

Appendix Test Data

Report No.:	1811C50036812502	Test Sample No.:	1-2-2
Start Test Date:	2025.03.17	Finish Test Date:	2025.03.26
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.6°C	Relative Humidity:	42%
Pressure:	101kPa		

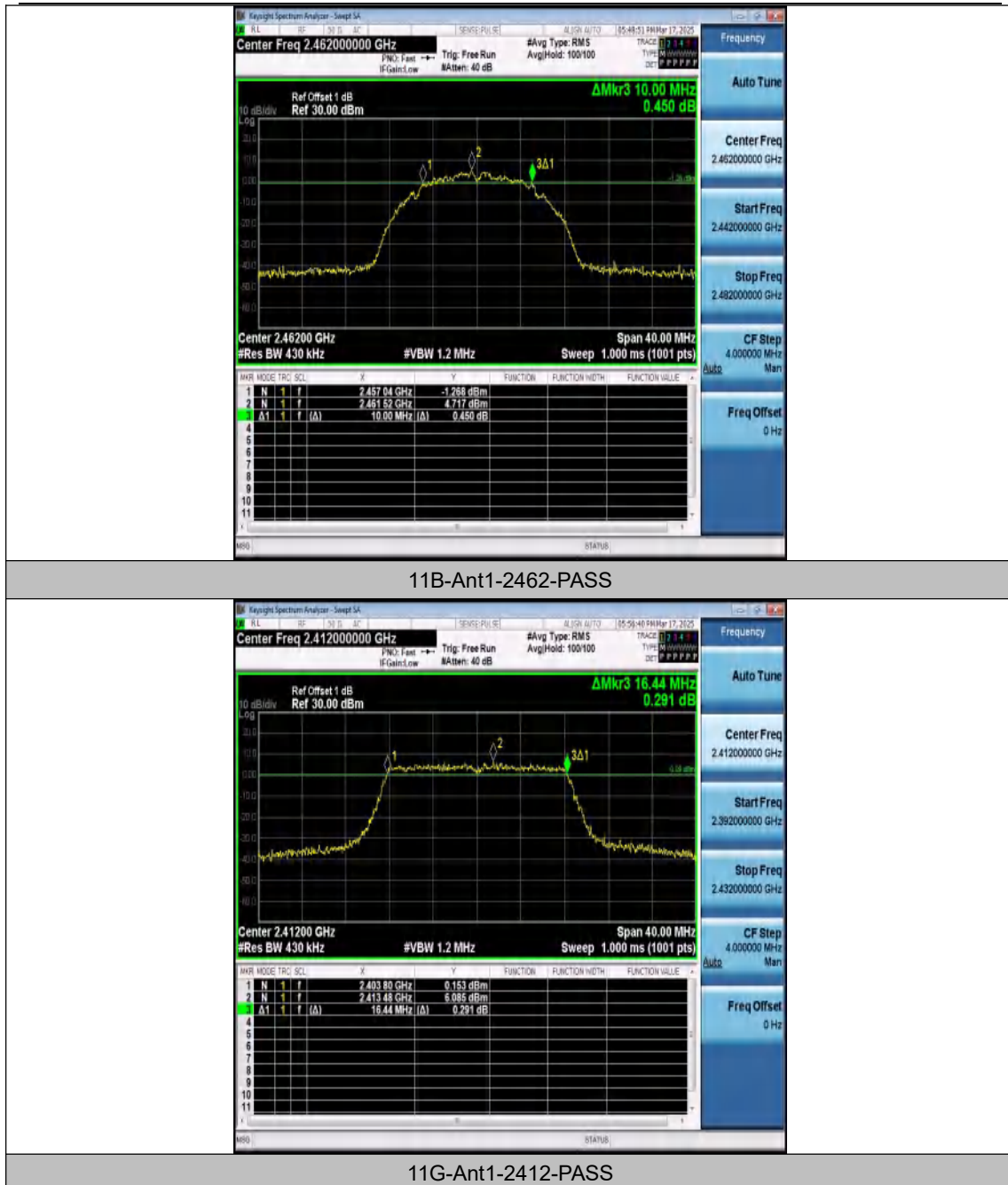
Appendix A: 6dB Bandwidth

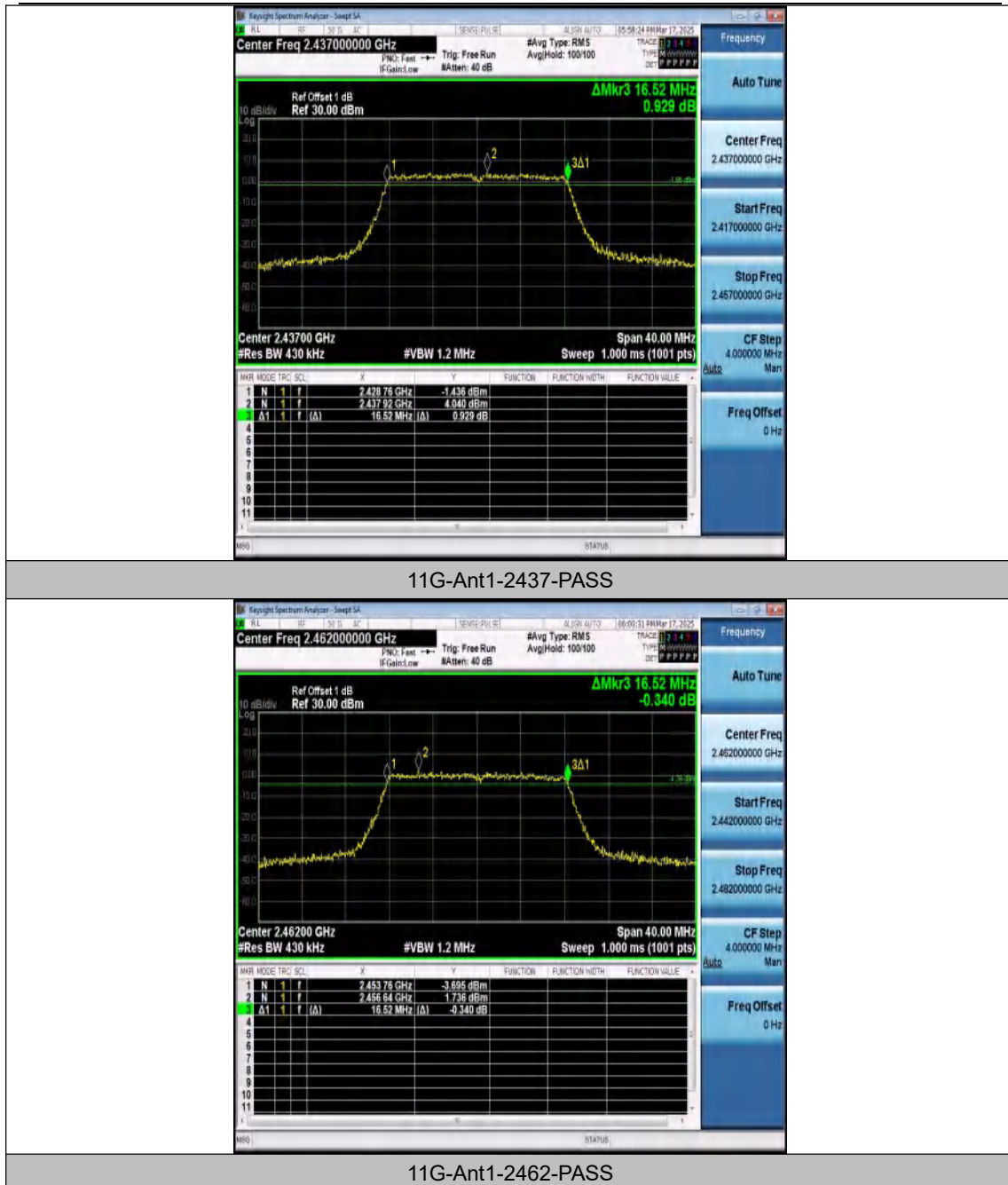
Test Result

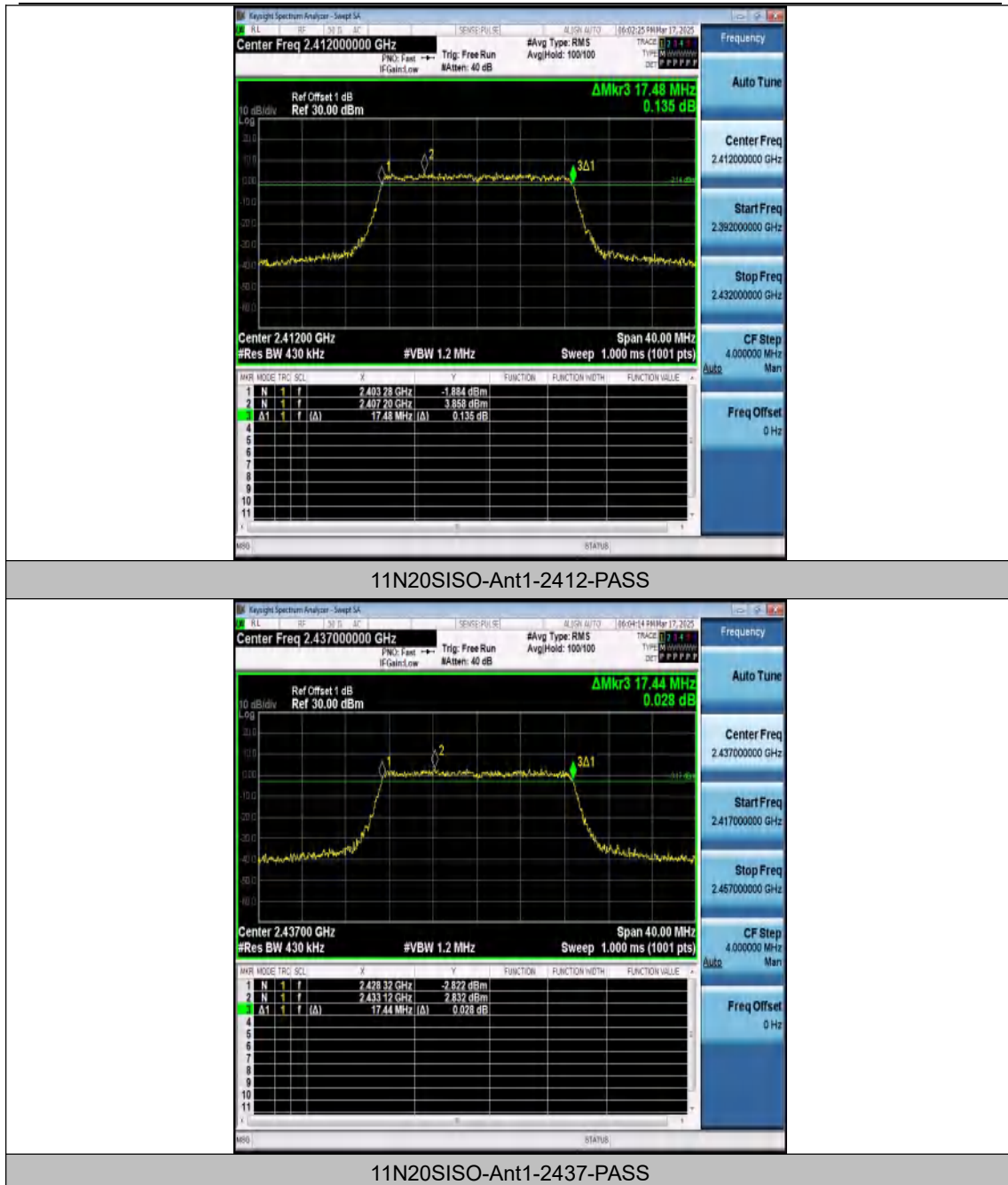
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.960	2407.120	2417.080	0.5	PASS
11B	Ant1	2437	9.680	2432.240	2441.920	0.5	PASS
11B	Ant1	2462	10.000	2457.040	2467.040	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
11G	Ant1	2437	16.520	2428.760	2445.280	0.5	PASS
11G	Ant1	2462	16.520	2453.760	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.480	2403.280	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.440	2428.320	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.360	2453.320	2470.680	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.080	2439.920	0.5	PASS
11N40SISO	Ant1	2437	35.840	2419.080	2454.920	0.5	PASS
11N40SISO	Ant1	2452	35.840	2434.080	2469.920	0.5	PASS

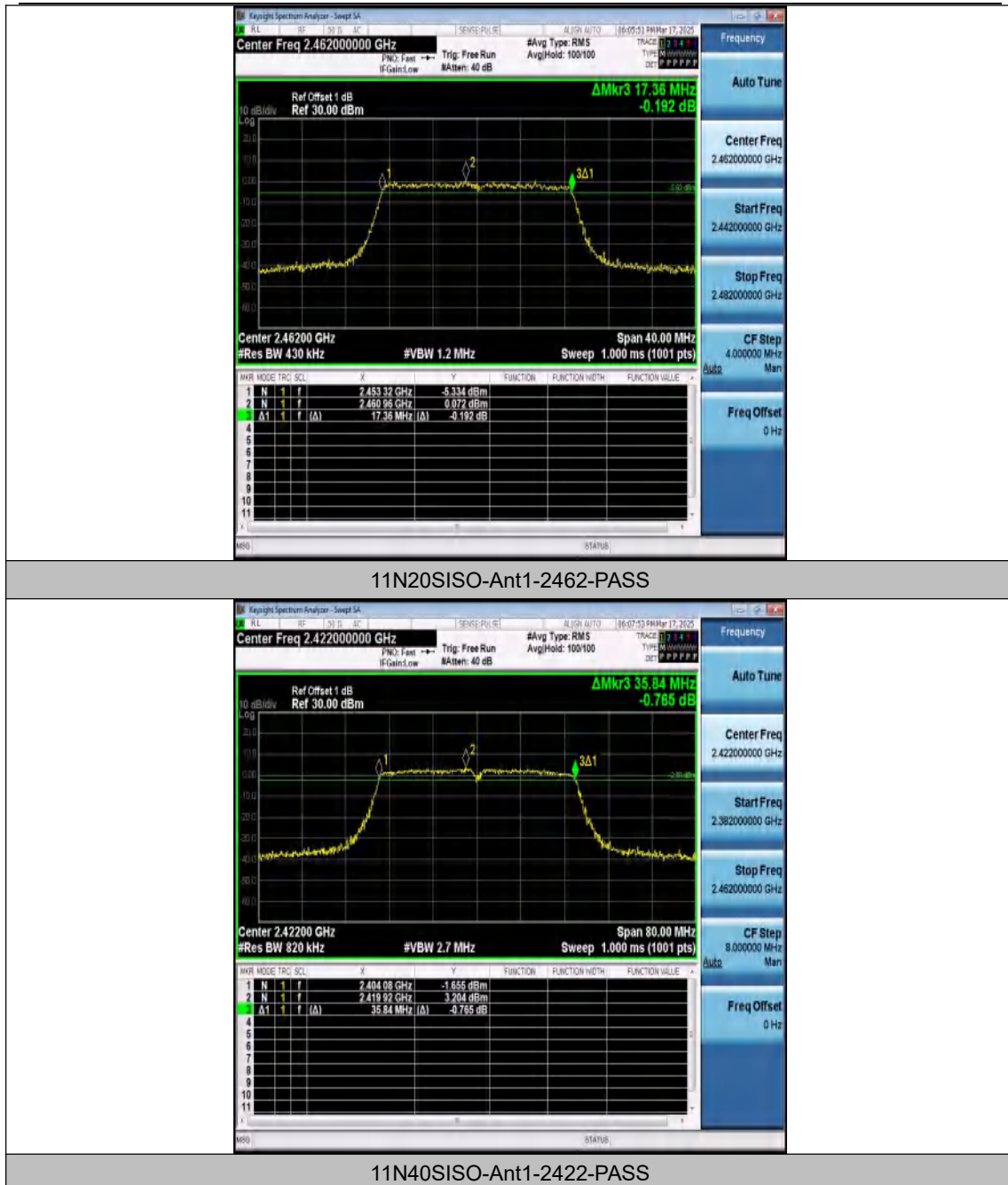
Test Graphs

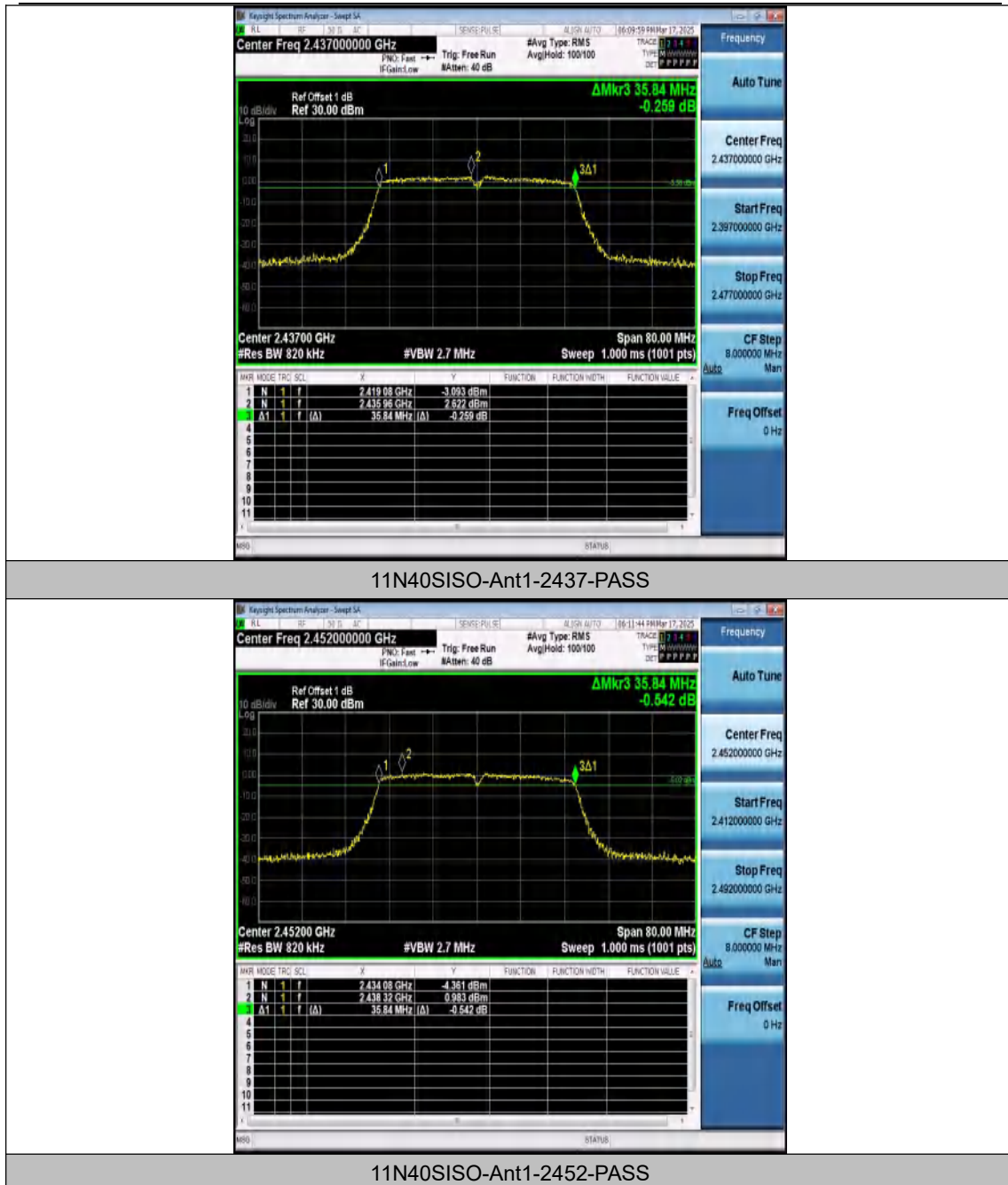












Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.053	2405.4741	2418.5271	---	---
11B	Ant1	2437	13.037	2430.4877	2443.5247	---	---
11B	Ant1	2462	12.985	2455.4708	2468.4558	---	---
11G	Ant1	2412	16.774	2403.6460	2420.4200	---	---
11G	Ant1	2437	16.849	2428.5872	2445.4362	---	---
11G	Ant1	2462	16.787	2453.6250	2470.4120	---	---
11N20SISO	Ant1	2412	17.591	2403.2242	2420.8152	---	---
11N20SISO	Ant1	2437	17.583	2428.2437	2445.8267	---	---
11N20SISO	Ant1	2462	17.596	2453.2140	2470.8100	---	---
11N40SISO	Ant1	2422	36.147	2403.9487	2440.0957	---	---
11N40SISO	Ant1	2437	36.055	2418.9885	2455.0435	---	---
11N40SISO	Ant1	2452	36.119	2433.9373	2470.0563	---	---

