

Appendix Test Data

Report No.:	18220WC10276402	Test Sample No.:	1-2-2
Start Test Date:	2021.12.15	Finish Test Date:	2021.12.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	7.640	2407.960	2415.600	≥0.5	PASS
		2437	8.640	2432.920	2441.560	≥0.5	PASS
		2462	9.080	2457.480	2466.560	≥0.5	PASS
11G	Ant1	2412	15.520	2404.080	2419.600	≥0.5	PASS
		2437	16.080	2429.080	2445.160	≥0.5	PASS
		2462	15.120	2454.400	2469.520	≥0.5	PASS
11N20	Ant1	2412	14.720	2404.840	2419.560	≥0.5	PASS
		2437	15.520	2429.400	2444.920	≥0.5	PASS
		2462	15.720	2454.080	2469.800	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



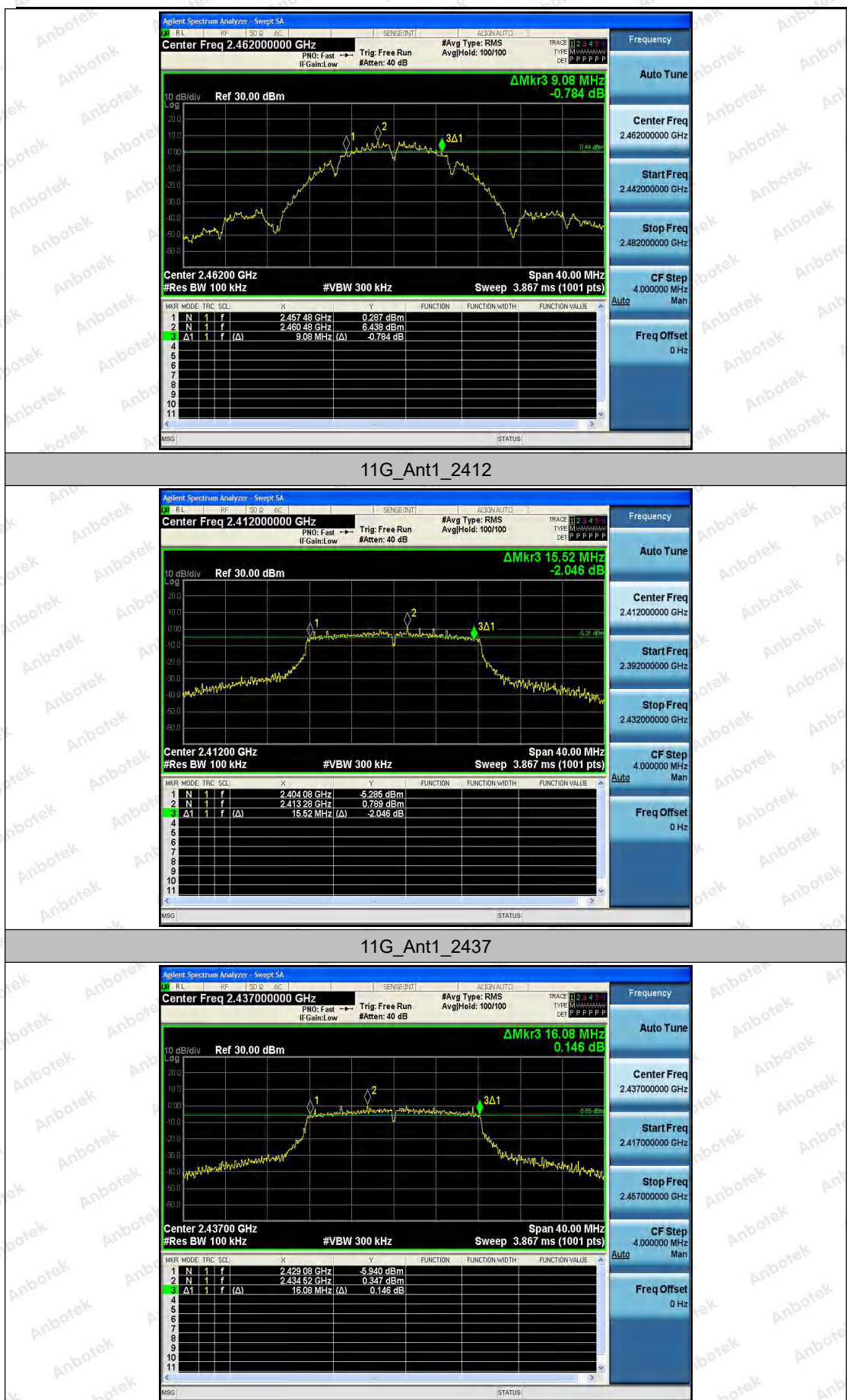
11B_Ant1_2462

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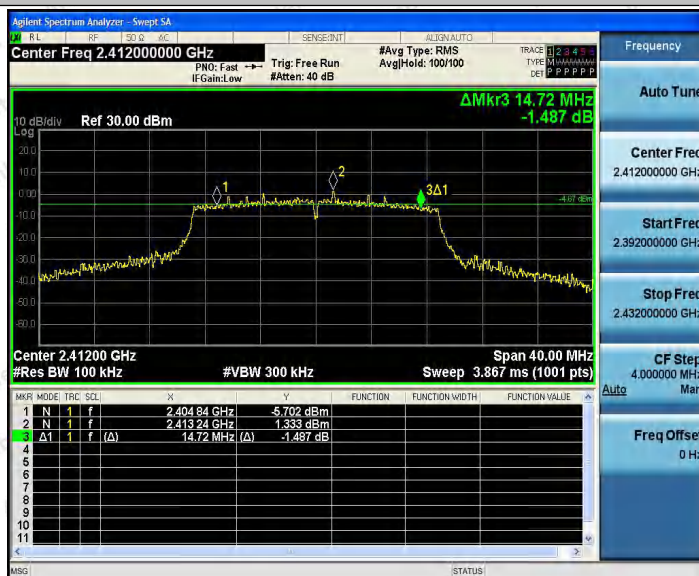
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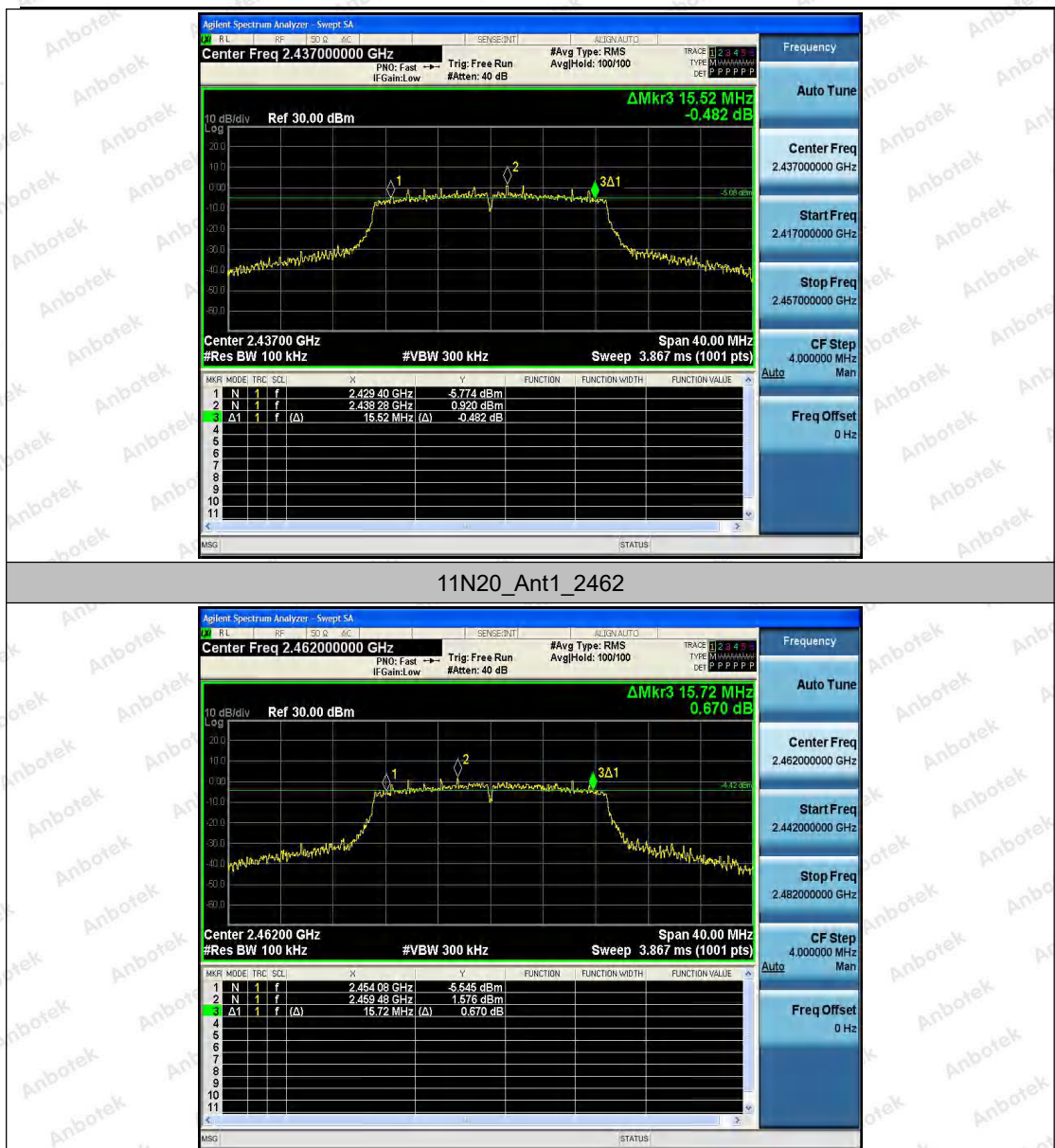
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437



Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.508	2405.162	2418.670	---	PASS
		2437	13.337	2430.389	2443.726	---	PASS
		2462	13.331	2455.356	2468.687	---	PASS
11G	Ant1	2412	16.974	2403.446	2420.420	---	PASS
		2437	16.976	2428.563	2445.539	---	PASS
		2462	16.810	2453.630	2470.440	---	PASS
11N20	Ant1	2412	18.039	2402.925	2420.964	---	PASS
		2437	17.901	2428.103	2446.004	---	PASS
		2462	17.876	2453.065	2470.941	---	PASS

