

Appendix Test Data

Report No.:	18220WC20171501	Test Sample No.:	1-2-2
Start Test Date:	2022.7.30	Finish Test Date:	2022.8.18
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	46 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	9.030	2407.560	2416.590	≥0.5	PASS
		2437	9.060	2432.530	2441.590	≥0.5	PASS
		2462	9.030	2457.560	2466.590	≥0.5	PASS
11g	Ant1	2412	16.350	2403.900	2420.250	≥0.5	PASS
		2437	16.320	2428.900	2445.220	≥0.5	PASS
		2462	16.320	2453.900	2470.220	≥0.5	PASS
11n20	Ant1	2412	17.550	2403.300	2420.850	≥0.5	PASS
		2437	17.580	2428.270	2445.850	≥0.5	PASS
		2462	17.550	2453.300	2470.850	≥0.5	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

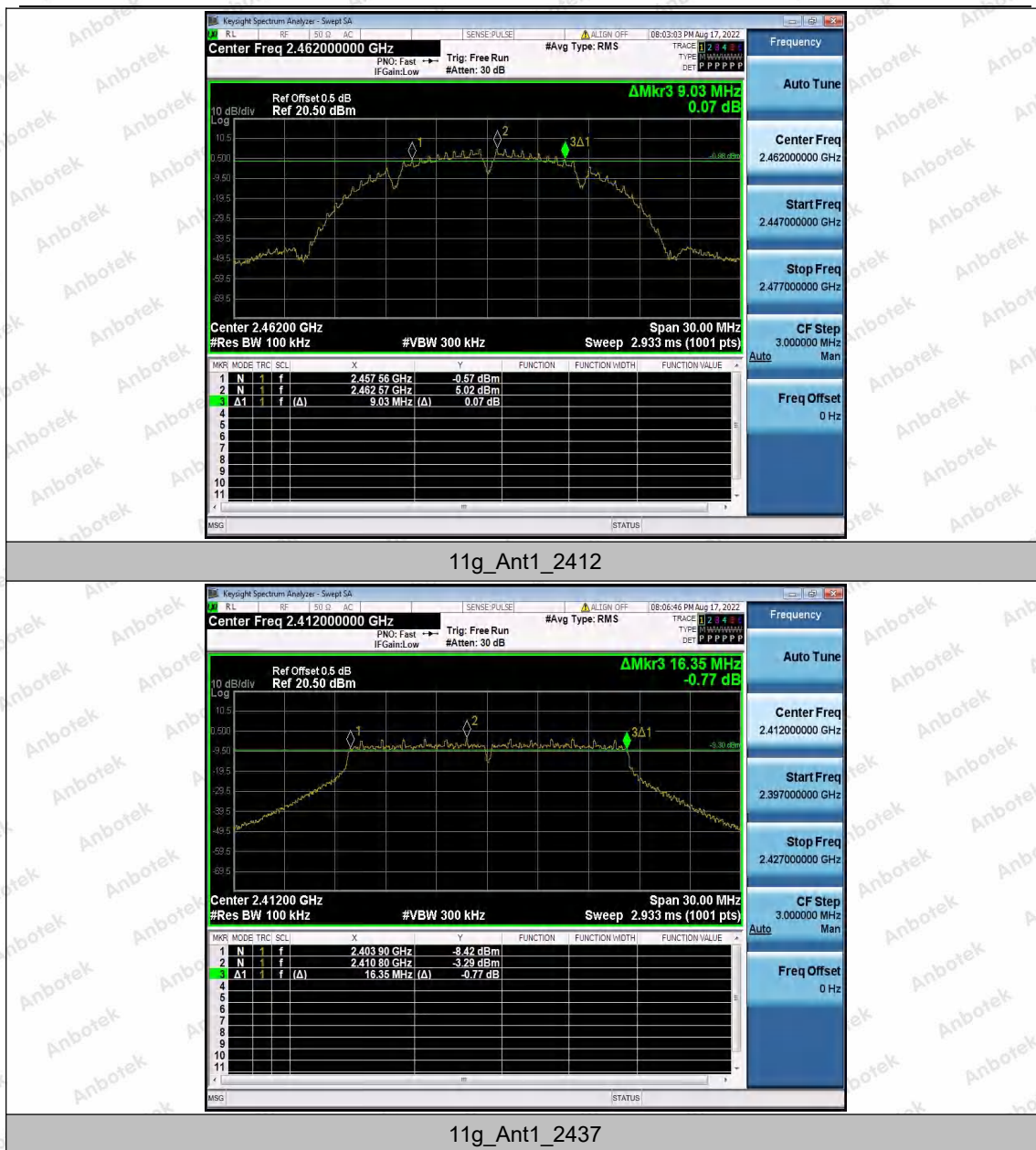
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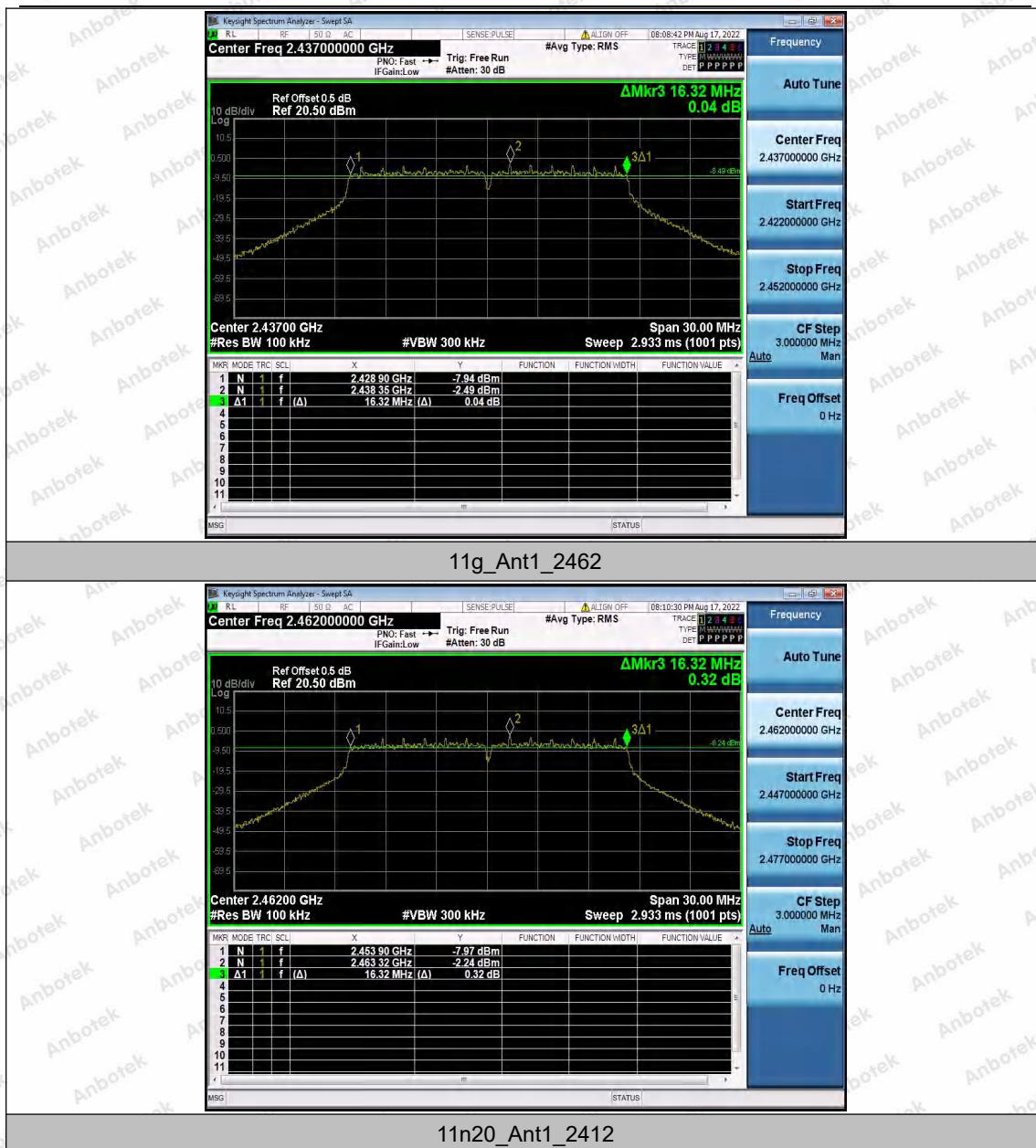
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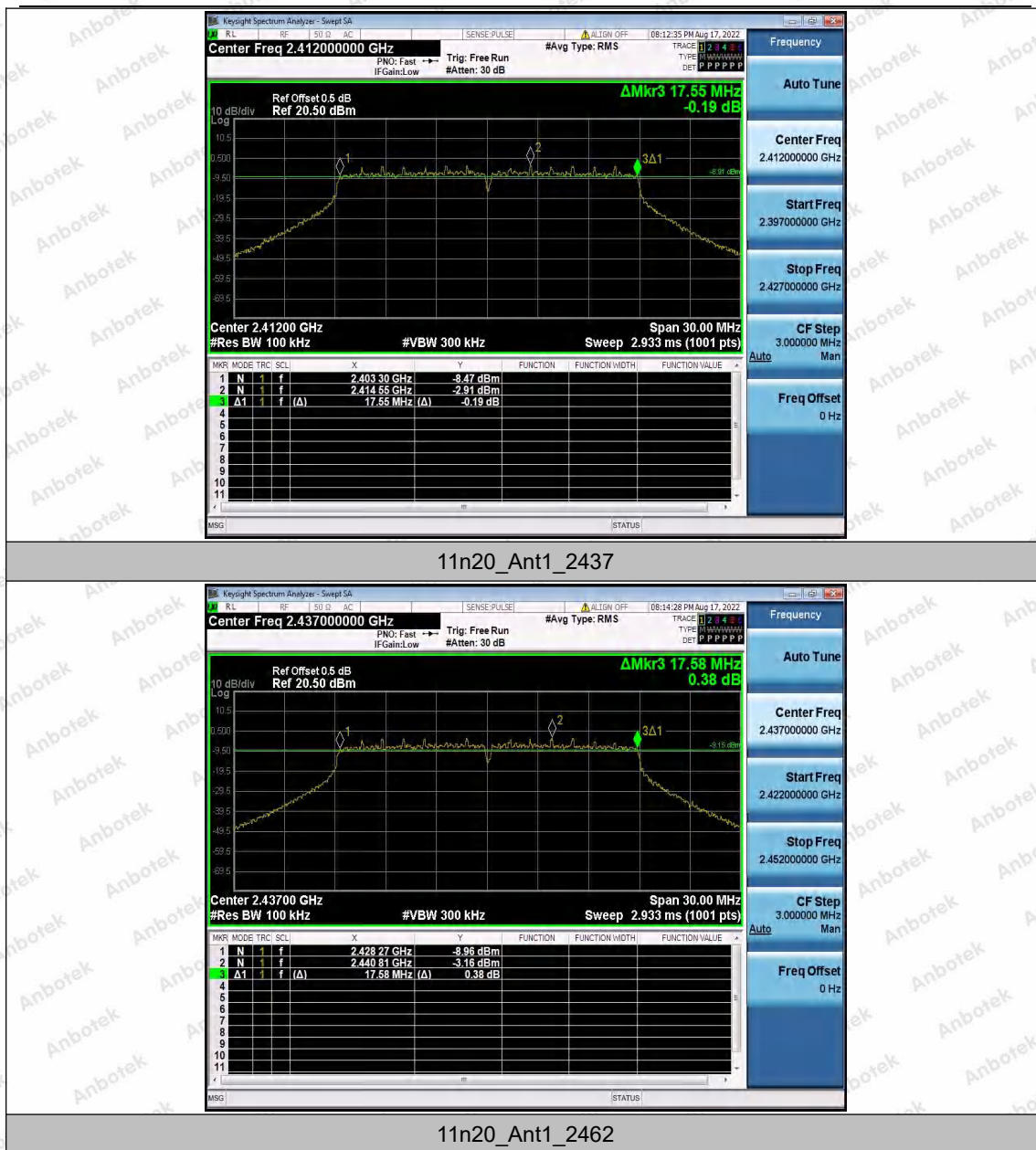
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	14.118	2405.0231	2419.1411	---	PASS
		2437	14.122	2430.0243	2444.1463	---	PASS
		2462	14.114	2455.0264	2469.1404	---	PASS
11g	Ant1	2412	17.050	2403.4760	2420.5260	---	PASS
		2437	16.974	2428.6306	2445.6046	---	PASS
		2462	16.874	2453.6248	2470.4988	---	PASS
11n20	Ant1	2412	18.063	2403.0804	2421.1434	---	PASS
		2437	17.991	2428.0752	2446.0662	---	PASS
		2462	18.101	2453.0870	2471.1880	---	PASS