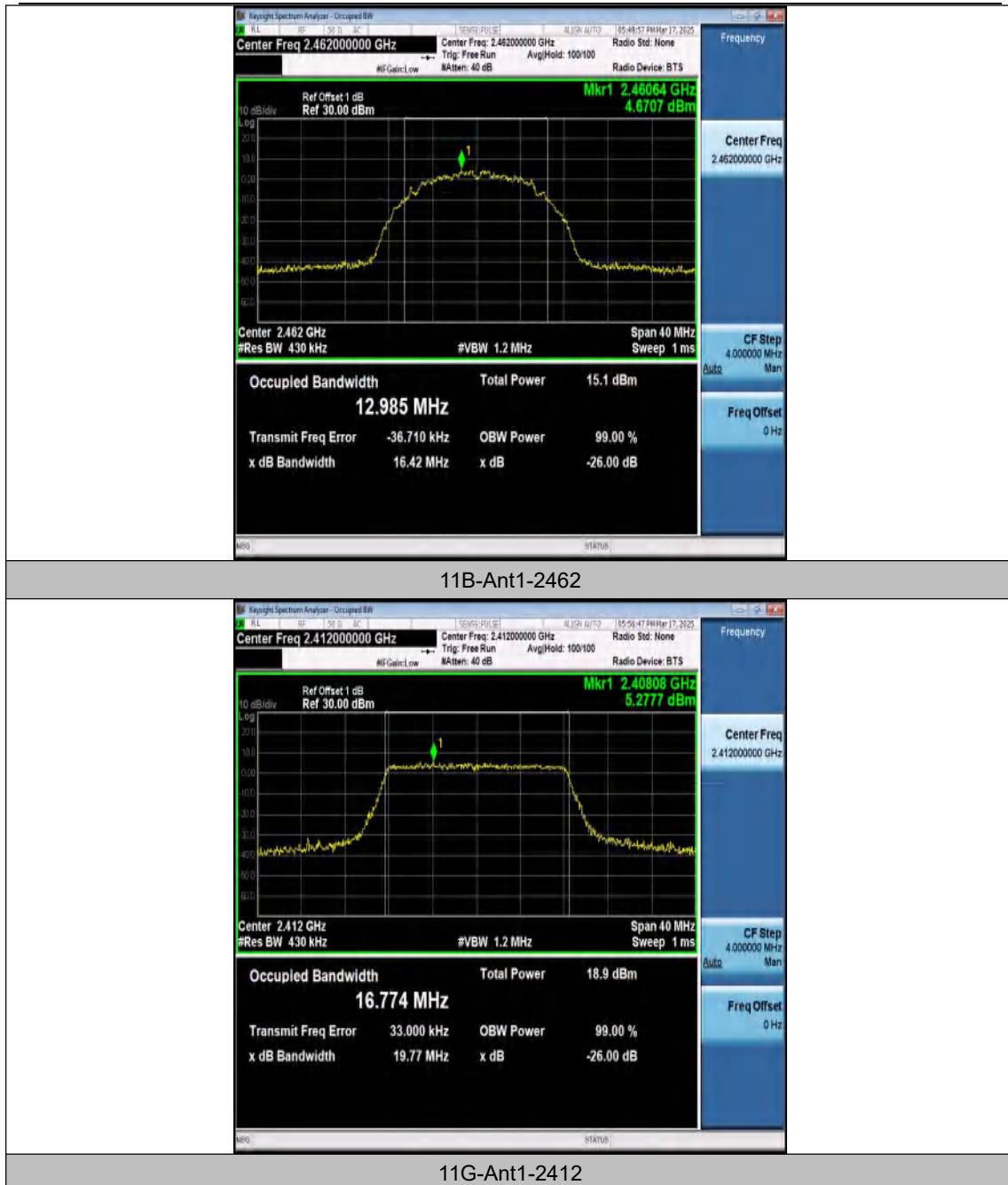
Test Graphs

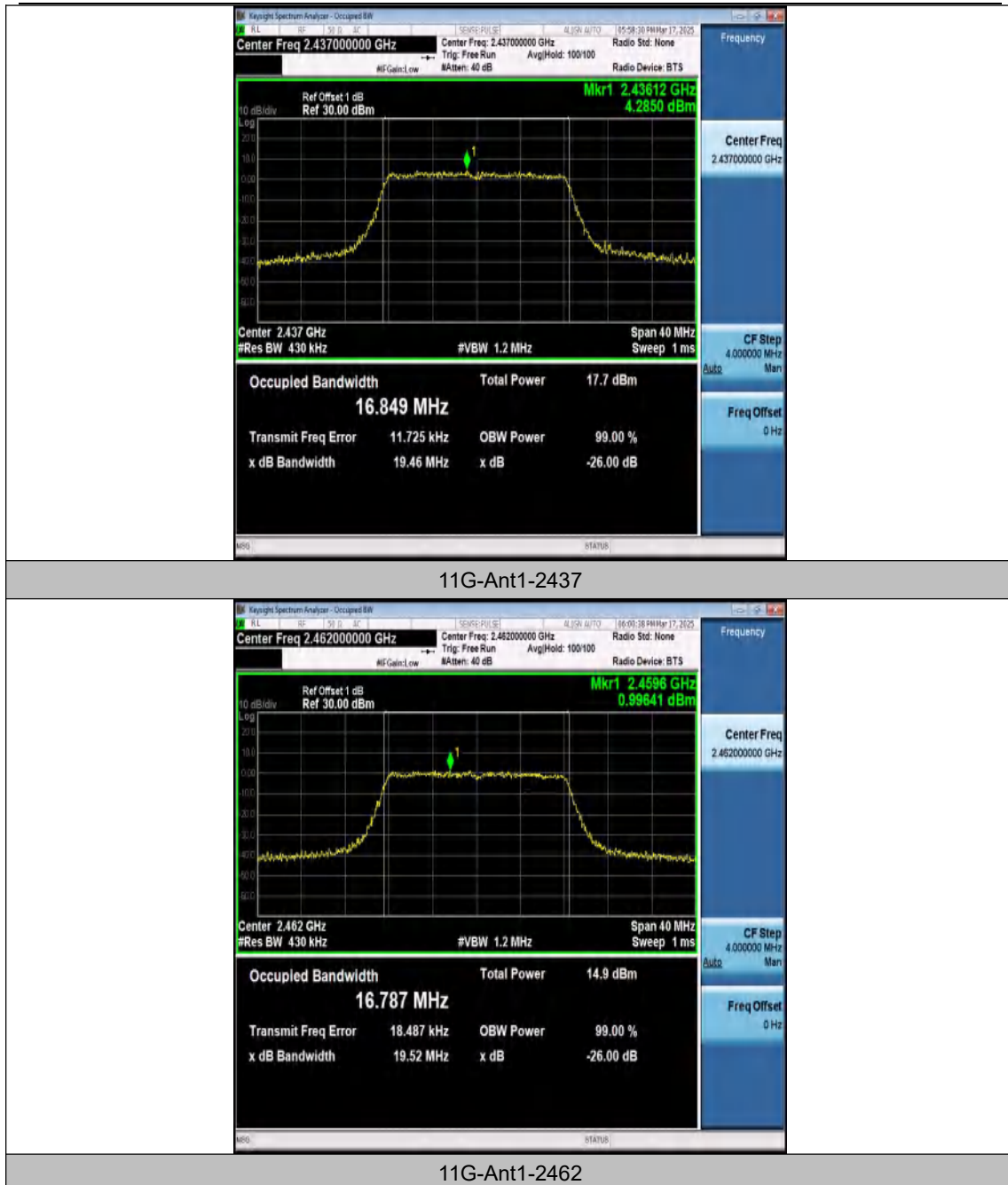


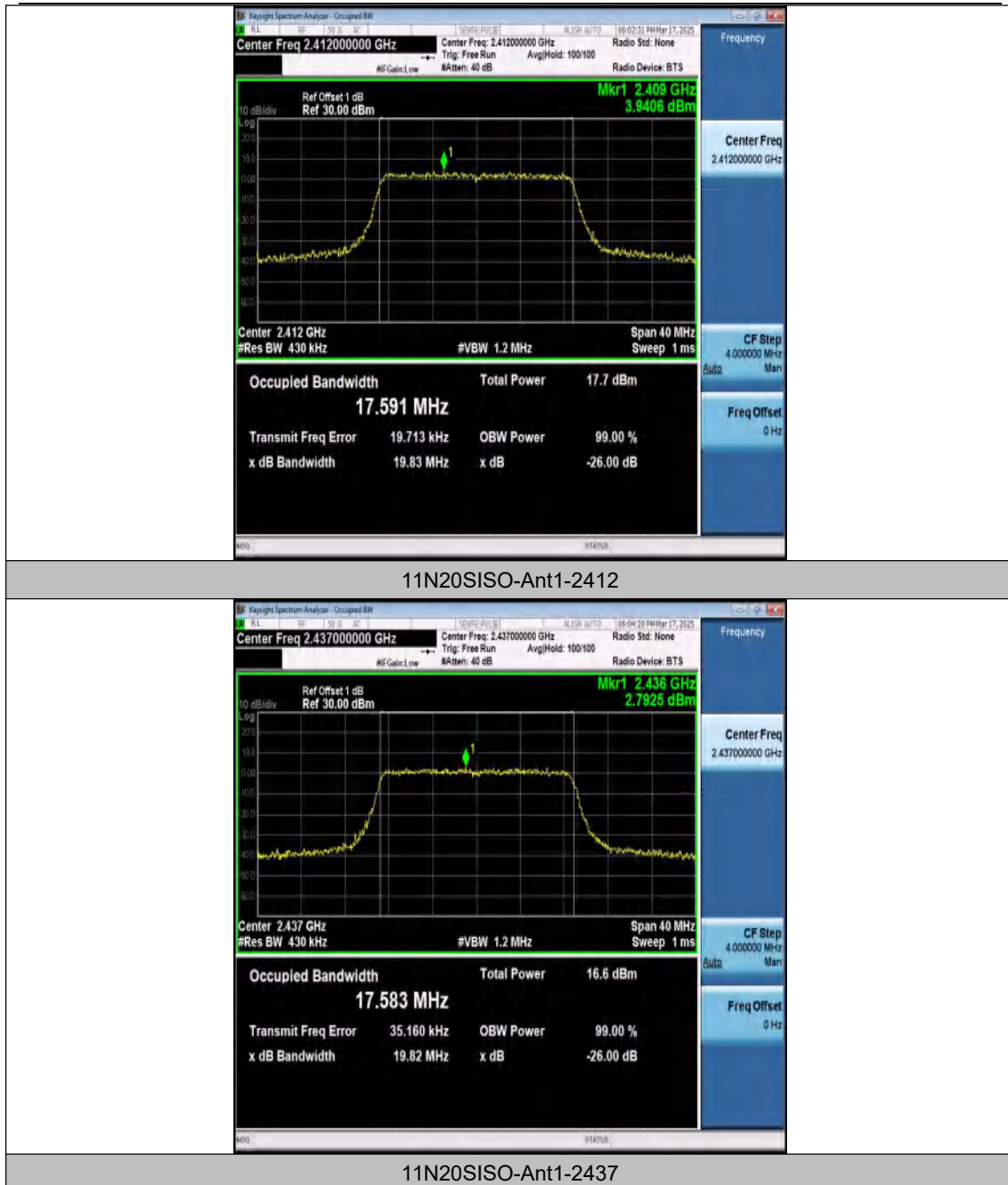
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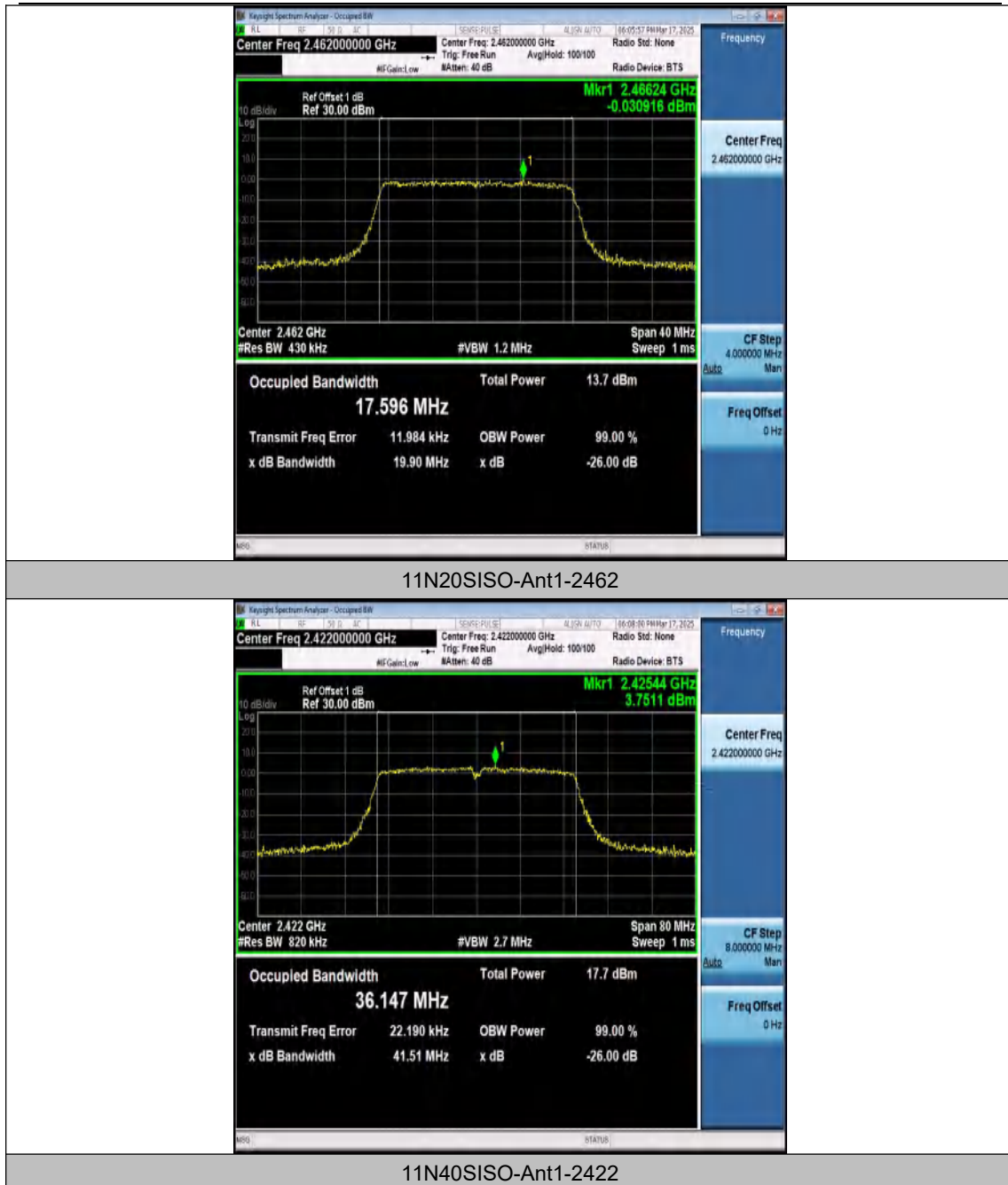
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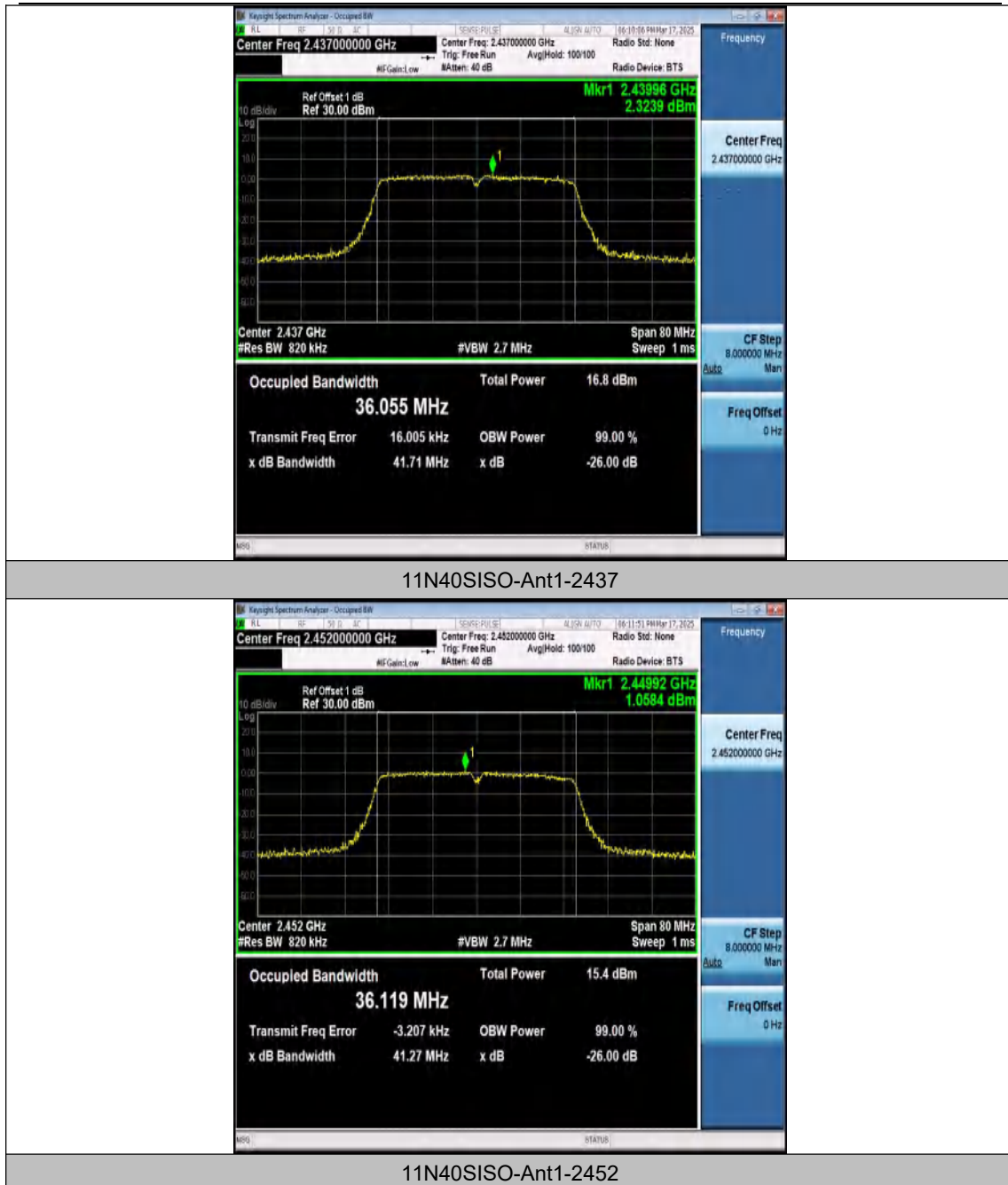
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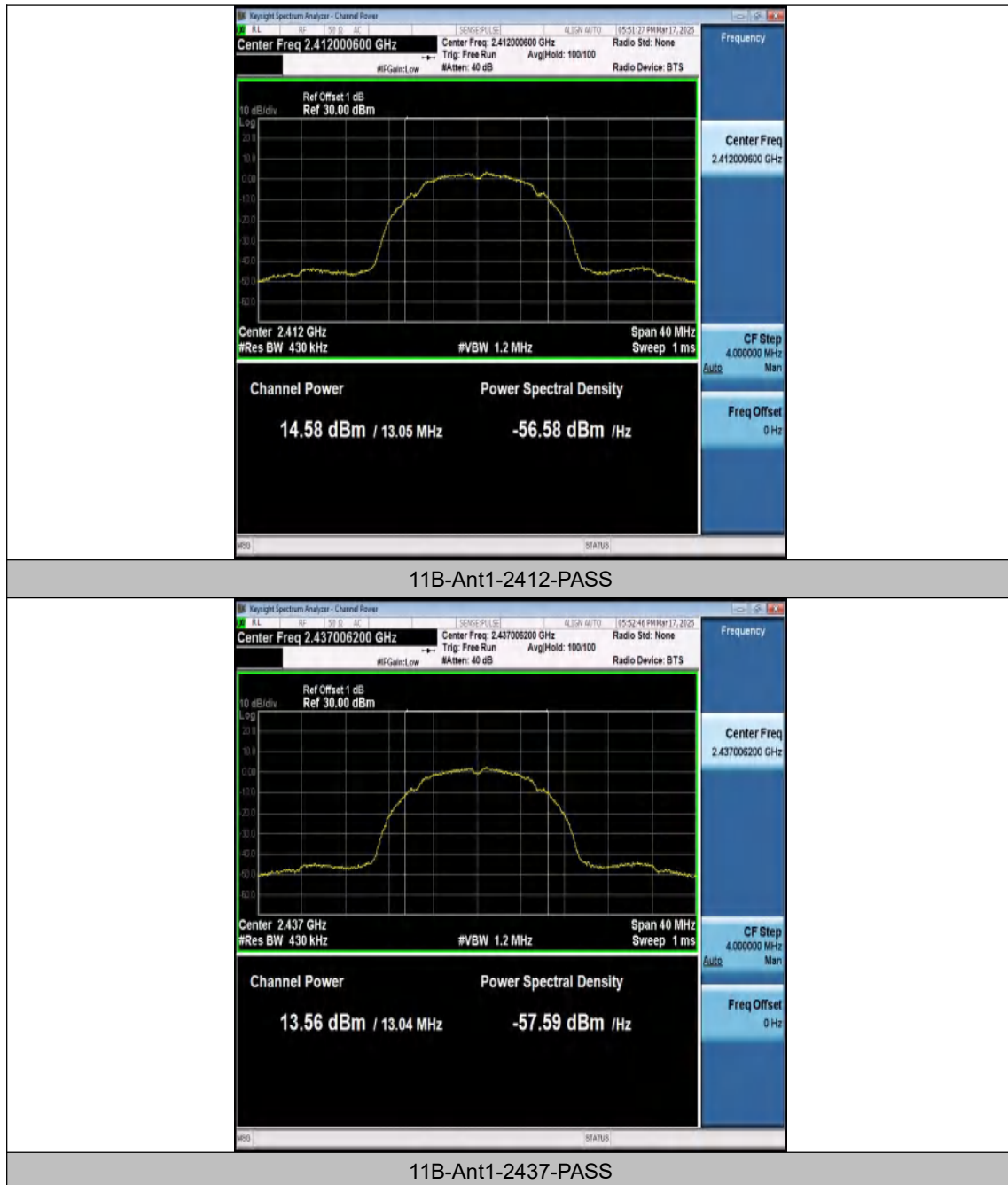
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.58	100.00	0.00	14.58	≤30.00	PASS
11B	Ant1	2437	13.56	100.00	0.00	13.56	≤30.00	PASS
11B	Ant1	2462	12.07	100.00	0.00	12.07	≤30.00	PASS
11G	Ant1	2412	13.15	100.00	0.00	13.15	≤30.00	PASS
11G	Ant1	2437	11.65	100.00	0.00	11.65	≤30.00	PASS
11G	Ant1	2462	10.97	100.00	0.00	10.97	≤30.00	PASS
11N20SISO	Ant1	2412	11.52	100.00	0.00	11.52	≤30.00	PASS
11N20SISO	Ant1	2437	10.32	100.00	0.00	10.32	≤30.00	PASS
11N20SISO	Ant1	2462	9.64	100.00	0.00	9.64	≤30.00	PASS
11N40SISO	Ant1	2422	10.66	100.00	0.00	10.66	≤30.00	PASS
11N40SISO	Ant1	2437	9.80	100.00	0.00	9.80	≤30.00	PASS
11N40SISO	Ant1	2452	8.48	100.00	0.00	8.48	≤30.00	PASS

