

Appendix Test Data

Report No.:	18220WC40023501	Test Sample No.:	1-2-2
Start Test Date:	2024.2.24	Finish Test Date:	2024.2.24
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
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	9.560	2407.480	2417.040	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.520	2453.240	2470.760	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

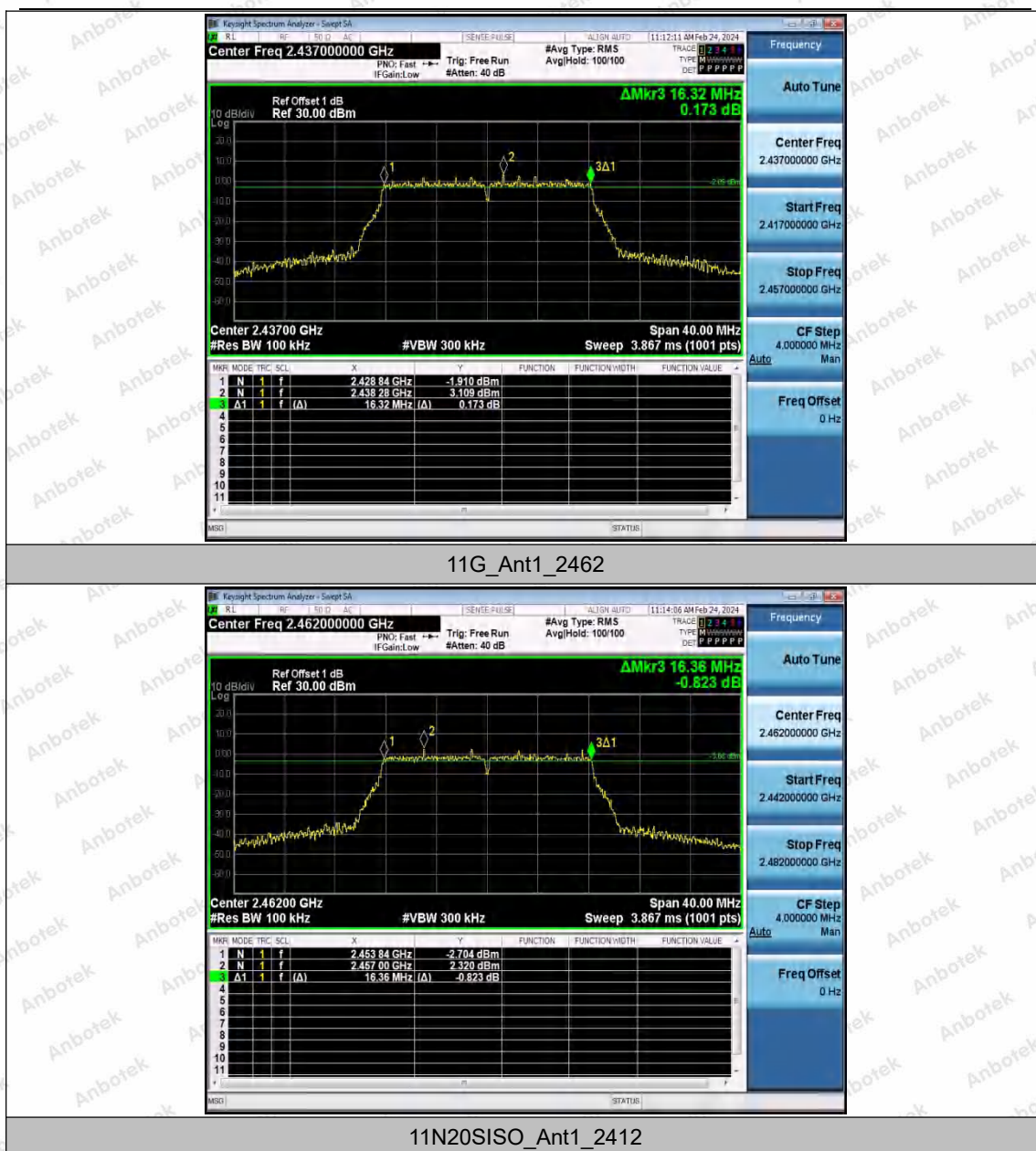
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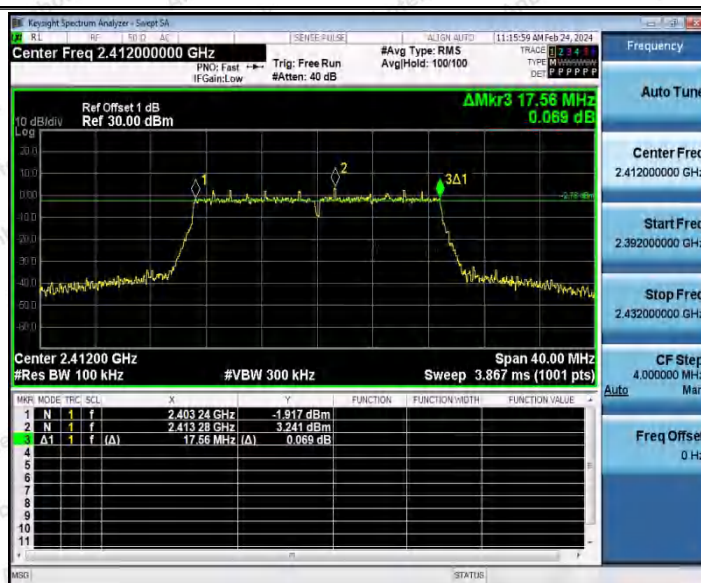
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

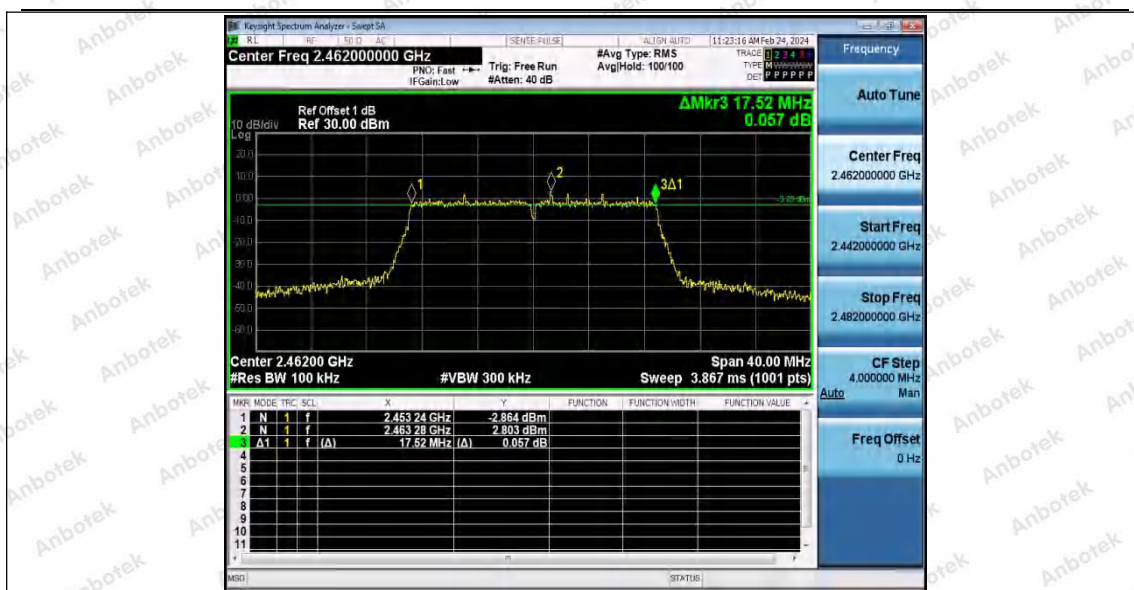
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.275	2404.9243	2419.1993	---	---
		2437	14.276	2429.9087	2444.1847	---	---
		2462	14.274	2454.8723	2469.1463	---	---
11G	Ant1	2412	17.051	2403.5453	2420.5963	---	---
		2437	17.083	2428.4867	2445.5697	---	---
		2462	17.088	2453.4715	2470.5595	---	---
11N20SISO	Ant1	2412	17.989	2403.0327	2421.0217	---	---
		2437	18.006	2428.0489	2446.0549	---	---
		2462	17.960	2453.0692	2471.0292	---	---



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462





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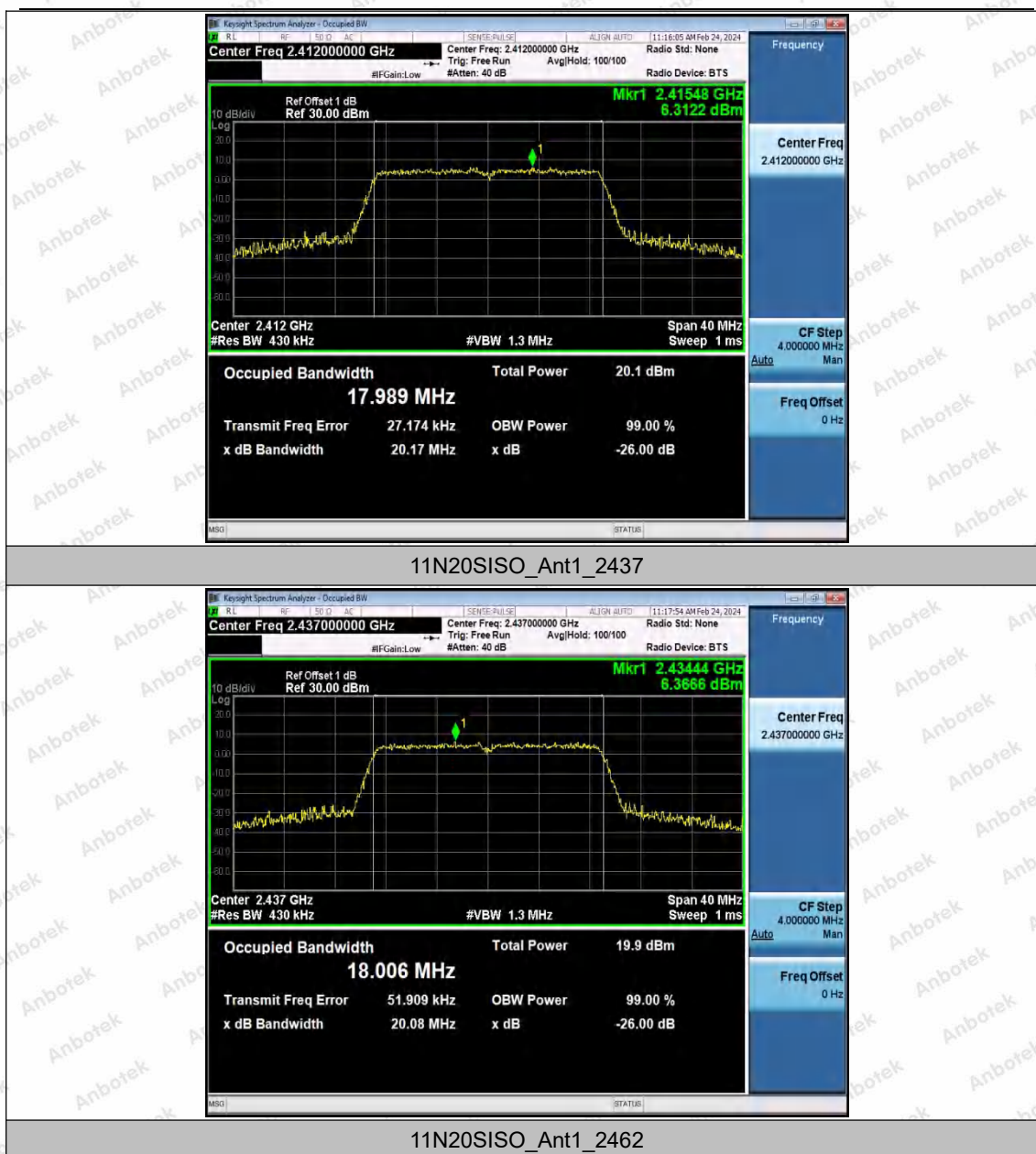
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Appendix C: Maximum conducted output power

