

Appendix Test Data

Report No.:	18220WC30248802	Test Sample No.:	1-2-2
Start Test Date:	2023.12.04	Finish Test Date:	2024.1.04
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	43%
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	7.560	2408.440	2416.000	0.5	PASS
		2437	7.560	2433.440	2441.000	0.5	PASS
		2462	7.560	2458.440	2466.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.200	2420.880	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	16.920	2453.840	2470.760	0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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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	11.919	2406.0828	2418.0018	---	---
		2437	11.311	2431.4764	2442.7874	---	---
		2462	11.431	2456.4294	2467.8604	---	---
11G	Ant1	2412	17.112	2403.4579	2420.5699	---	---
		2437	17.113	2428.4934	2445.6064	---	---
		2462	17.163	2453.4515	2470.6145	---	---
11N20SISO	Ant1	2412	18.264	2402.9306	2421.1946	---	---
		2437	18.157	2427.9748	2446.1318	---	---
		2462	18.200	2452.9329	2471.1329	---	---



Test Graphs



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Appendix C: Maximum conducted output power

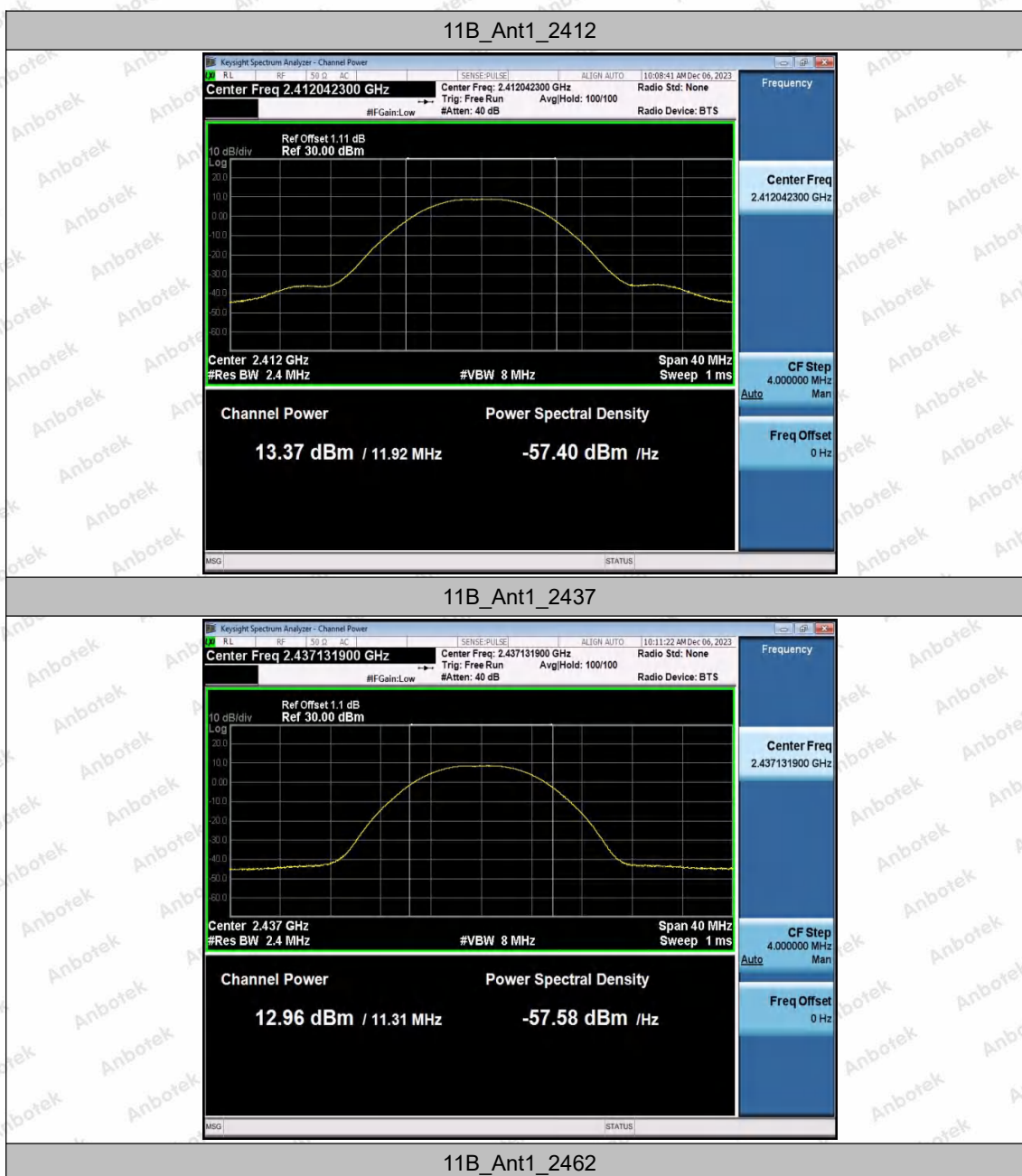
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.37	≤30.00
		2437	12.96	≤30.00
		2462	13.12	≤30.00
11G	Ant1	2412	12.91	≤30.00
		2437	13.03	≤30.00
		2462	13.08	≤30.00
11N20SISO	Ant1	2412	13.60	≤30.00
		2437	12.91	≤30.00
		2462	12.95	≤30.00

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



Test Graphs



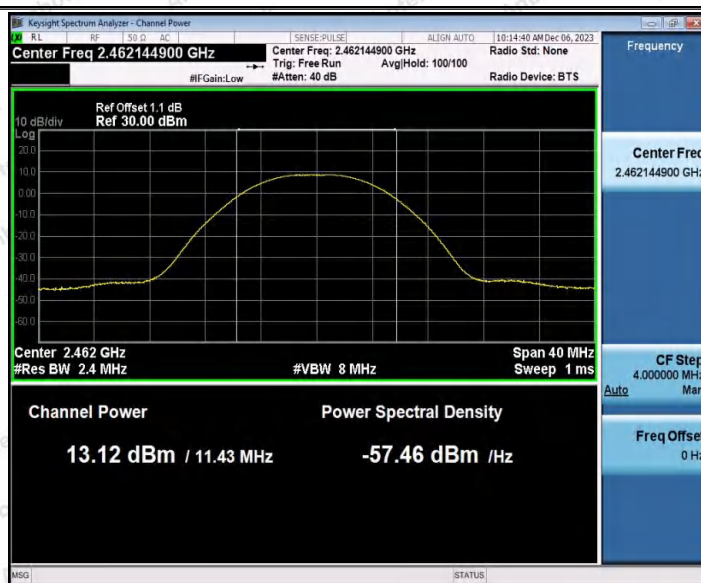
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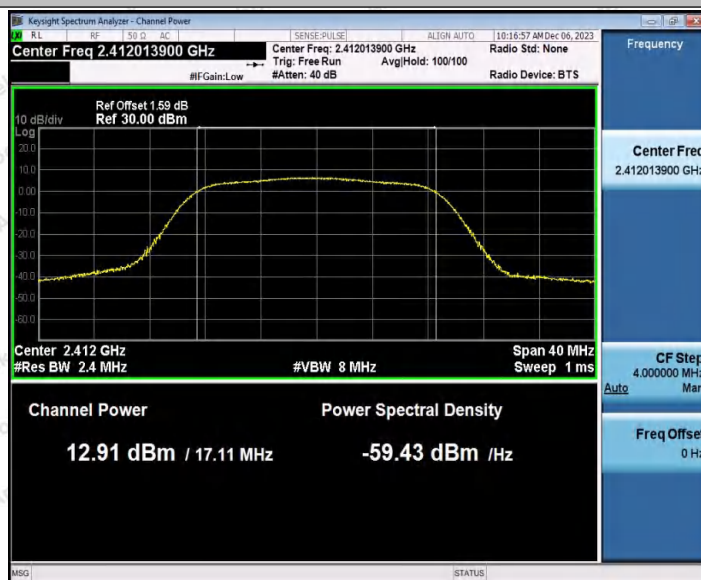


