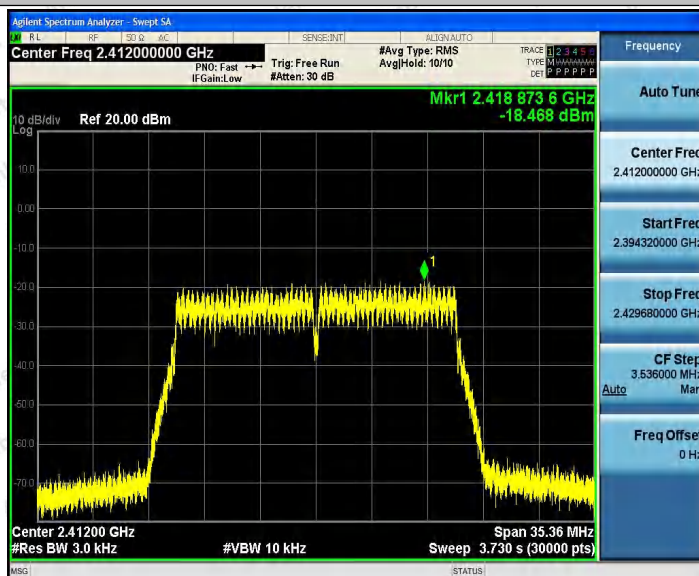
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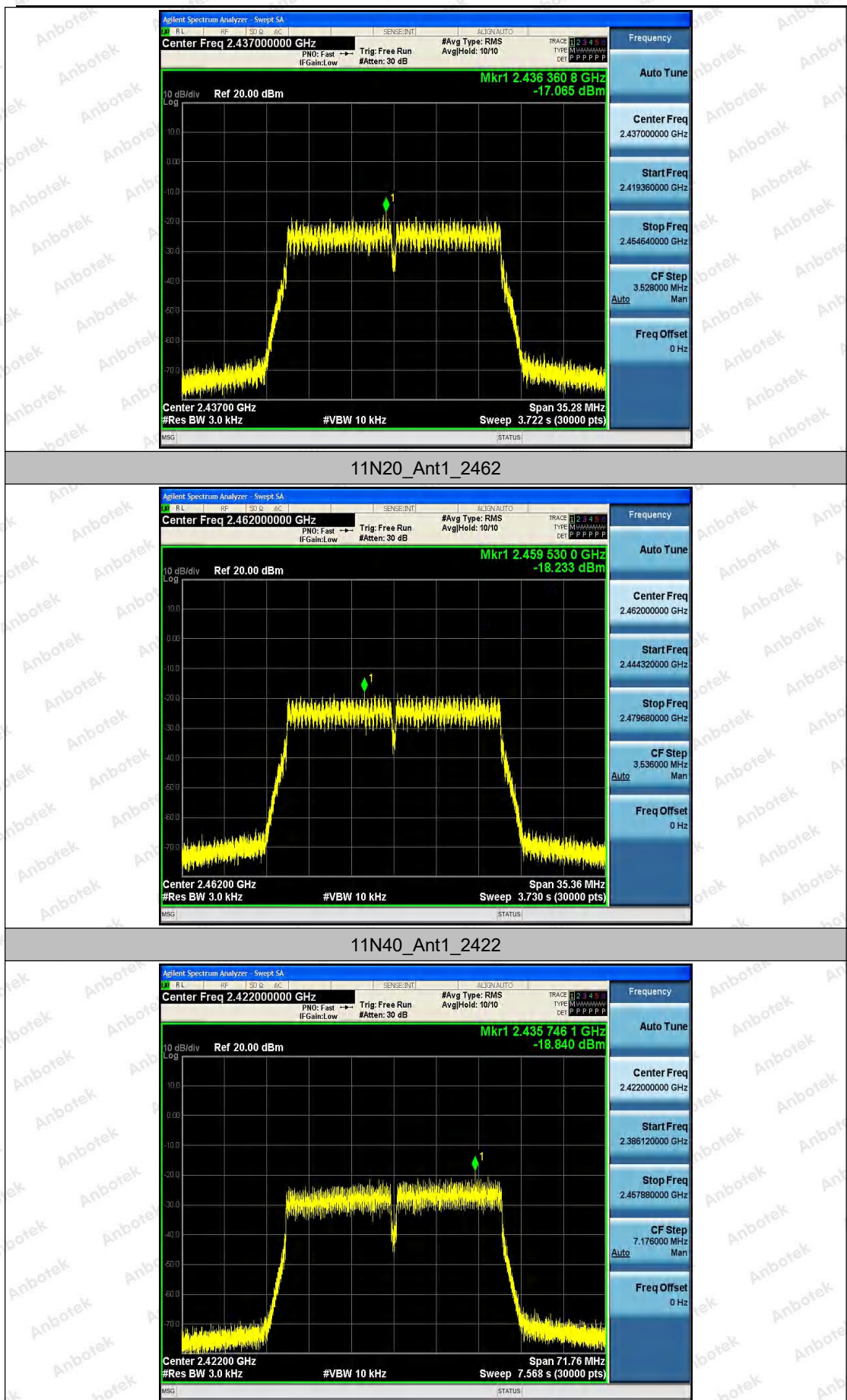
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

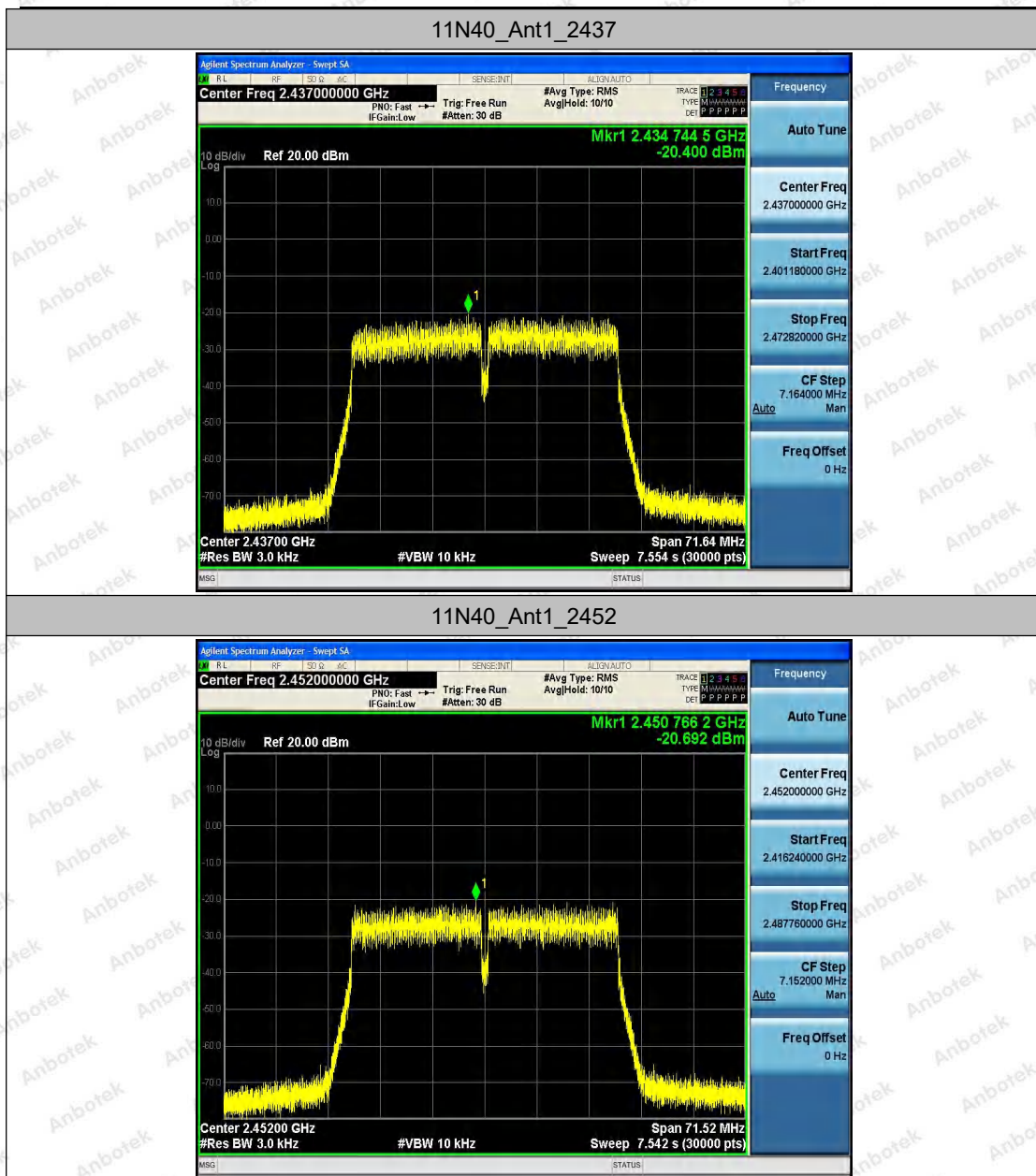


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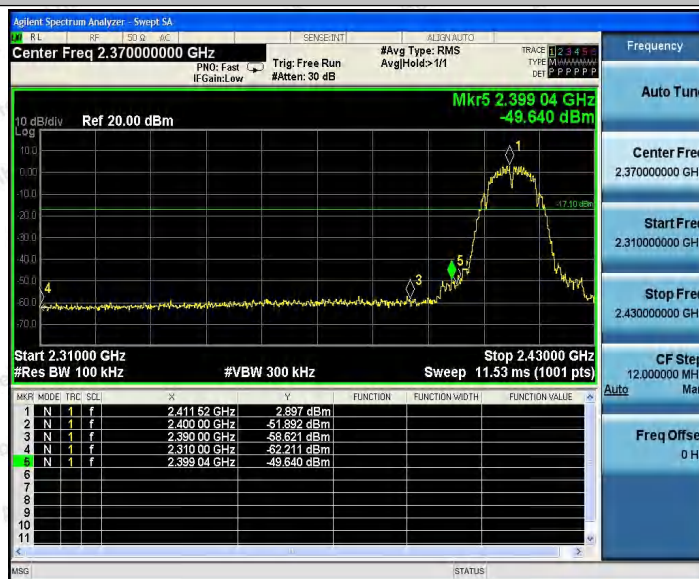
Appendix E: Band edge measurements