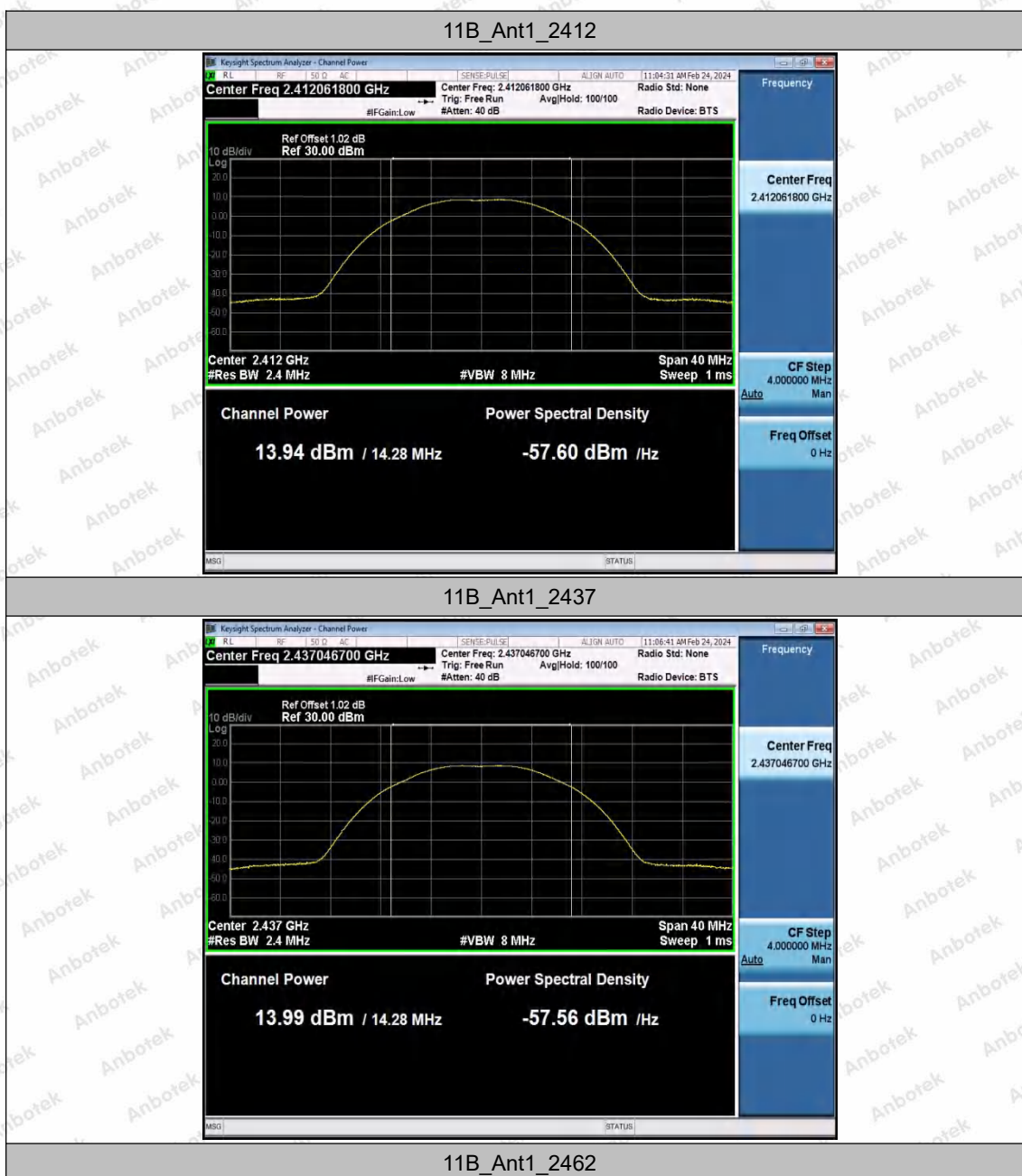
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.94	≤30.00
		2437	13.99	≤30.00
		2462	13.97	≤30.00
11G	Ant1	2412	13.96	≤30.00
		2437	13.89	≤30.00
		2462	13.59	≤30.00
11N20SISO	Ant1	2412	13.93	≤30.00
		2437	13.78	≤30.00
		2462	13.55	≤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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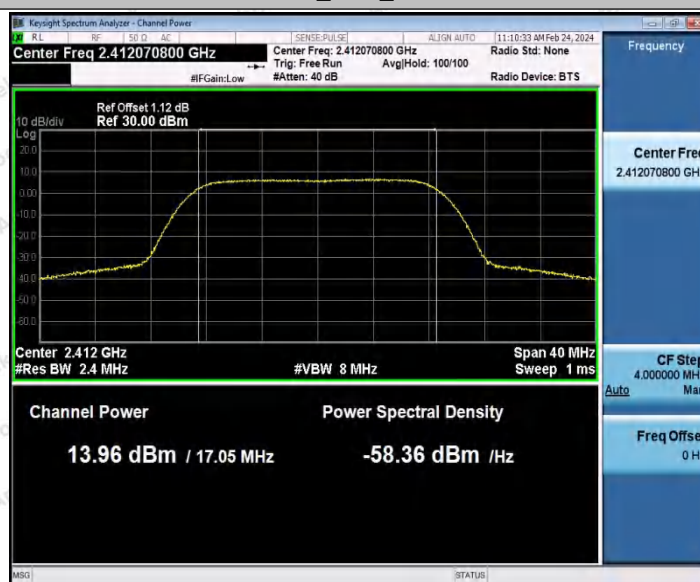


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11G_Ant1_2412



11G_Ant1_2437

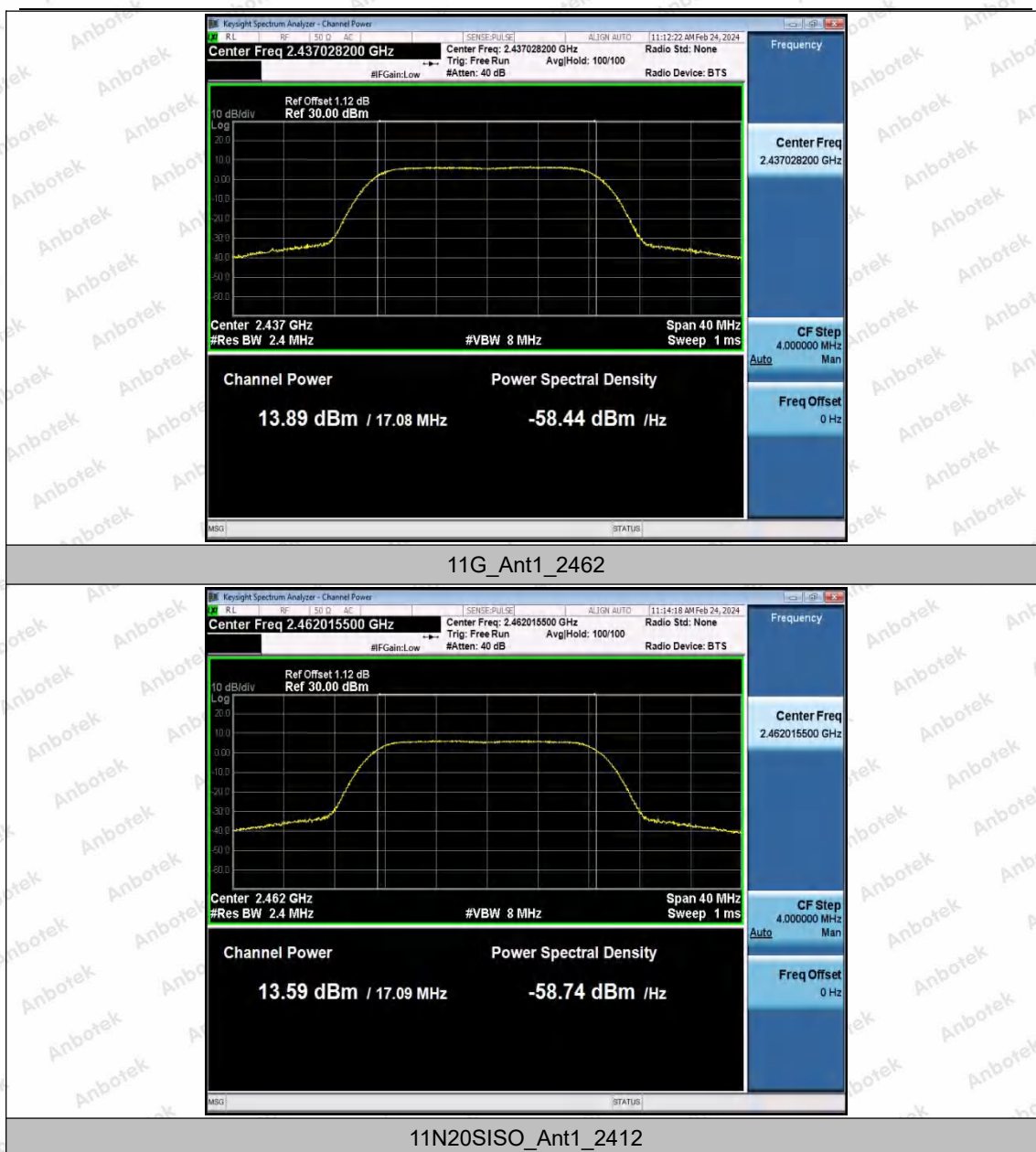
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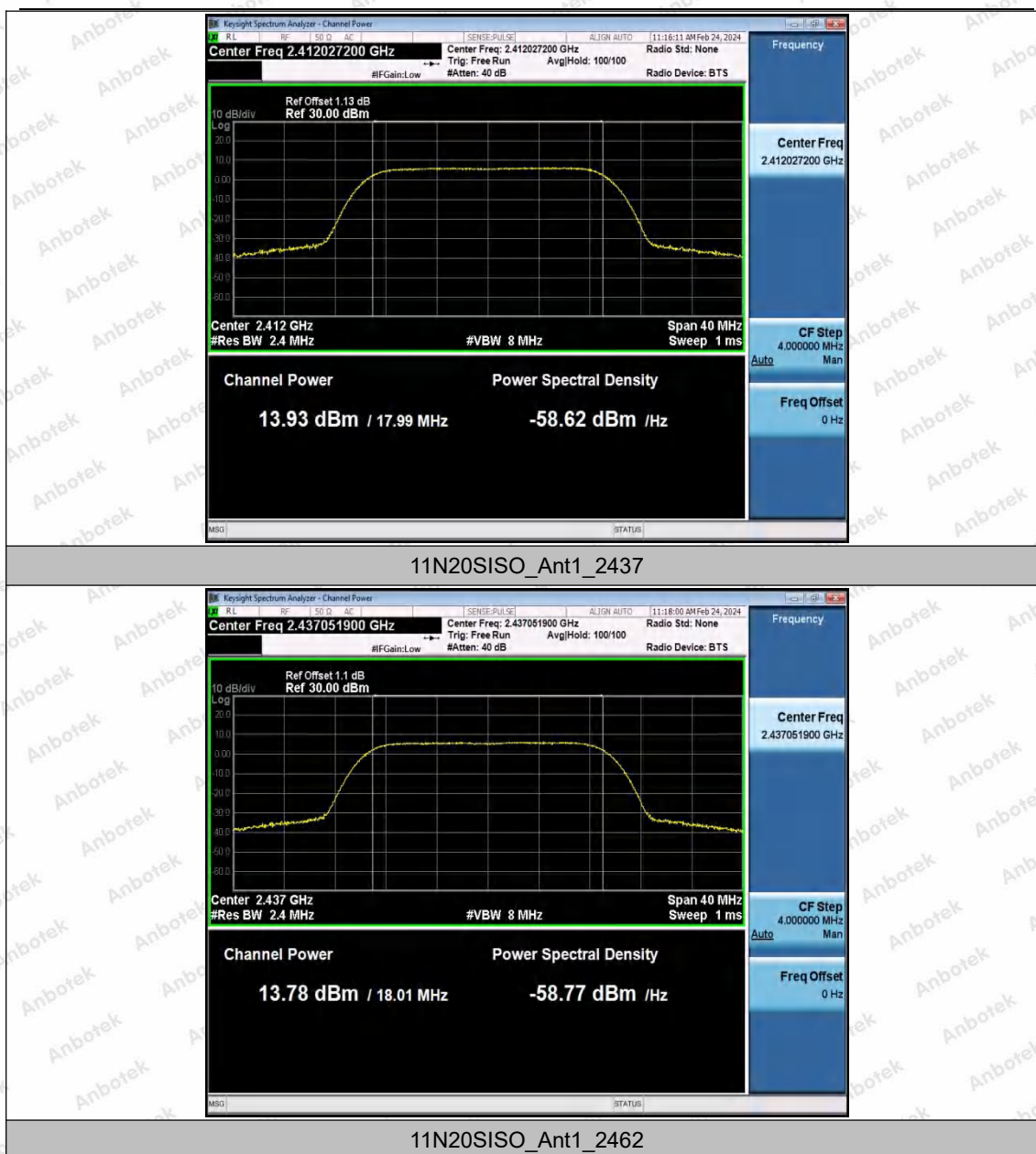
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.41	-18.41	≤8.00	PASS
		2437	-8.61	-18.61	≤8.00	PASS
		2462	-8.12	-18.12	≤8.00	PASS
11G	Ant1	2412	-10.12	-20.12	≤8.00	PASS
		2437	-10.19	-20.19	≤8.00	PASS
		2462	-10.44	-20.44	≤8.00	PASS
11N20SISO	Ant1	2412	-10.40	-20.40	≤8.00	PASS
		2437	-10.82	-20.82	≤8.00	PASS
		2462	-10.61	-20.61	≤8.00	PASS