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11G_Ant1_2412



11G_Ant1_2437

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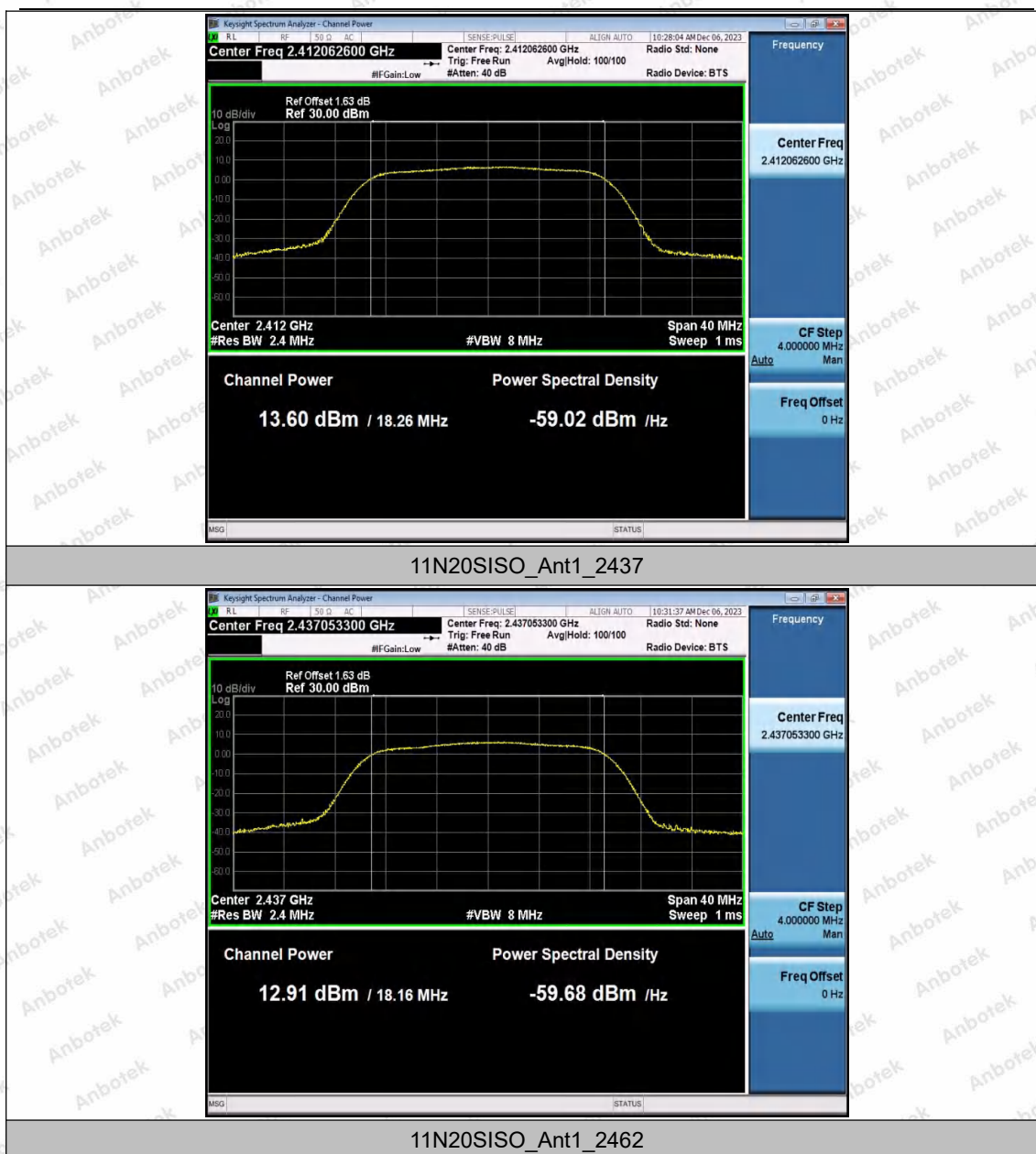
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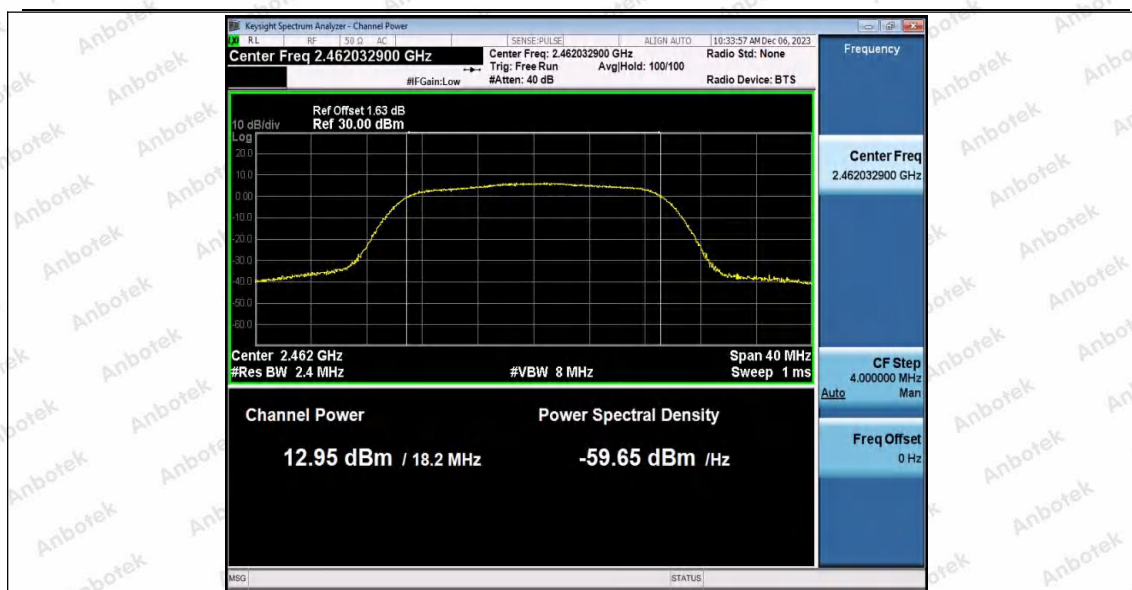
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.27	-17.27	≤8.00	PASS
		2437	-7.35	-17.35	≤8.00	PASS
		2462	-7.17	-17.17	≤8.00	PASS
11G	Ant1	2412	-8.28	-18.28	≤8.00	PASS
		2437	-8.1	-18.10	≤8.00	PASS
		2462	-7.93	-17.93	≤8.00	PASS
11N20SISO	Ant1	2412	-8.08	-18.08	≤8.00	PASS
		2437	-8.47	-18.47	≤8.00	PASS
		2462	-12.75	-22.75	≤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

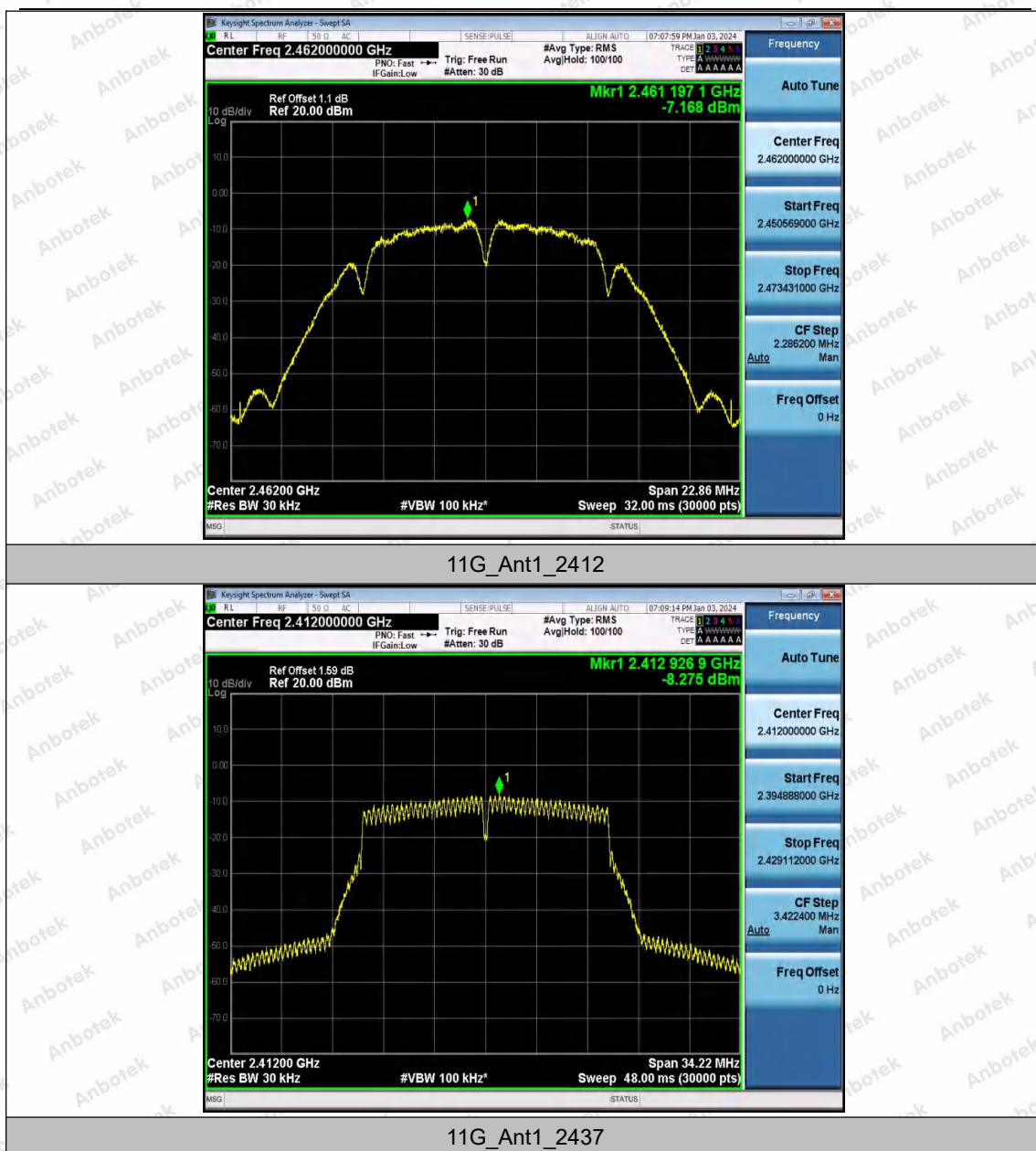
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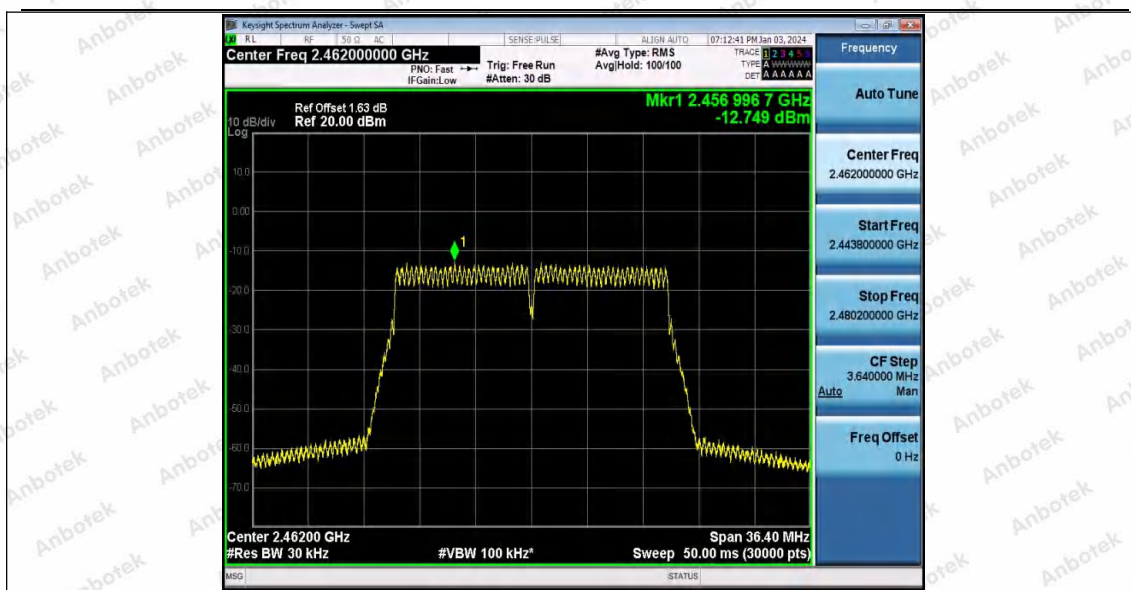
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Appendix E: Band edge measurements

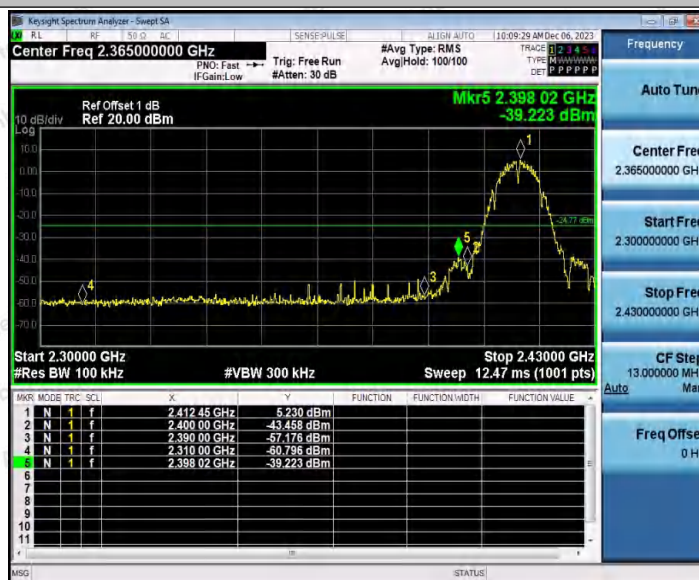
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.23	-39.22	≤-24.77	PASS
		High	2462	5.45	-49.33	≤-24.55	PASS
11G	Ant1	Low	2412	0.57	-37.75	≤-29.43	PASS
		High	2462	0.71	-45.91	≤-29.3	PASS
11N20SISO	Ant1	Low	2412	1.45	-34.92	≤-28.55	PASS
		High	2462	1.26	-43.71	≤-28.74	PASS