Test Graphs



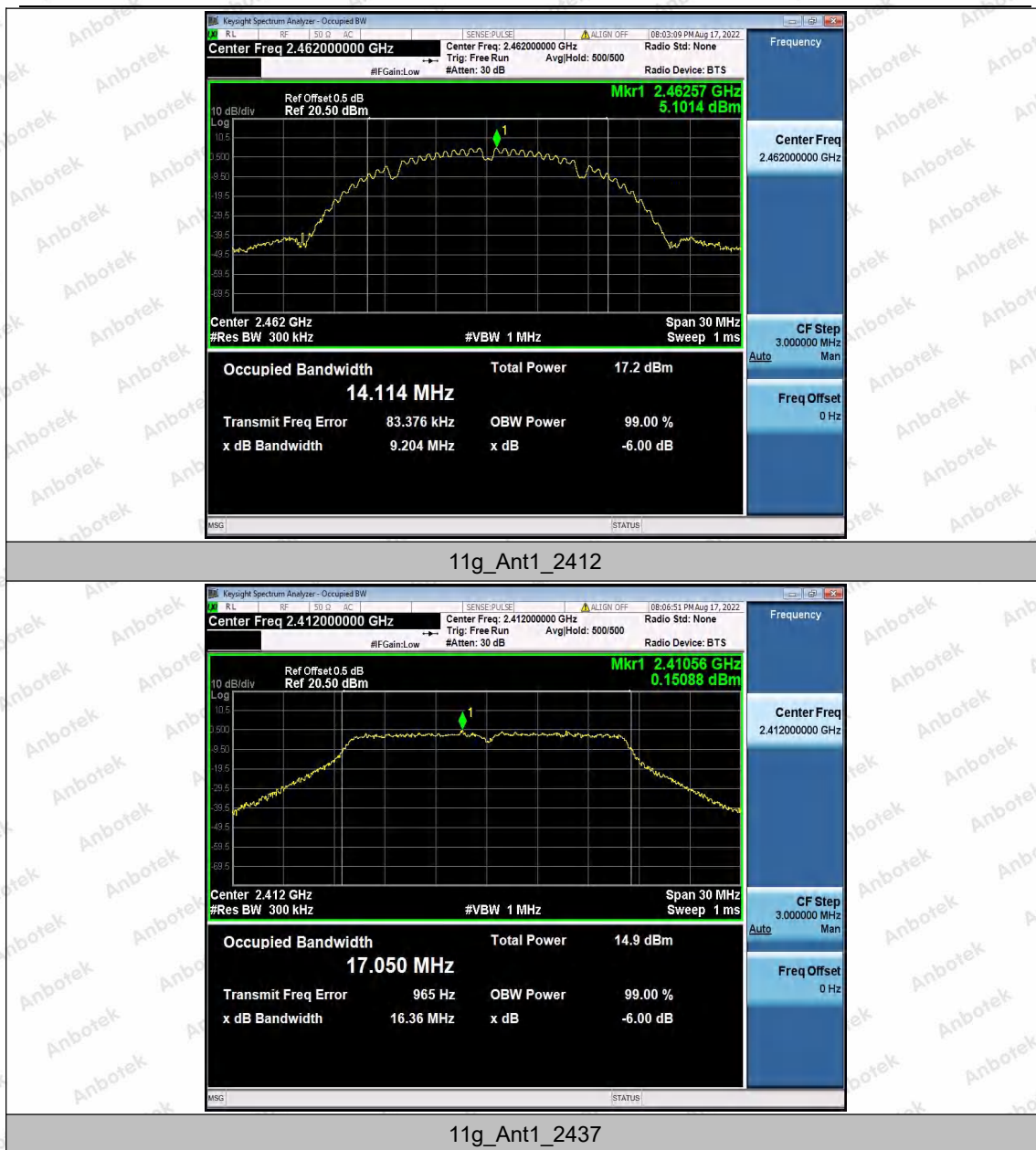
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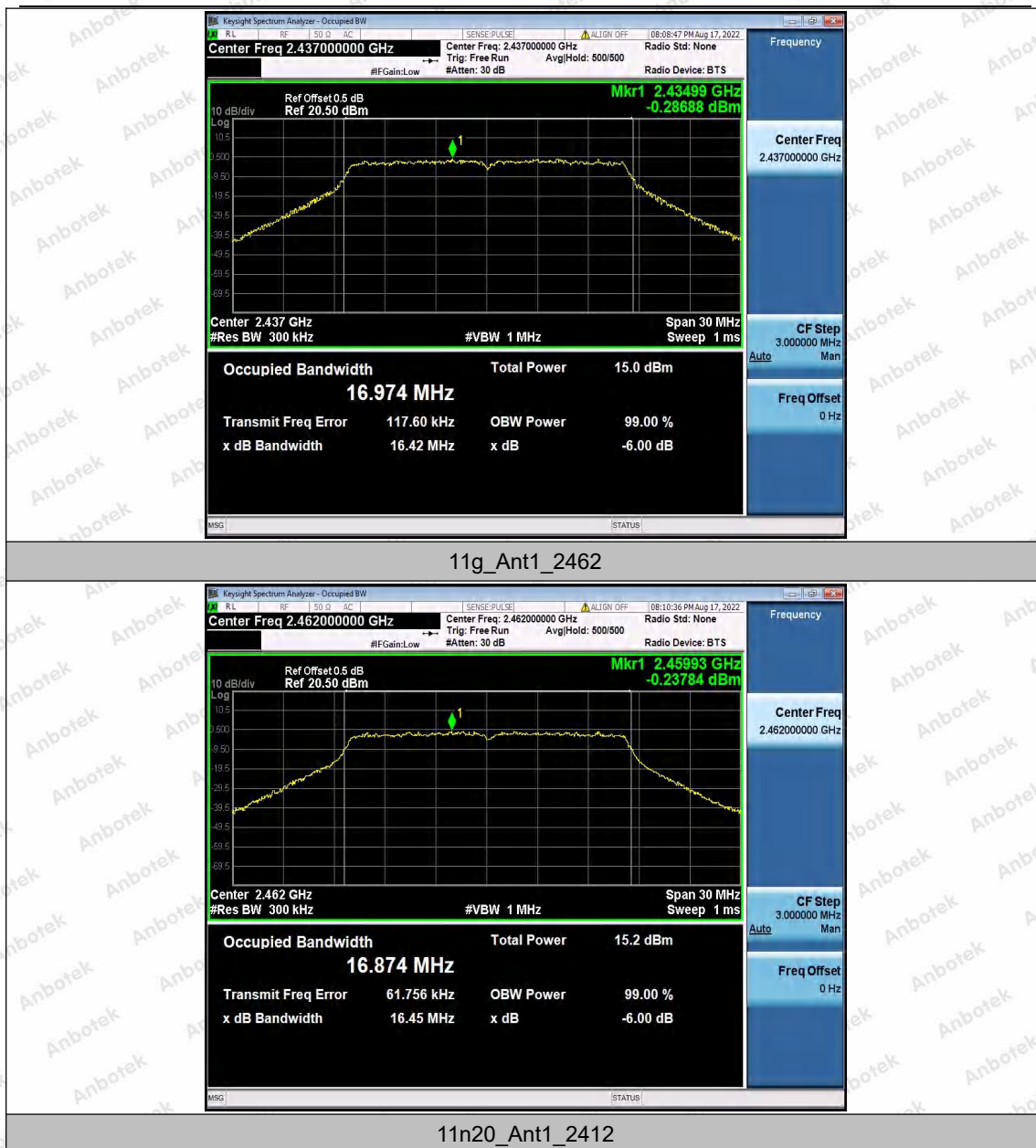
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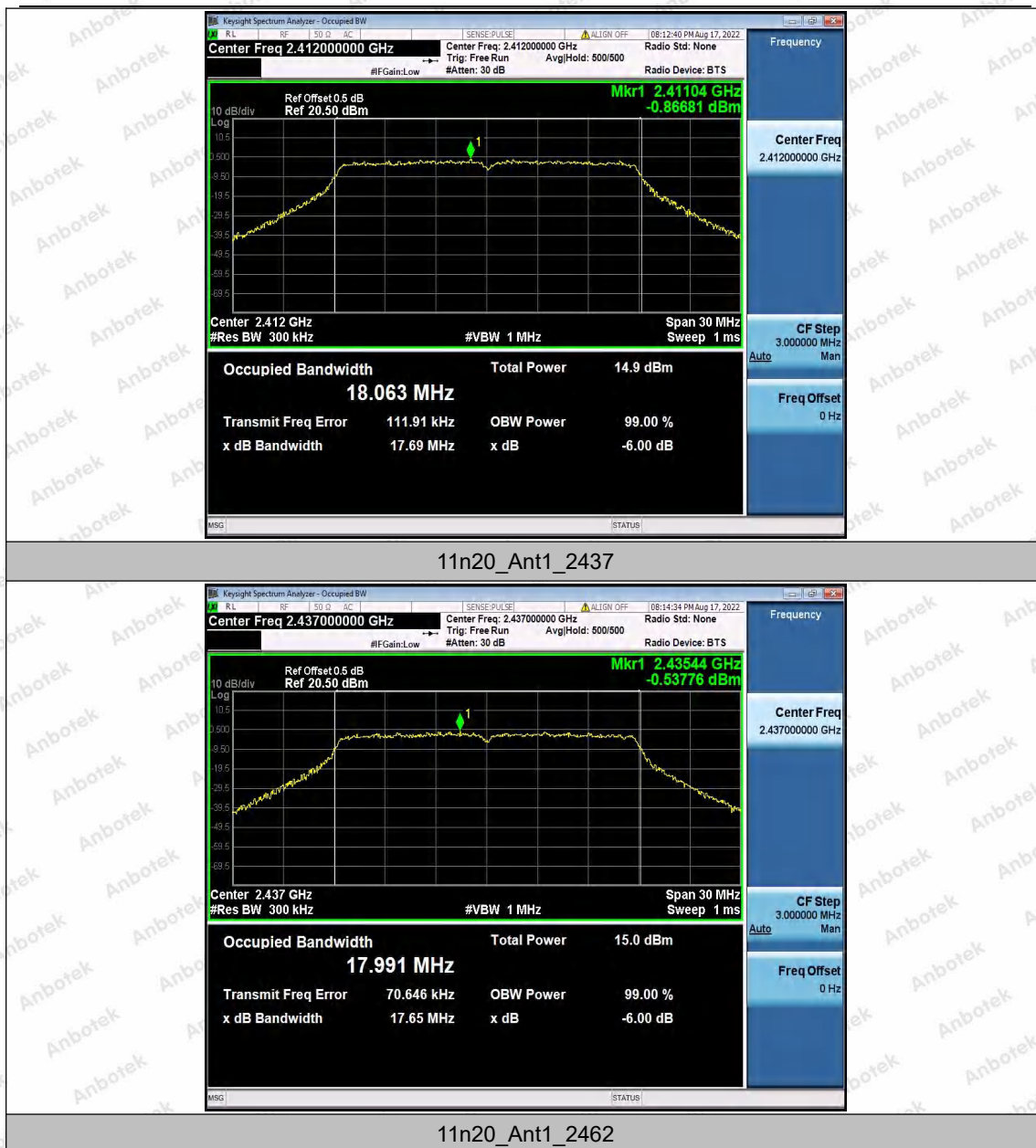
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	16.13	≤30	PASS
		2437	16.24	≤30	PASS
		2462	16.42	≤30	PASS
11g	Ant1	2412	15.89	≤30	PASS
		2437	16.00	≤30	PASS
		2462	16.21	≤30	PASS
11n20	Ant1	2412	15.88	≤30	PASS
		2437	15.93	≤30	PASS
		2462	16.19	≤30	PASS