Note:

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



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

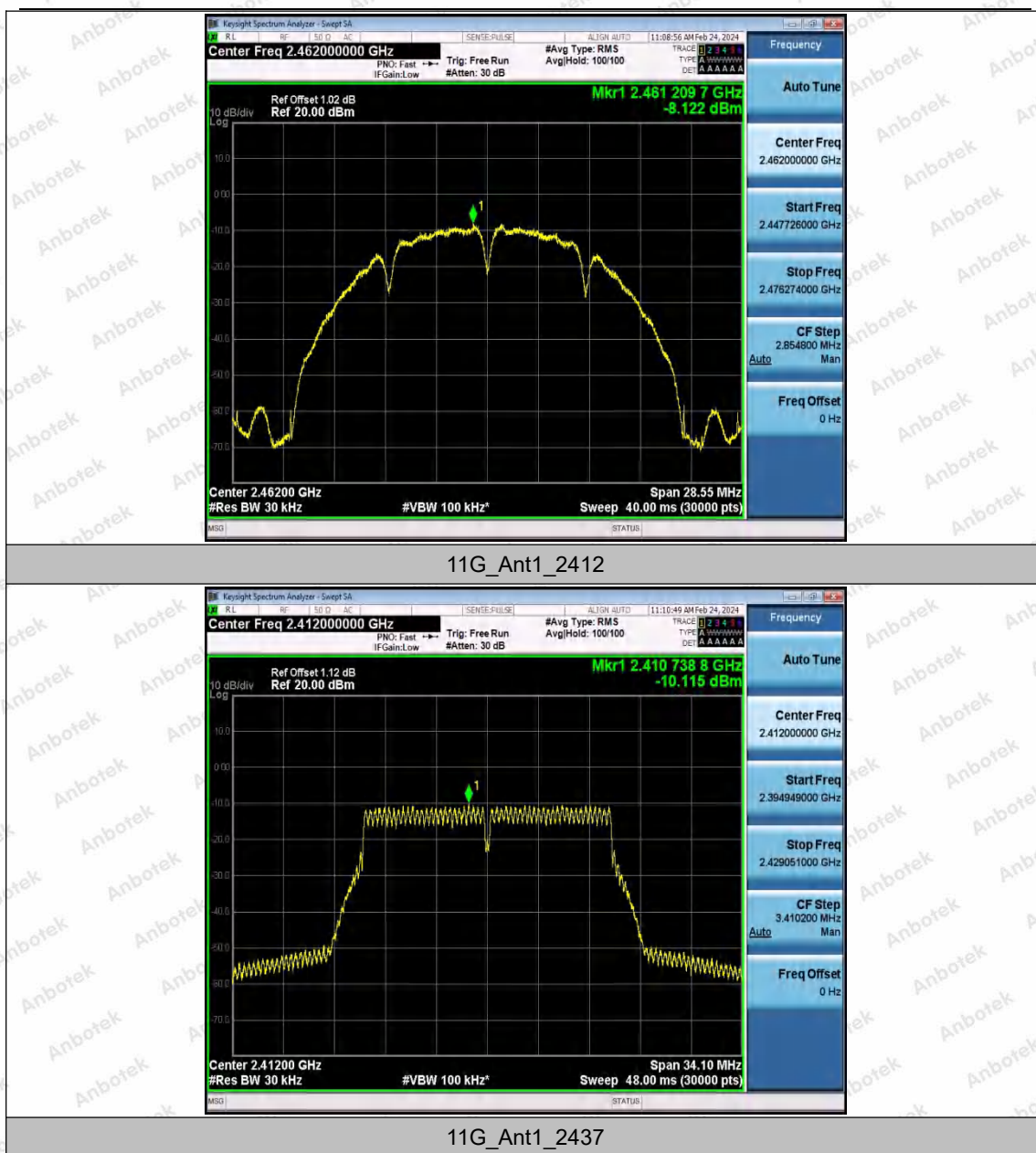
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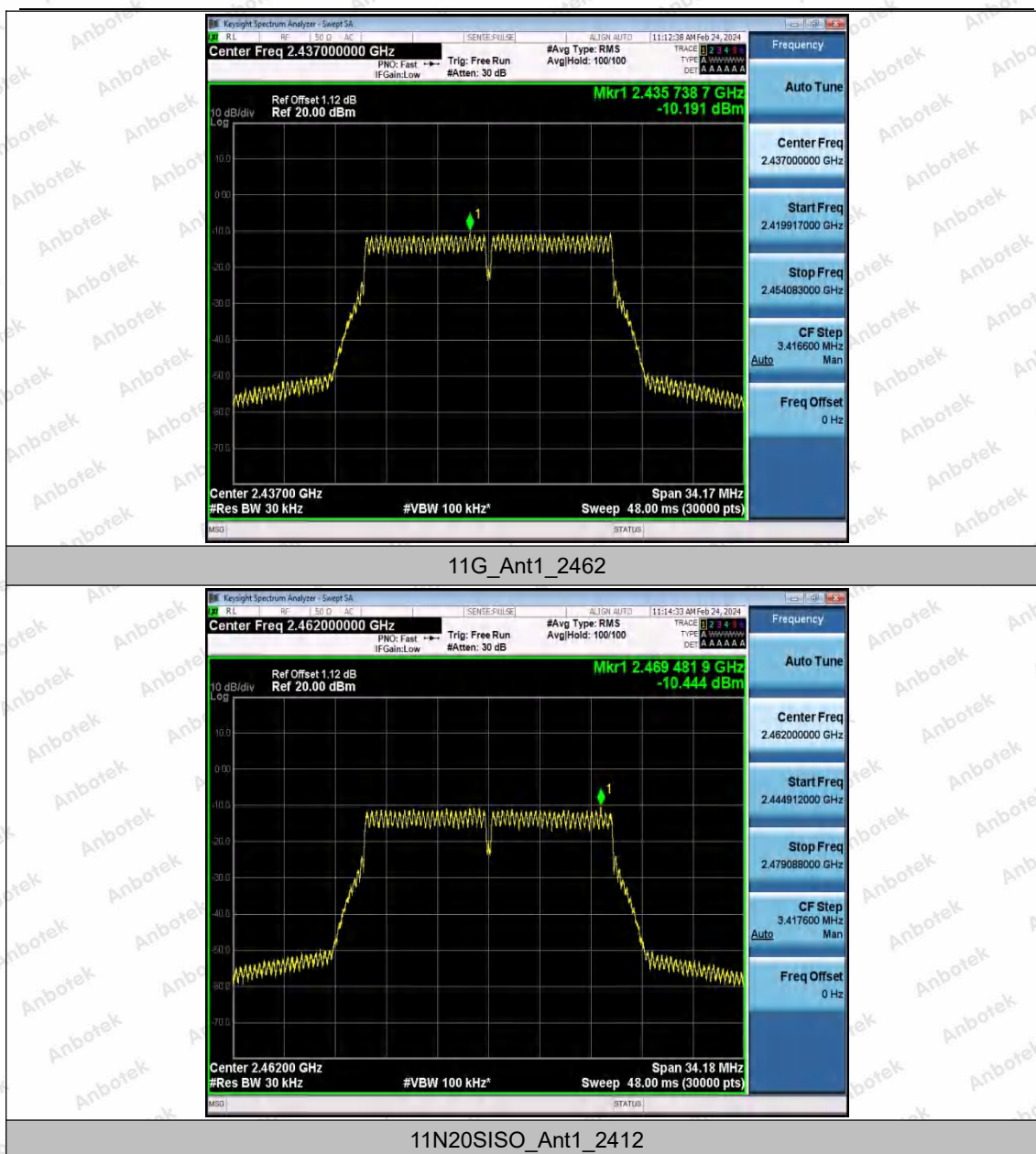
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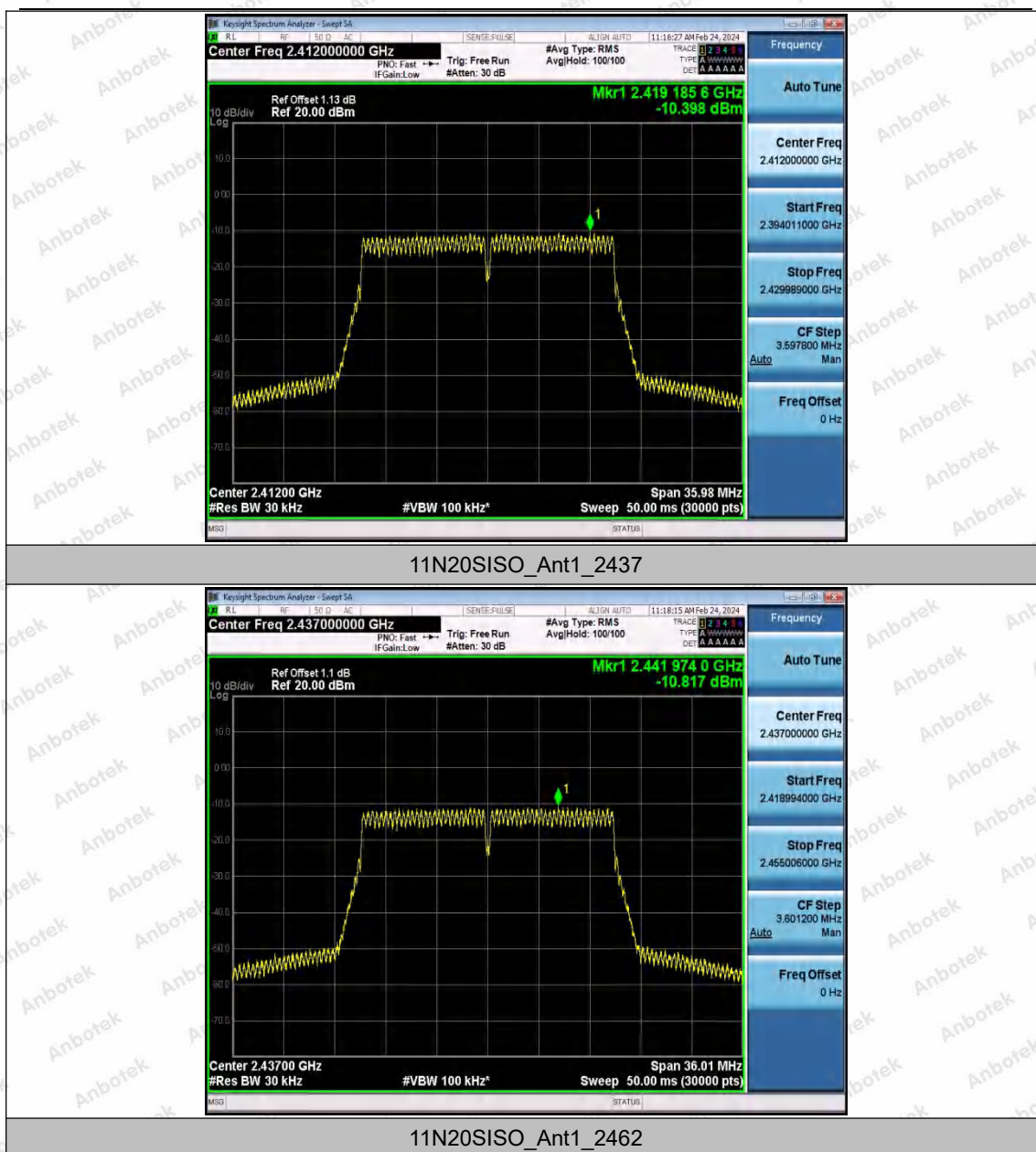
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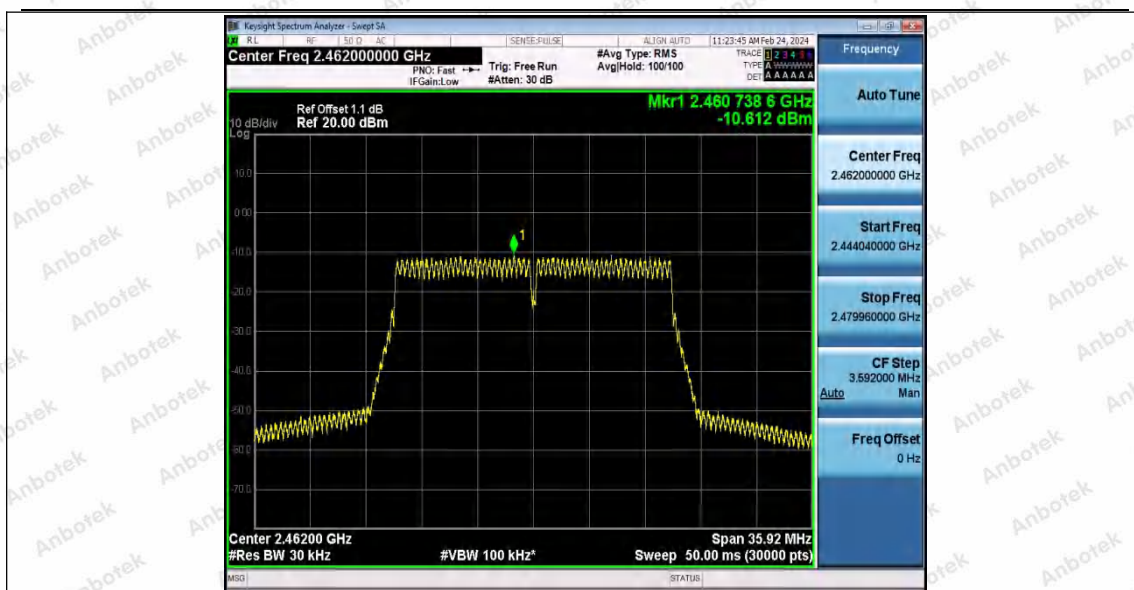
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Appendix E: Band edge measurements

