

Appendix Test Data

Report No.:	18220WC30263902	Test Sample No.:	1-2-2
Start Test Date:	2023.12.21	Finish Test Date:	2023.12.23
Test Engineer:	Hayman Chen	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	44%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.600	2407.440	2417.040	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.040	2457.000	2467.040	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	17.560	2428.240	2445.800	0.5	PASS
		2462	17.600	2453.200	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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11N20SISO_Ant1_2462



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.294	2404.9228	2419.2168	---	---
		2437	14.294	2429.9027	2444.1967	---	---
		2462	14.286	2454.8655	2469.1515	---	---
11G	Ant1	2412	17.074	2403.5273	2420.6013	---	---
		2437	17.103	2428.5296	2445.6326	---	---
		2462	17.060	2453.5051	2470.5651	---	---
11N20SISO	Ant1	2412	17.953	2403.1094	2421.0624	---	---
		2437	17.928	2428.0908	2446.0188	---	---
		2462	17.932	2453.0549	2470.9869	---	---



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

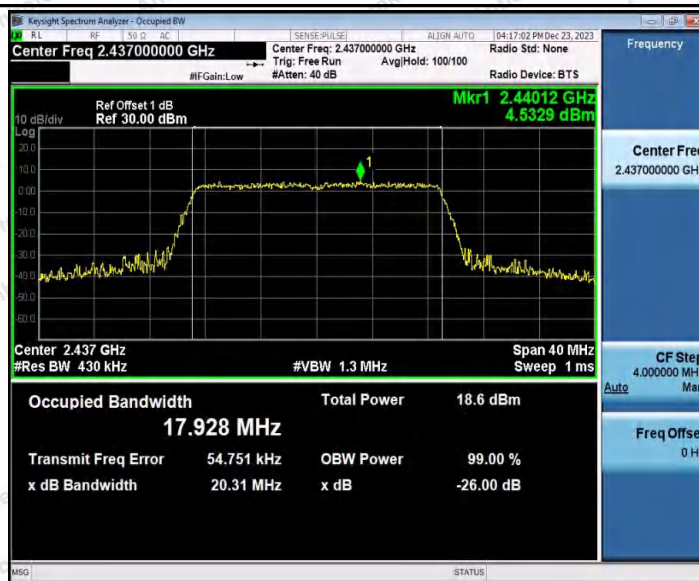
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11N20SISO_Ant1_2462



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Appendix C: Maximum conducted output power

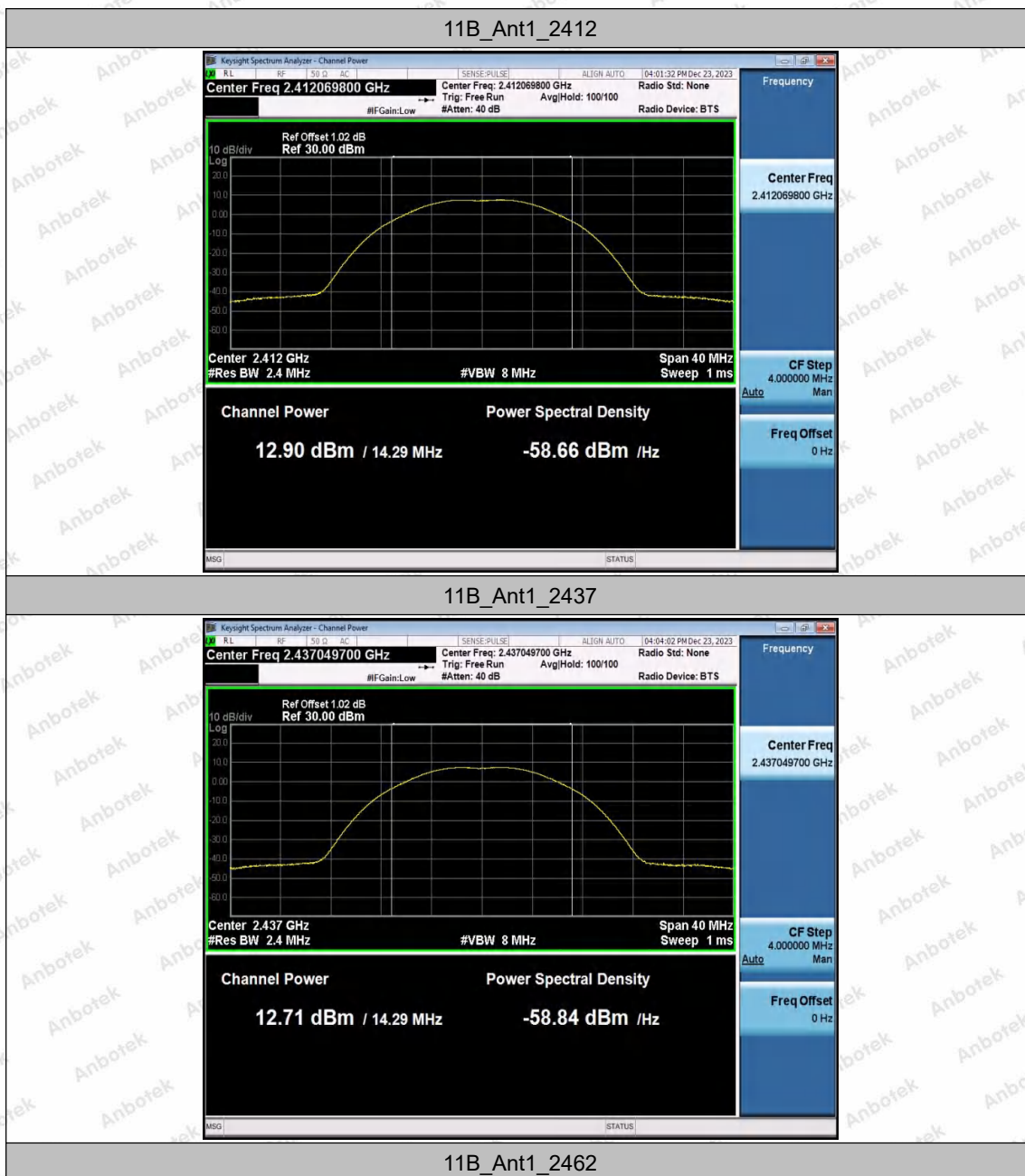
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	12.90	≤30.00
		2437	12.71	≤30.00
		2462	12.67	≤30.00
11G	Ant1	2412	12.97	≤30.00
		2437	12.49	≤30.00
		2462	12.77	≤30.00
11N20SISO	Ant1	2412	12.94	≤30.00
		2437	12.59	≤30.00
		2462	12.38	≤30.00

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



Test Graphs



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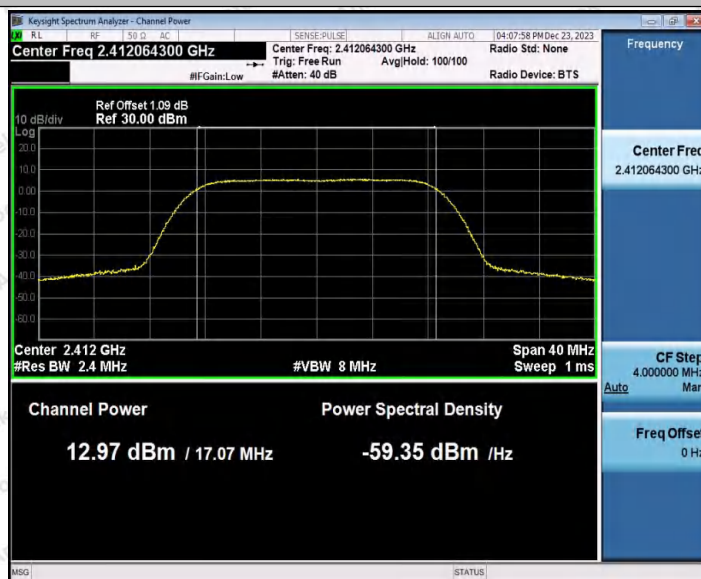