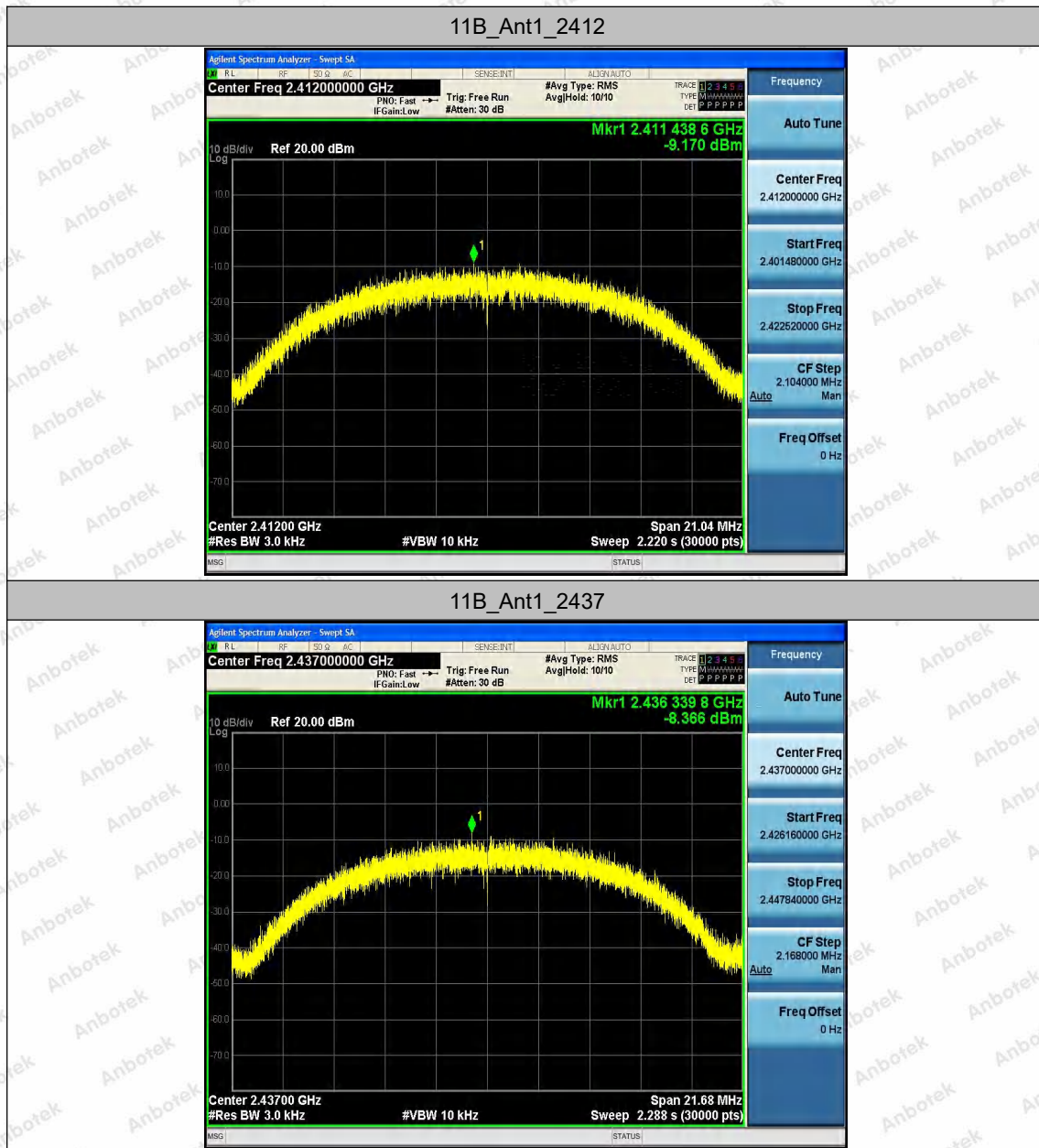
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-9.17	≤8	PASS
		2437	-8.37	≤8	PASS
		2462	-8.88	≤8	PASS
11g	Ant1	2412	-14.35	≤8	PASS
		2437	-14.38	≤8	PASS
		2462	-13.62	≤8	PASS
11n20	Ant1	2412	-14.87	≤8	PASS
		2437	-14.44	≤8	PASS
		2462	-13.29	≤8	PASS



Test Graphs



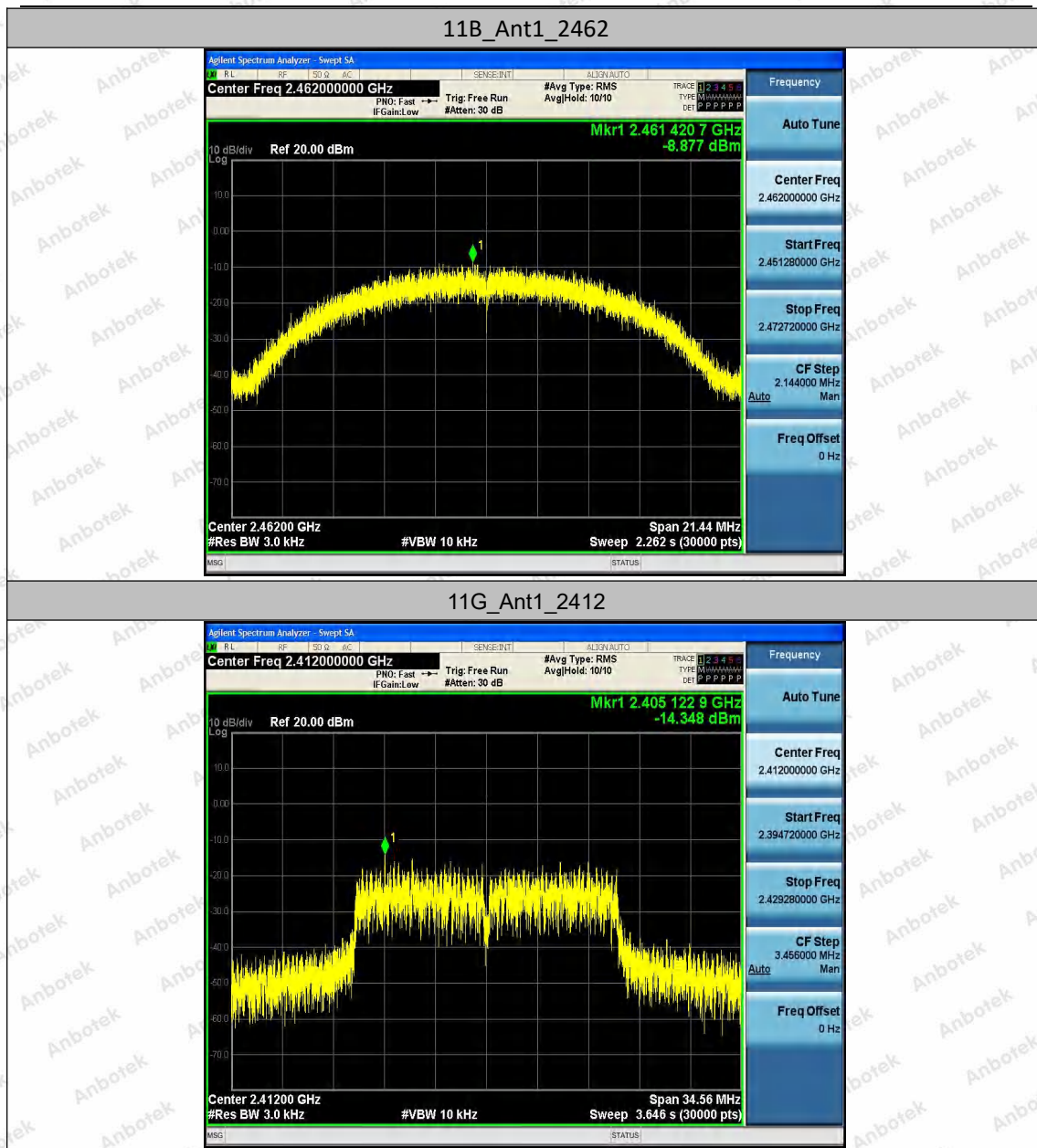
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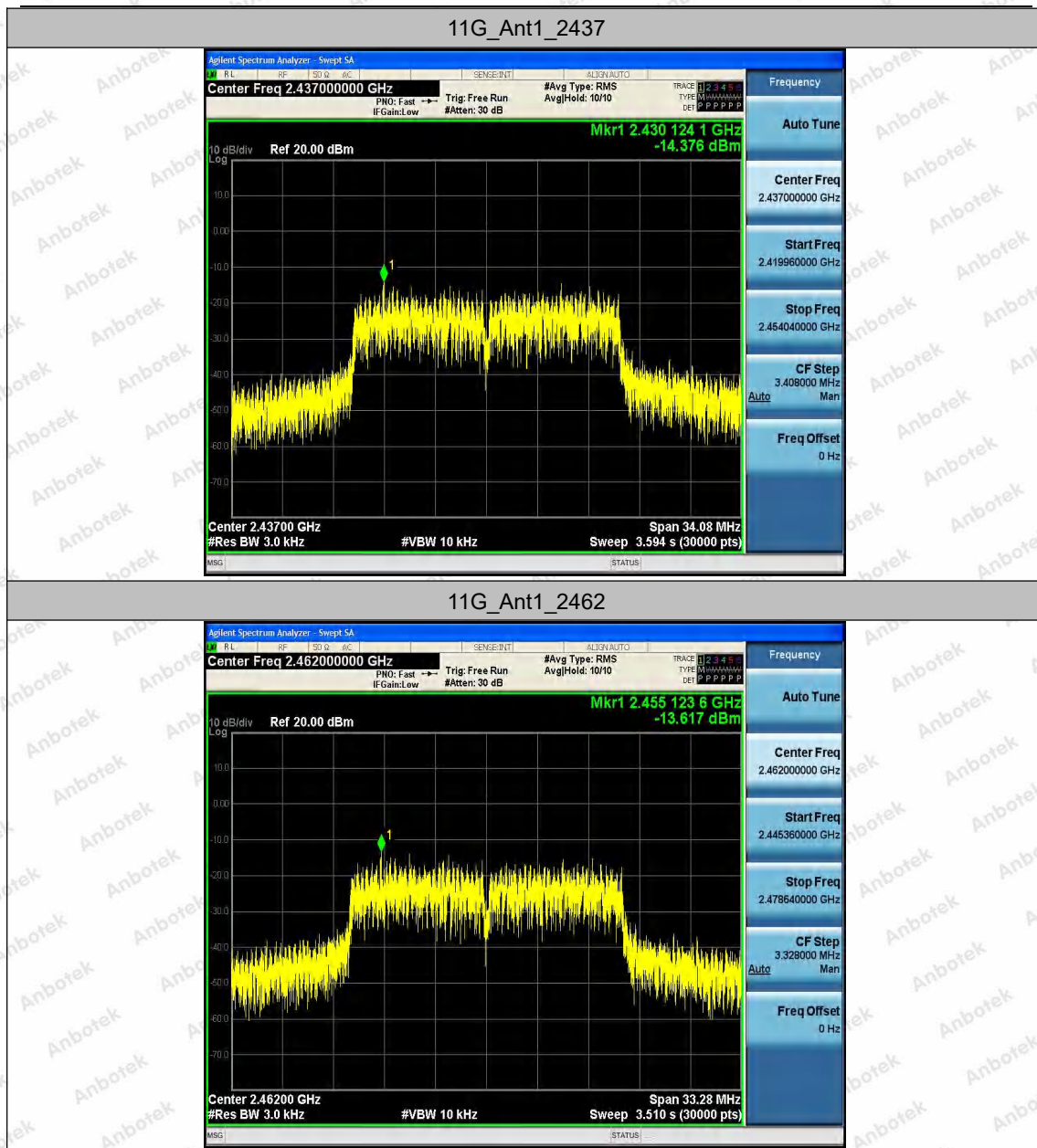
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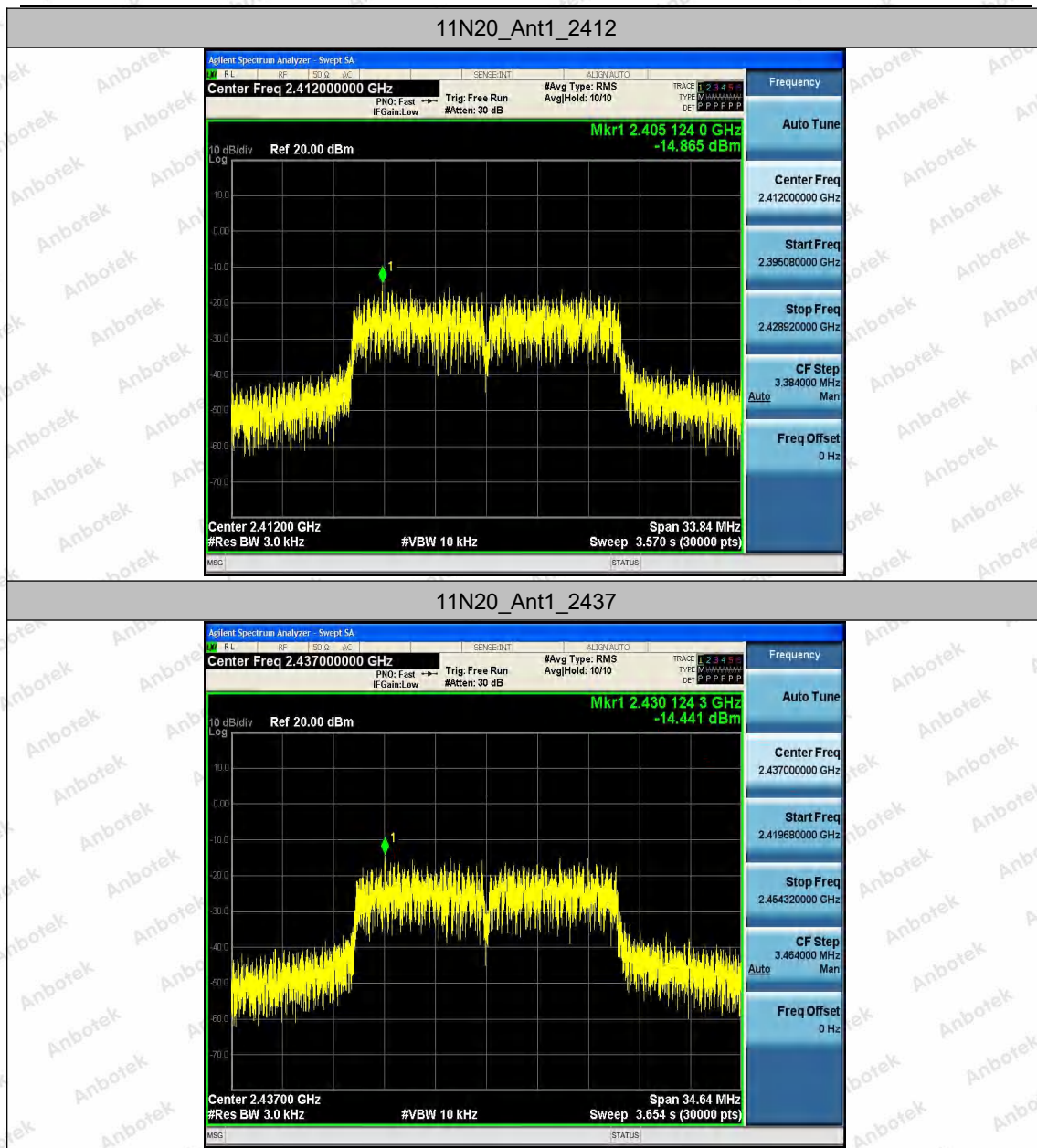
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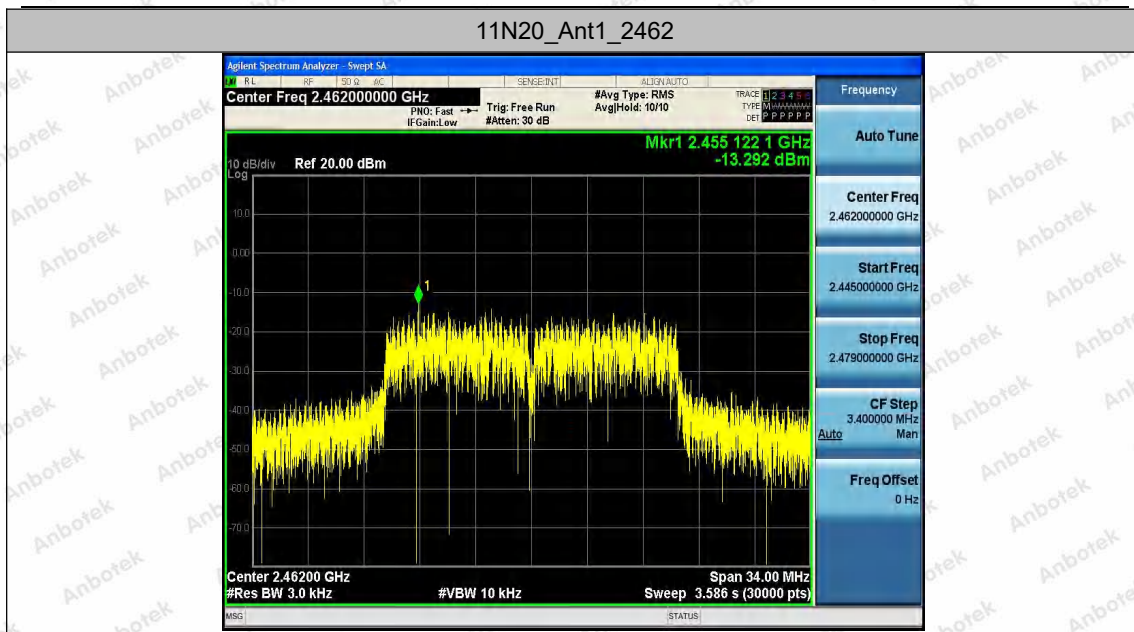
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant1	Low	2412	4.37	-44.63	≤-15.63	PASS
		High	2462	4.90	-53.74	≤-15.1	PASS
11g	Ant1	Low	2412	-3.43	-38.04	≤-23.43	PASS
		High	2462	-2.95	-54.34	≤-22.95	PASS
11n20	Ant1	Low	2412	-3.24	-36.33	≤-23.24	PASS
		High	2462	-2.66	-54.86	≤-22.66	PASS