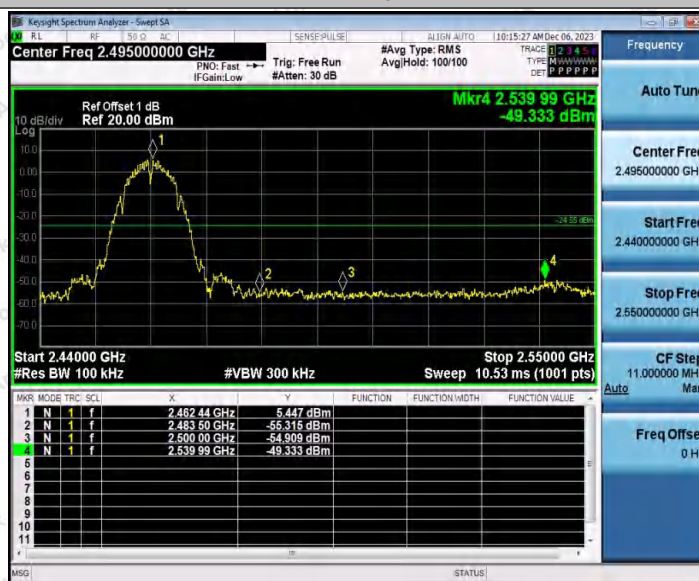


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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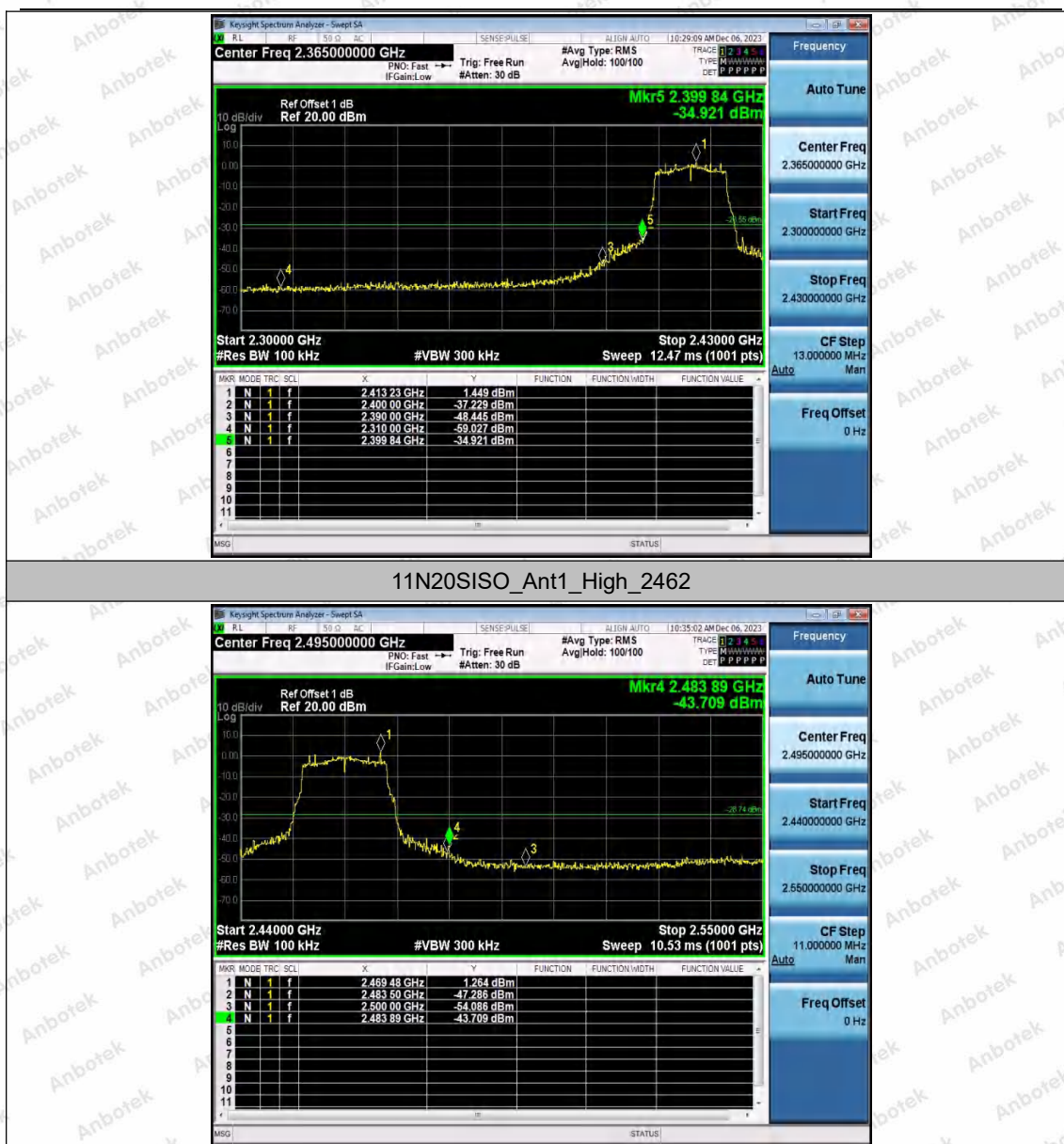
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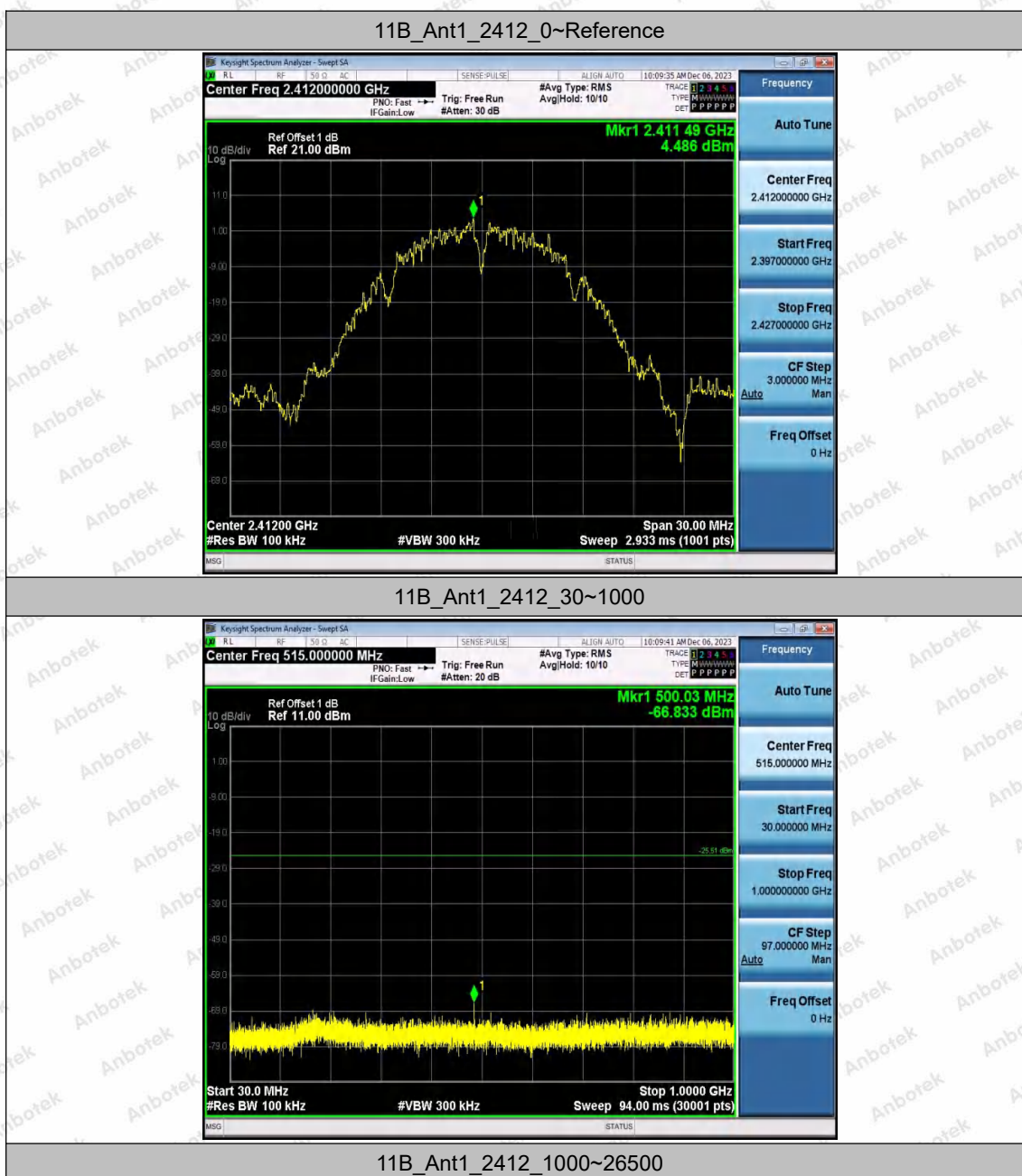
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-66.83	≤-25.51	PASS
			1000~26500	4.49	-52.59	≤-25.51	PASS
		2437	Reference	4.54	4.54	---	PASS
			30~1000	4.54	-66.6	≤-25.46	PASS
			1000~26500	4.54	-52.57	≤-25.46	PASS
		2462	Reference	3.61	3.61	---	PASS
			30~1000	3.61	-67.23	≤-26.39	PASS
			1000~26500	3.61	-50.55	≤-26.39	PASS
11G	Ant1	2412	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-66.7	≤-29.51	PASS
			1000~26500	0.49	-50.19	≤-29.51	PASS
		2437	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-67.17	≤-31.05	PASS
			1000~26500	-1.05	-49.57	≤-31.05	PASS
		2462	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-66.92	≤-31.06	PASS
			1000~26500	-1.06	-51.05	≤-31.06	PASS
11N20SISO	Ant1	2412	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-66.71	≤-30.12	PASS
			1000~26500	-0.12	-51.03	≤-30.12	PASS
		2437	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-66.37	≤-30.67	PASS
			1000~26500	-0.67	-50.86	≤-30.67	PASS
		2462	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-68.26	≤-29.69	PASS
			1000~26500	0.31	-50.57	≤-29.69	PASS



Test Graphs



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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