Test Graphs

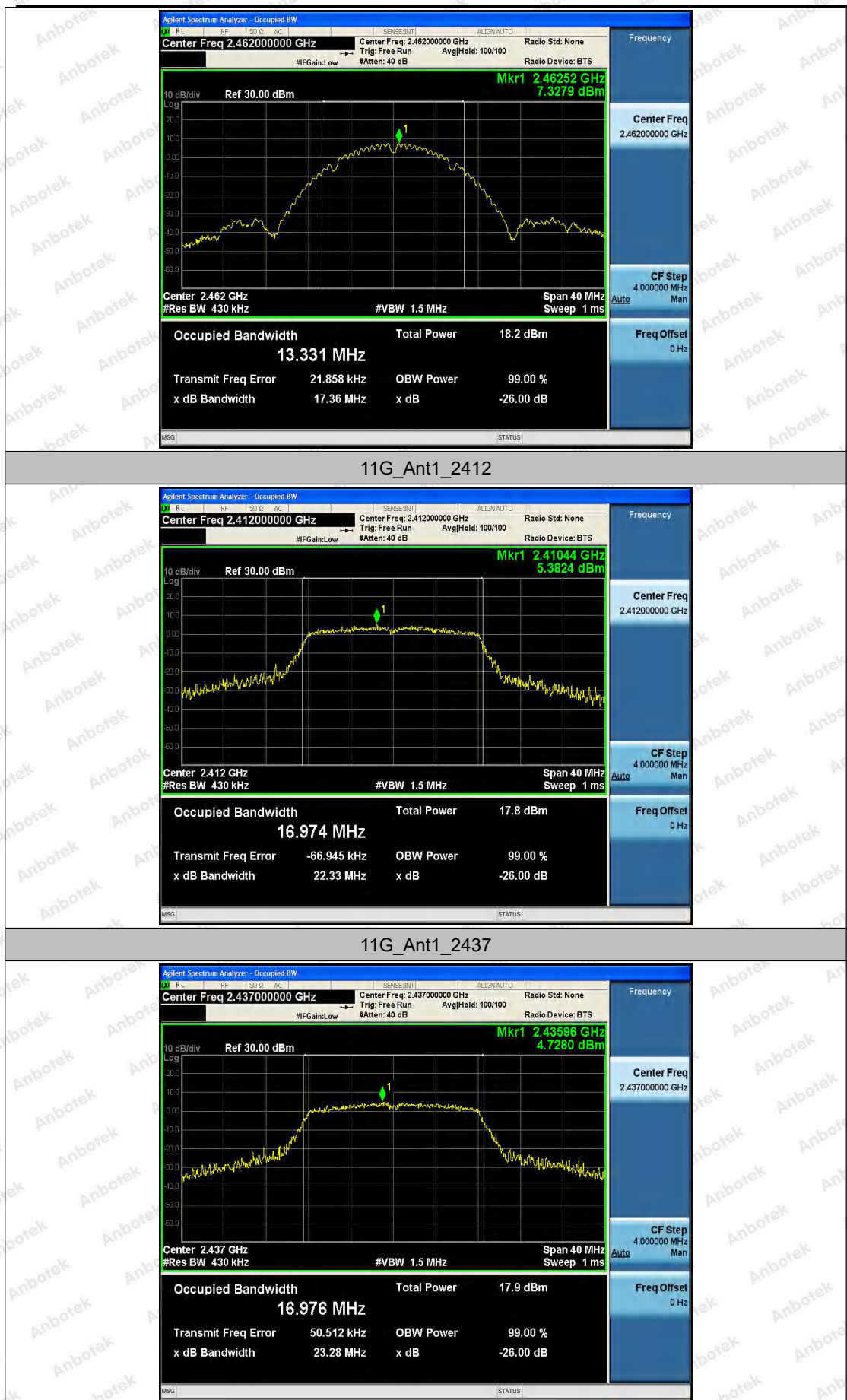


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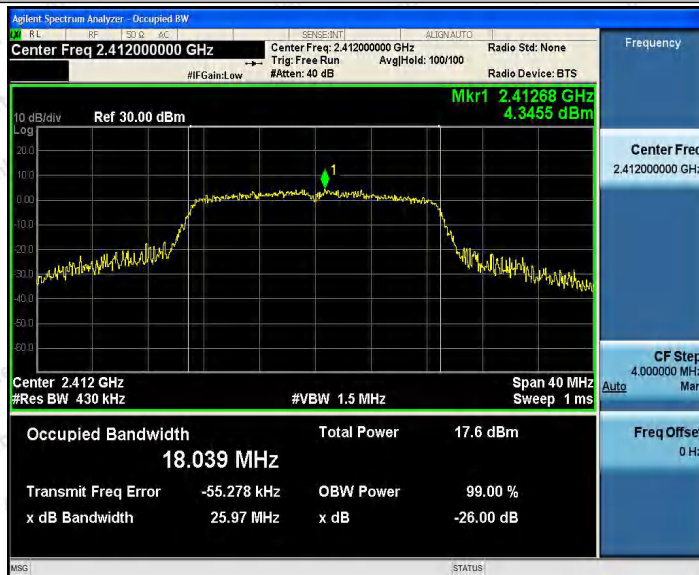
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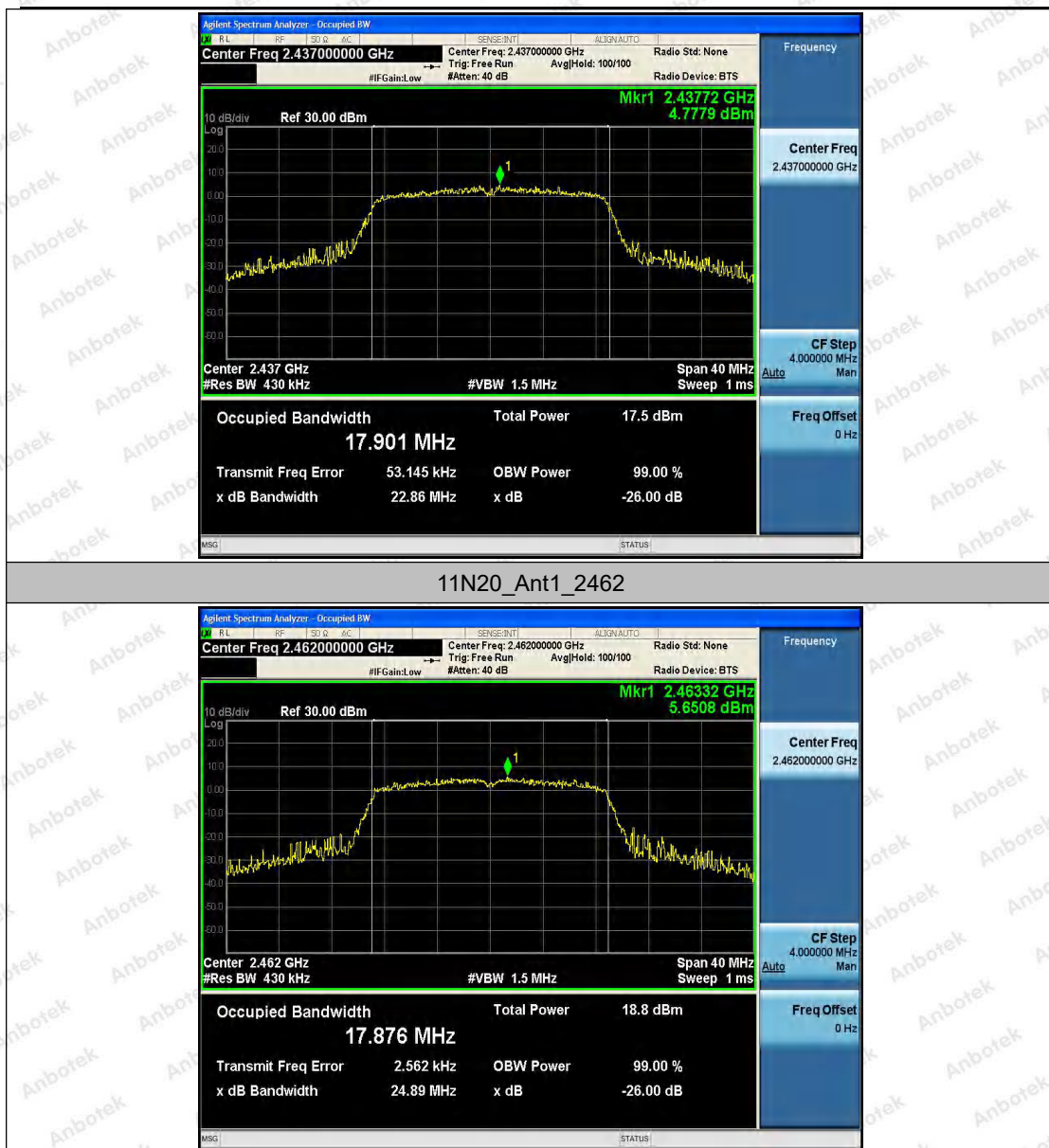
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11N20_Ant1_2412



11N20_Ant1_2437



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Appendix C: Maximum conducted output power

Test Result

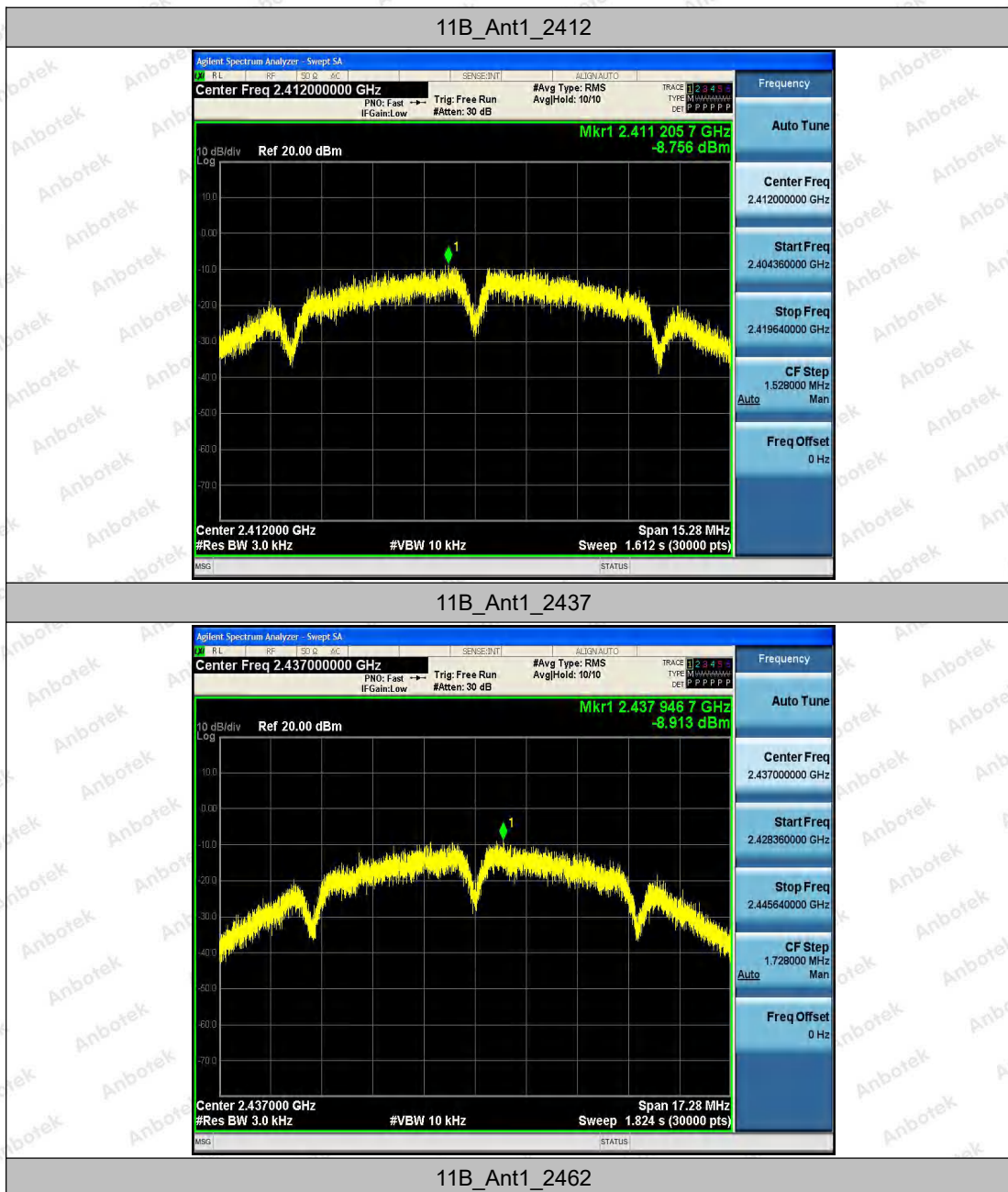
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.85	≤30	PASS
		2437	16.79	≤30	PASS
		2462	18.15	≤30	PASS
11G	Ant1	2412	18.82	≤30	PASS
		2437	18.96	≤30	PASS
		2462	20.00	≤30	PASS
11N20	Ant1	2412	18.62	≤30	PASS
		2437	18.61	≤30	PASS
		2462	19.88	≤30	PASS