Test Result

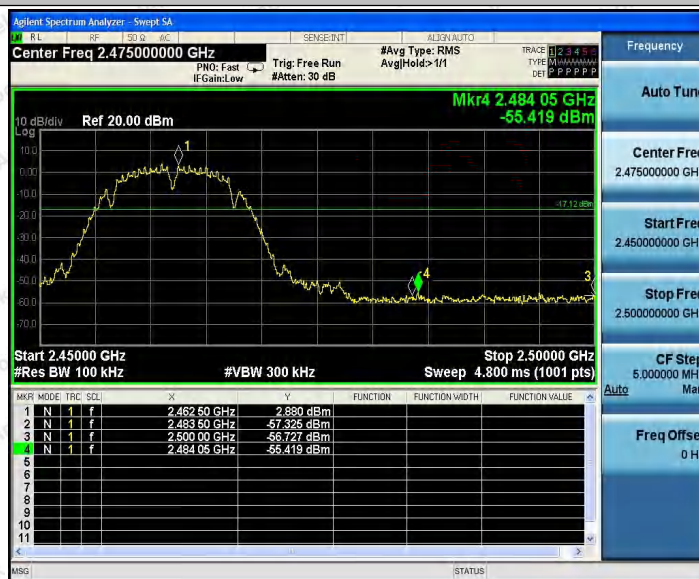
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.90	-49.64	≤ -17.1	PASS
		High	2462	2.88	-55.42	≤ -17.12	PASS
11G	Ant1	Low	2412	-4.25	-49.34	≤ -24.25	PASS
		High	2462	-3.65	-53.37	≤ -23.65	PASS
11N20	Ant1	Low	2412	-4.80	-49.01	≤ -24.8	PASS
		High	2462	-3.38	-51.31	≤ -23.38	PASS
11N40	Ant1	Low	2422	-6.27	-49.41	≤ -26.27	PASS
		High	2452	-6.82	-50.47	≤ -26.82	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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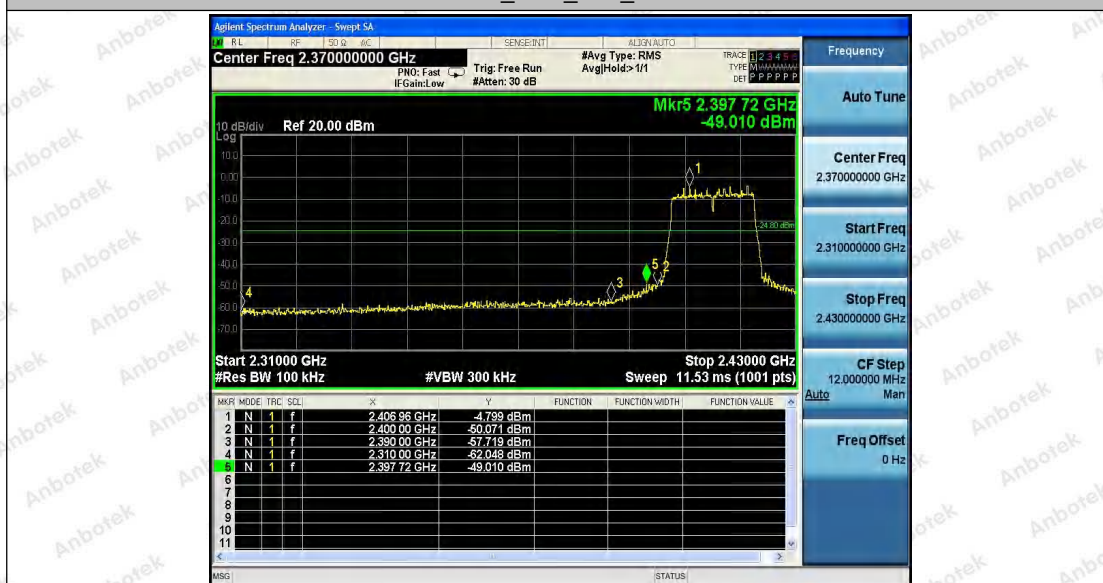
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11G_Ant1_High_2462



11N20_Ant1_Low_2412



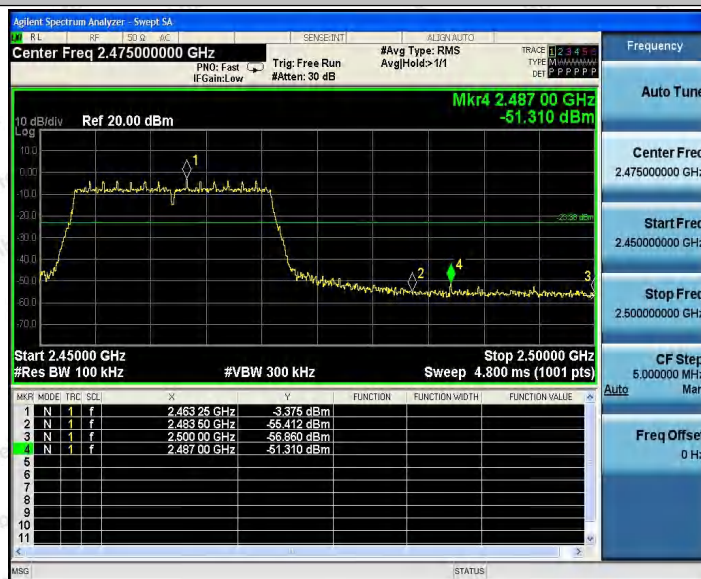
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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



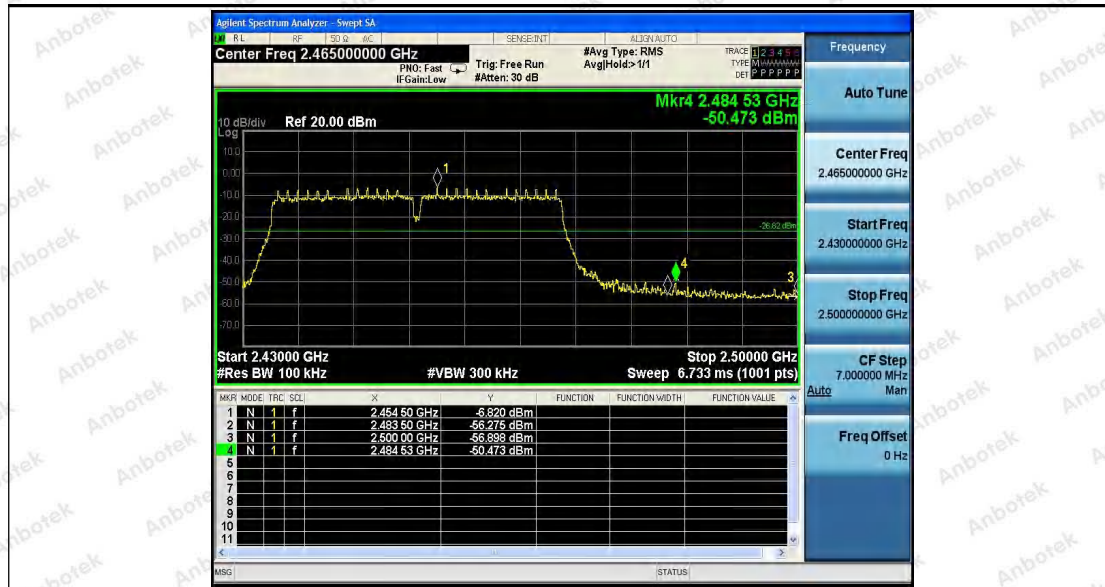
11N40_Ant1_High_2452

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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	3.18	3.18	---	PASS
			30~1000	3.18	-69.98	≤-16.82	PASS
			1000~26500	3.18	-52.61	≤-16.82	PASS
		2437	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-70.04	≤-17.09	PASS
			1000~26500	2.91	-56.06	≤-17.09	PASS
		2462	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-69.76	≤-16.84	PASS
			1000~26500	3.16	-55.35	≤-16.84	PASS
11G	Ant1	2412	Reference	-4.28	-4.28	---	PASS
			30~1000	-4.28	-70.63	≤-24.28	PASS
			1000~26500	-4.28	-55.57	≤-24.28	PASS
		2437	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-70.89	≤-23.95	PASS
			1000~26500	-3.95	-55.39	≤-23.95	PASS
		2462	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-70.18	≤-24.13	PASS
			1000~26500	-4.13	-55.63	≤-24.13	PASS
11N20	Ant1	2412	Reference	-4.01	-4.01	---	PASS
			30~1000	-4.01	-70.26	≤-24.01	PASS
			1000~26500	-4.01	-51.88	≤-24.01	PASS
		2437	Reference	-3.93	-3.93	---	PASS
			30~1000	-3.93	-70.14	≤-23.93	PASS
			1000~26500	-3.93	-55.76	≤-23.93	PASS
		2462	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-70.53	≤-23.82	PASS
			1000~26500	-3.82	-55.01	≤-23.82	PASS
11N40	Ant1	2422	Reference	-6.26	-6.26	---	PASS
			30~1000	-6.26	-69.62	≤-26.26	PASS
			1000~26500	-6.26	-55.89	≤-26.26	PASS
		2437	Reference	-6.35	-6.35	---	PASS
			30~1000	-6.35	-70.27	≤-26.35	PASS
			1000~26500	-6.35	-55.32	≤-26.35	PASS
		2452	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-69.64	≤-26.74	PASS
			1000~26500	-6.74	-55.83	≤-26.74	PASS