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11G_Ant1_2412



11G_Ant1_2437



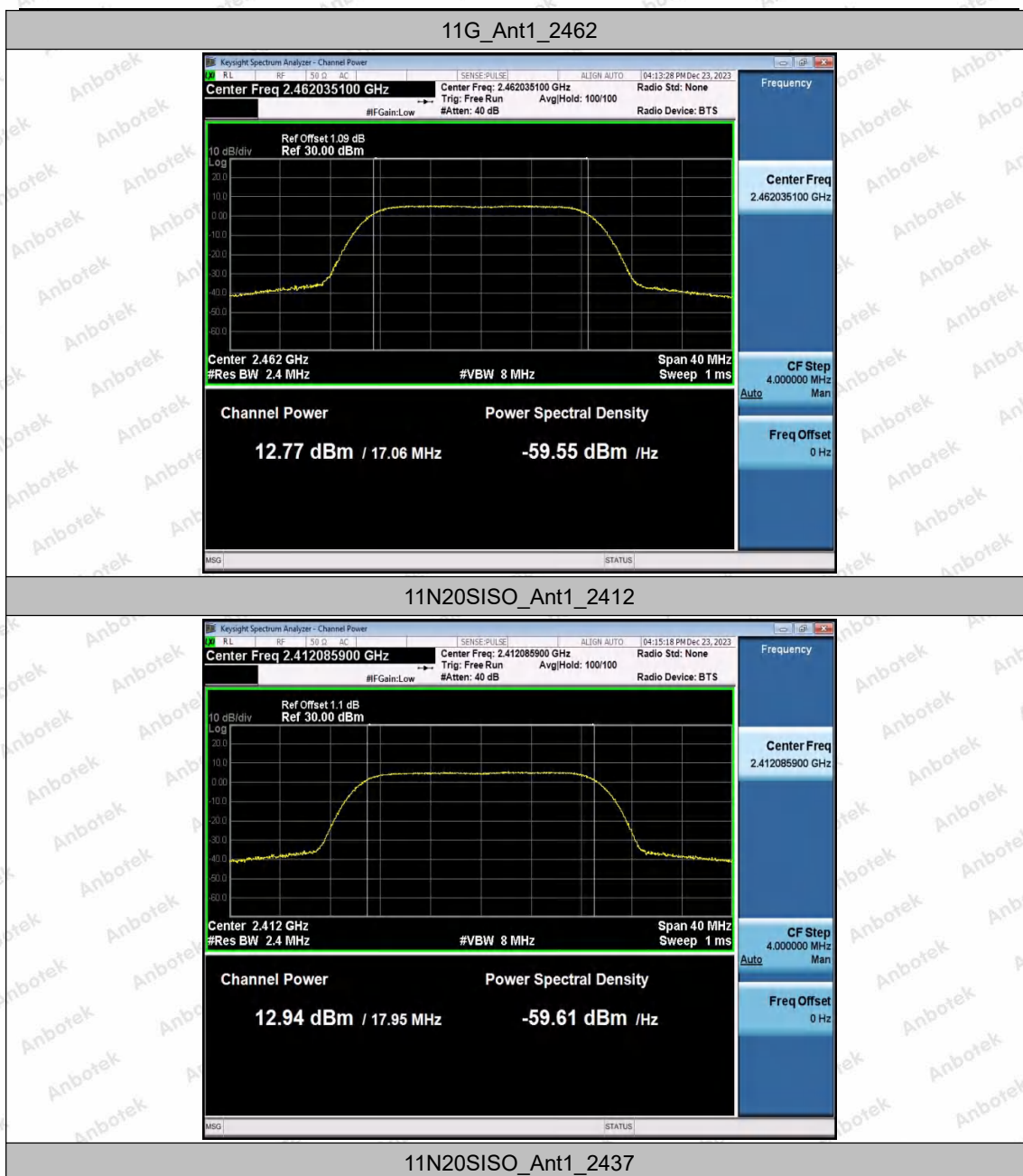
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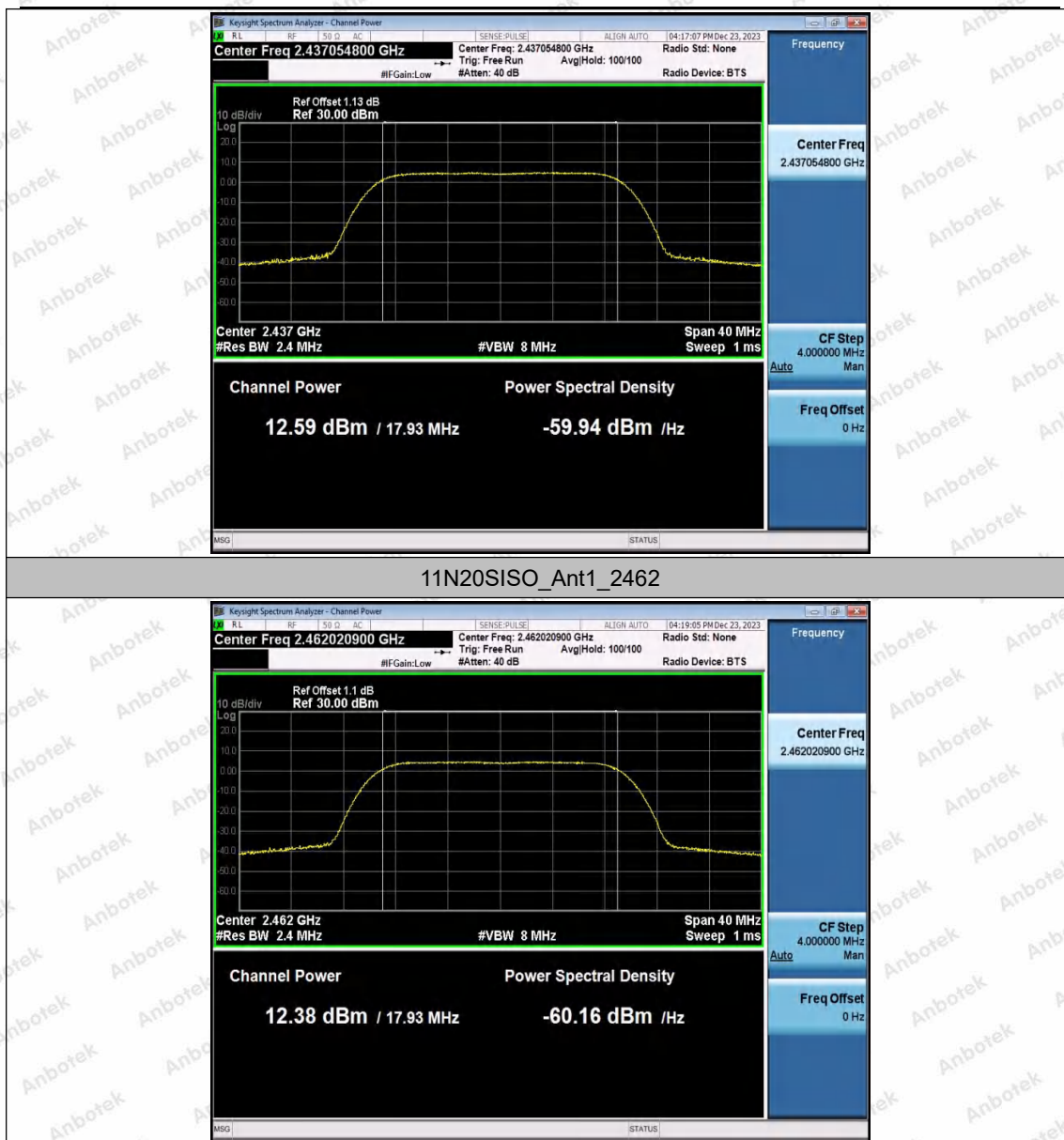
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.09	-19.09	≤8.00	PASS
		2437	-9.67	-19.67	≤8.00	PASS
		2462	-9.84	-19.84	≤8.00	PASS
11G	Ant1	2412	-11.33	-21.33	≤8.00	PASS
		2437	-11.71	-21.71	≤8.00	PASS
		2462	-11.21	-21.21	≤8.00	PASS
11N20SISO	Ant1	2412	-11.07	-21.07	≤8.00	PASS
		2437	-11.67	-21.67	≤8.00	PASS
		2462	-12.12	-22.12	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$



