

Appendix Test Data

Report No.:	18220WC20093502	Test Sample No.:	1-2-2
Start Test Date:	2022.4.28	Finish Test Date:	2022.5.7
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
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	9.120	2407.920	2417.040	≥0.5	PASS
		2437	9.160	2432.440	2441.600	≥0.5	PASS
		2462	9.200	2457.400	2466.600	≥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	16.400	2453.800	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.640	2403.200	2420.840	≥0.5	PASS
		2437	17.680	2428.160	2445.840	≥0.5	PASS
		2462	17.680	2453.160	2470.840	≥0.5	PASS
11N40	Ant1	2422	35.760	2404.420	2440.180	≥0.5	PASS
		2437	35.520	2419.420	2454.940	≥0.5	PASS
		2452	35.940	2434.060	2470.000	≥0.5	PASS

Test Graphs

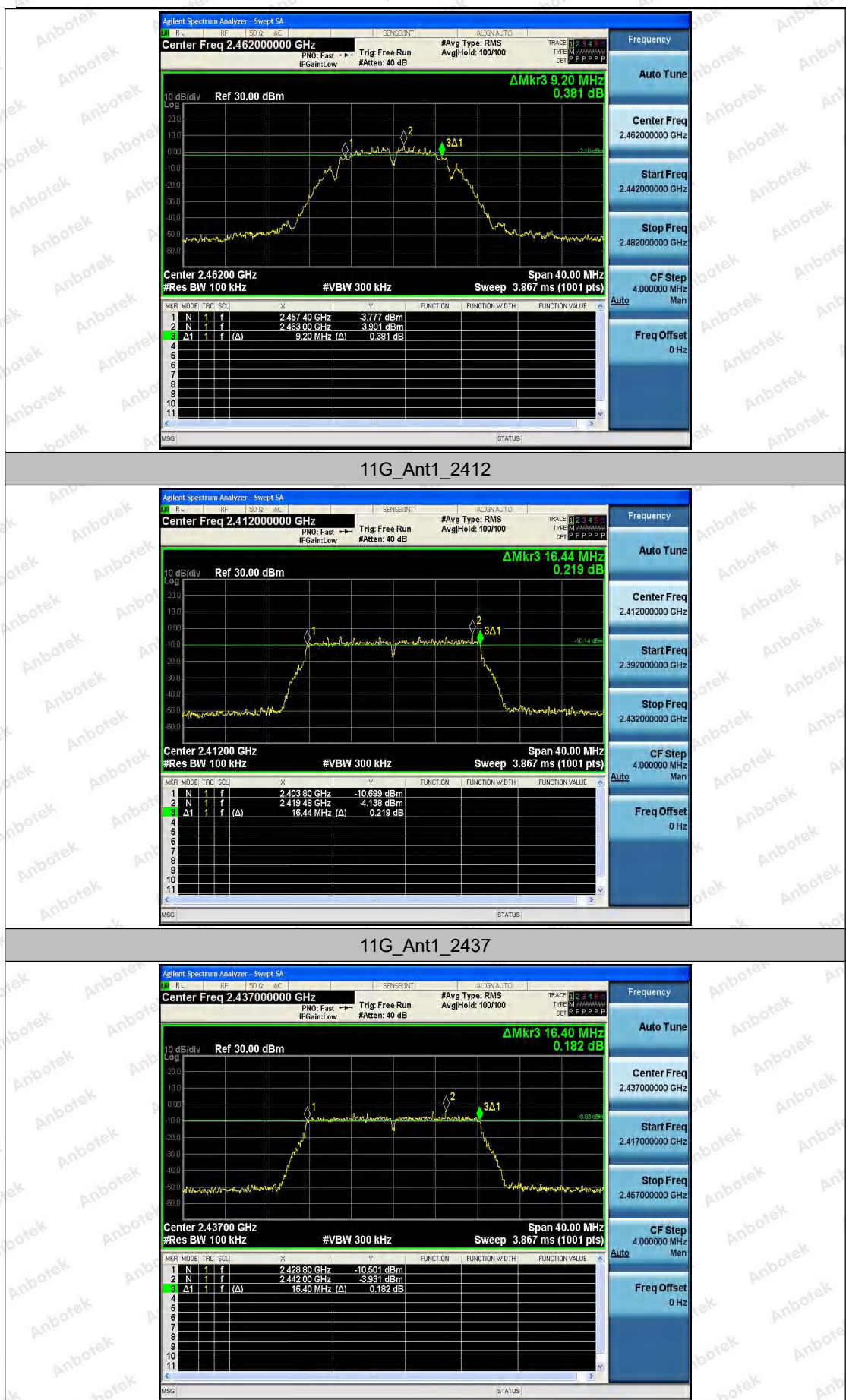
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



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11G_Ant1_2462



11N20_Ant1_2412



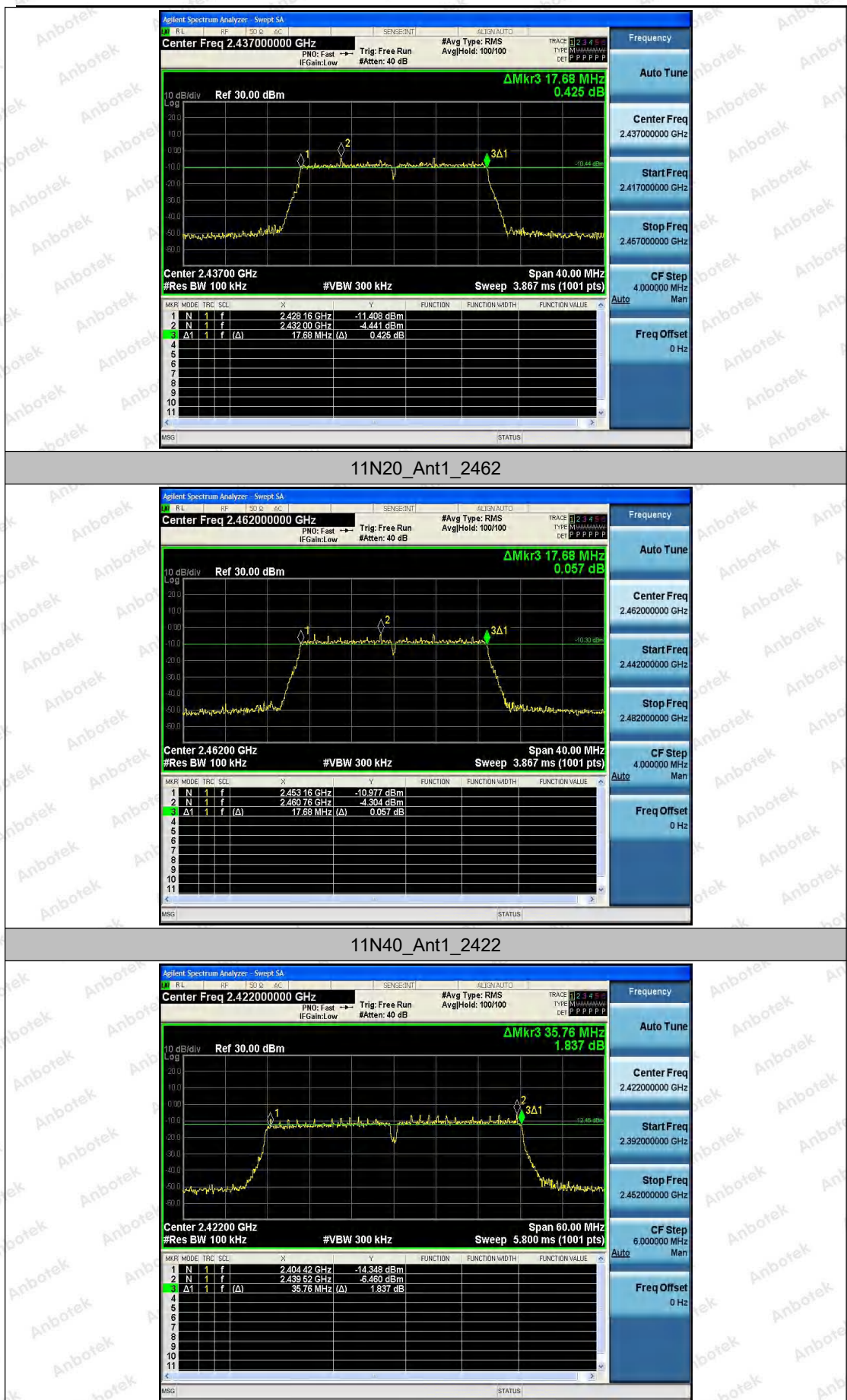
11N20_Ant1_2437

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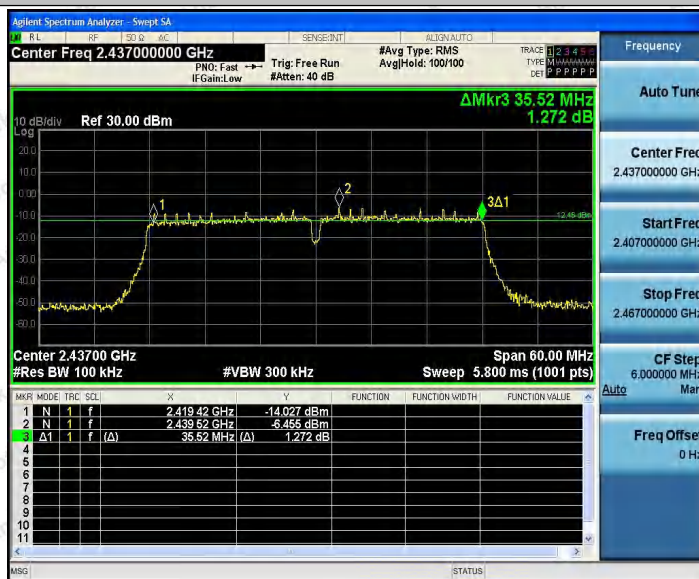


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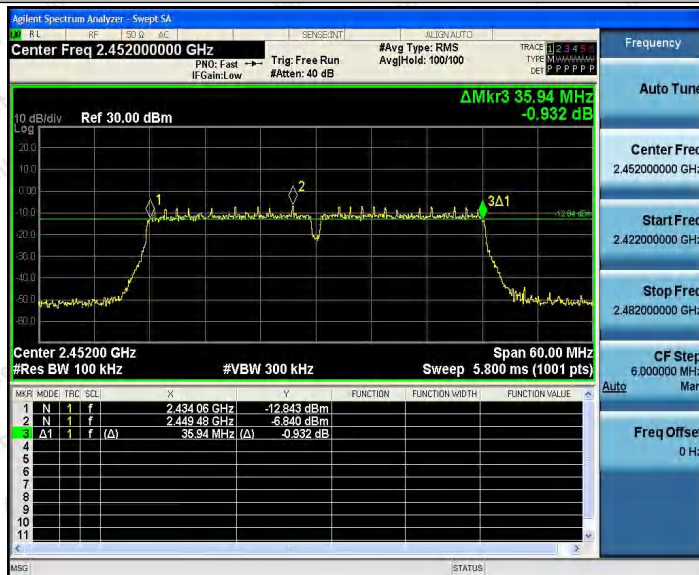
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11N40_Ant1_2437



11N40_Ant1_2452



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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	12.341	2405.919	2418.260	---	PASS
		2437	12.270	2430.919	2443.189	---	PASS
		2462	12.308	2455.875	2468.183	---	PASS
11G	Ant1	2412	17.125	2403.509	2420.634	---	PASS
		2437	17.050	2428.508	2445.558	---	PASS
		2462	17.069	2453.474	2470.543	---	PASS
11N20	Ant1	2412	17.976	2403.038	2421.014	---	PASS
		2437	17.980	2428.054	2446.034	---	PASS
		2462	17.919	2453.060	2470.979	---	PASS
11N40	Ant1	2422	36.115	2404.075	2440.190	---	PASS
		2437	36.184	2418.986	2455.170	---	PASS
		2452	36.228	2433.940	2470.168	---	PASS

Test Graphs

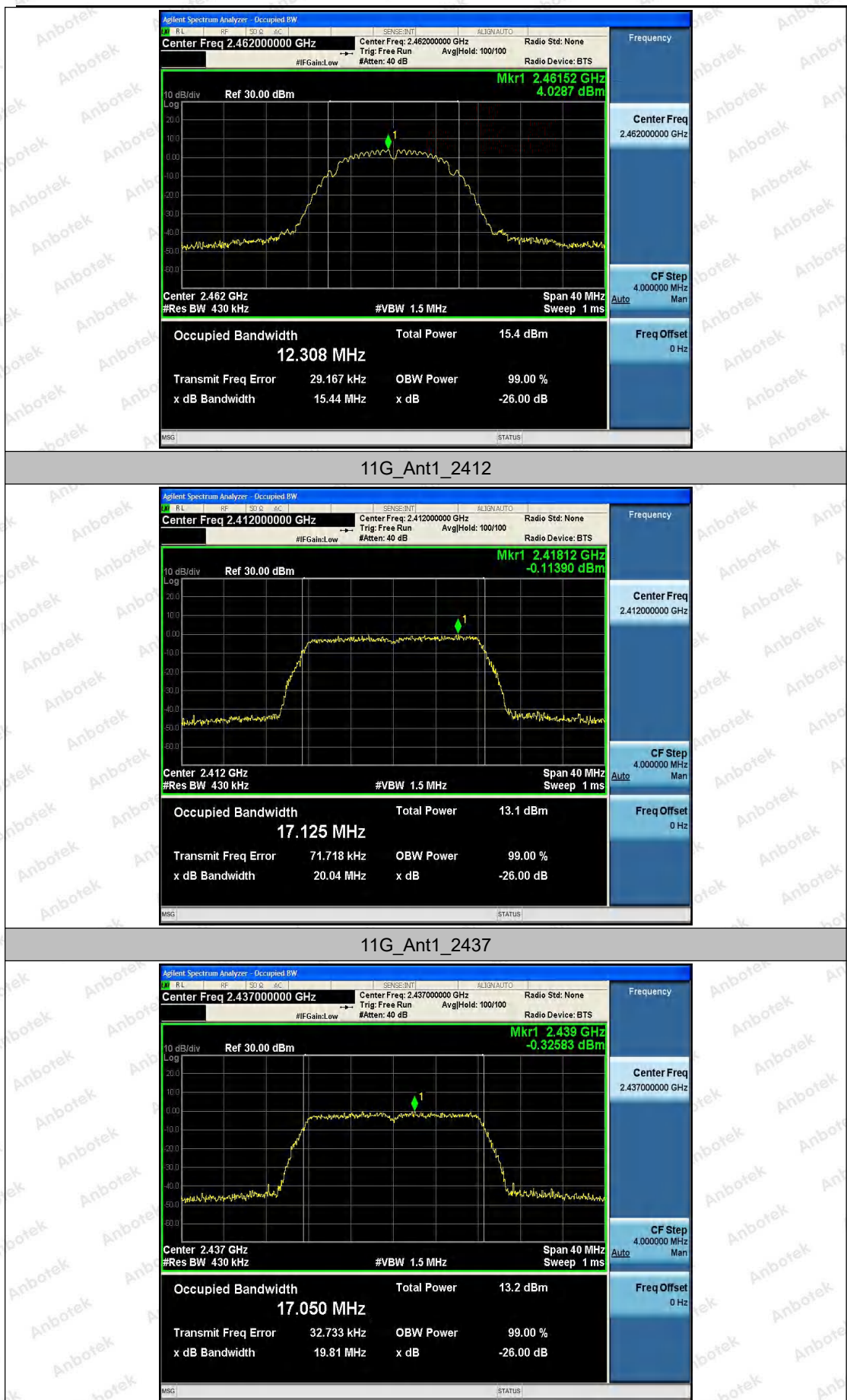


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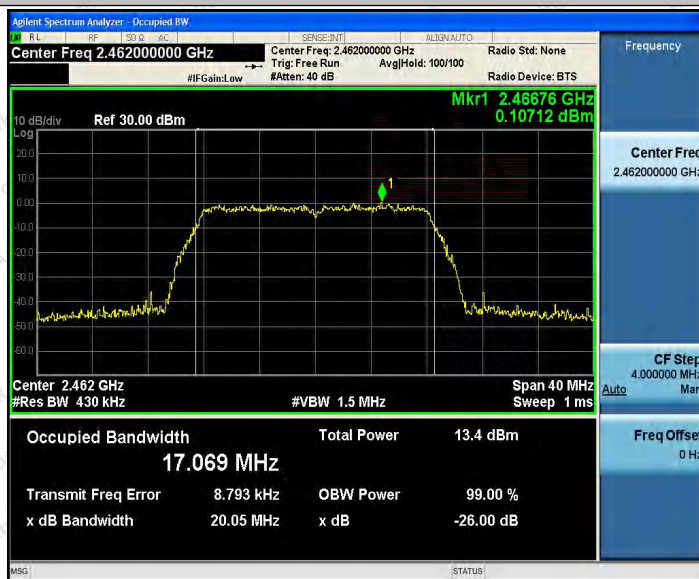