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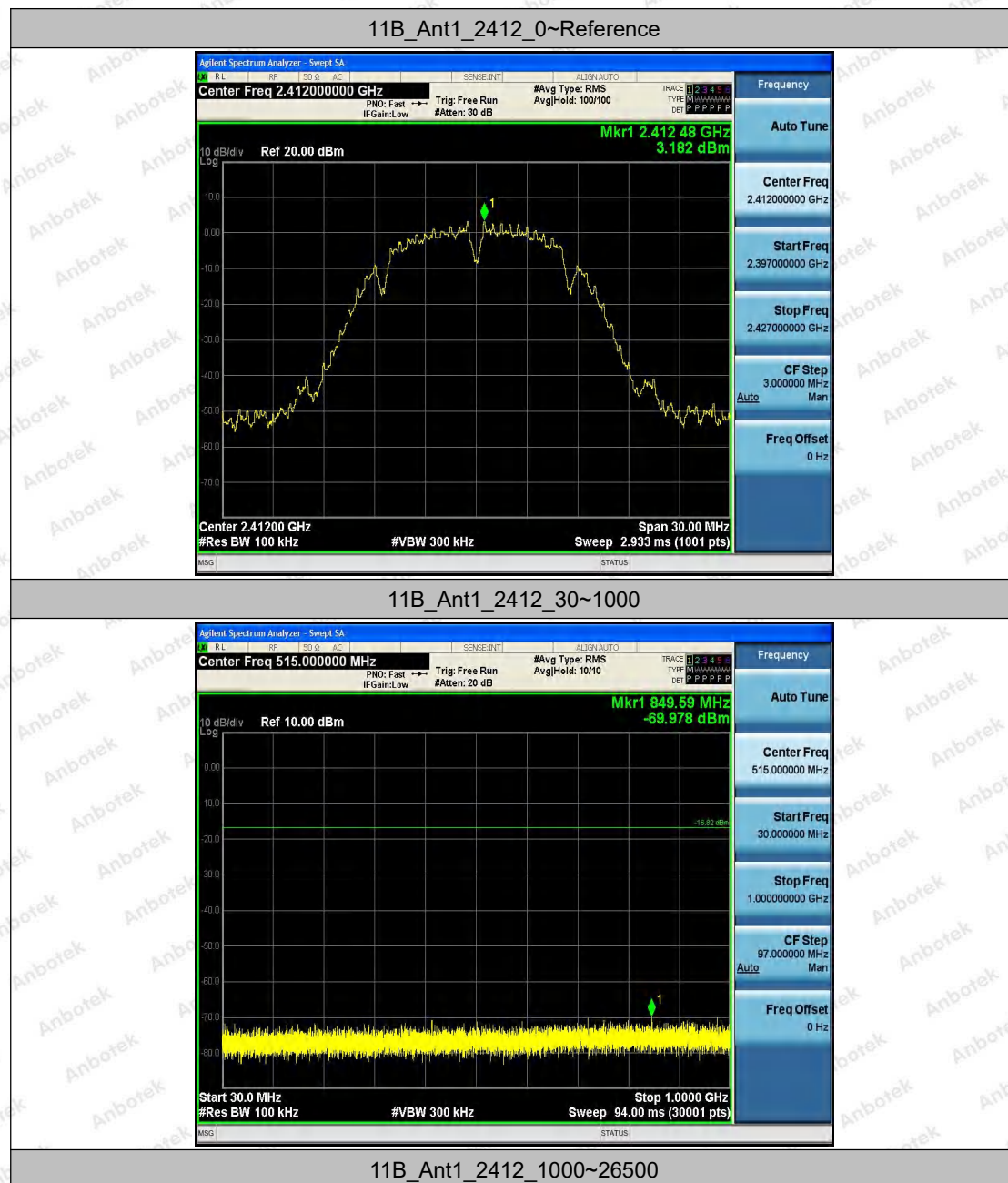


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Test Graphs

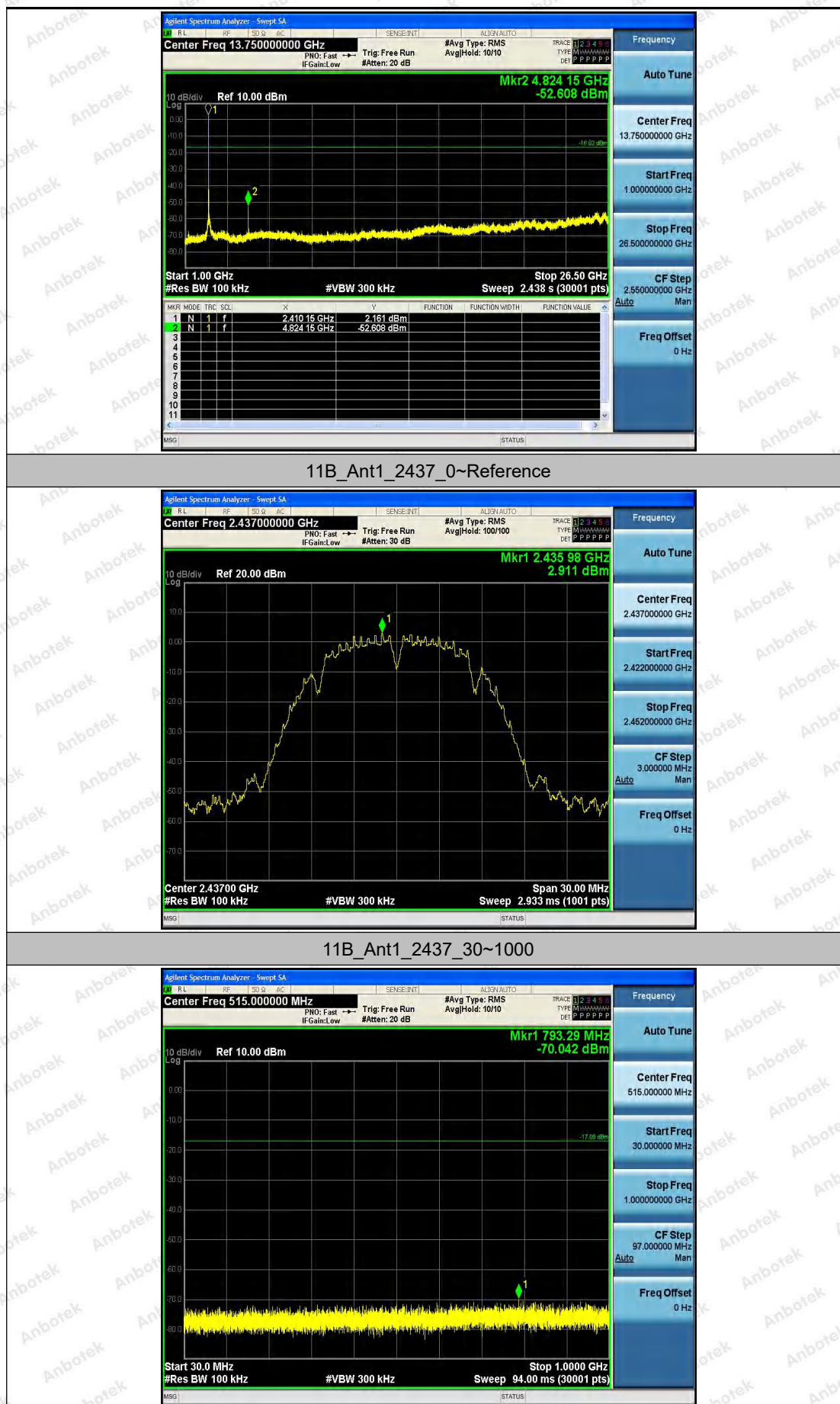


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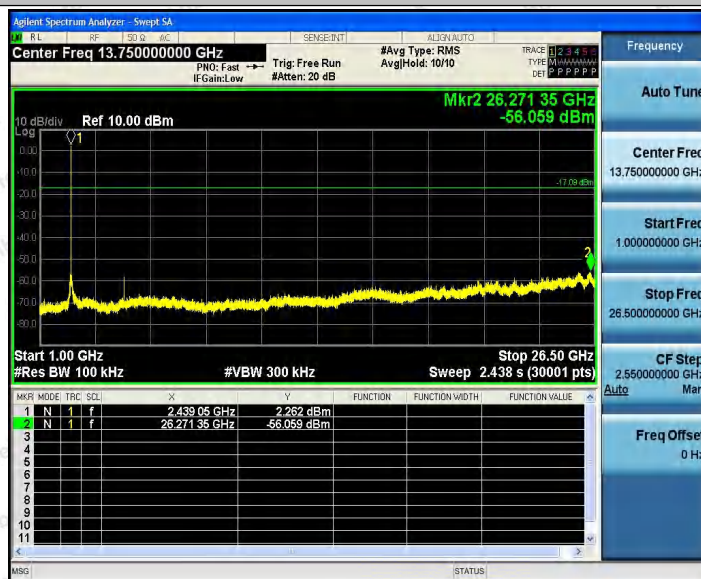
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

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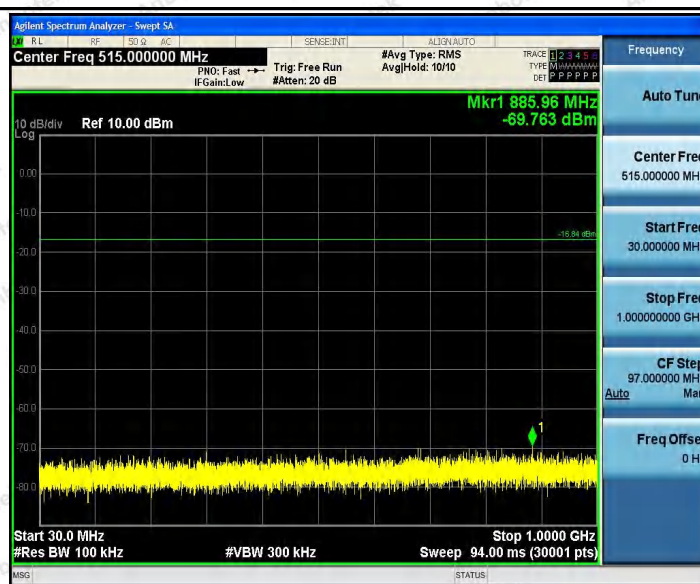
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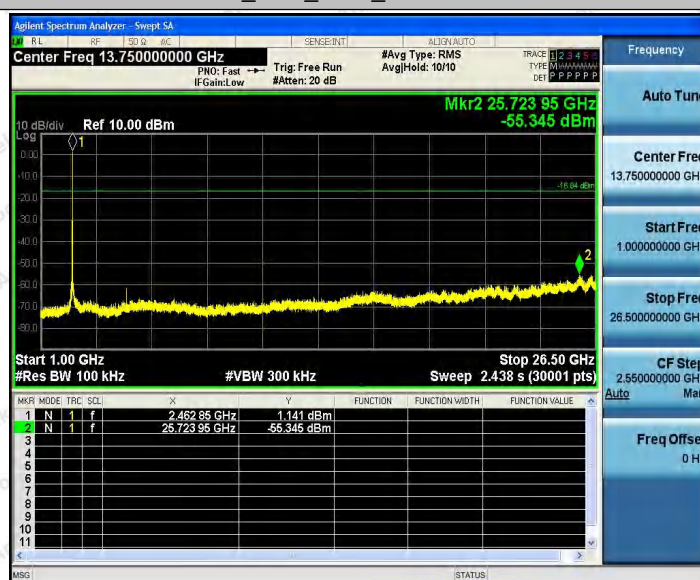
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11B	Ant1	2462	1000~26500
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11G Ant1 2412 0~Reference