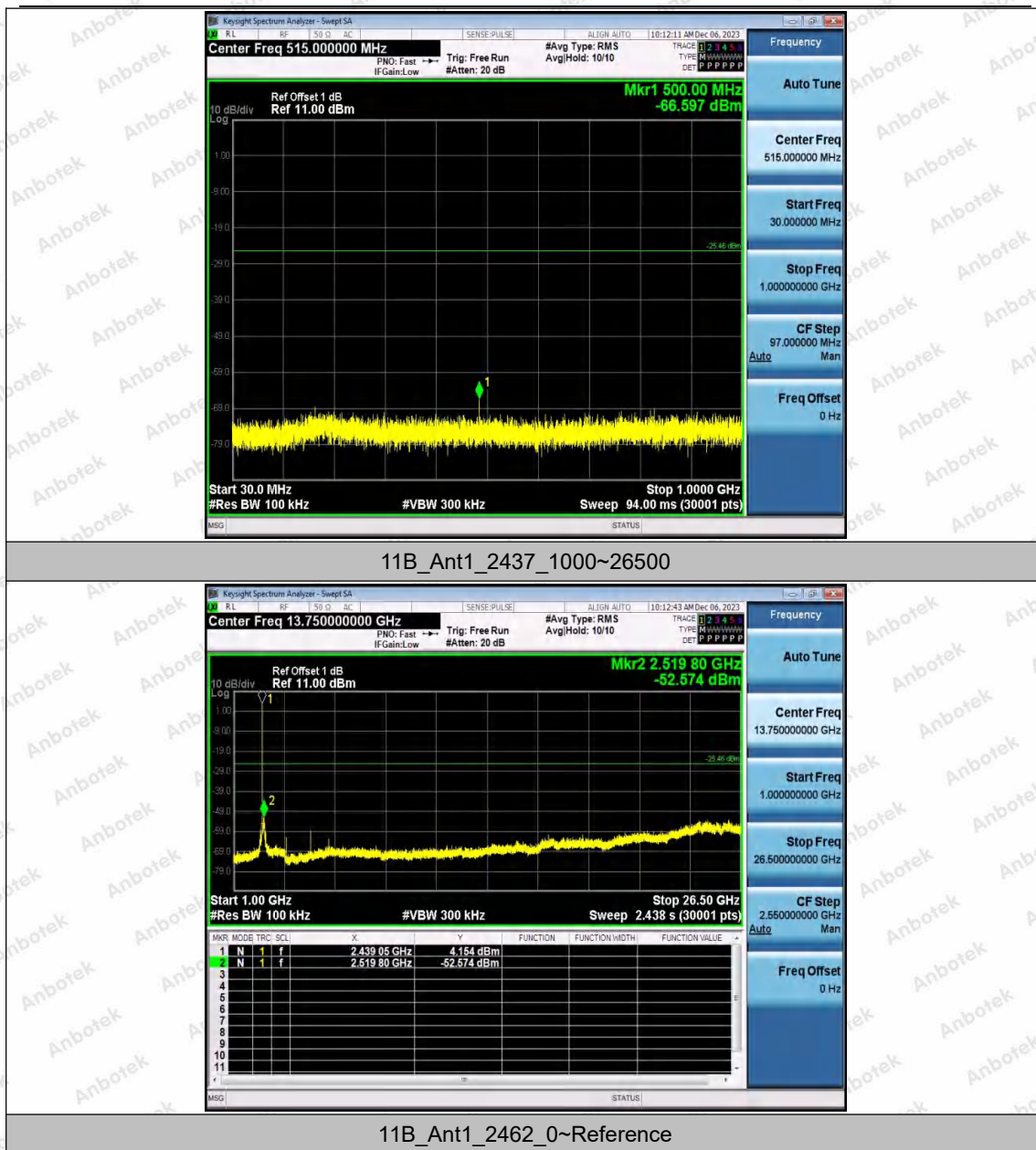
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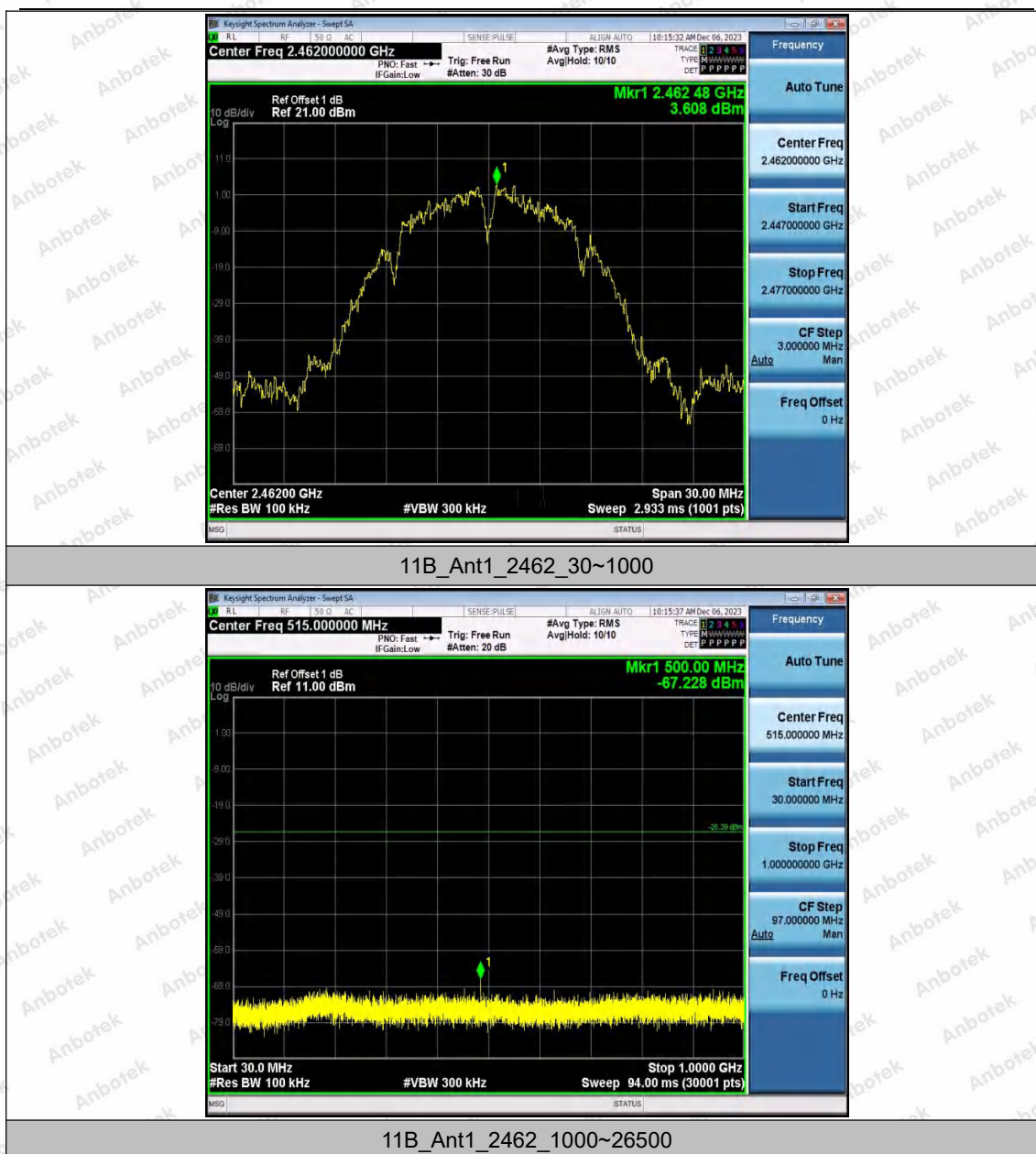
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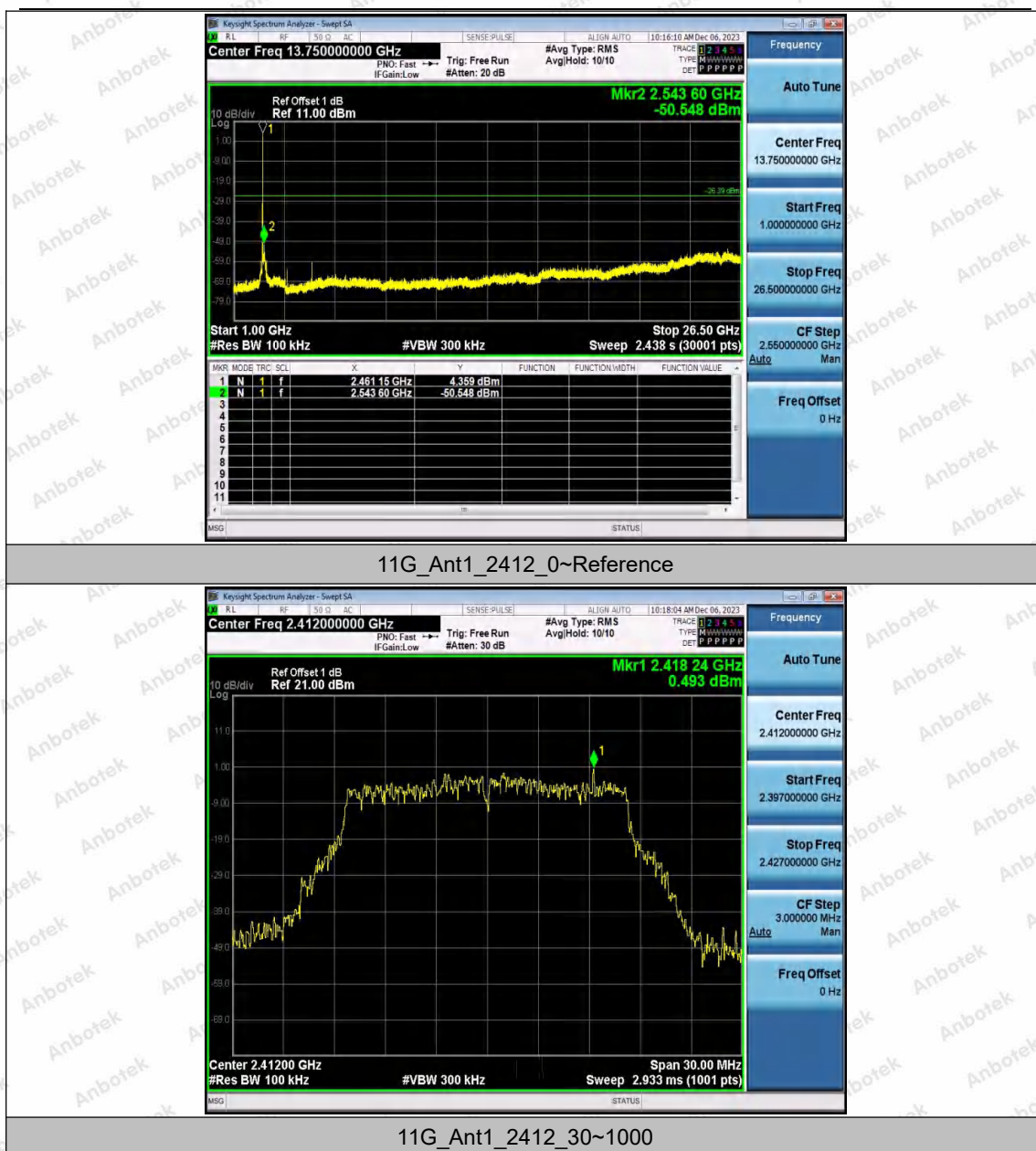
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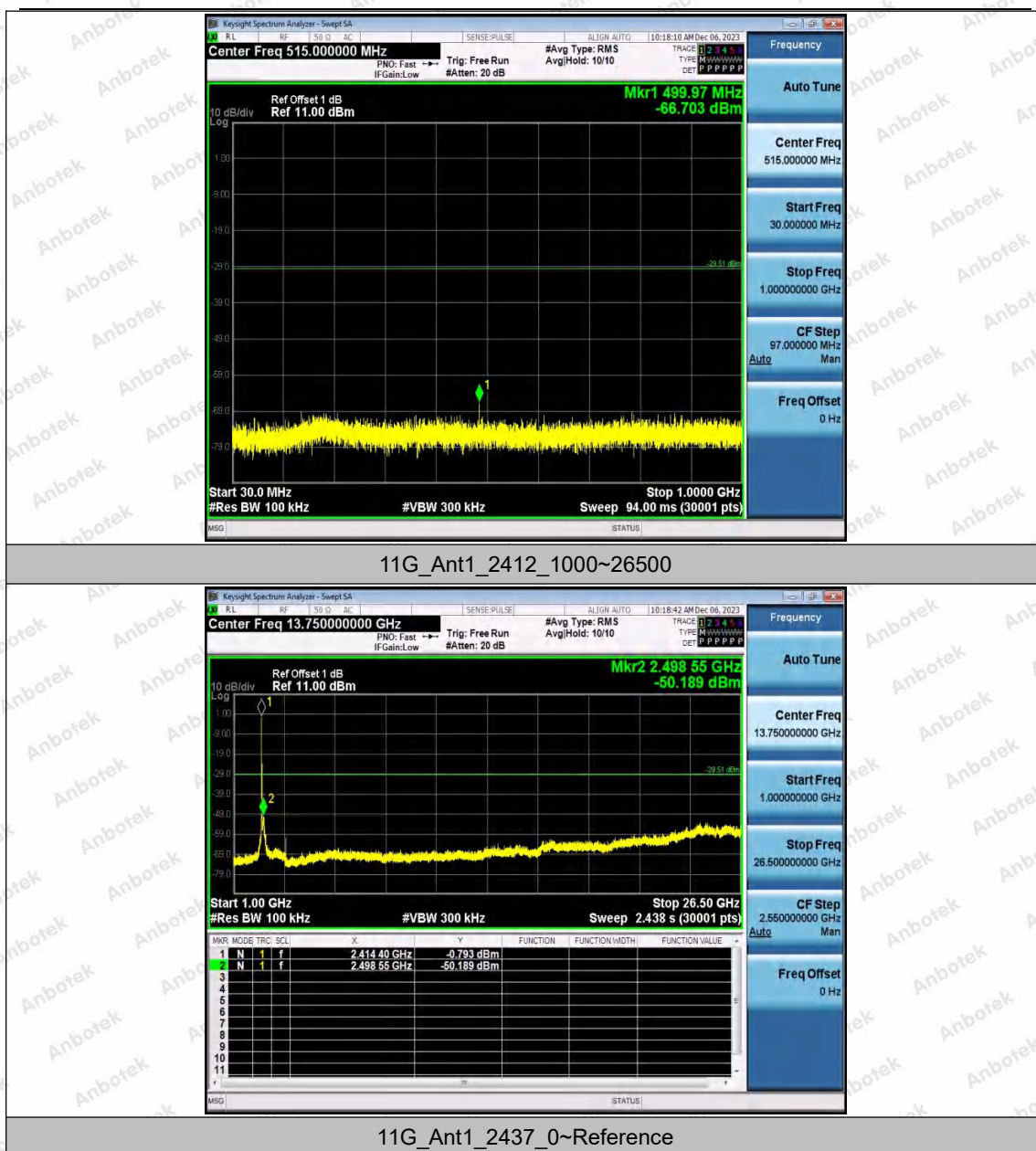
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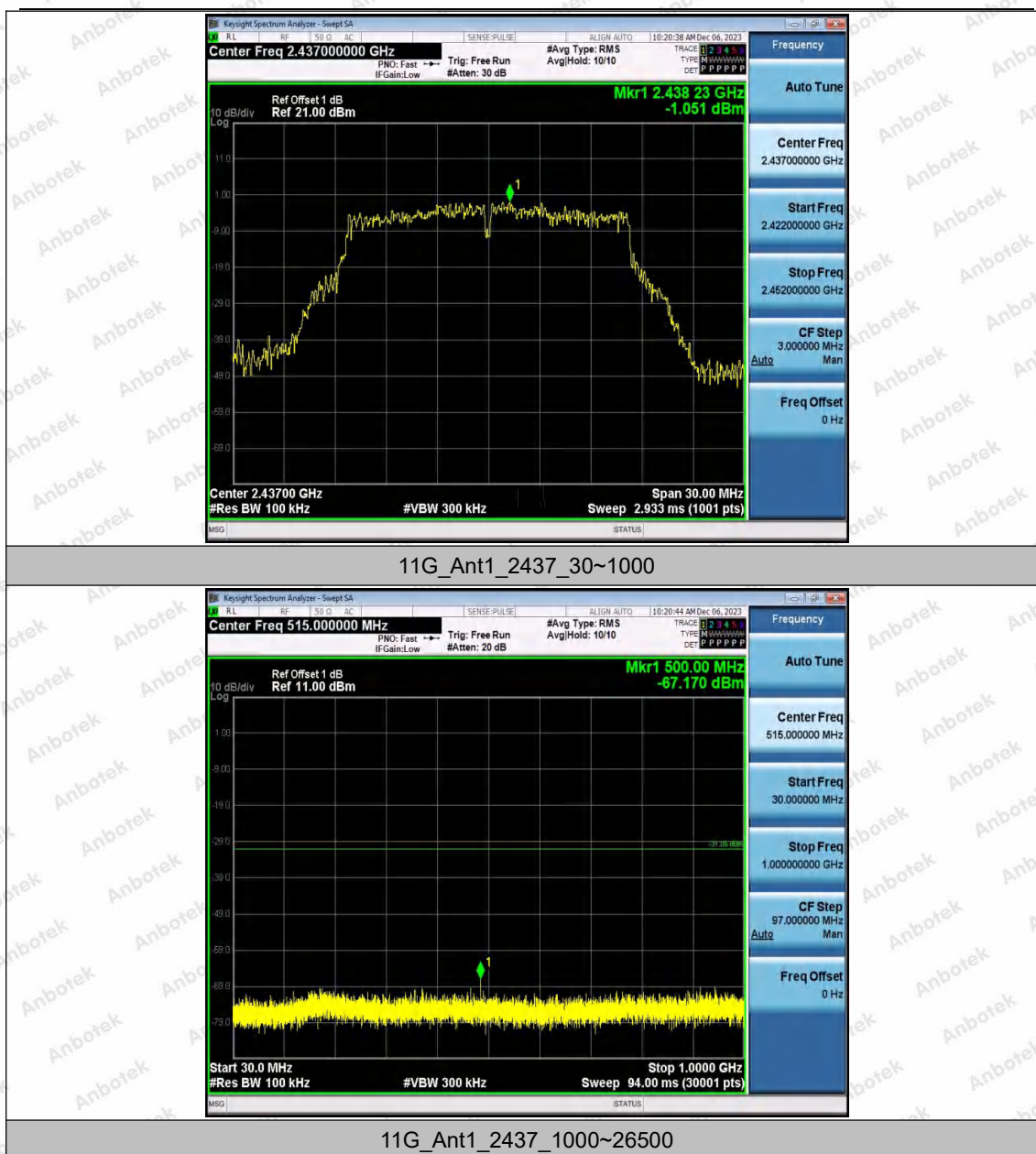