Test Graphs

11b_Ant1_Low_2412



11b_Ant1_High_2462



11g_Ant1_Low_2412

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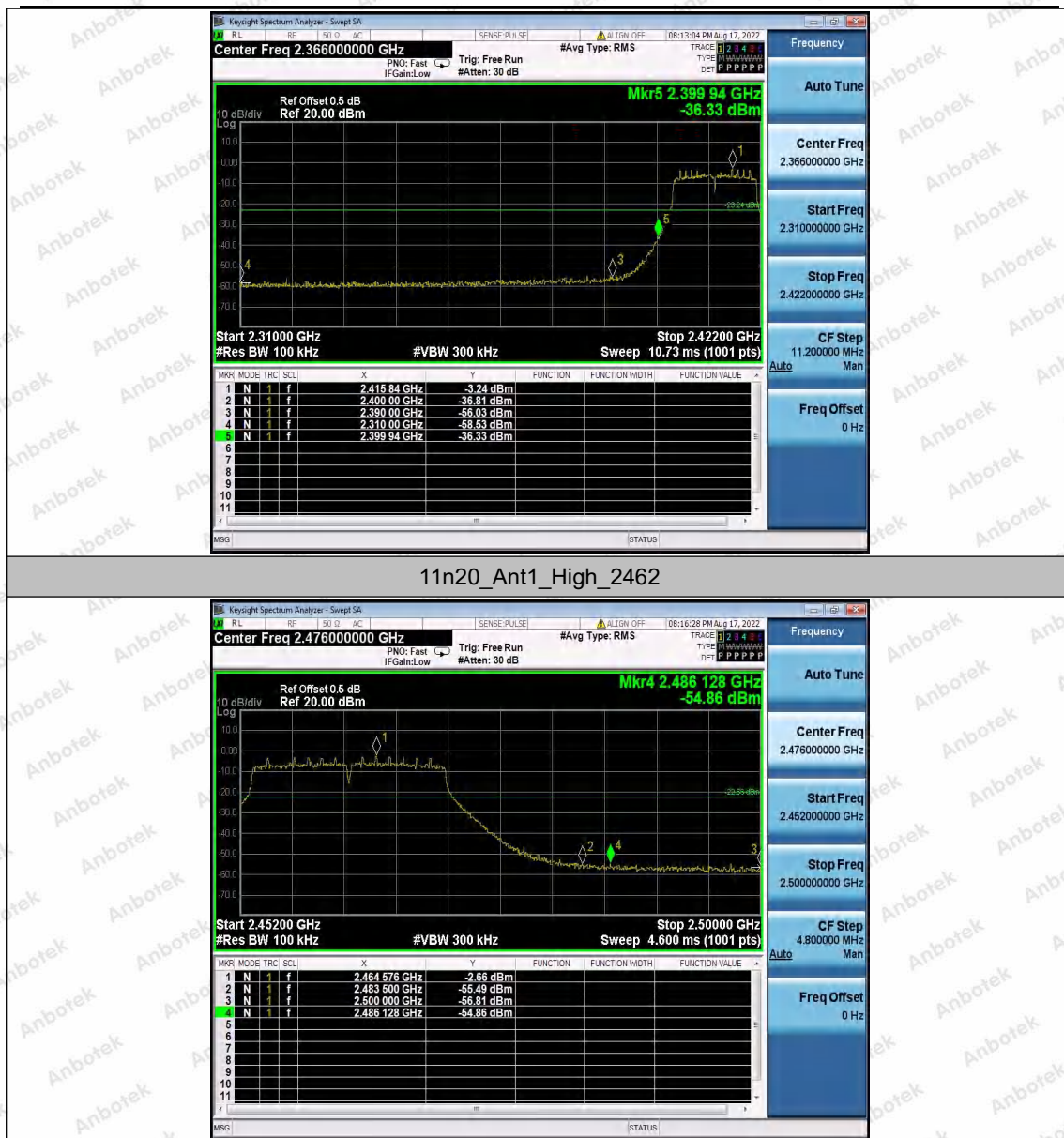
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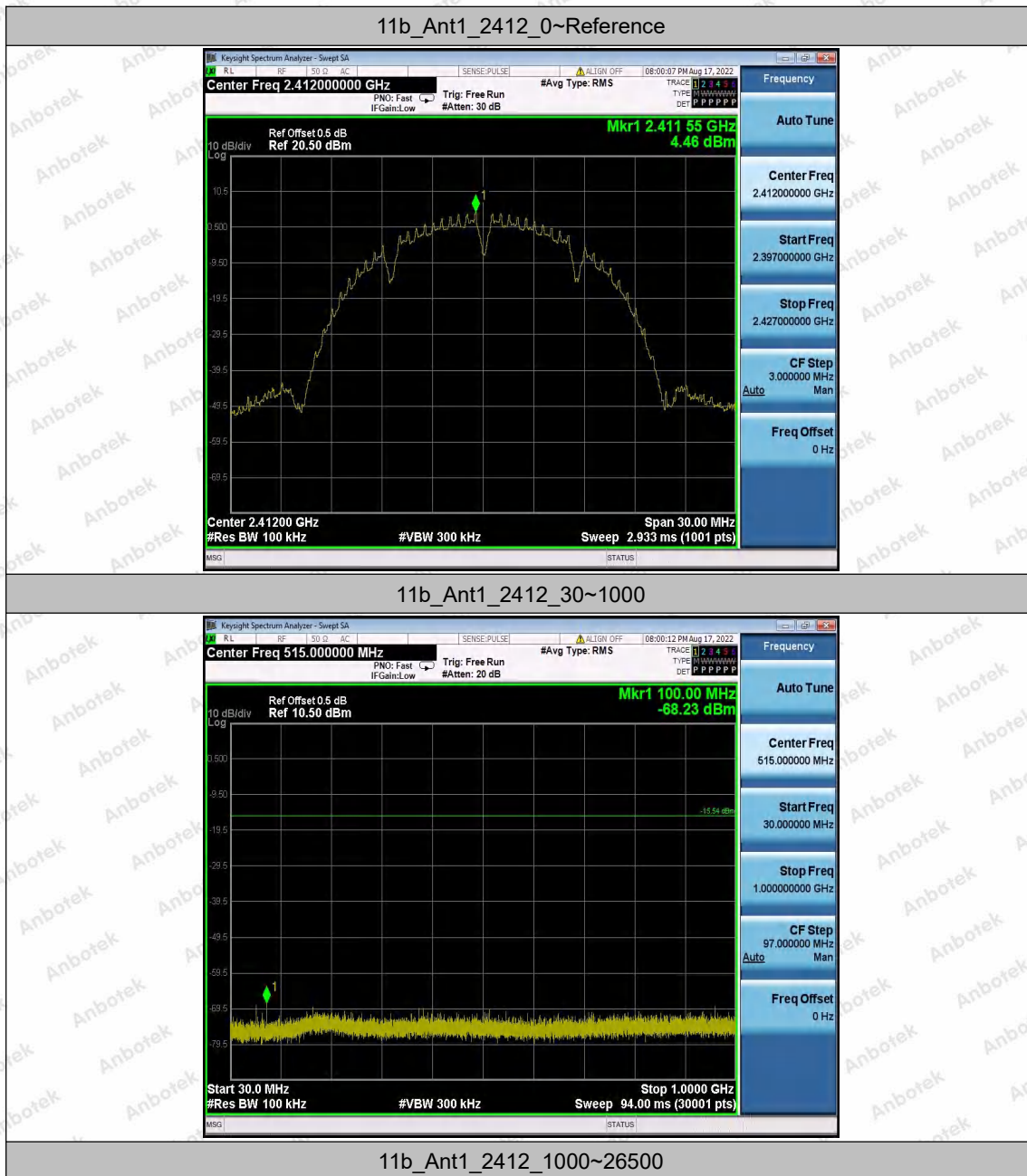
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	2412	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-68.23	≤-15.54	PASS
			1000~26500	4.46	-53.93	≤-15.54	PASS
		2437	Reference	4.71	4.71	---	PASS
			30~1000	4.71	-68.54	≤-15.29	PASS
			1000~26500	4.71	-54.12	≤-15.29	PASS
		2462	Reference	4.58	4.58	---	PASS
			30~1000	4.58	-67.94	≤-15.42	PASS
			1000~26500	4.58	-53.25	≤-15.42	PASS
11g	Ant1	2412	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-66.04	≤-22.65	PASS
			1000~26500	-2.65	-54.13	≤-22.65	PASS
		2437	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-66.45	≤-22.63	PASS
			1000~26500	-2.63	-53.53	≤-22.63	PASS
		2462	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-66.06	≤-22.34	PASS
			1000~26500	-2.34	-53.92	≤-22.34	PASS
11n20	Ant1	2412	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-66.17	≤-22.62	PASS
			1000~26500	-2.62	-54.14	≤-22.62	PASS
		2437	Reference	-2.96	-2.96	---	PASS
			30~1000	-2.96	-66.7	≤-22.96	PASS
			1000~26500	-2.96	-54.11	≤-22.96	PASS
		2462	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-65.2	≤-22.32	PASS
			1000~26500	-2.32	-53.68	≤-22.32	PASS



