

Appendix Test Data

Report No.:	18220WC30241302	Test Sample No.:	1-2-2
Start Test Date:	2023.11.16	Finish Test Date:	2023.11.20
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.480	2417.000	≥0.5	PASS
		2437	9.520	2432.480	2442.000	≥0.5	PASS
		2462	8.560	2457.480	2466.040	≥0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	≥0.5	PASS
		2437	16.360	2428.840	2445.200	≥0.5	PASS
		2462	16.320	2453.840	2470.160	≥0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	≥0.5	PASS
		2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.560	2453.240	2470.800	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

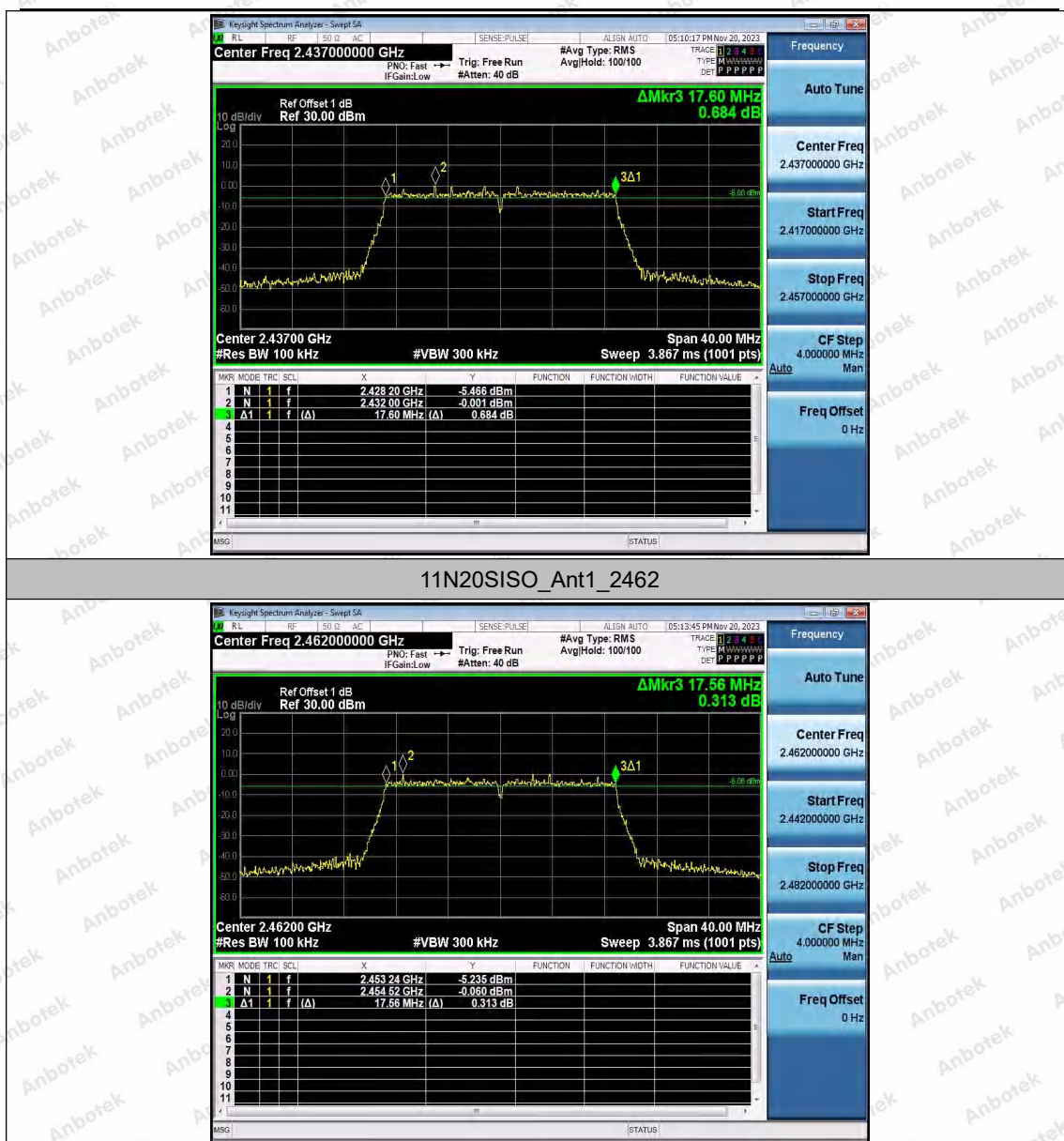
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.274	2404.9246	2419.1986
		2437	14.277	2429.9139	2444.1909
		2462	14.271	2454.8895	2469.1605
11G	Ant1	2412	17.068	2403.5307	2420.5987
		2437	17.069	2428.4816	2445.5506
		2462	17.047	2453.4937	2470.5407
11N20SISO	Ant1	2412	17.983	2403.0612	2421.0442
		2437	17.992	2428.0726	2446.0646
		2462	17.953	2453.0418	2470.9948



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

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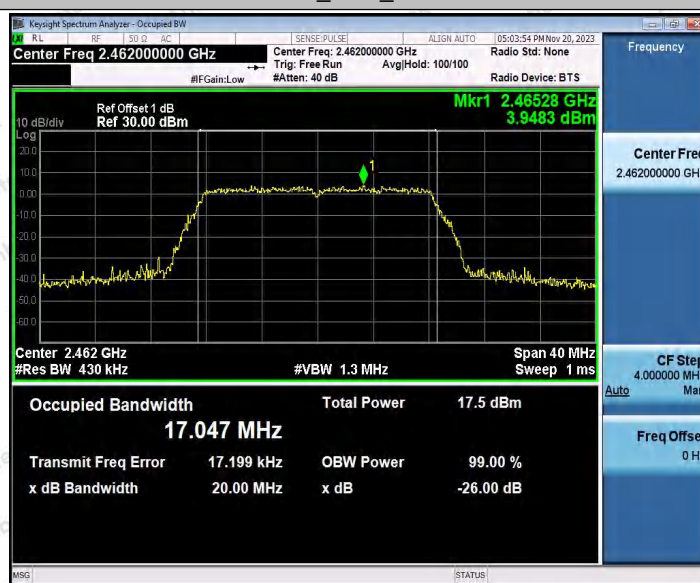
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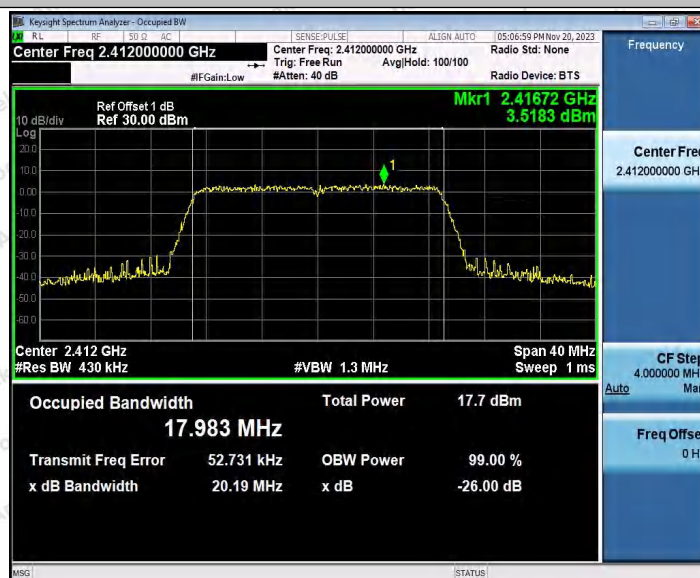
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.48	≤30.00
		2437	15.70	≤30.00
		2462	15.86	≤30.00
11G	Ant1	2412	16.25	≤30.00
		2437	16.29	≤30.00
		2462	16.01	≤30.00
11N20SISO	Ant1	2412	16.28	≤30.00
		2437	16.23	≤30.00
		2462	16.17	≤30.00