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

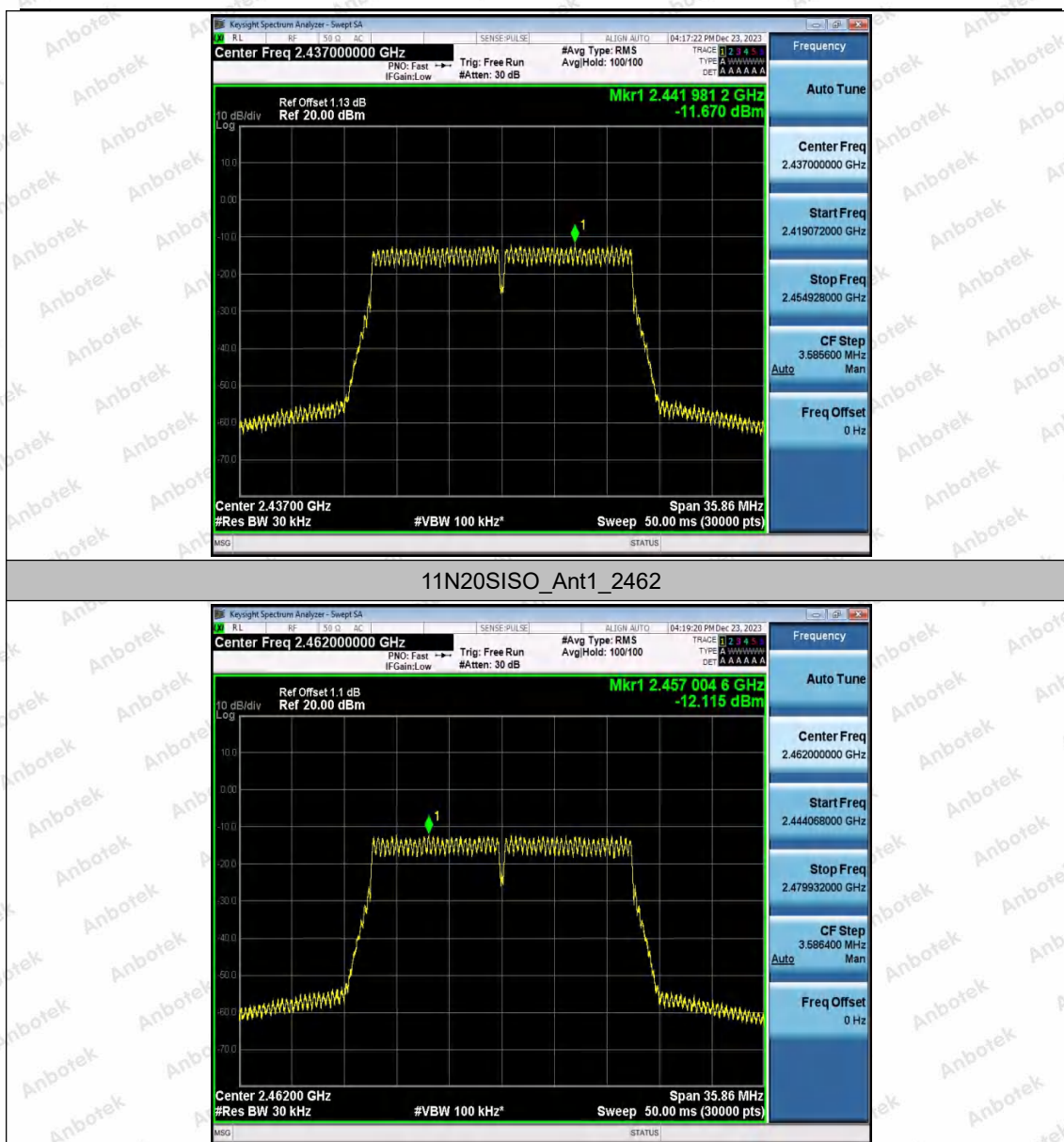
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.39	-46.89	≤-26.61	PASS
		High	2462	3.46	-56.14	≤-26.54	PASS
11G	Ant1	Low	2412	2.29	-39.14	≤-27.71	PASS
		High	2462	1.52	-49.96	≤-28.48	PASS
11N20SISO	Ant1	Low	2412	1.95	-38.23	≤-28.06	PASS
		High	2462	1.63	-49.92	≤-28.37	PASS

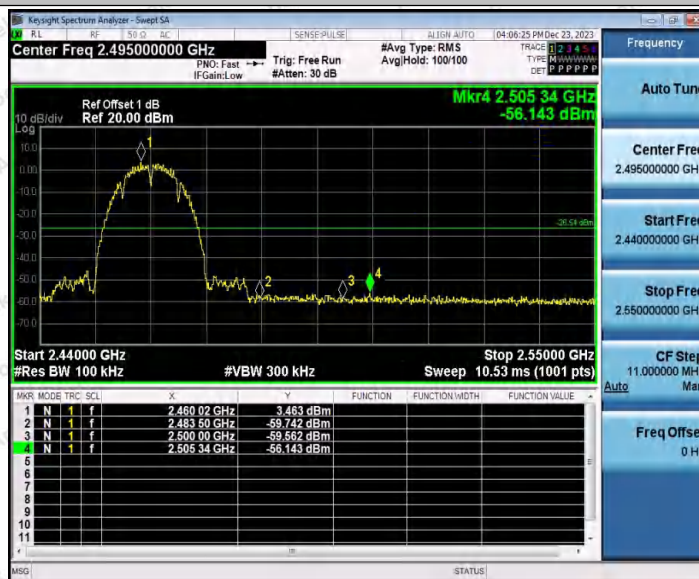


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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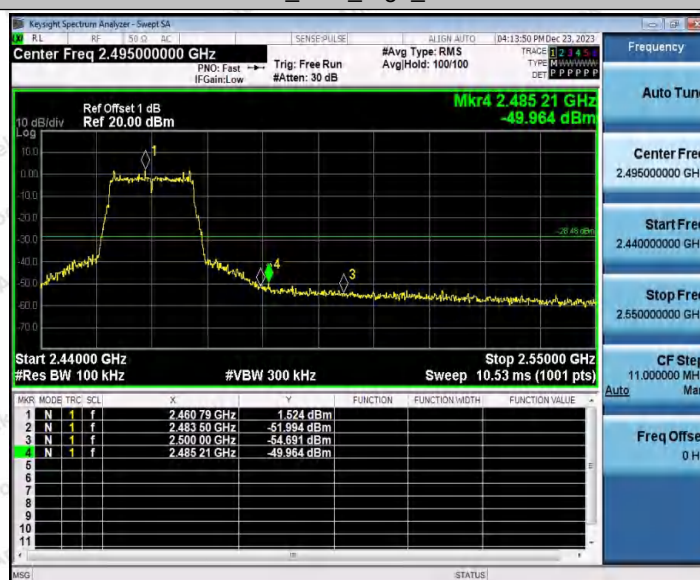


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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