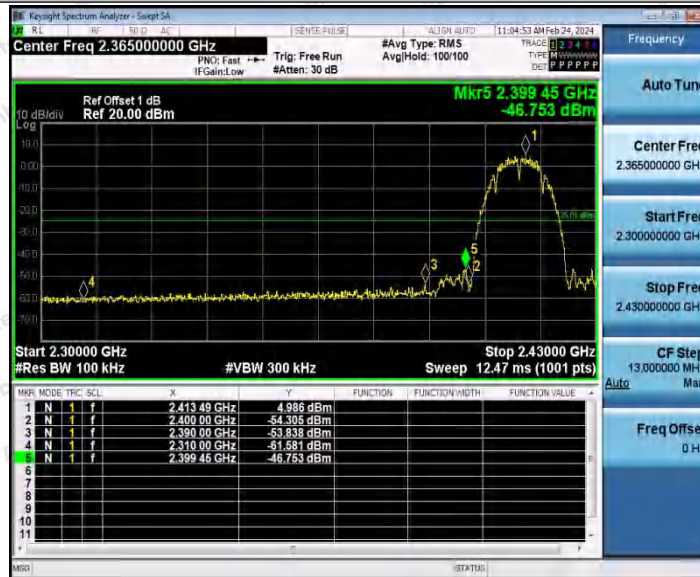
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.99	-46.75	≤-25.01	PASS
		High	2462	4.55	-54.93	≤-25.45	PASS
11G	Ant1	Low	2412	2.91	-34.06	≤-27.09	PASS
		High	2462	2.40	-47.77	≤-27.6	PASS
11N20SISO	Ant1	Low	2412	2.93	-34.83	≤-27.07	PASS
		High	2462	2.93	-46.69	≤-27.07	PASS

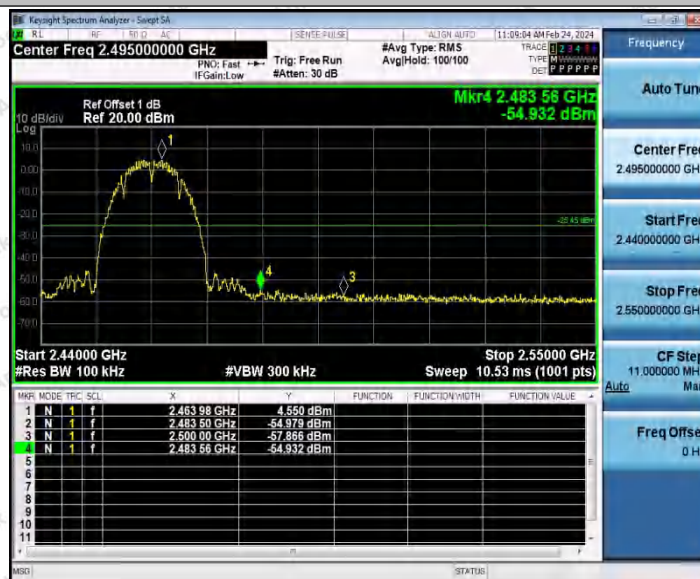


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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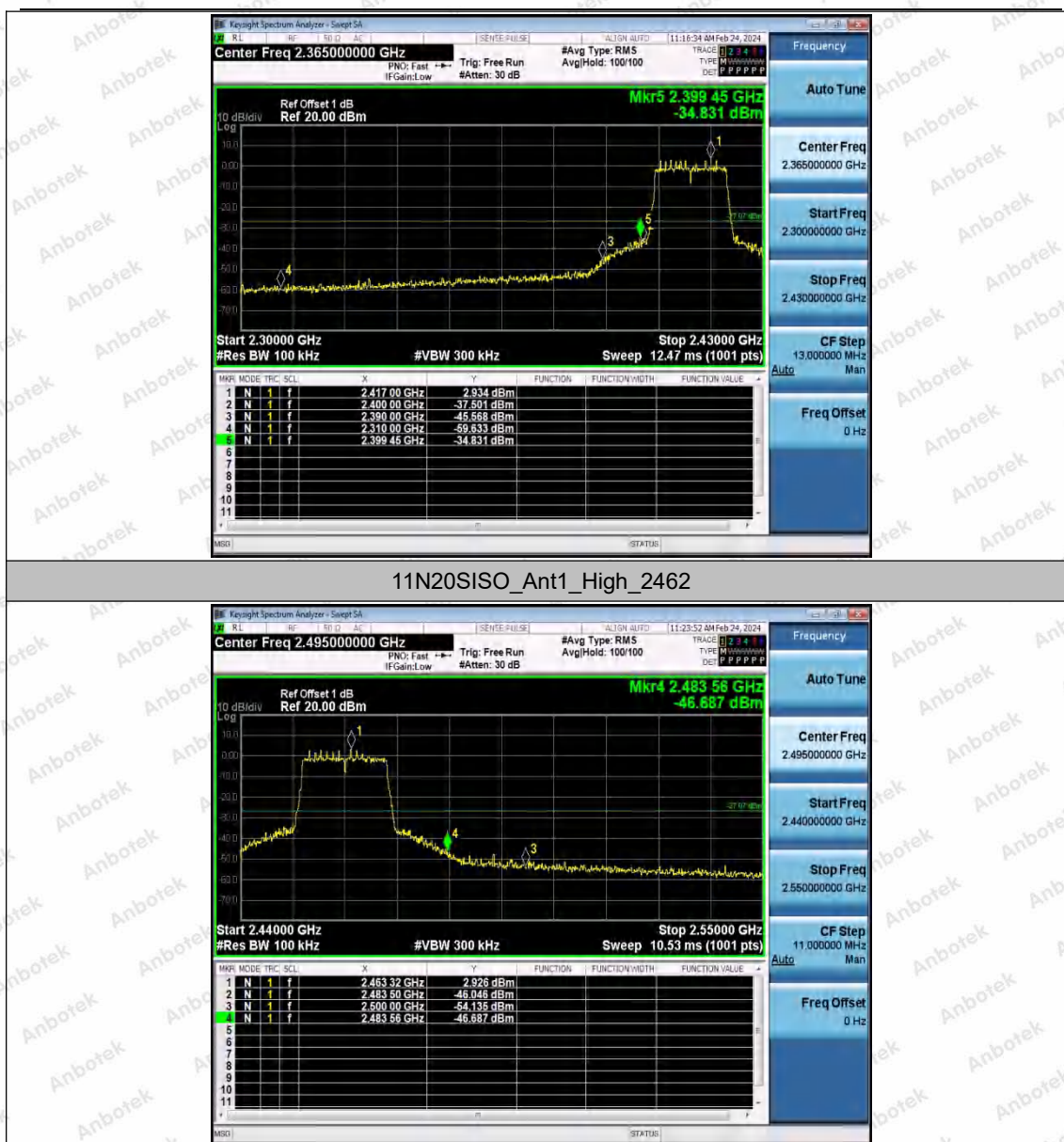
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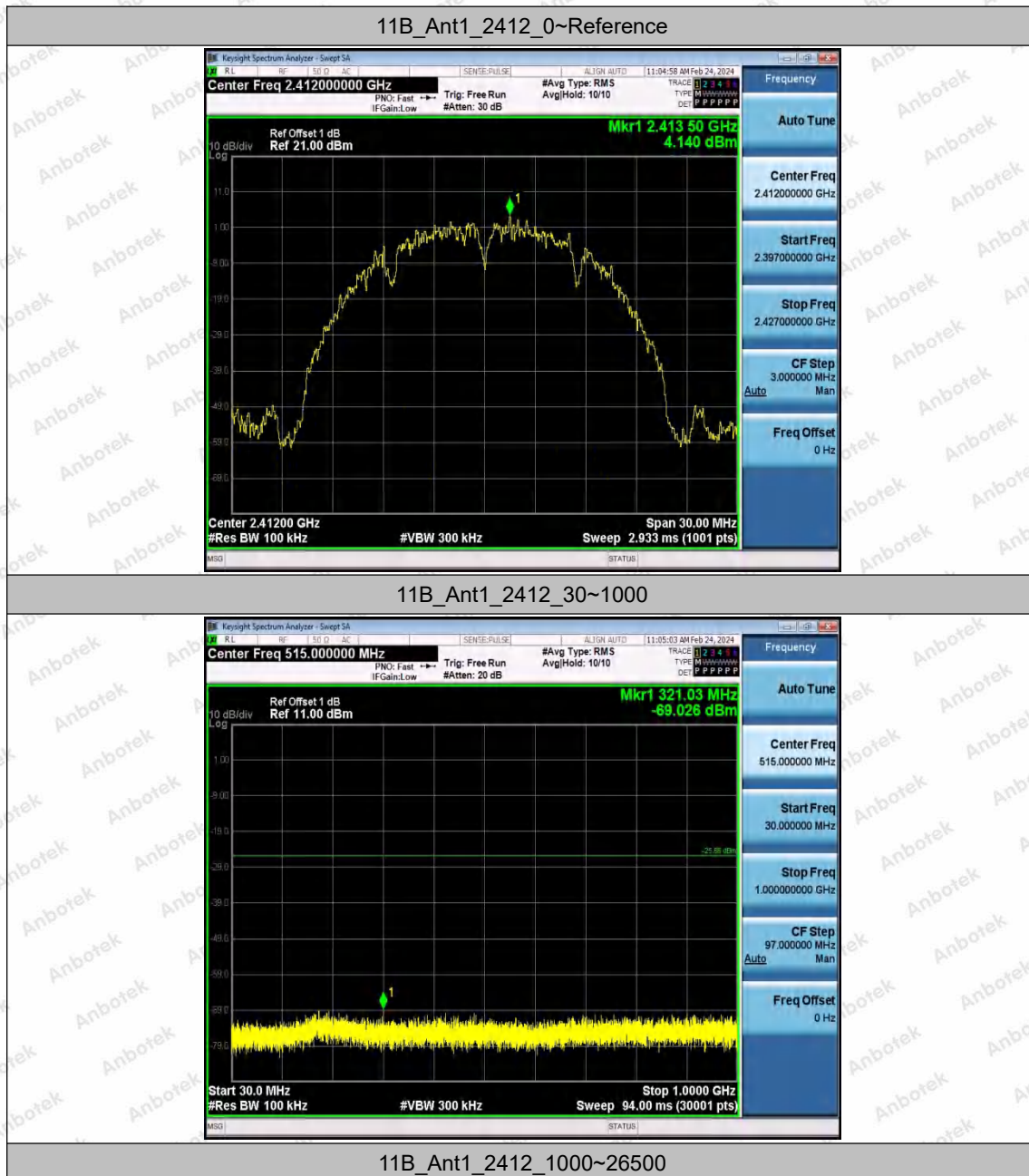
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-69.03	≤-25.86	PASS
			1000~26500	4.14	-53.55	≤-25.86	PASS
		2437	Reference	3.79	3.79	---	PASS
			30~1000	3.79	-67.25	≤-26.21	PASS
			1000~26500	3.79	-40.94	≤-26.21	PASS
		2462	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-68.29	≤-25.51	PASS
			1000~26500	4.49	-53.97	≤-25.51	PASS
11G	Ant1	2412	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-69	≤-30.41	PASS
			1000~26500	-0.41	-54.57	≤-30.41	PASS
		2437	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-68.08	≤-29.59	PASS
			1000~26500	0.41	-34.99	≤-29.59	PASS
		2462	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-68.83	≤-28.39	PASS
			1000~26500	1.61	-54.08	≤-28.39	PASS
11N20SISO	Ant1	2412	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-41.54	≤-28.2	PASS
			1000~26500	1.80	-53.34	≤-28.2	PASS
		2437	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-69.06	≤-28.59	PASS
			1000~26500	1.41	-53.35	≤-28.59	PASS
		2462	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-68.71	≤-28.29	PASS
			1000~26500	1.71	-53.74	≤-28.29	PASS