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.41	≤8.00	PASS
		2437	-9.27	≤8.00	PASS
		2462	-9.98	≤8.00	PASS
11G	Ant1	2412	-14.92	≤8.00	PASS
		2437	-14.93	≤8.00	PASS
		2462	-14.80	≤8.00	PASS
11N20SISO	Ant1	2412	-14.06	≤8.00	PASS
		2437	-14.88	≤8.00	PASS
		2462	-14.94	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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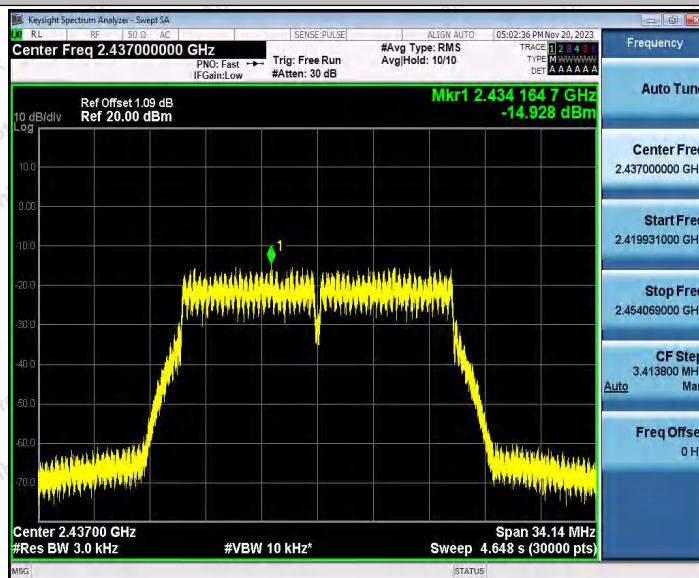




11G_Ant1_2412



11G_Ant1_2437



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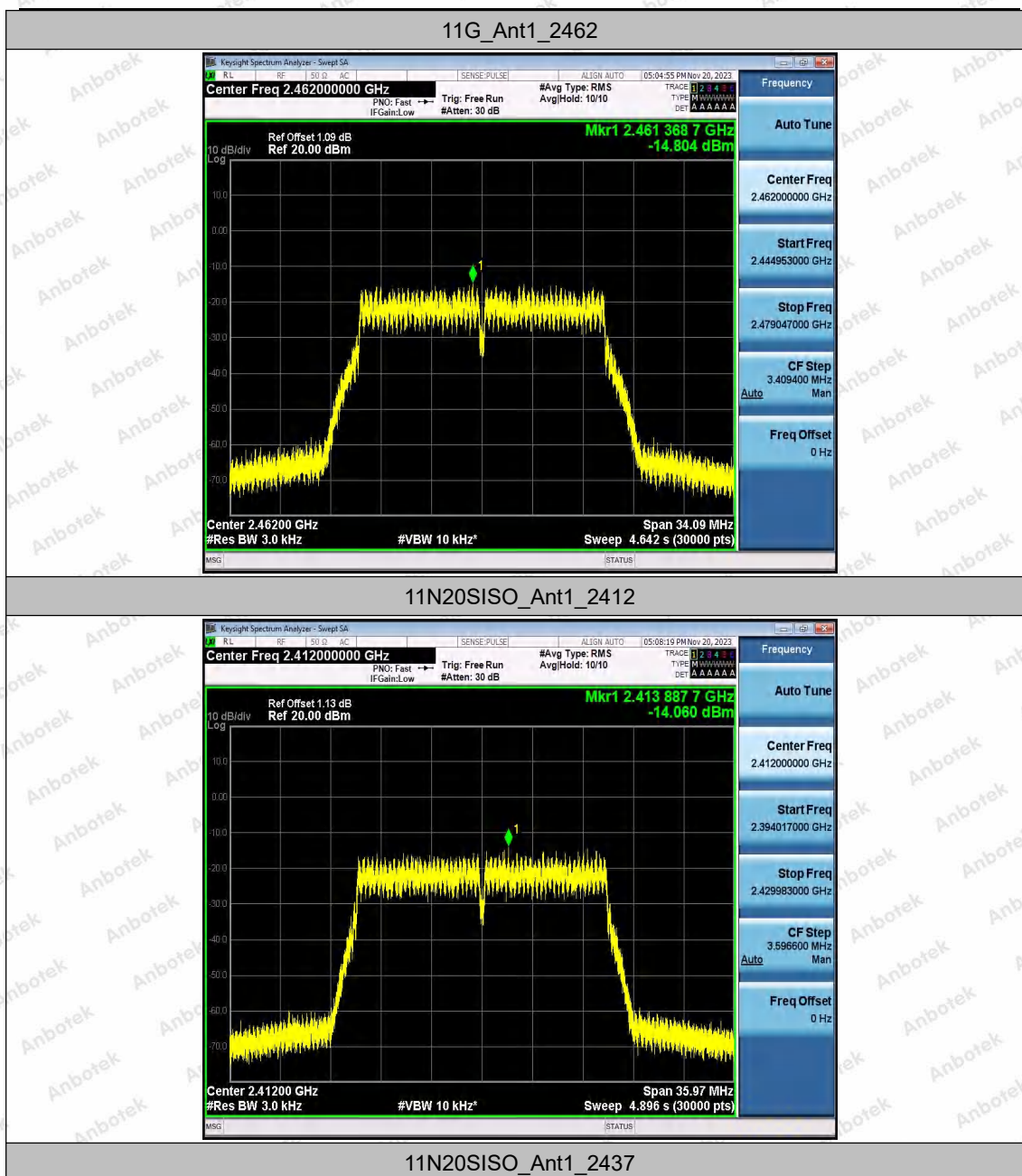