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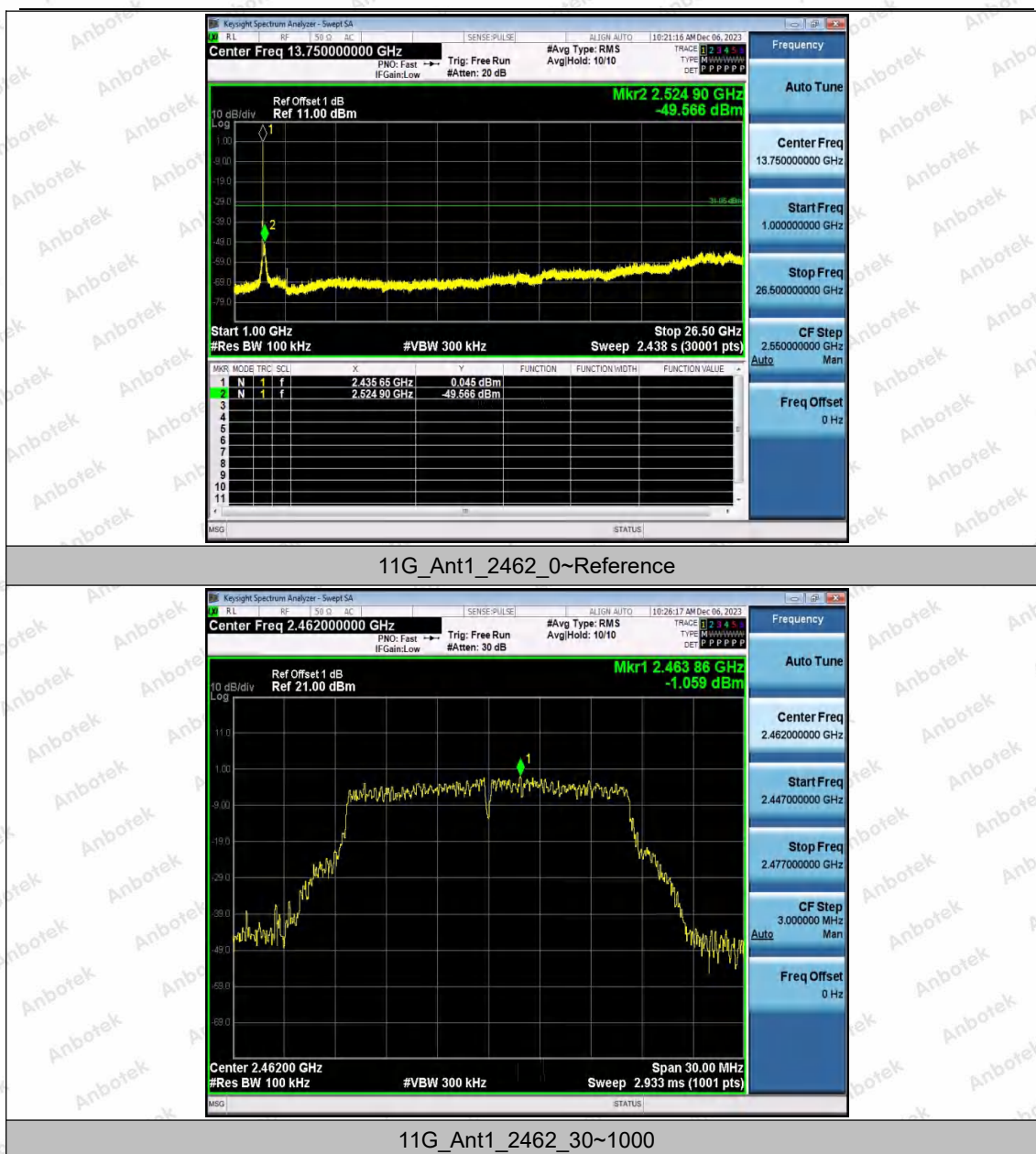
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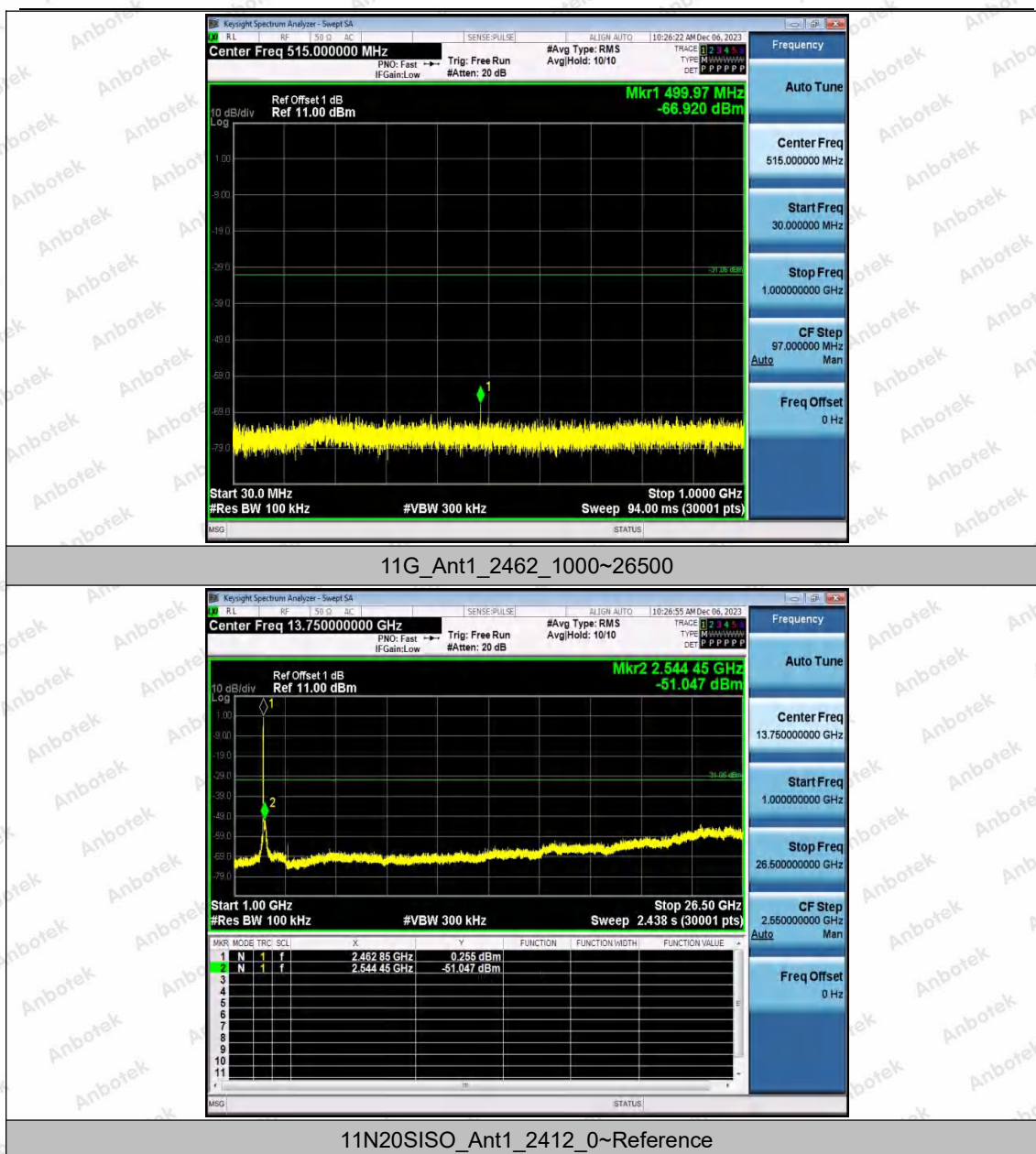
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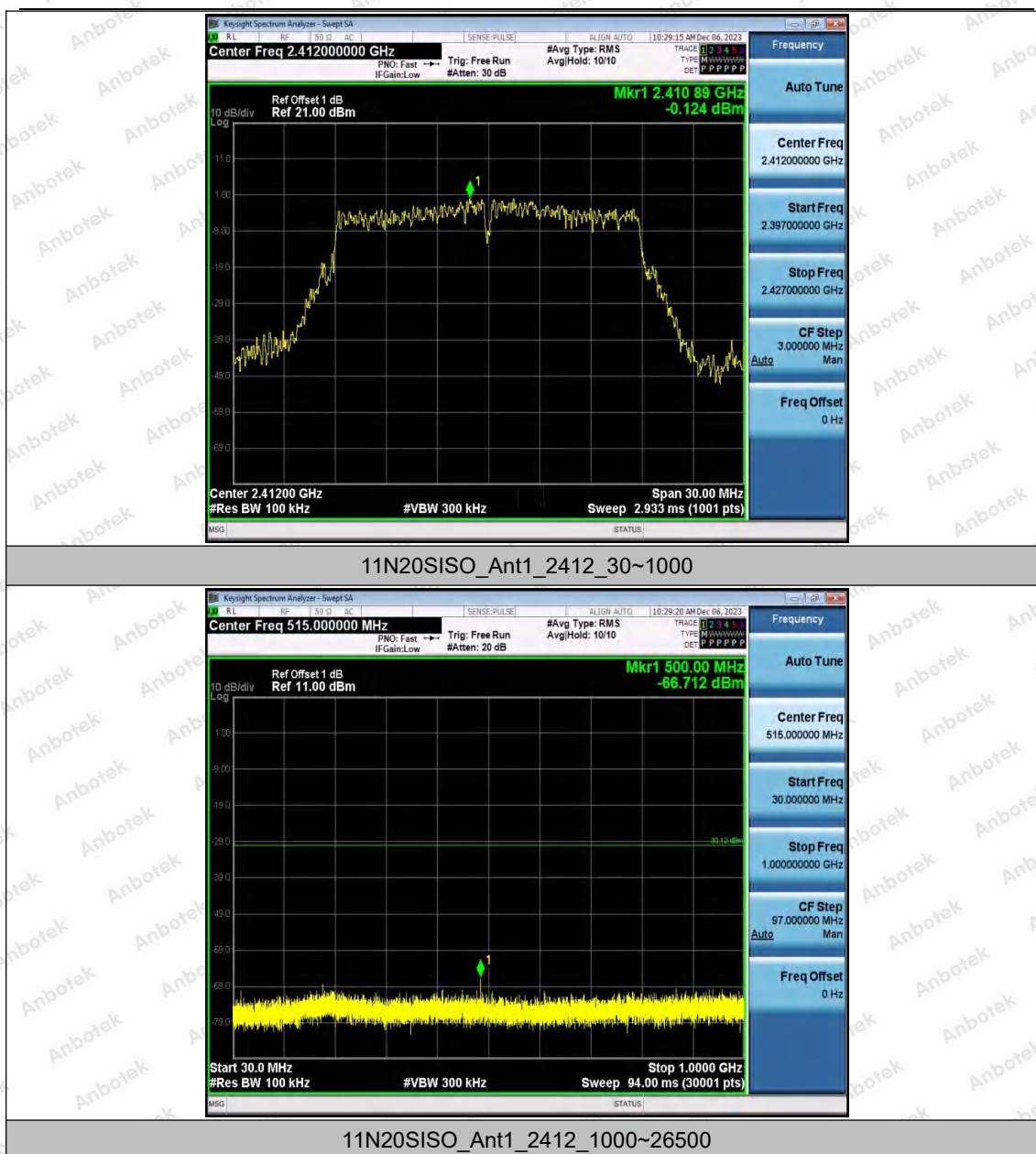