Test Graphs



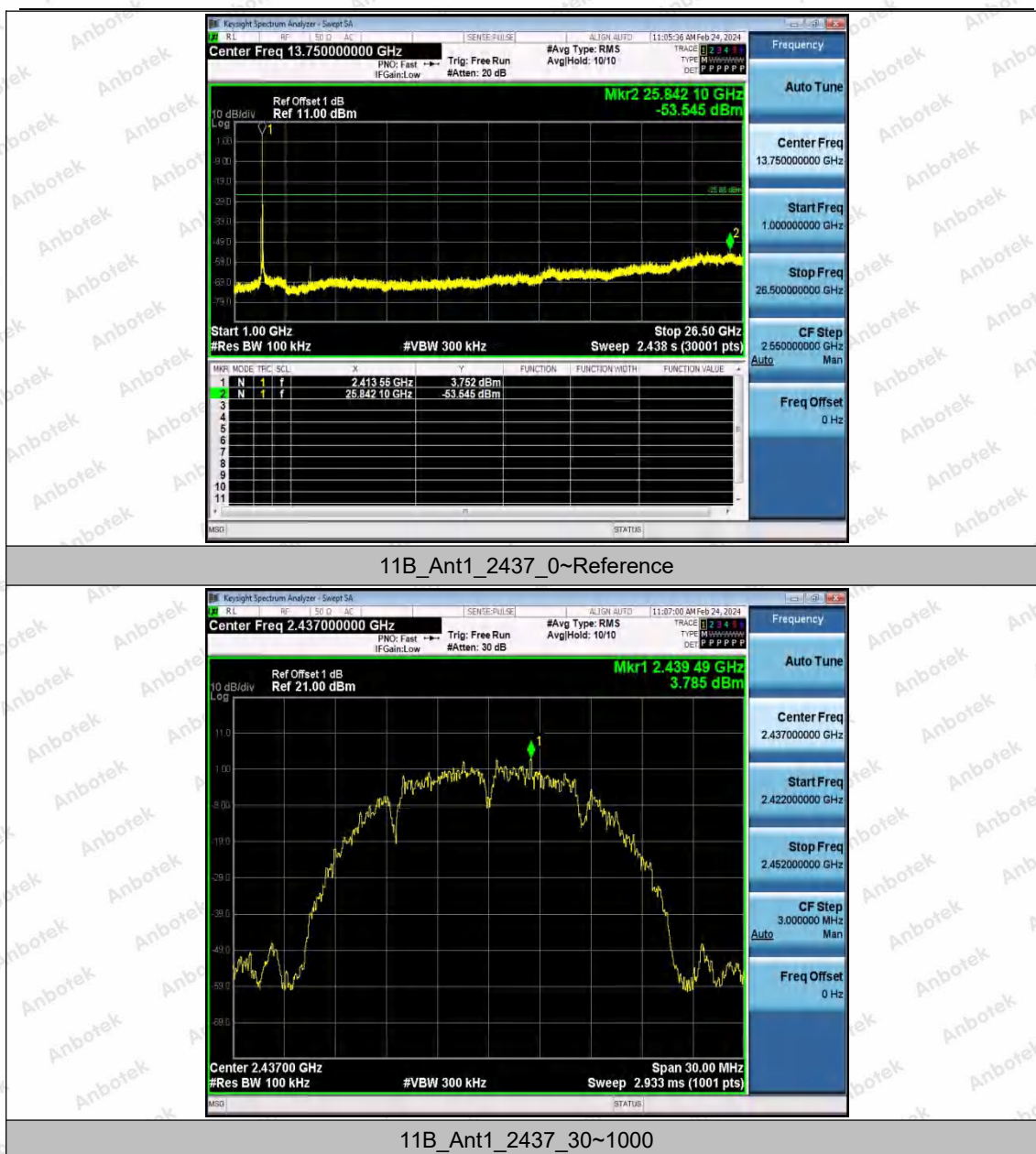
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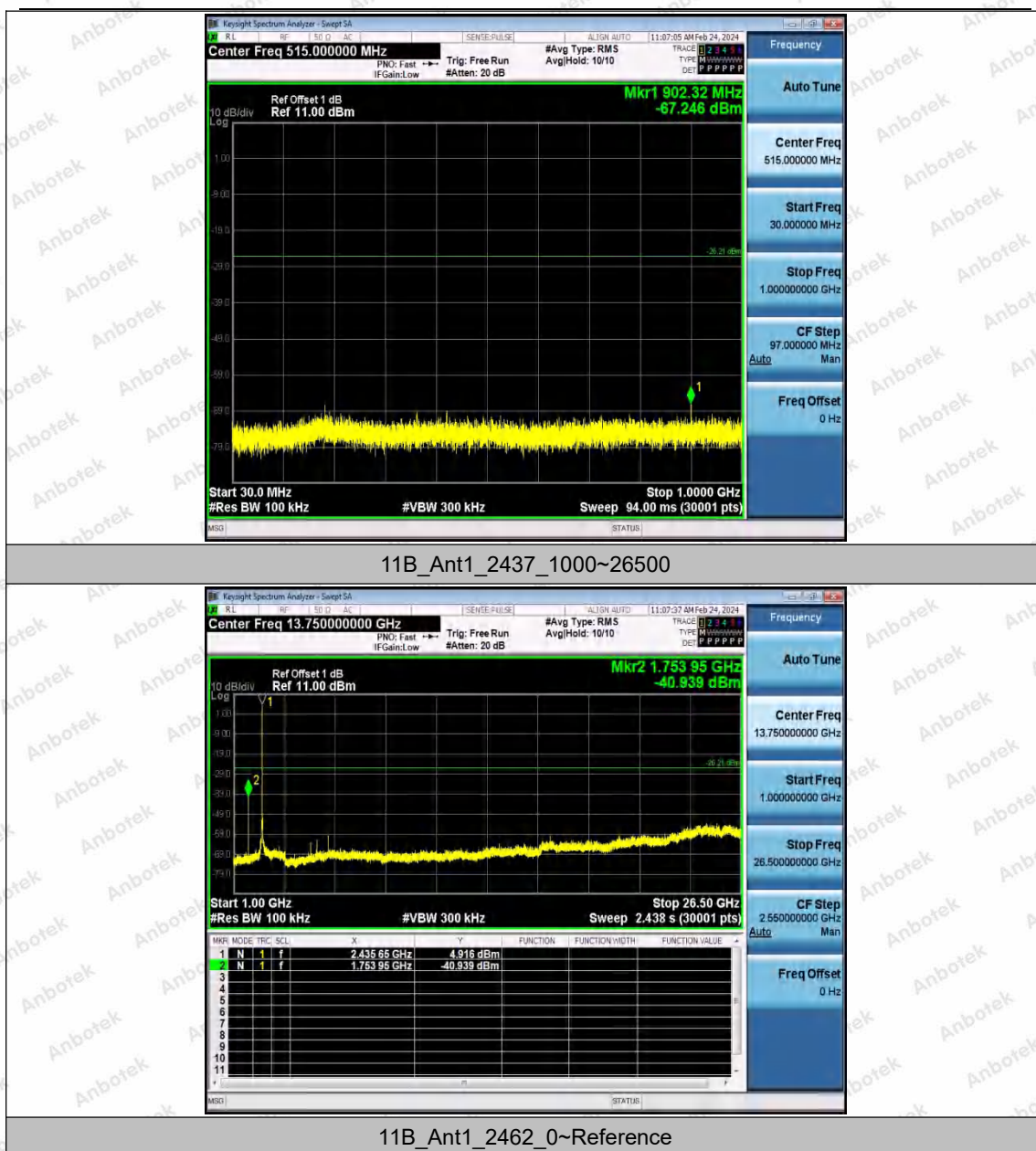
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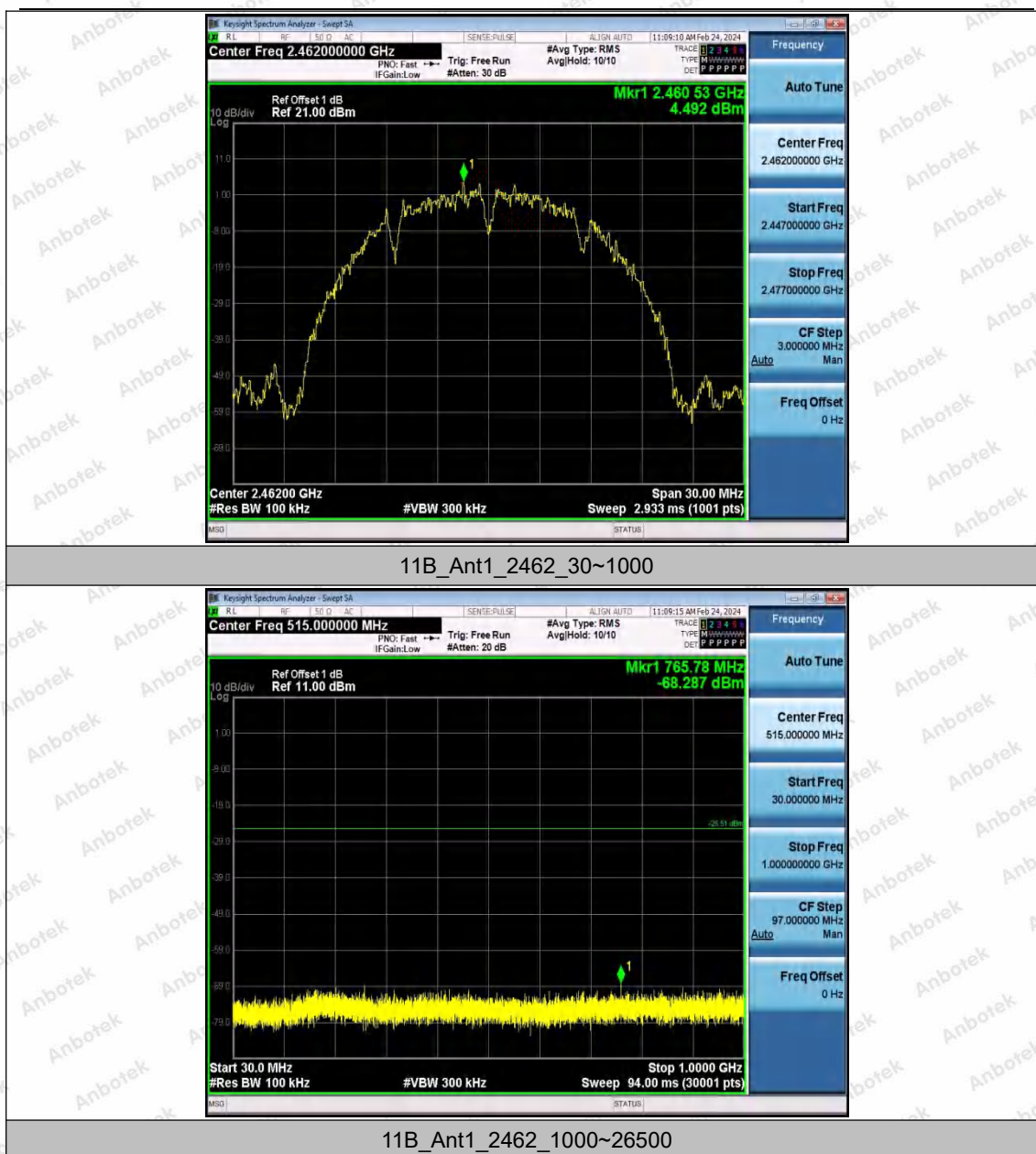
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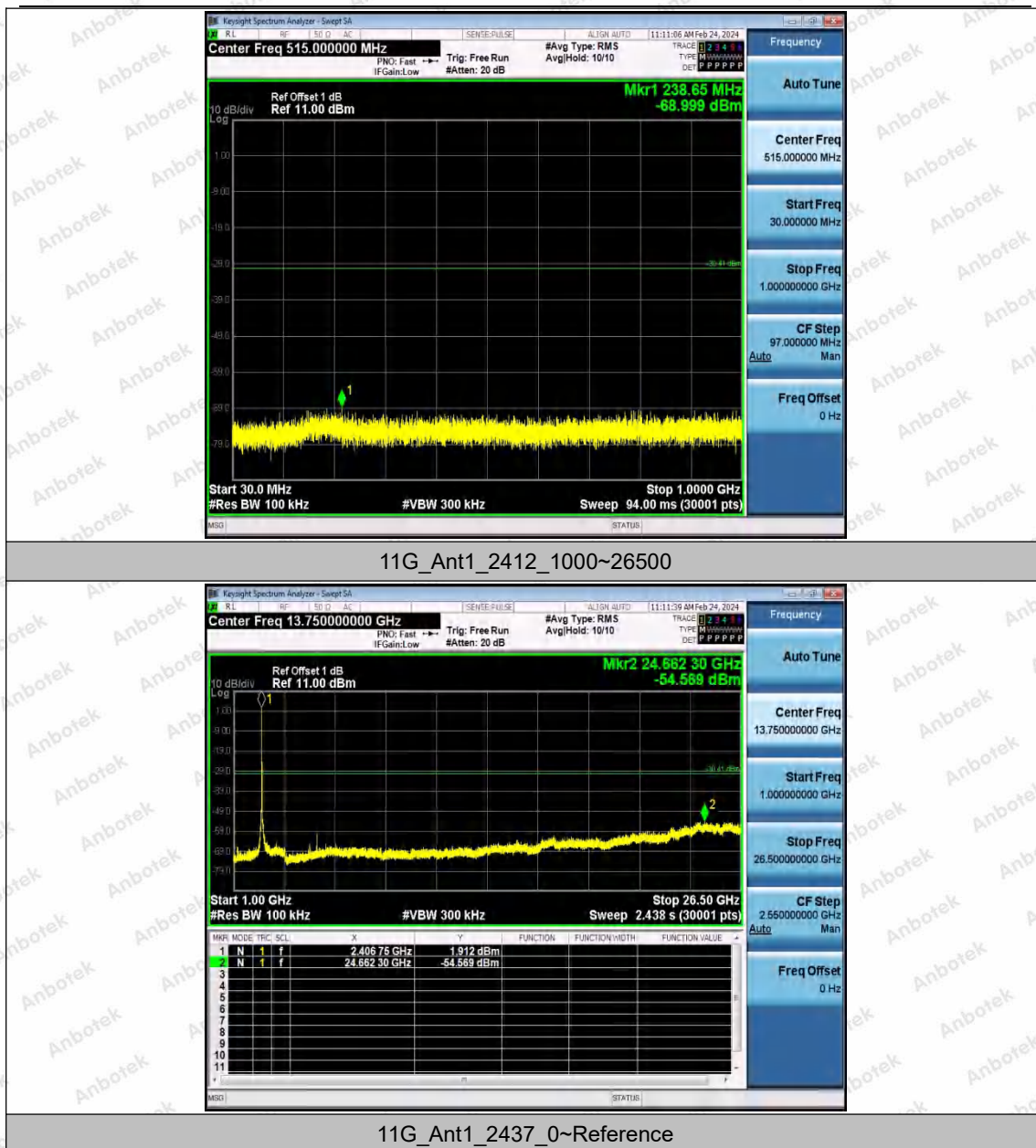
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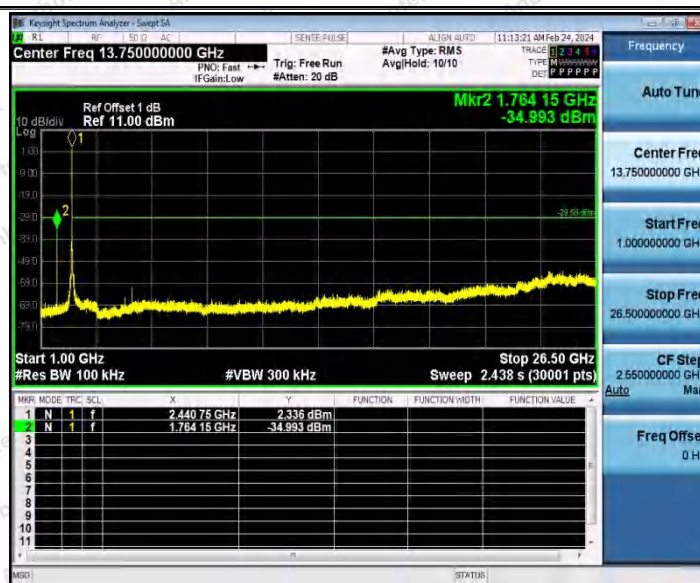
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