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

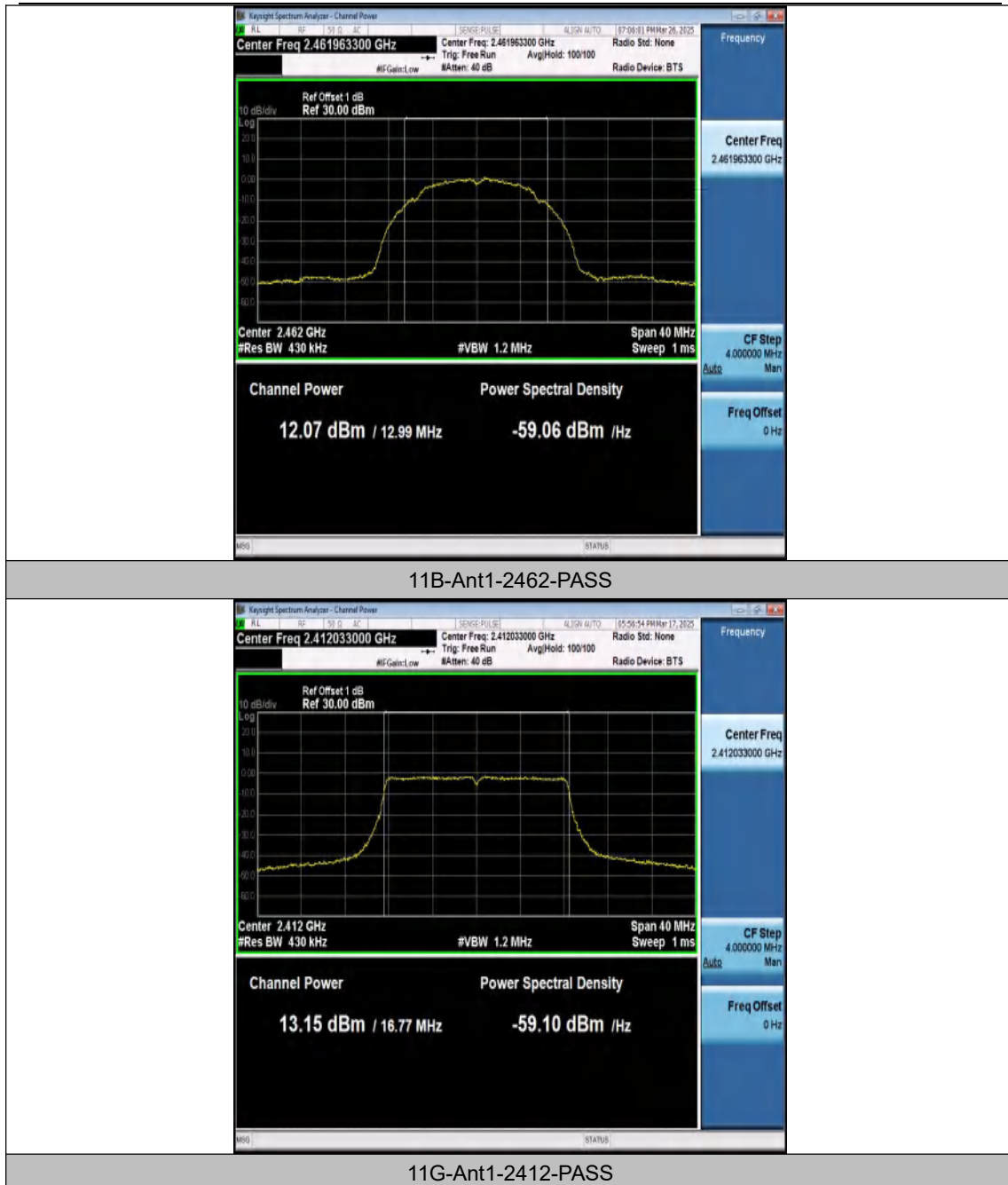
Test Graphs Average

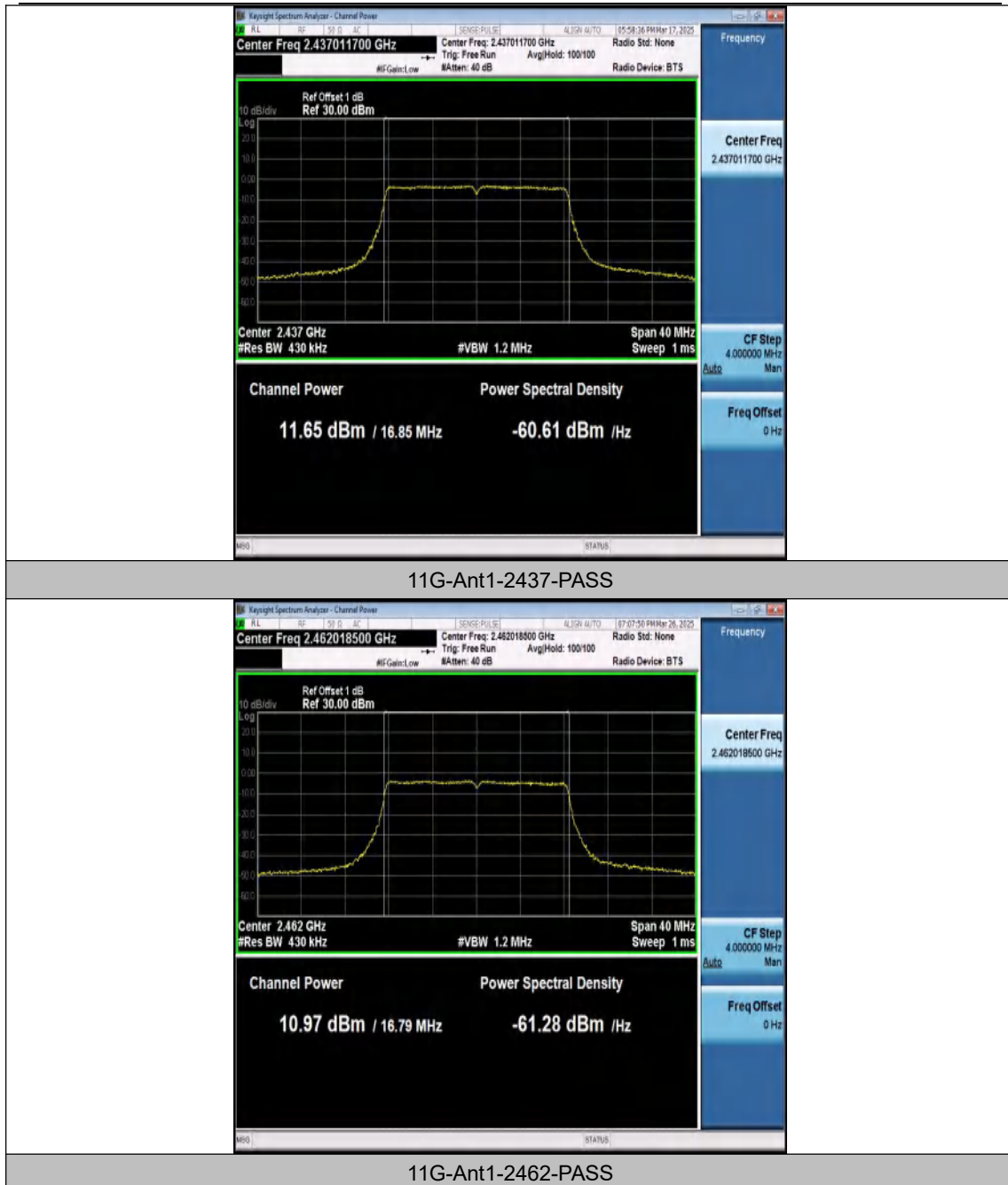


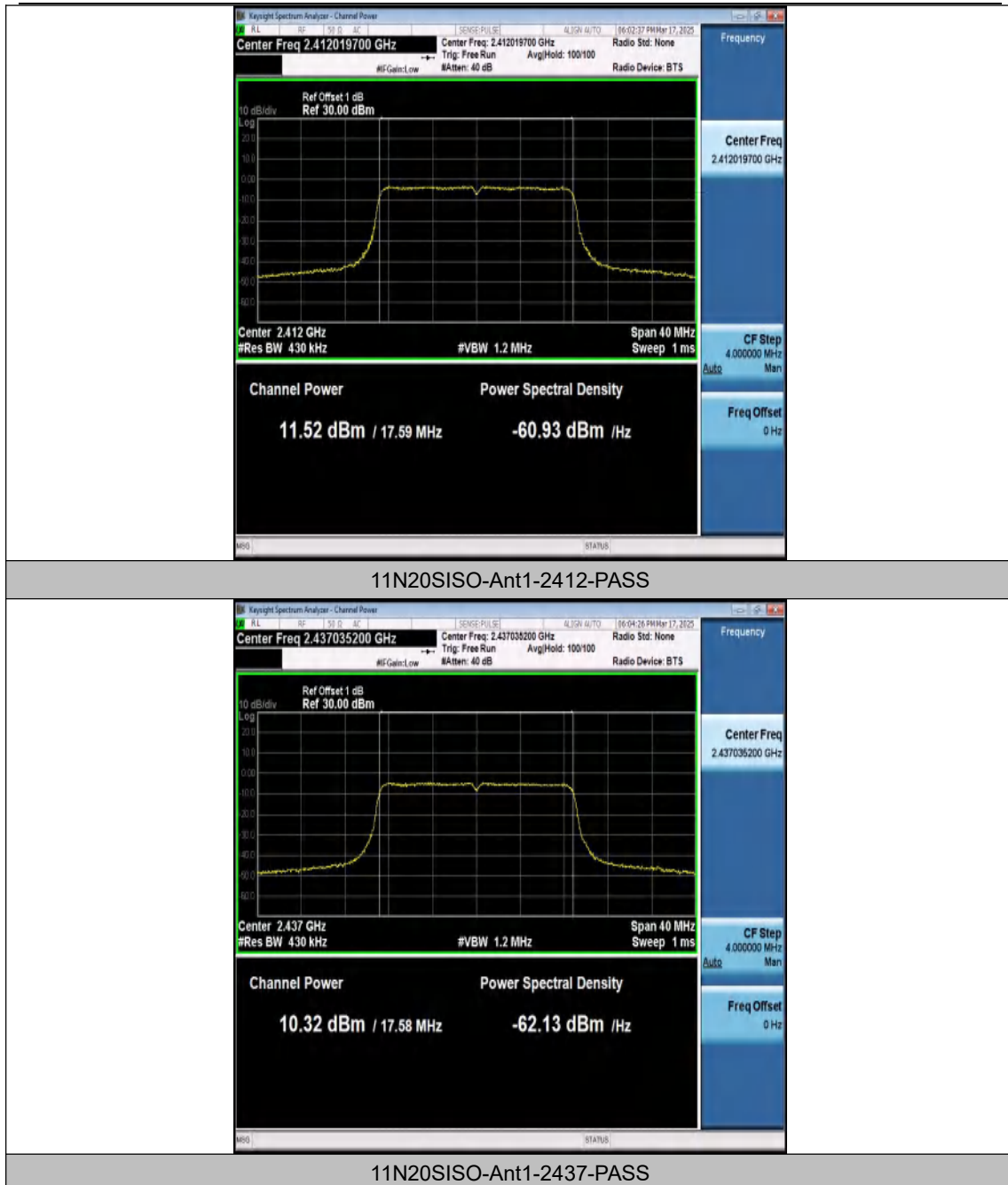
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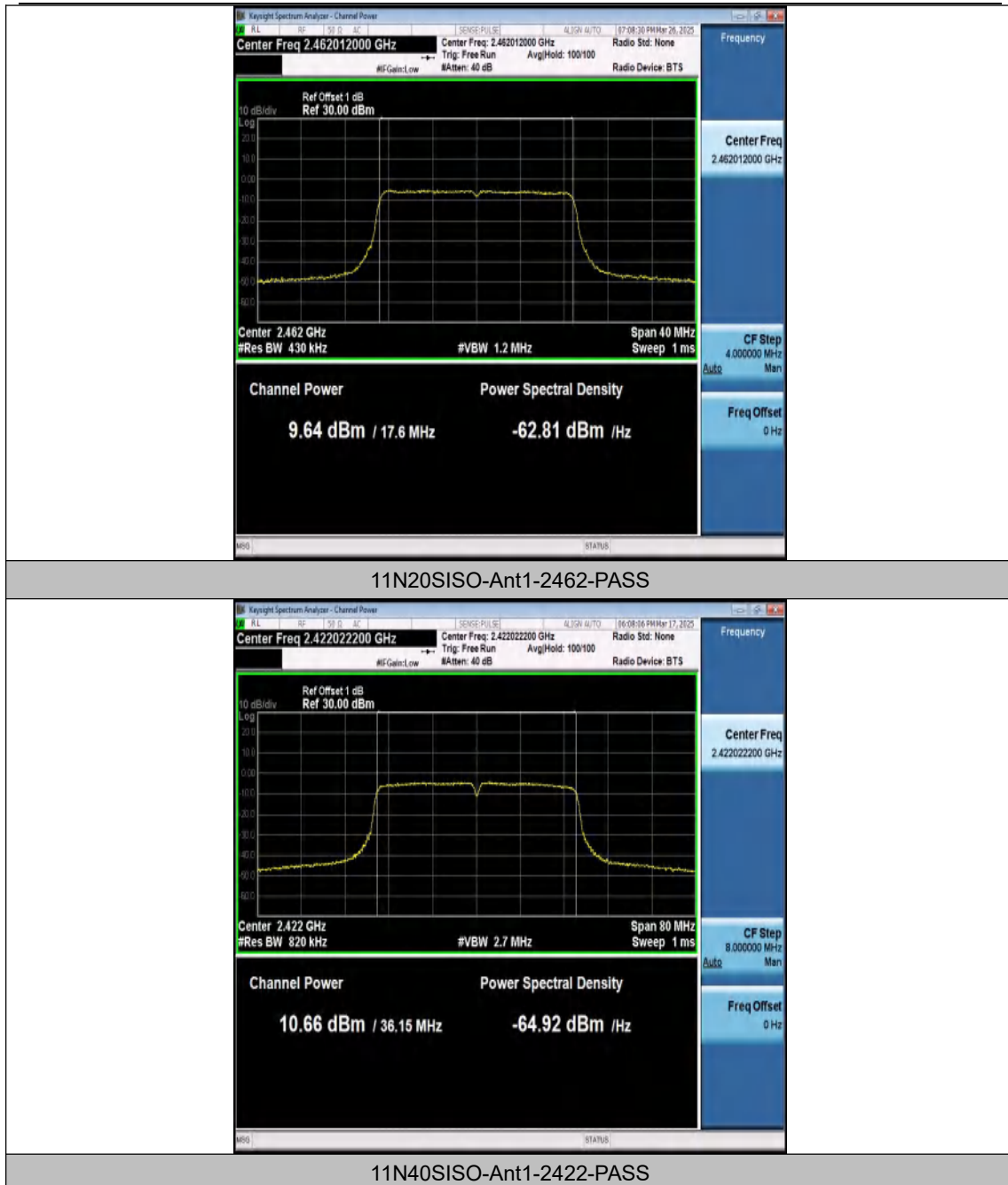
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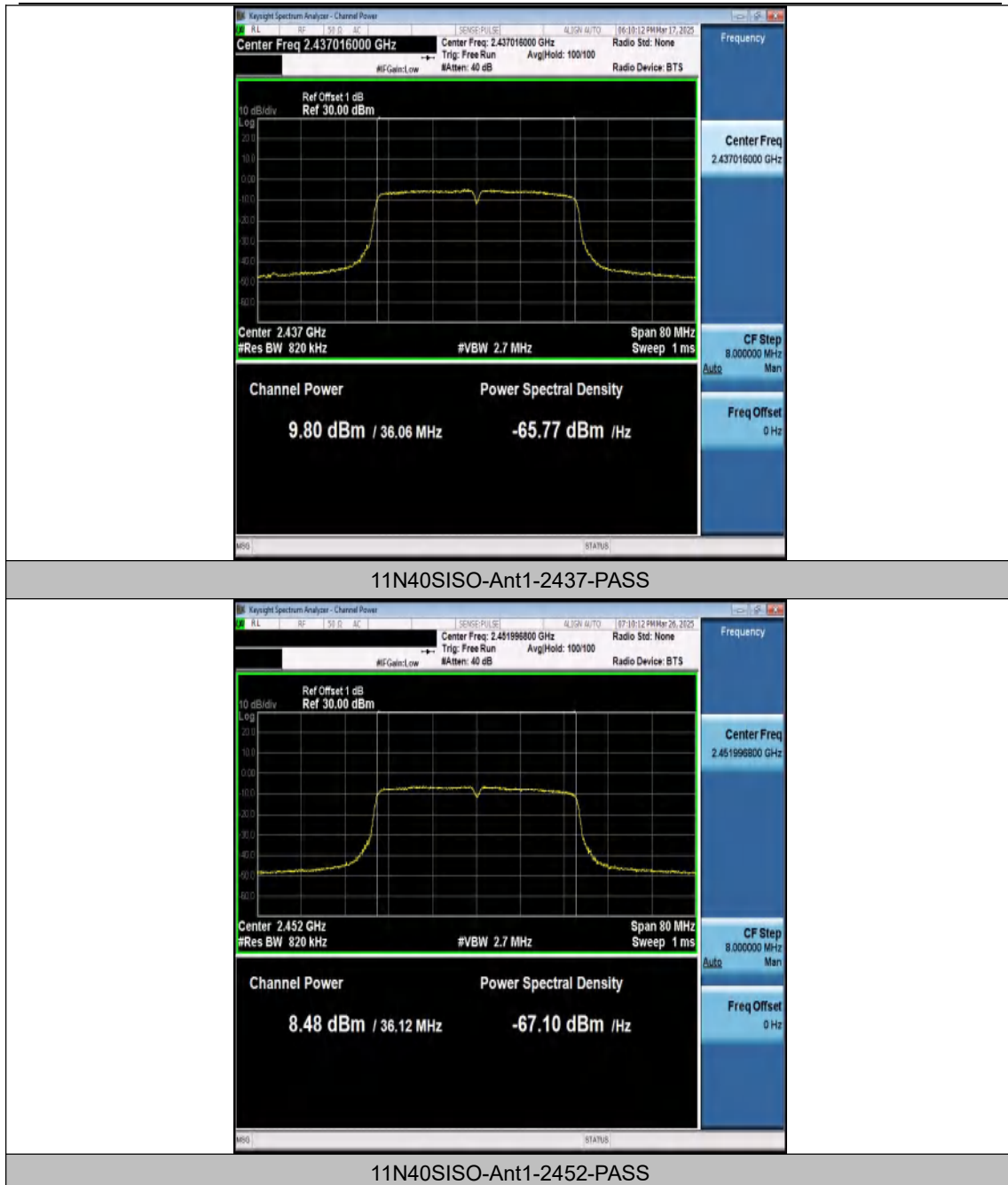
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Appendix D: Maximum power spectral density

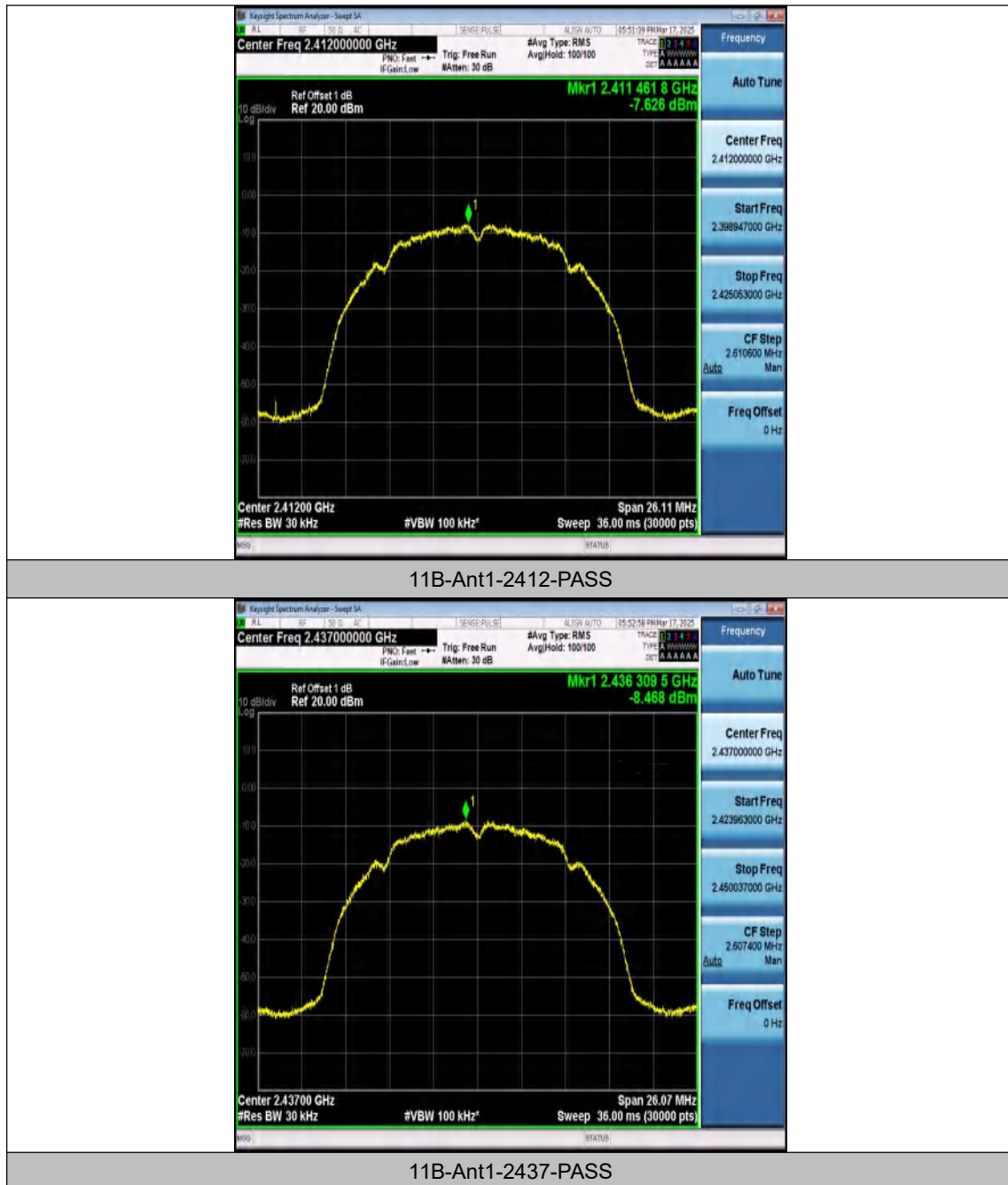
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.63	-17.63	≤8.00	PASS
11B	Ant1	2437	-8.47	-18.47	≤8.00	PASS
11B	Ant1	2462	-9.91	-19.91	≤8.00	PASS
11G	Ant1	2412	-11.16	-21.16	≤8.00	PASS
11G	Ant1	2437	-12.78	-22.78	≤8.00	PASS
11G	Ant1	2462	-13.42	-23.42	≤8.00	PASS
11N20SISO	Ant1	2412	-12.53	-22.53	≤8.00	PASS
11N20SISO	Ant1	2437	-14.15	-24.15	≤8.00	PASS
11N20SISO	Ant1	2462	-14.47	-24.47	≤8.00	PASS
11N40SISO	Ant1	2422	-16.14	-26.14	≤8.00	PASS
11N40SISO	Ant1	2437	-16.86	-26.86	≤8.00	PASS
11N40SISO	Ant1	2452	-17.05	-27.05	≤8.00	PASS

Note:

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

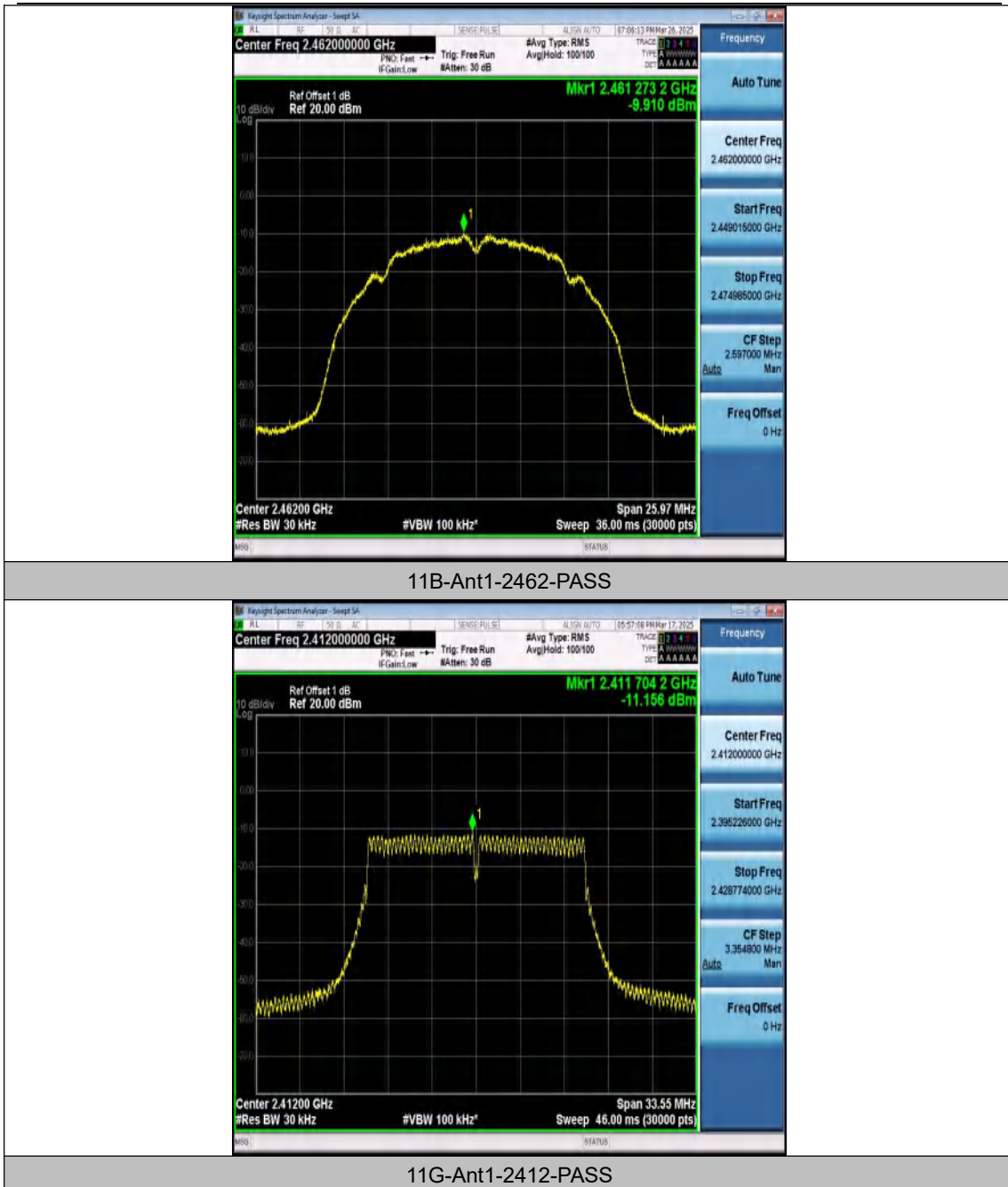
Test Graphs



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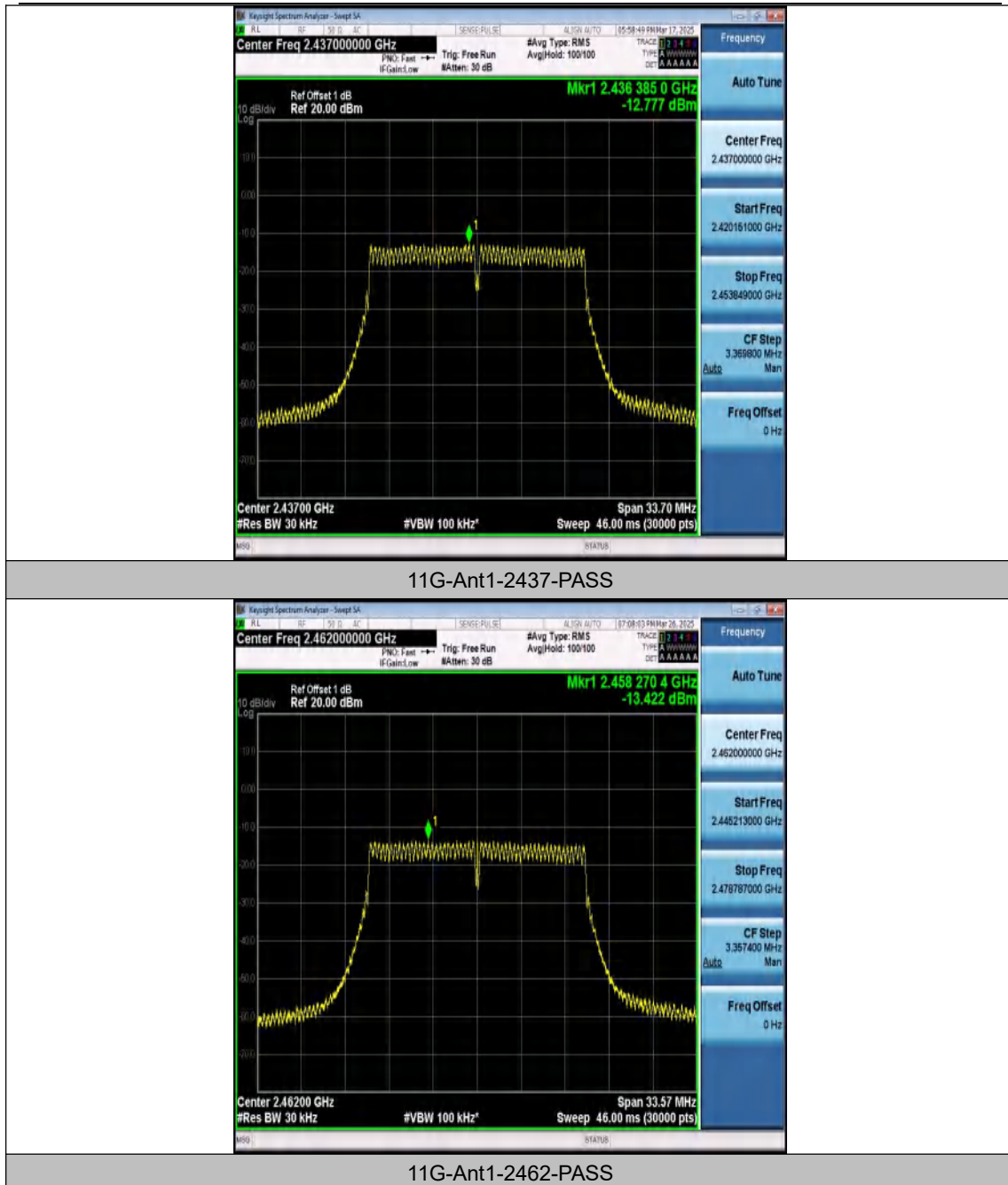
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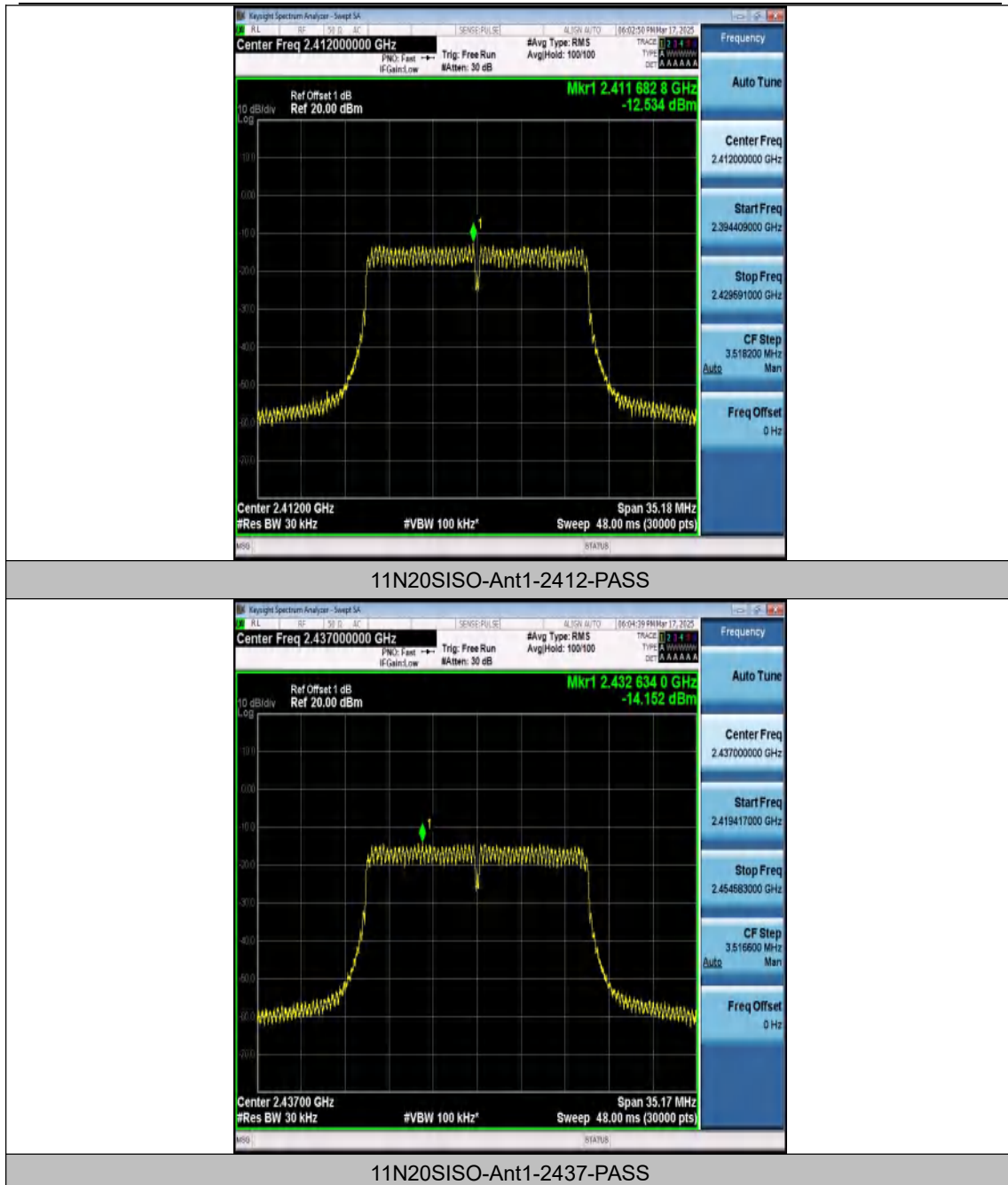
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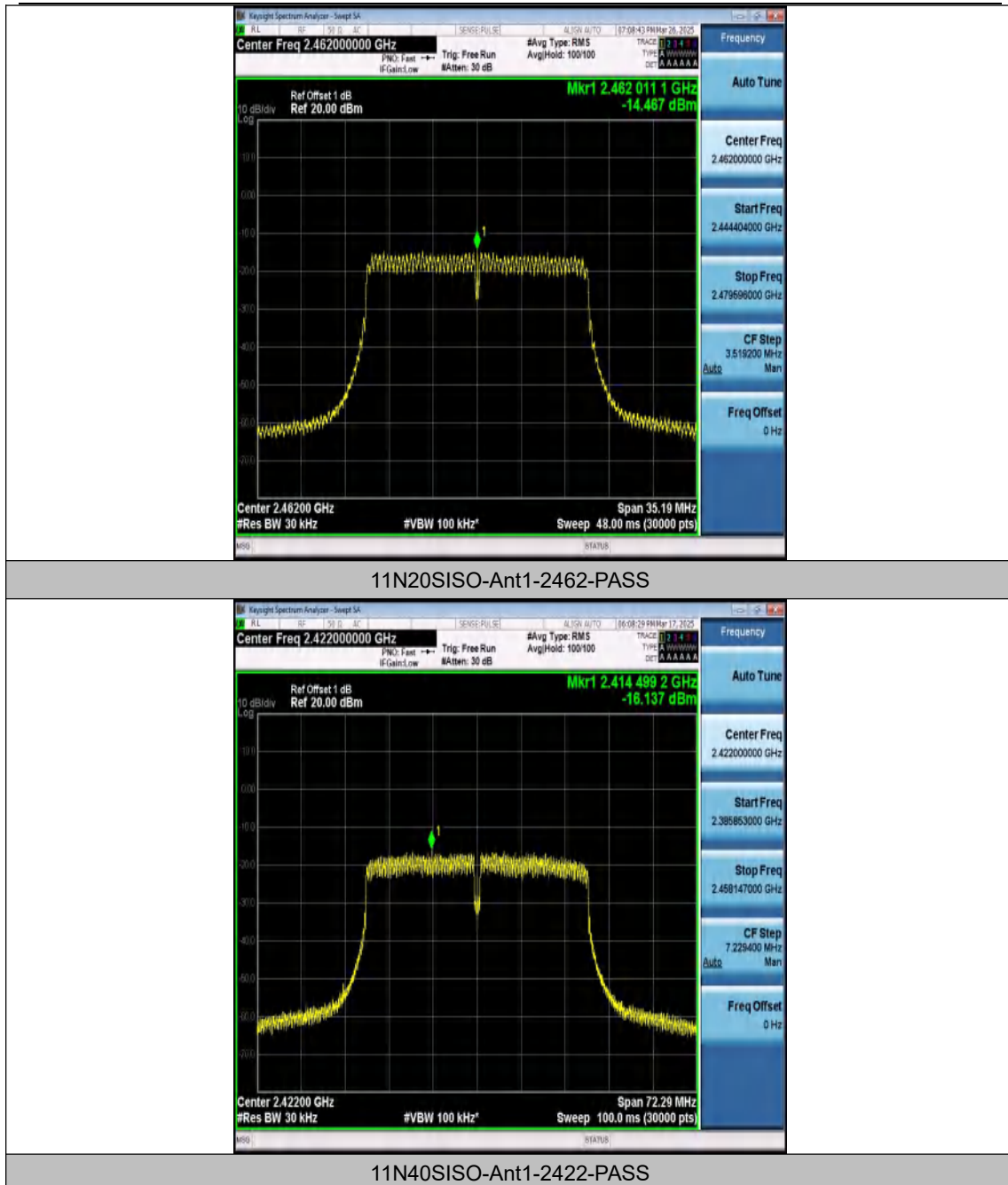


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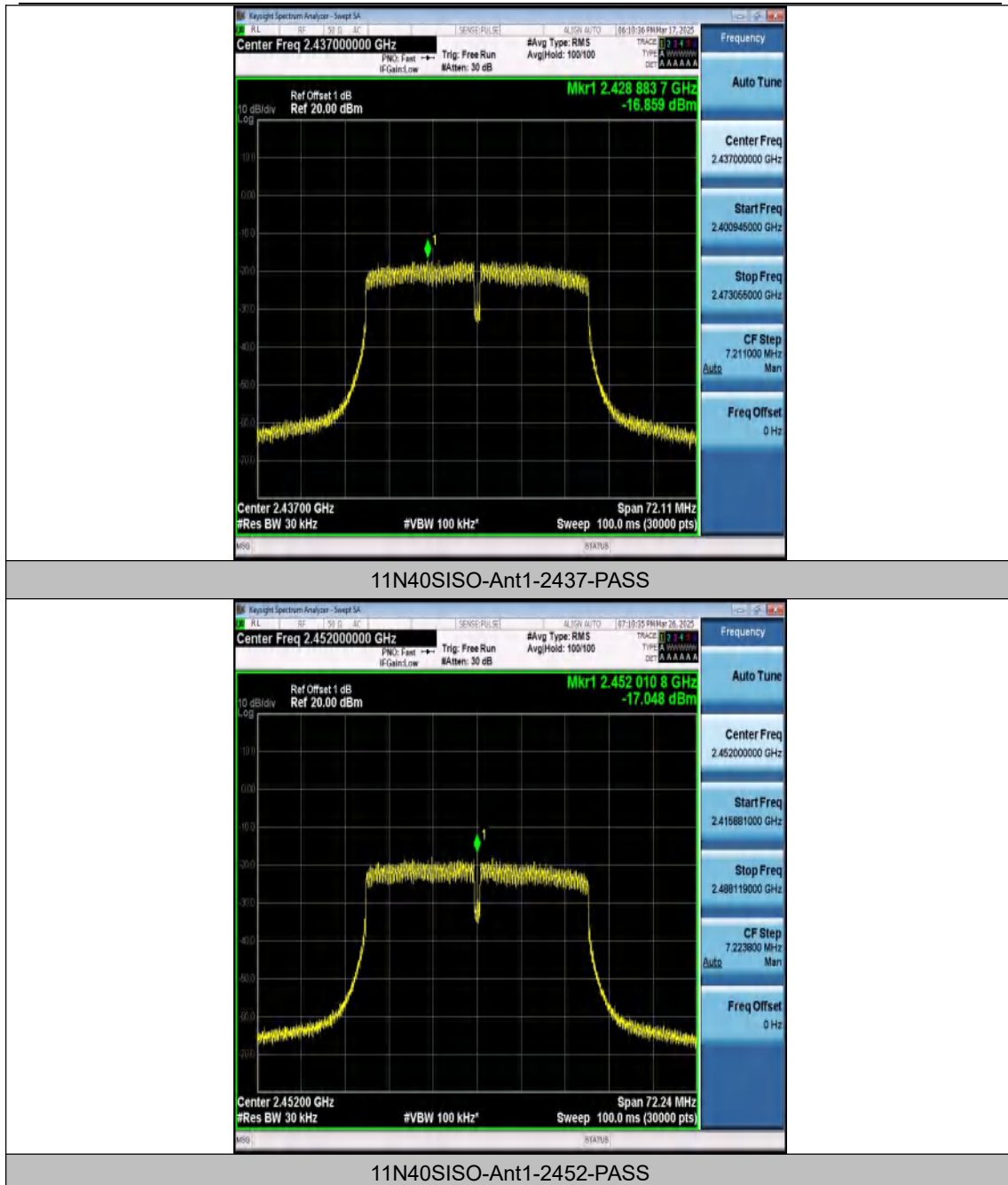
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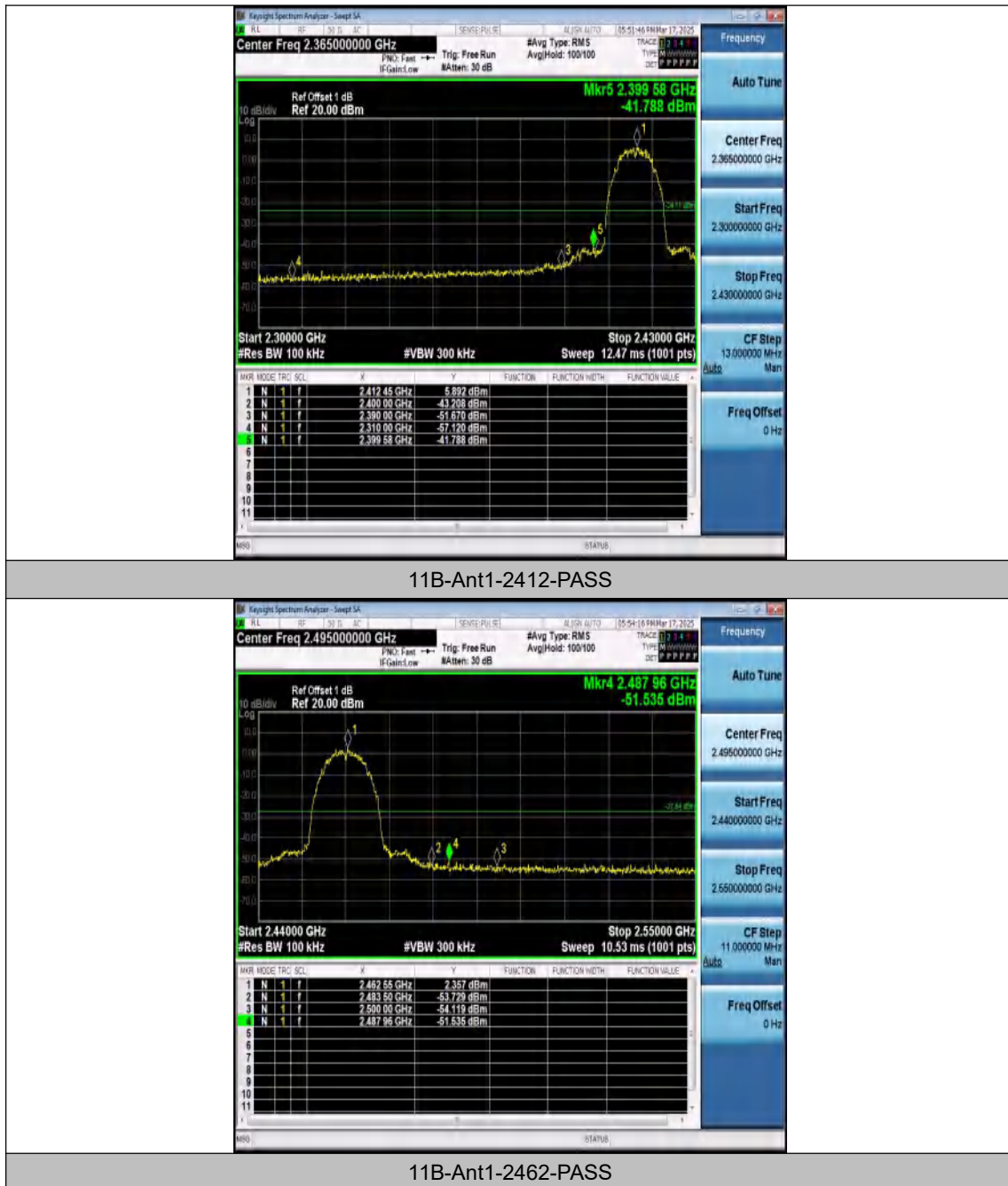
Appendix E: Conducted Band edge

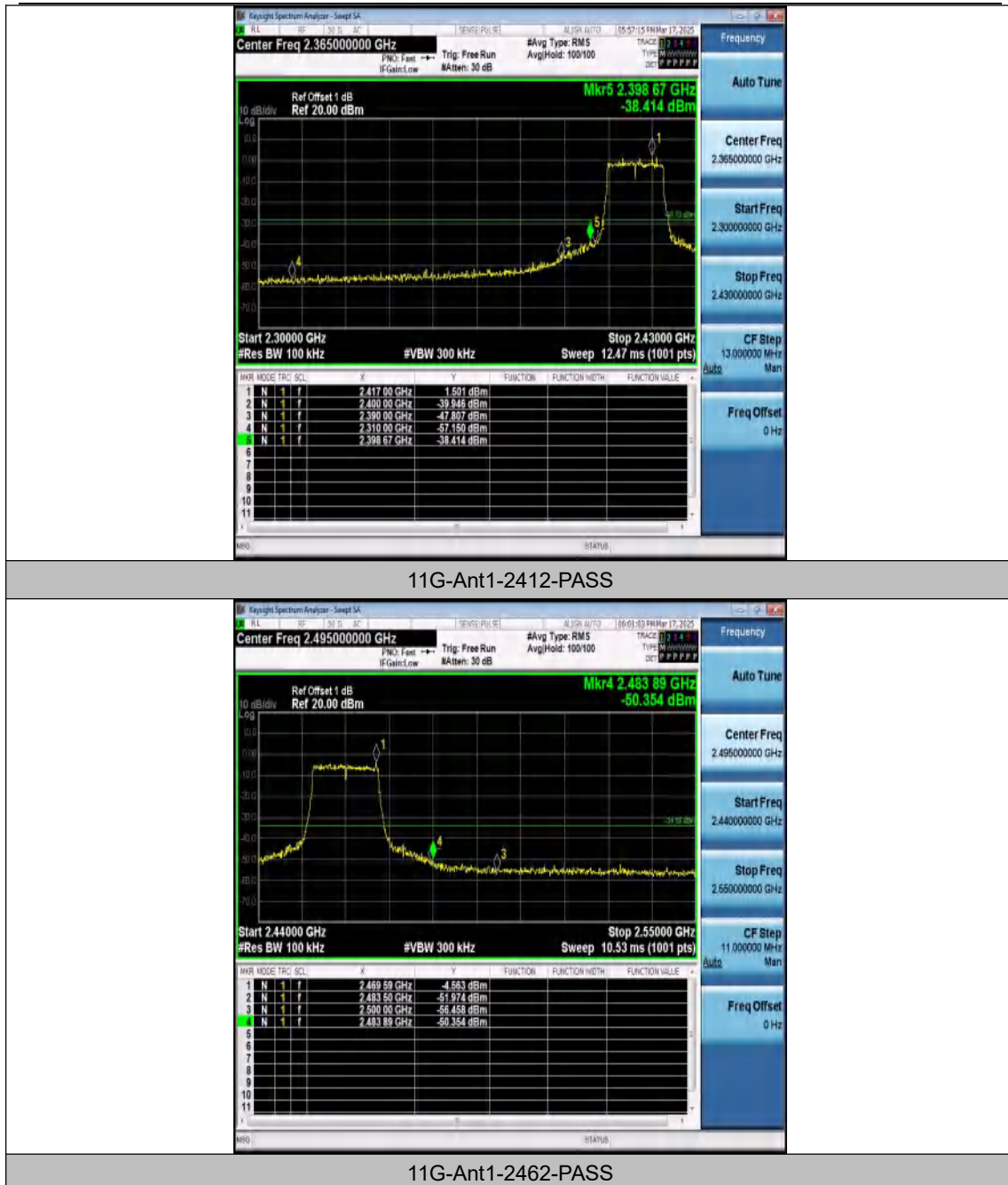
Test Result

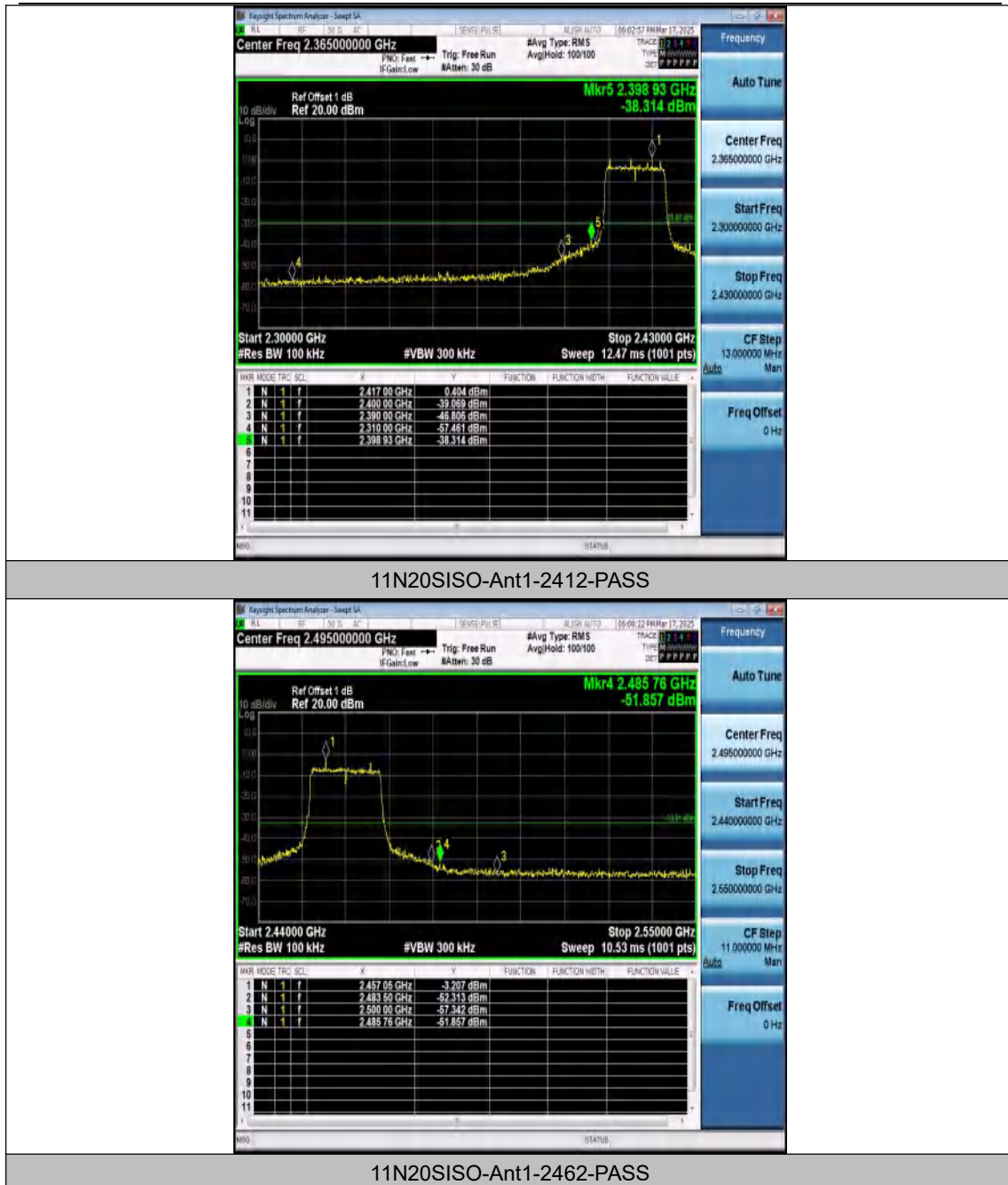
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.89	-41.79	≤-24.11	PASS
11B	Ant1	High	2462	2.36	-51.54	≤-27.64	PASS
11G	Ant1	Low	2412	1.50	-38.41	≤-28.5	PASS
11G	Ant1	High	2462	-4.56	-50.35	≤-34.56	PASS
11N20SISO	Ant1	Low	2412	0.40	-38.31	≤-29.6	PASS
11N20SISO	Ant1	High	2462	-3.21	-51.86	≤-33.21	PASS
11N40SISO	Ant1	Low	2422	-3.03	-40.99	≤-33.03	PASS
11N40SISO	Ant1	High	2452	-5.77	-48.46	≤-35.77	PASS