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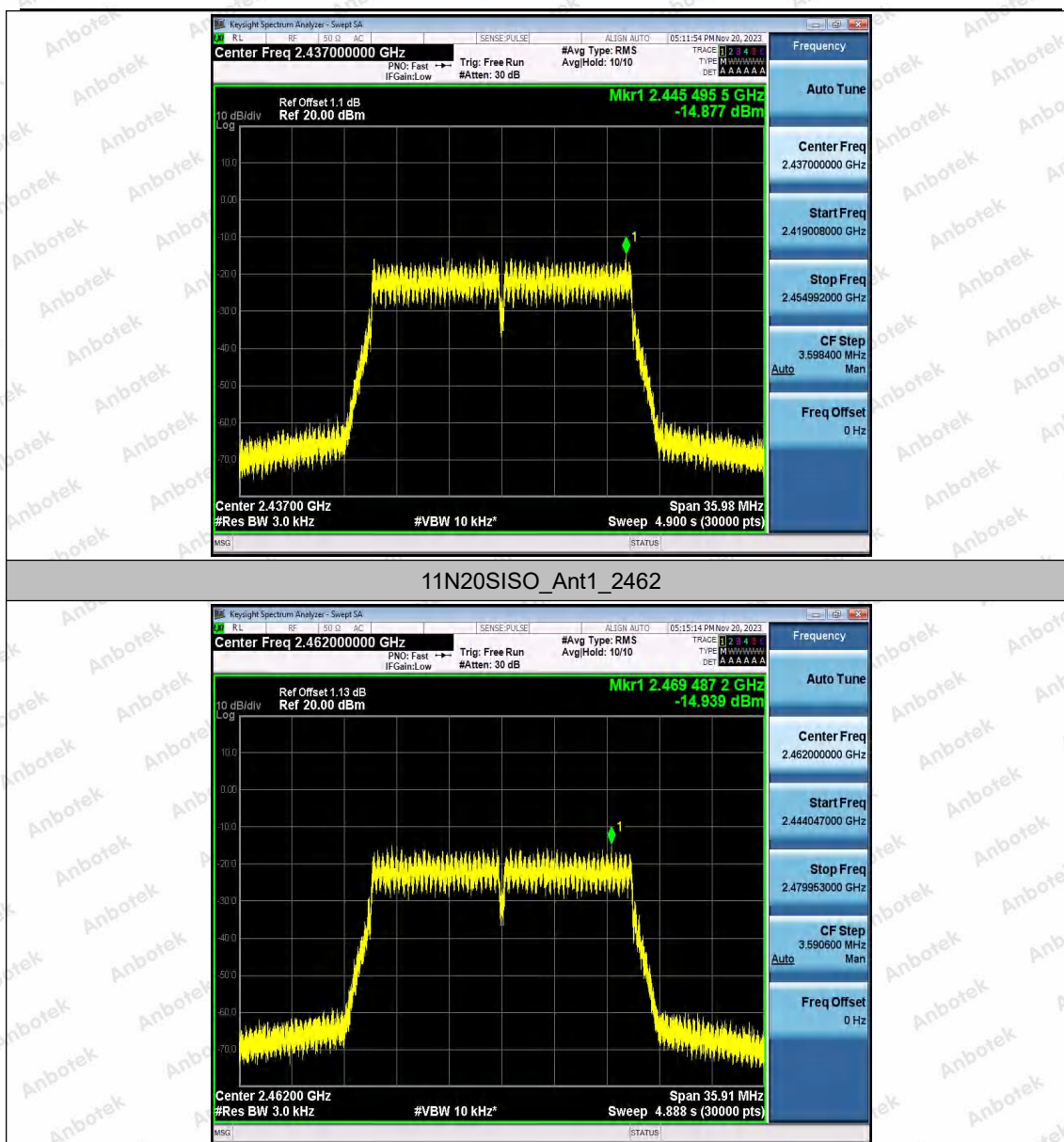
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.51	-45.69	≤-15.5	PASS
		High	2462	5.14	-54.63	≤-14.86	PASS
11G	Ant1	Low	2412	-0.02	-42.67	≤-20.02	PASS
		High	2462	0.18	-50.76	≤-19.82	PASS
11N20SISO	Ant1	Low	2412	0.85	-42.20	≤-19.15	PASS
		High	2462	0.11	-52.43	≤-19.89	PASS

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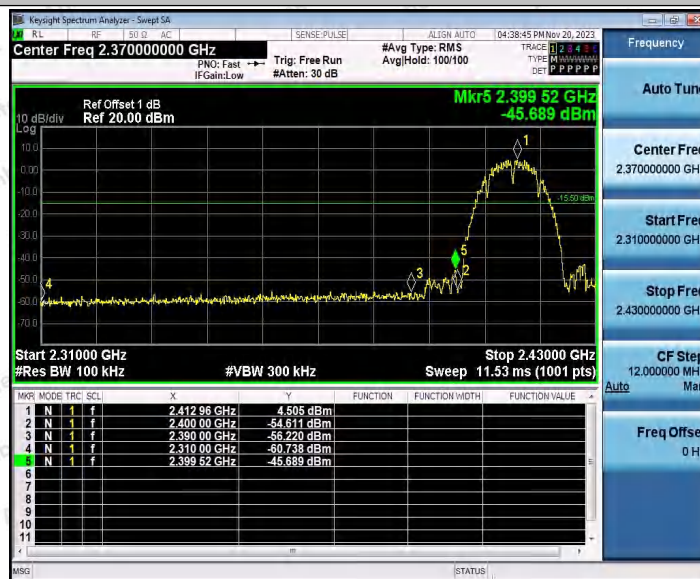


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Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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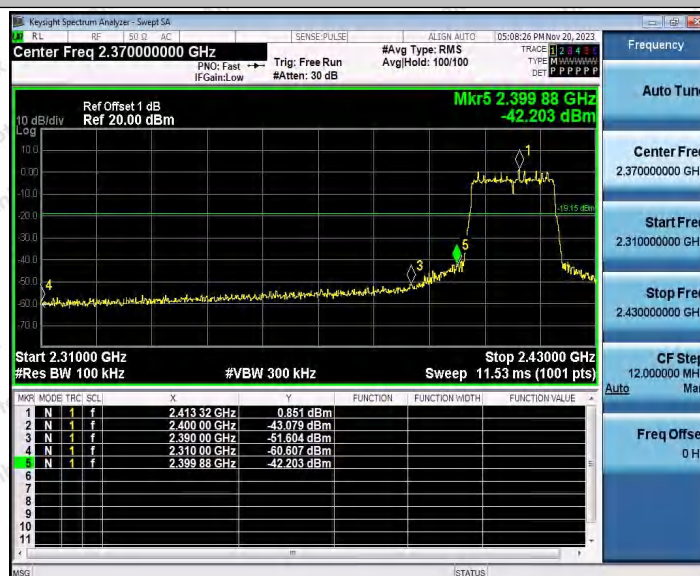