Test Graphs



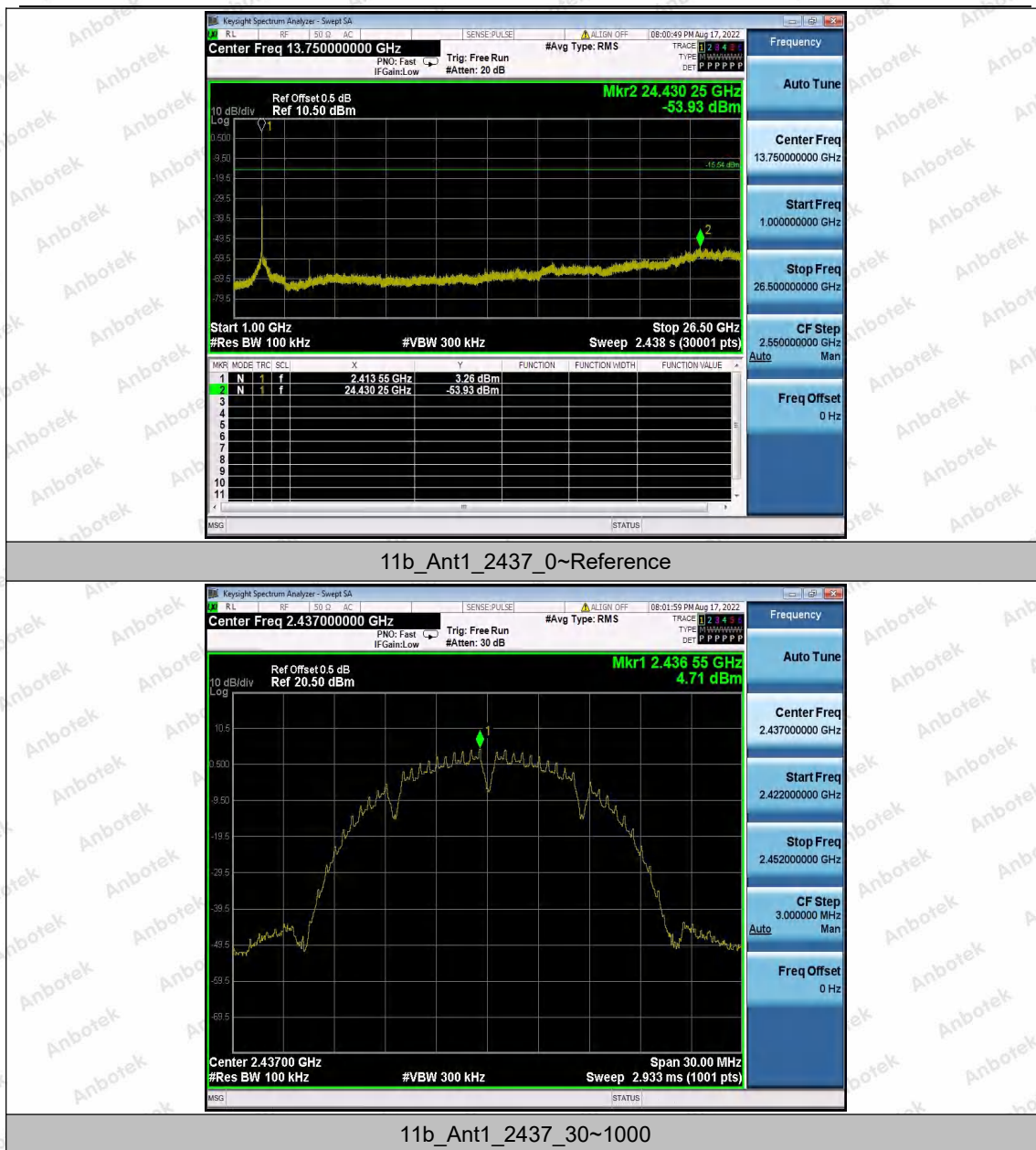
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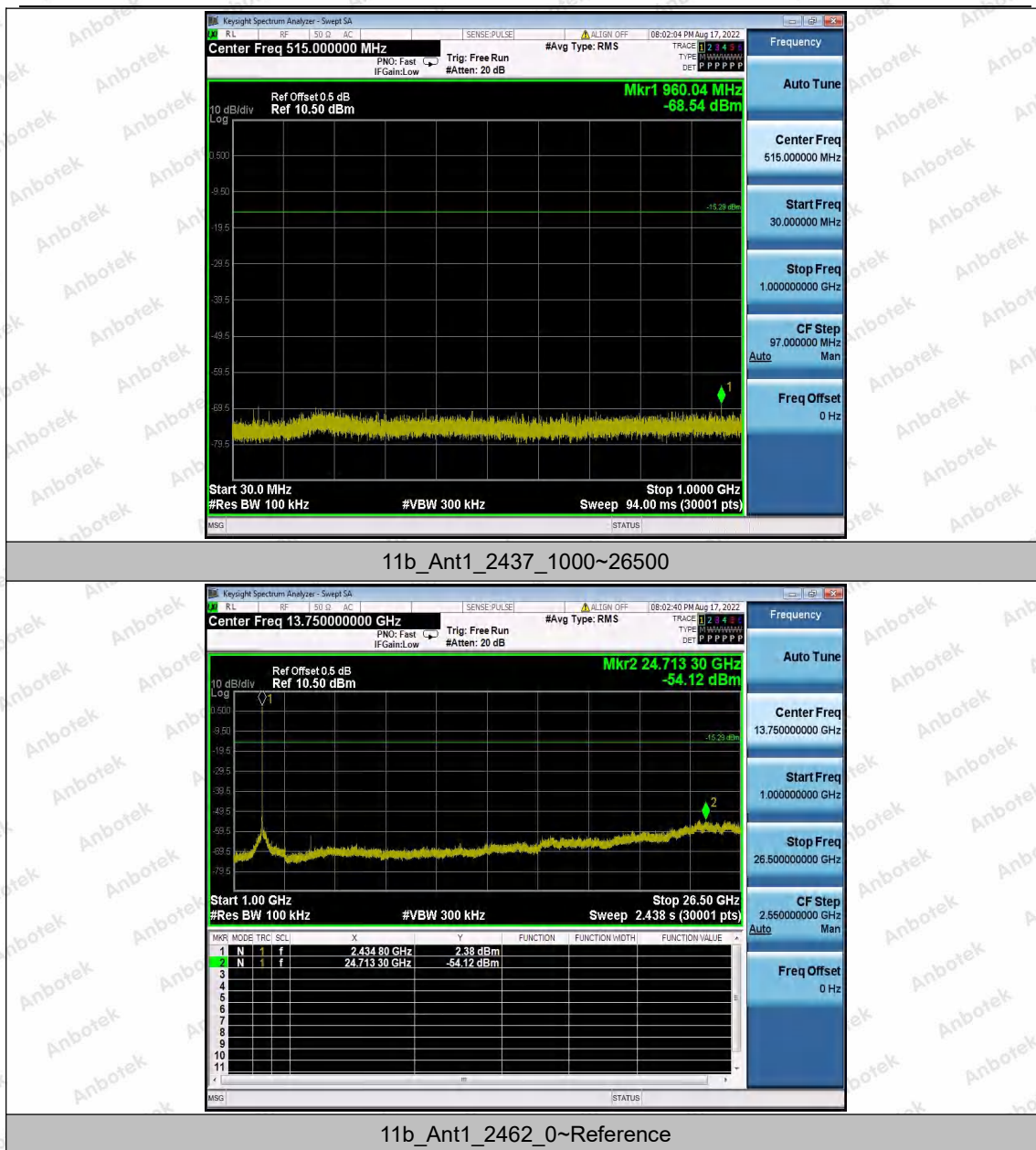
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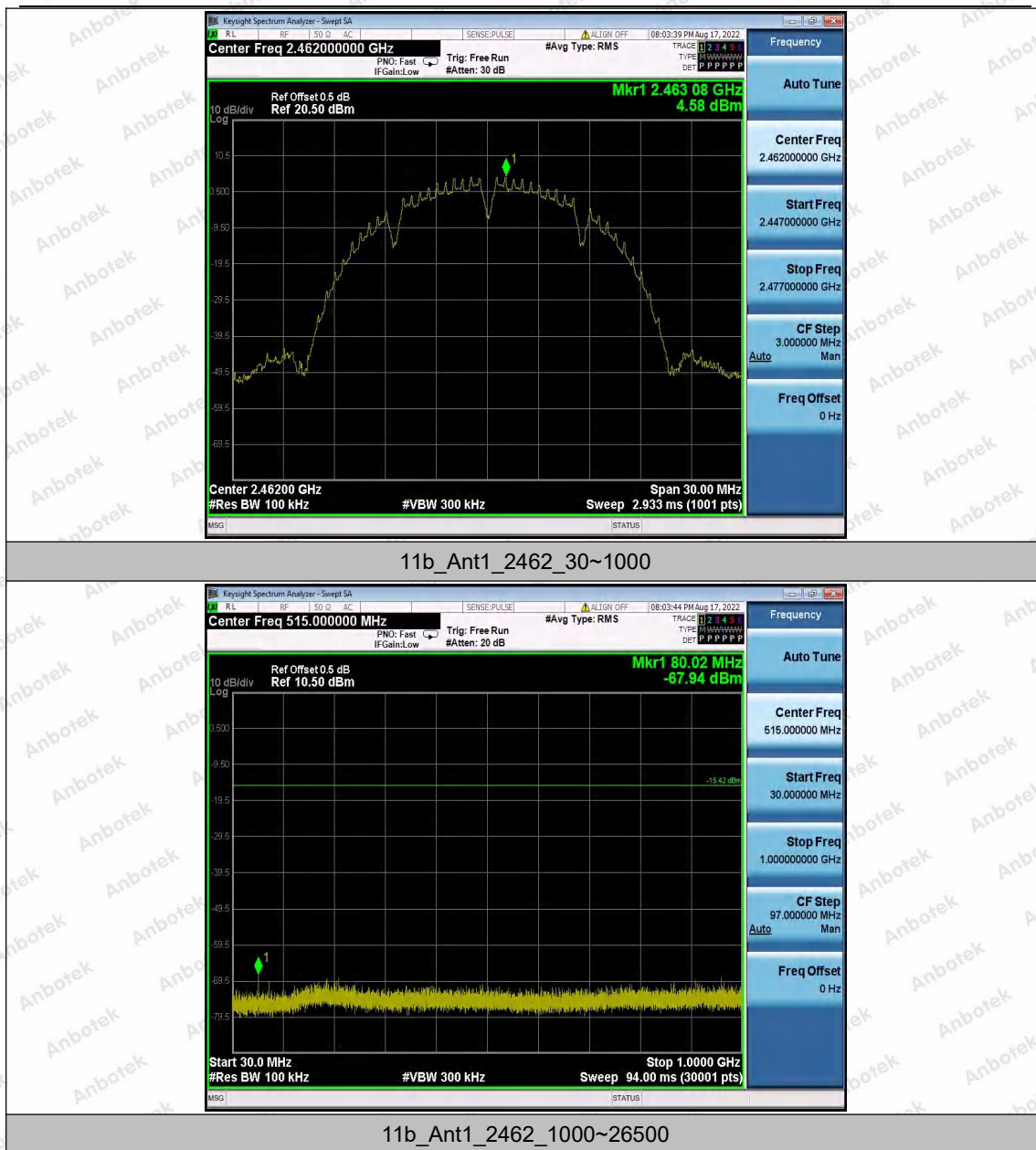
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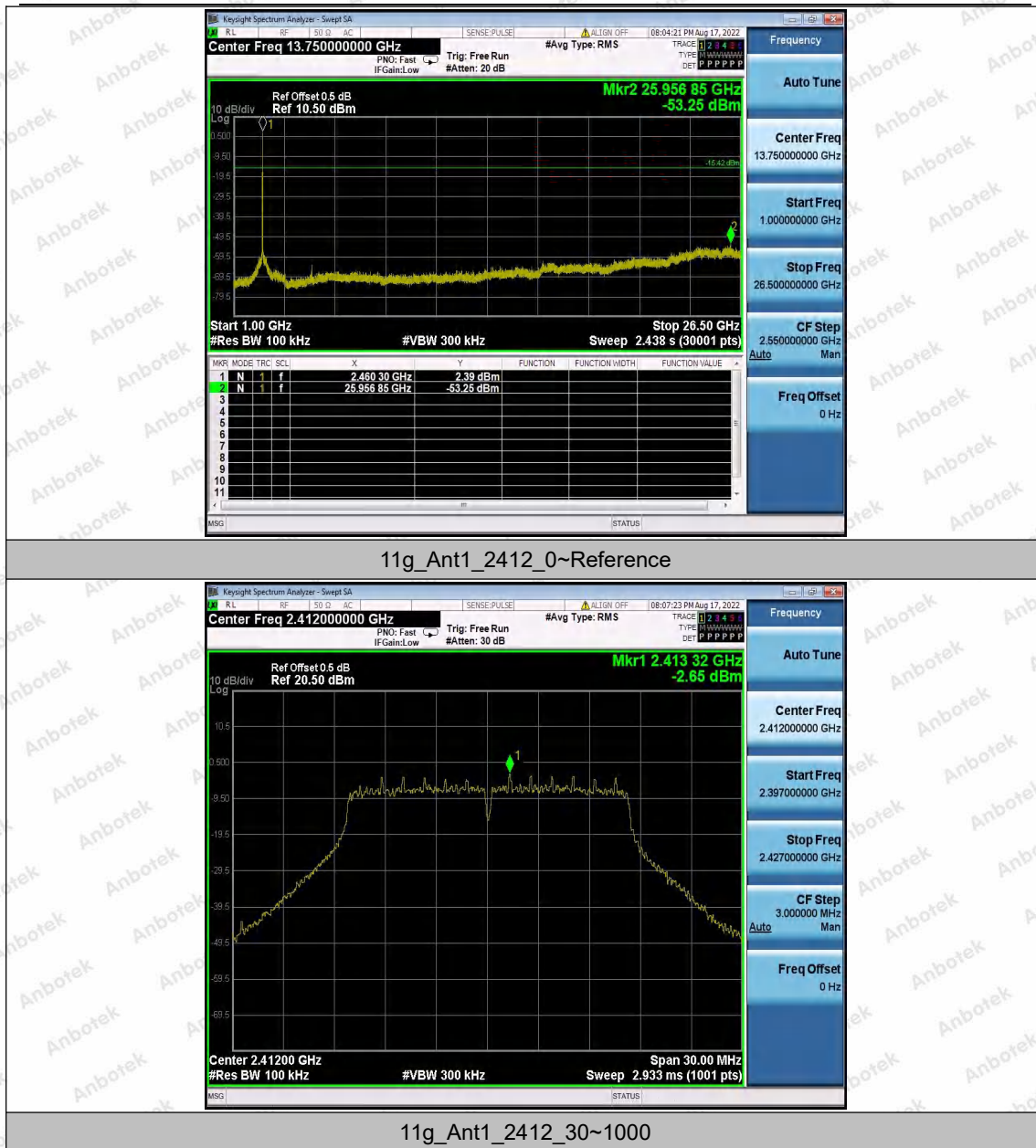
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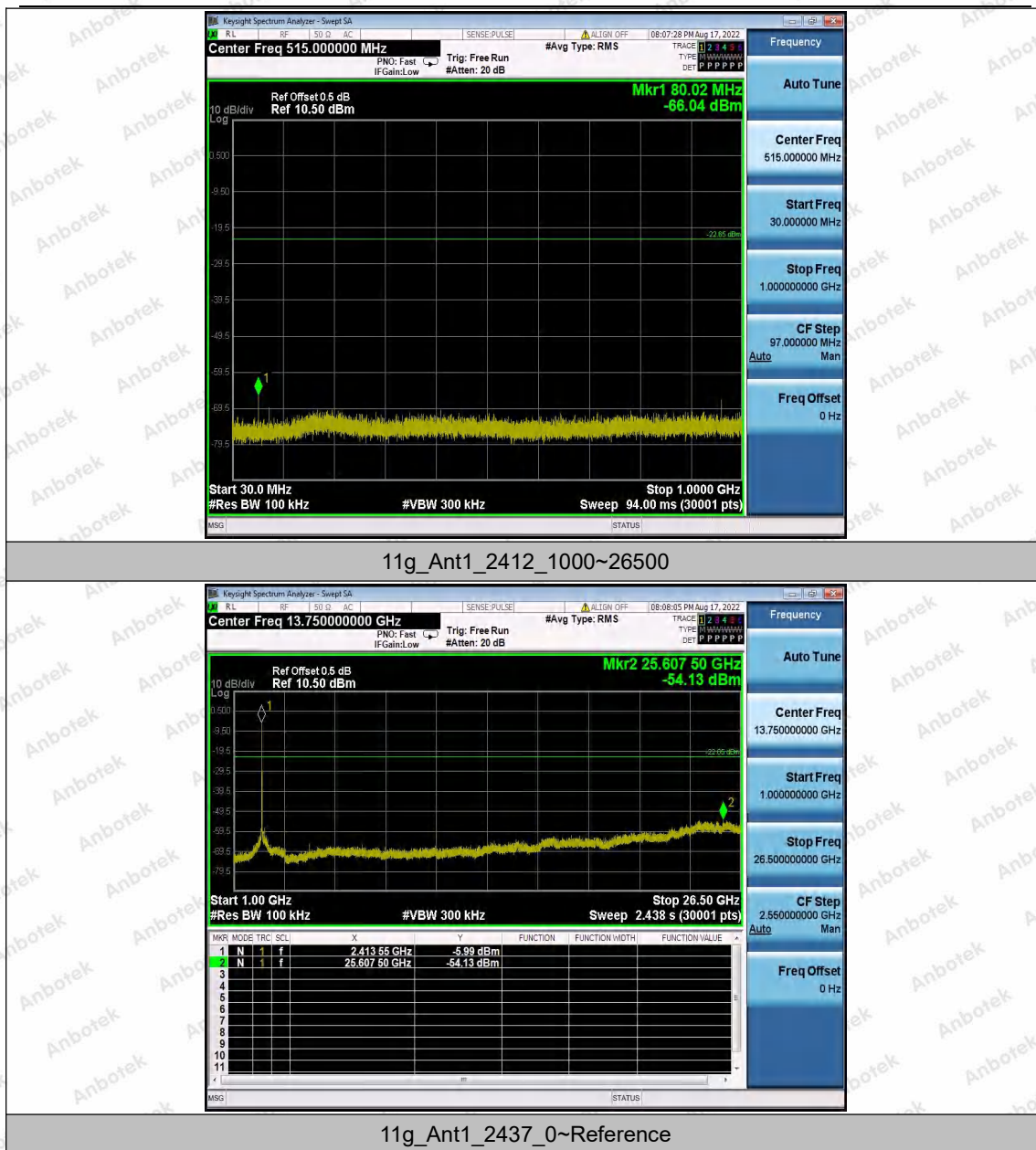
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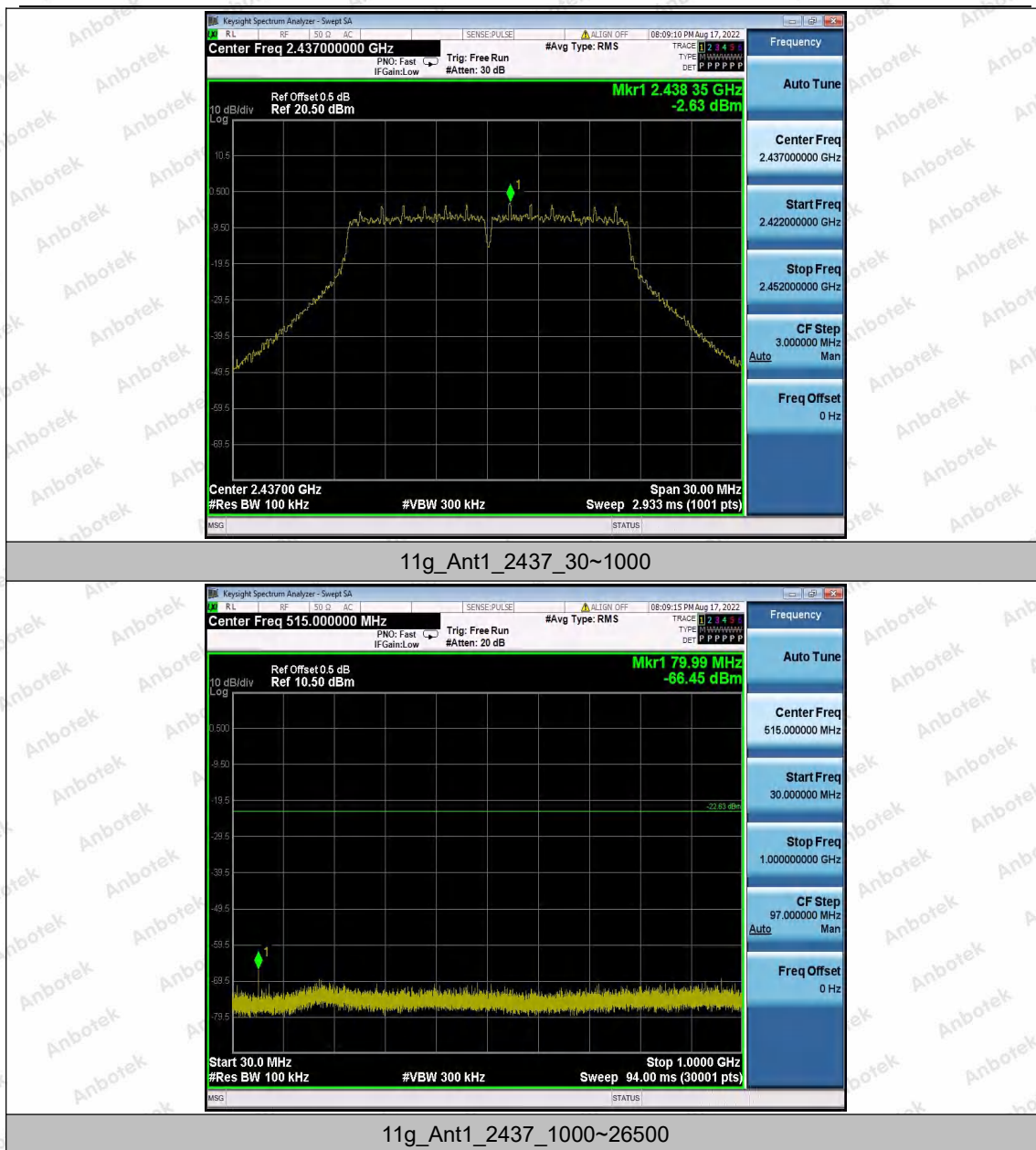
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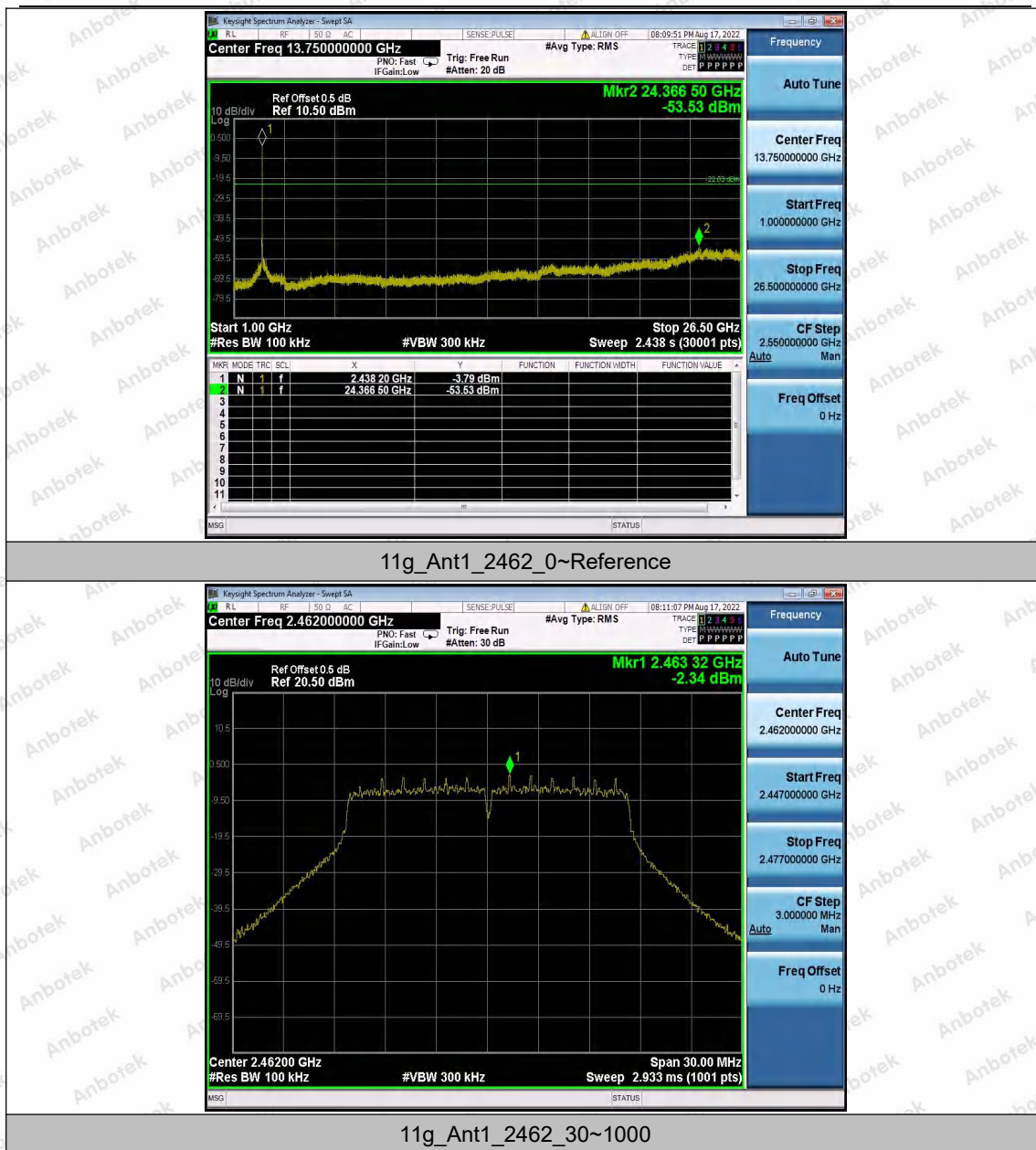