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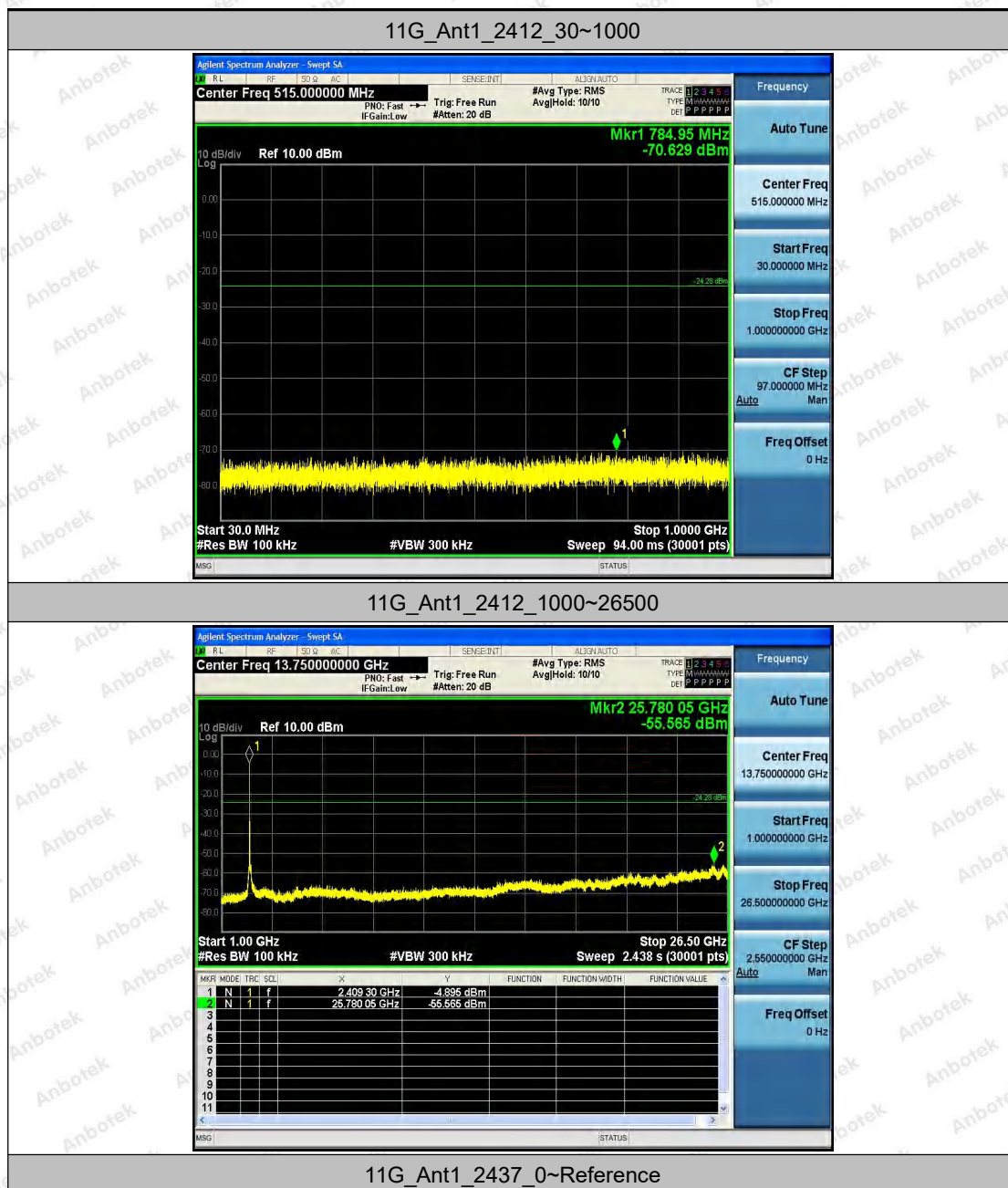
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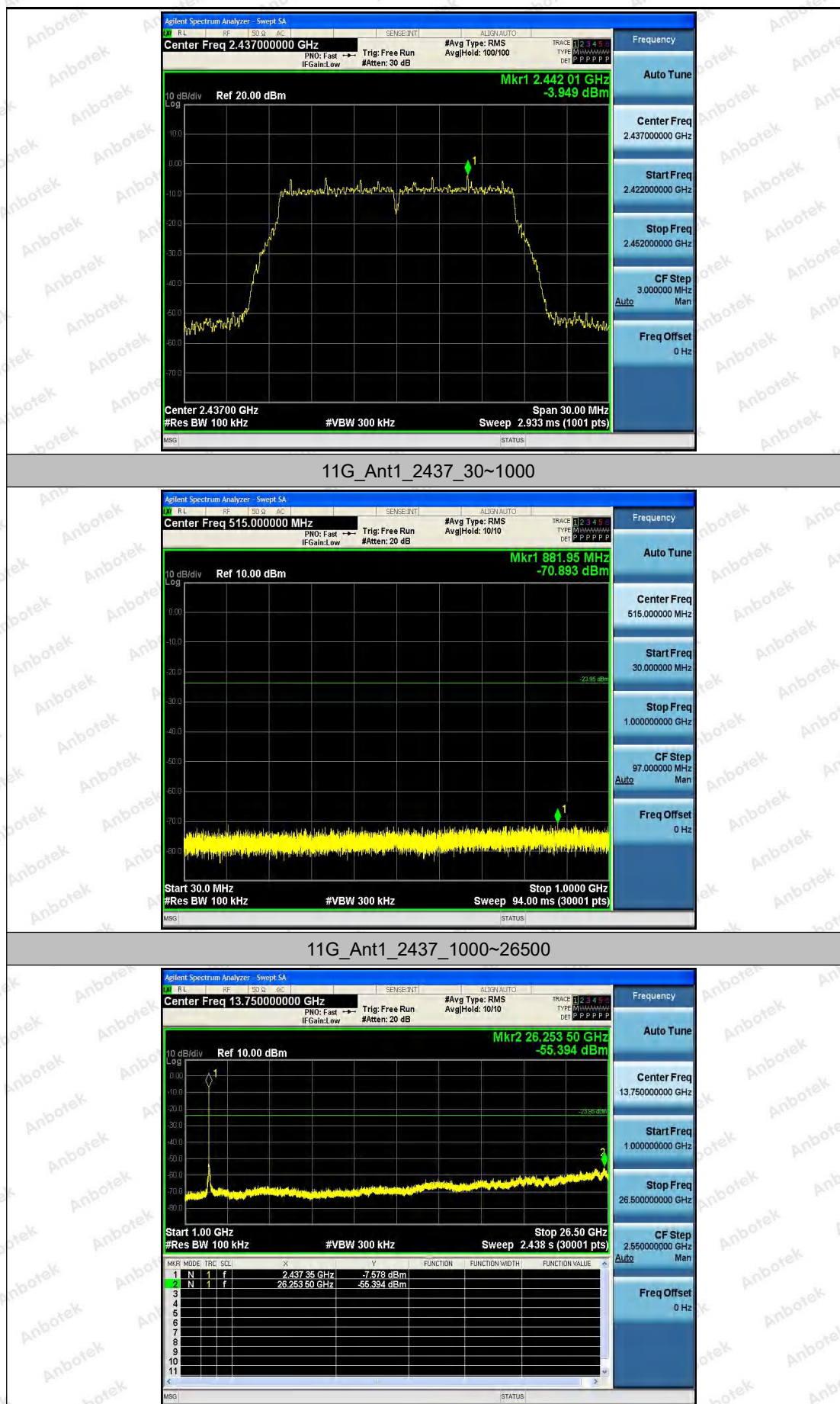


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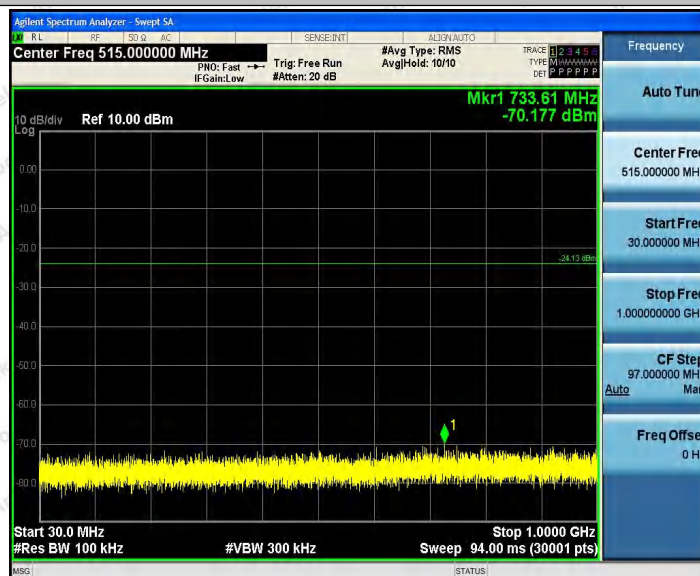
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