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.76	≤8	PASS
		2437	-8.91	≤8	PASS
		2462	-7.2	≤8	PASS
11G	Ant1	2412	-12.82	≤8	PASS
		2437	-12.77	≤8	PASS
		2462	-12.15	≤8	PASS
11N20	Ant1	2412	-13.02	≤8	PASS
		2437	-12.97	≤8	PASS
		2462	-11.77	≤8	PASS

Test Graphs



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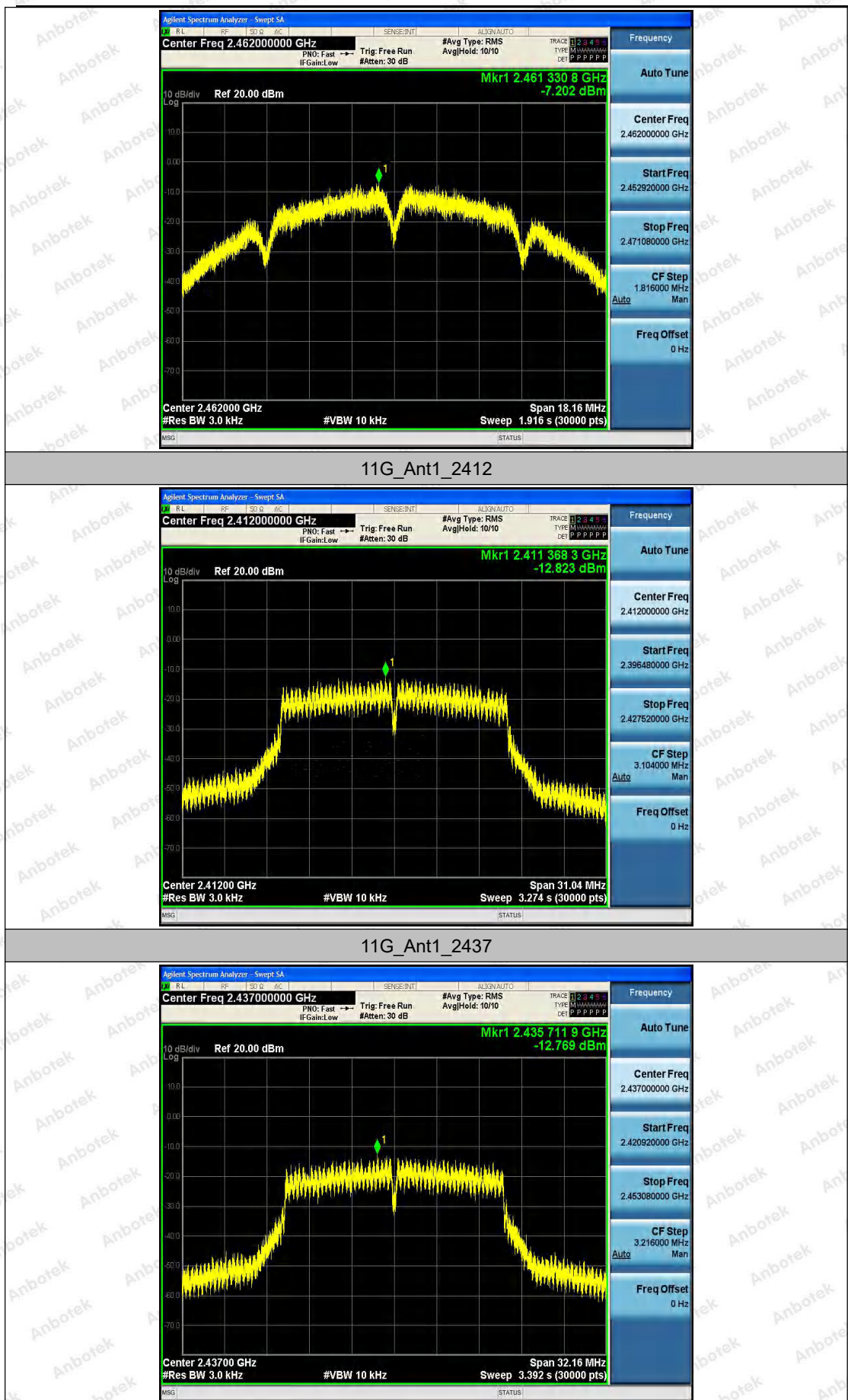
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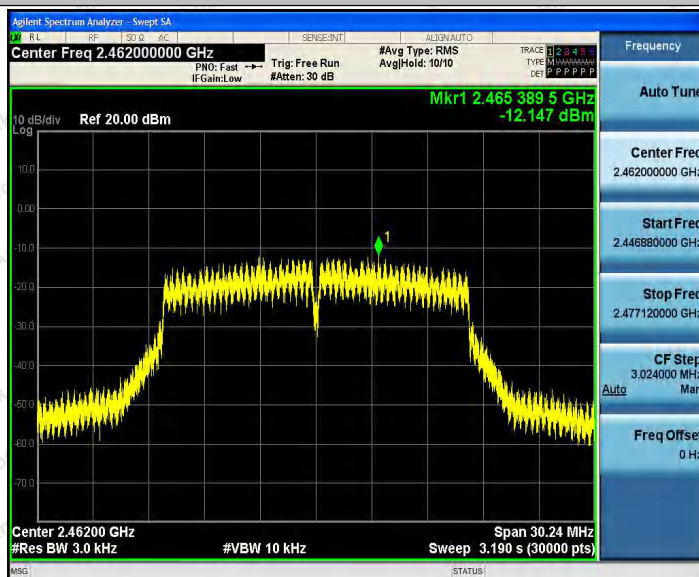
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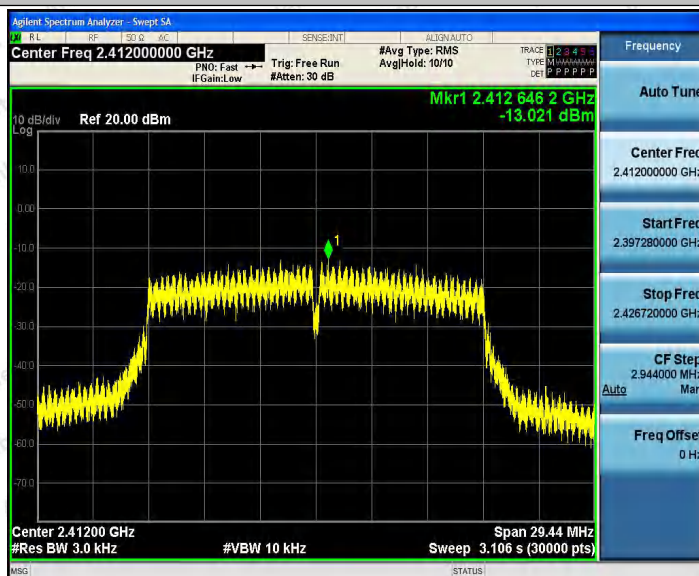
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11G_Ant1_2462