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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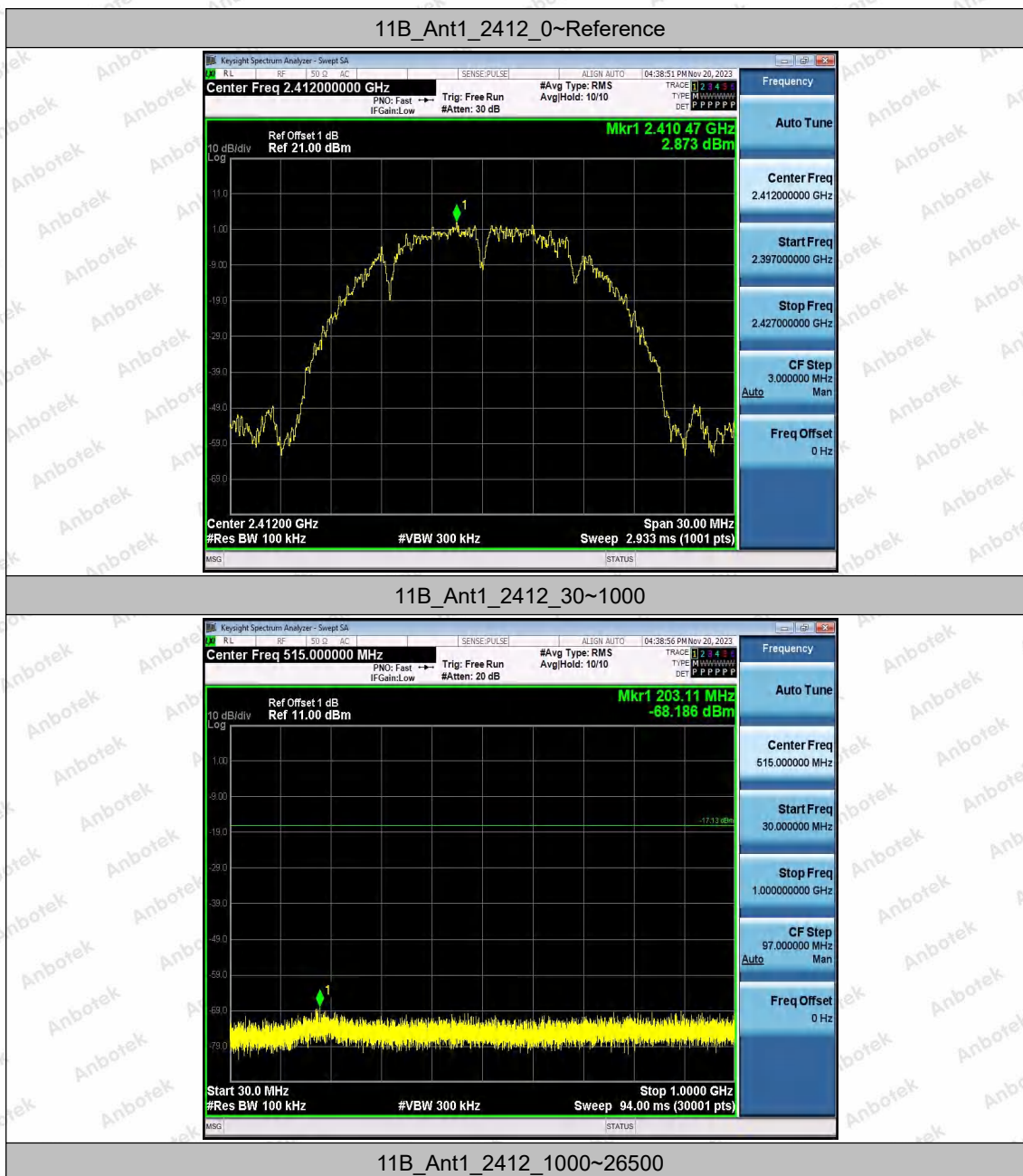
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.87	2.87	---	PASS
			30~1000	2.87	-68.19	≤-17.13	PASS
			1000~26500	2.87	-53.70	≤-17.13	PASS
		2437	Reference	3.61	3.61	---	PASS
			30~1000	3.61	-68.68	≤-16.39	PASS
			1000~26500	3.61	-53.45	≤-16.39	PASS
		2462	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-68.88	≤-16.19	PASS
			1000~26500	3.81	-53.70	≤-16.19	PASS
11G	Ant1	2412	Reference	-2.95	-2.95	---	PASS
			30~1000	-2.95	-68.89	≤-22.95	PASS
			1000~26500	-2.95	-53.72	≤-22.95	PASS
		2437	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-67.65	≤-21.64	PASS
			1000~26500	-1.64	-53.77	≤-21.64	PASS
		2462	Reference	-3.63	-3.63	---	PASS
			30~1000	-3.63	-68.53	≤-23.63	PASS
			1000~26500	-3.63	-53.50	≤-23.63	PASS
11N20SISO	Ant1	2412	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-68.74	≤-22.49	PASS
			1000~26500	-2.49	-53.35	≤-22.49	PASS
		2437	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-68.84	≤-21.75	PASS
			1000~26500	-1.75	-53.55	≤-21.75	PASS
		2462	Reference	-3.05	-3.05	---	PASS
			30~1000	-3.05	-68.24	≤-23.05	PASS
			1000~26500	-3.05	-53.76	≤-23.05	PASS



Test Graphs



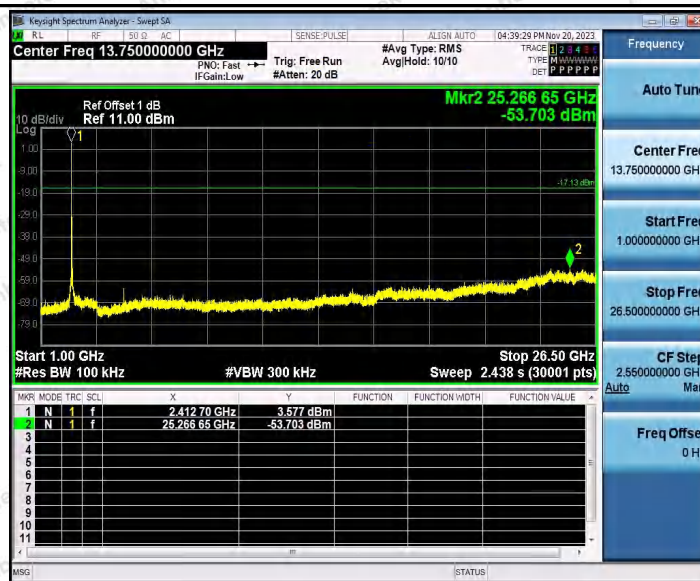
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



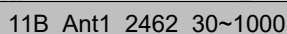
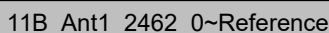
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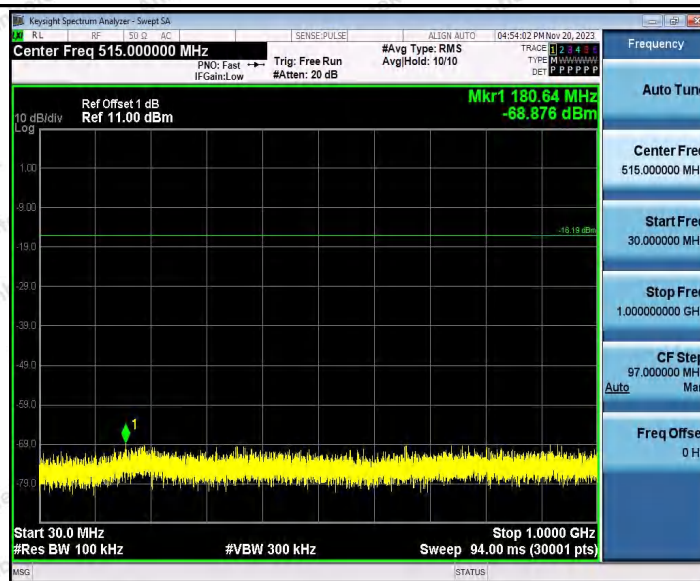