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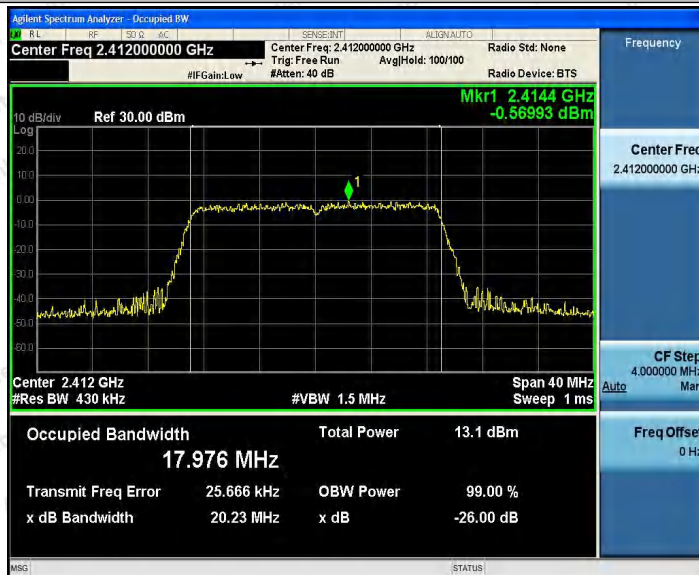
400-003-0500

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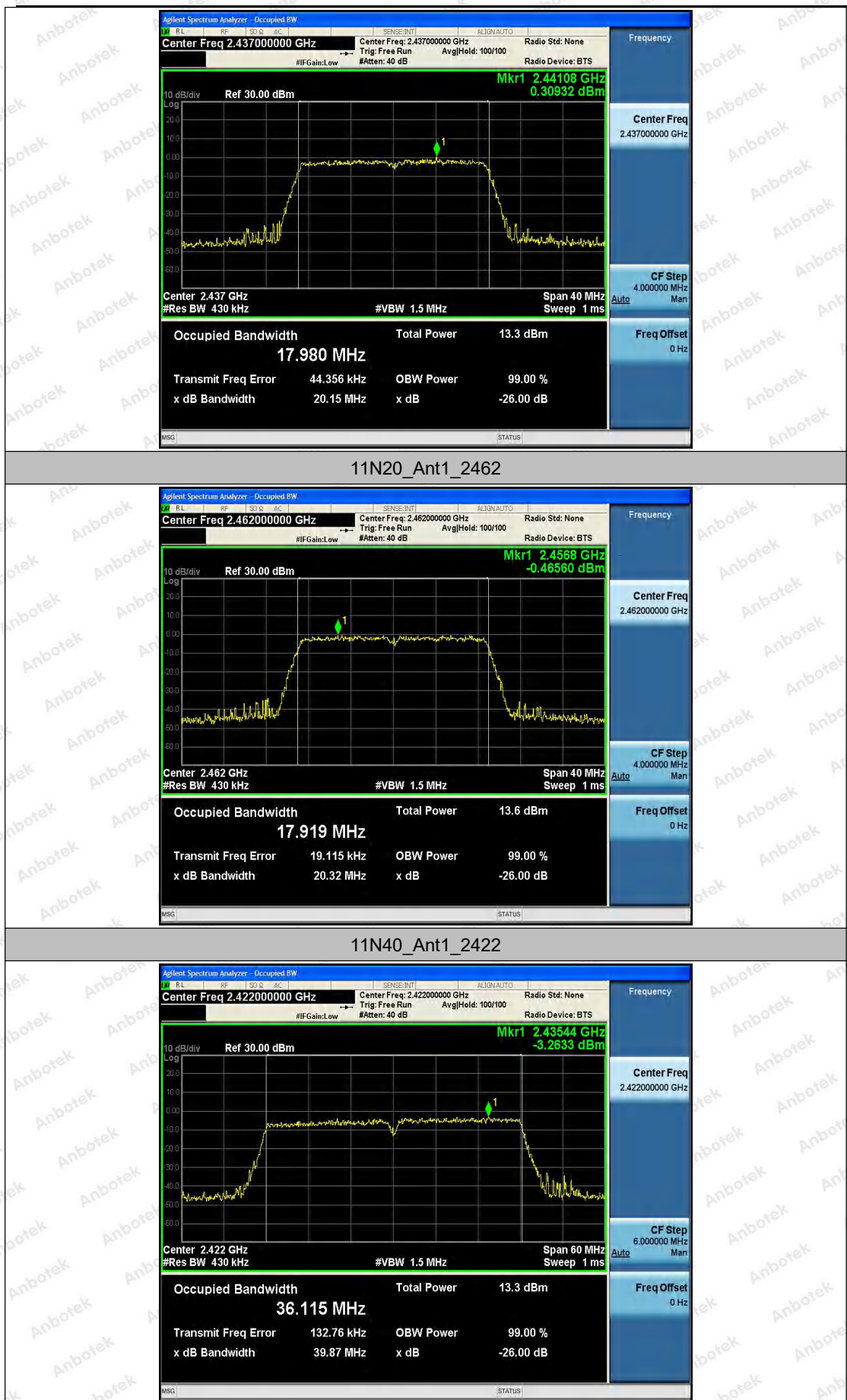
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437



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Appendix C: Maximum conducted output power

Test Result

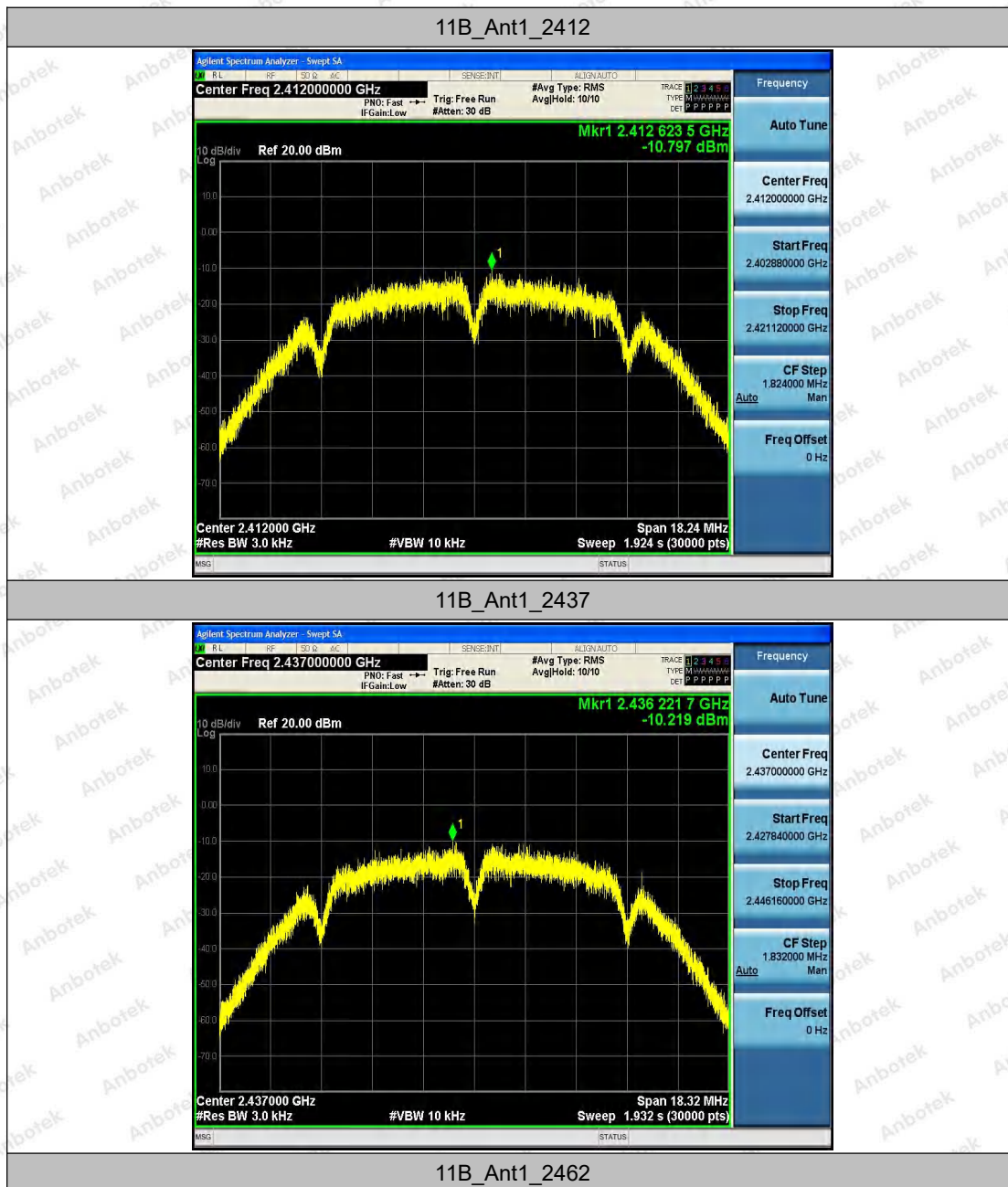
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.01	≤30	PASS
		2437	15.19	≤30	PASS
		2462	15.44	≤30	PASS
11G	Ant1	2412	14.39	≤30	PASS
		2437	14.40	≤30	PASS
		2462	14.52	≤30	PASS
11N20	Ant1	2412	14.20	≤30	PASS
		2437	14.33	≤30	PASS
		2462	14.63	≤30	PASS
11N40	Ant1	2422	11.80	≤30	PASS
		2437	12.12	≤30	PASS
		2452	12.00	≤30	PASS

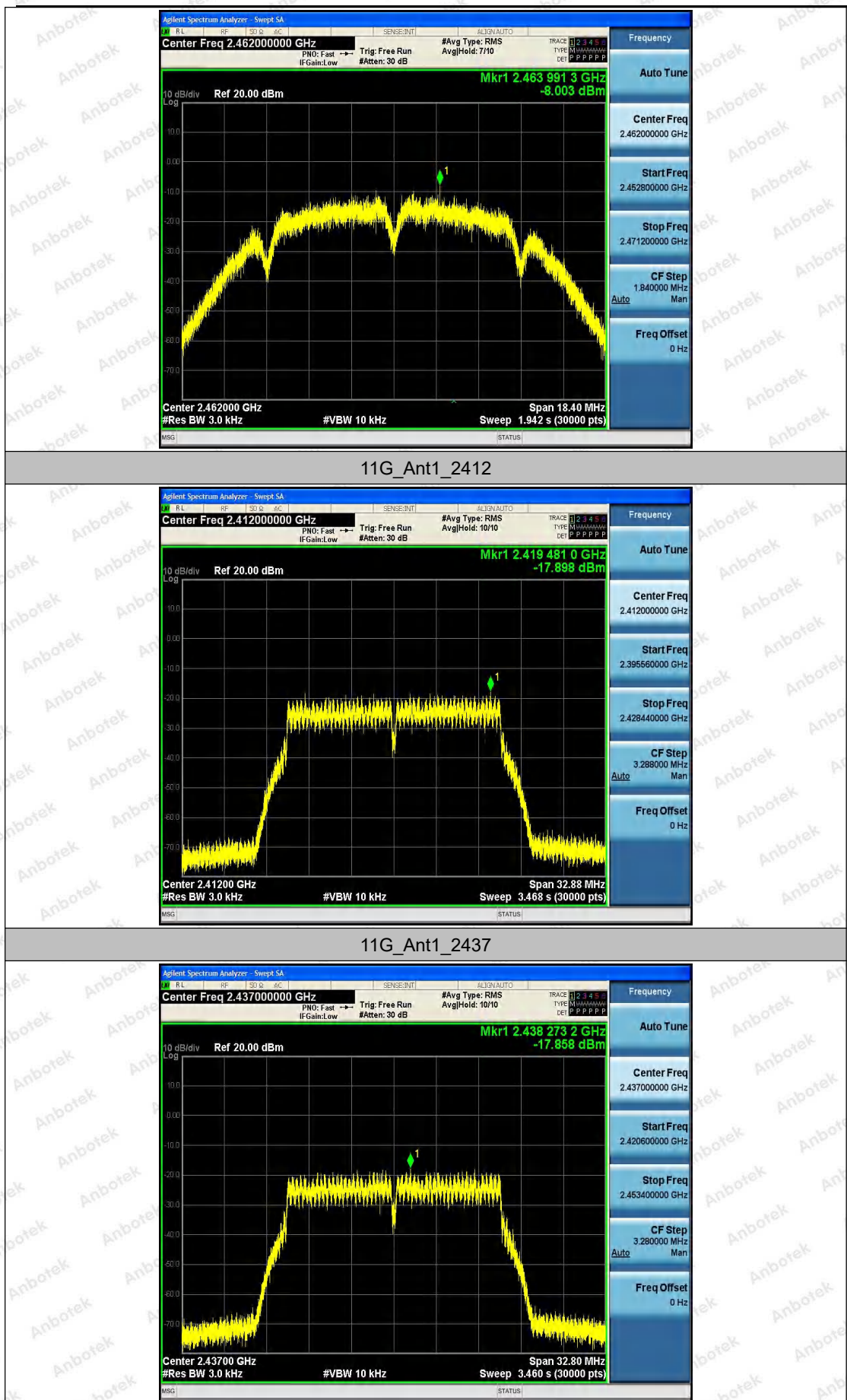
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.8	≤8	PASS
		2437	-10.22	≤8	PASS
		2462	-8	≤8	PASS
11G	Ant1	2412	-17.9	≤8	PASS
		2437	-17.86	≤8	PASS
		2462	-16.24	≤8	PASS
11N20	Ant1	2412	-18.01	≤8	PASS
		2437	-17.54	≤8	PASS
		2462	-17.59	≤8	PASS
11N40	Ant1	2422	-20	≤8	PASS
		2437	-18.5	≤8	PASS
		2452	-20.98	≤8	PASS