11N20_Ant1_2412



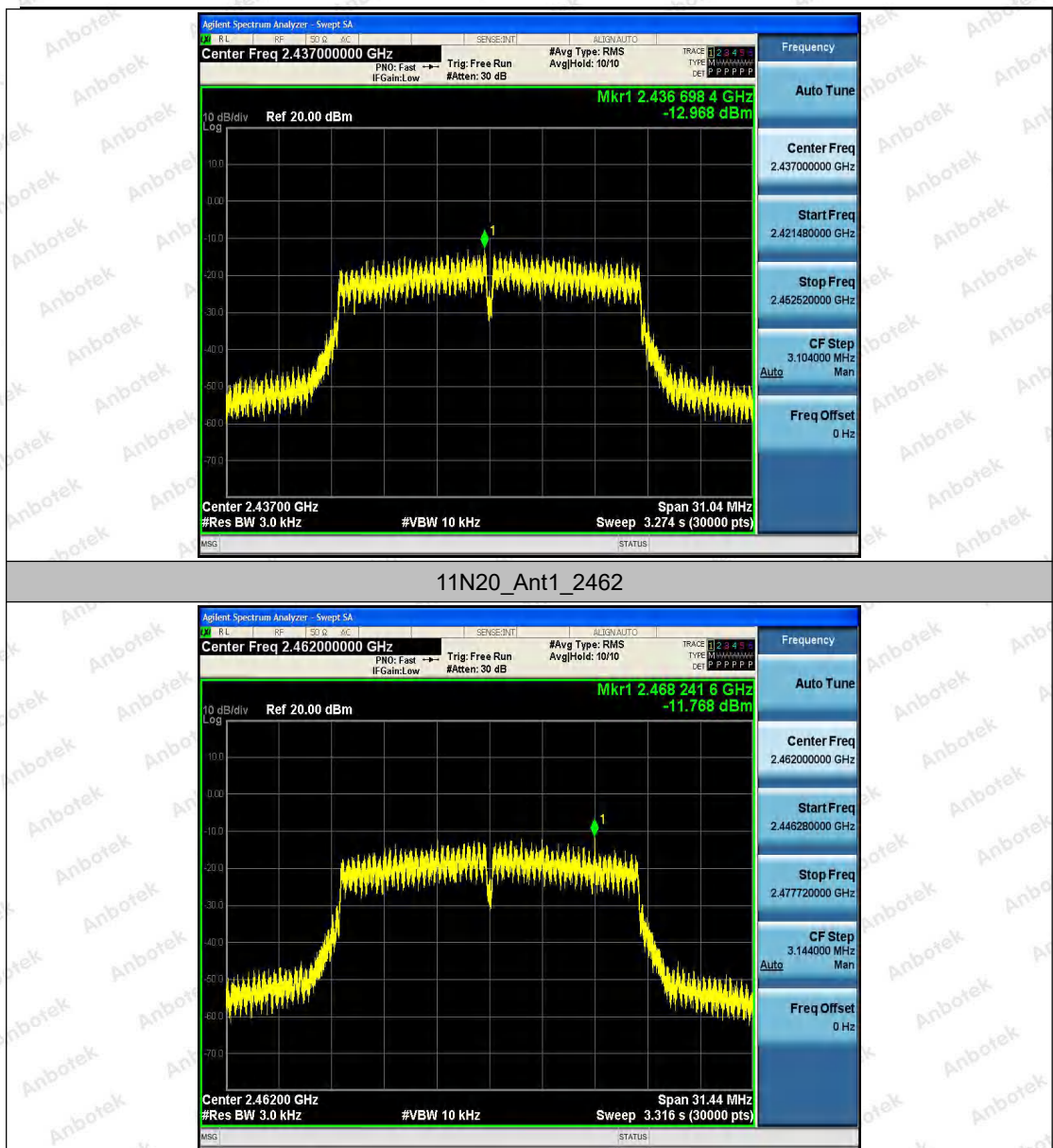
11N20_Ant1_2437

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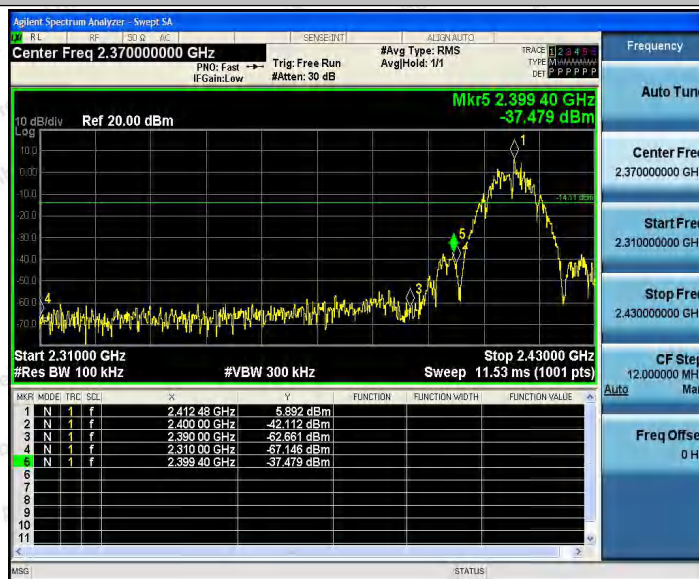
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.89	-37.48	≤ -14.11	PASS
		High	2462	6.85	-49.68	≤ -13.15	PASS
11G	Ant1	Low	2412	0.47	-28.61	≤ -19.53	PASS
		High	2462	2.26	-46.96	≤ -17.74	PASS
11N20	Ant1	Low	2412	0.99	-27.81	≤ -19.01	PASS
		High	2462	2.16	-41.35	≤ -17.84	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11G_Ant1_High_2462



11N20_Ant1_Low_2412

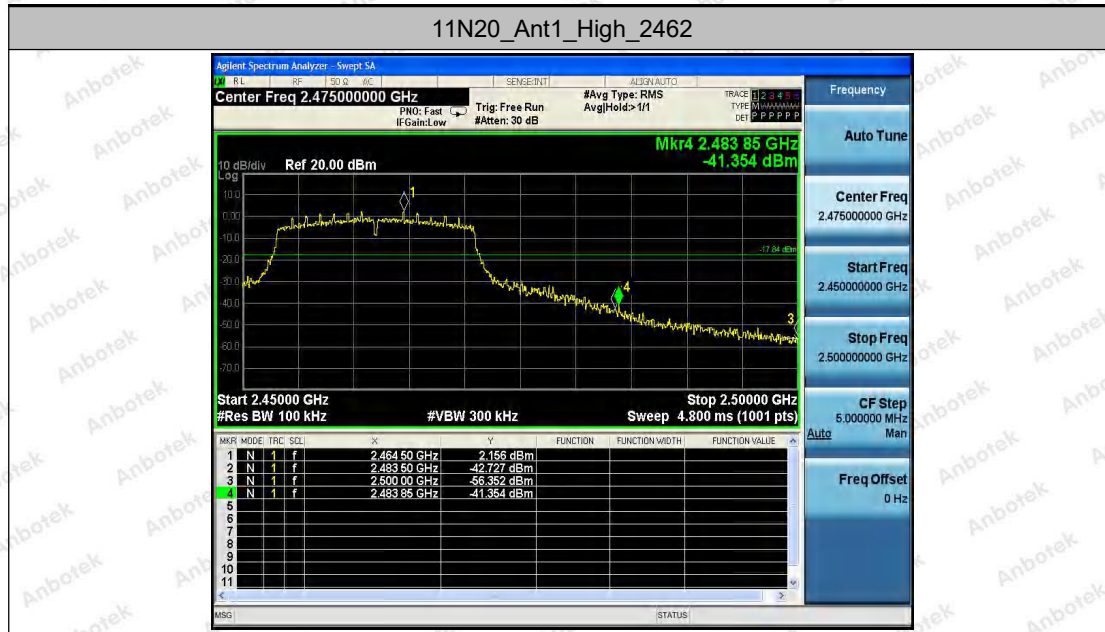


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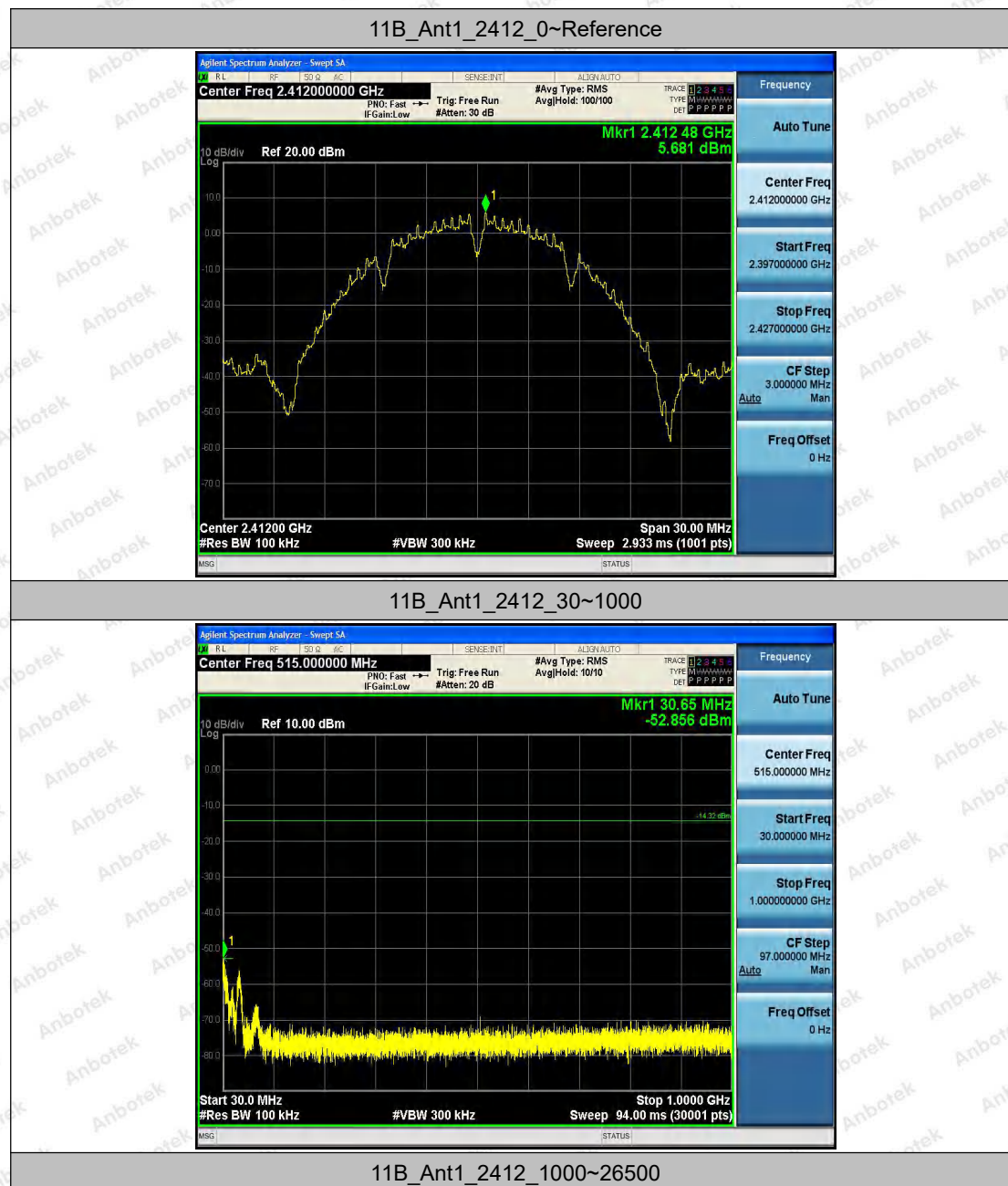
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.68	5.68	---	PASS
			30~1000	5.68	-52.86	≤-14.32	PASS
			1000~26500	5.68	-47.38	≤-14.32	PASS
		2437	Reference	5.70	5.70	---	PASS
			30~1000	5.70	-55.75	≤-14.3	PASS
			1000~26500	5.70	-40.12	≤-14.3	PASS
		2462	Reference	7.29	7.29	---	PASS
			30~1000	7.29	-55.06	≤-12.71	PASS
			1000~26500	7.29	-48.01	≤-12.71	PASS
11G	Ant1	2412	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-51.79	≤-18.39	PASS
			1000~26500	1.61	-55.88	≤-18.39	PASS
		2437	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-51.71	≤-18.27	PASS
			1000~26500	1.73	-55.35	≤-18.27	PASS
		2462	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-52.68	≤-17.51	PASS
			1000~26500	2.49	-45.25	≤-17.51	PASS
11N20	Ant1	2412	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-54.81	≤-19.48	PASS
			1000~26500	0.52	-55.35	≤-19.48	PASS
		2437	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-51.9	≤-18.97	PASS
			1000~26500	1.03	-55.58	≤-18.97	PASS
		2462	Reference	2.24	2.24	---	PASS
			30~1000	2.24	-53.79	≤-17.77	PASS
			1000~26500	2.24	-55.74	≤-17.77	PASS