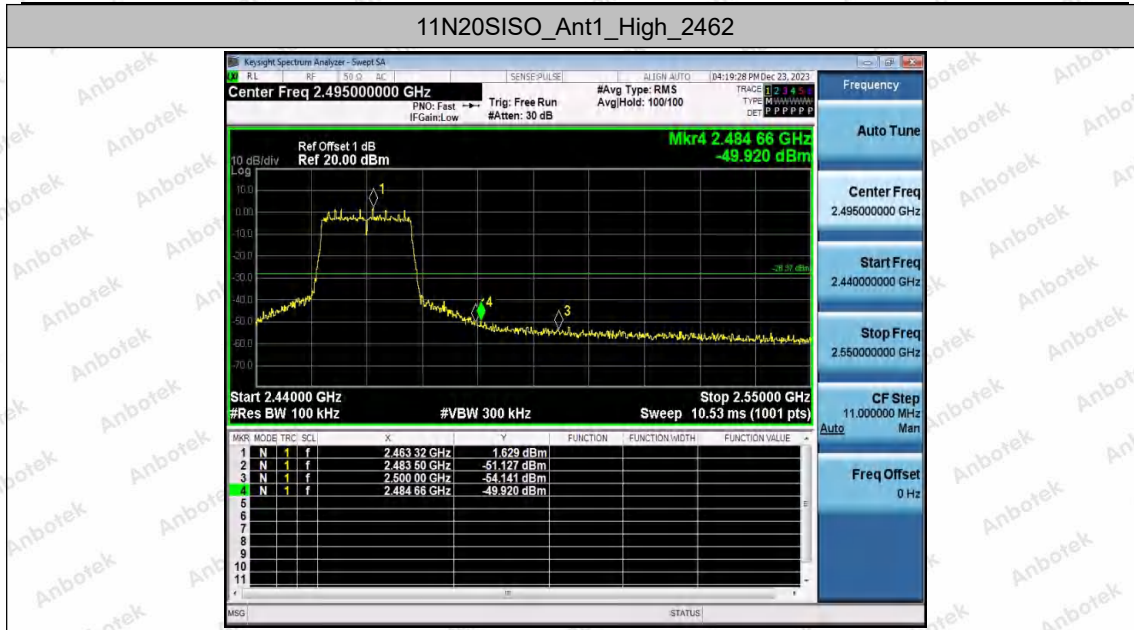


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-68.71	≤-26.74	PASS
			1000~26500	3.26	-53.8	≤-26.74	PASS
		2437	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-68.86	≤-27.04	PASS
			1000~26500	2.96	-53.84	≤-27.04	PASS
		2462	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-69.3	≤-27.81	PASS
			1000~26500	2.19	-53.37	≤-27.81	PASS
11G	Ant1	2412	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-68.82	≤-28.74	PASS
			1000~26500	1.26	-53.23	≤-28.74	PASS
		2437	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-69	≤-29.24	PASS
			1000~26500	0.76	-53.72	≤-29.24	PASS
		2462	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-68.74	≤-28.43	PASS
			1000~26500	1.57	-54.14	≤-28.43	PASS
11N20SISO	Ant1	2412	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-68.18	≤-31.64	PASS
			1000~26500	-1.64	-53.97	≤-31.64	PASS
		2437	Reference	0.84	0.84	---	PASS
			30~1000	0.84	-46.76	≤-29.16	PASS
			1000~26500	0.84	-53.79	≤-29.16	PASS
		2462	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-69.07	≤-31.71	PASS
			1000~26500	-1.71	-53.97	≤-31.71	PASS

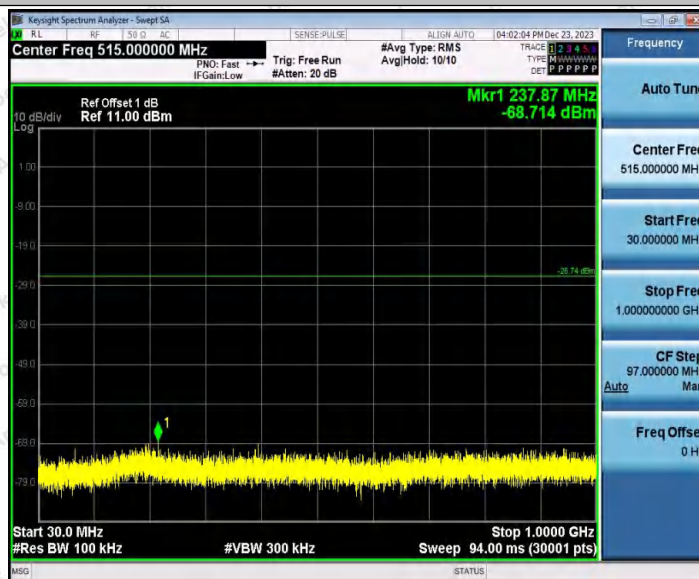


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

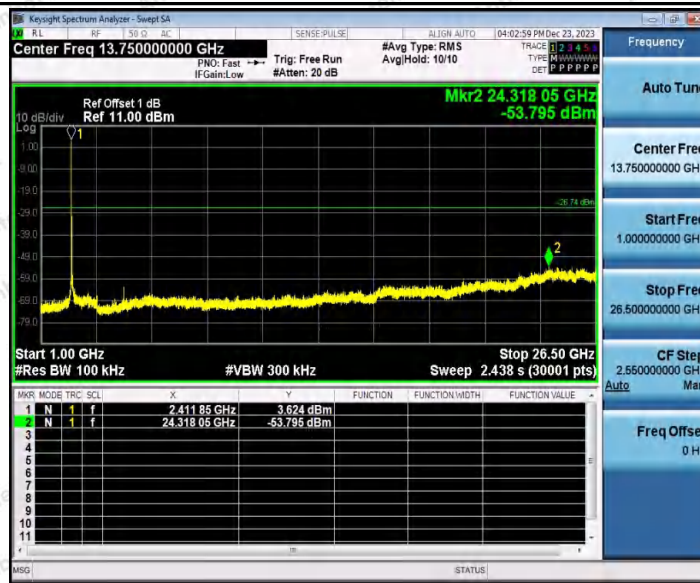
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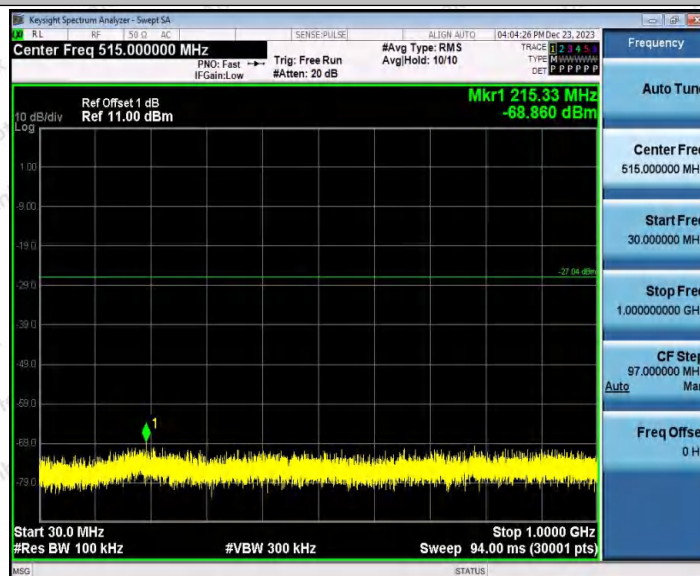




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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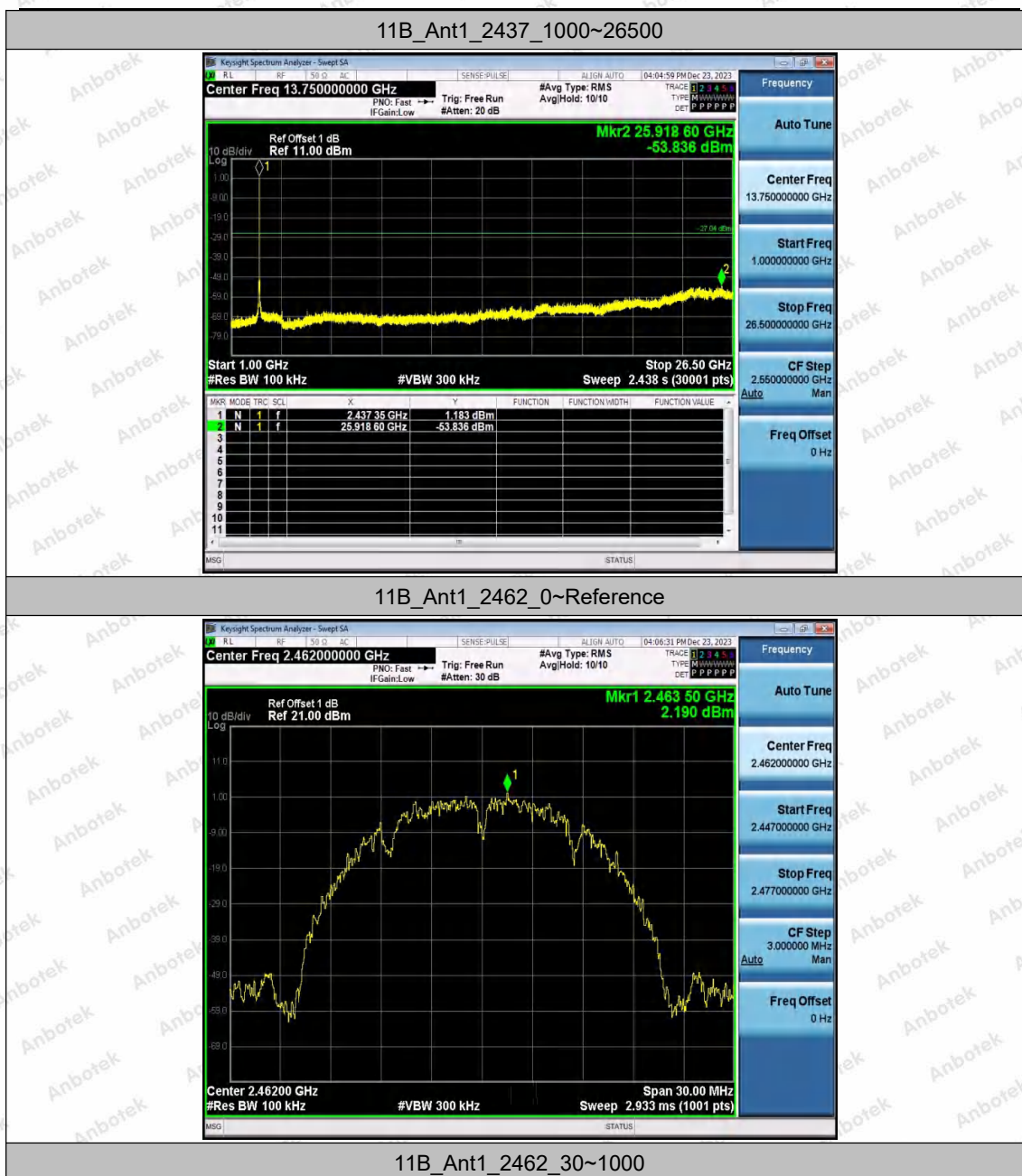