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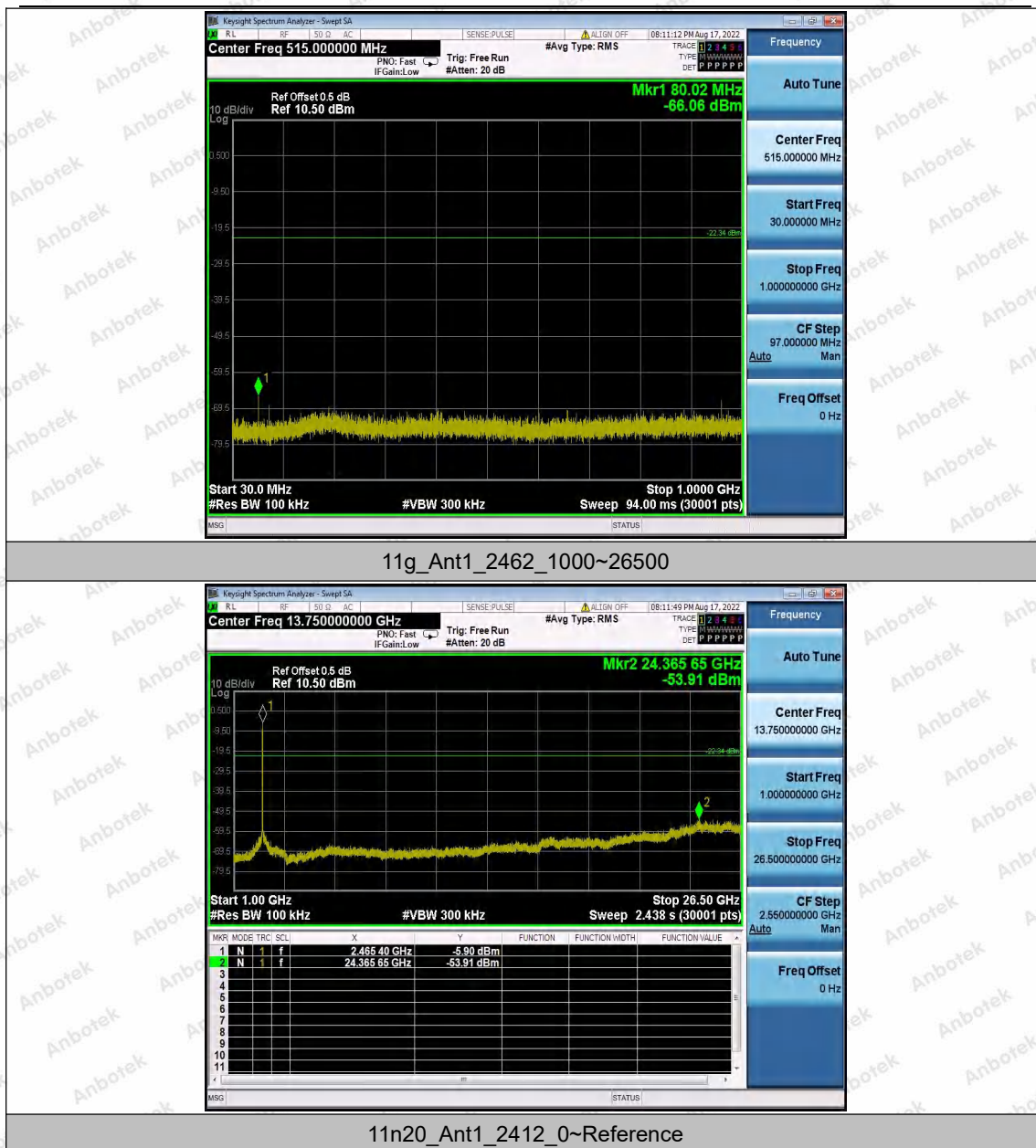
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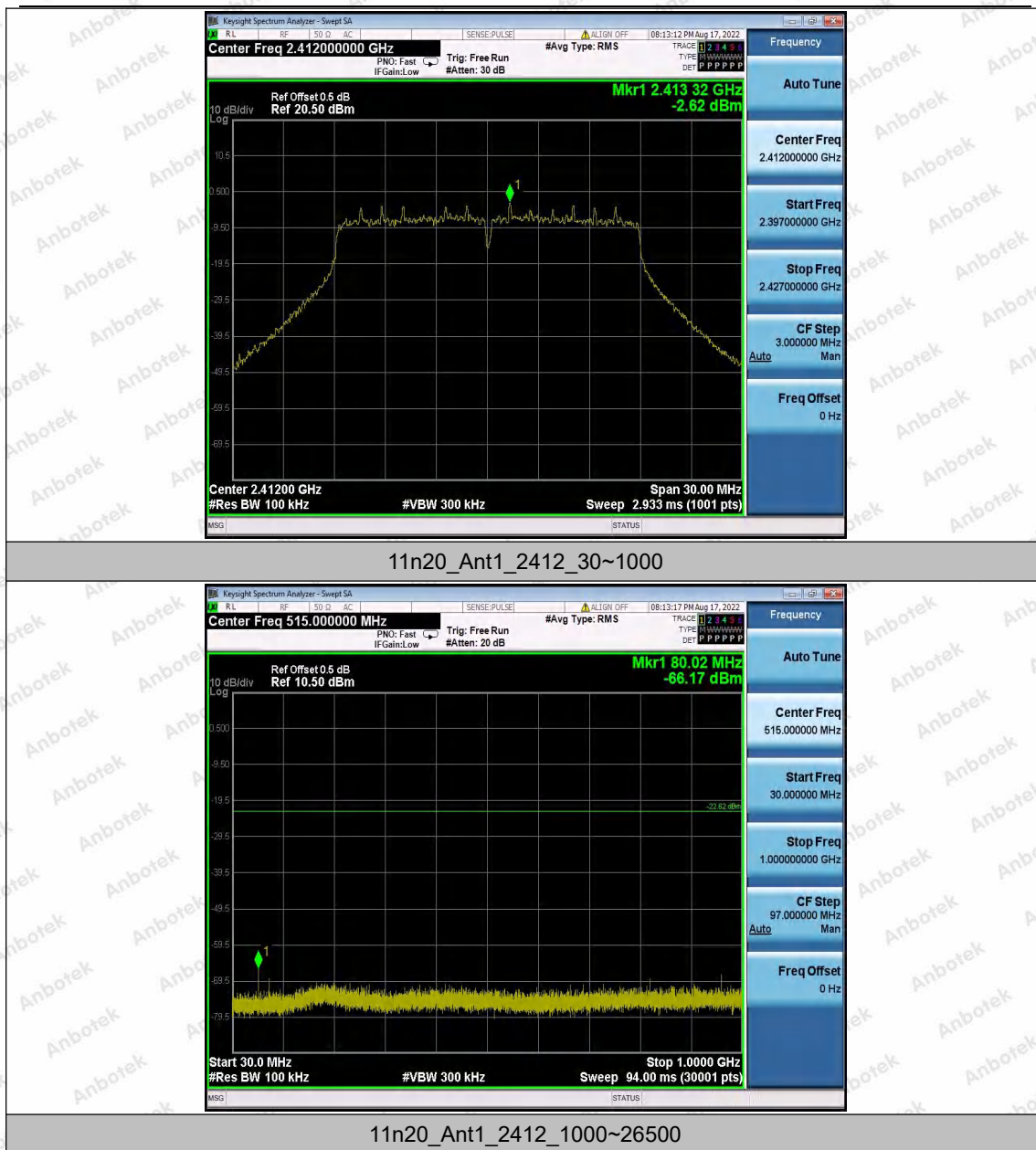
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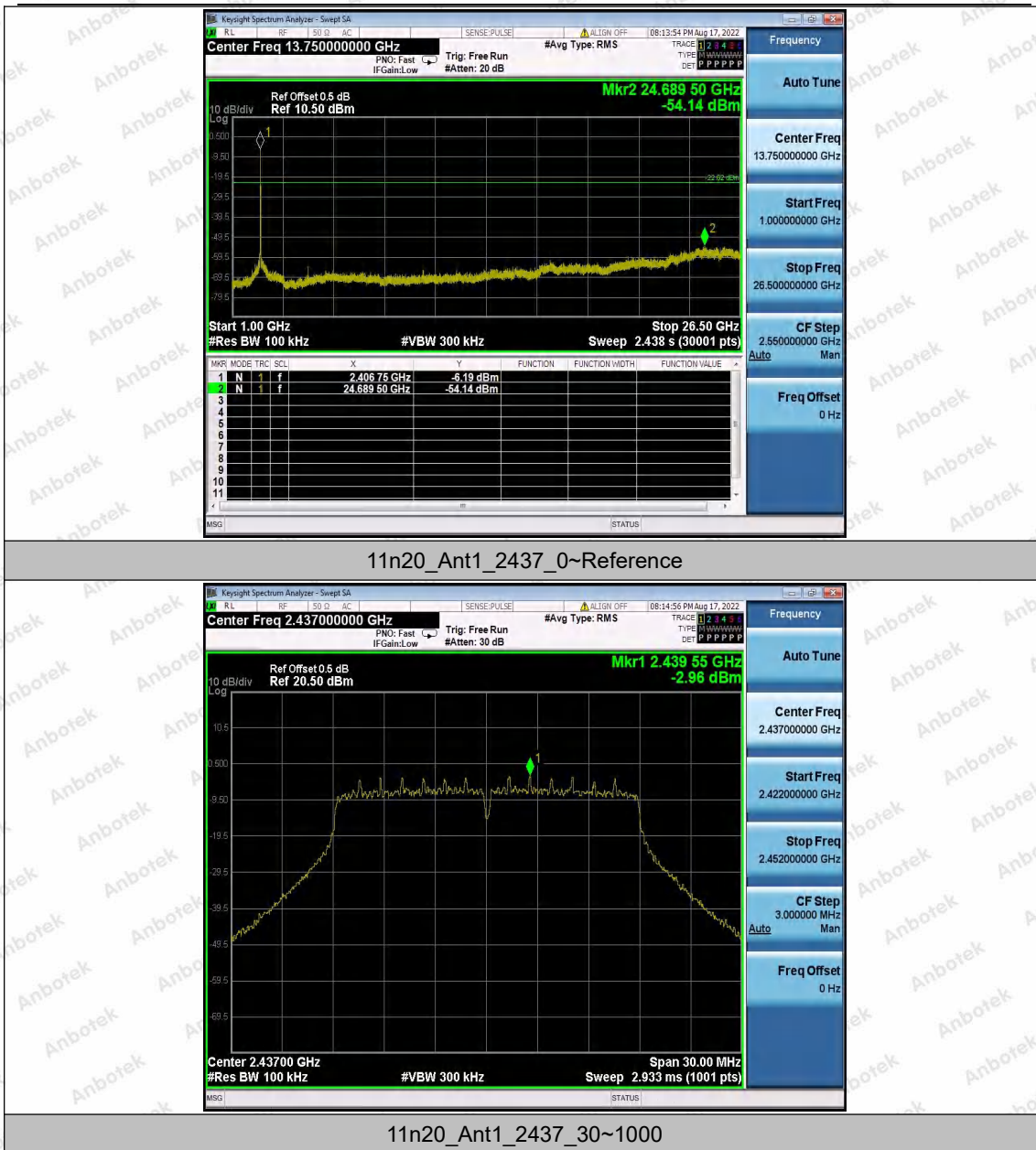
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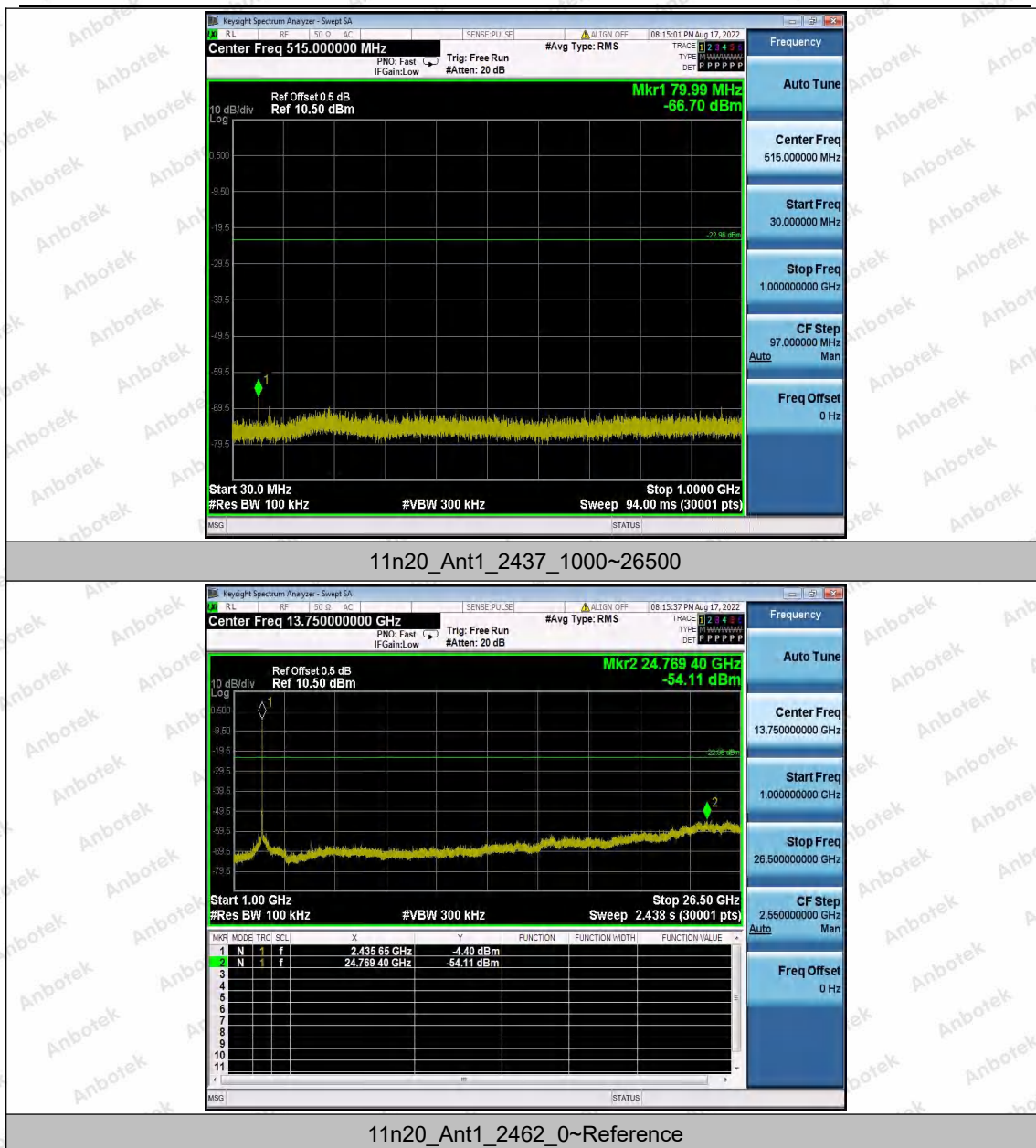
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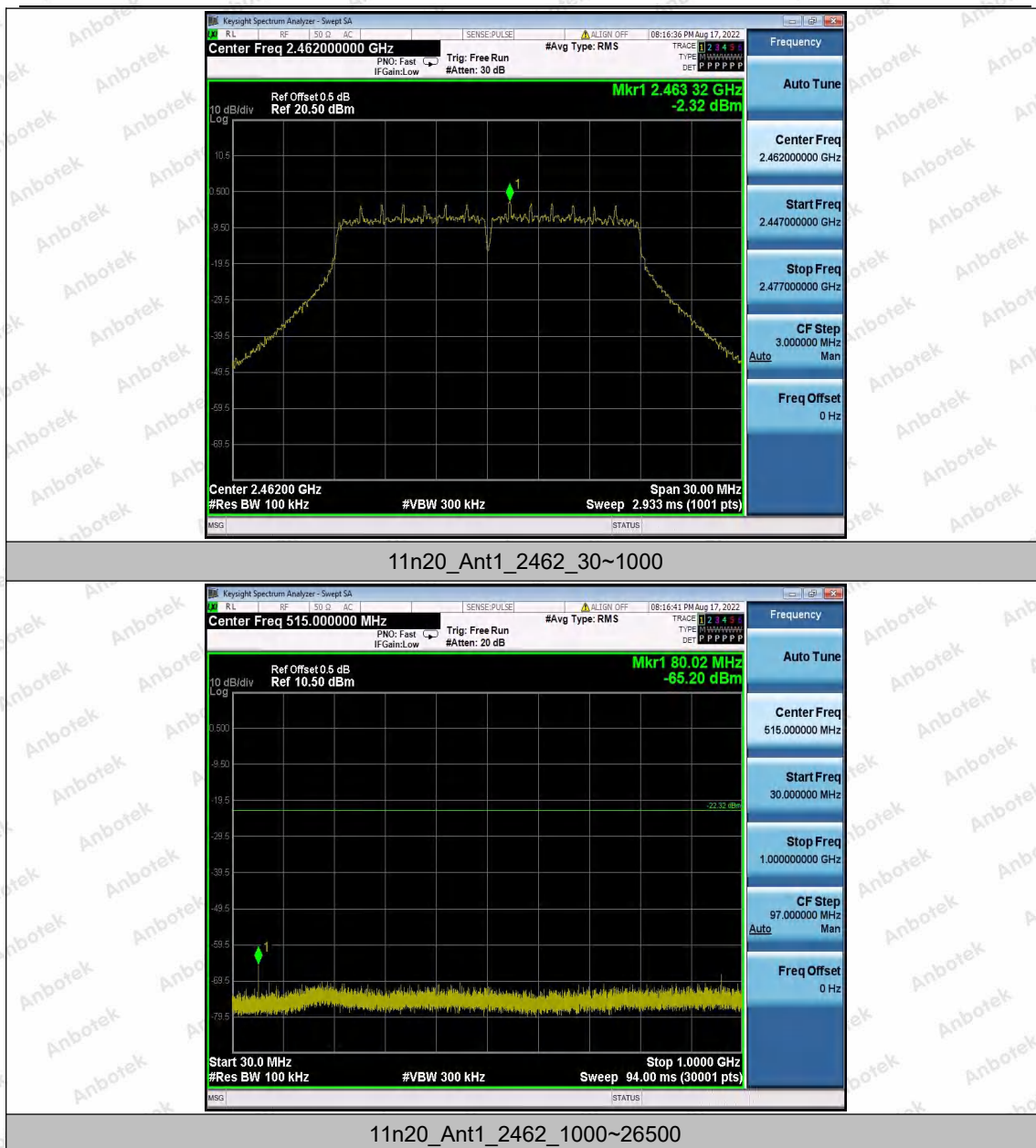
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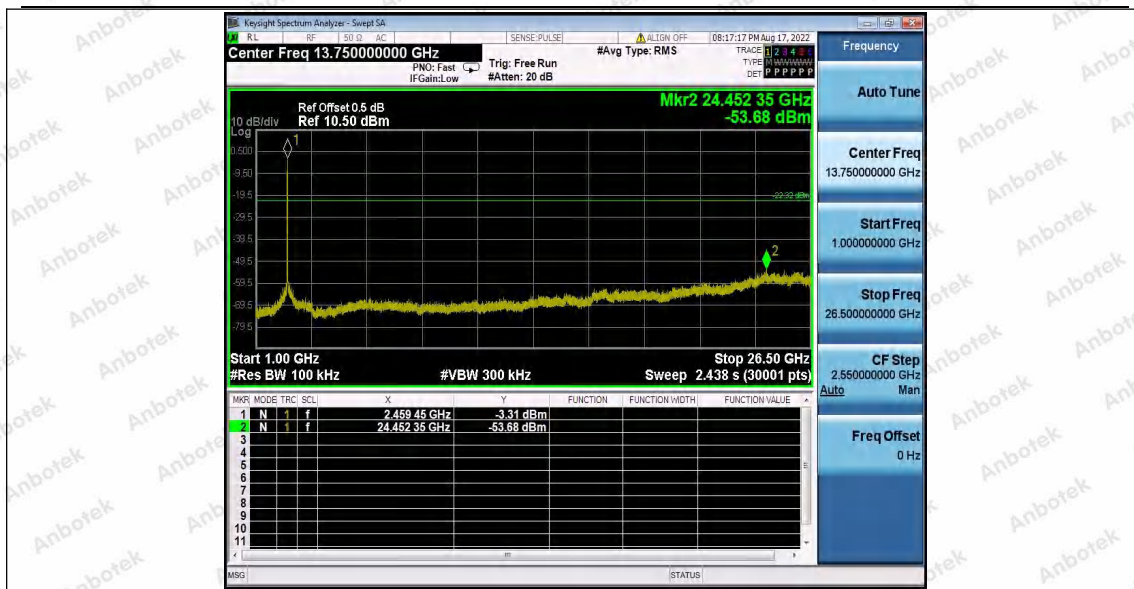
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Appendix G: Duty Cycle