Test Graphs



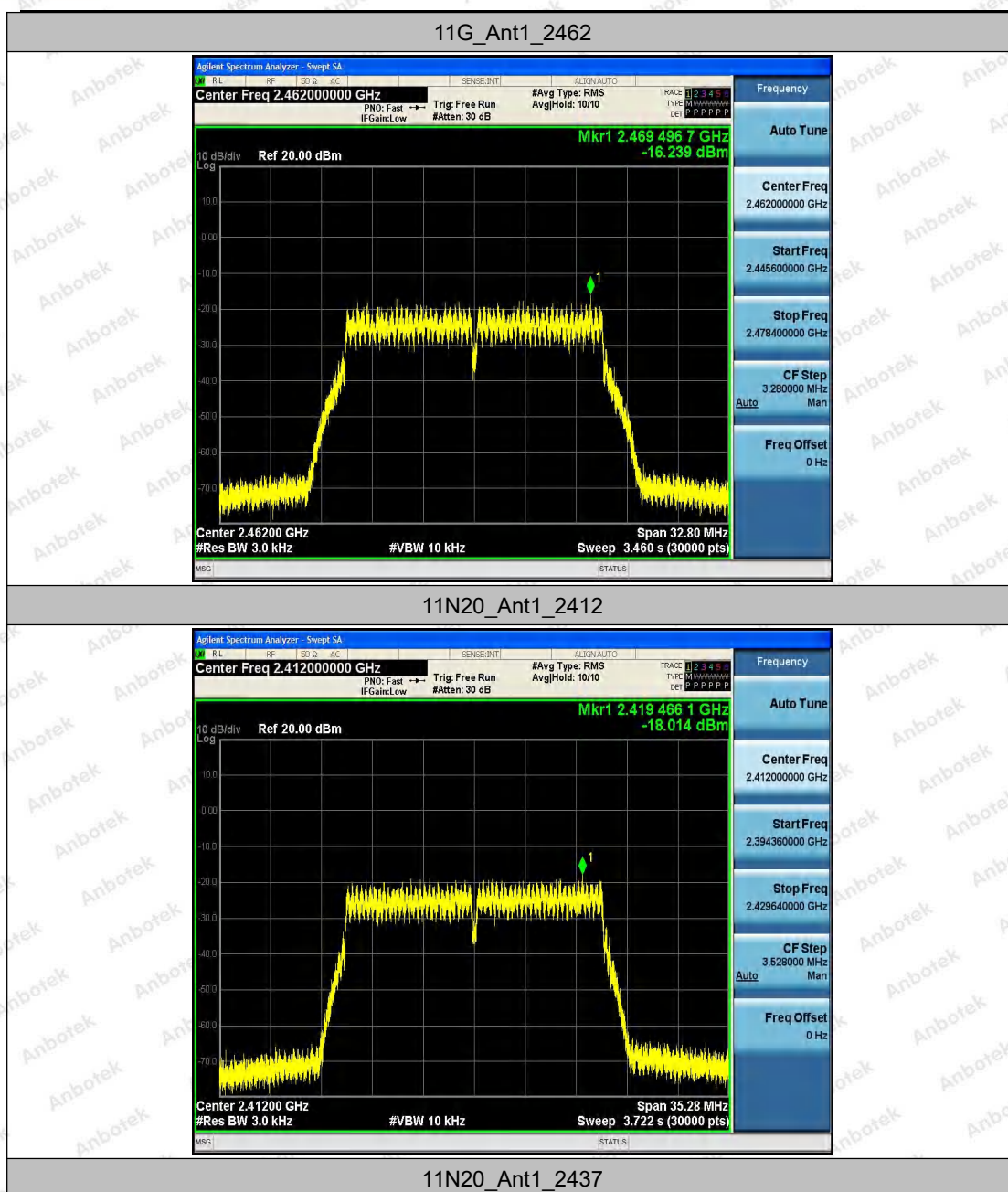


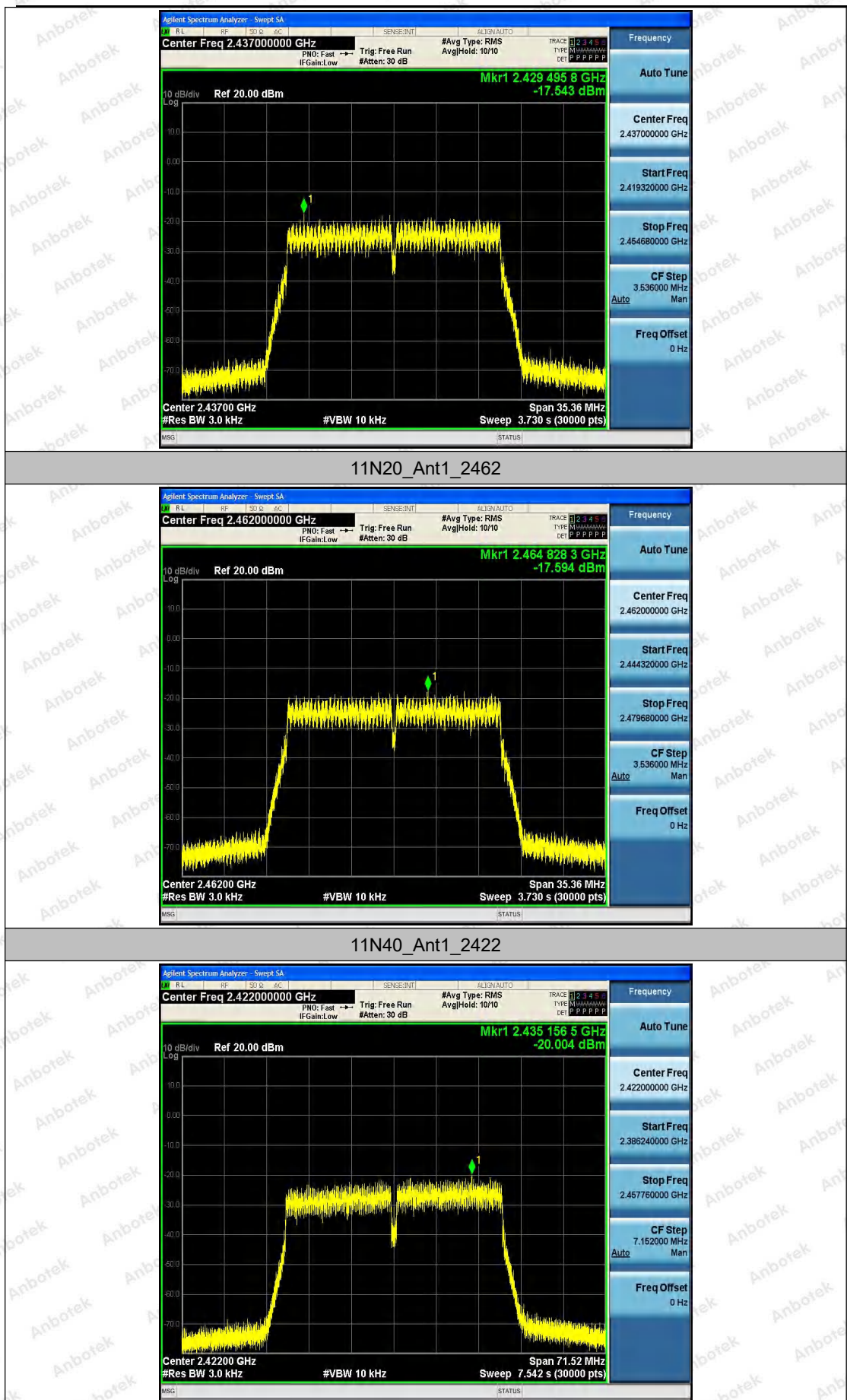
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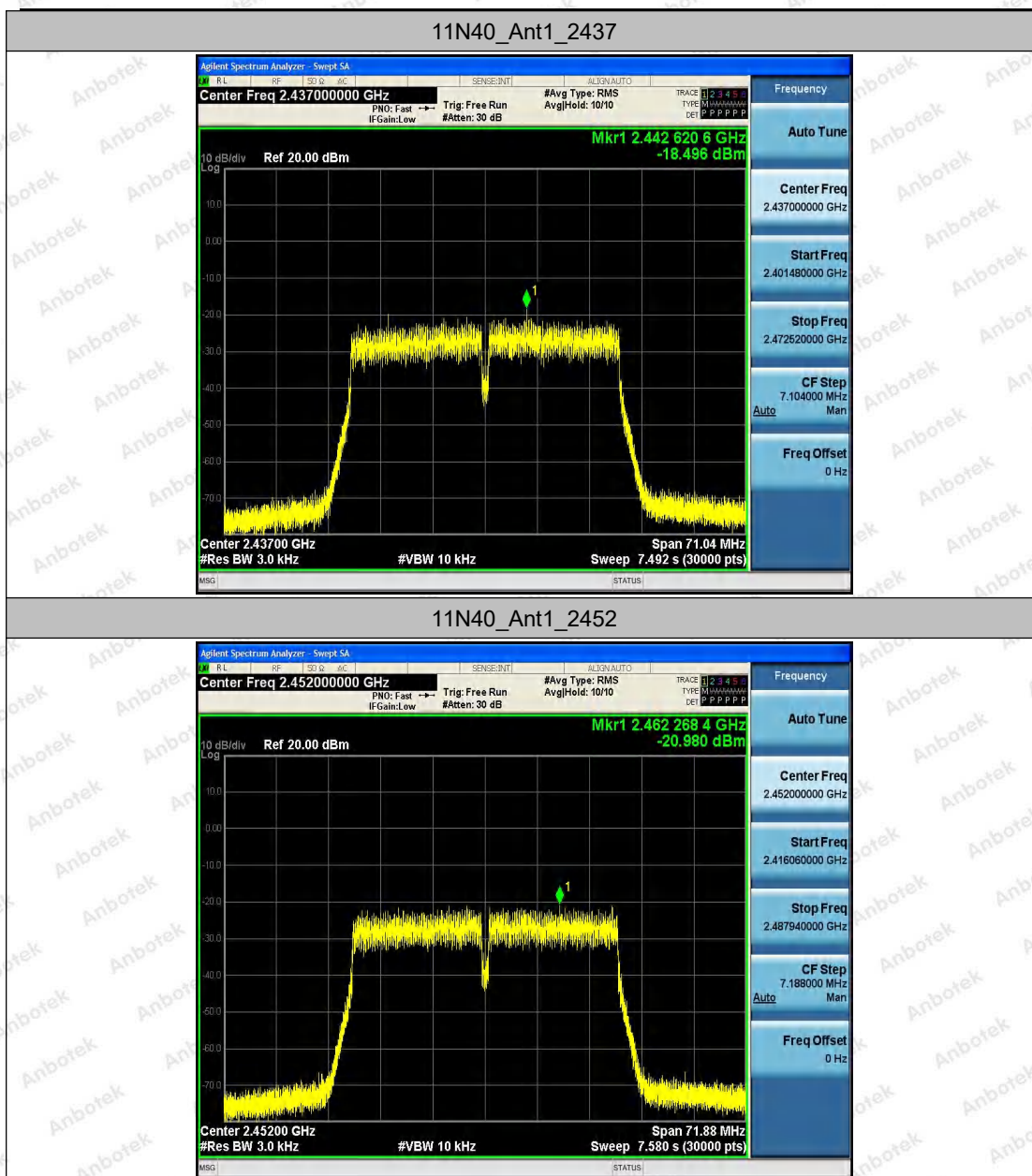


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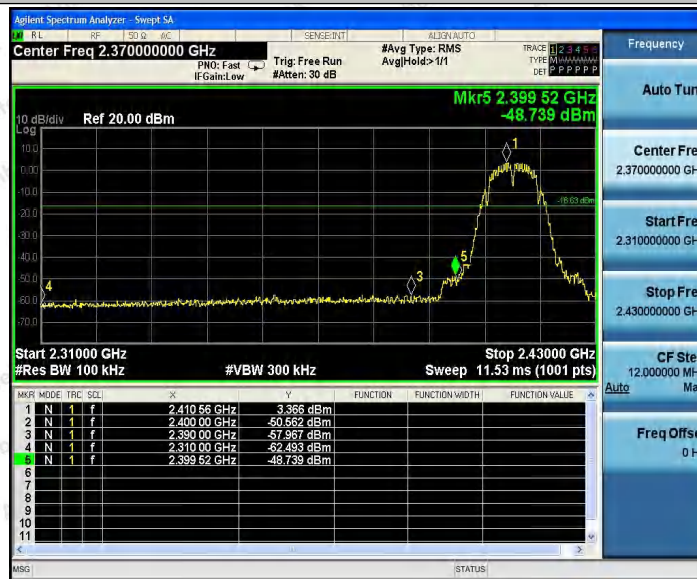
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.37	-48.74	≤-16.63	PASS
		High	2462	3.61	-55.12	≤-16.39	PASS
11G	Ant1	Low	2412	-4.02	-51.21	≤-24.02	PASS
		High	2462	-3.84	-53.48	≤-23.84	PASS
11N20	Ant1	Low	2412	-4.37	-48.85	≤-24.37	PASS
		High	2462	-4.04	-53.7	≤-24.04	PASS
11N40	Ant1	Low	2422	-6.64	-49.89	≤-26.64	PASS
		High	2452	-7.03	-51.84	≤-27.03	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