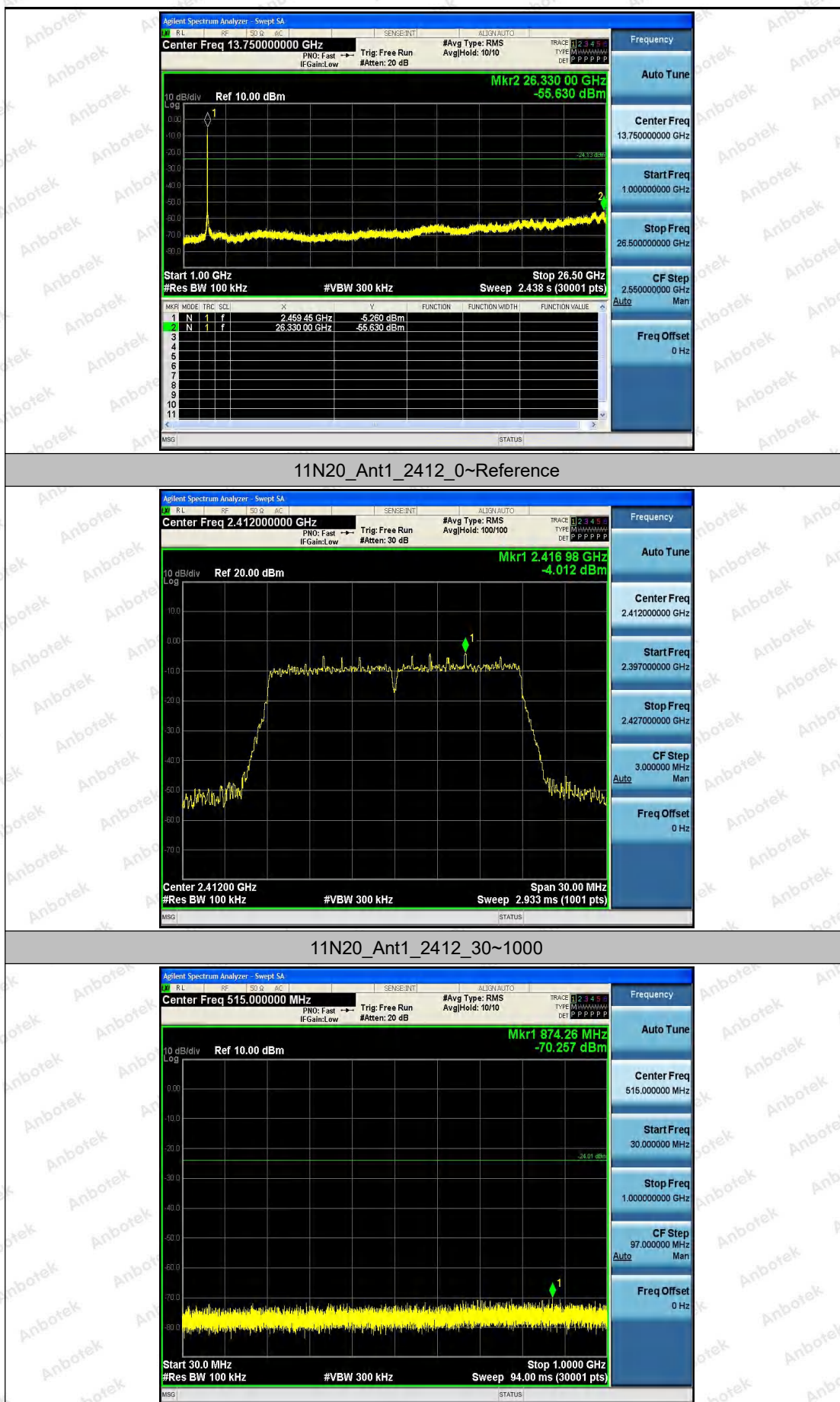
11G_Ant1_2462_1000~26500

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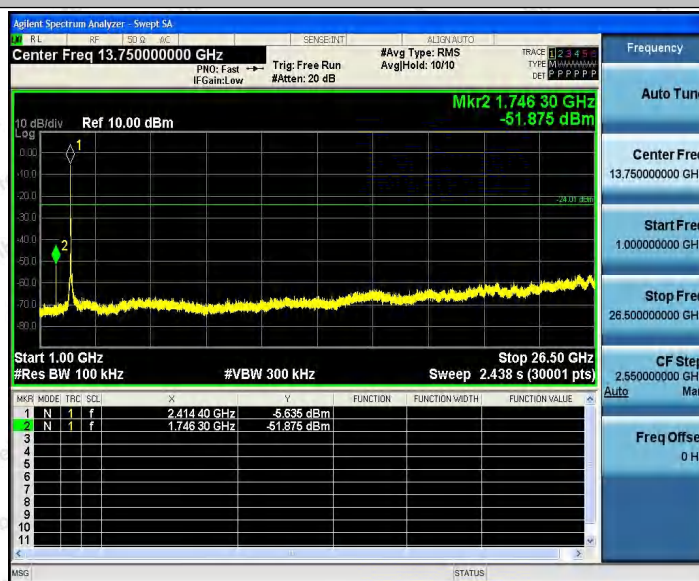
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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



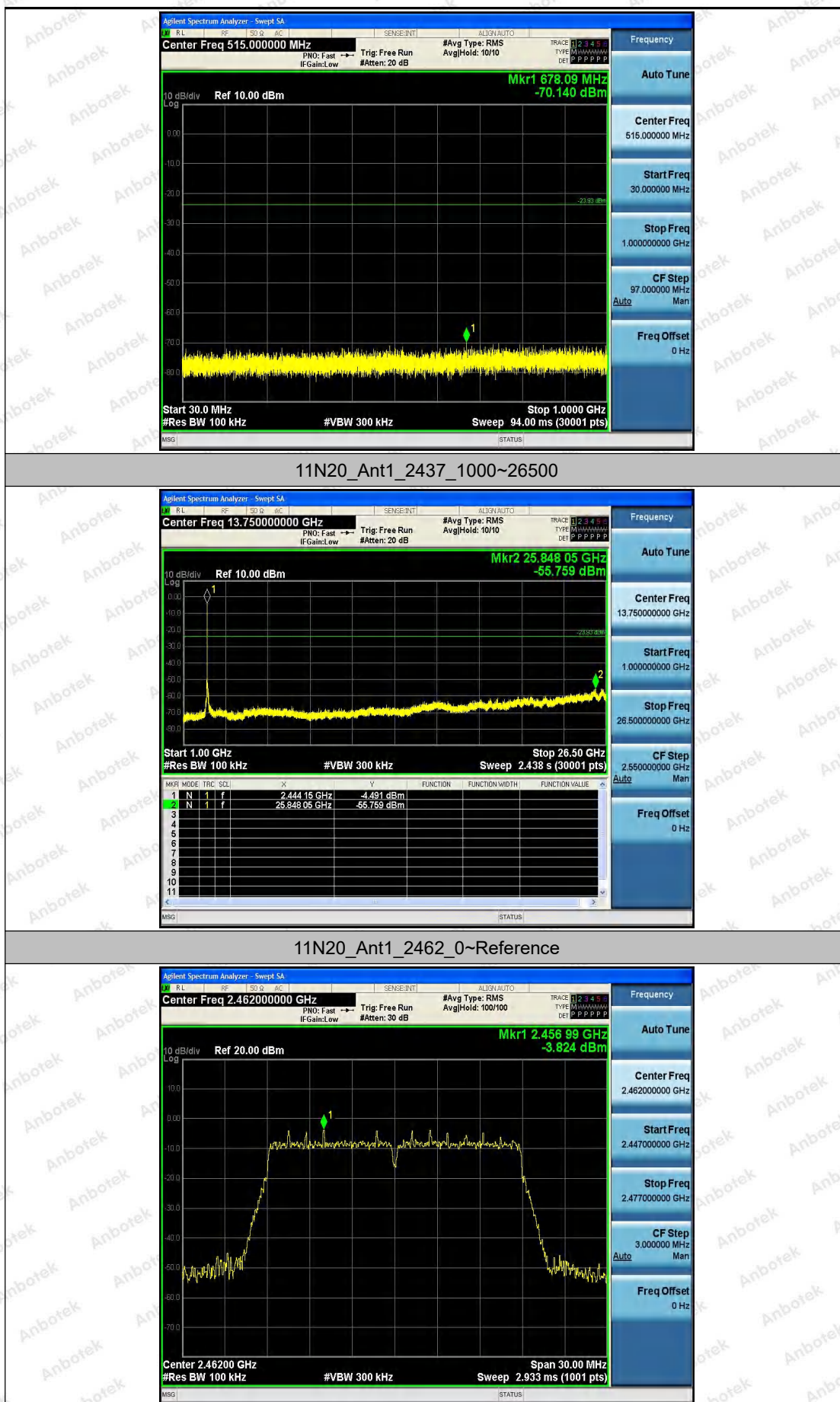
11N20_Ant1_2437_30~1000

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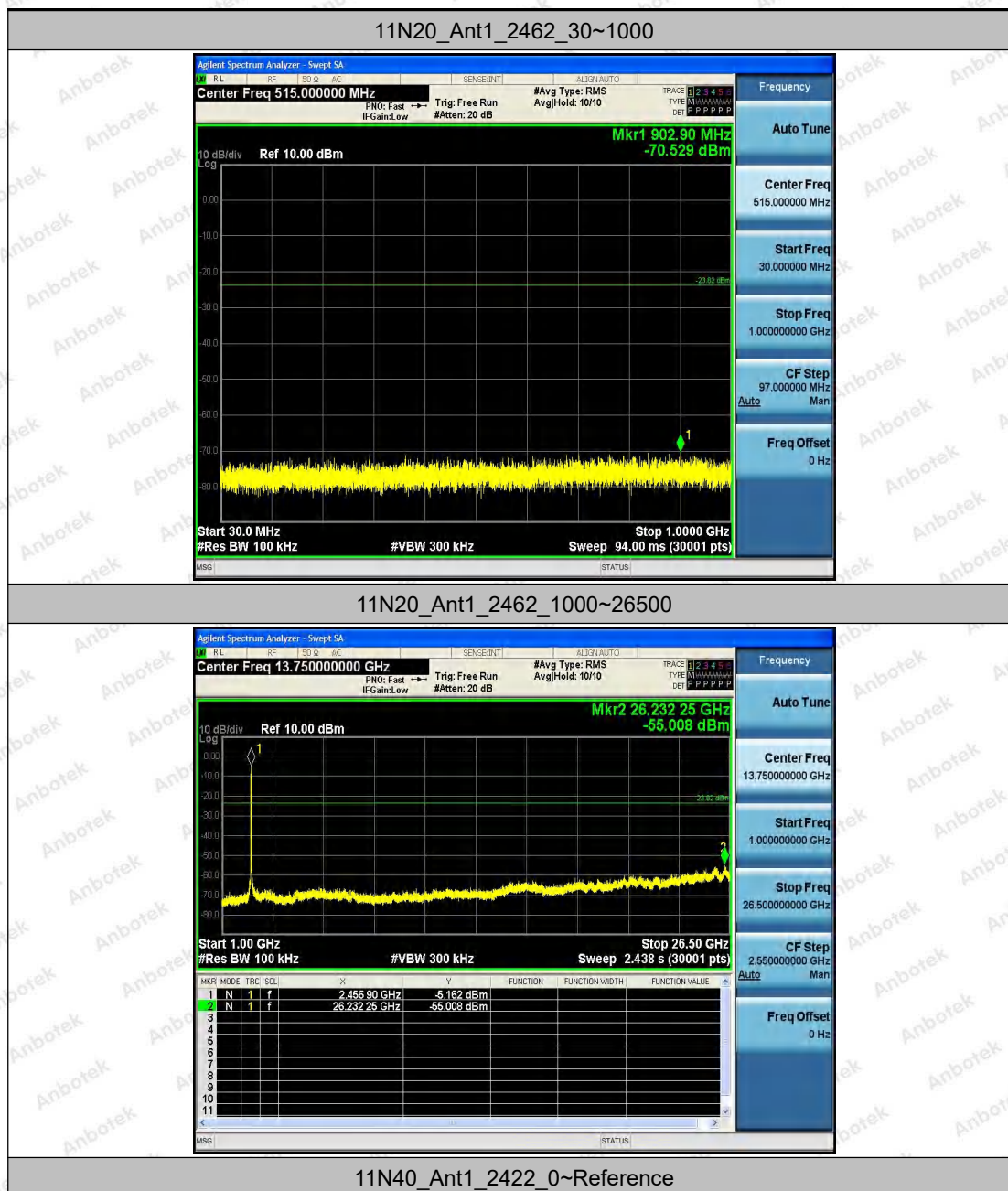