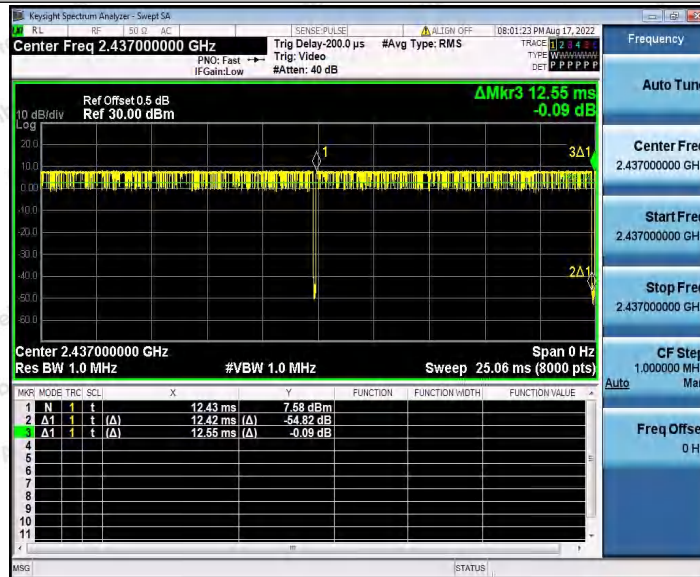
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant1	2437	12.42	12.55	98.96	0.05
11g	Ant1	2437	2.06	2.19	94.06	0.27
11n20	Ant1	2437	1.92	2.05	93.66	0.28