Test Graphs

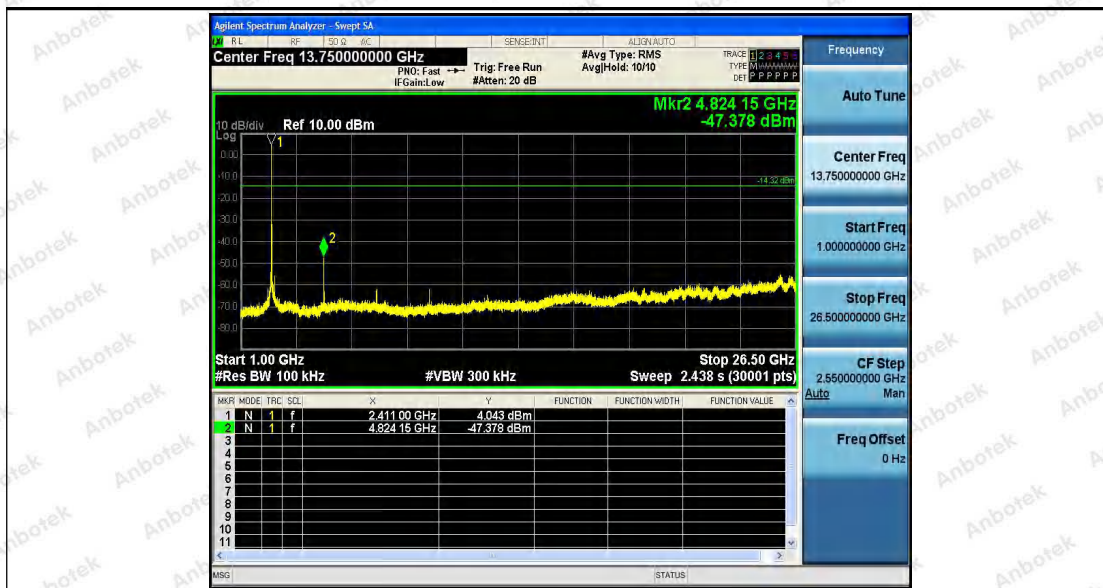


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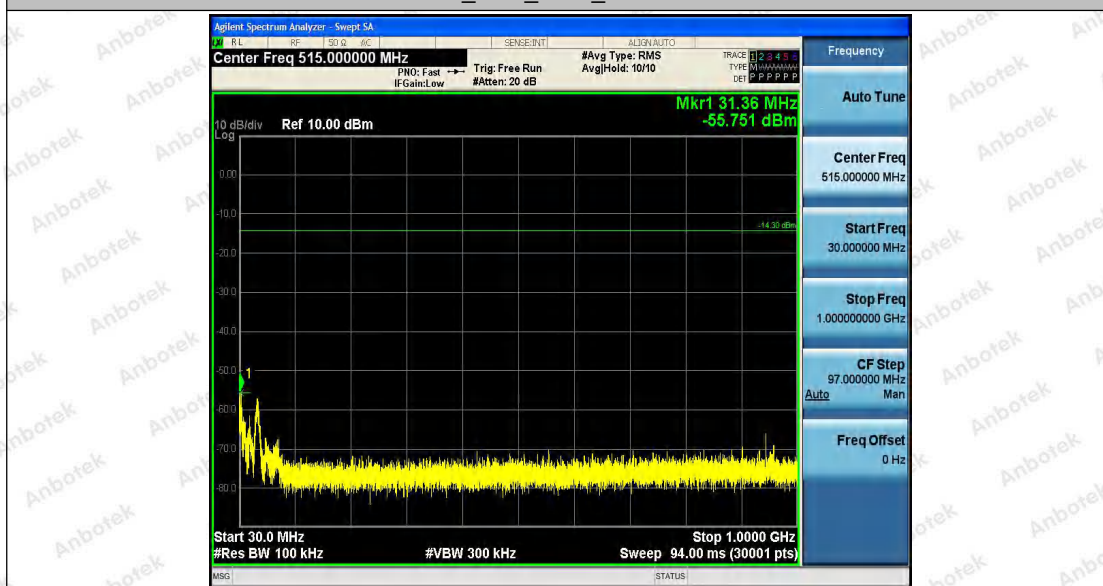
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



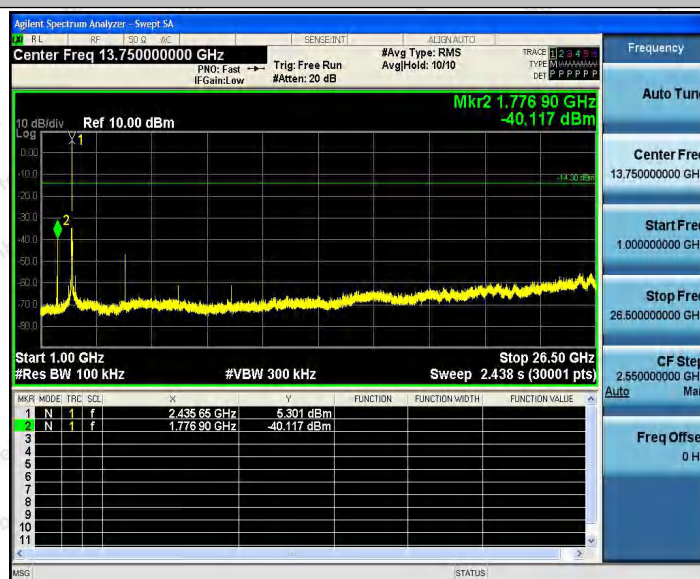
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