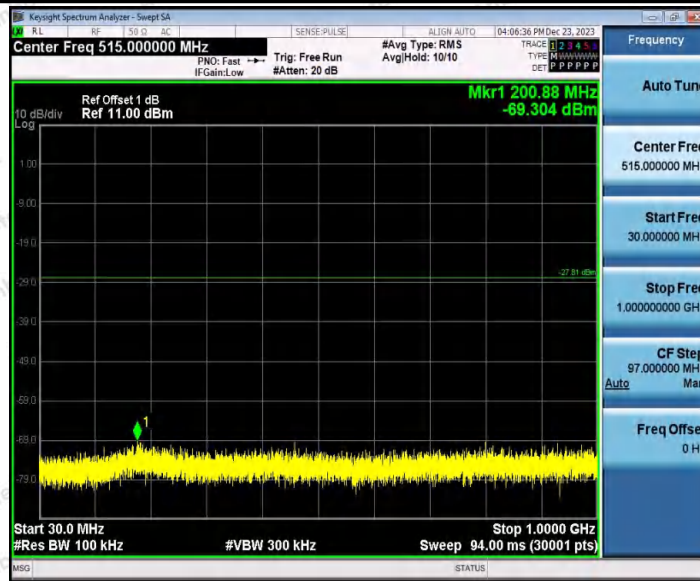
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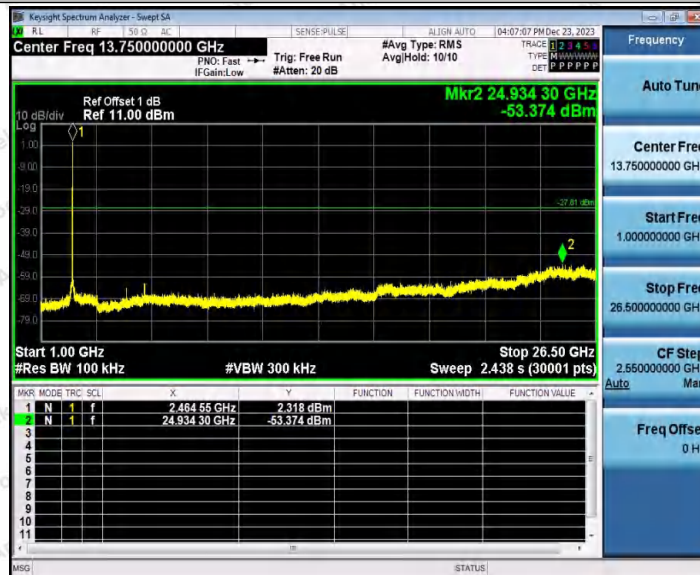
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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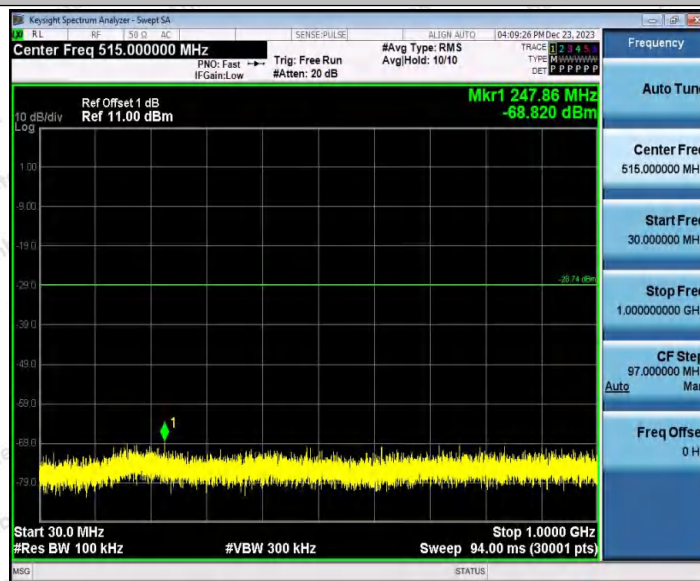
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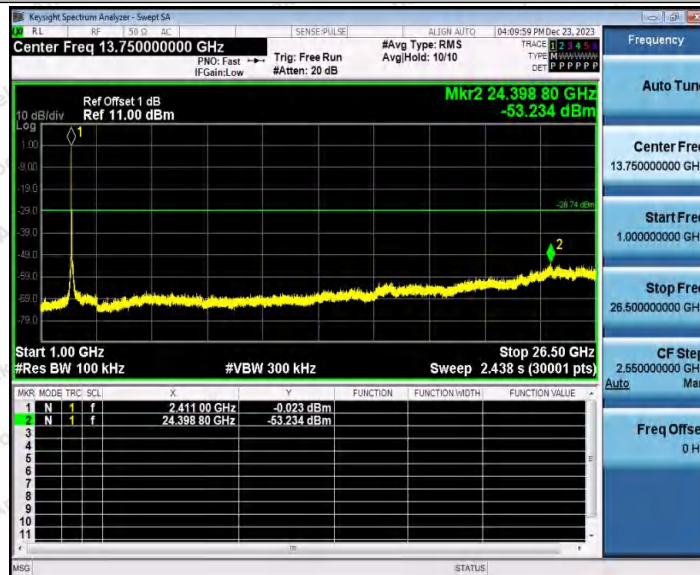
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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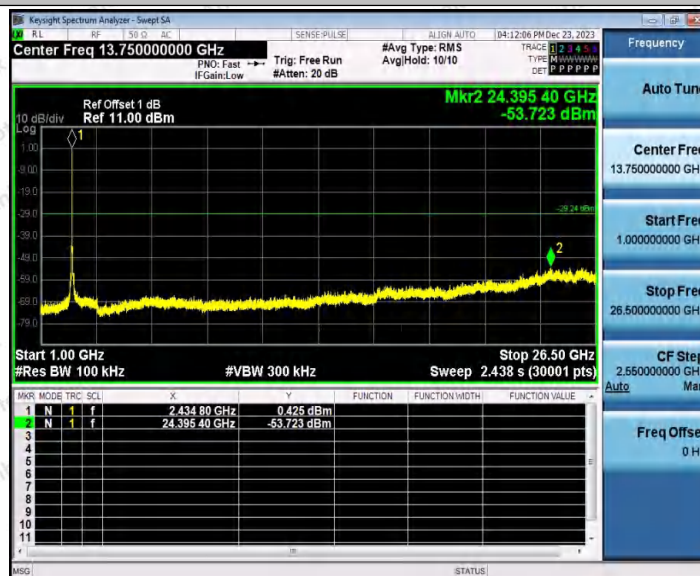