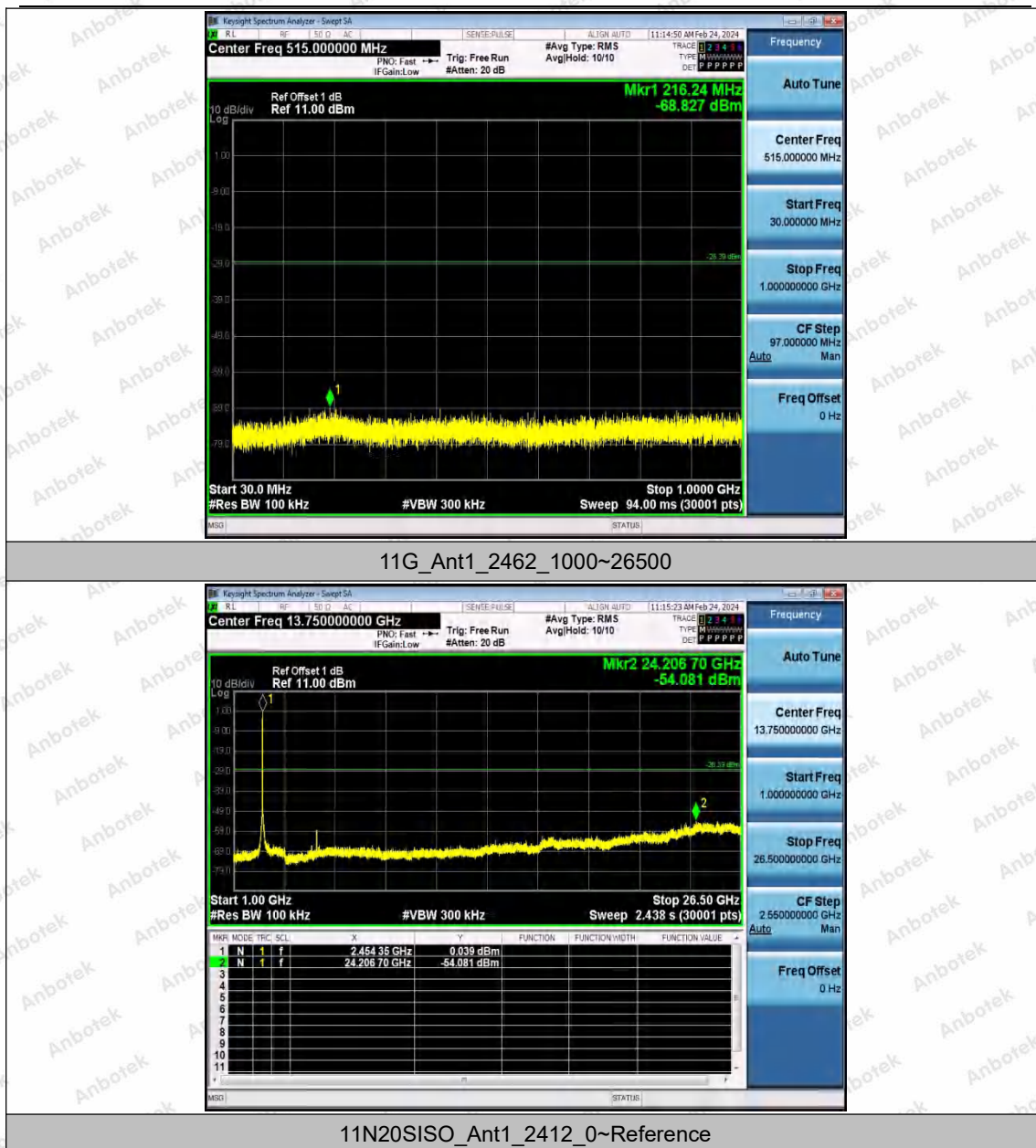
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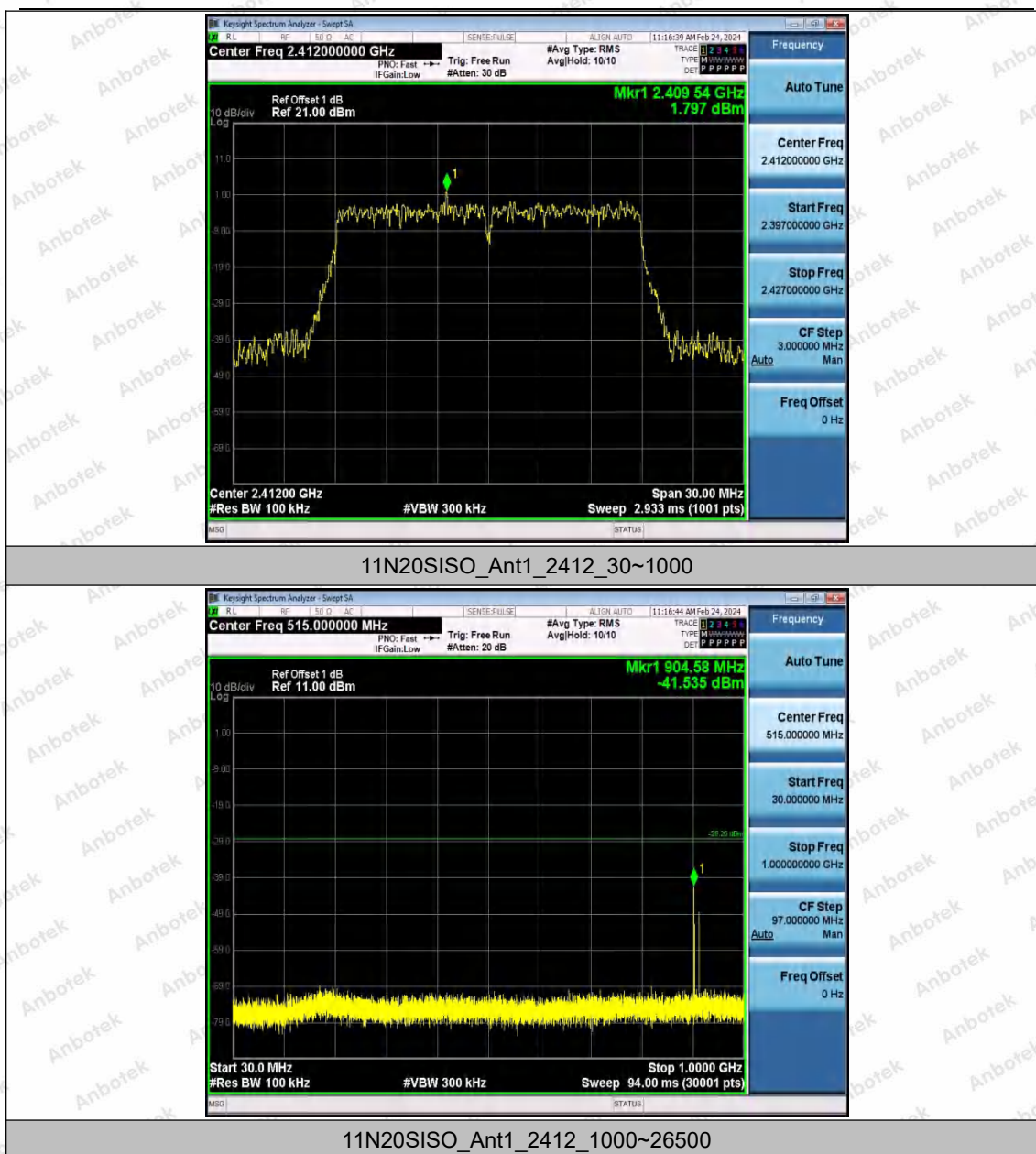
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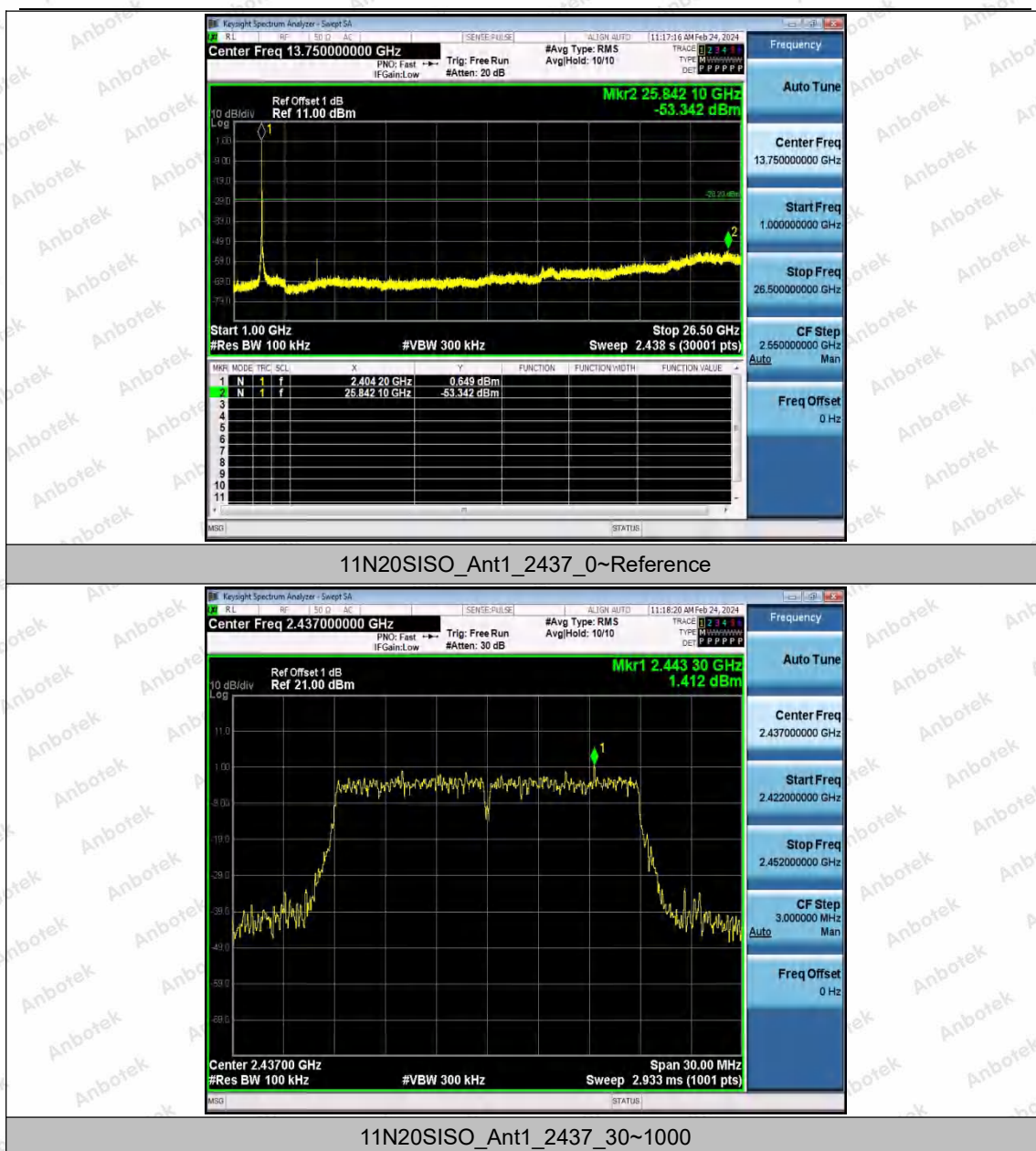
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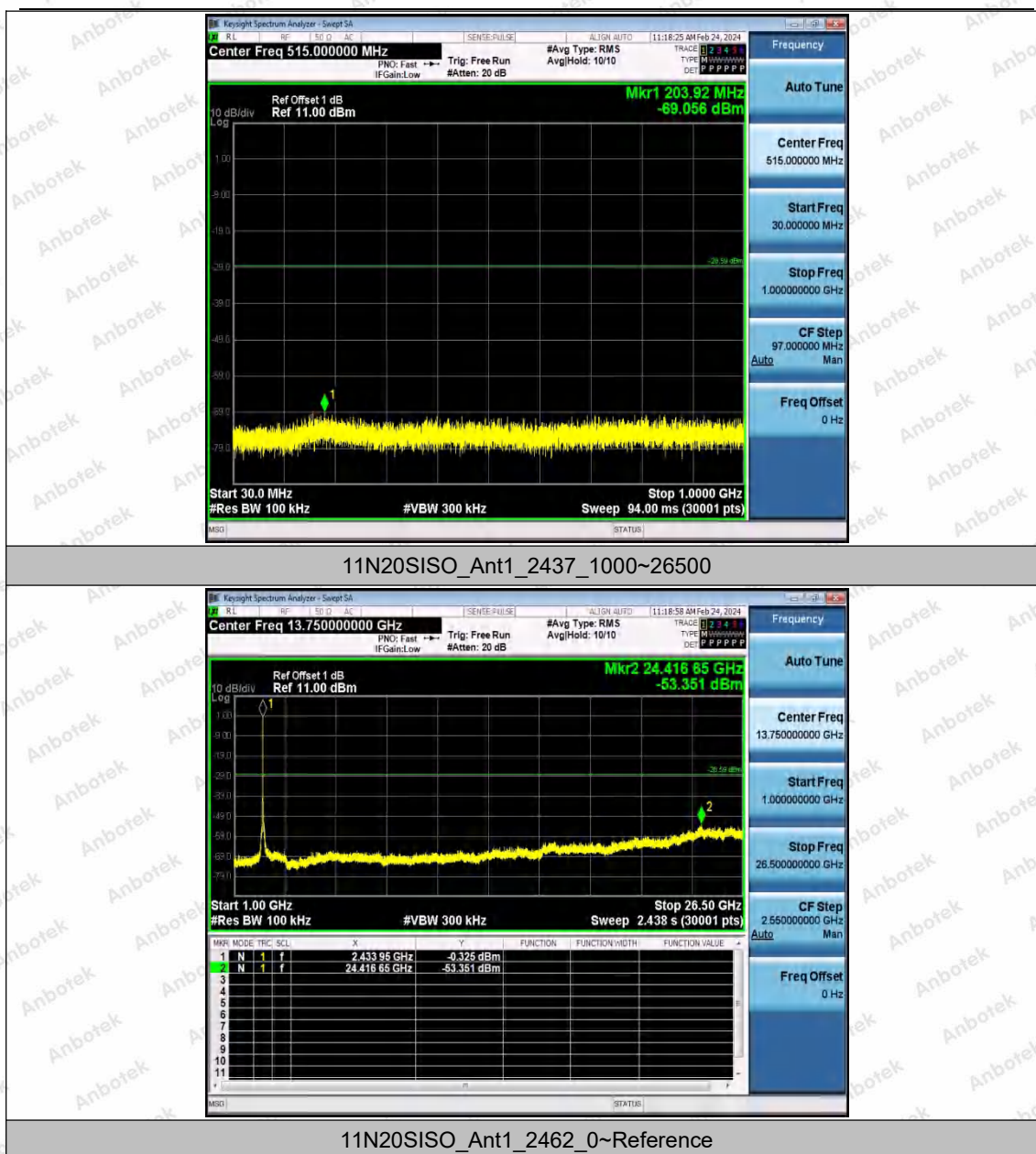
Shenzhen Anbotek Compliance Laboratory Limited