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



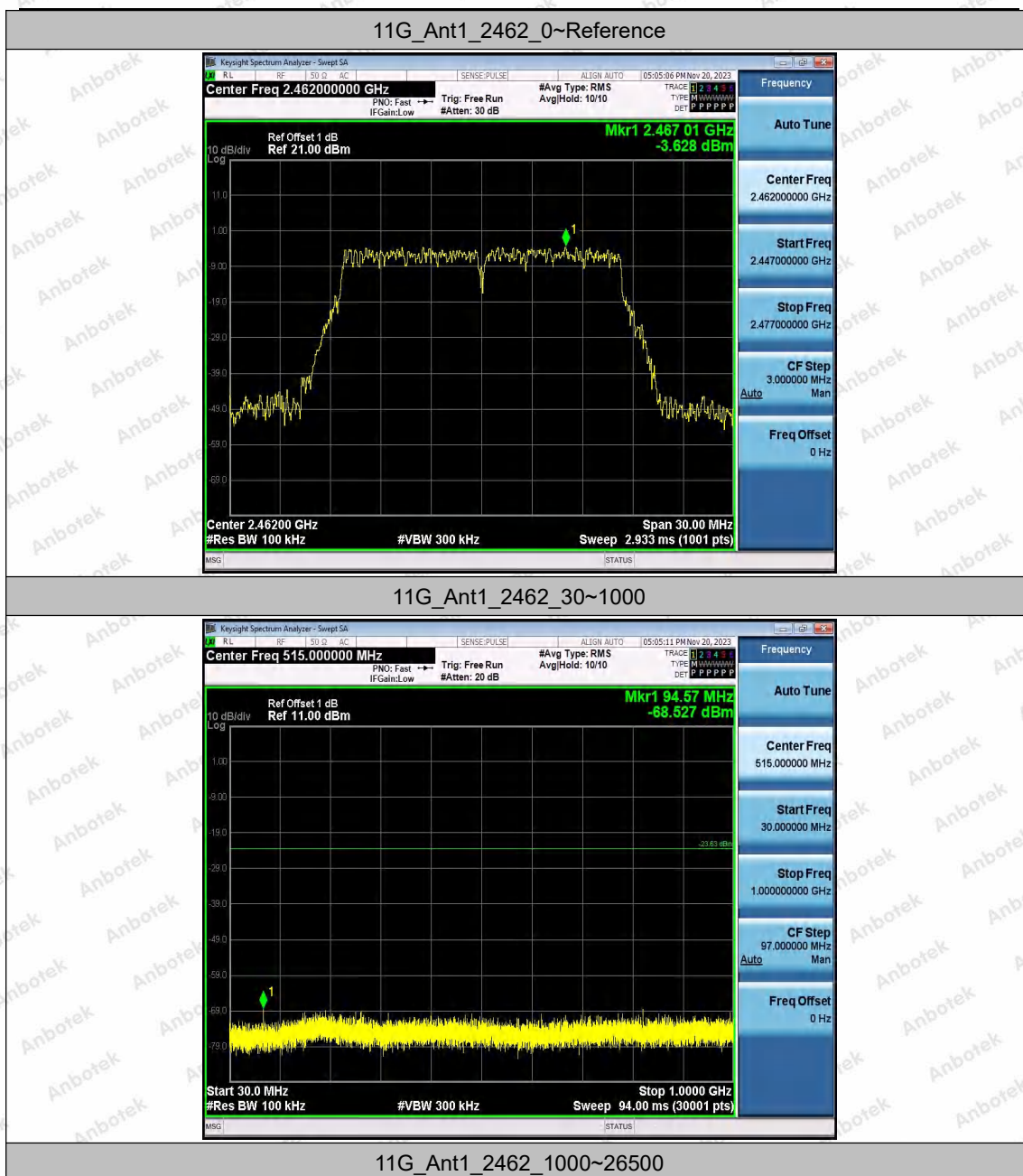
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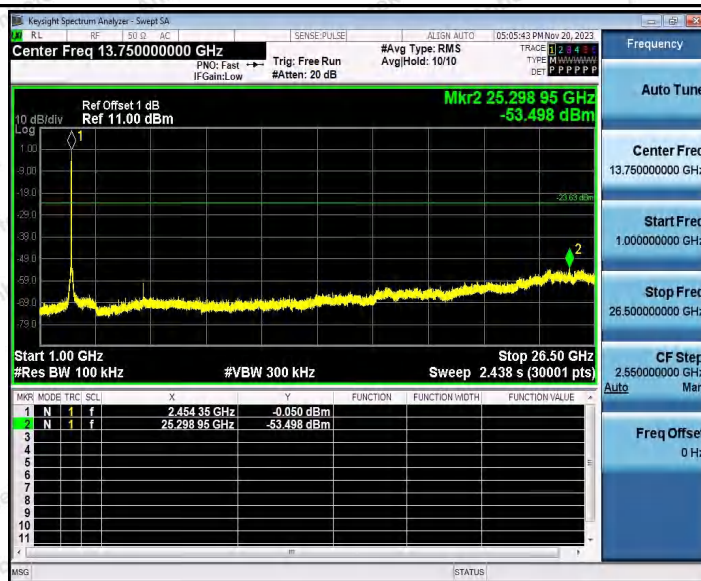
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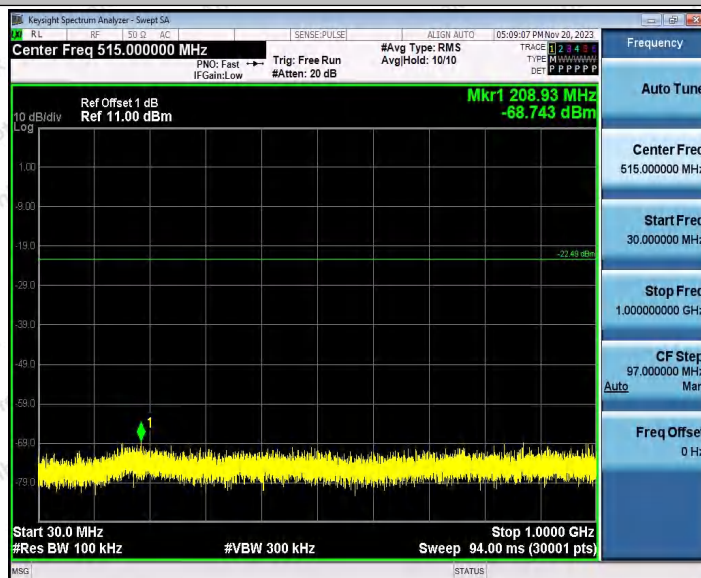




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11N20SISO_Ant1_2412_30~1000



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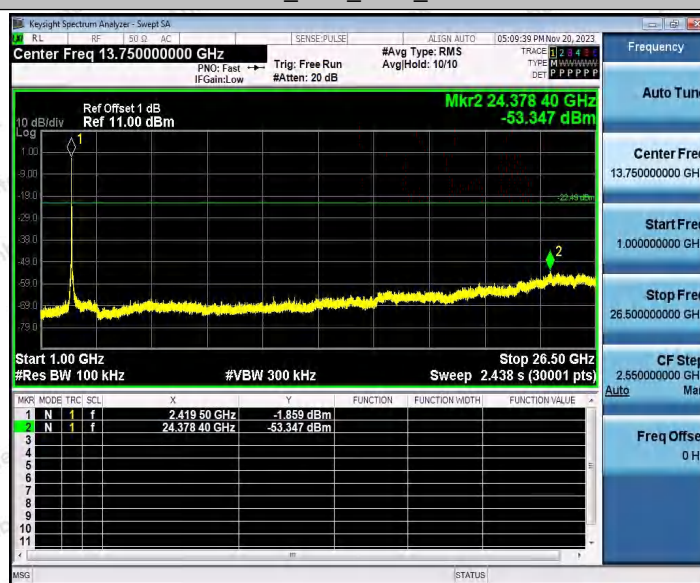
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