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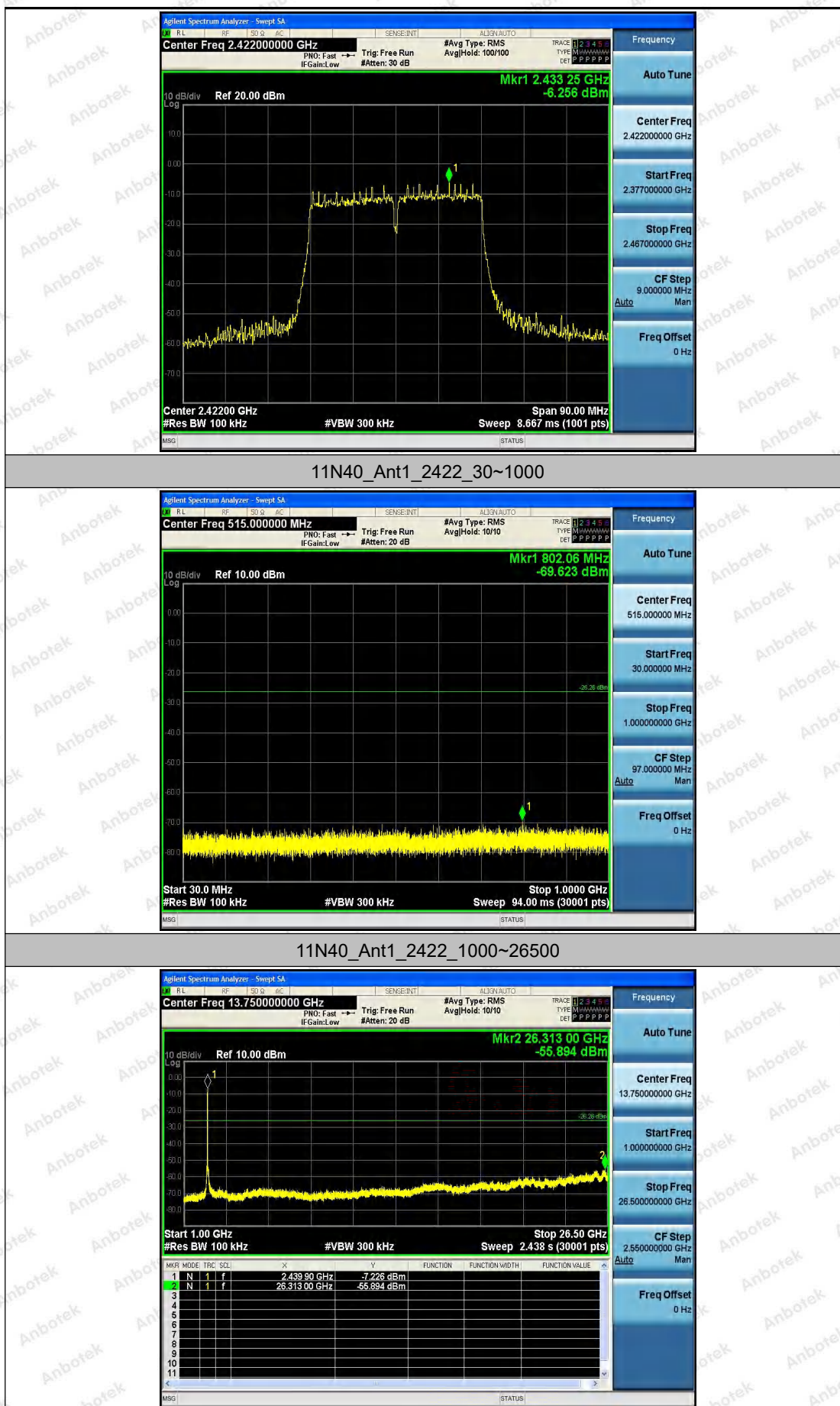


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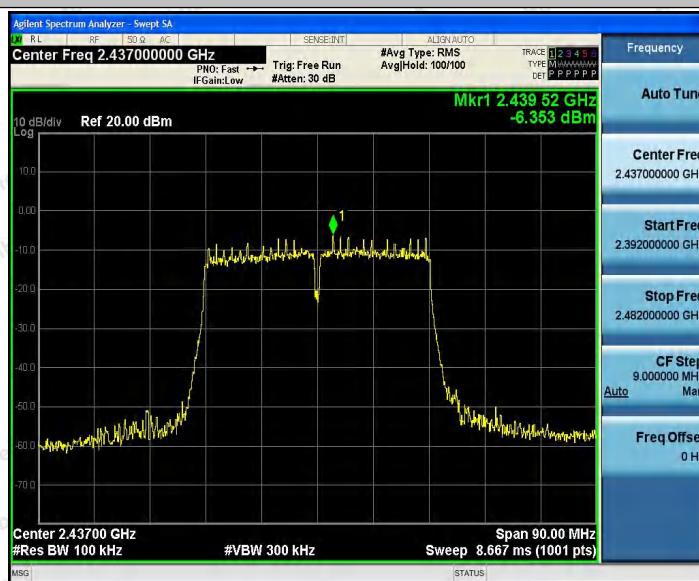
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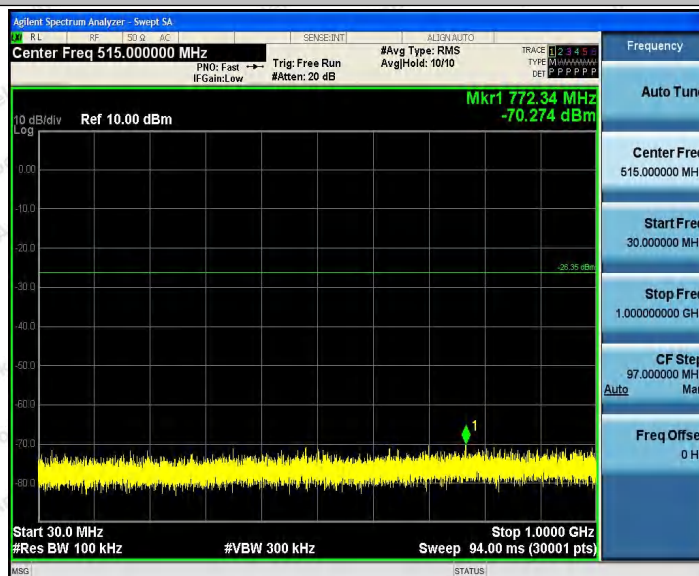
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11N40_Ant1_2437_0~Reference



11N40_Ant1_2437_30~1000



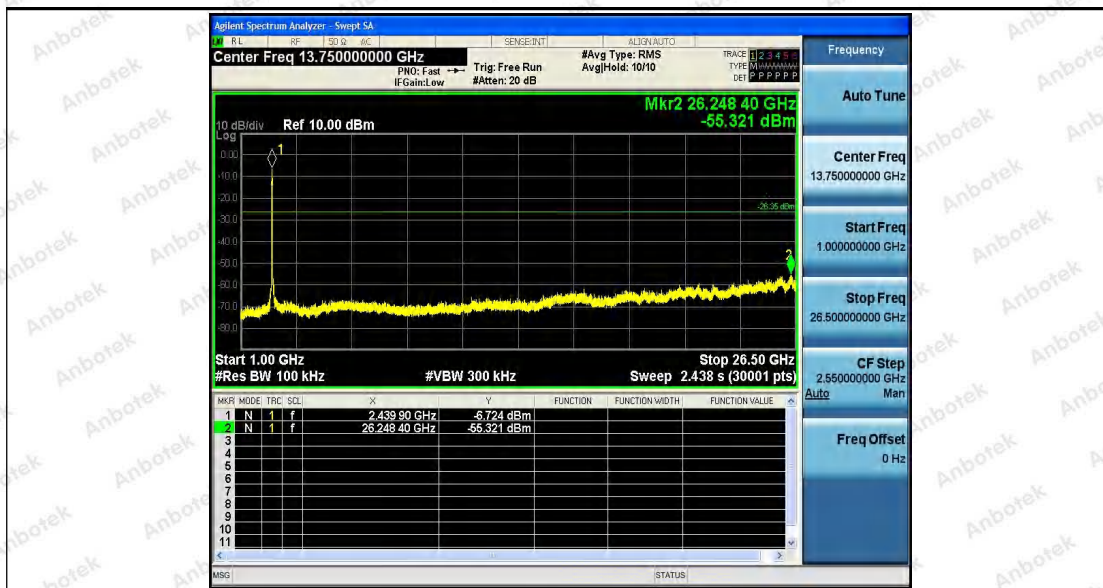
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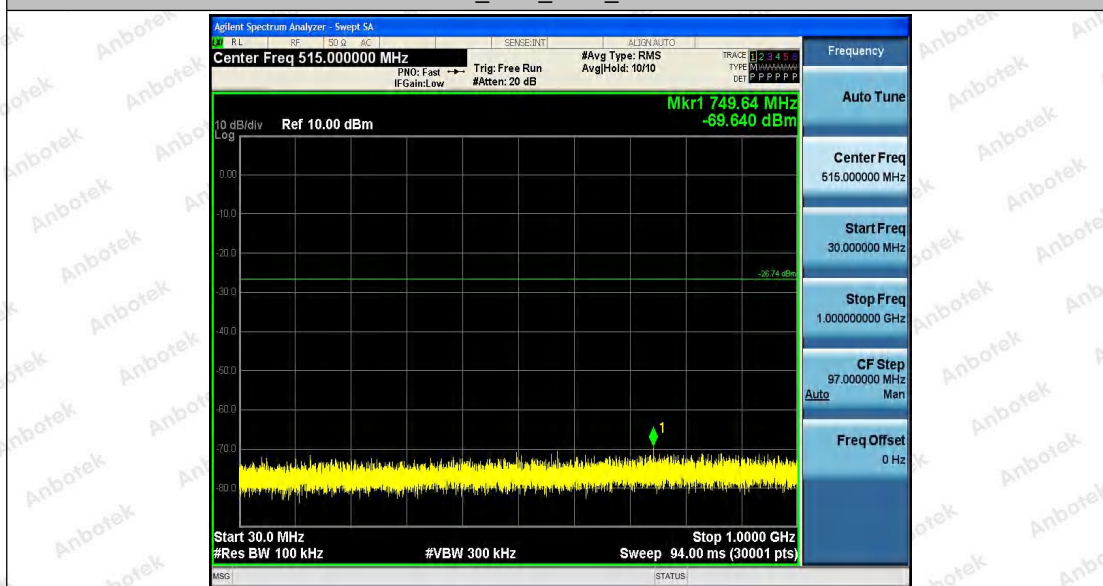
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11N40_Ant1_2452_30~1000