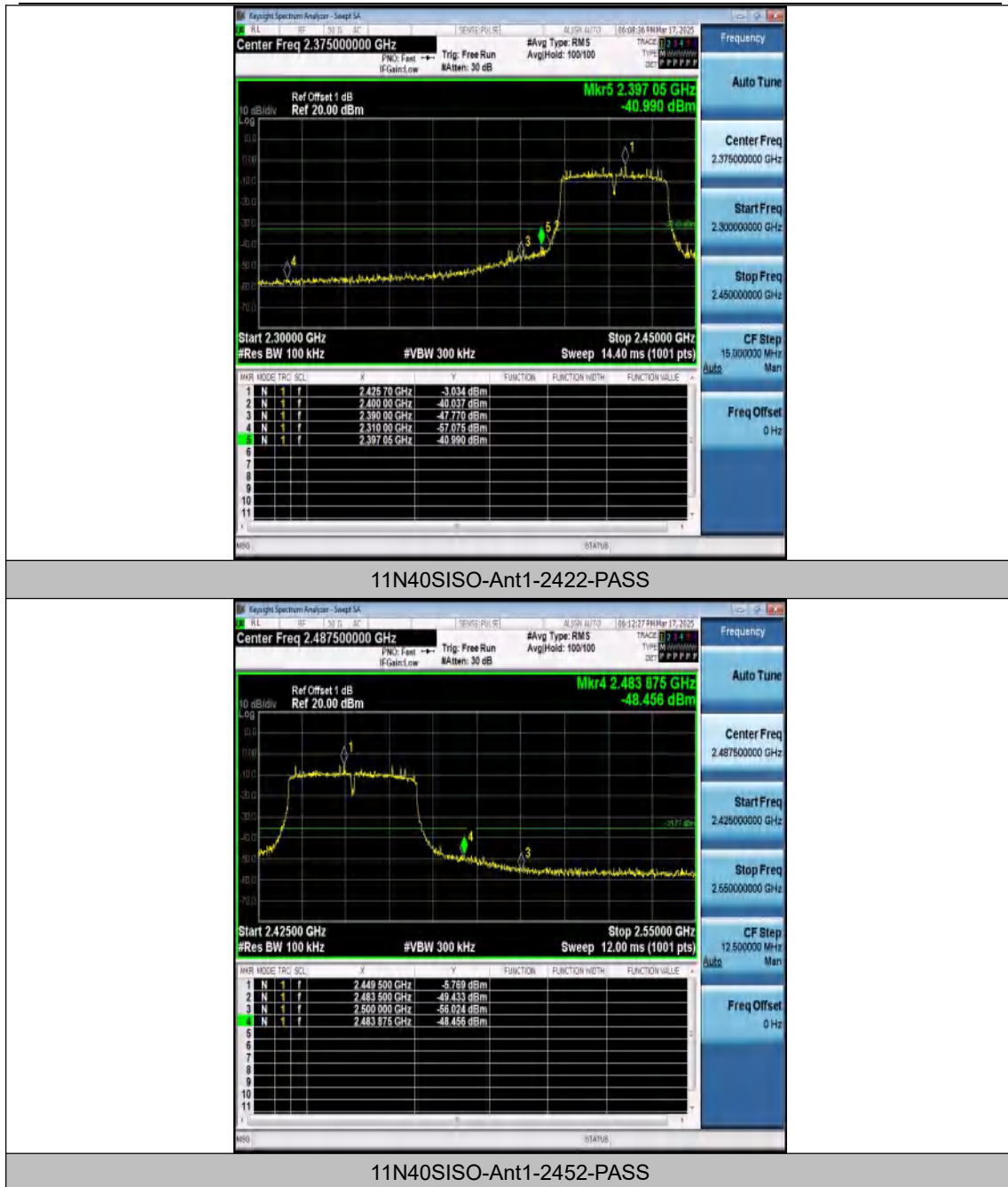


Test Graphs







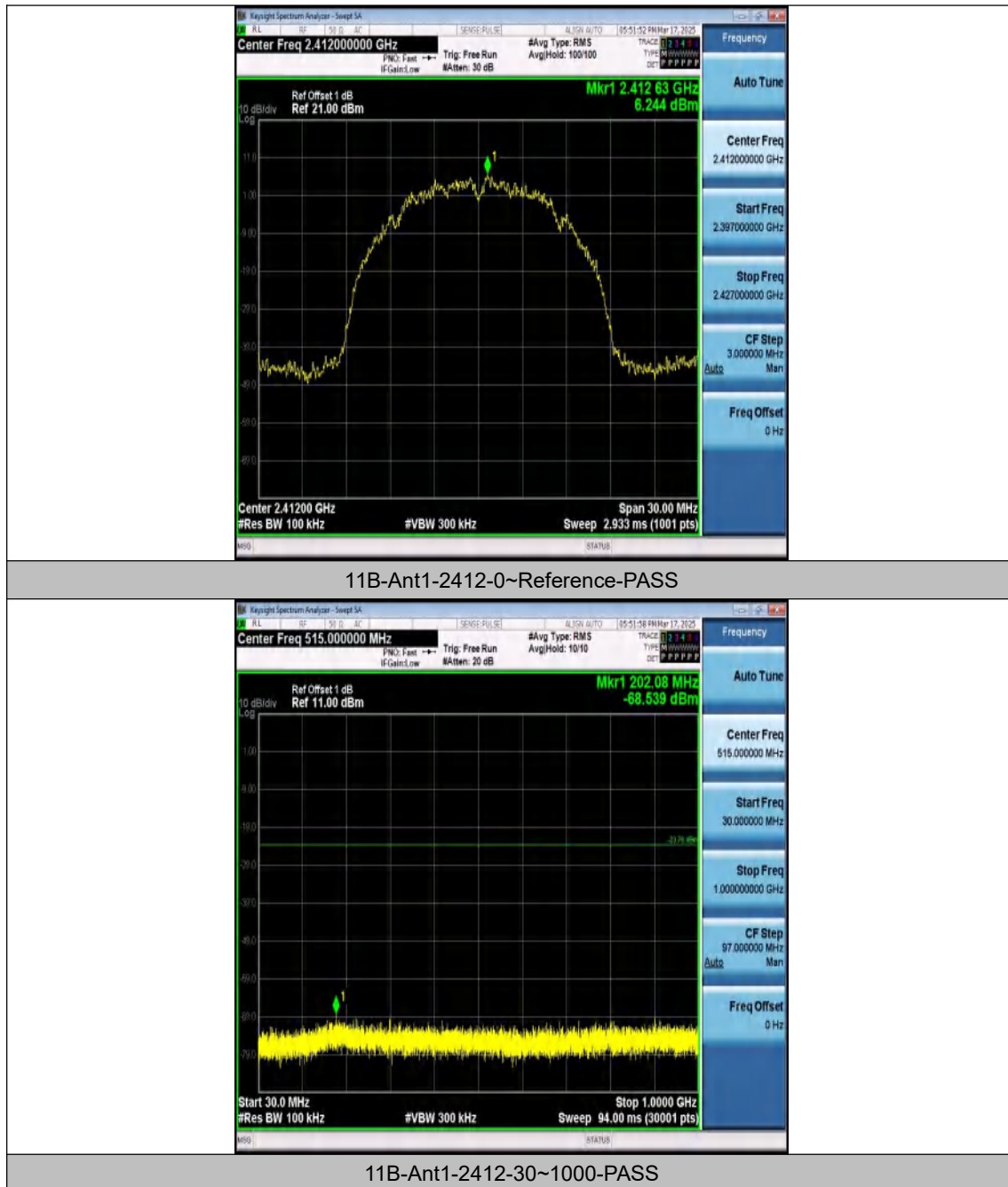


Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.24	6.24	---	PASS
11B	Ant1	2412	30~1000	6.24	-68.54	≤-23.76	PASS
11B	Ant1	2412	1000~26500	6.24	-50.29	≤-23.76	PASS
11B	Ant1	2437	0~Reference	5.08	5.08	---	PASS
11B	Ant1	2437	30~1000	5.08	-69.13	≤-24.92	PASS
11B	Ant1	2437	1000~26500	5.08	-53.88	≤-24.92	PASS
11B	Ant1	2462	0~Reference	2.65	2.65	---	PASS
11B	Ant1	2462	30~1000	2.65	-68.83	≤-27.35	PASS
11B	Ant1	2462	1000~26500	2.65	-53.58	≤-27.35	PASS
11G	Ant1	2412	0~Reference	2.19	2.19	---	PASS
11G	Ant1	2412	30~1000	2.19	-69.45	≤-27.81	PASS
11G	Ant1	2412	1000~26500	2.19	-52.56	≤-27.81	PASS
11G	Ant1	2437	0~Reference	-0.64	-0.64	---	PASS
11G	Ant1	2437	30~1000	-0.64	-68.93	≤-30.64	PASS
11G	Ant1	2437	1000~26500	-0.64	-54.14	≤-30.64	PASS
11G	Ant1	2462	0~Reference	-4.79	-4.79	---	PASS
11G	Ant1	2462	30~1000	-4.79	-68.46	≤-34.79	PASS
11G	Ant1	2462	1000~26500	-4.79	-52.55	≤-34.79	PASS
11N20SISO	Ant1	2412	0~Reference	0.08	0.08	---	PASS
11N20SISO	Ant1	2412	30~1000	0.08	-68.66	≤-29.92	PASS
11N20SISO	Ant1	2412	1000~26500	0.08	-53.83	≤-29.92	PASS
11N20SISO	Ant1	2437	0~Reference	-1.59	-1.59	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.59	-68.41	≤-31.59	PASS
11N20SISO	Ant1	2437	1000~26500	-1.59	-53.54	≤-31.59	PASS
11N20SISO	Ant1	2462	0~Reference	-3.73	-3.73	---	PASS
11N20SISO	Ant1	2462	30~1000	-3.73	-69.49	≤-33.73	PASS
11N20SISO	Ant1	2462	1000~26500	-3.73	-53.39	≤-33.73	PASS
11N40SISO	Ant1	2422	0~Reference	-3.09	-3.09	---	PASS
11N40SISO	Ant1	2422	30~1000	-3.09	-64.73	≤-33.09	PASS
11N40SISO	Ant1	2422	1000~26500	-3.09	-53.73	≤-33.09	PASS
11N40SISO	Ant1	2437	0~Reference	-4.45	-4.45	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.45	-63.31	≤-34.45	PASS
11N40SISO	Ant1	2437	1000~26500	-4.45	-54.3	≤-34.45	PASS
11N40SISO	Ant1	2452	0~Reference	-6.03	-6.03	---	PASS
11N40SISO	Ant1	2452	30~1000	-6.03	-68.26	≤-36.03	PASS
11N40SISO	Ant1	2452	1000~26500	-6.03	-53.18	≤-36.03	PASS