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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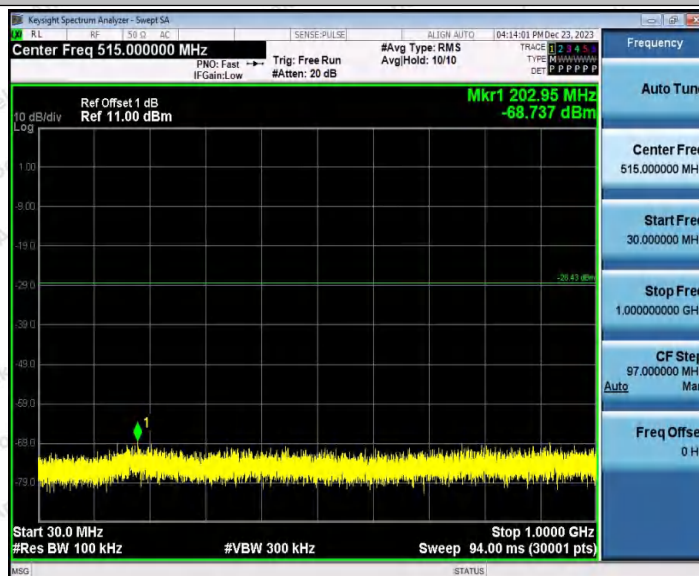
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11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

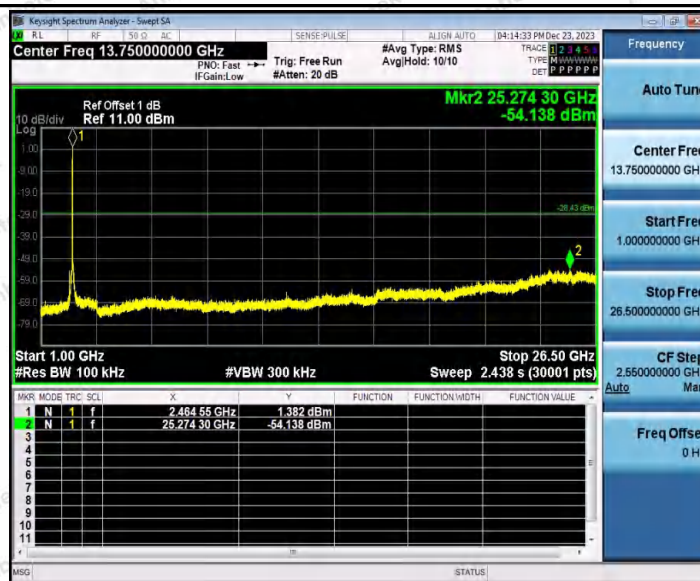
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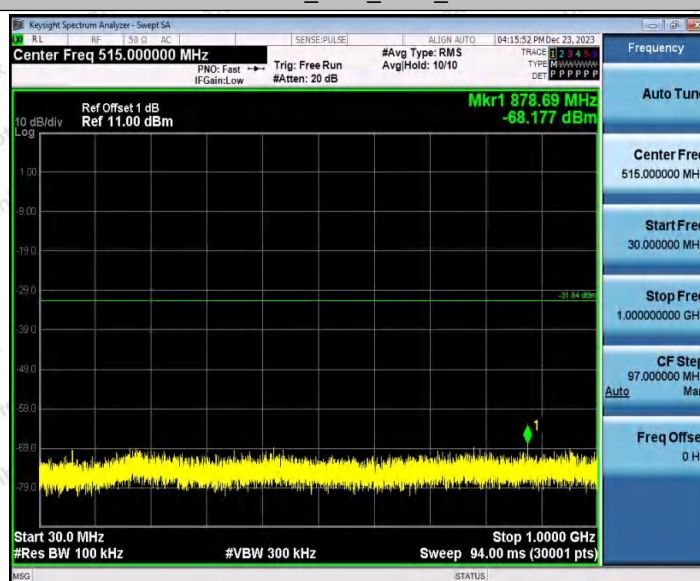




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

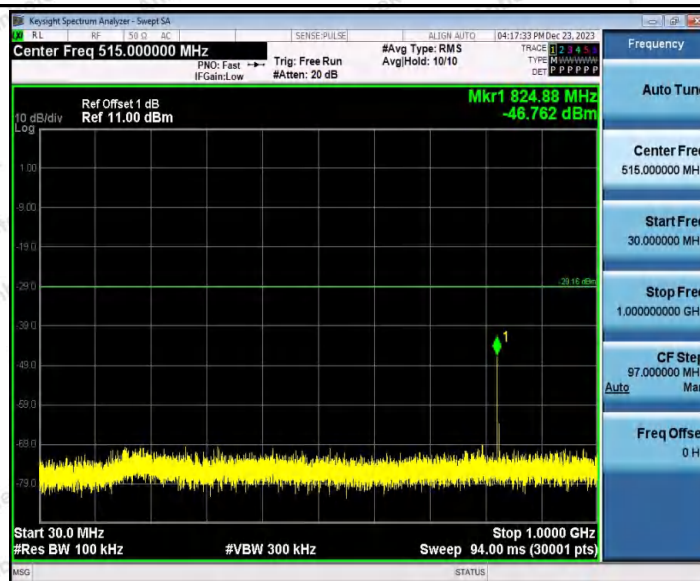
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