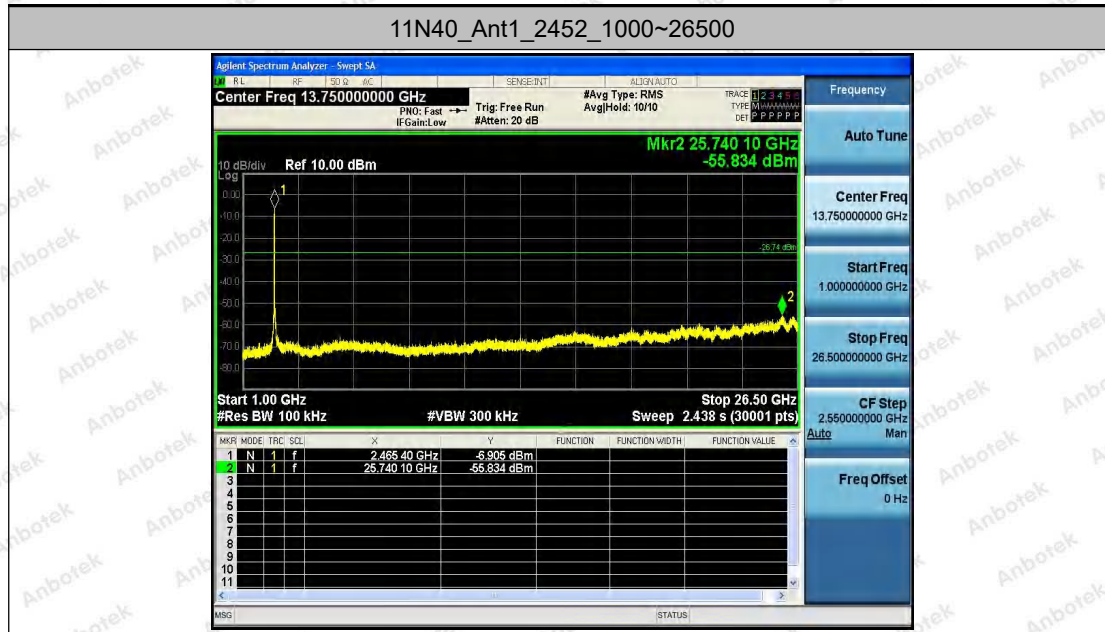


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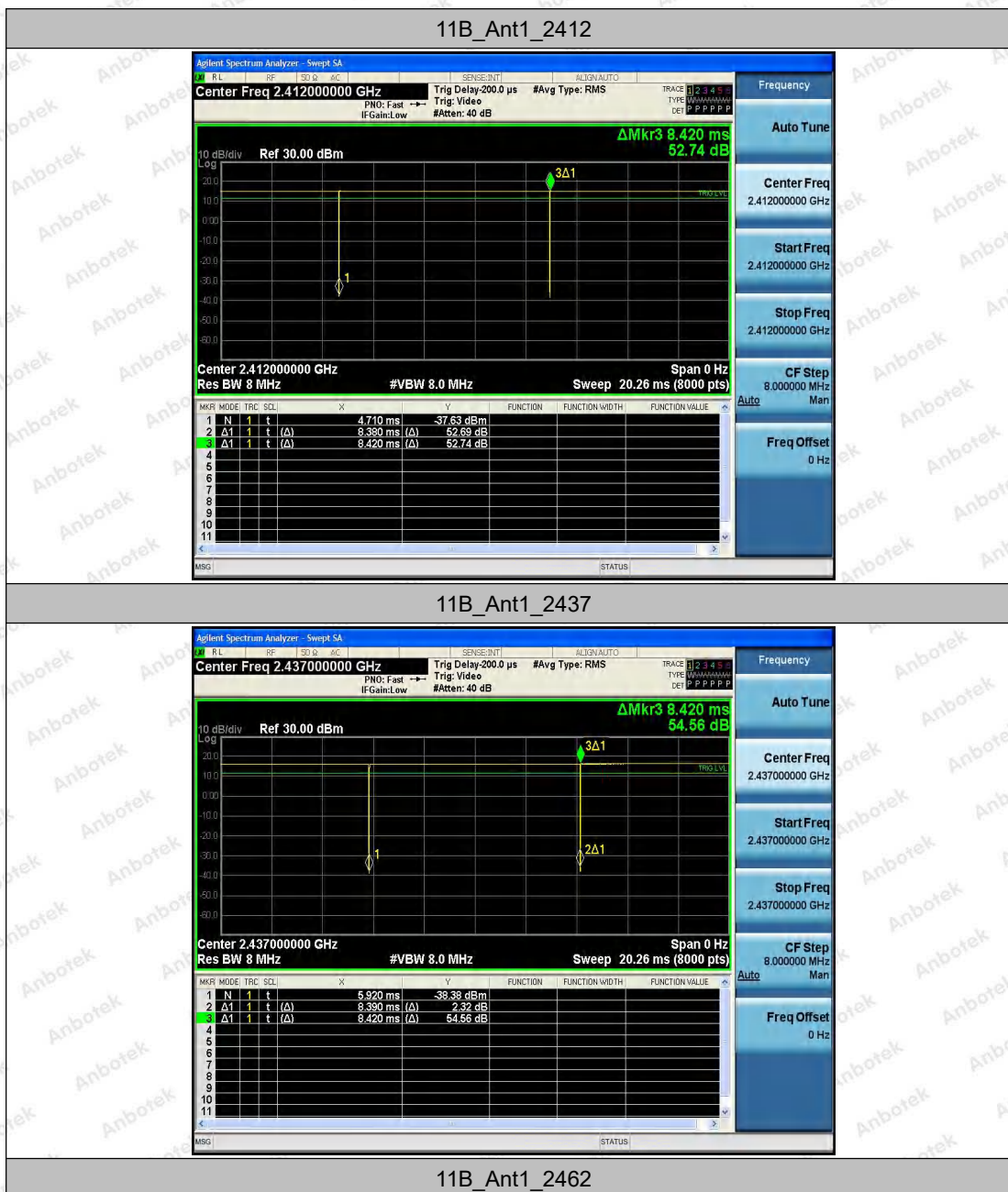
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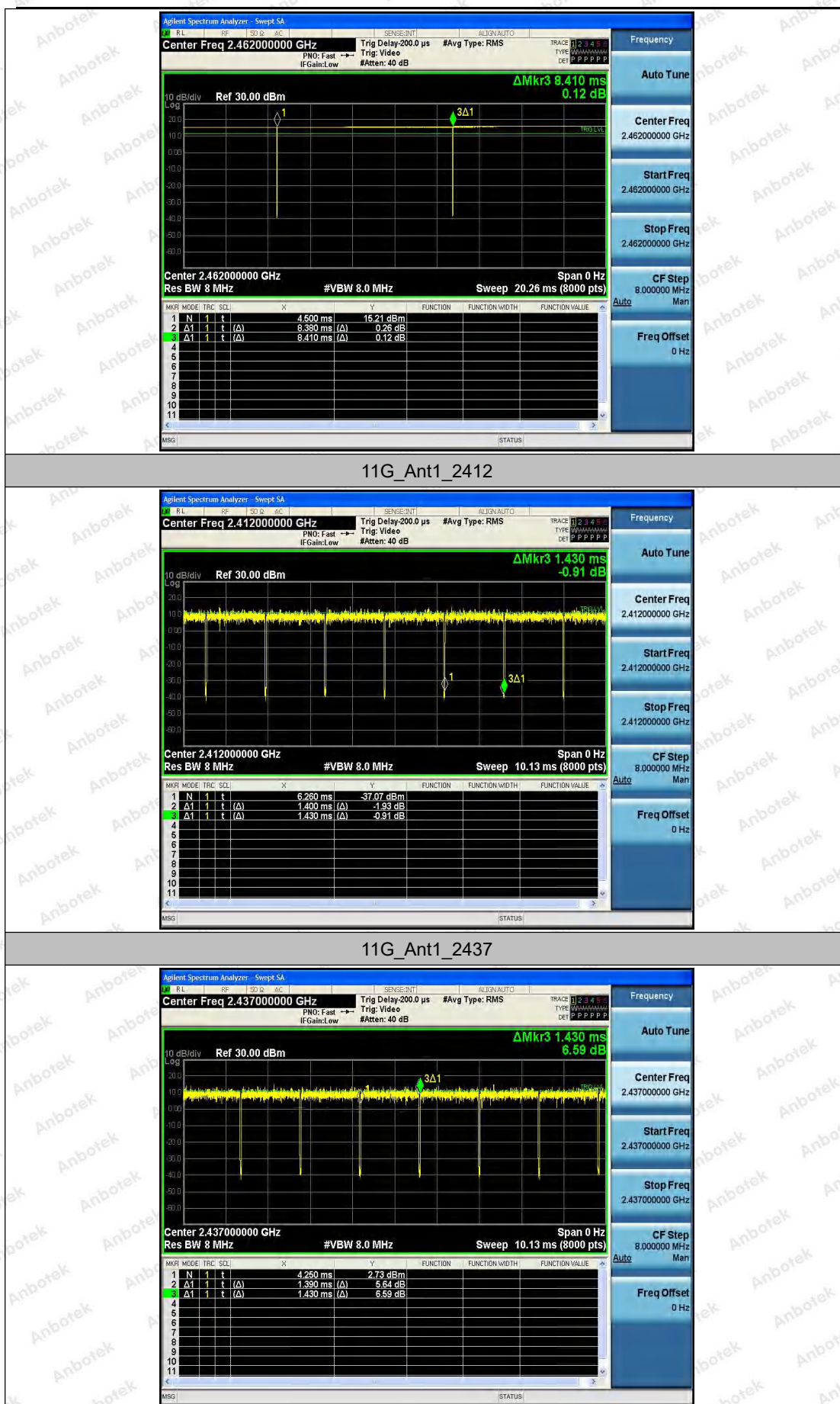
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.42	99.52	---	PASS
		2437	8.39	8.42	99.64	---	PASS
		2462	8.38	8.41	99.64	---	PASS
11G	Ant1	2412	1.40	1.43	97.90	---	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	1.34	97.01	---	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	0.68	95.59	---	PASS