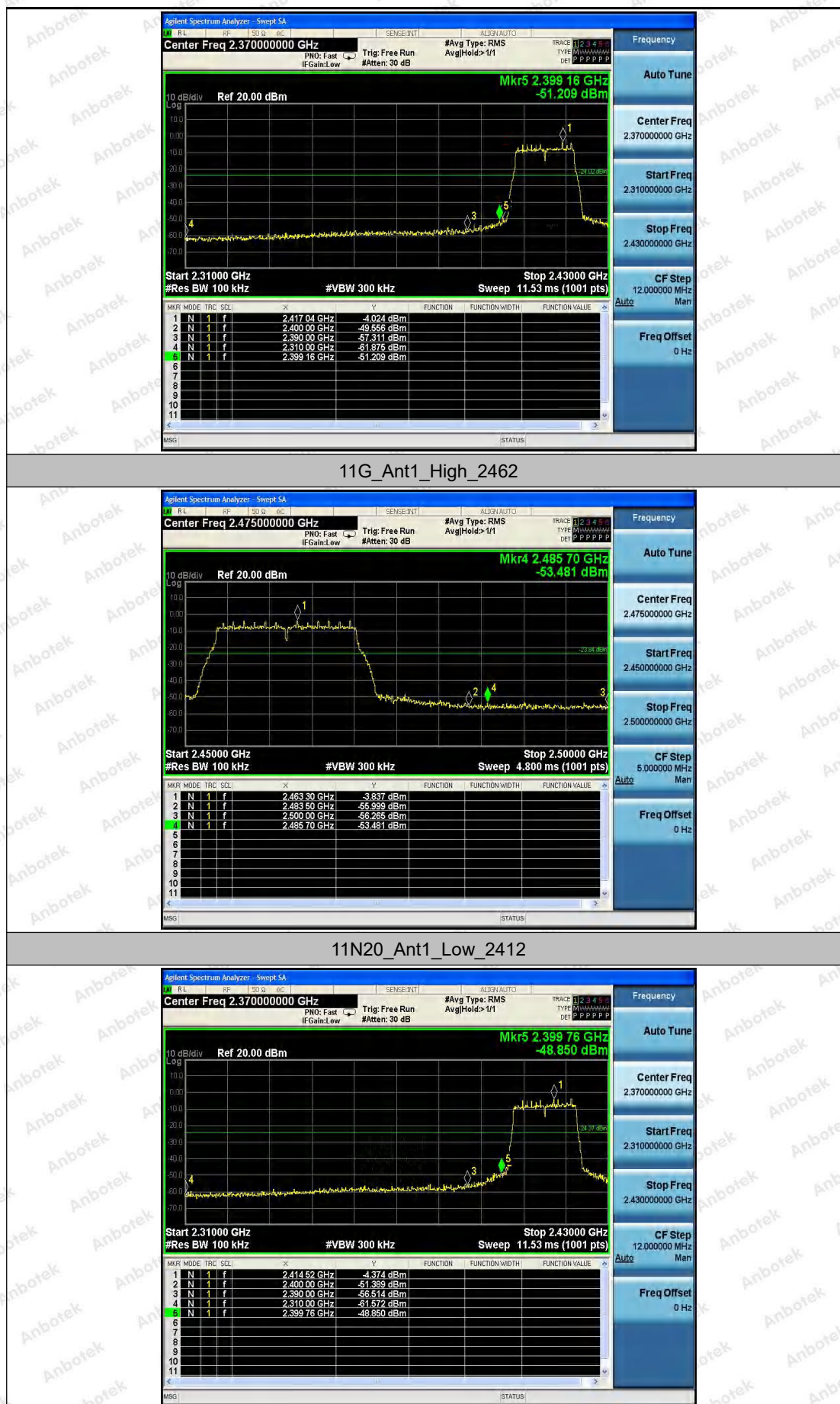
11G_Ant1_Low_2412

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11N20_Ant1_High_2462



11N40_Ant1_Low_2422



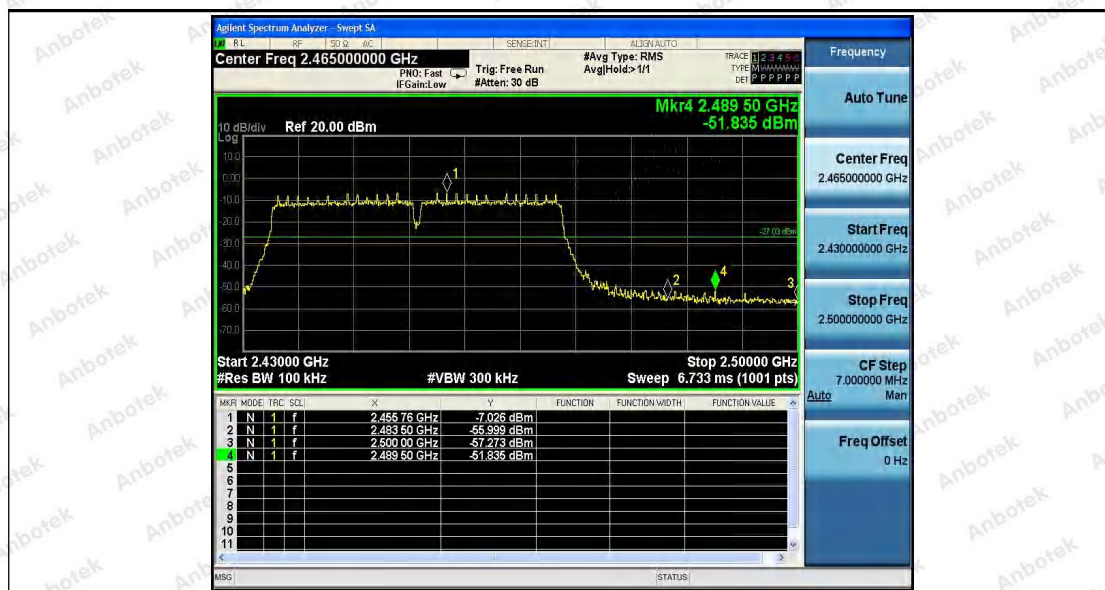
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Appendix F: Conducted Spurious Emission

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	-58.61	≤-16.82	PASS
			1000~26500	3.18	-53.17	≤-16.82	PASS
		2437	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-57.4	≤-16.84	PASS
			1000~26500	3.16	-55.38	≤-16.84	PASS
		2462	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-57.25	≤-16.16	PASS
			1000~26500	3.84	-55.42	≤-16.16	PASS
11G	Ant1	2412	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-60.73	≤-23.94	PASS
			1000~26500	-3.94	-55.53	≤-23.94	PASS
		2437	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-57.76	≤-24.44	PASS
			1000~26500	-4.44	-55.4	≤-24.44	PASS
		2462	Reference	-3.77	-3.77	---	PASS
			30~1000	-3.77	-57.98	≤-23.77	PASS
			1000~26500	-3.77	-55.68	≤-23.77	PASS
11N20	Ant1	2412	Reference	-4.57	-4.57	---	PASS
			30~1000	-4.57	-58.1	≤-24.57	PASS
			1000~26500	-4.57	-55.51	≤-24.57	PASS
		2437	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-58.46	≤-23.69	PASS
			1000~26500	-3.69	-55.13	≤-23.69	PASS
		2462	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-59.65	≤-23.88	PASS
			1000~26500	-3.88	-55.19	≤-23.88	PASS
11N40	Ant1	2422	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-59.1	≤-26.57	PASS
			1000~26500	-6.57	-55.16	≤-26.57	PASS
		2437	Reference	-6.81	-6.81	---	PASS
			30~1000	-6.81	-69.84	≤-26.81	PASS
			1000~26500	-6.81	-55.18	≤-26.81	PASS
		2452	Reference	-6.88	-6.88	---	PASS
			30~1000	-6.88	-70.06	≤-26.88	PASS
			1000~26500	-6.88	-55.52	≤-26.88	PASS

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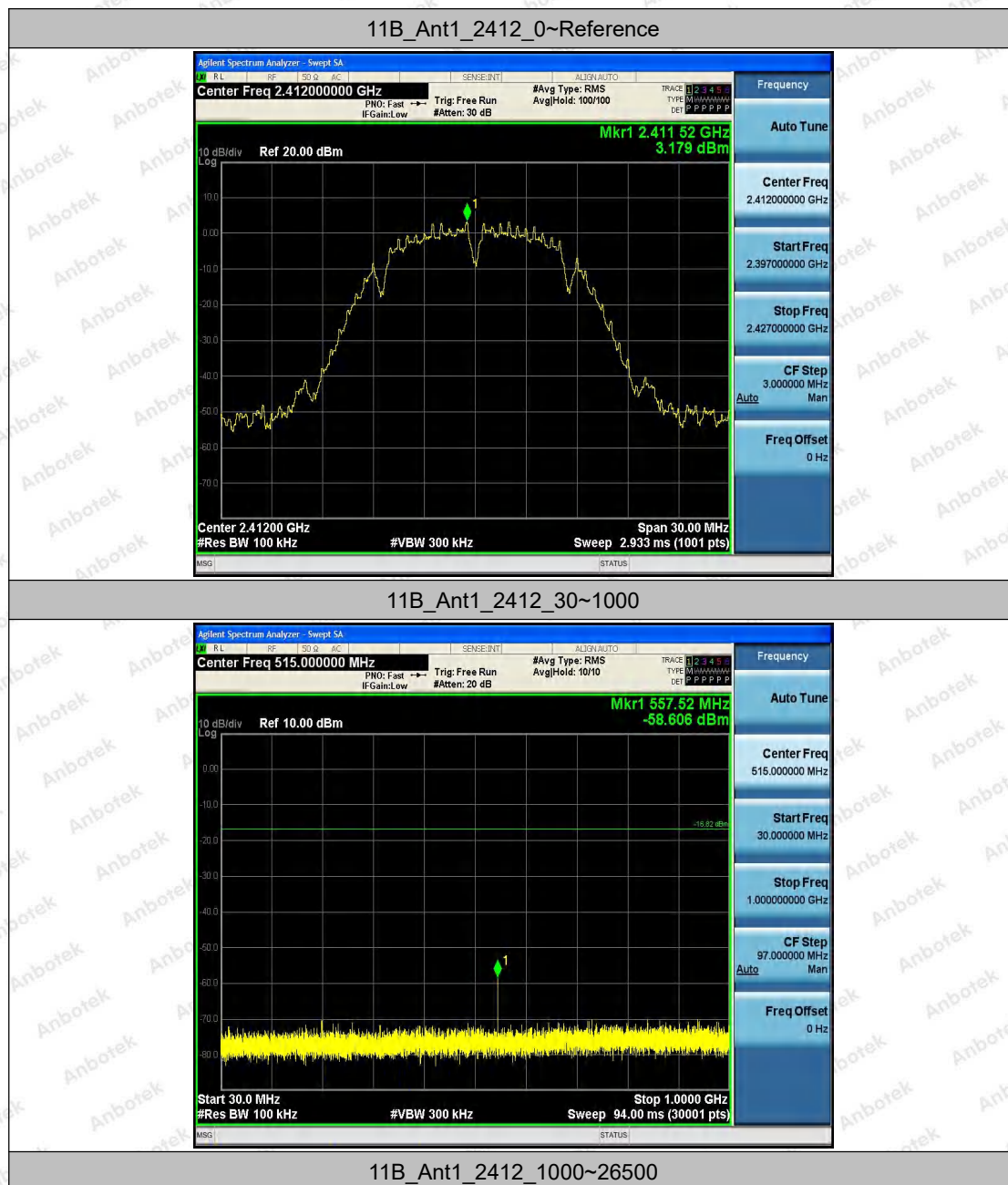


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Test Graphs

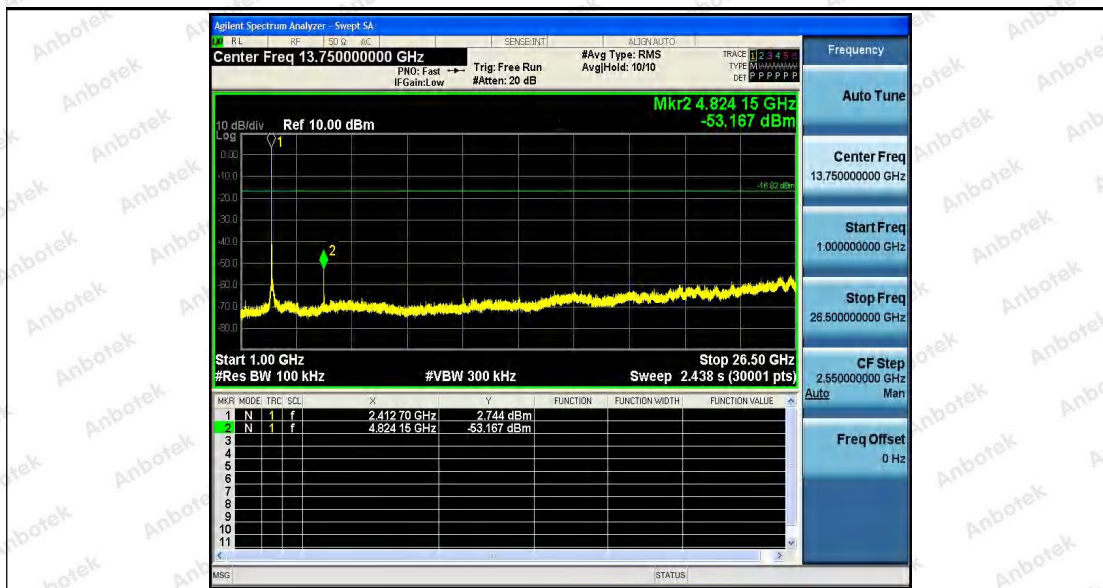


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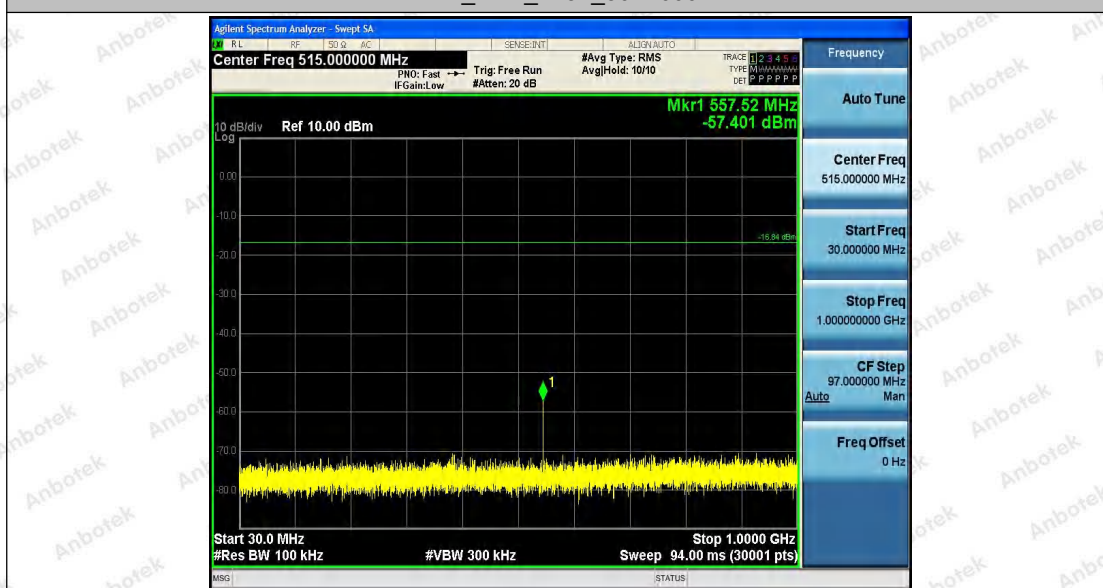
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