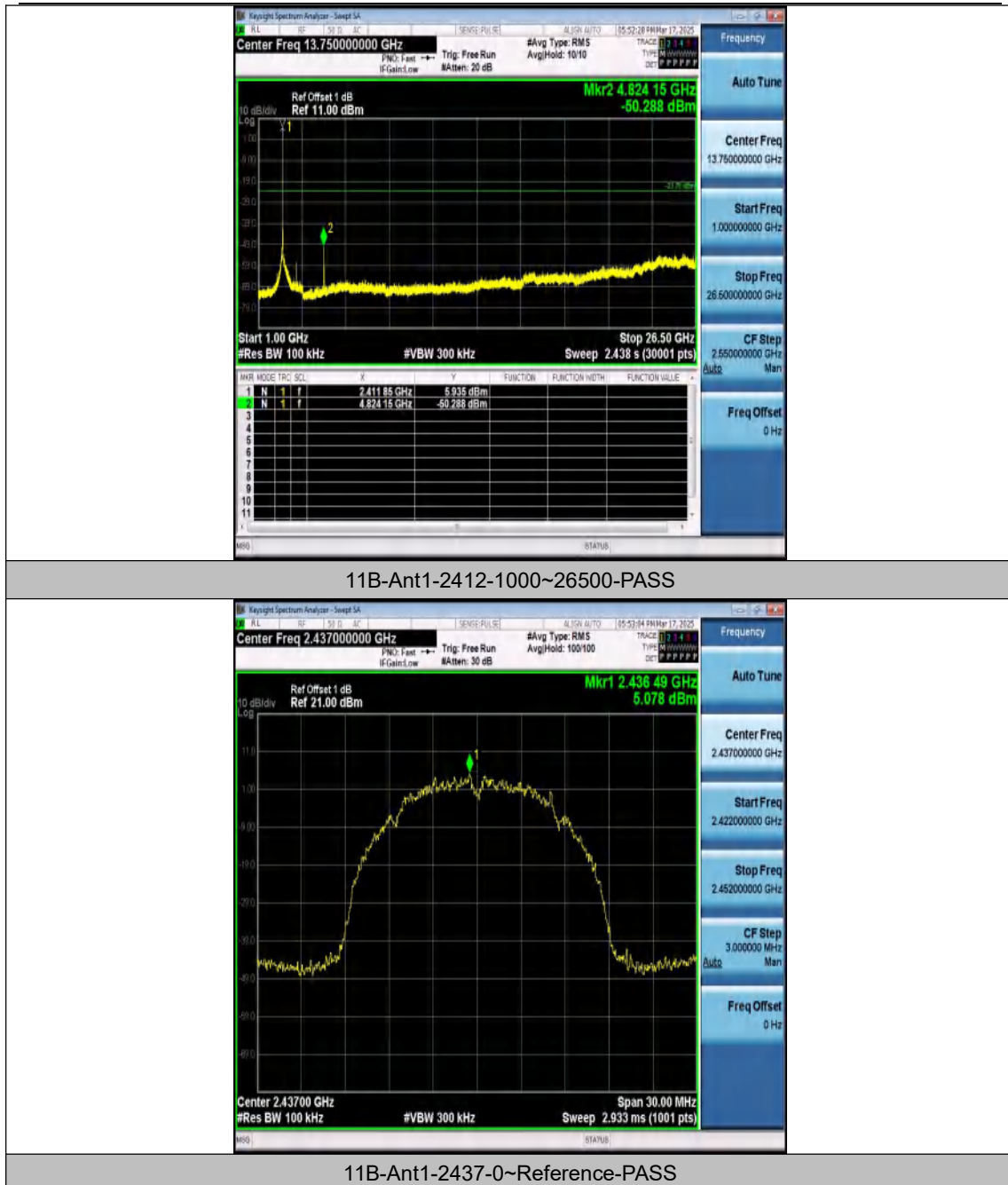
Test Graphs

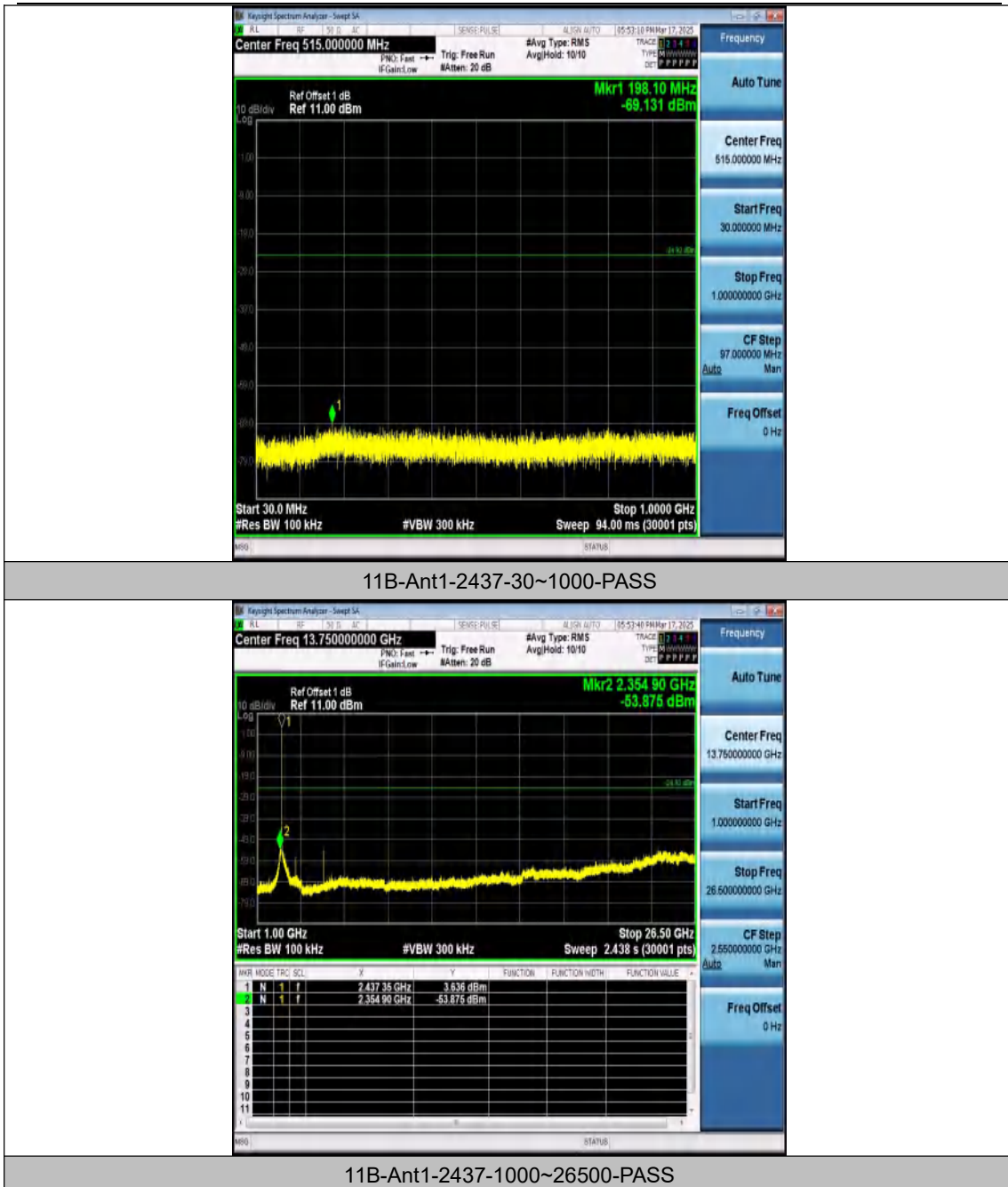


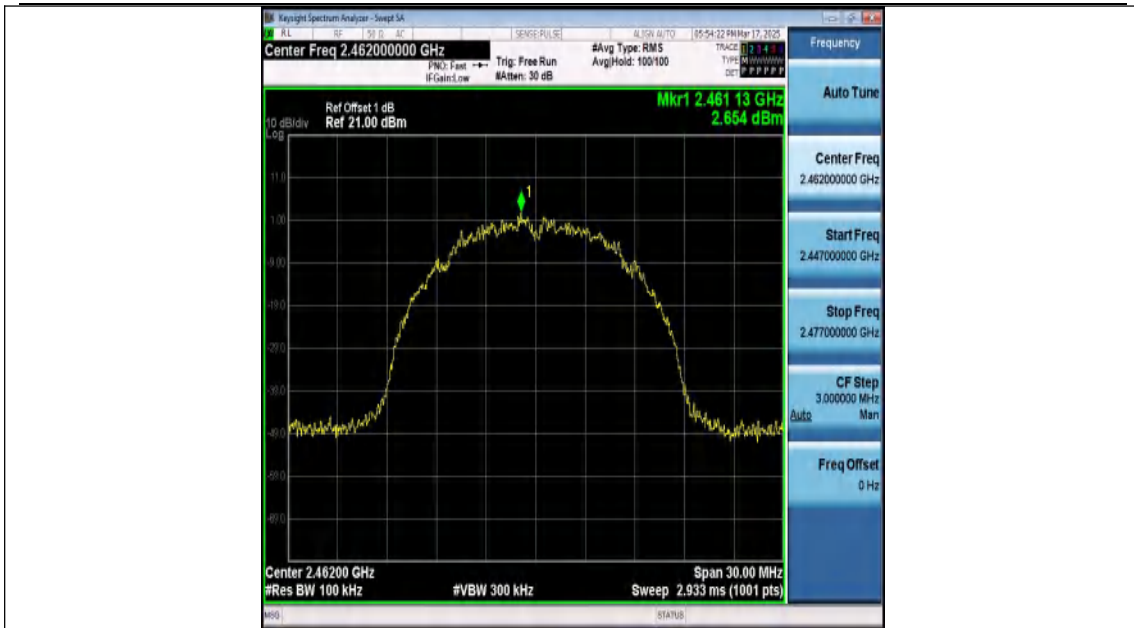
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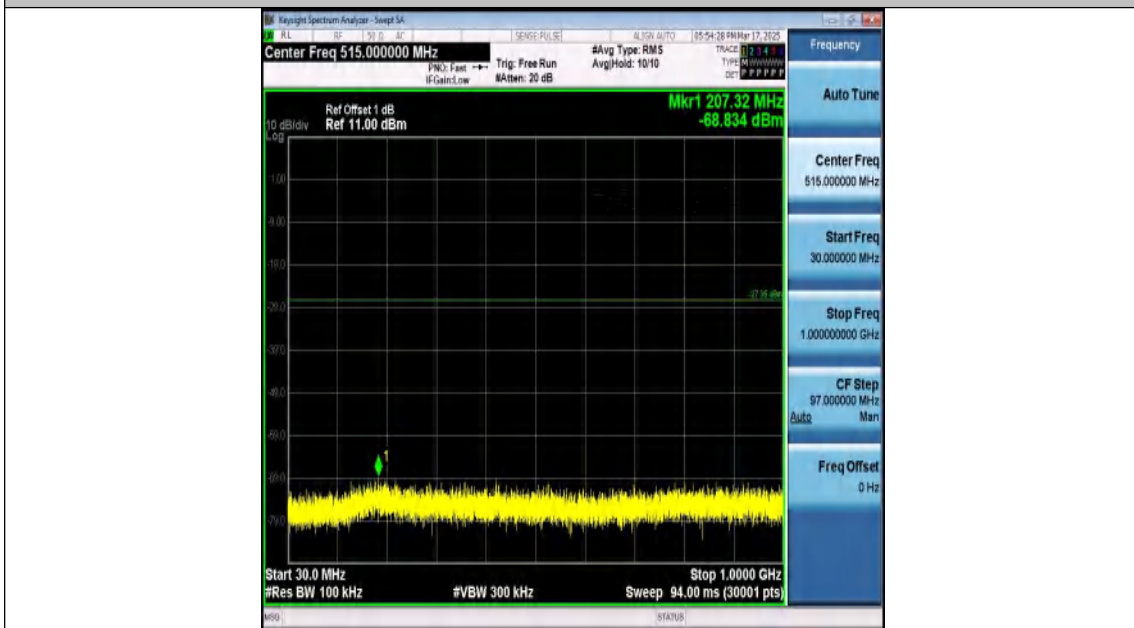
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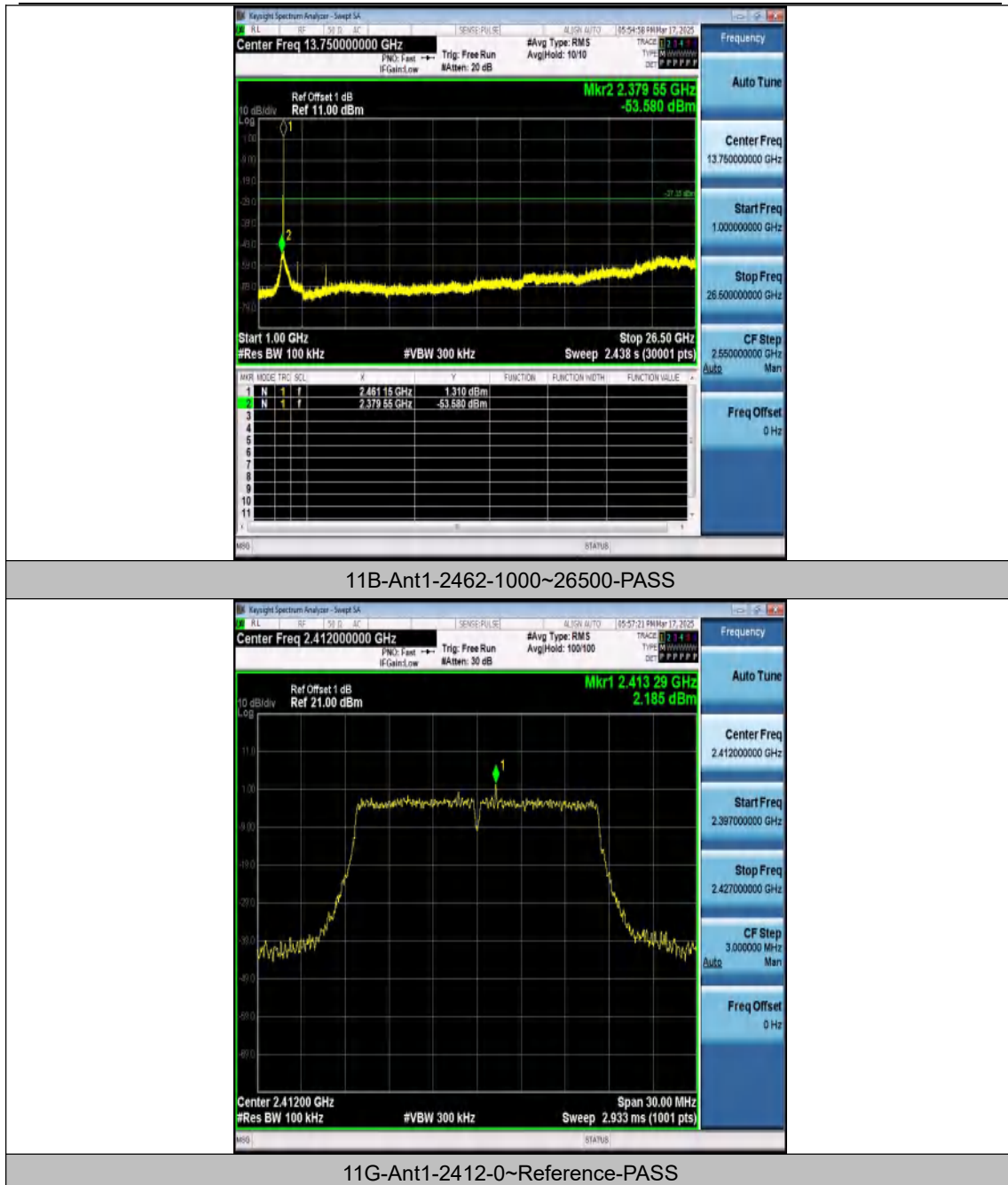


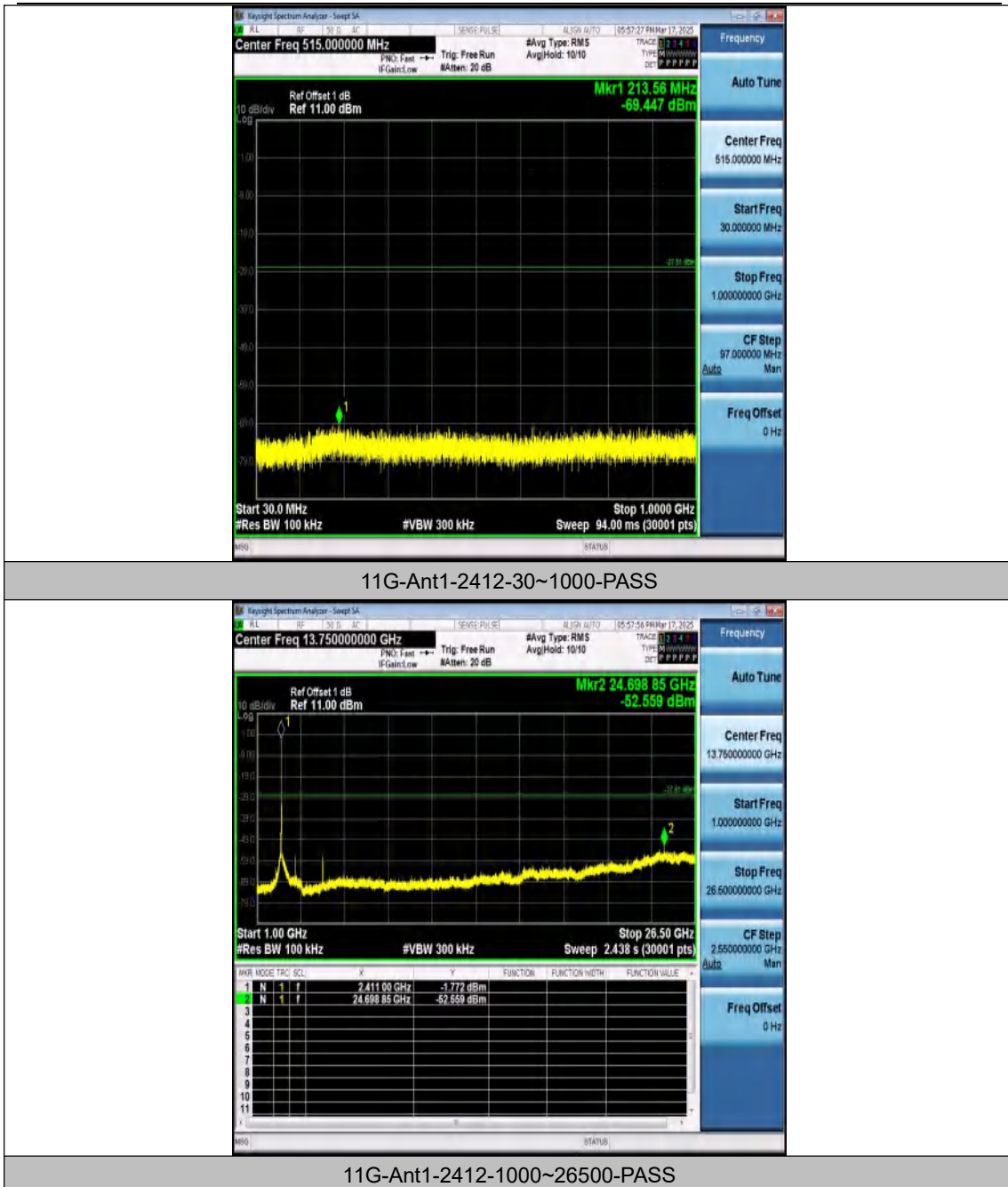


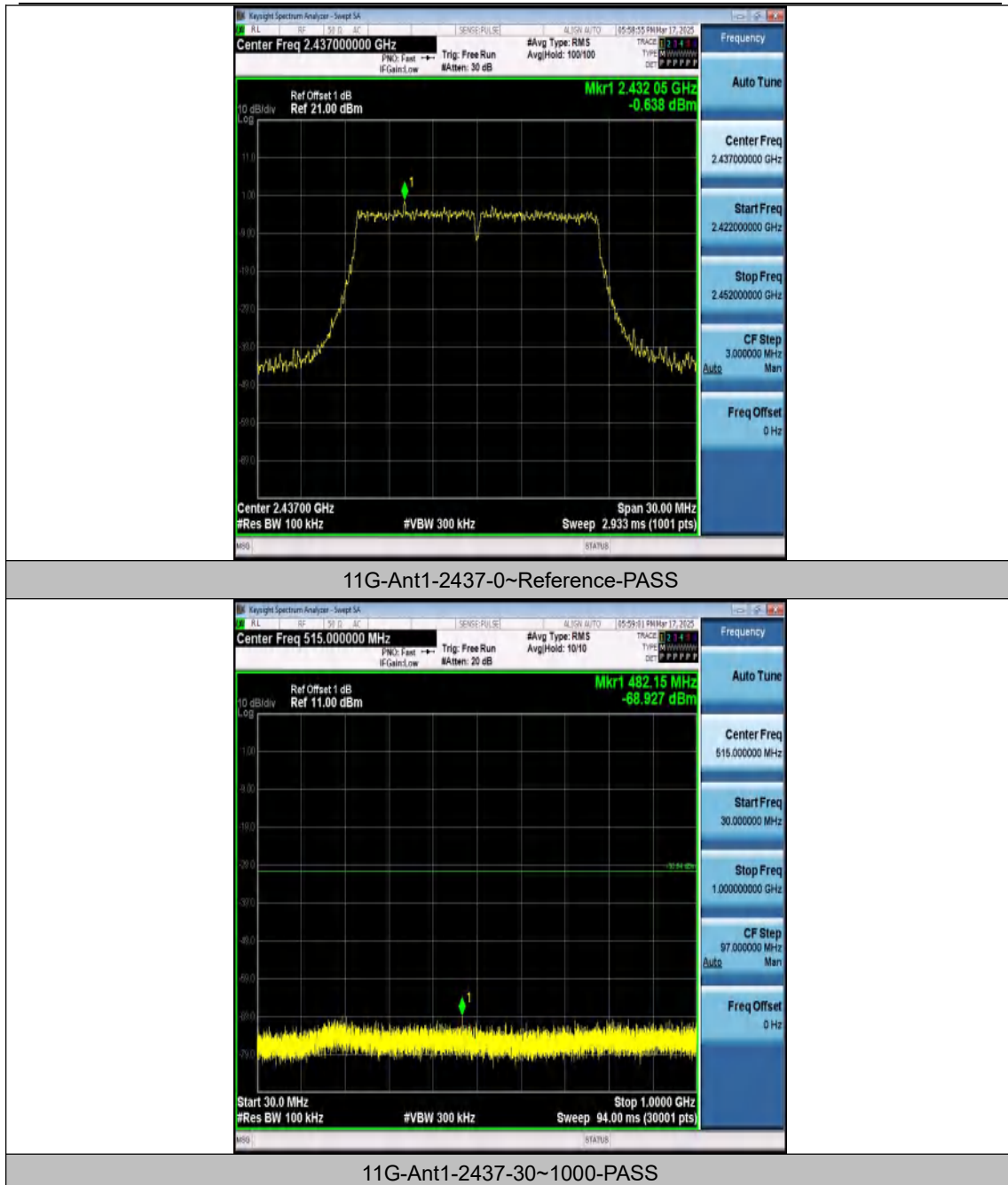
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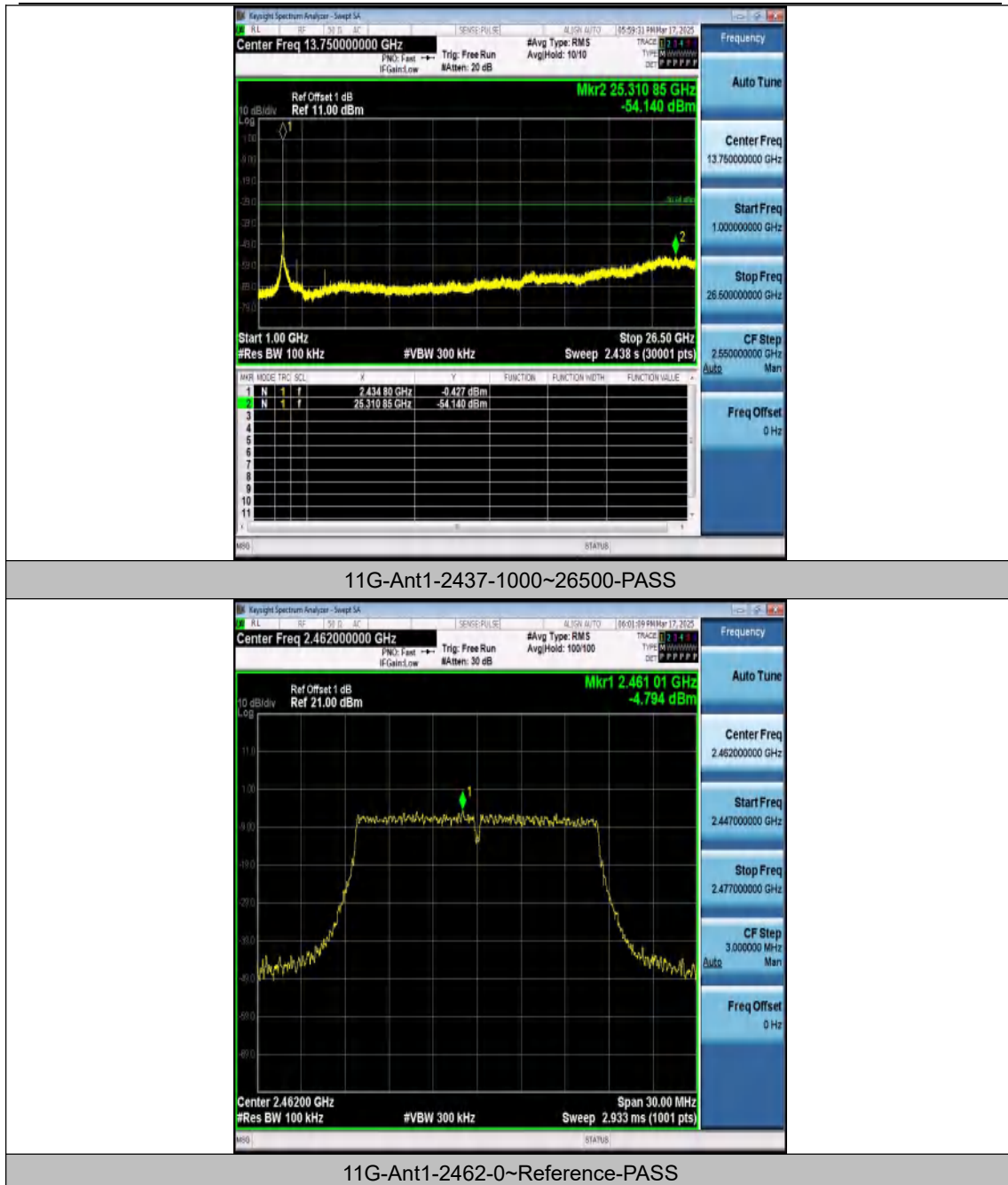


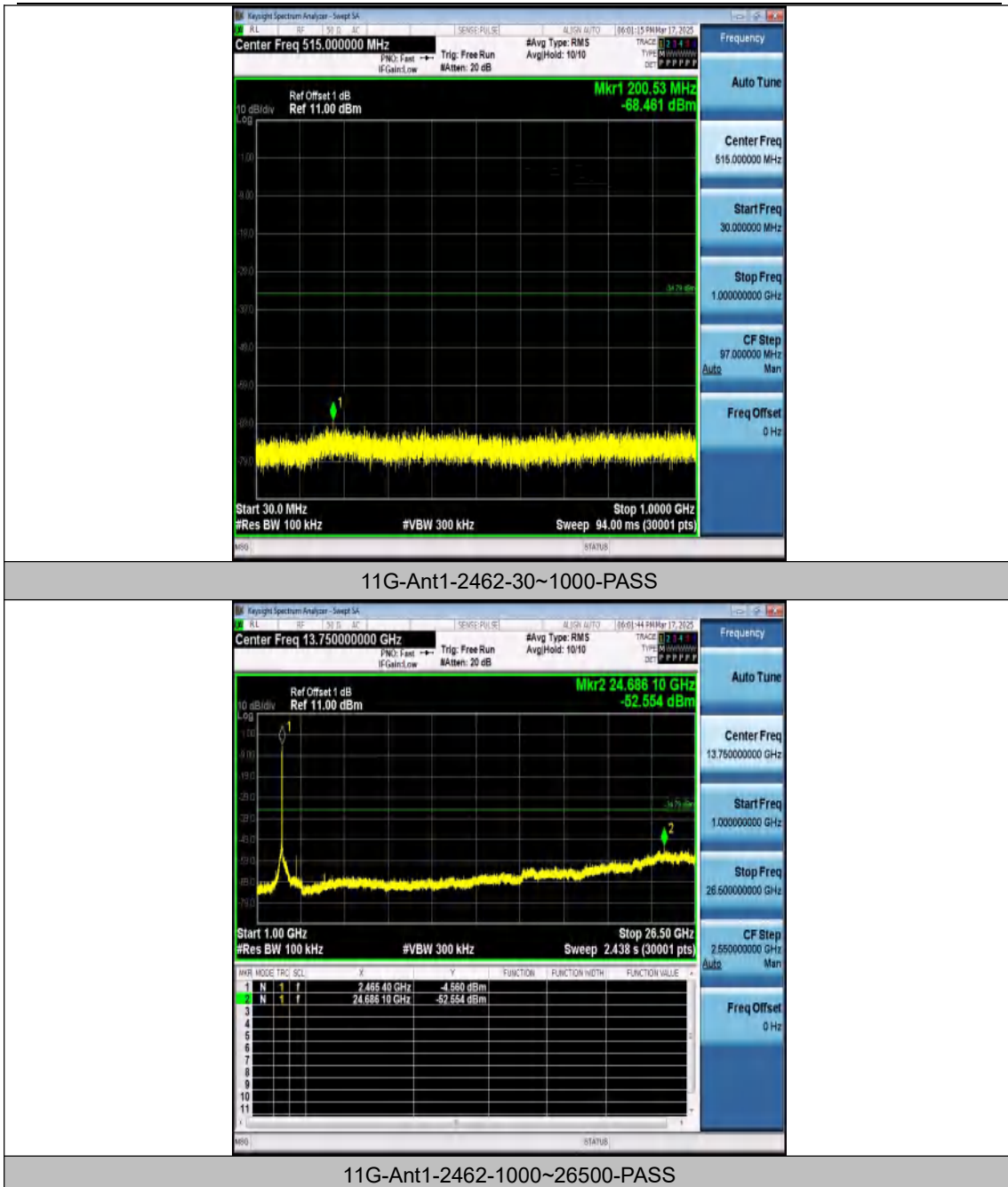
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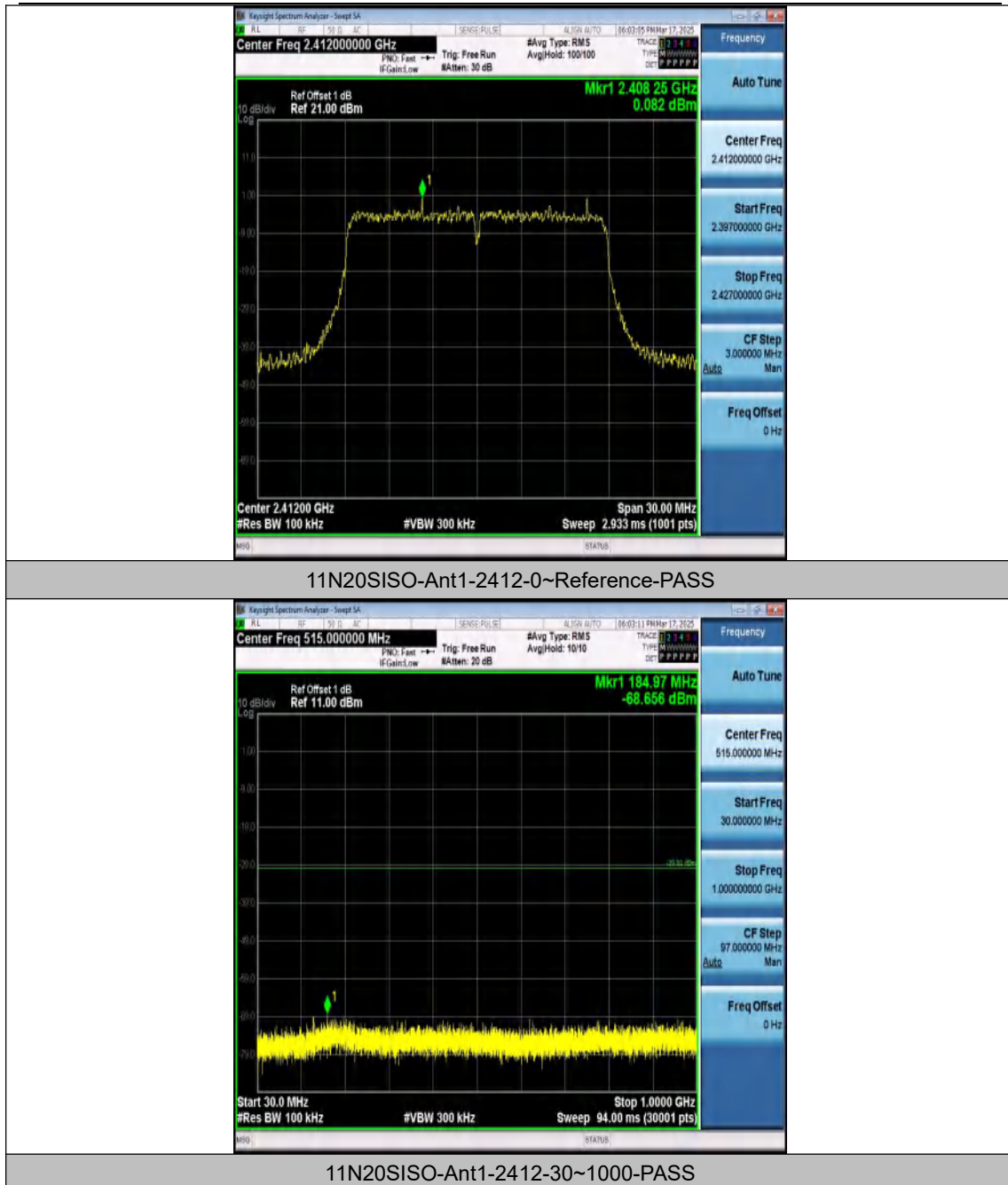