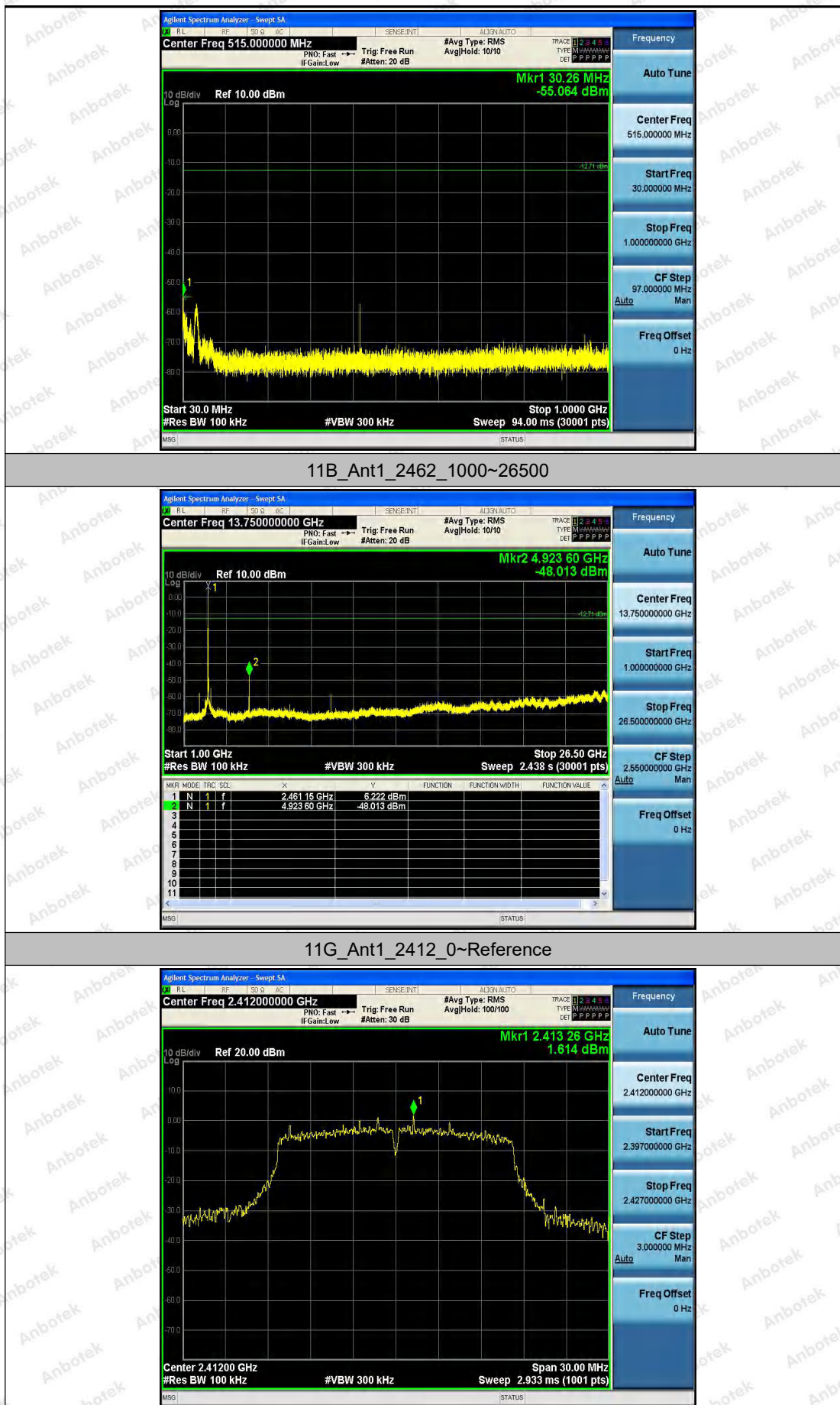
11B_Ant1_2462_30~1000

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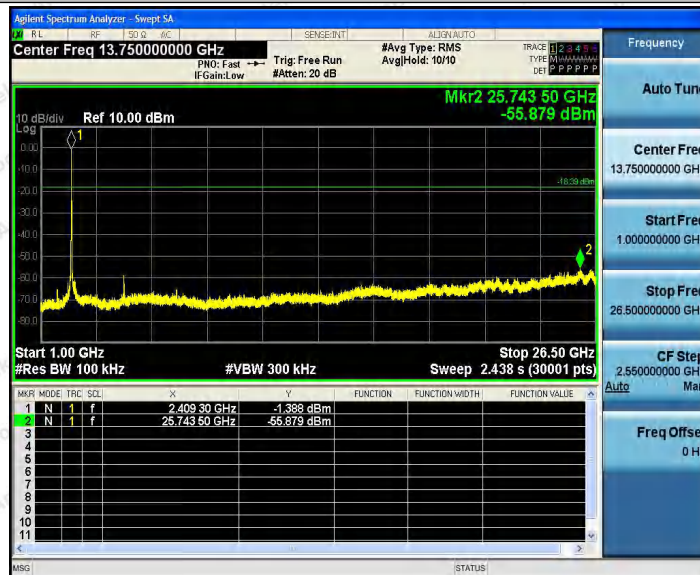
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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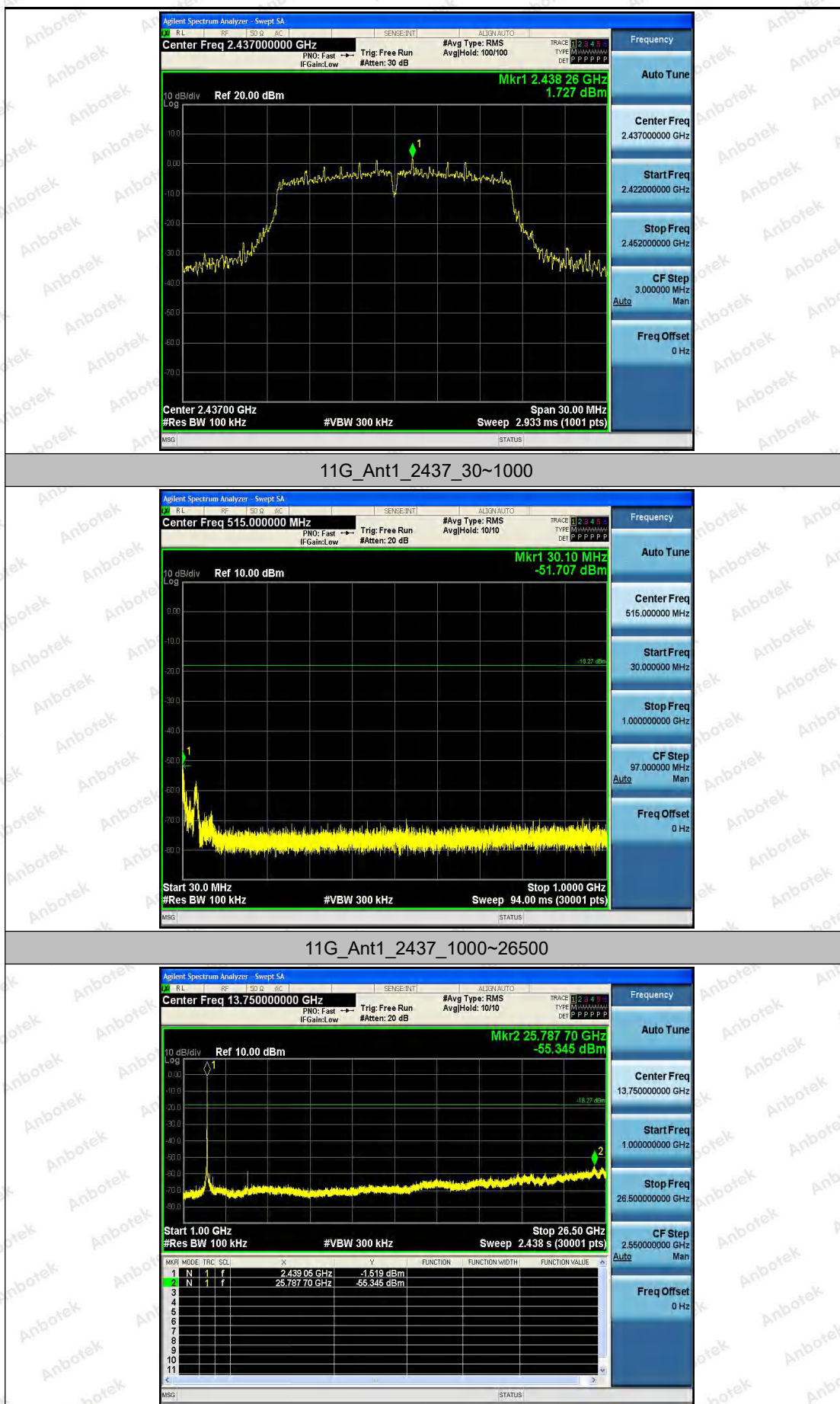
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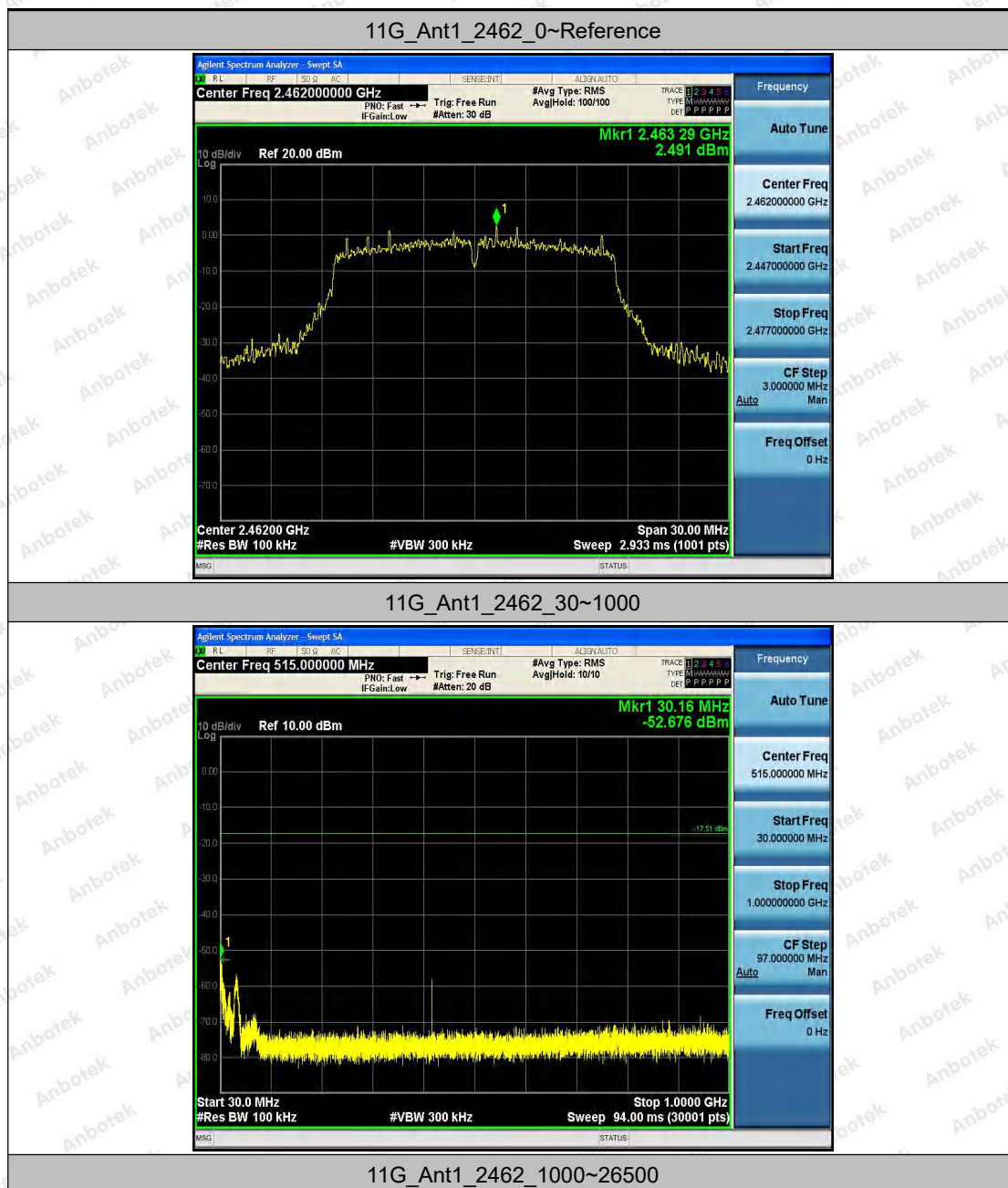
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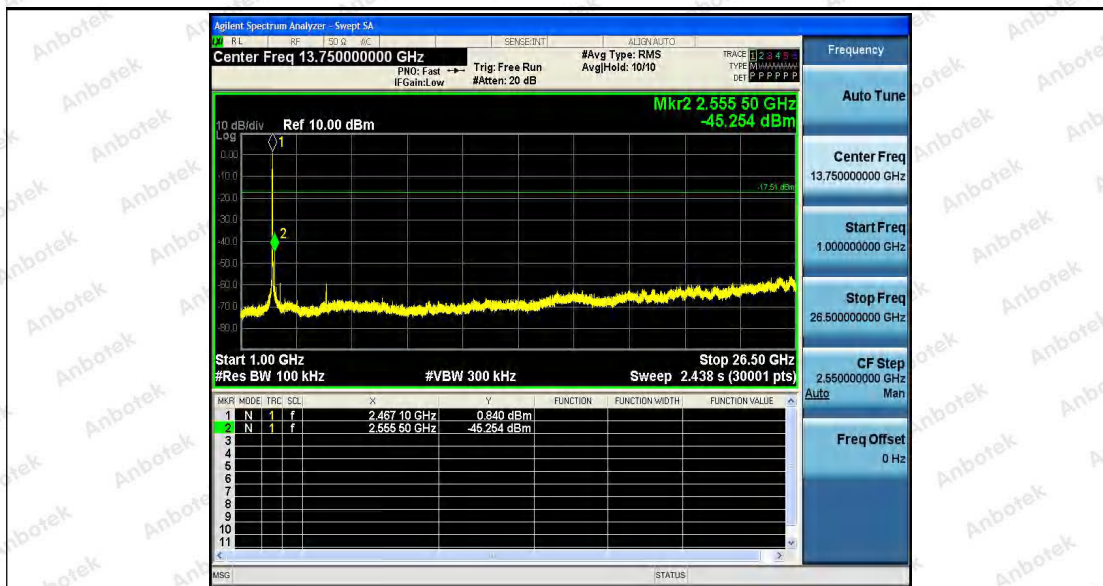


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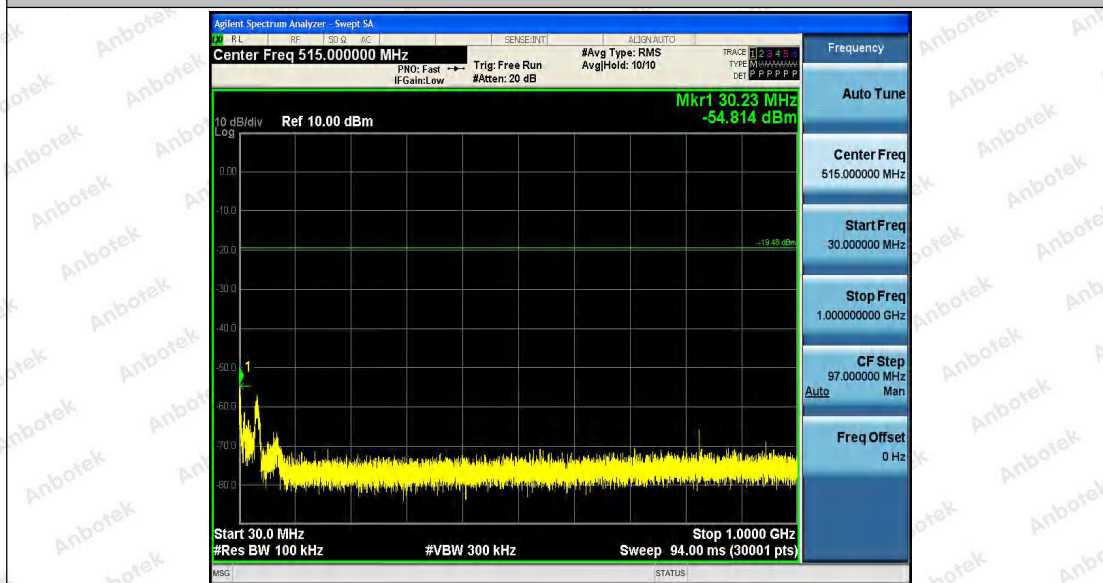