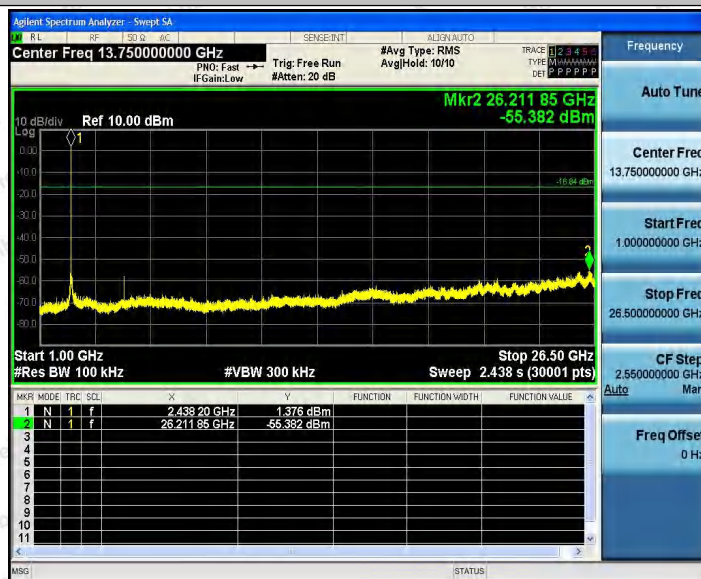
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



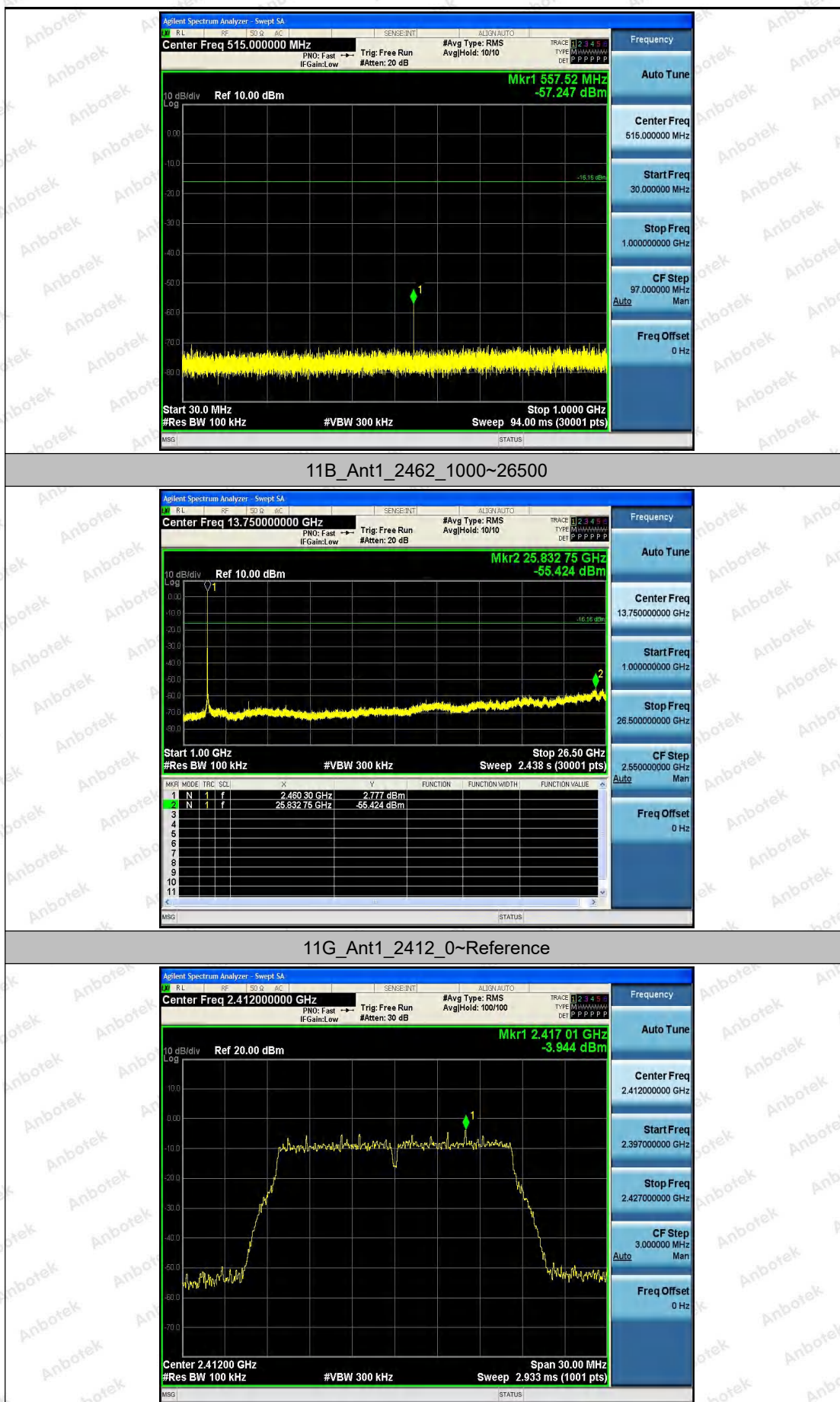
11B_Ant1_2462_30~1000

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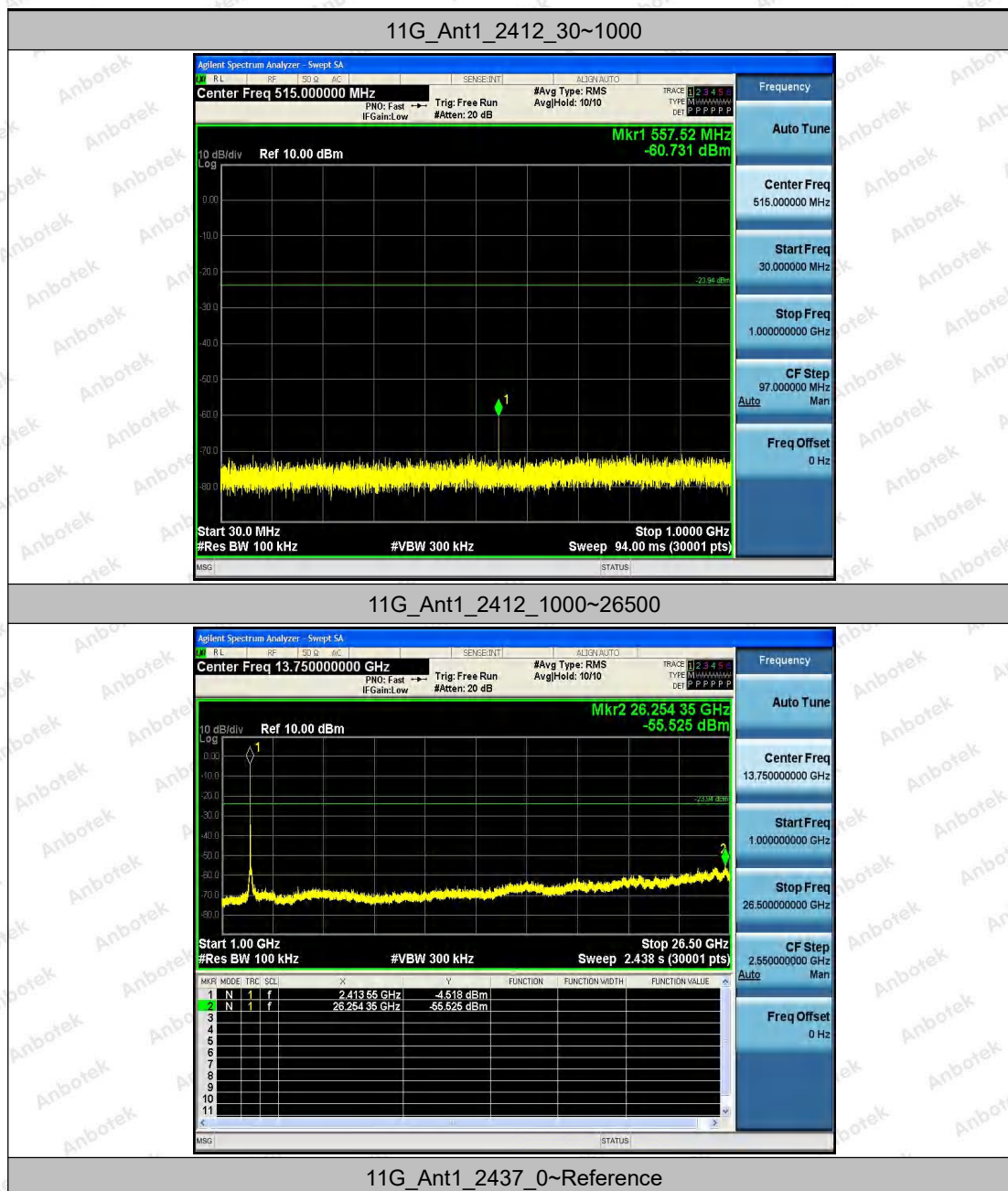


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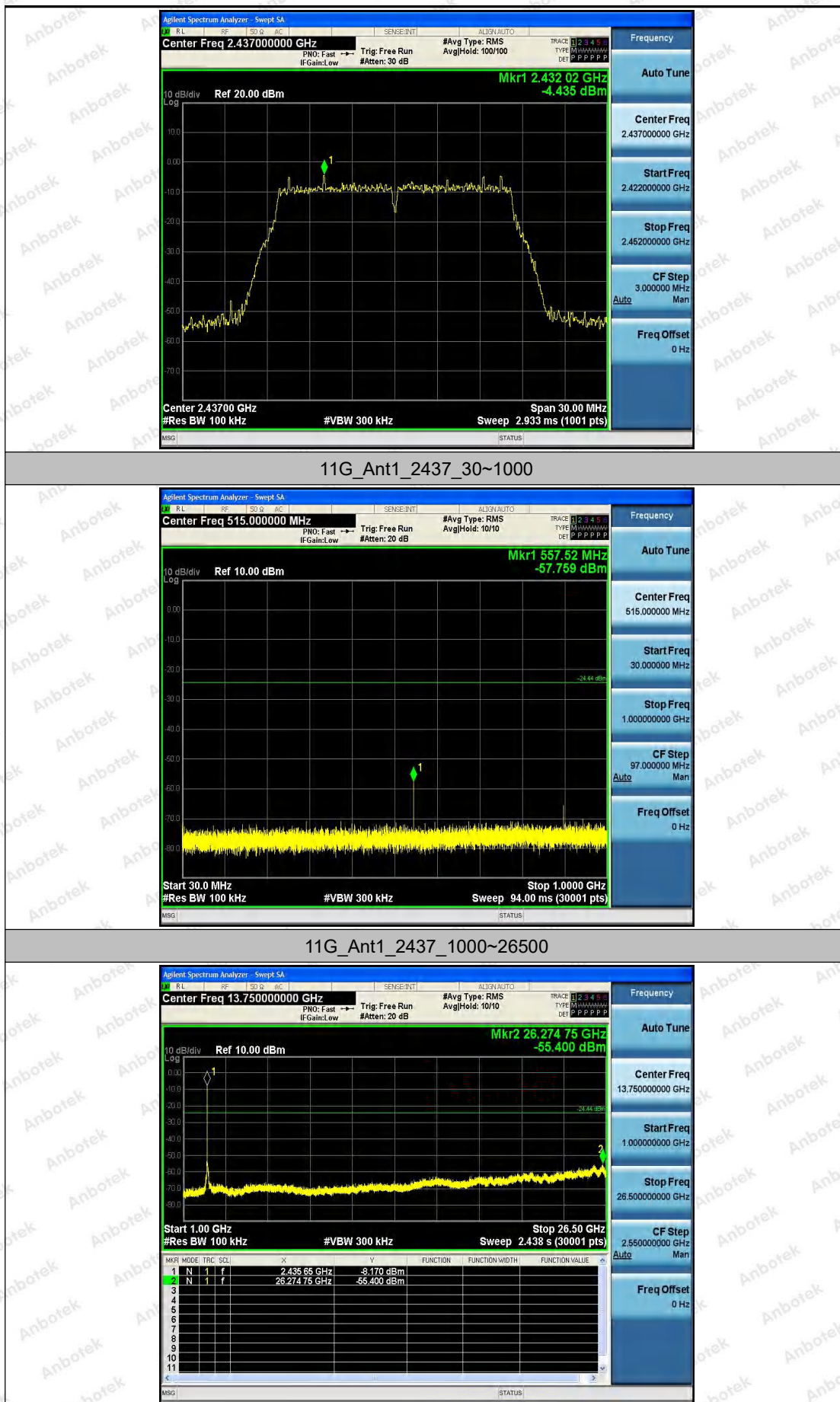


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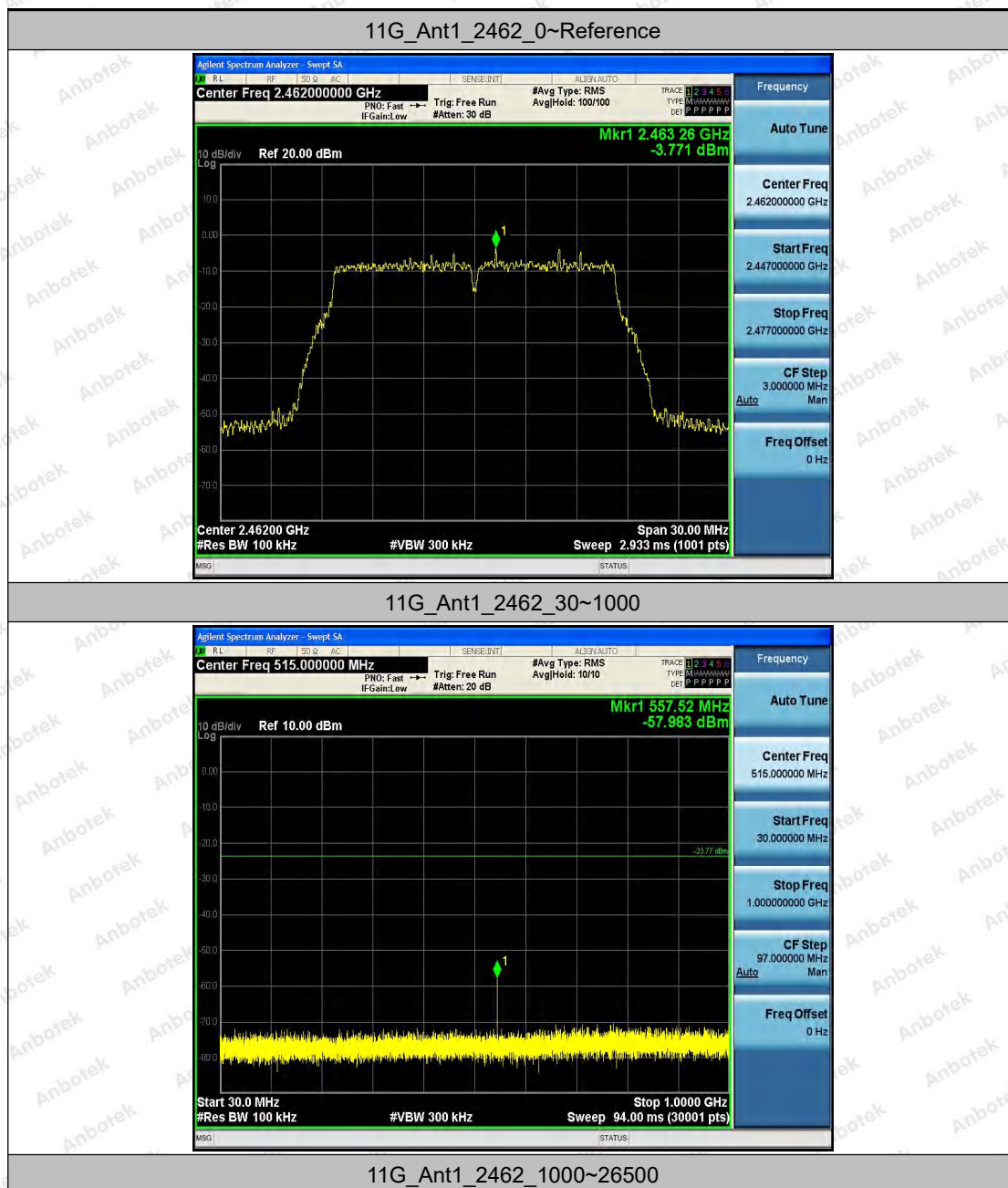