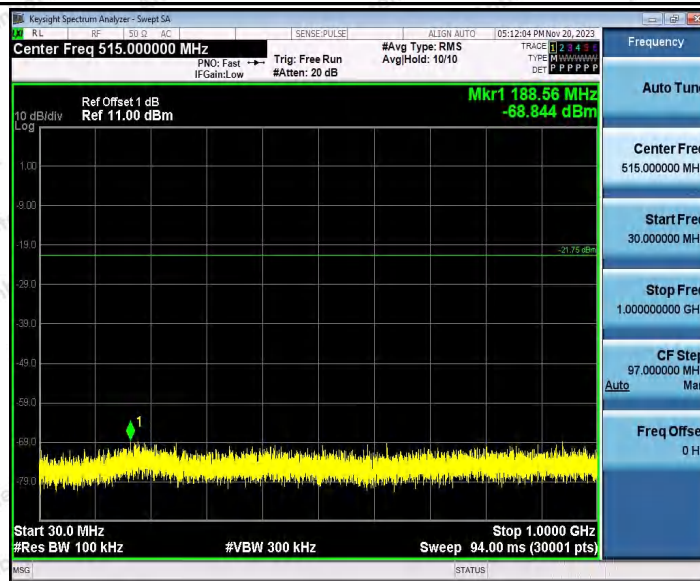
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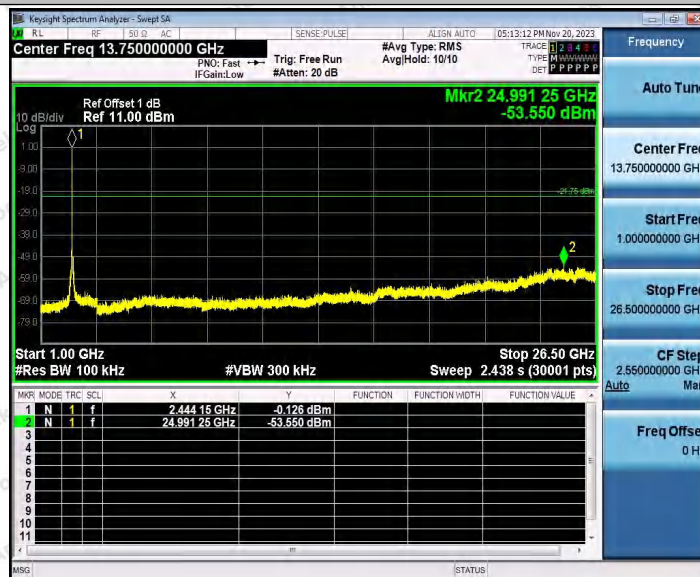


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



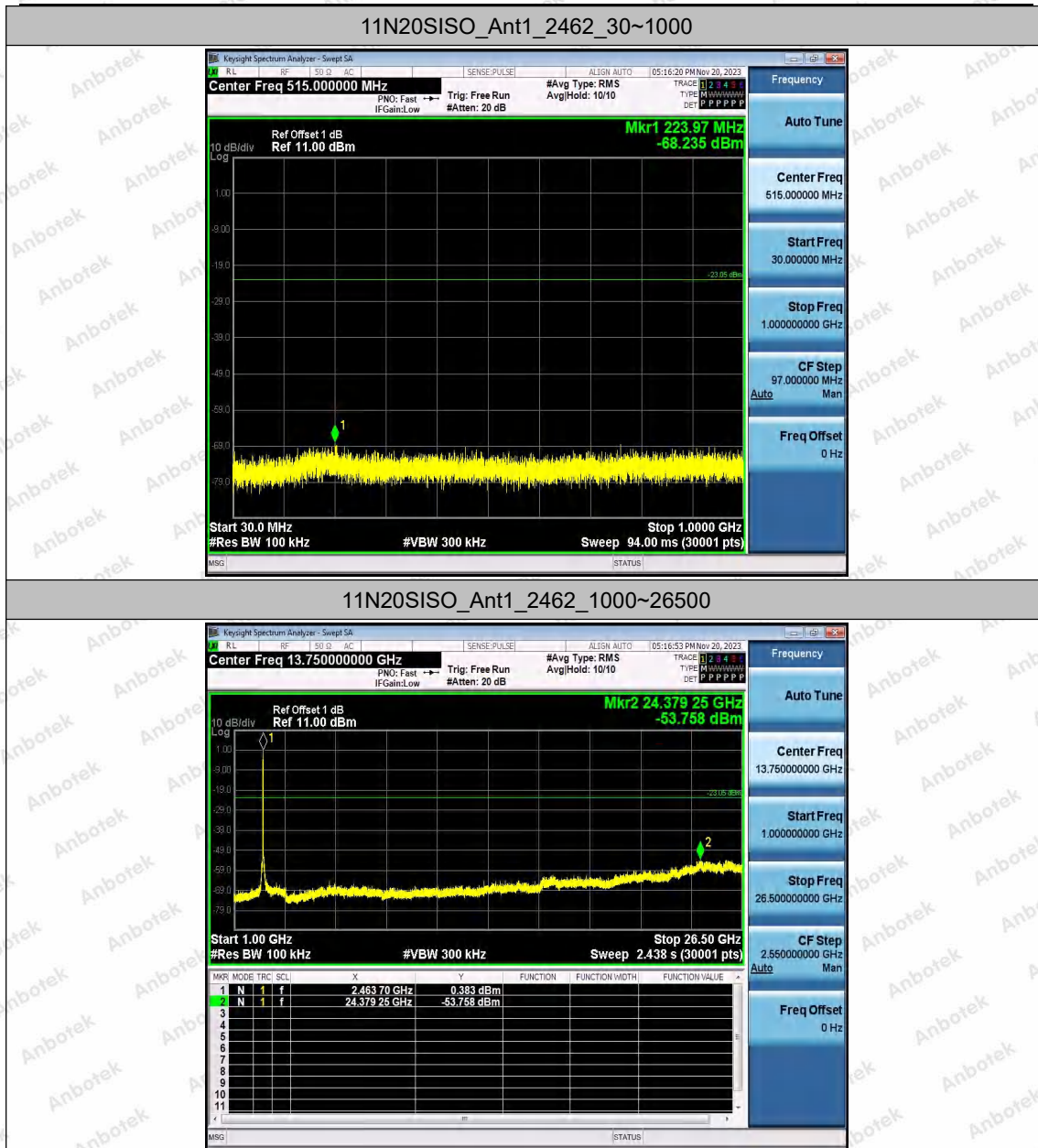
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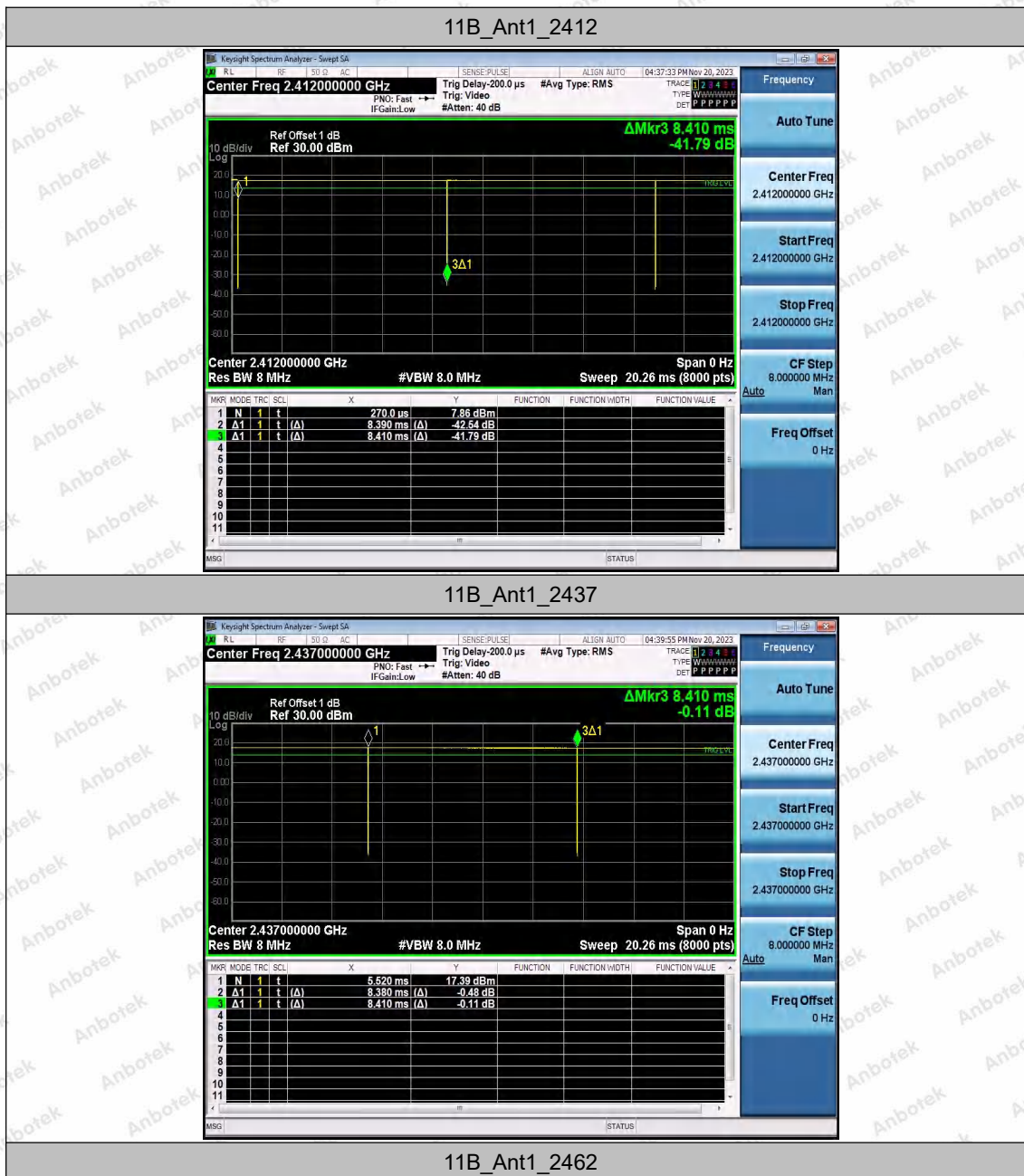
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.41	99.76	0.01
		2437	8.38	8.41	99.64	0.02
		2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.42	97.89	0.09
		2462	1.39	1.42	97.89	0.09
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.34	97.01	0.13