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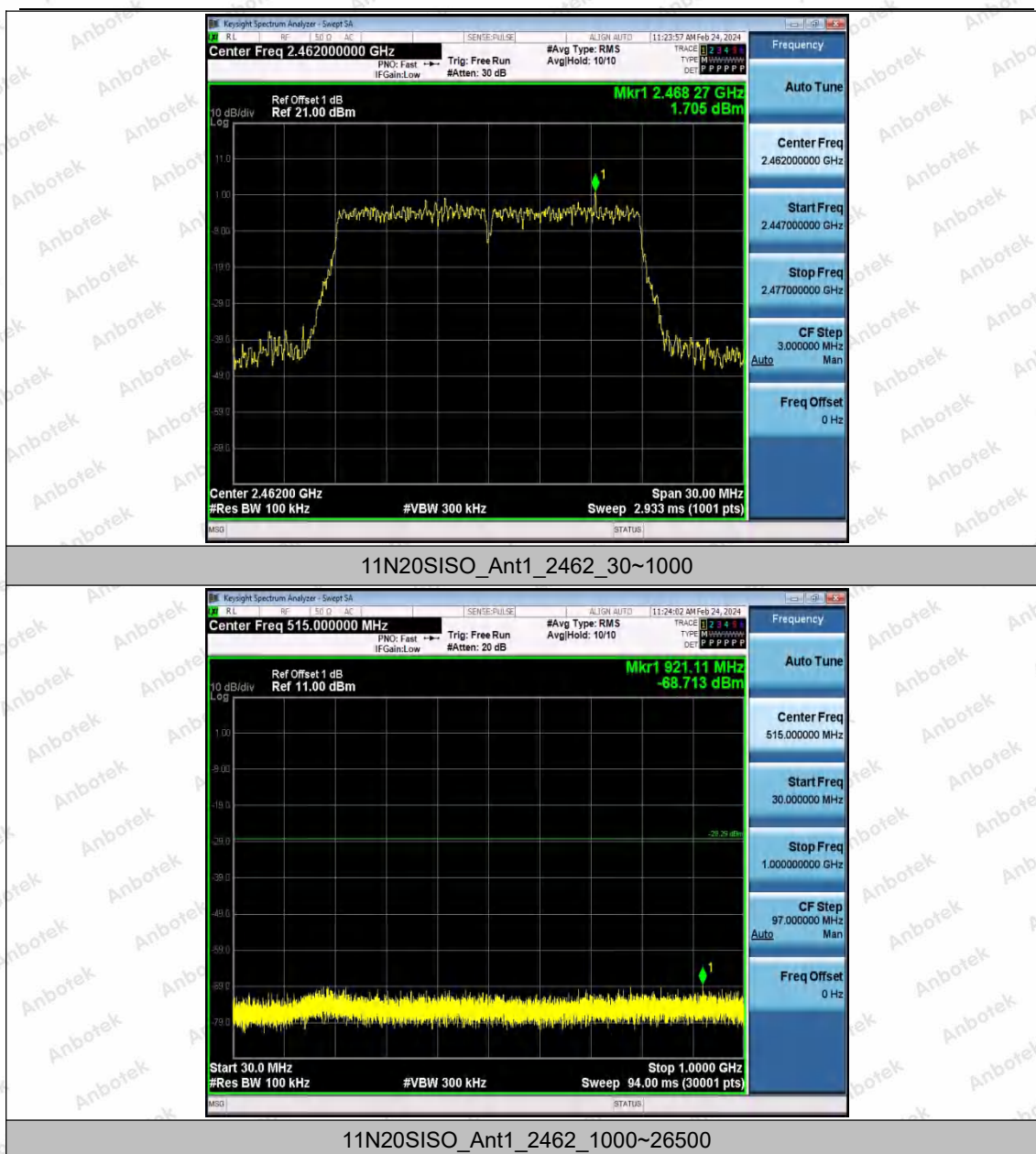
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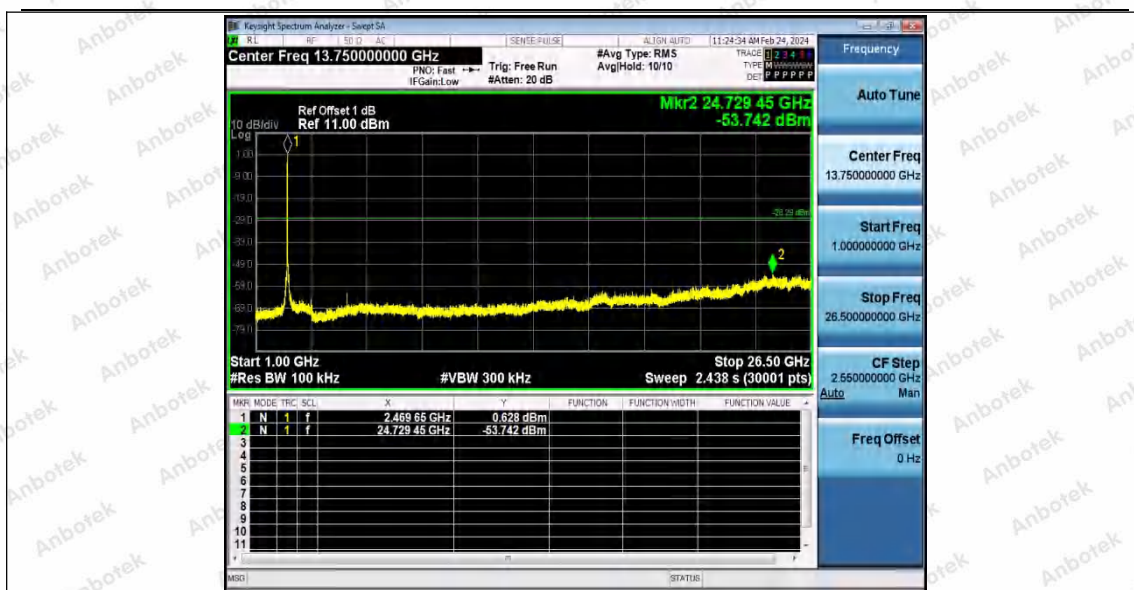
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Appendix G: Duty Cycle

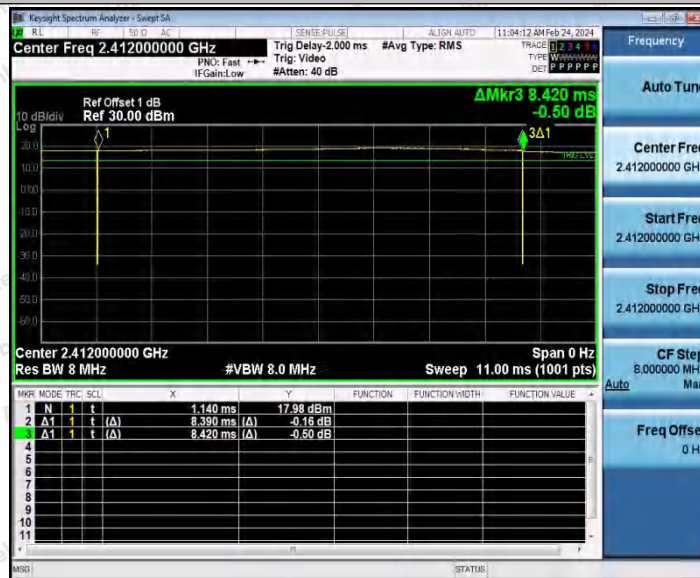
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.37	8.41	99.52	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	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.33	97.74	0.10