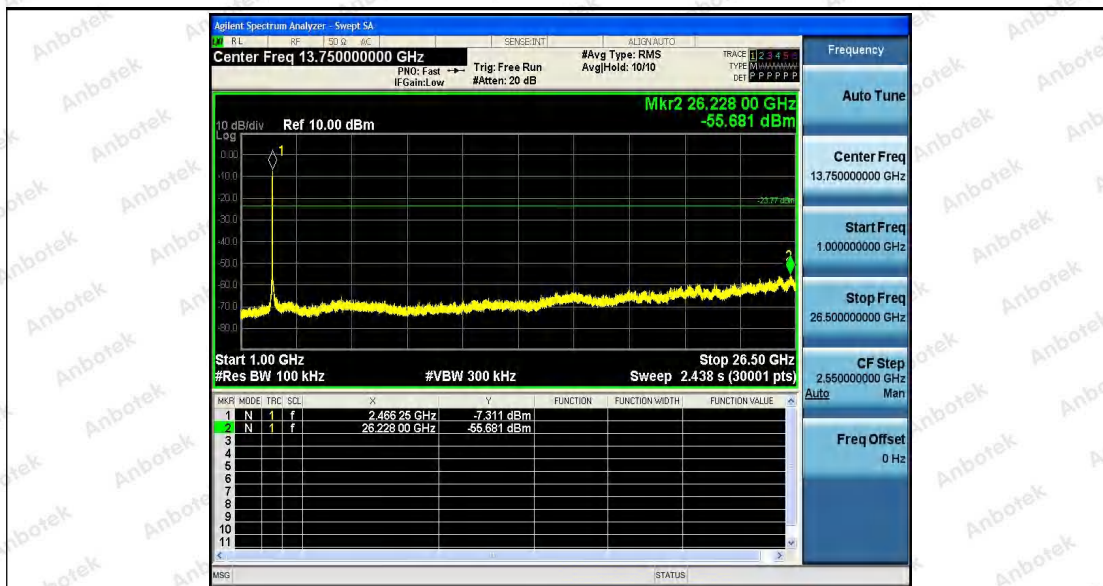
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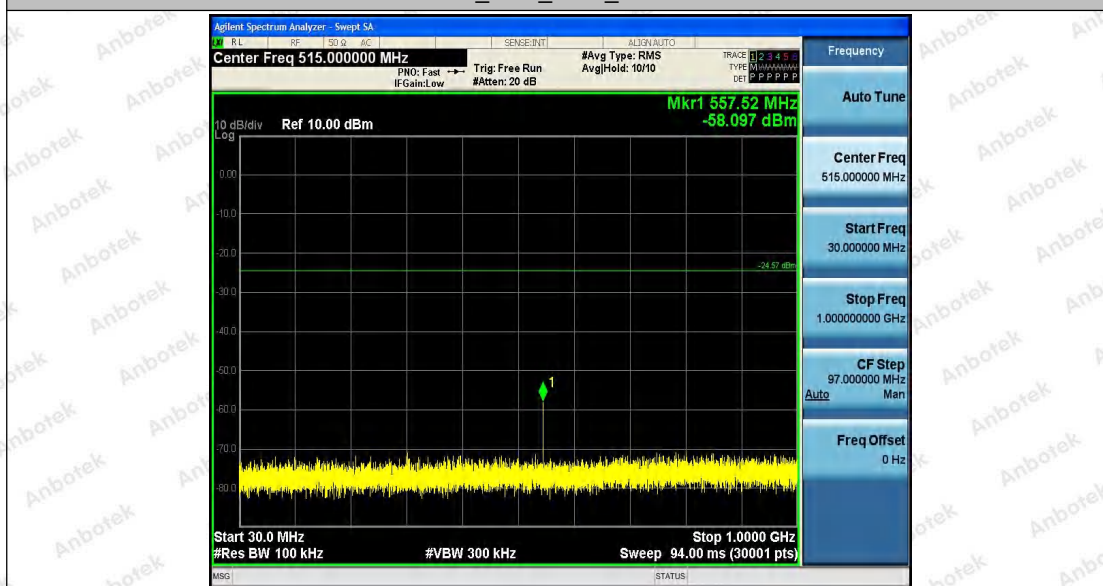




11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000



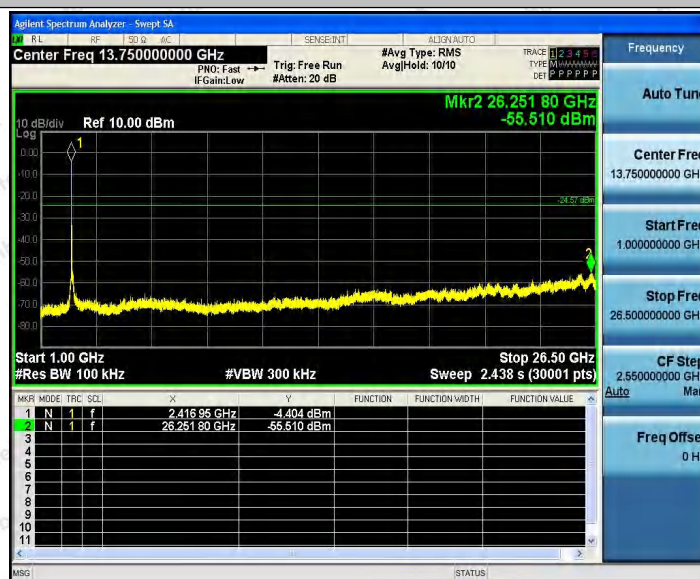
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11N20_Ant1_2412_1000~26500



11N20_Ant1_2437_0~Reference



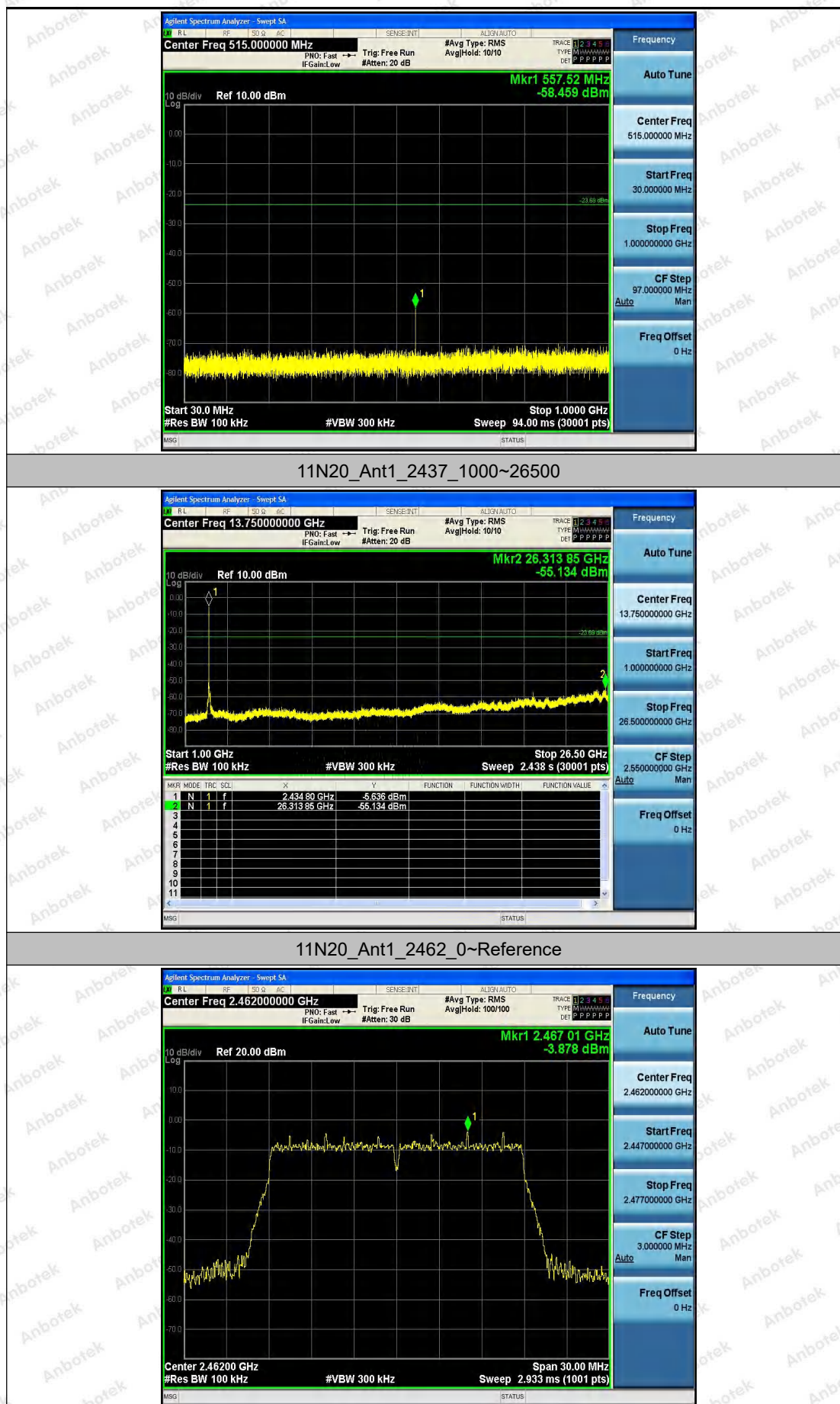
11N20_Ant1_2437_30~1000

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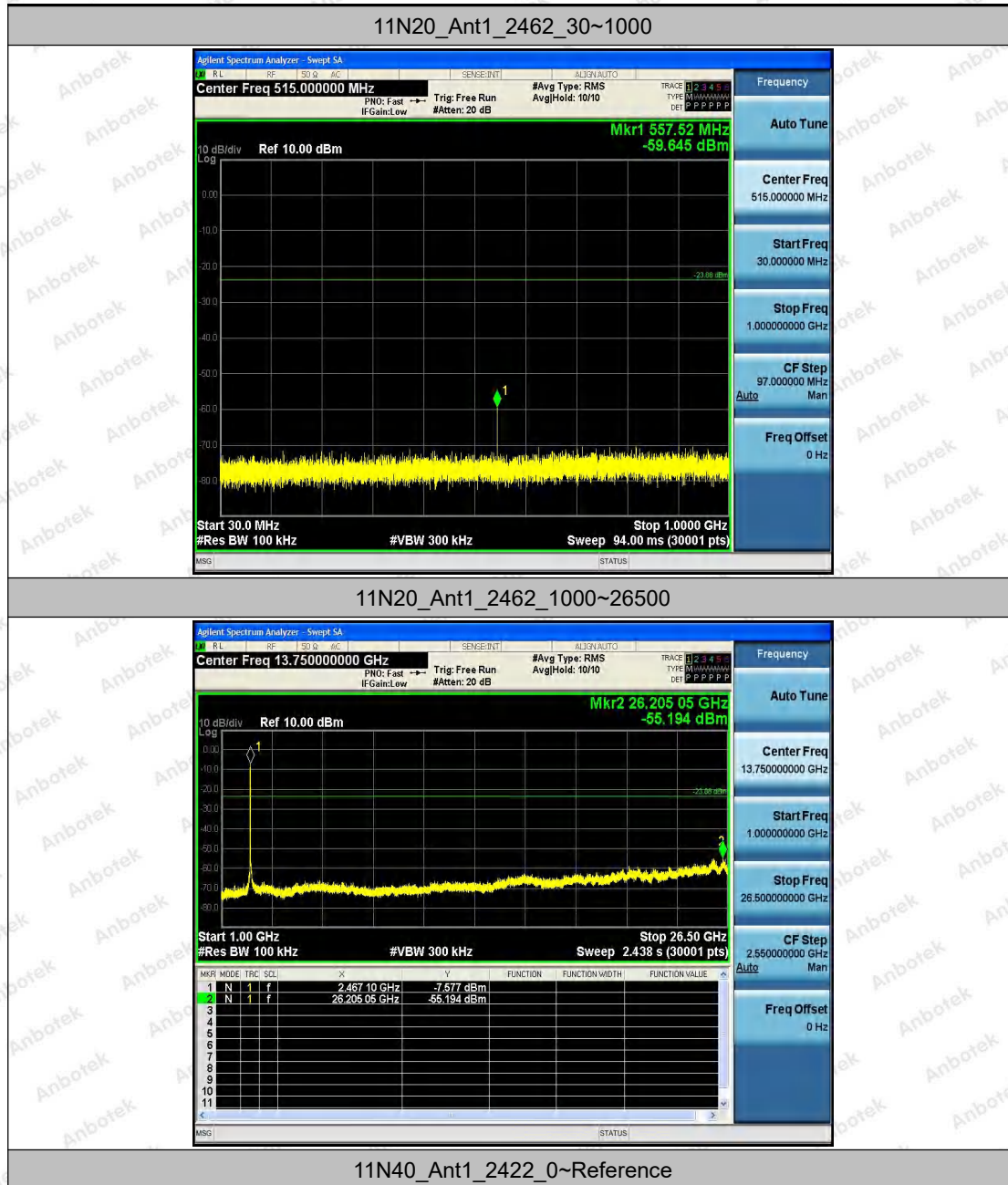