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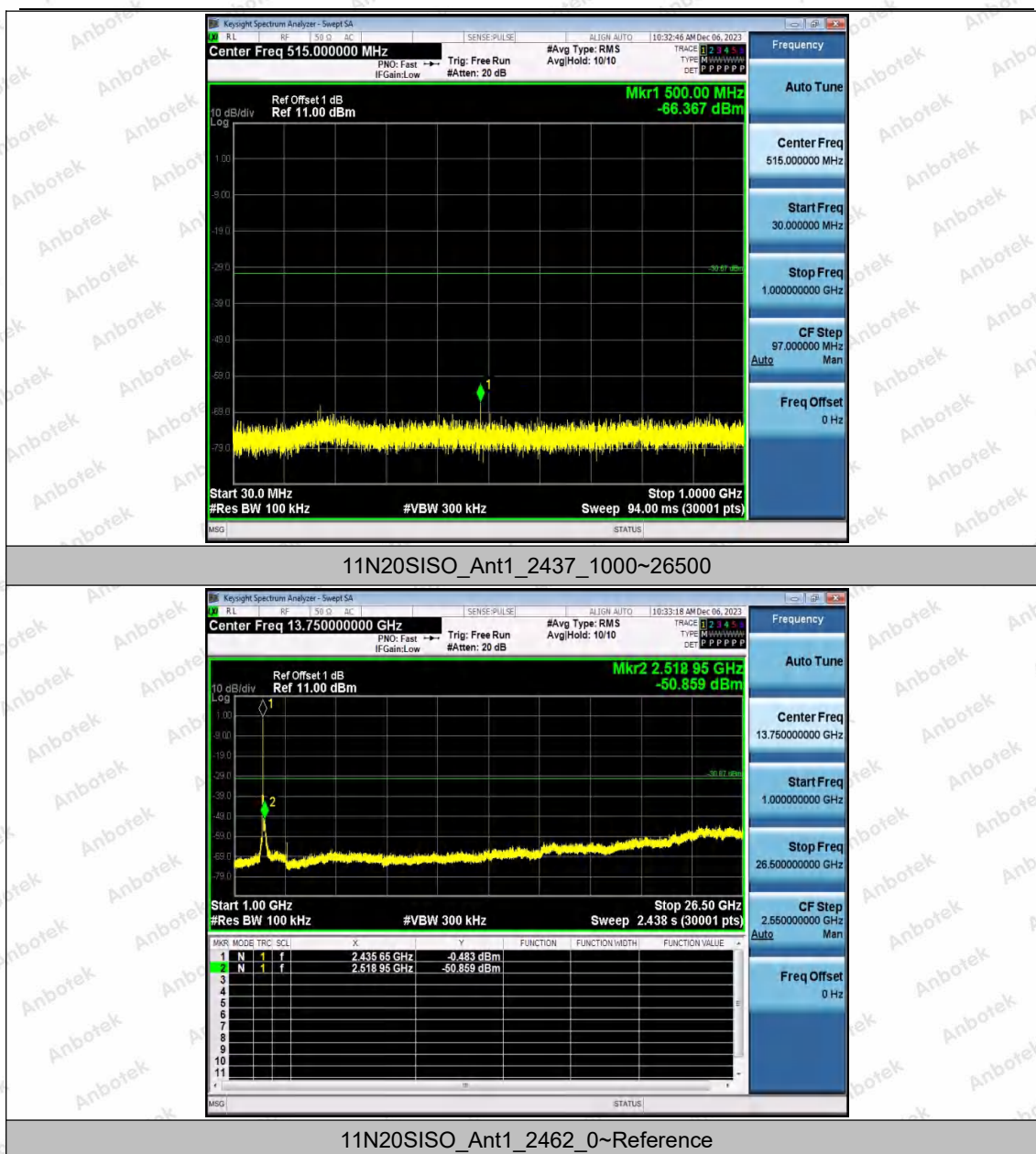
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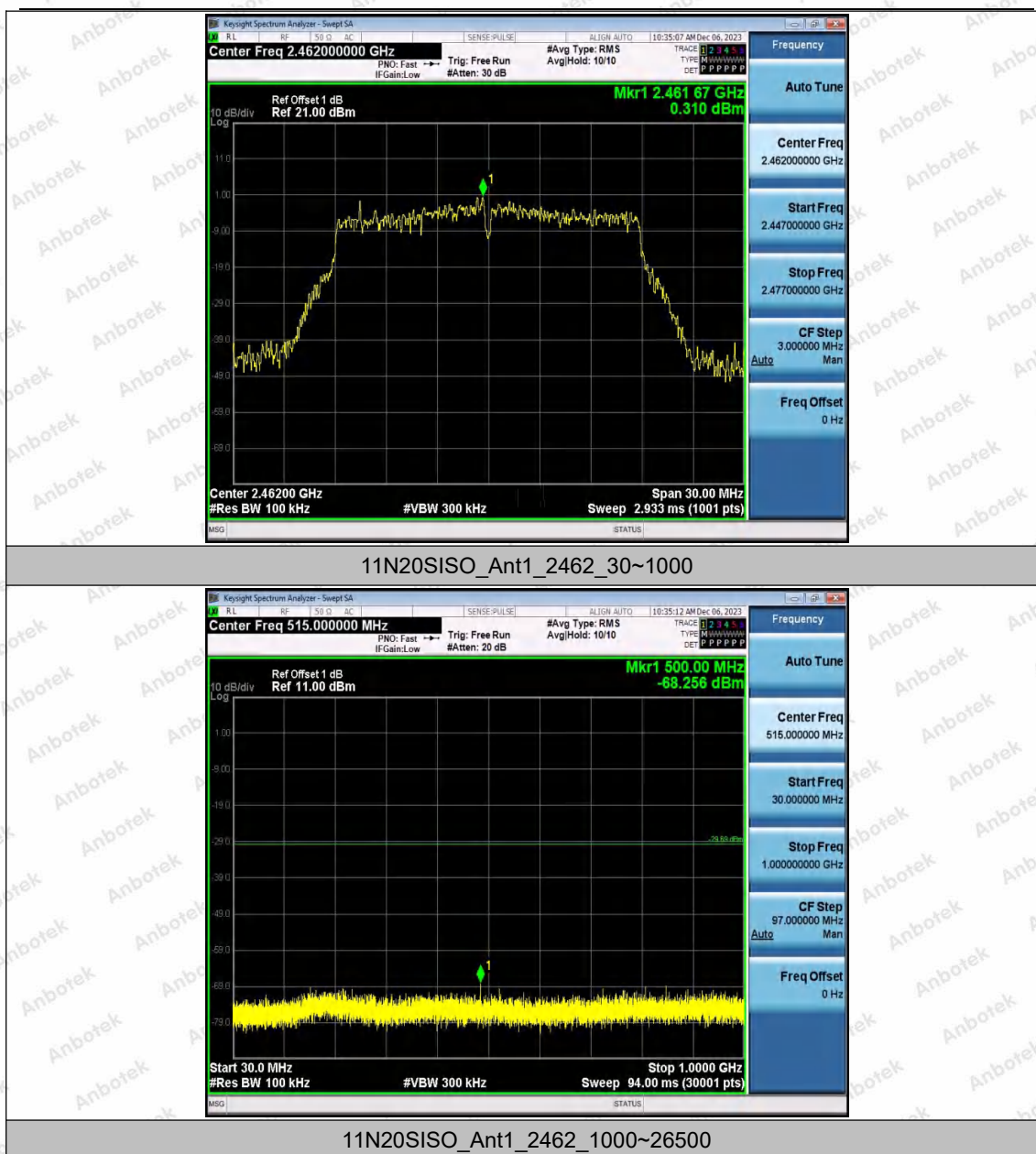
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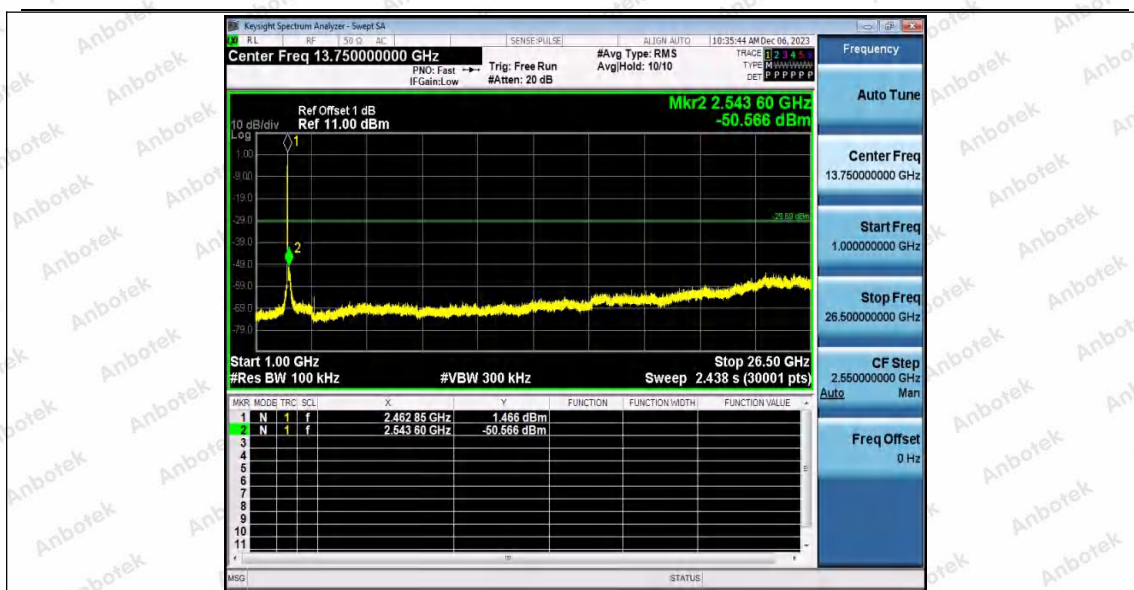
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Appendix G: Duty Cycle