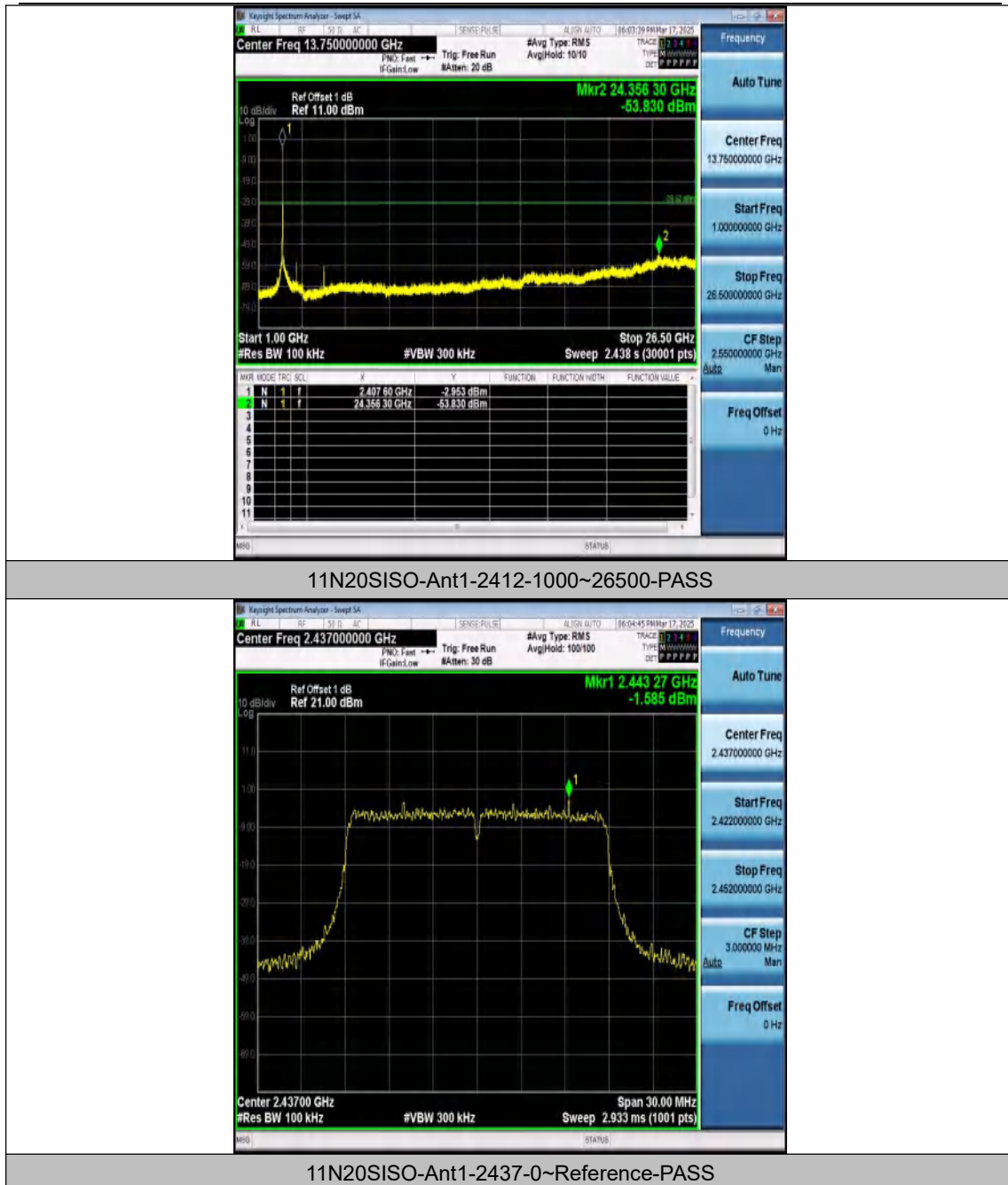


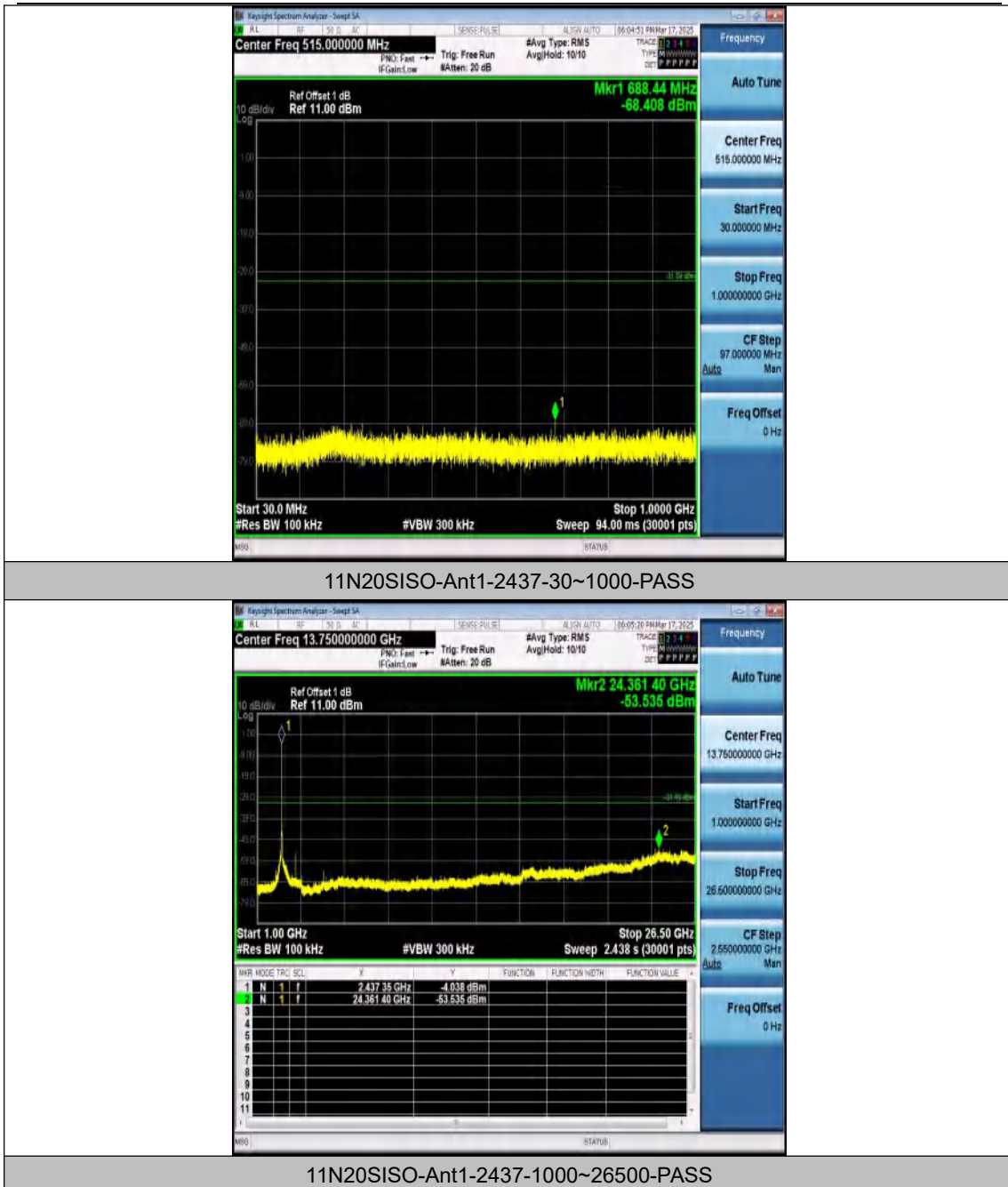


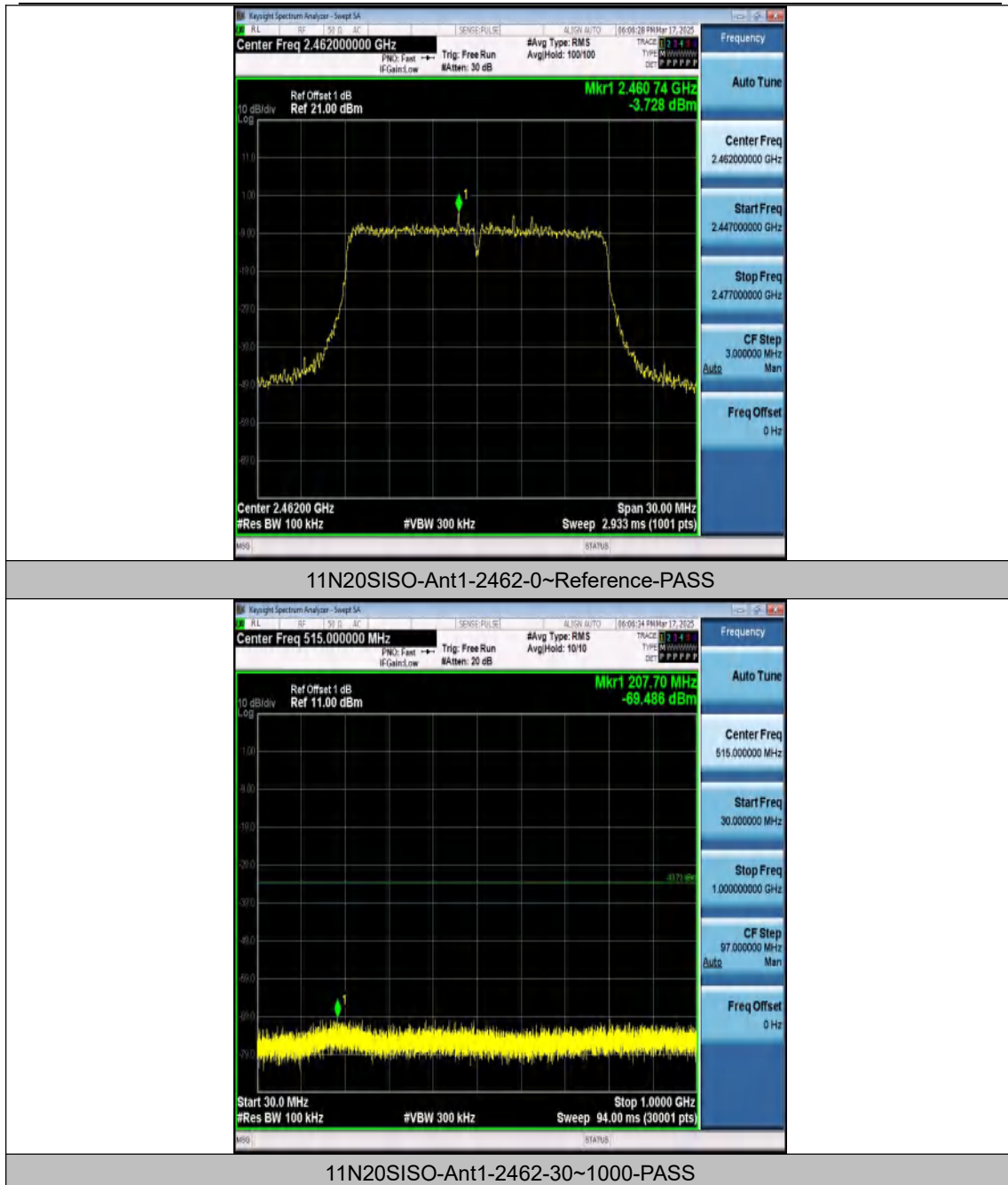
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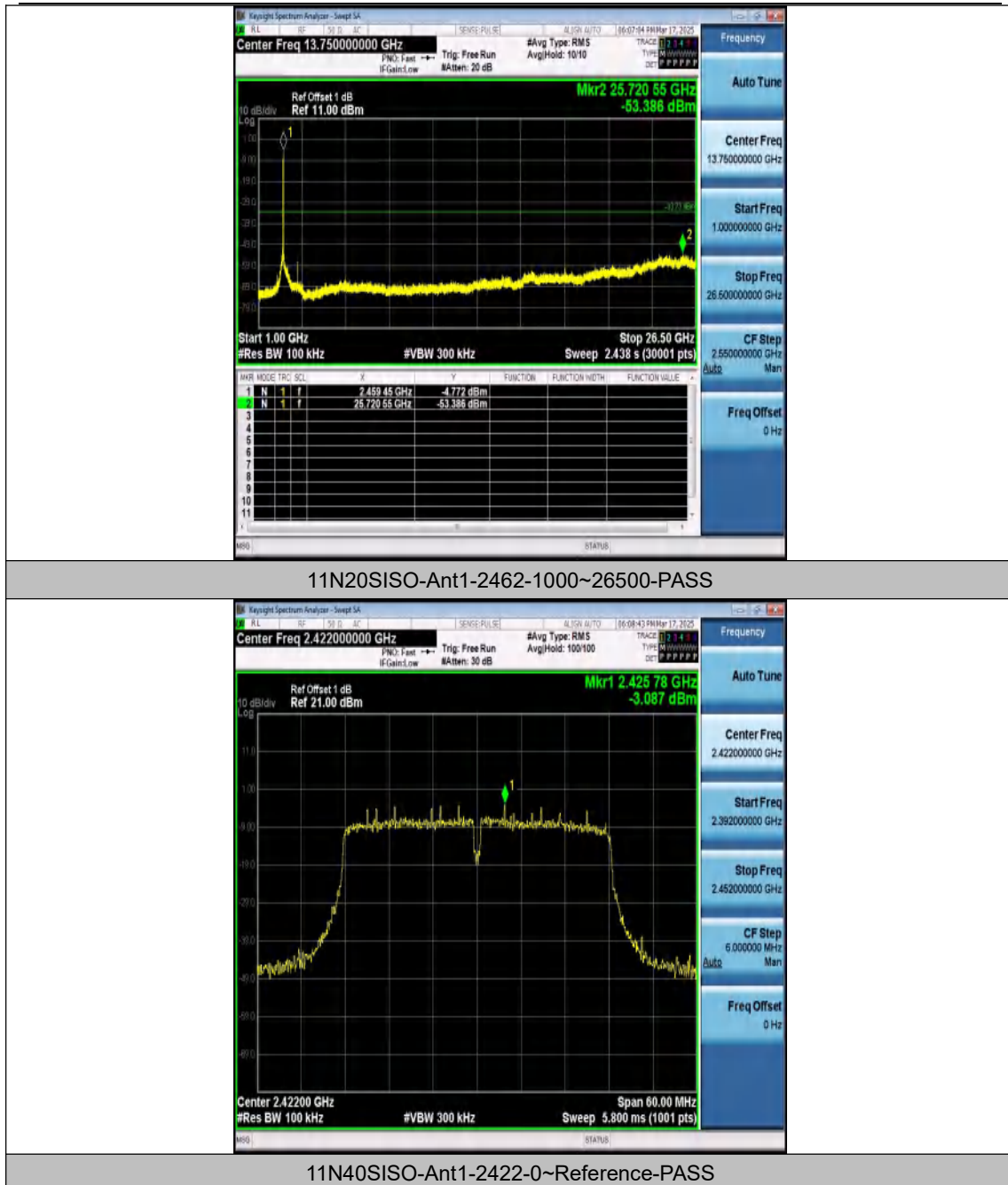
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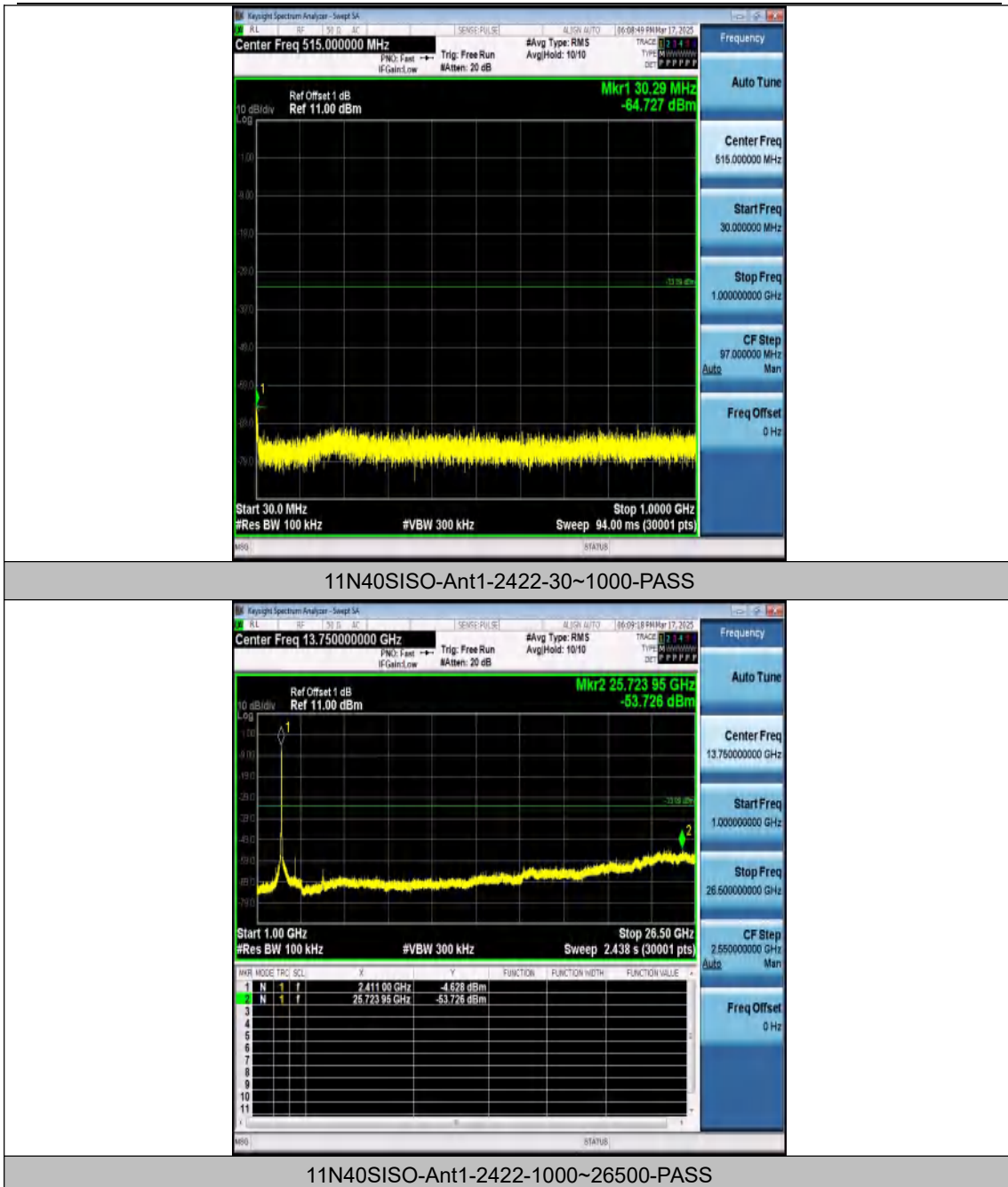
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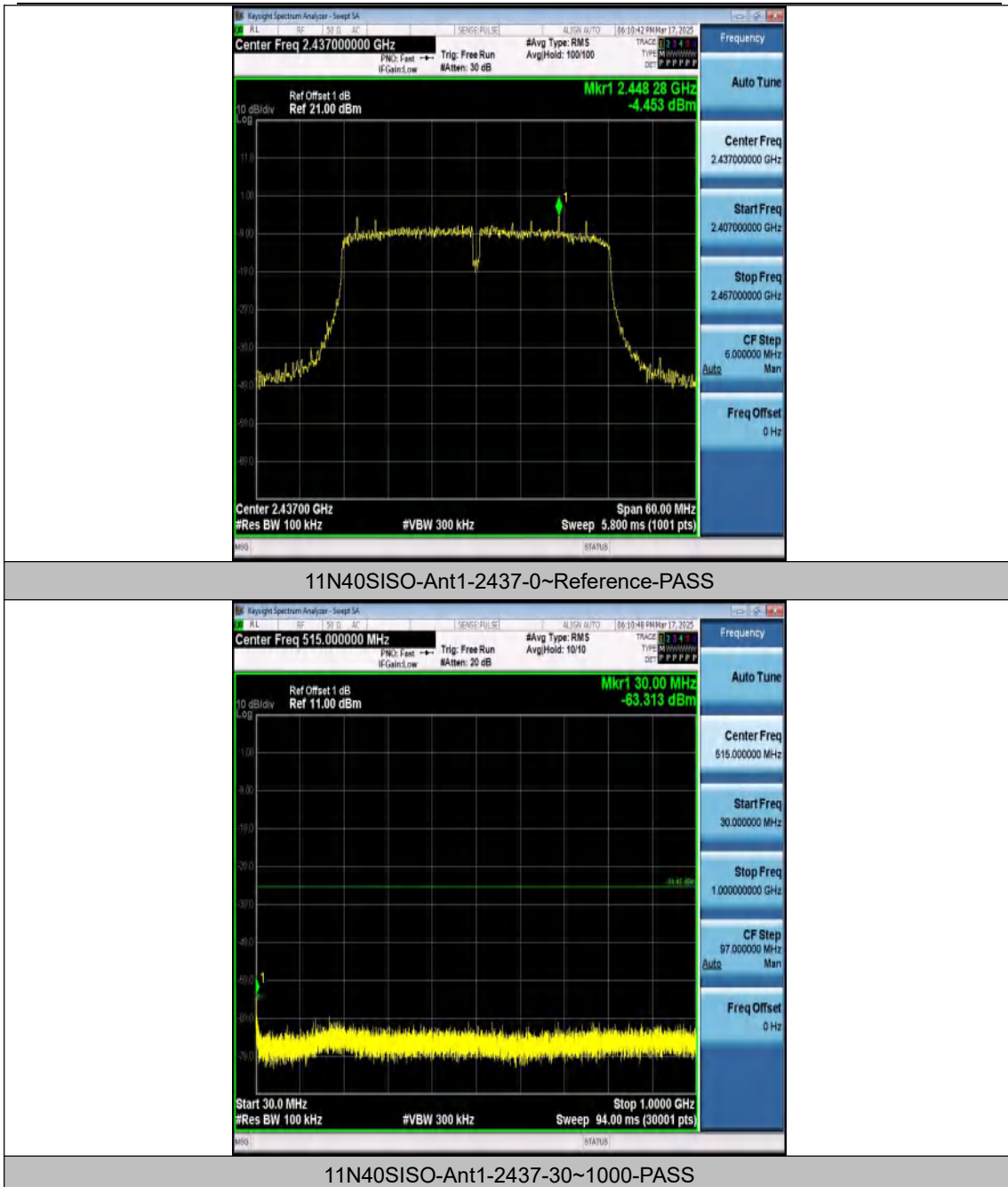