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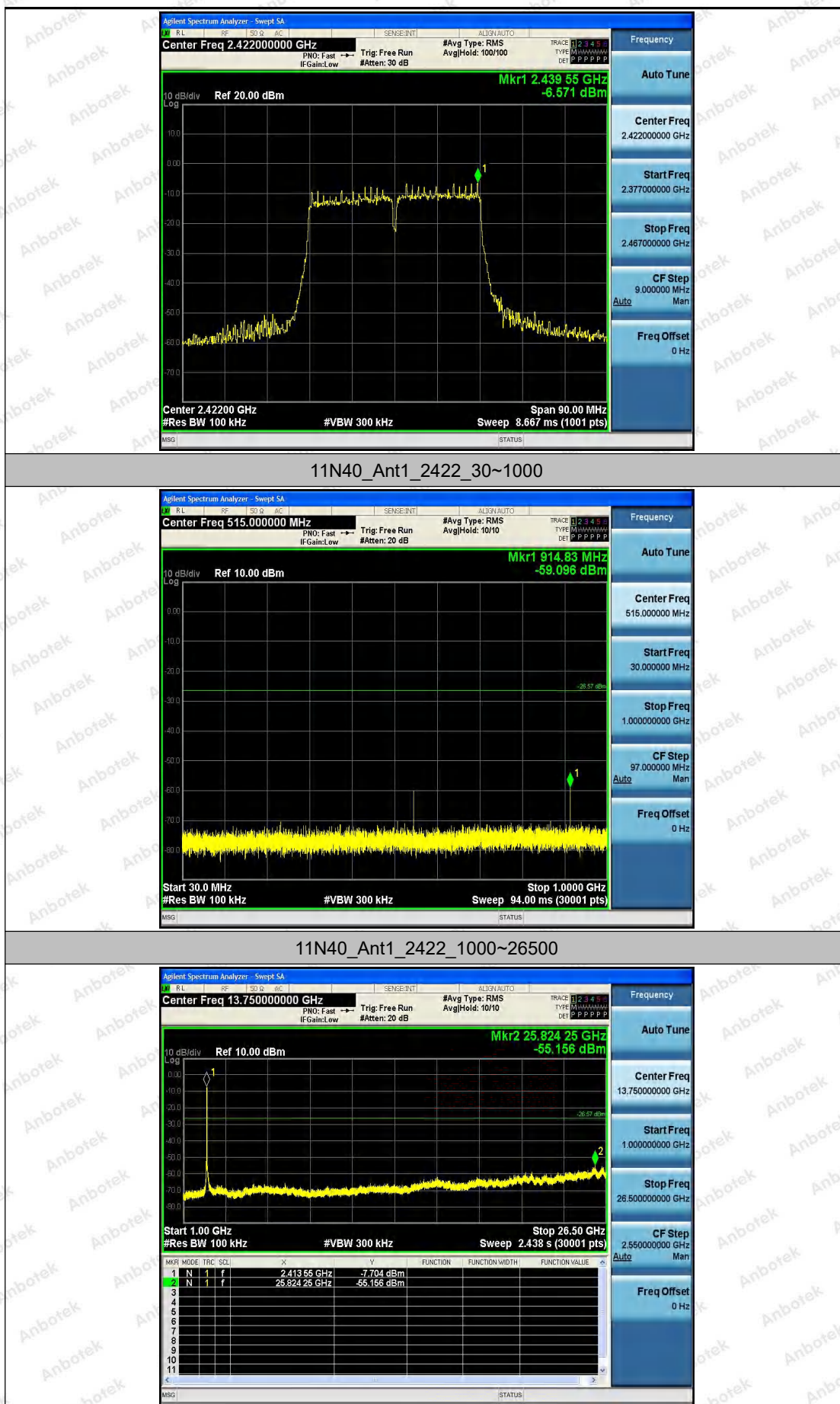


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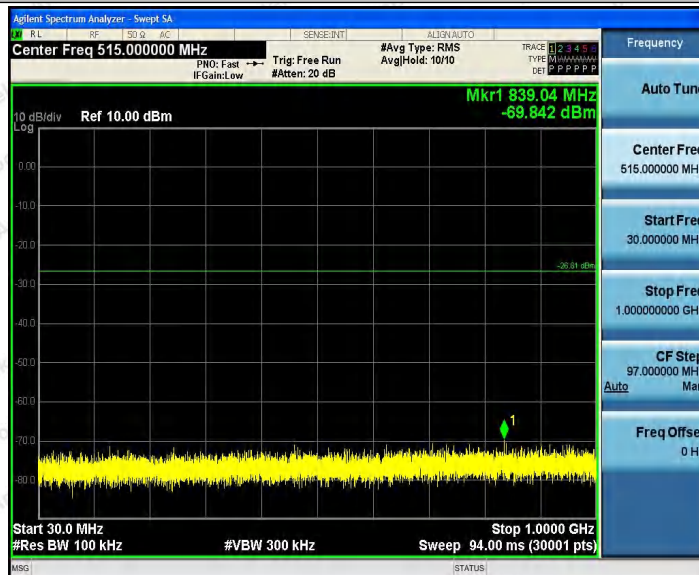
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11N40_Ant1_2437_0~Reference



11N40_Ant1_2437_30~1000



11N40_Ant1_2437_1000~26500

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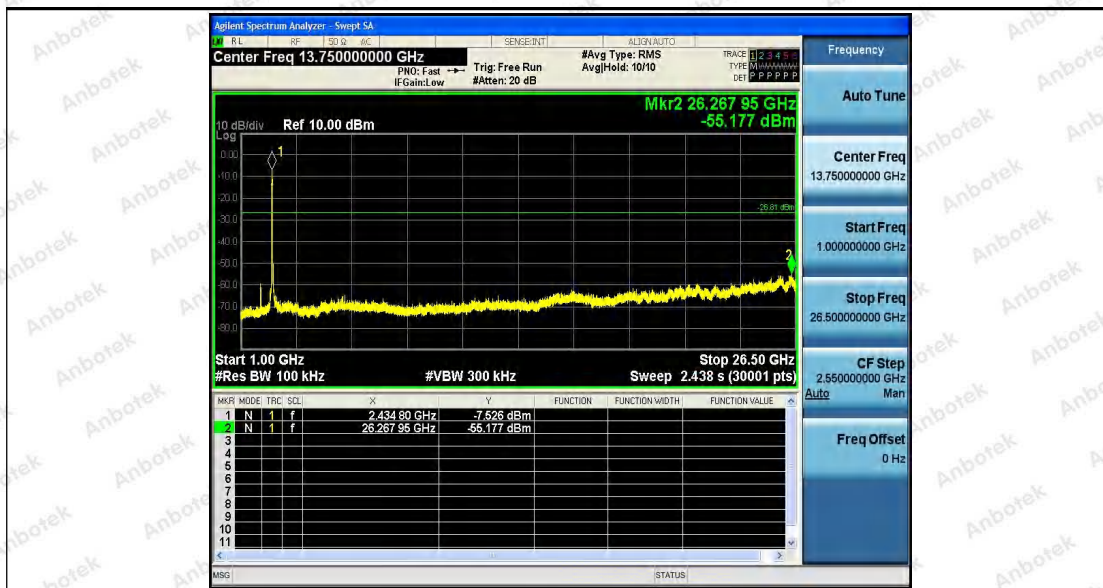
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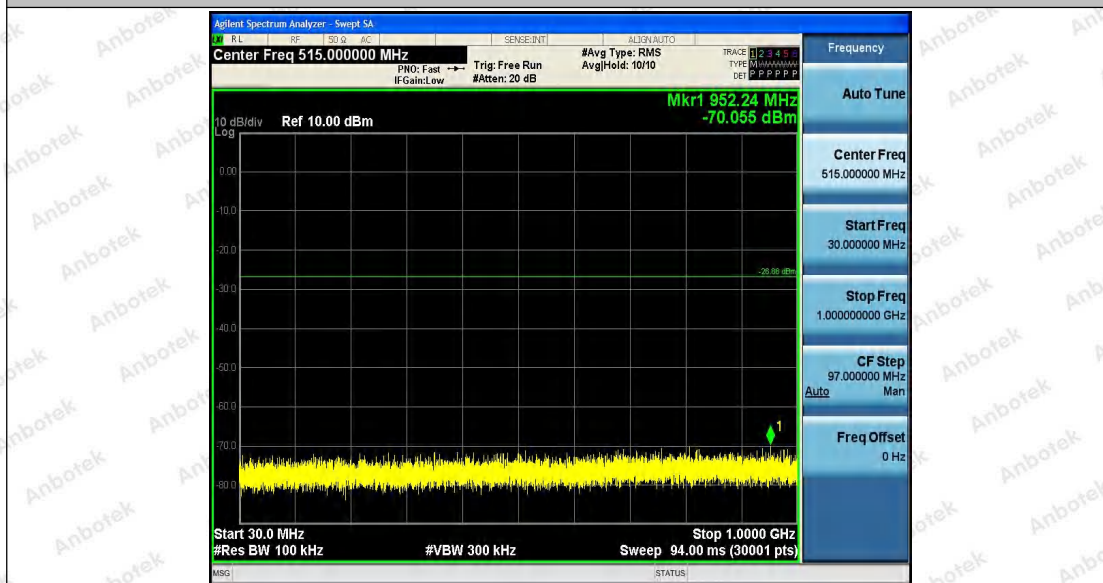
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11N40_Ant1_2452_0~Reference



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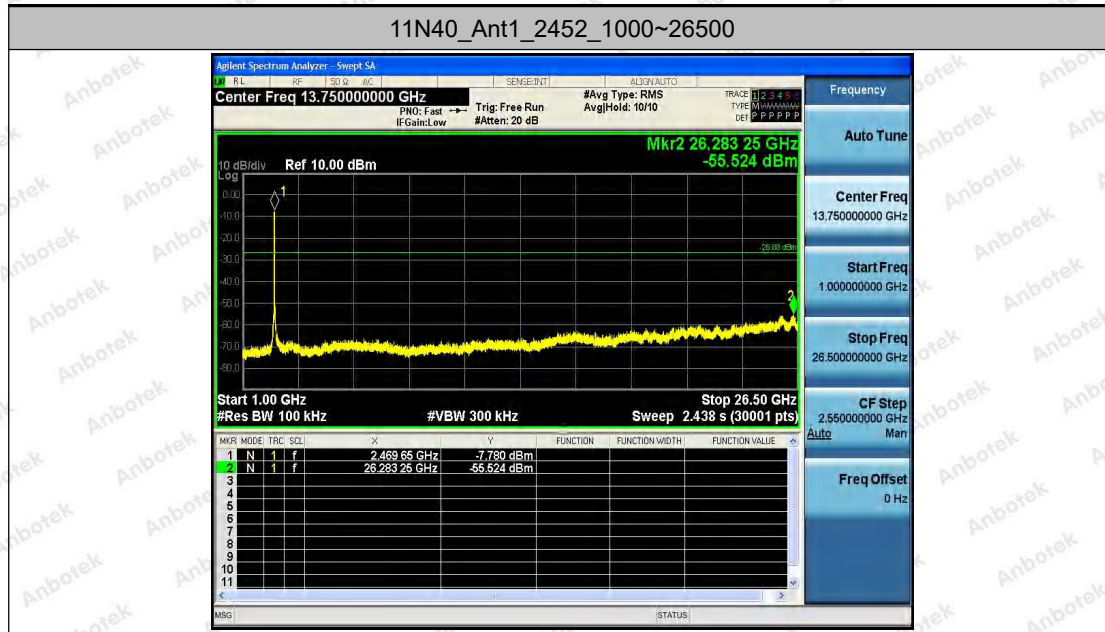


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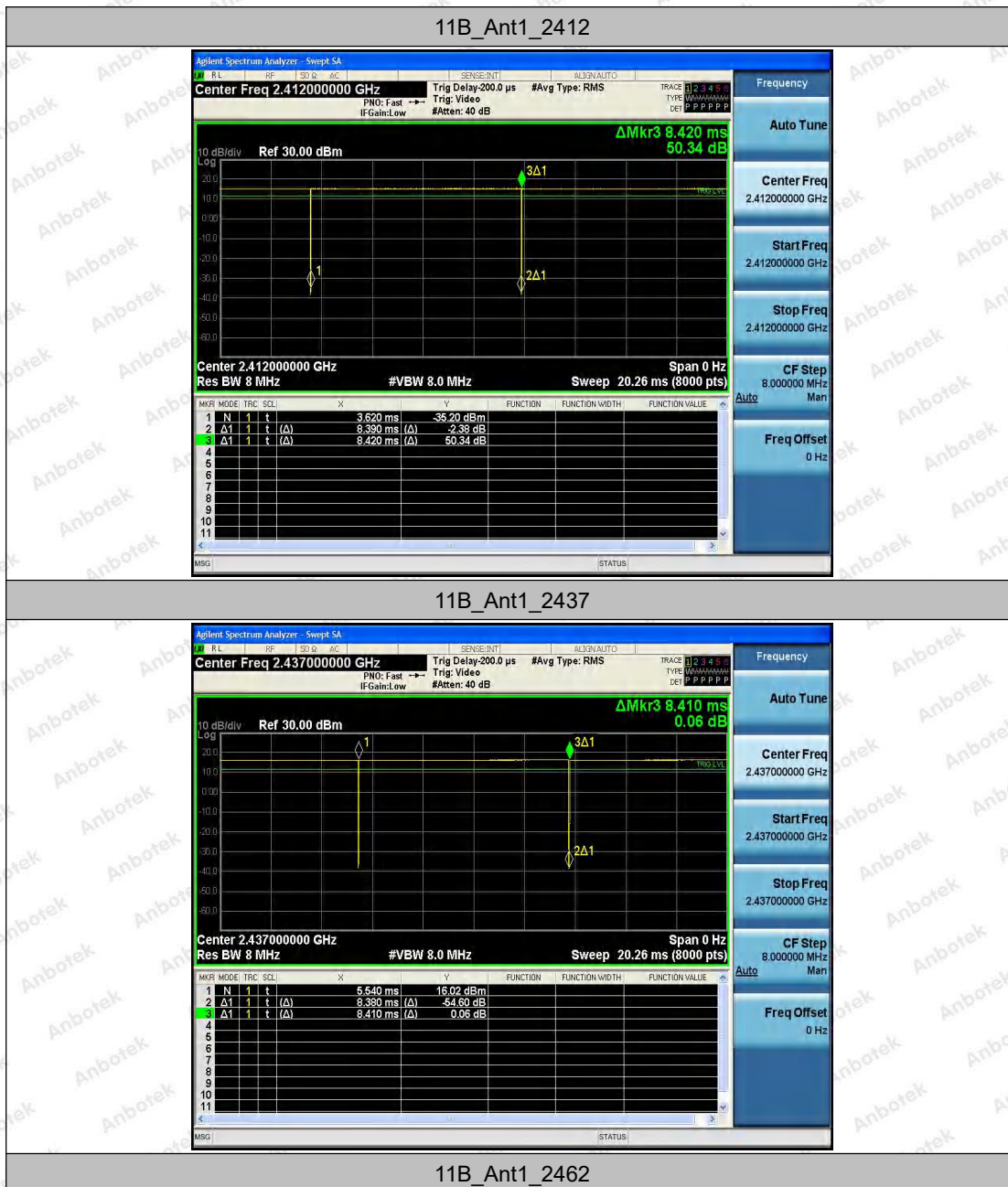
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.42	99.64	---	PASS
		2437	8.38	8.41	99.64	---	PASS
		2462	8.39	8.42	99.64	---	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	1.33	97.74	---	PASS
11N40	Ant1	2422	0.64	0.68	94.12	---	PASS
		2437	0.65	0.68	95.59	---	PASS
		2452	0.65	0.69	94.20	---	PASS