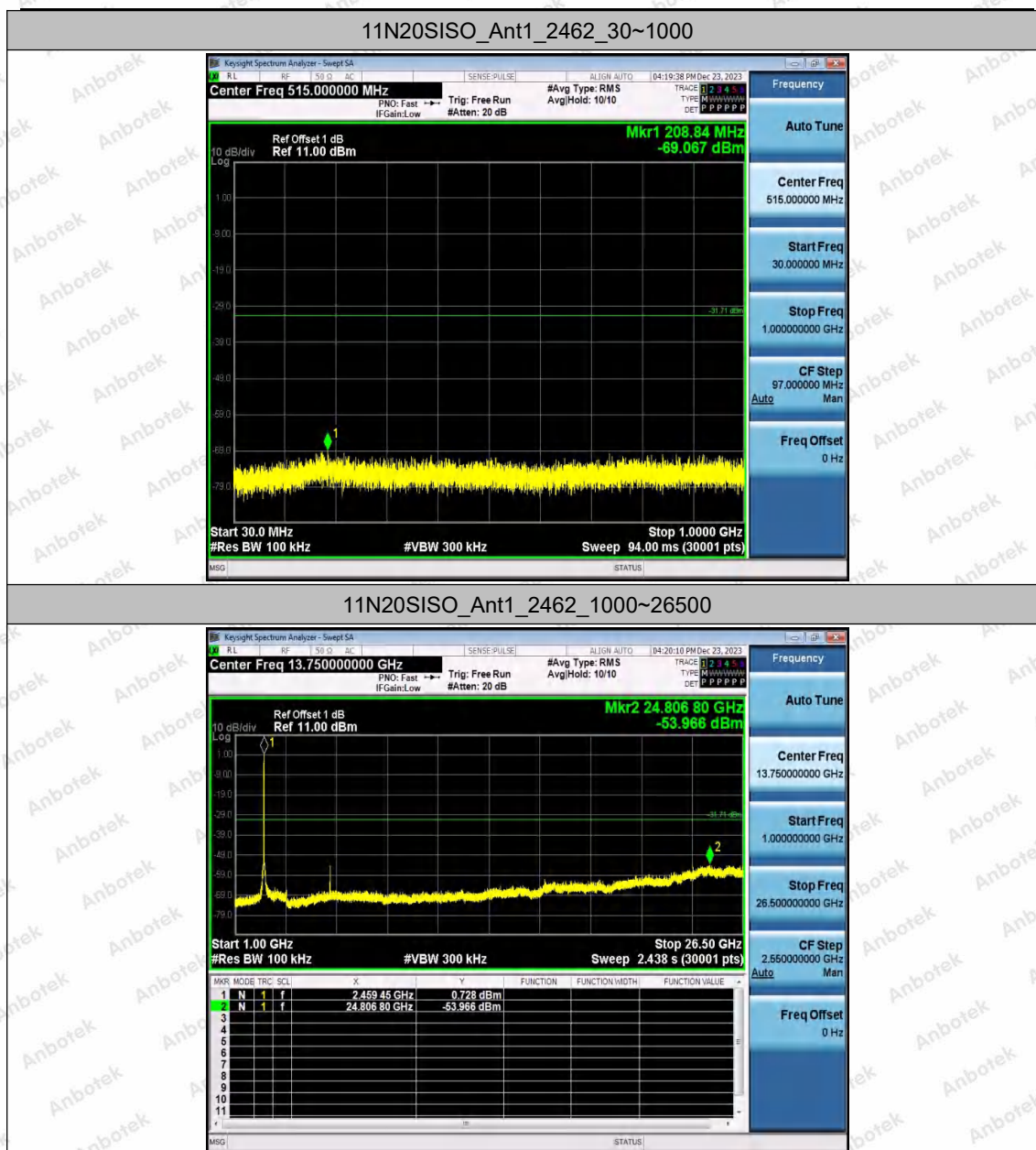
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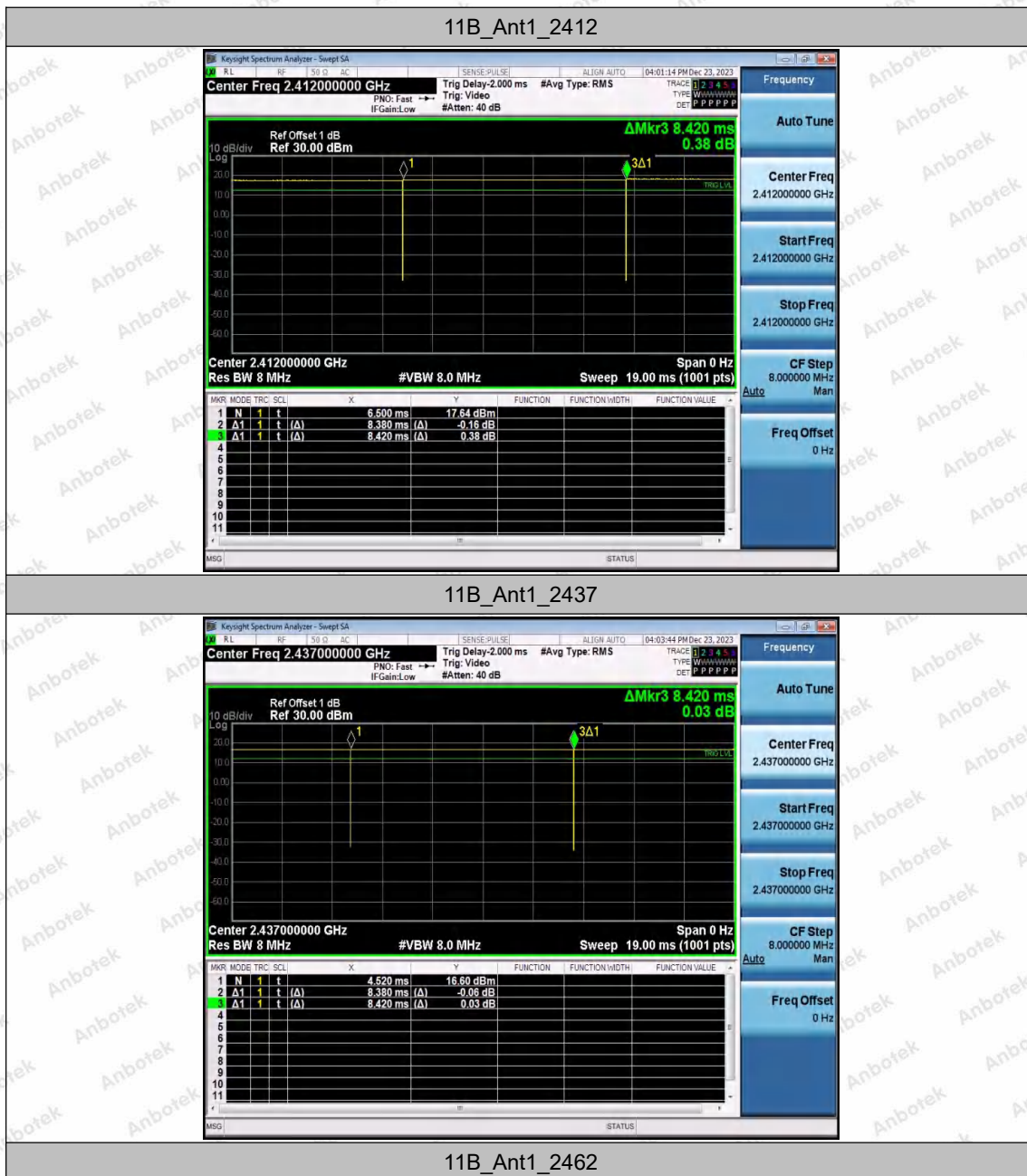
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.42	99.52	0.02
		2437	8.38	8.42	99.52	0.02
		2462	8.39	8.41	99.76	0.01
11G	Ant1	2412	1.40	1.43	97.90	0.09
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.42	97.89	0.09
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.30	1.34	97.01	0.13
		2462	1.30	1.33	97.74	0.10



Test Graphs



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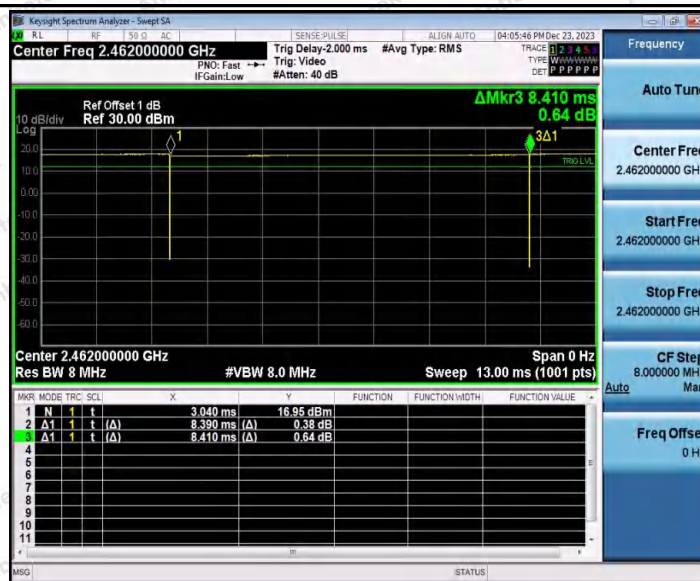


Hotline

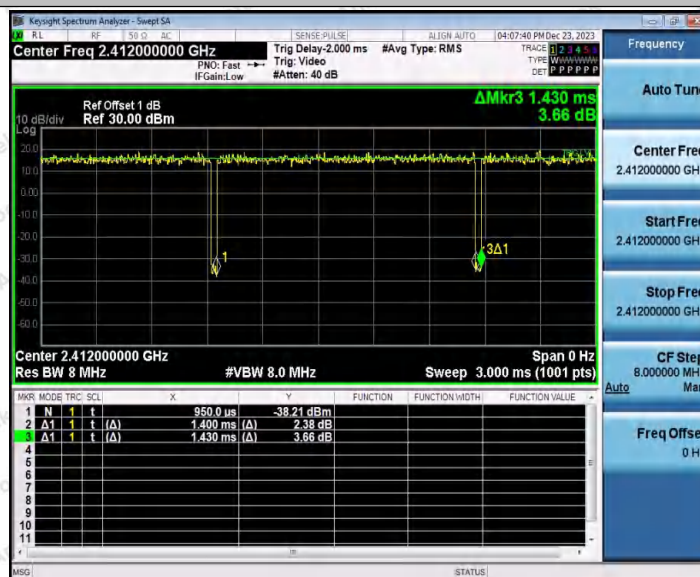
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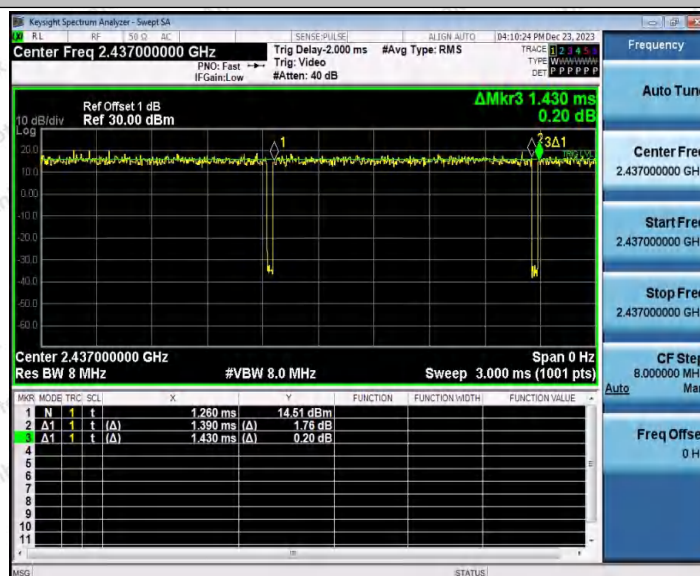