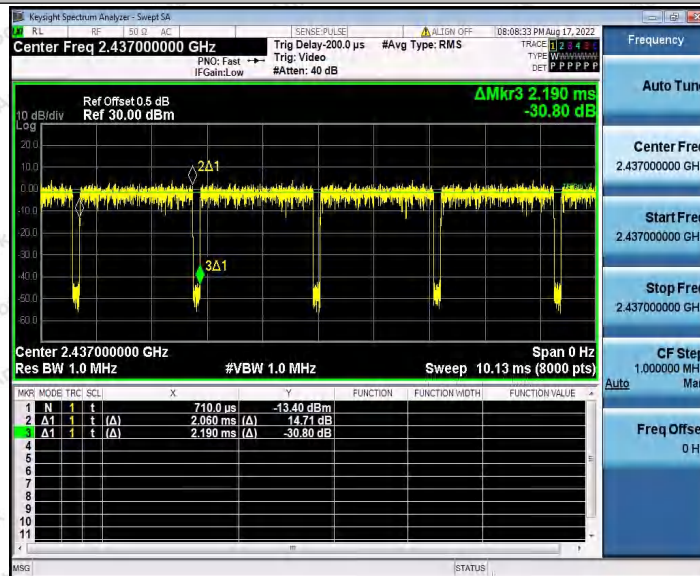


Test Graphs

11b_Ant1_2437



11g_Ant1_2437



11n20_Ant1_2437

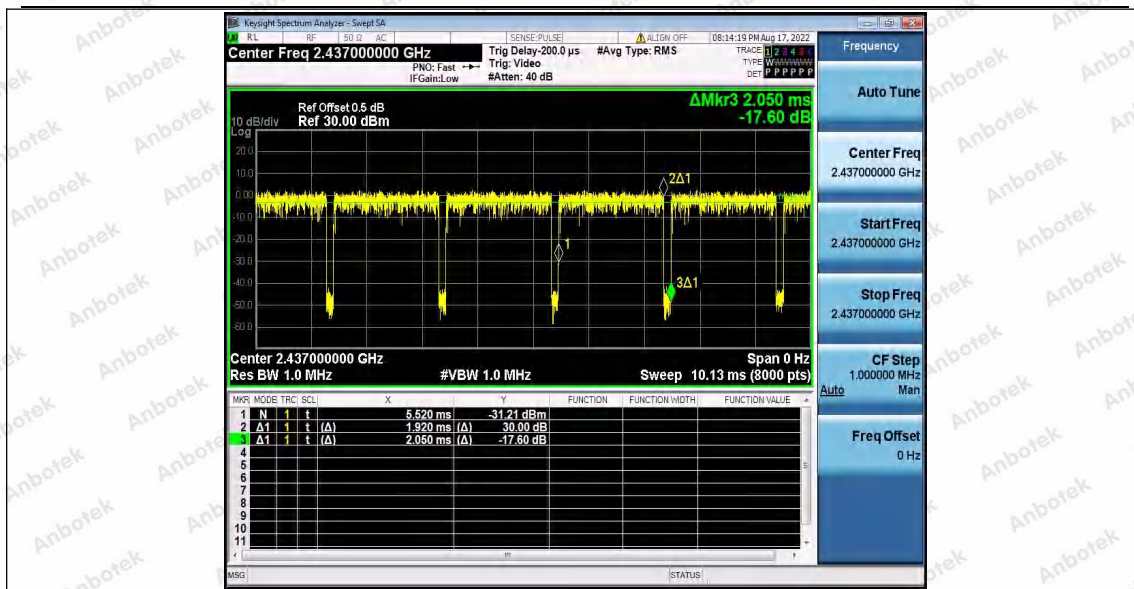
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