Test Graphs



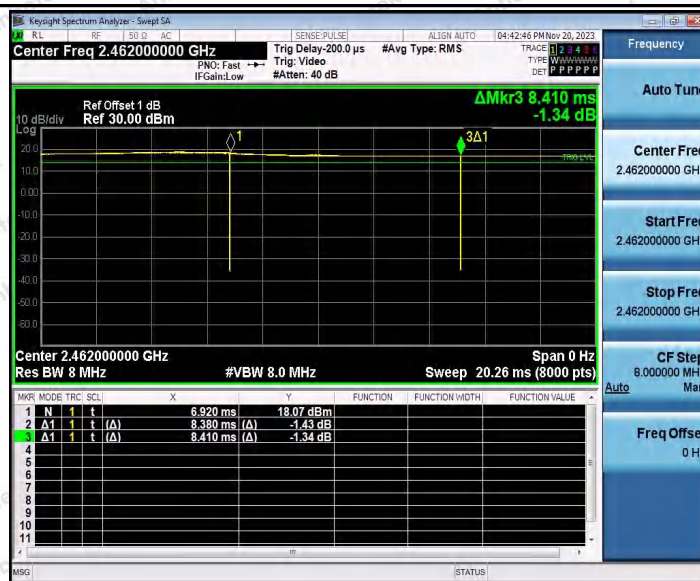
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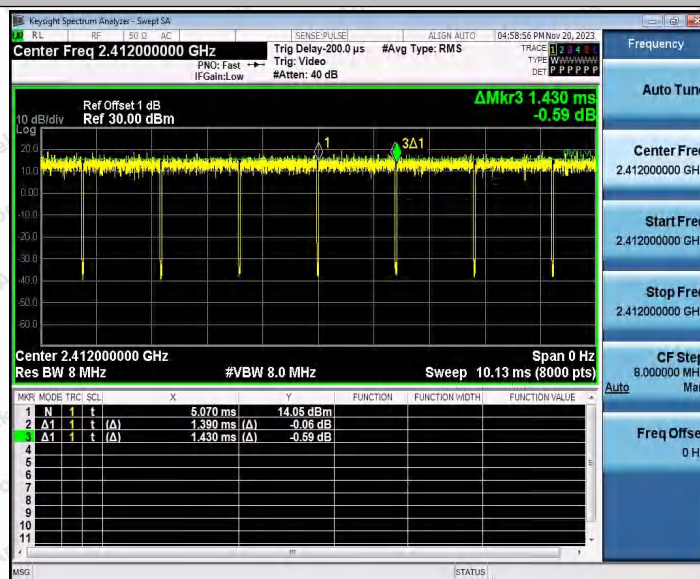


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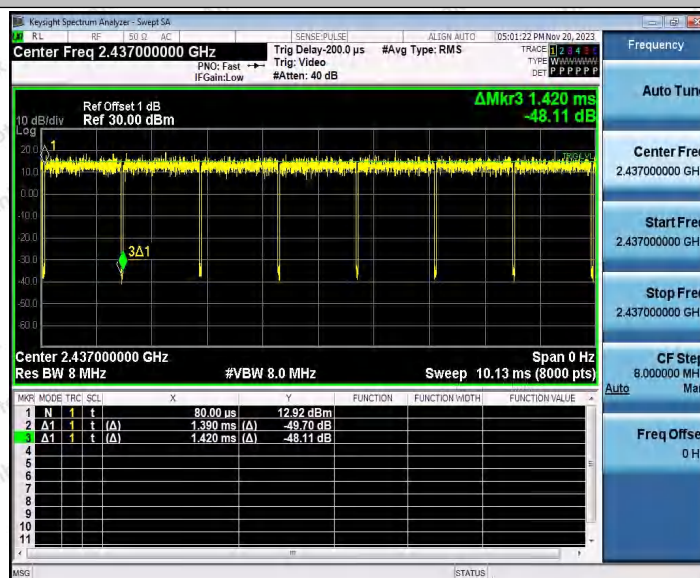