11G_Ant1_2412



11G_Ant1_2437



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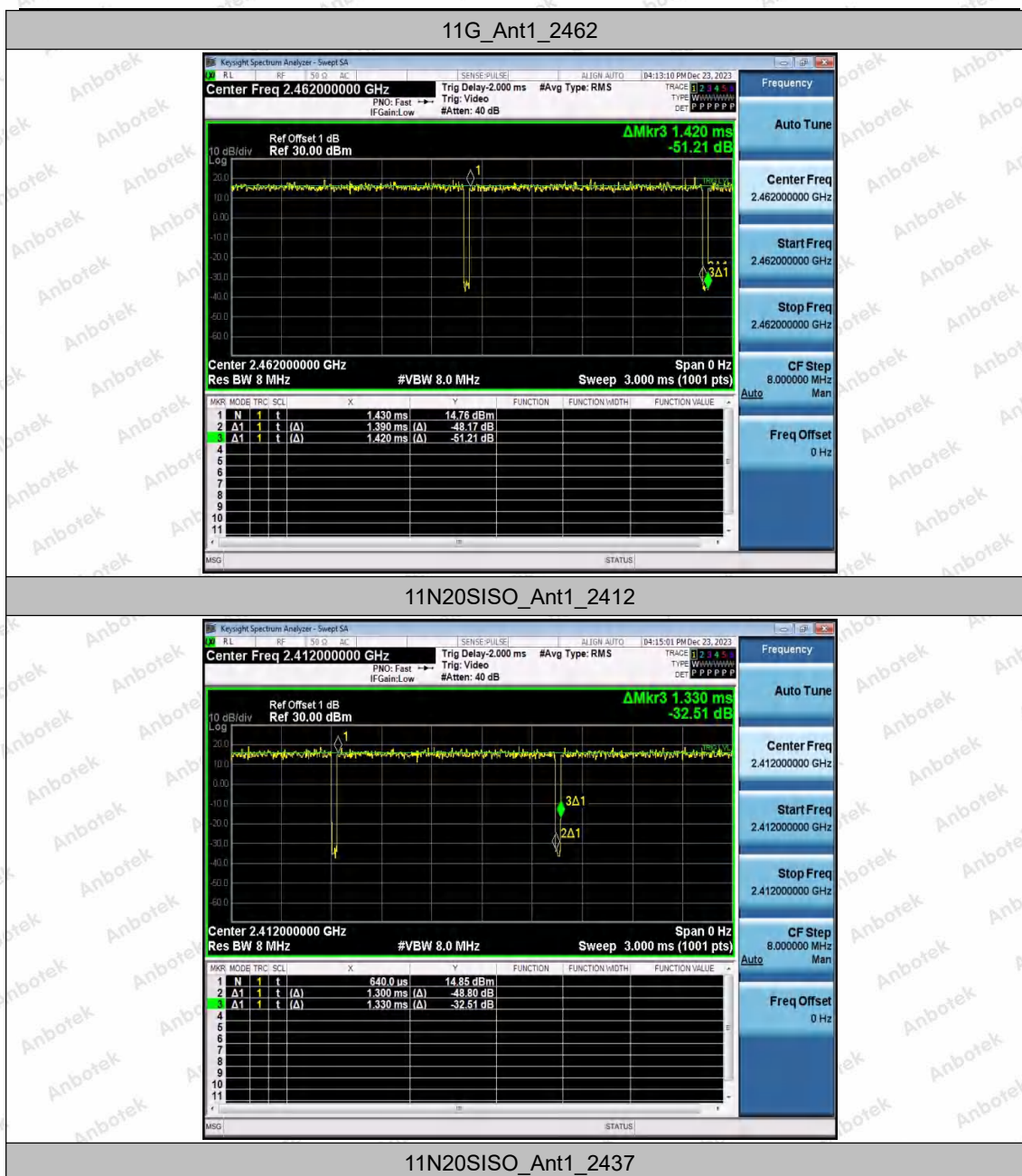


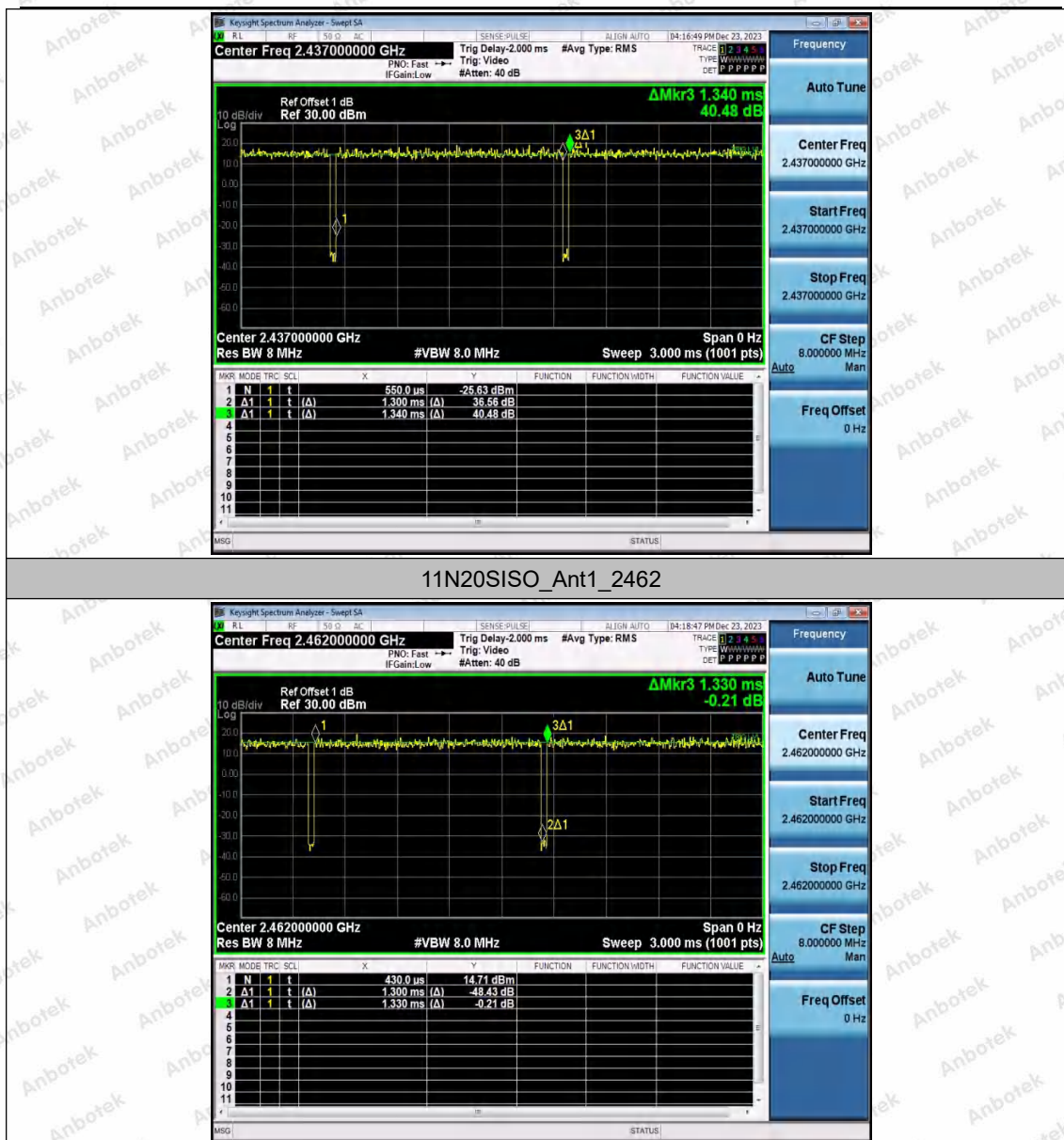
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