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11N20_Ant1_2412_30~1000



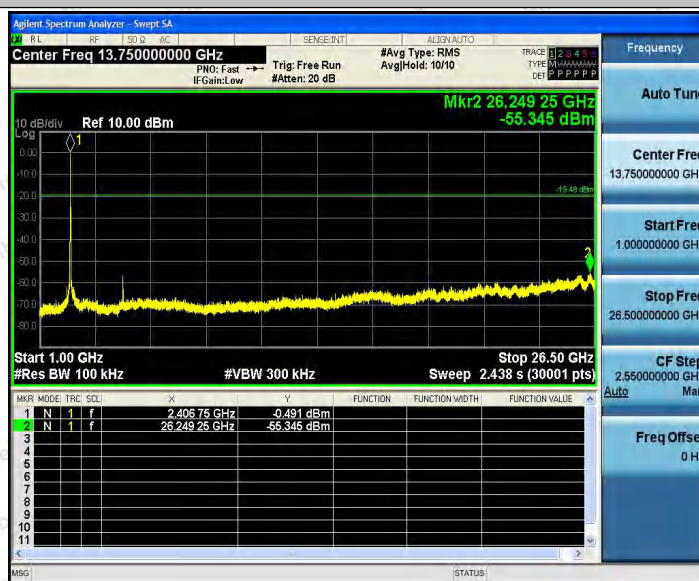
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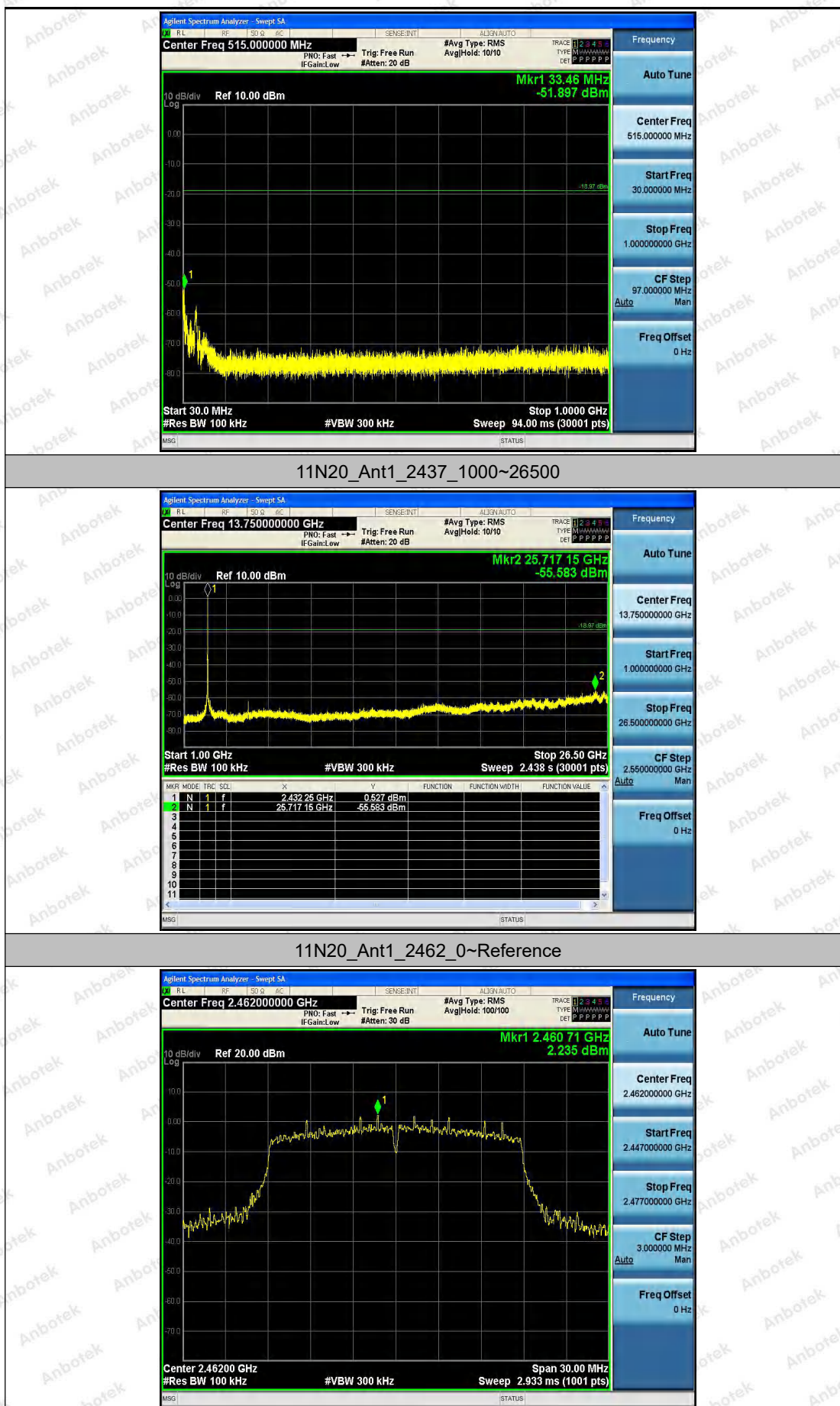
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11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000