Test Graphs





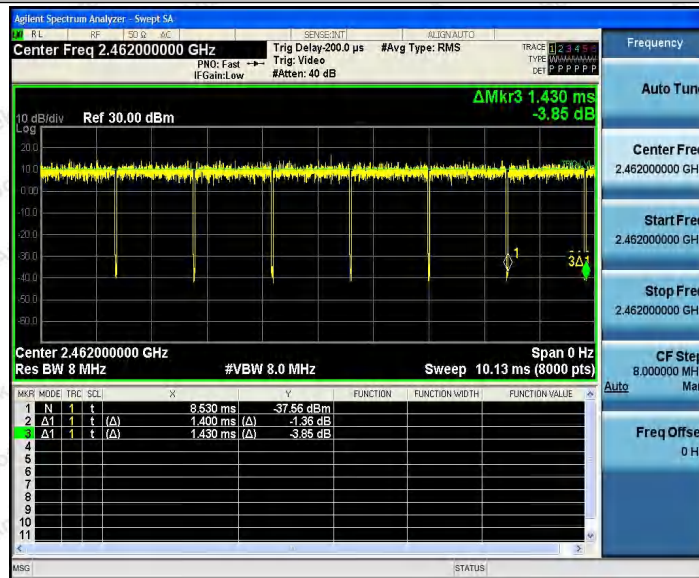
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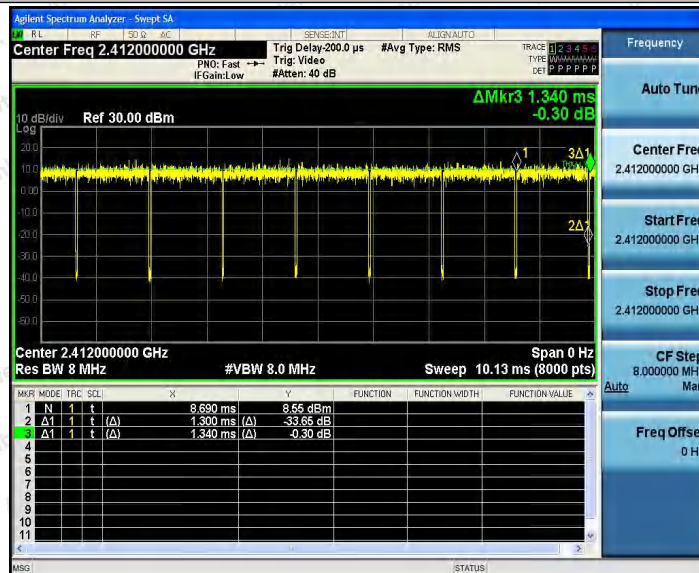
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11G_Ant1_2462



11N20_Ant1_2412



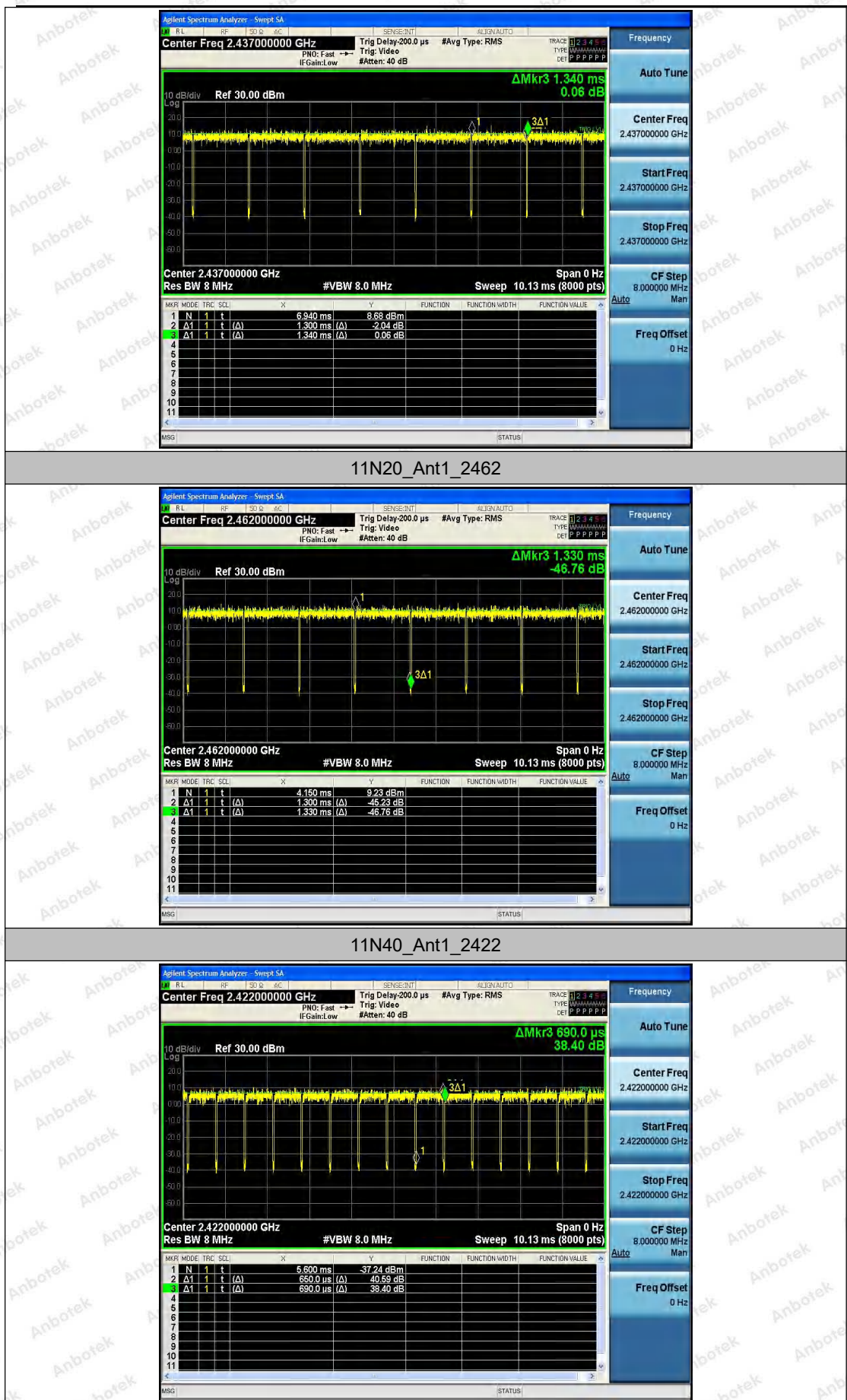
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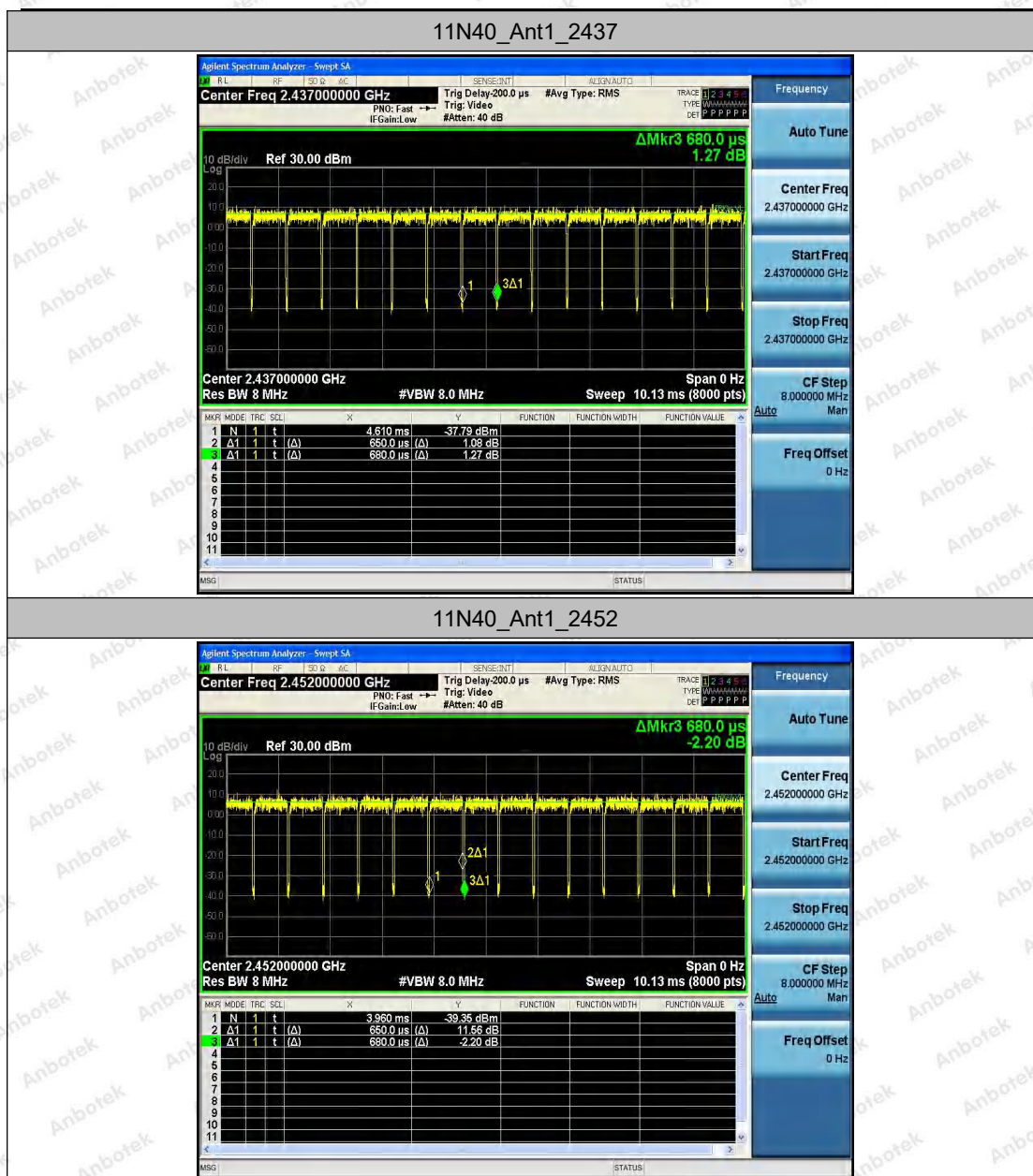


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