Test Graphs



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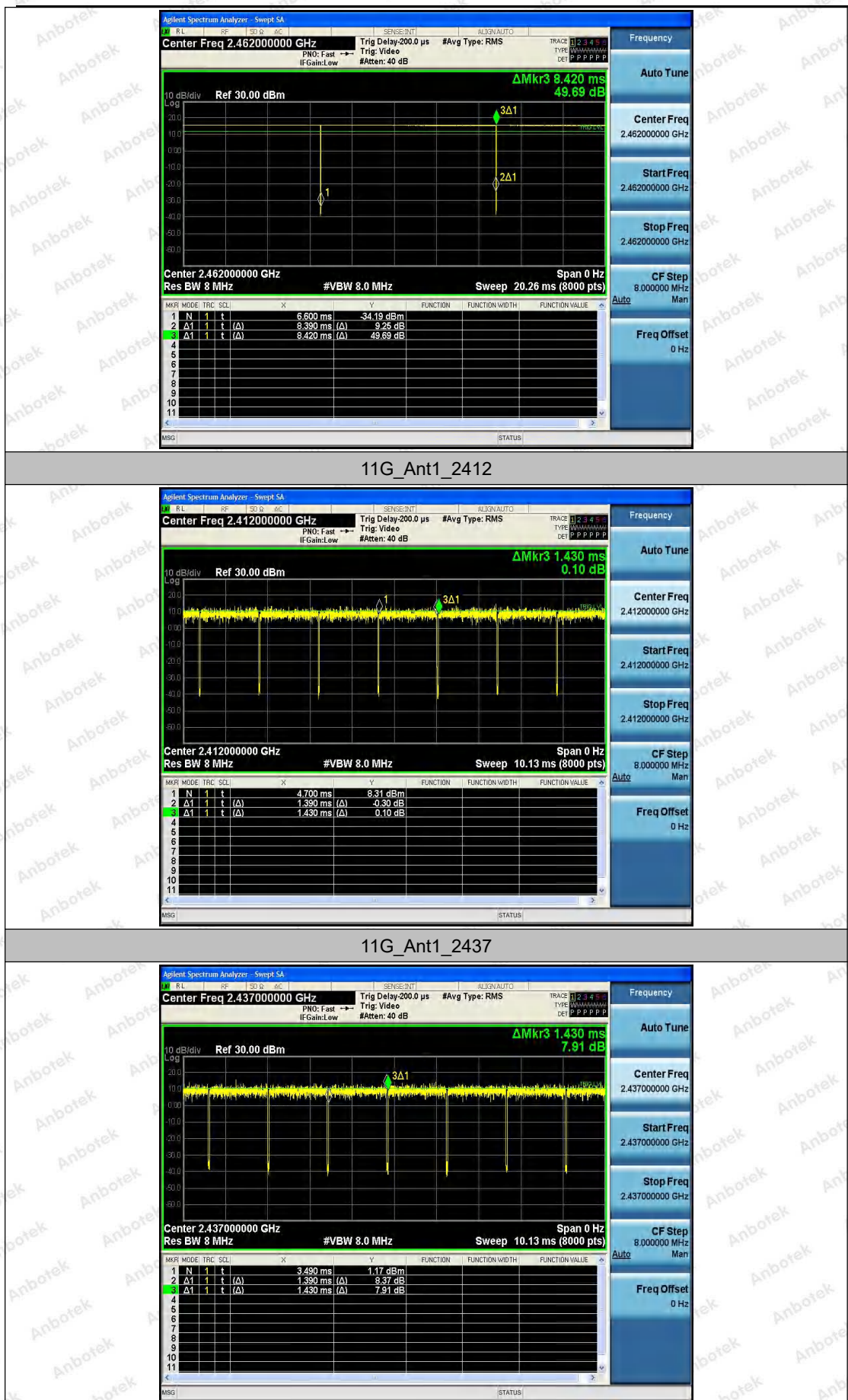
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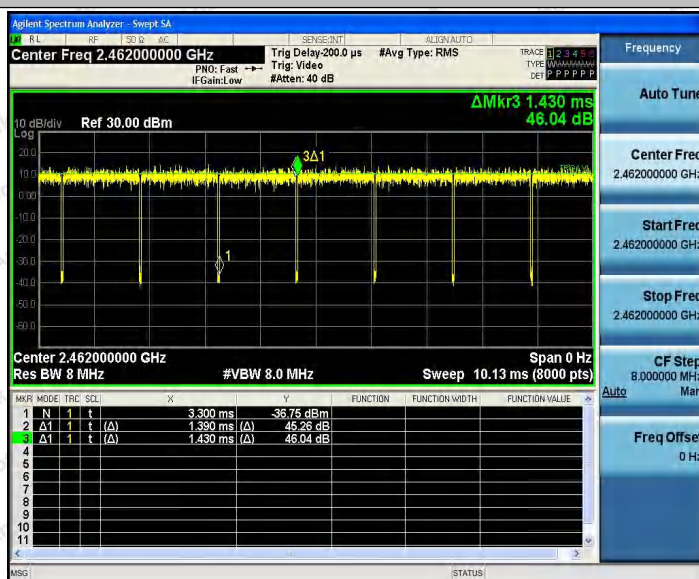
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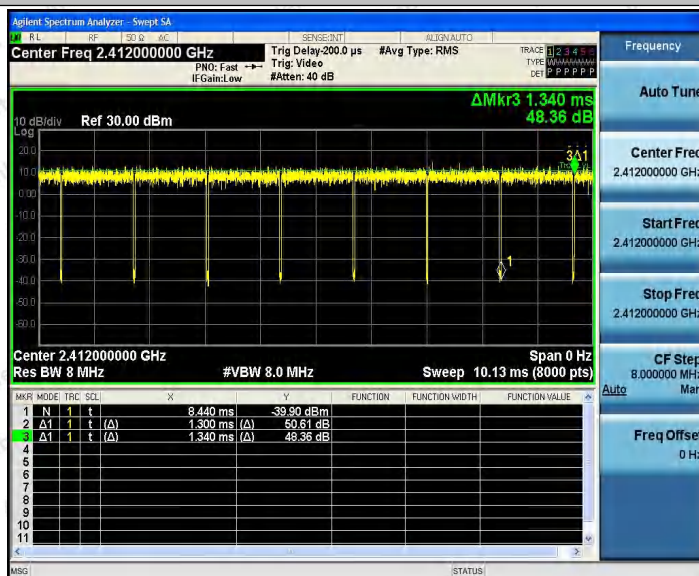
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11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437

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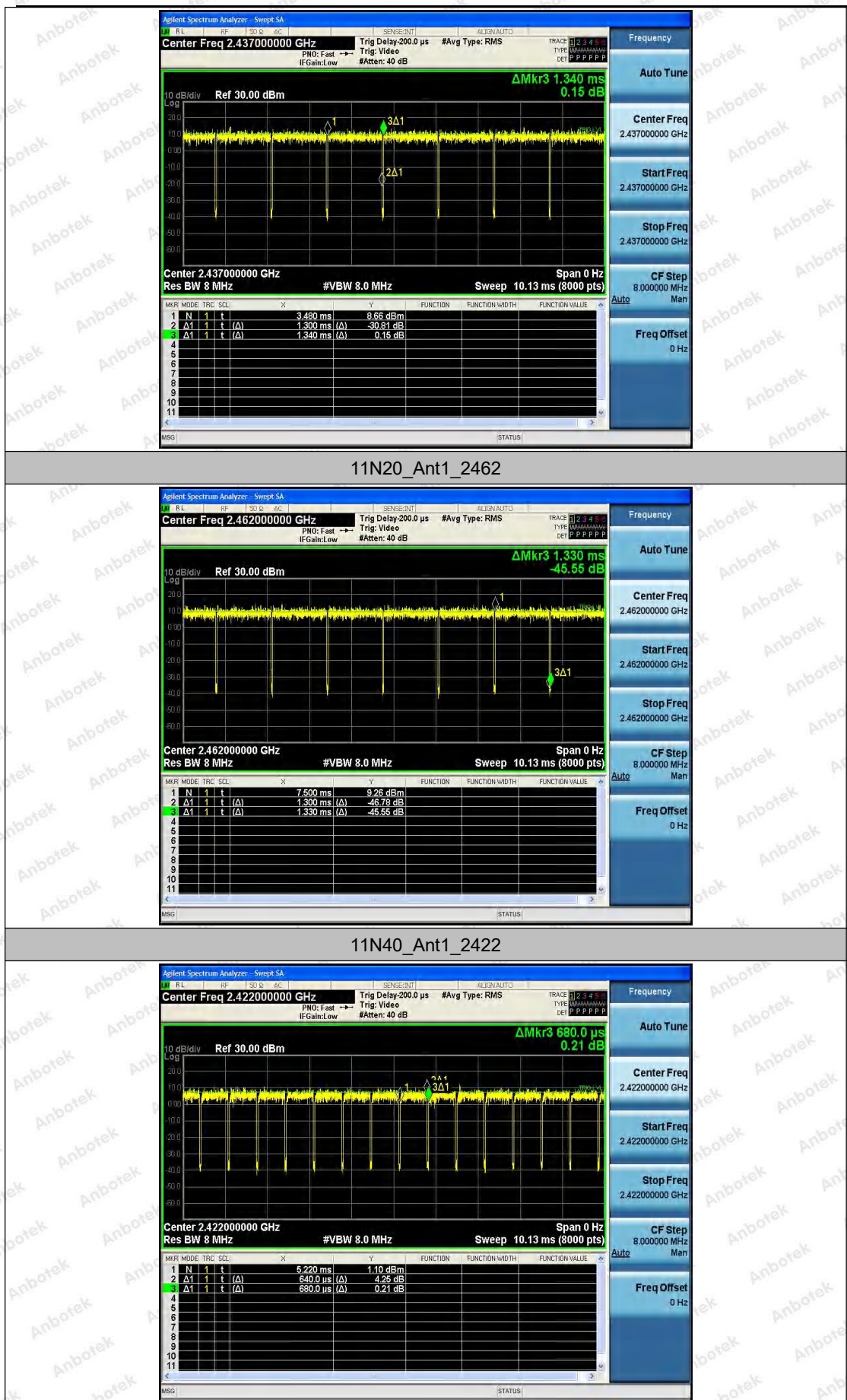
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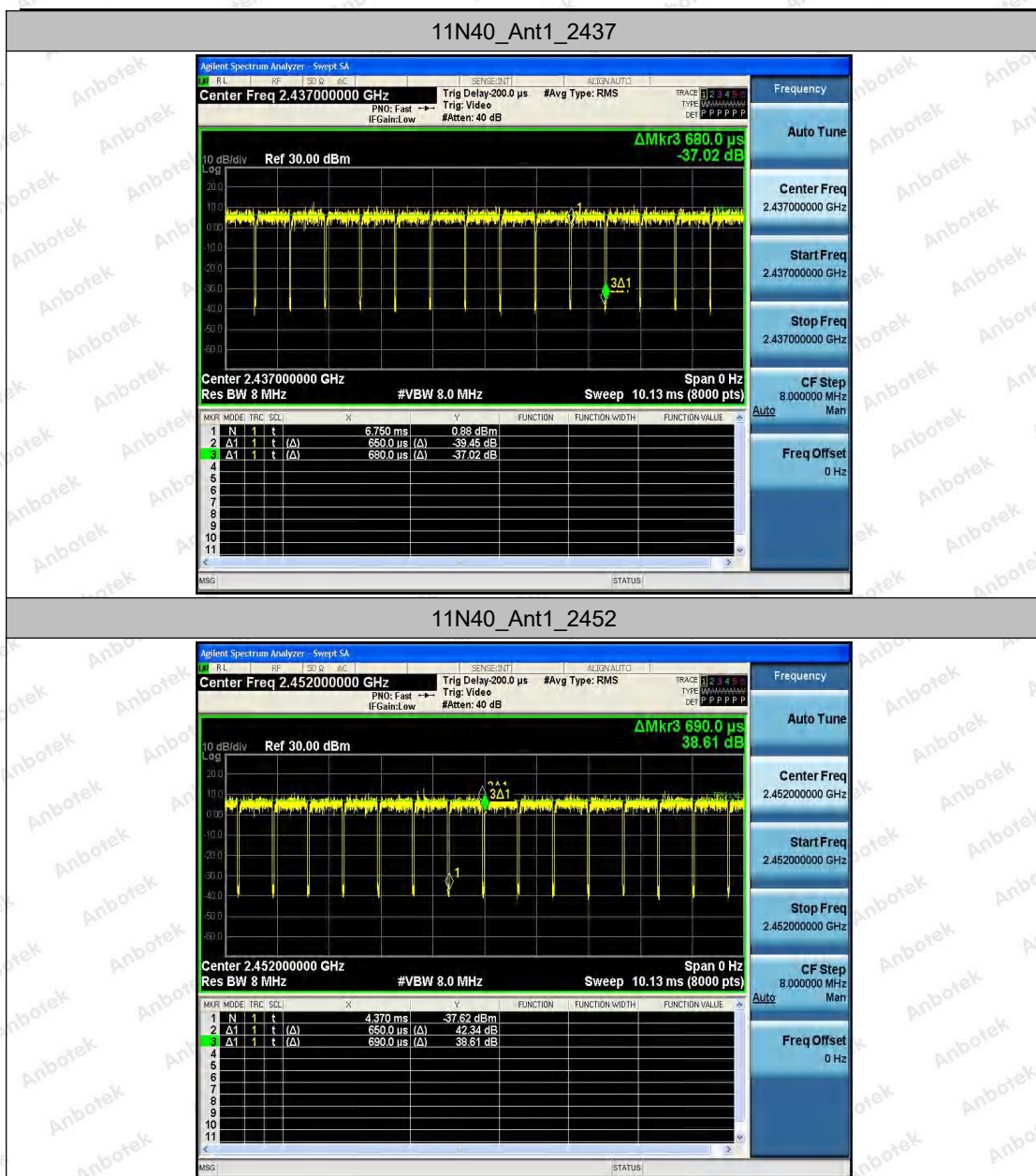


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