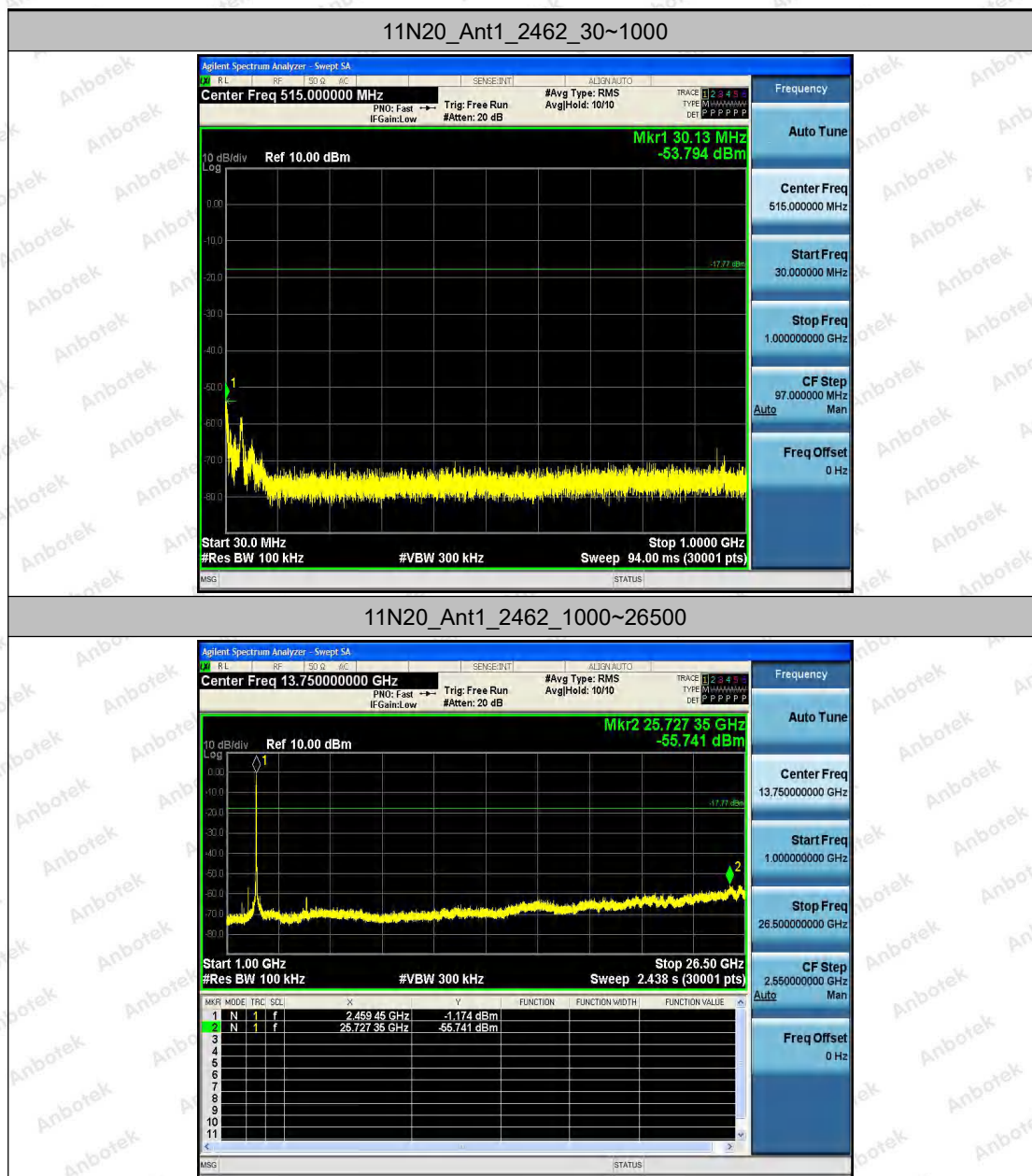


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Appendix G: Duty Cycle

Test Result

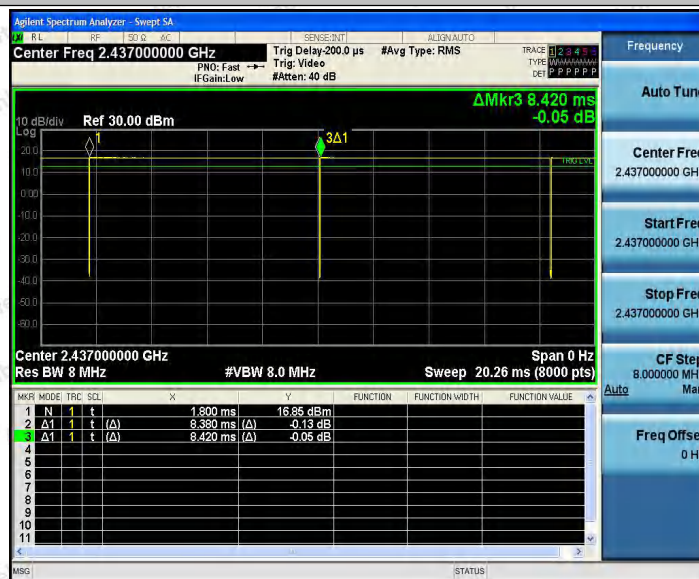
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.43	99.53	---	PASS
		2437	8.38	8.42	99.52	---	PASS
		2462	8.38	8.42	99.52	---	PASS
11G	Ant1	2412	1.39	1.44	96.53	---	PASS
		2437	1.39	1.44	96.53	---	PASS
		2462	1.39	1.43	97.20	---	PASS
11N20	Ant1	2412	1.28	1.33	96.24	---	PASS
		2437	1.29	1.34	96.27	---	PASS
		2462	1.28	1.33	96.24	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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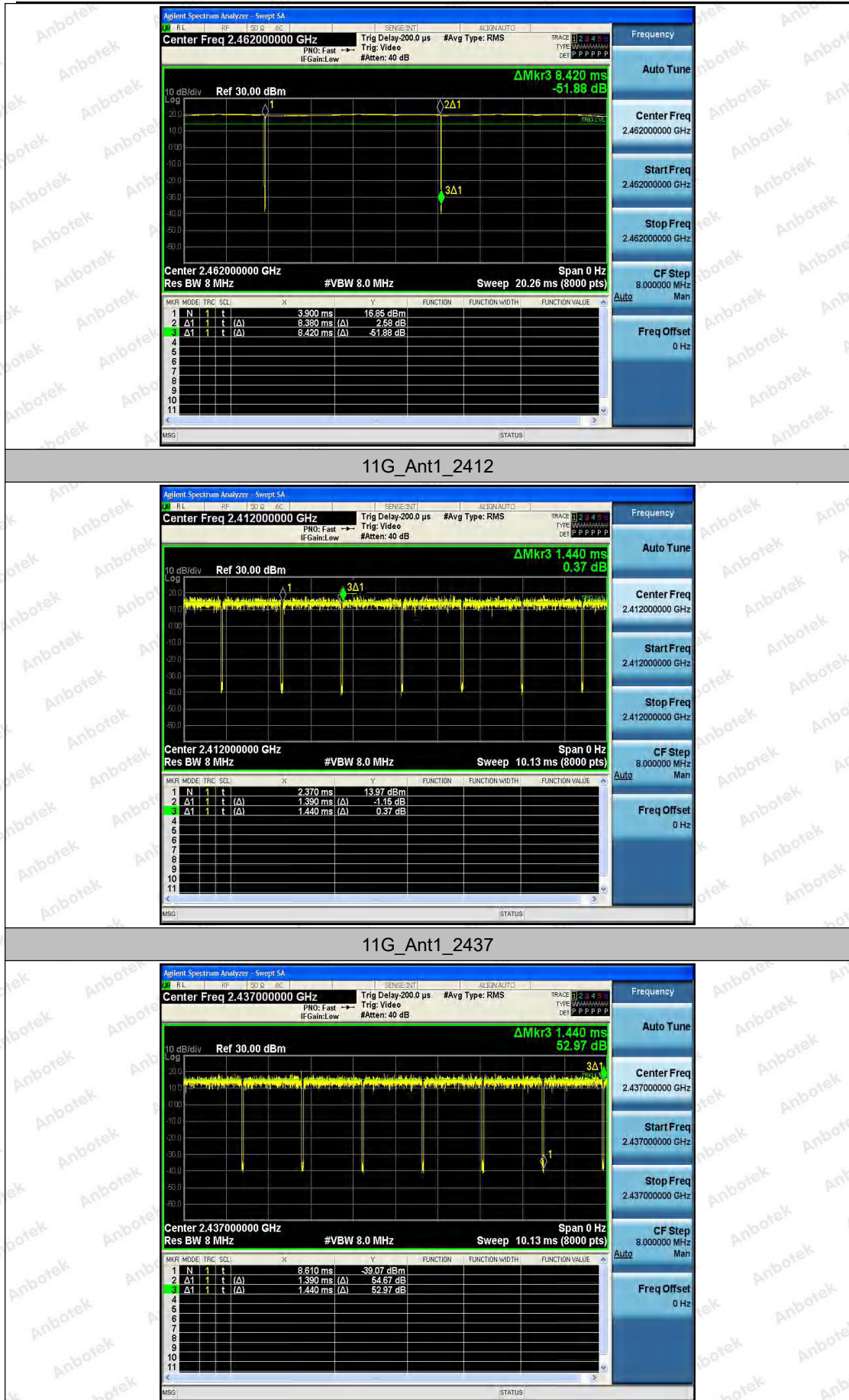
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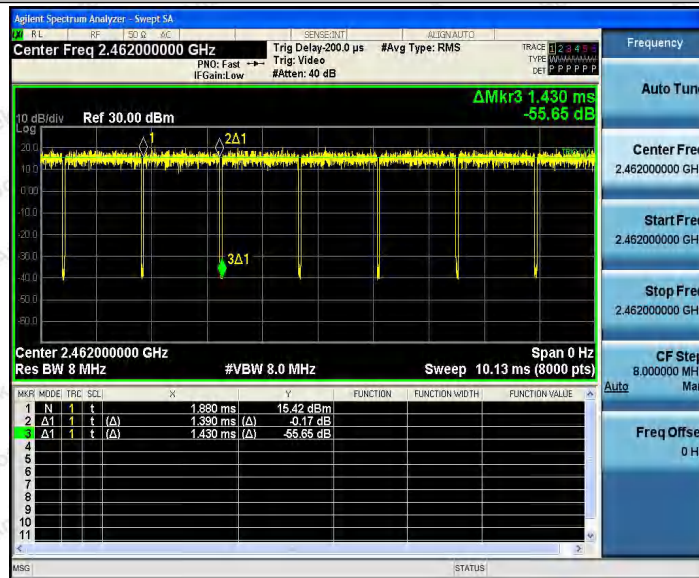
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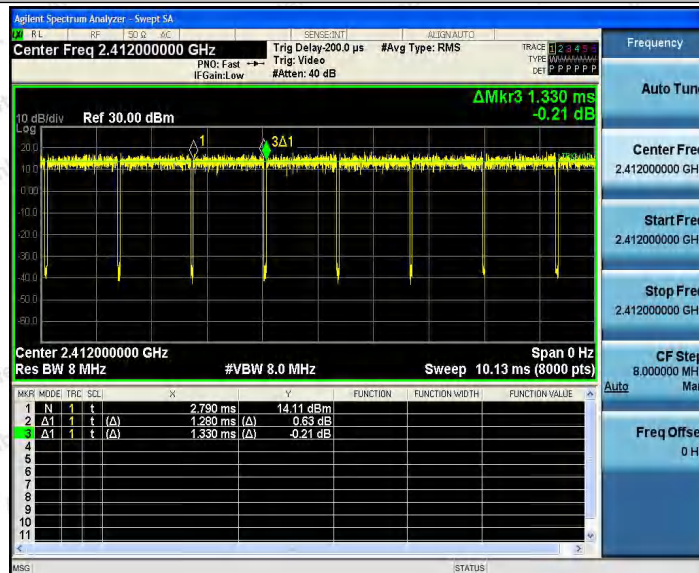
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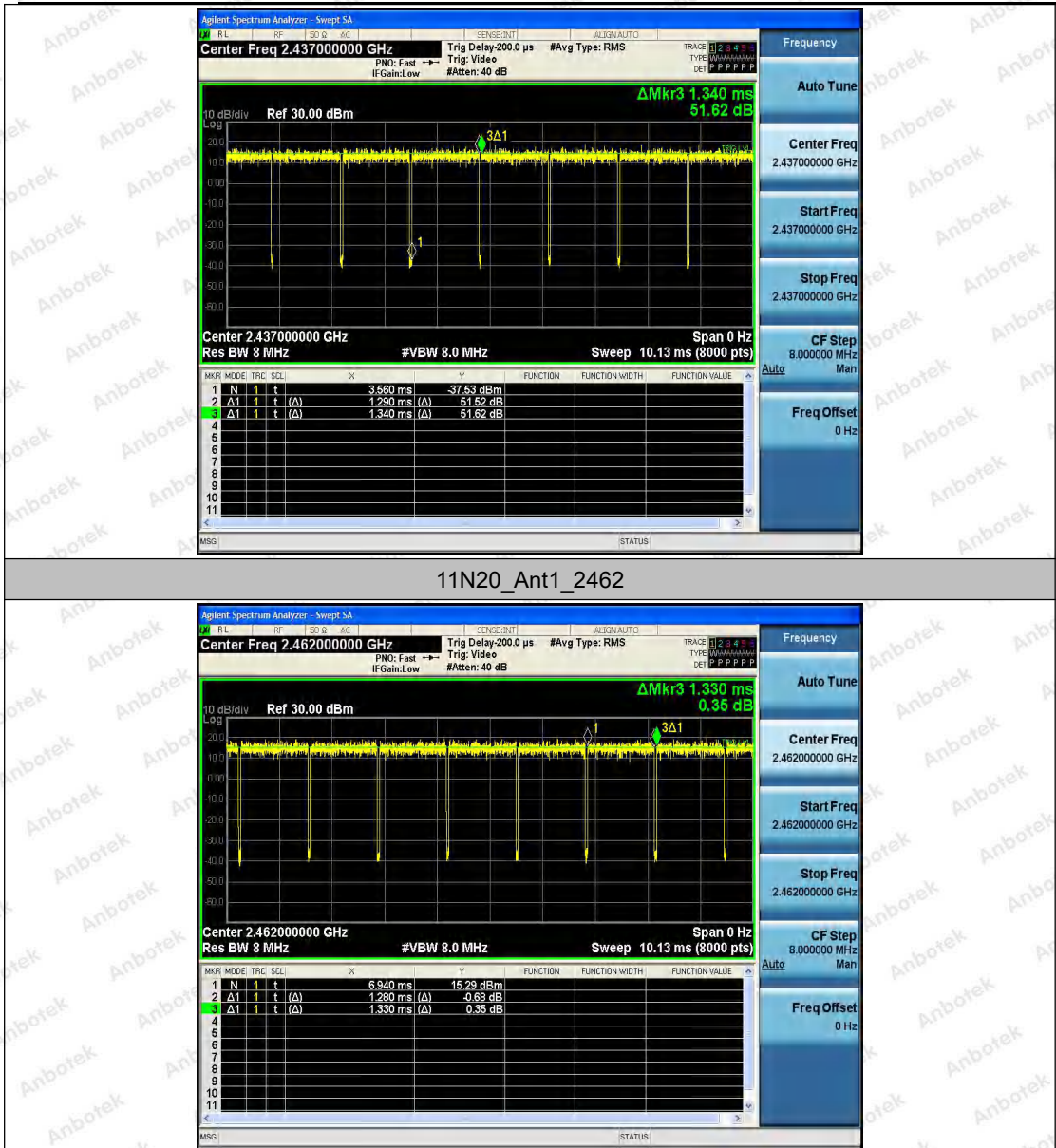
11G_Ant1_2462



11N20_Ant1_2412



11N20_Ant1_2437



---End---