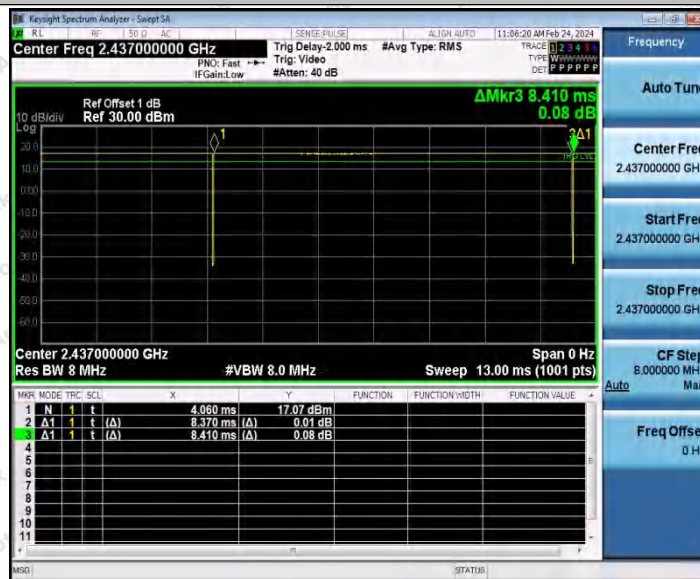


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



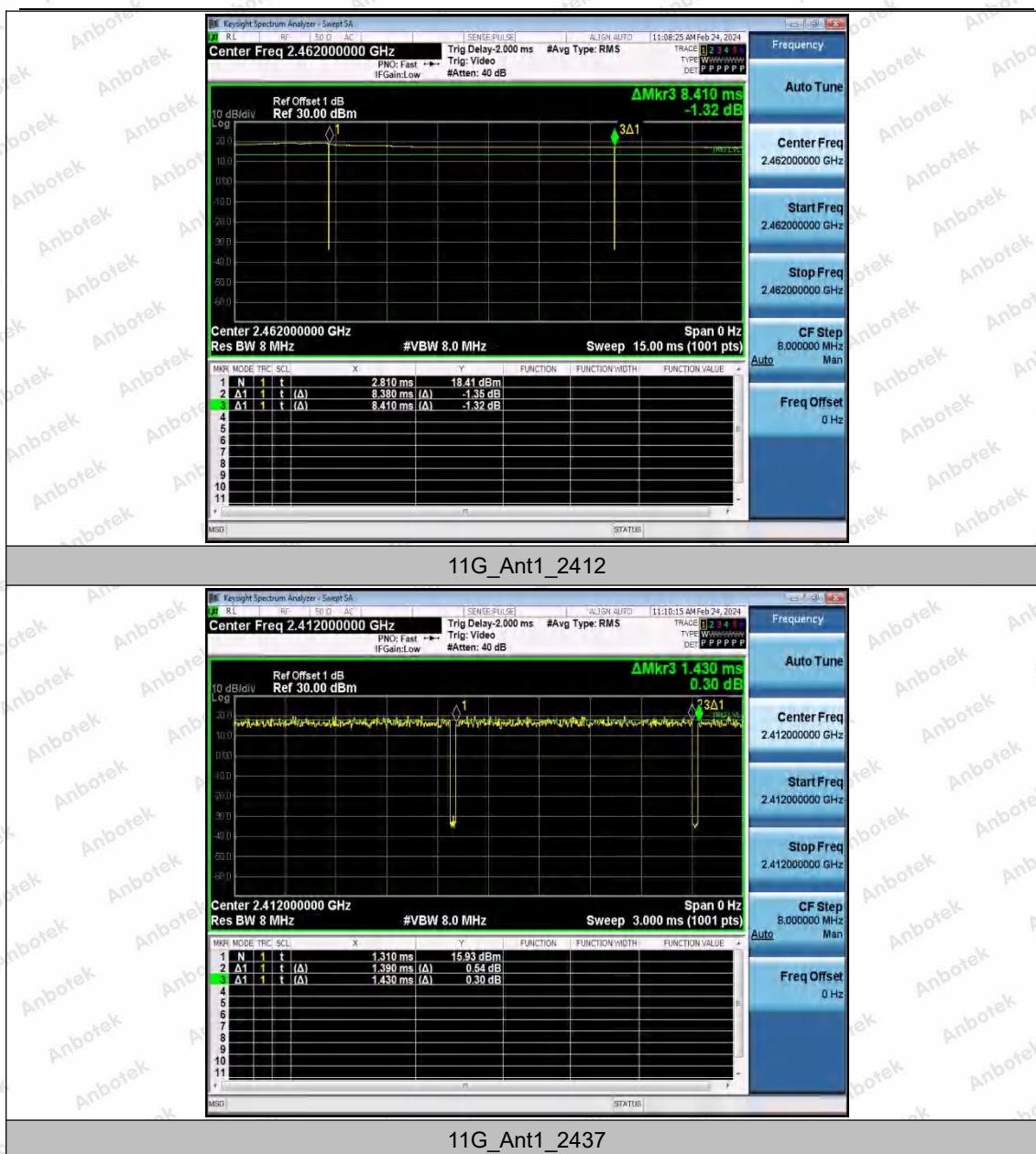
11B_Ant1_2462

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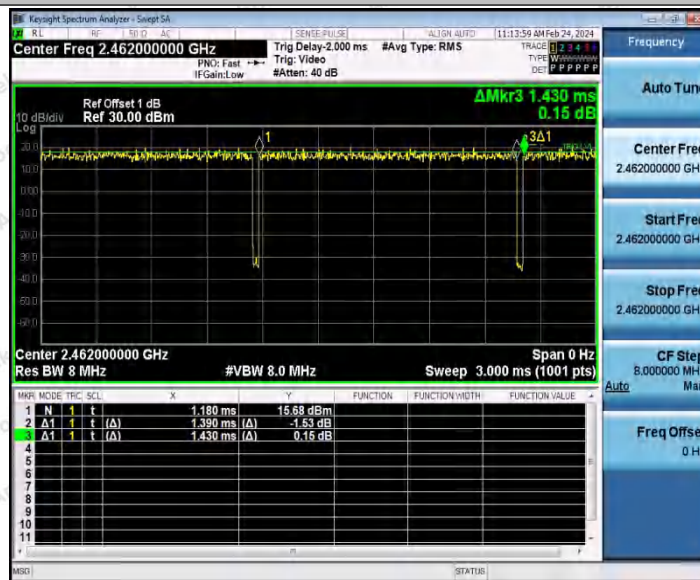


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11G_Ant1_2462



11N20SISO_Ant1_2412

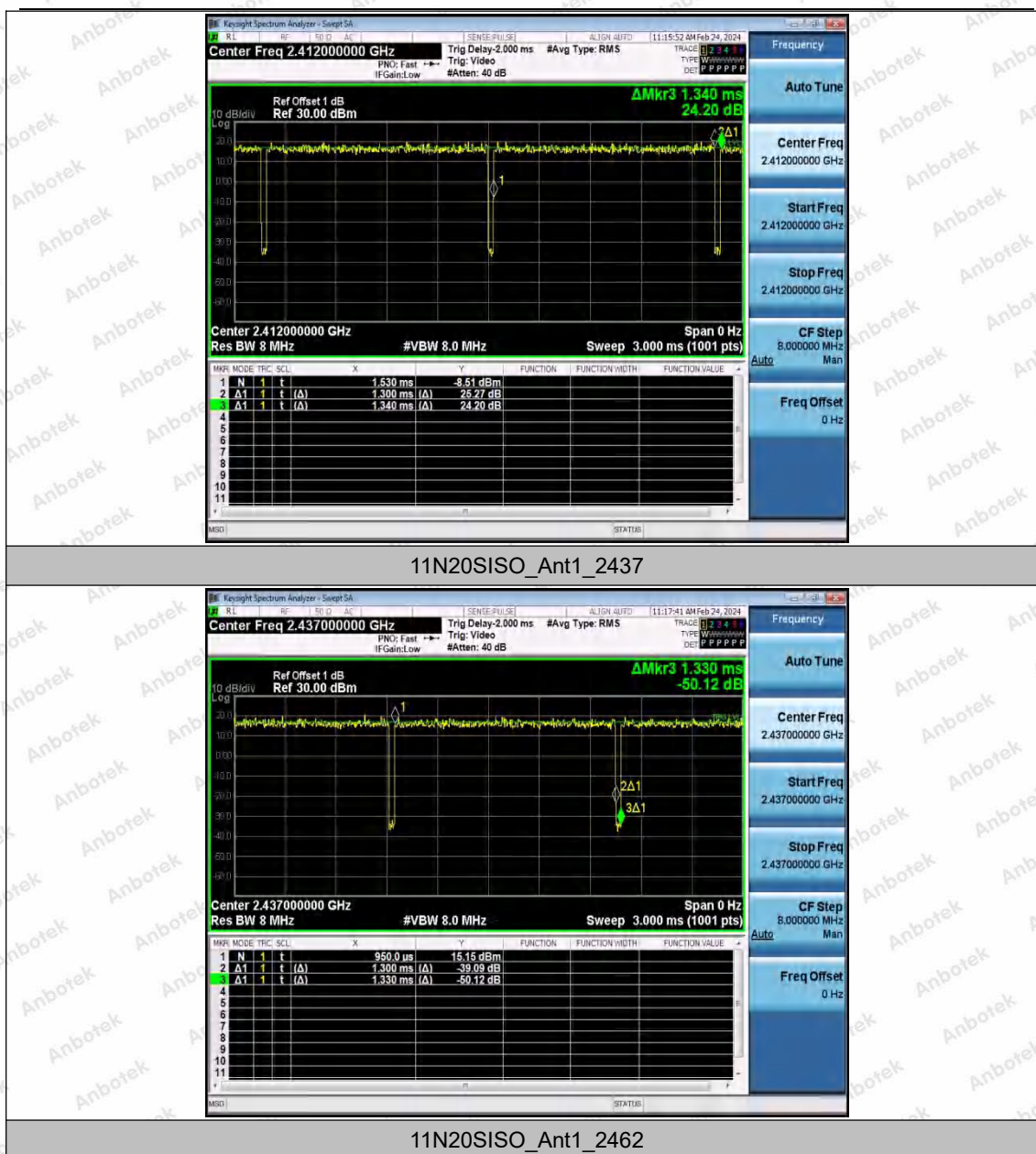
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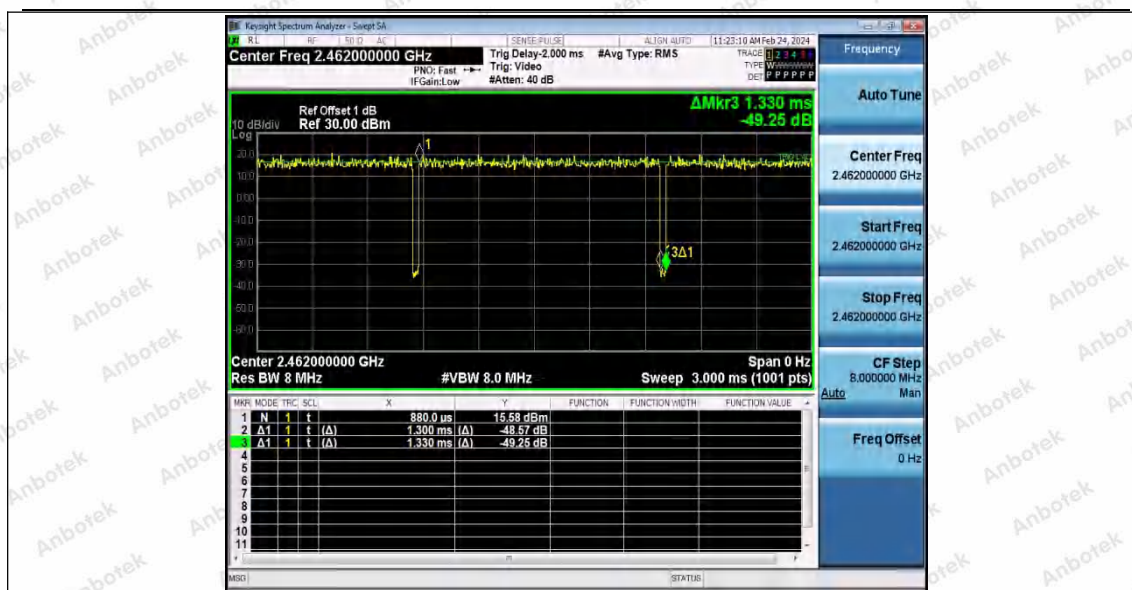
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