11G_Ant1_2412



11G_Ant1_2437



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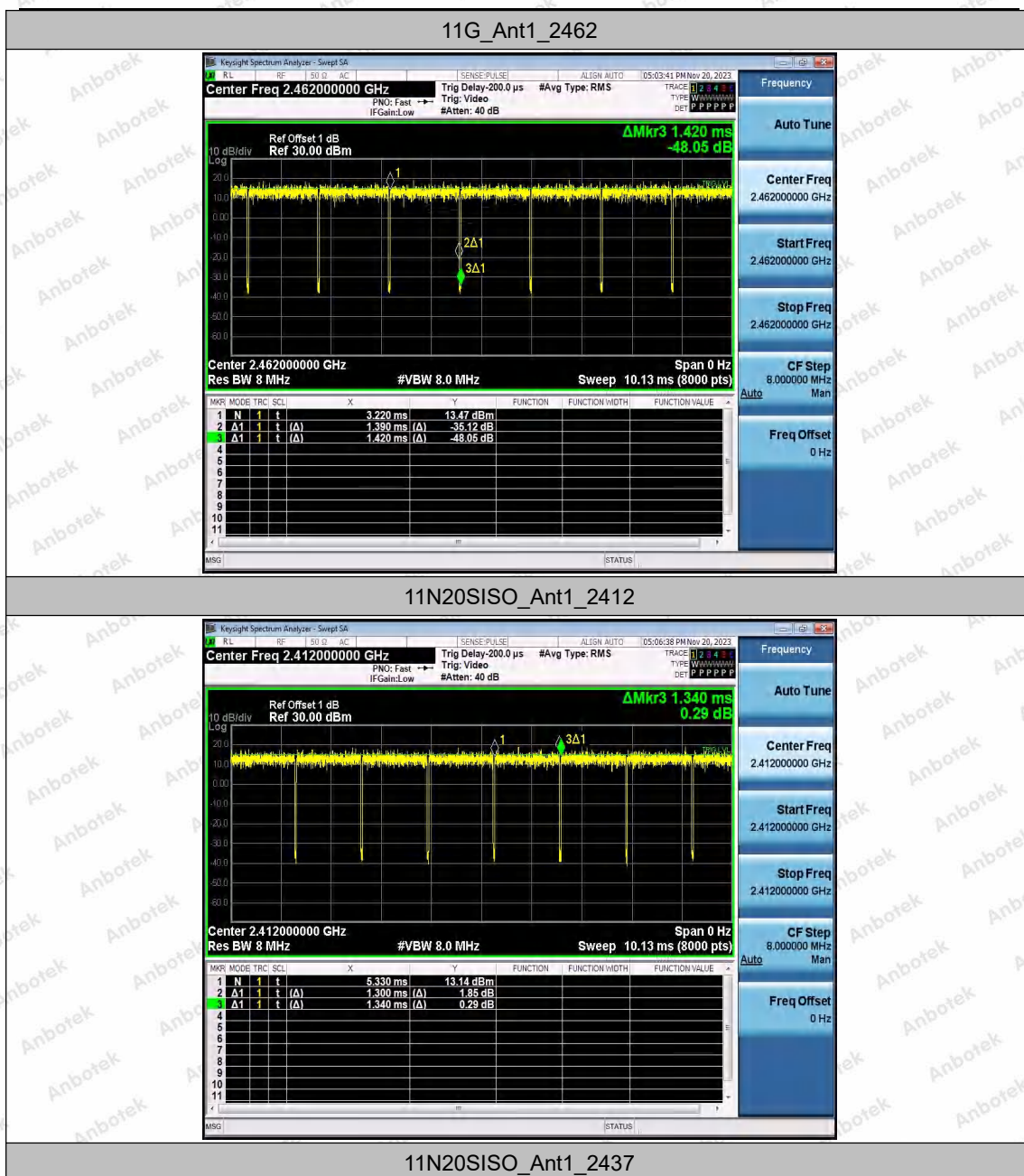


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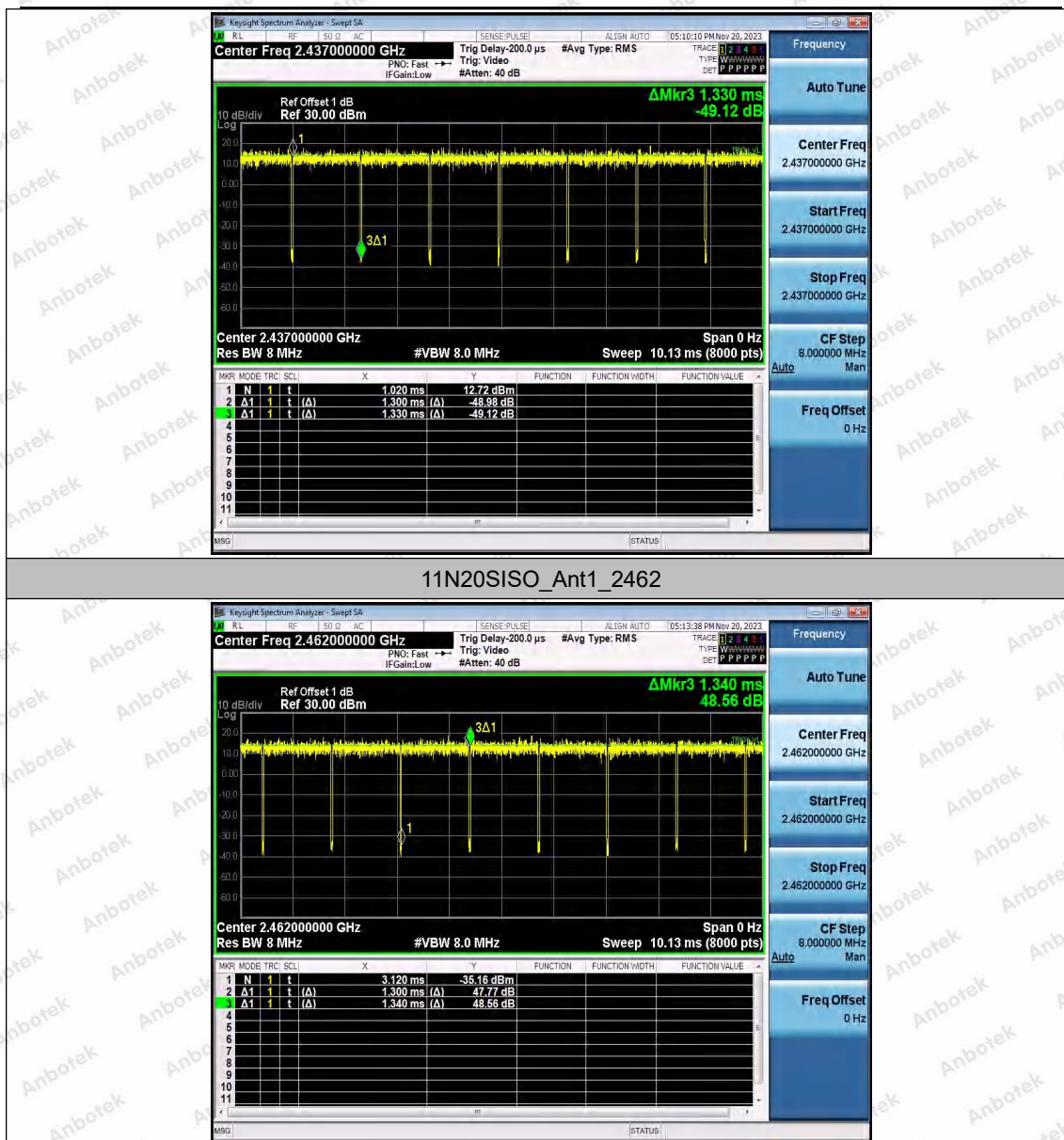
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