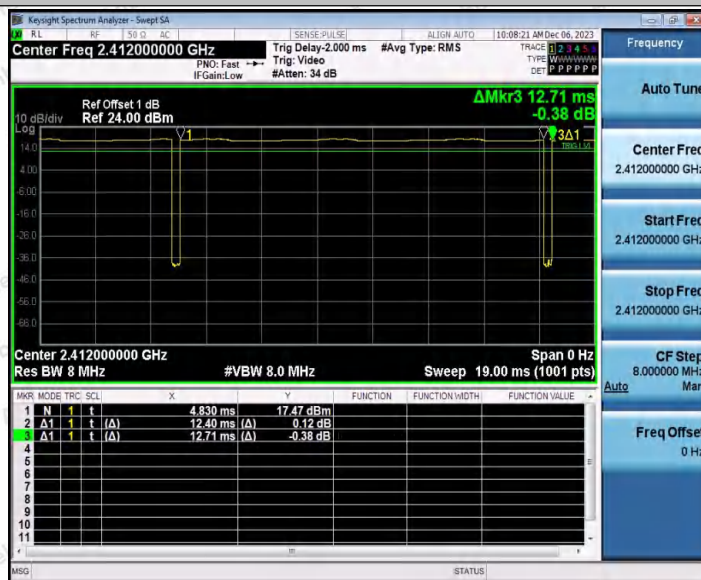
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.40	12.71	97.56	0.11
		2437	12.43	12.71	97.80	0.10
		2462	12.41	12.71	97.64	0.10
11G	Ant1	2412	2.07	2.37	87.34	0.59
		2437	2.06	2.36	87.29	0.59
		2462	2.07	2.37	87.34	0.59
11N20SISO	Ant1	2412	1.91	2.21	86.43	0.63
		2437	1.92	2.22	86.49	0.63
		2462	1.92	2.22	86.49	0.63

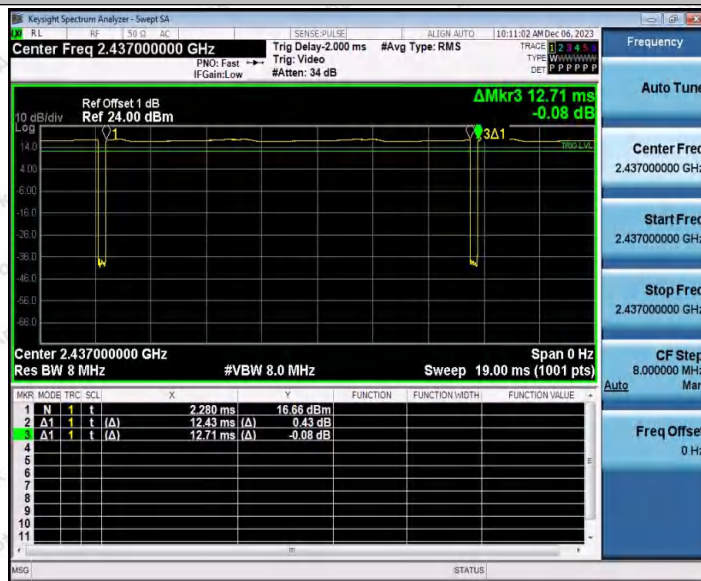


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

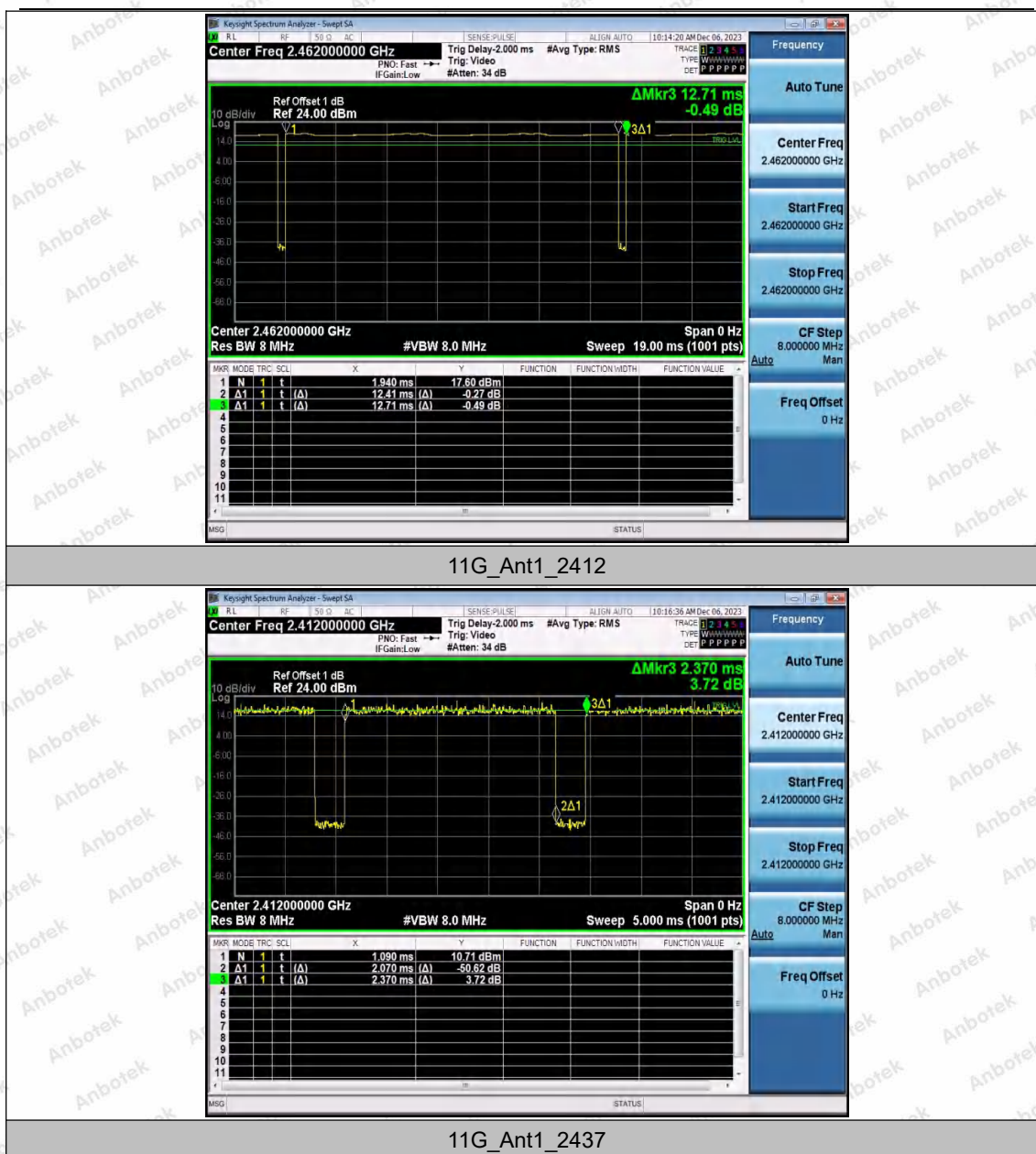
Shenzhen Anbotek Compliance Laboratory Limited

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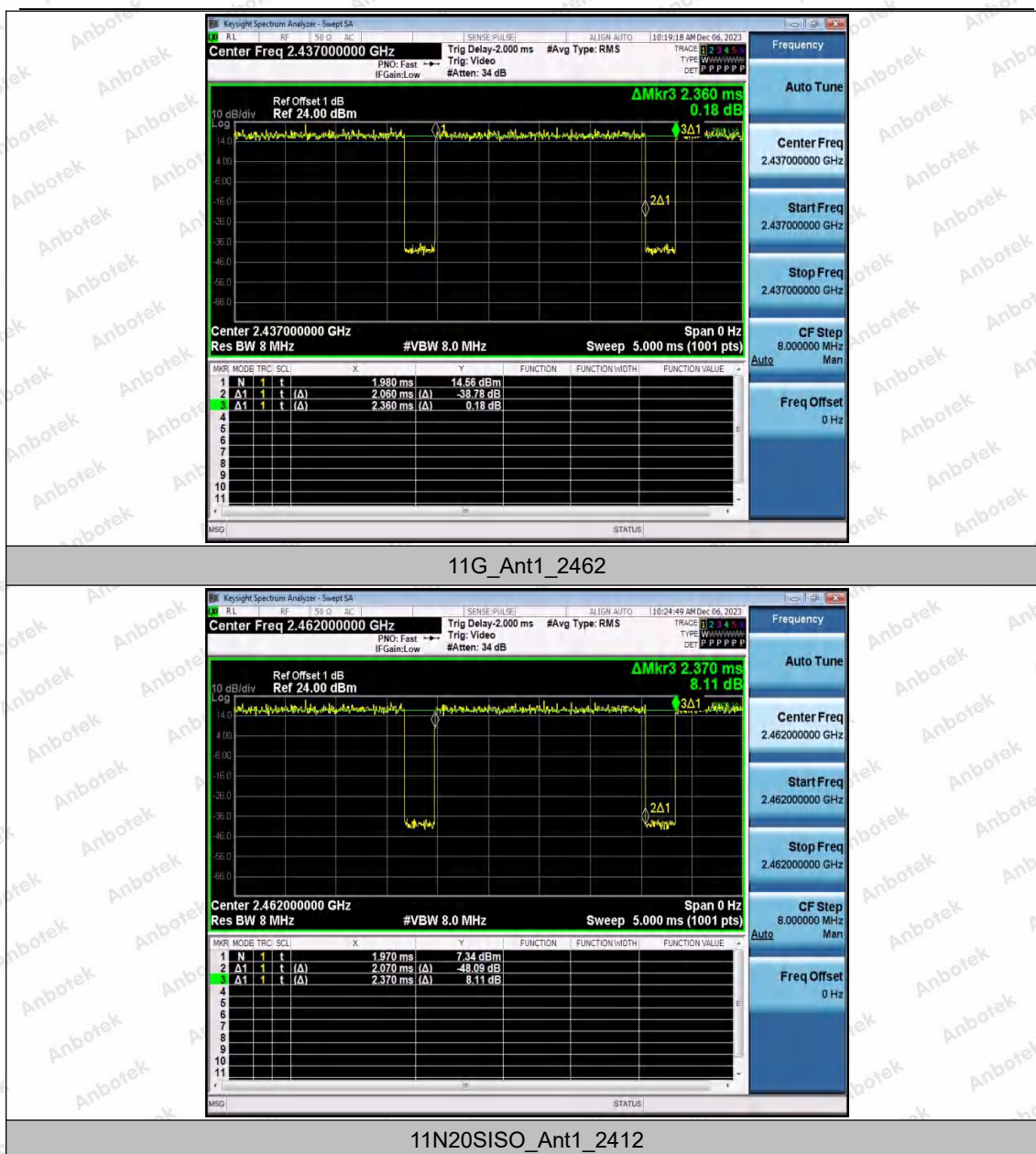
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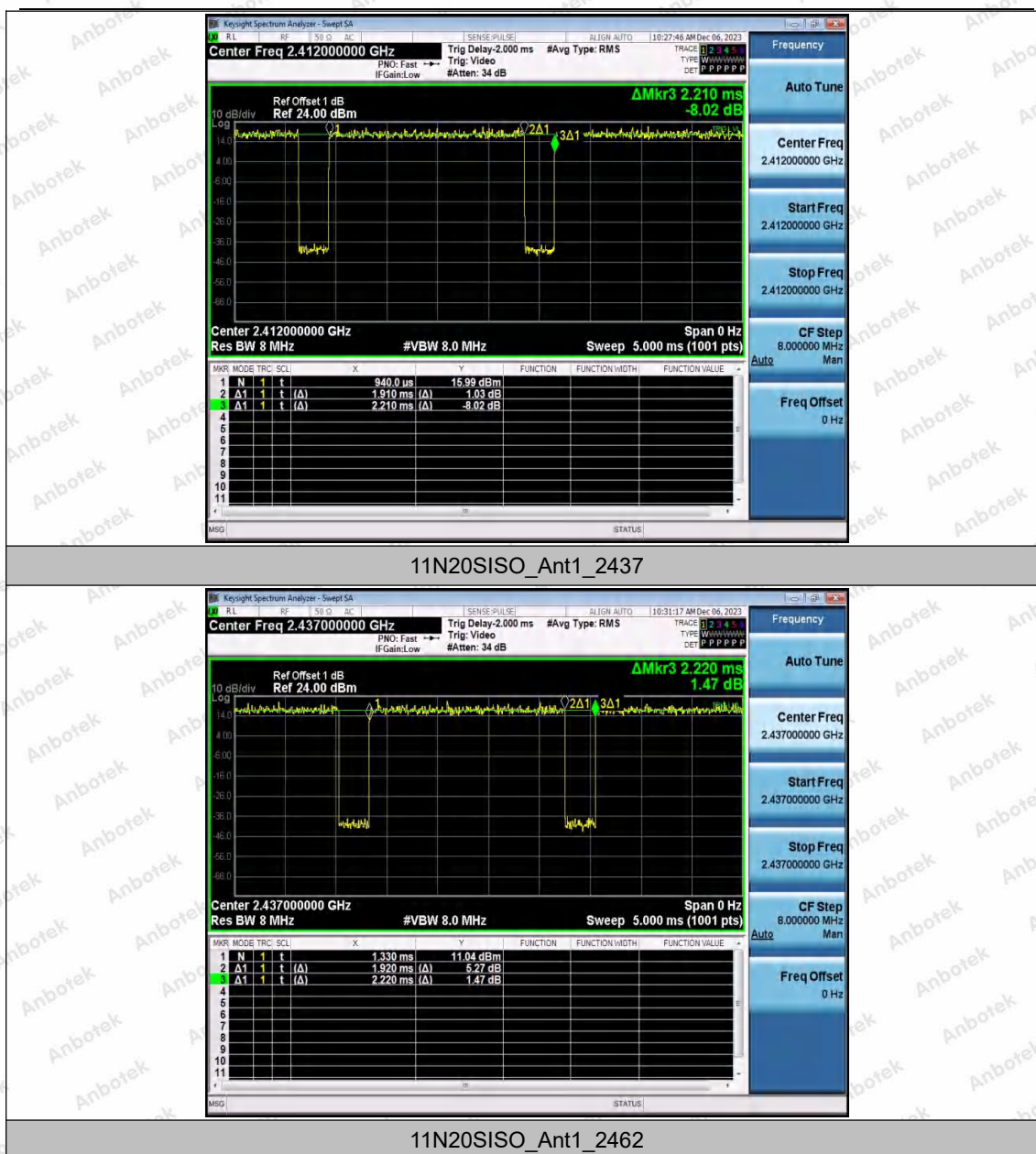
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