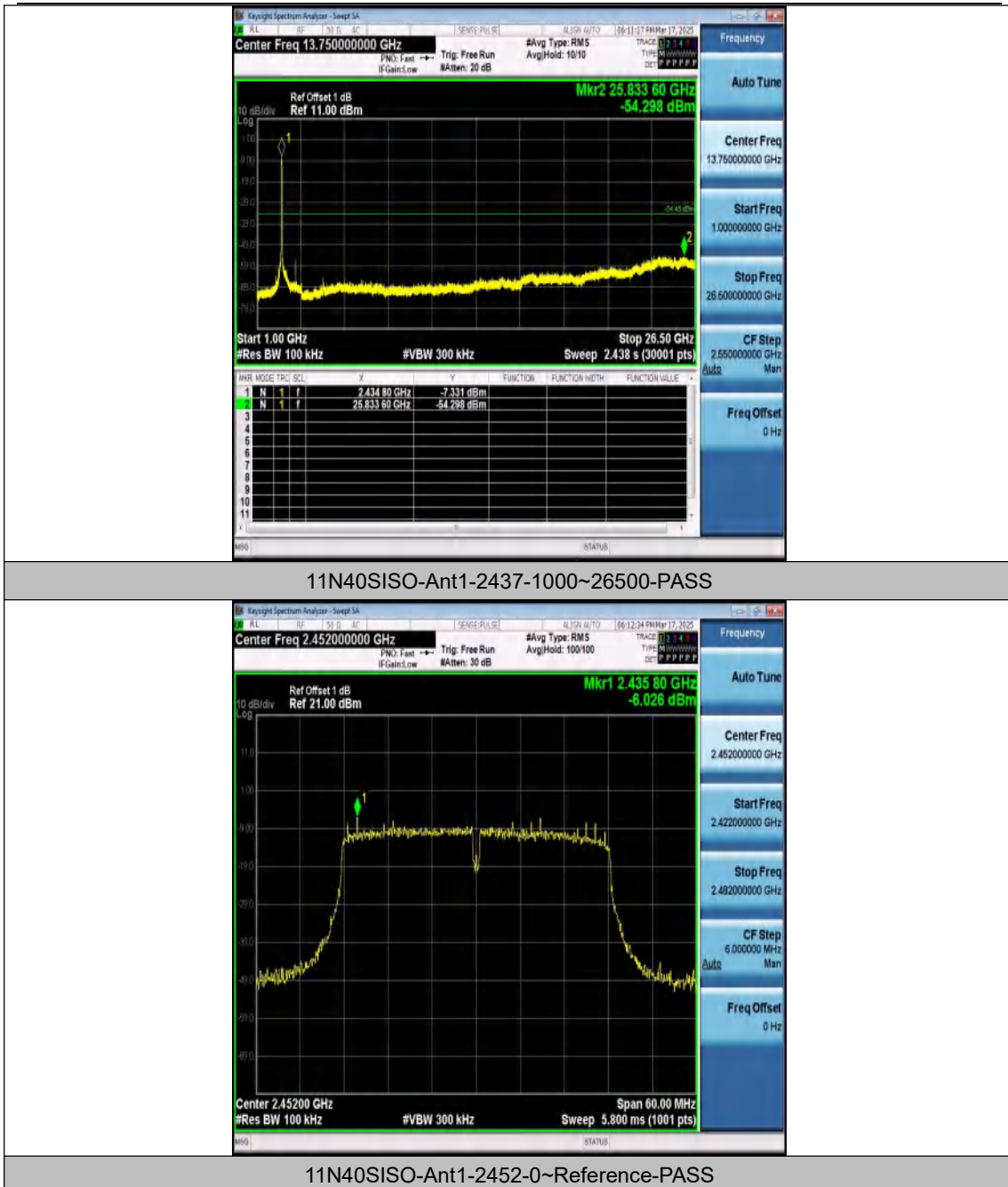


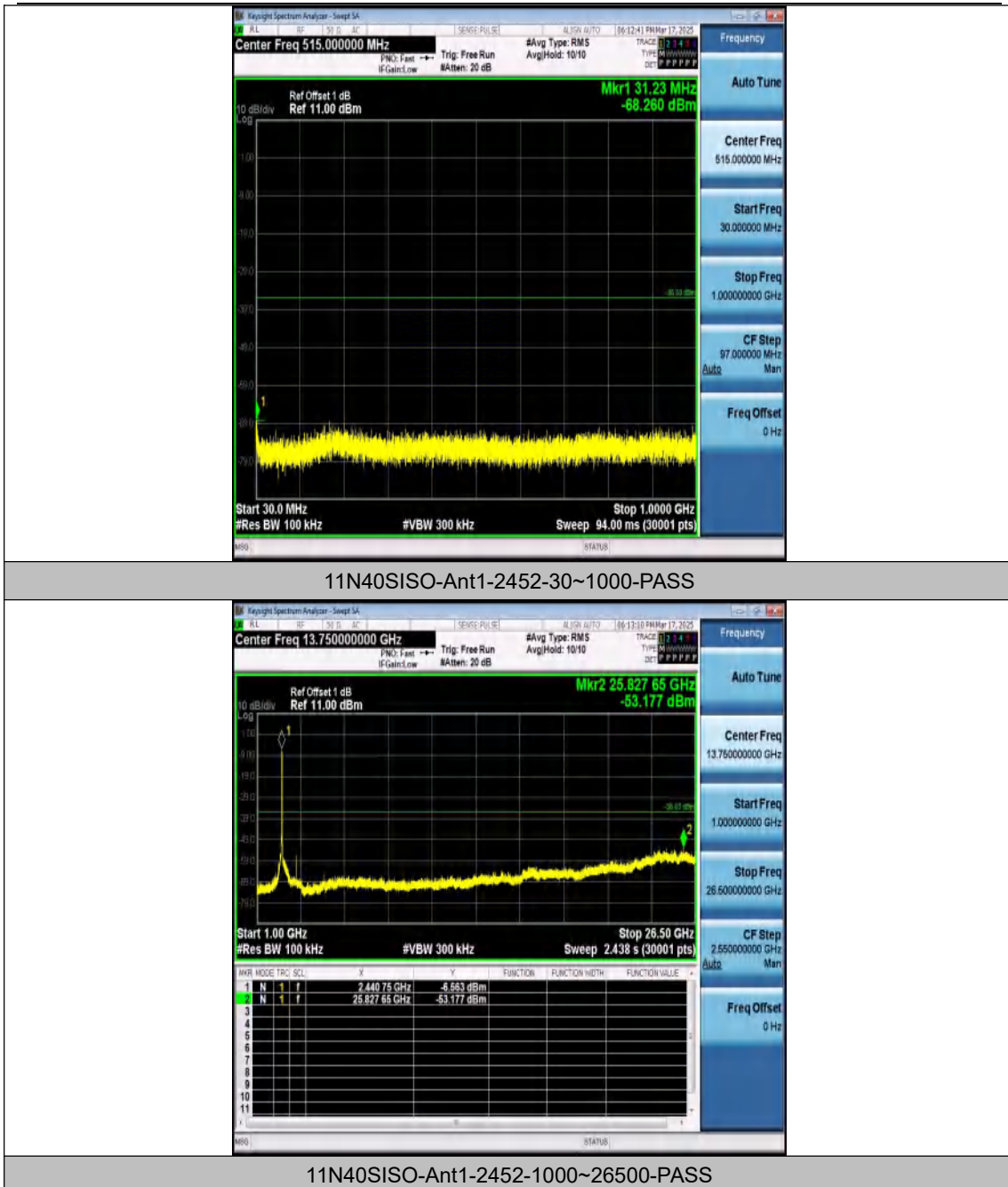
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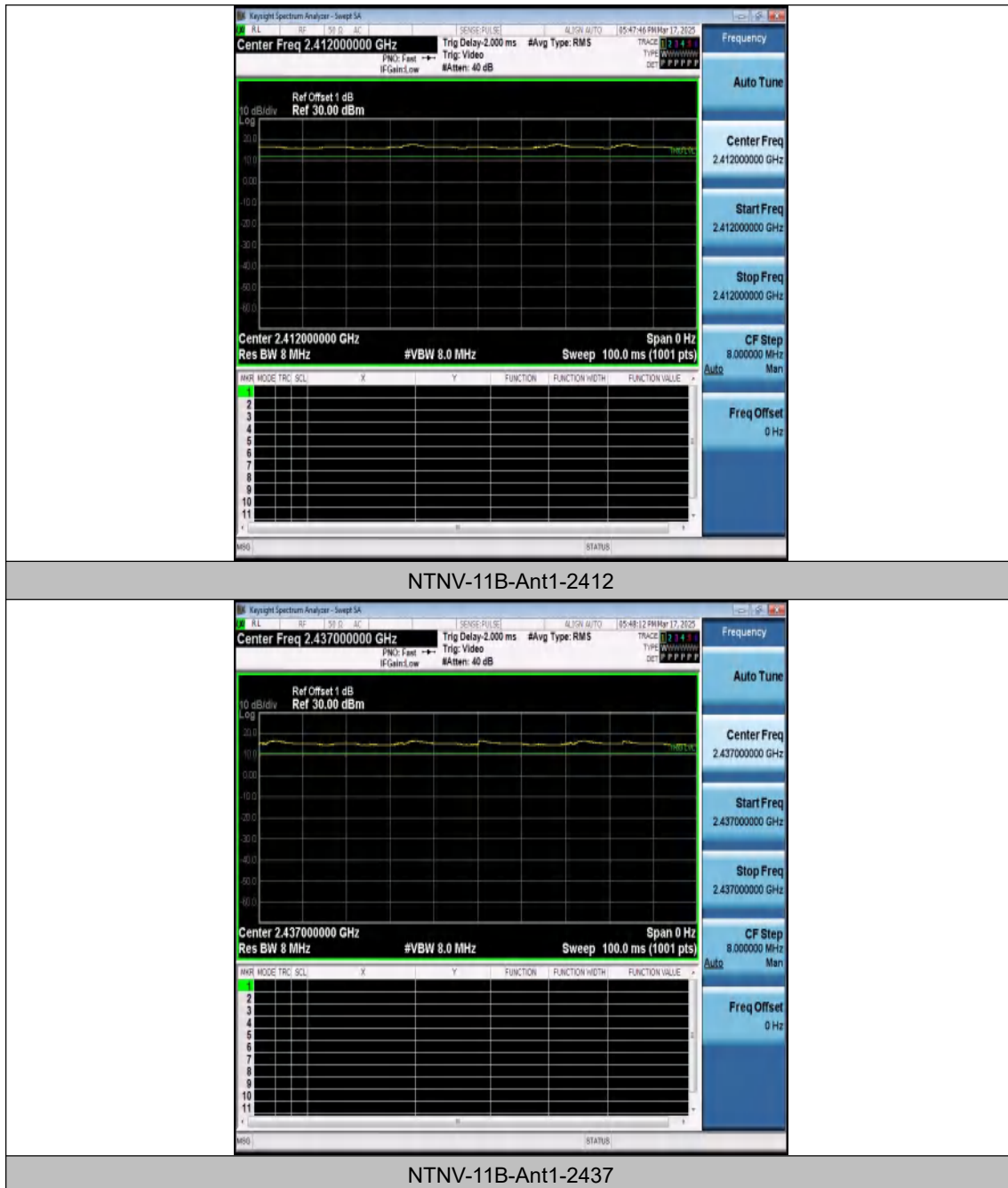
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	100.00	100.00	100.00	0.00
11B	Ant1	2437	100.00	100.00	100.00	0.00
11B	Ant1	2462	100.00	100.00	100.00	0.00
11G	Ant1	2412	100.00	100.00	100.00	0.00
11G	Ant1	2437	100.00	100.00	100.00	0.00
11G	Ant1	2462	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2412	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N20SISO	Ant1	2462	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2422	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2437	100.00	100.00	100.00	0.00
11N40SISO	Ant1	2452	100.00	100.00	100.00	0.00



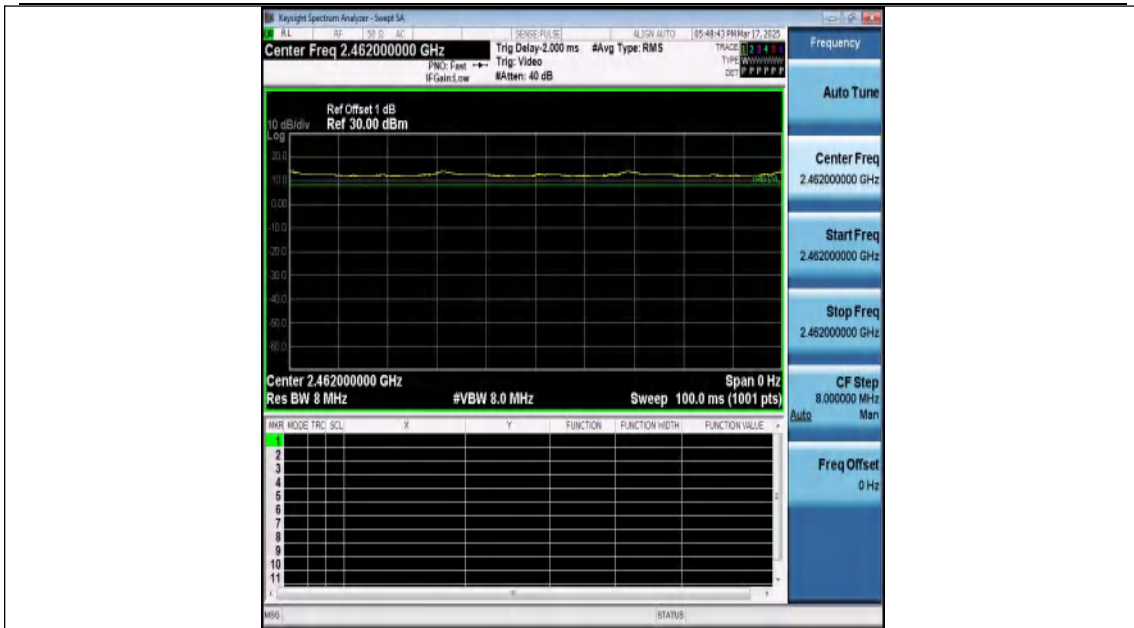
Test Graphs



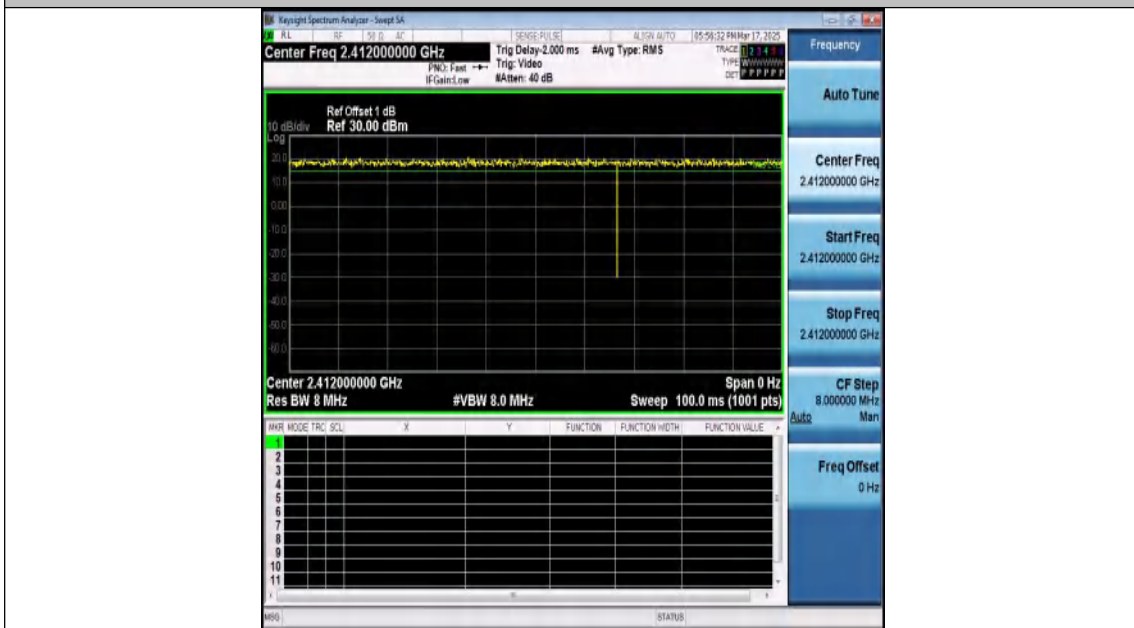
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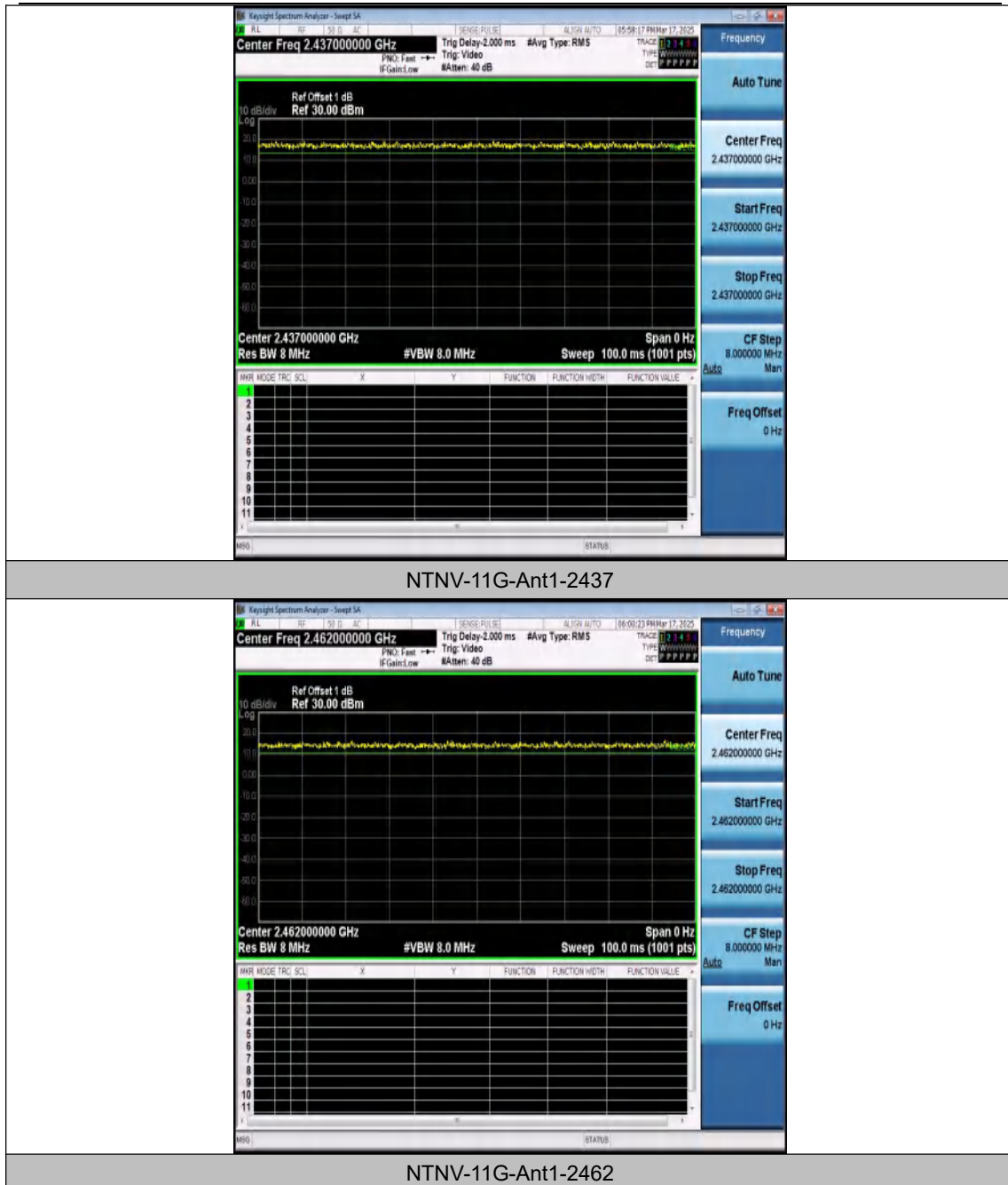
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NTNV-11B-Ant1-2462



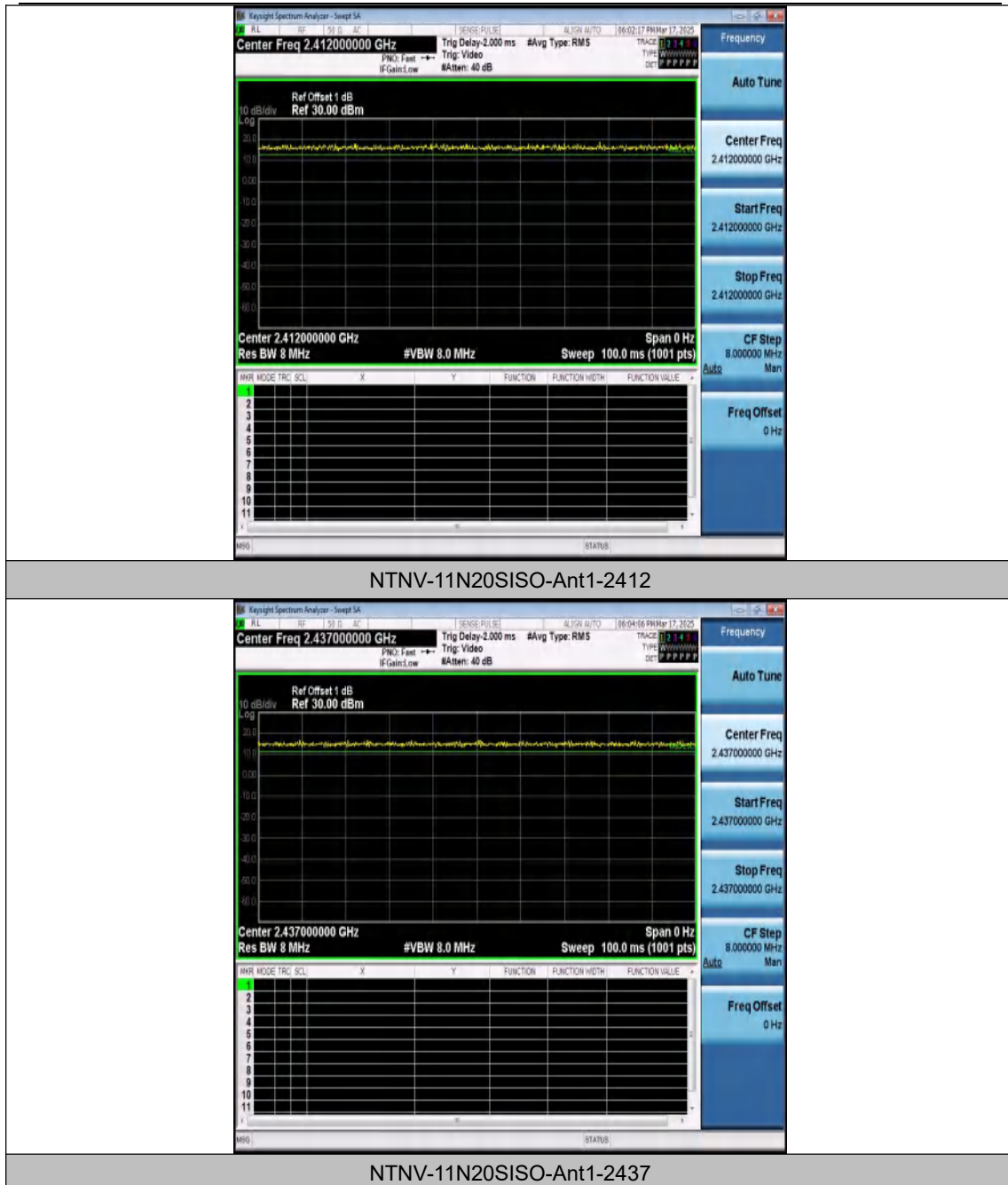
NTNV-11G-Ant1-2412



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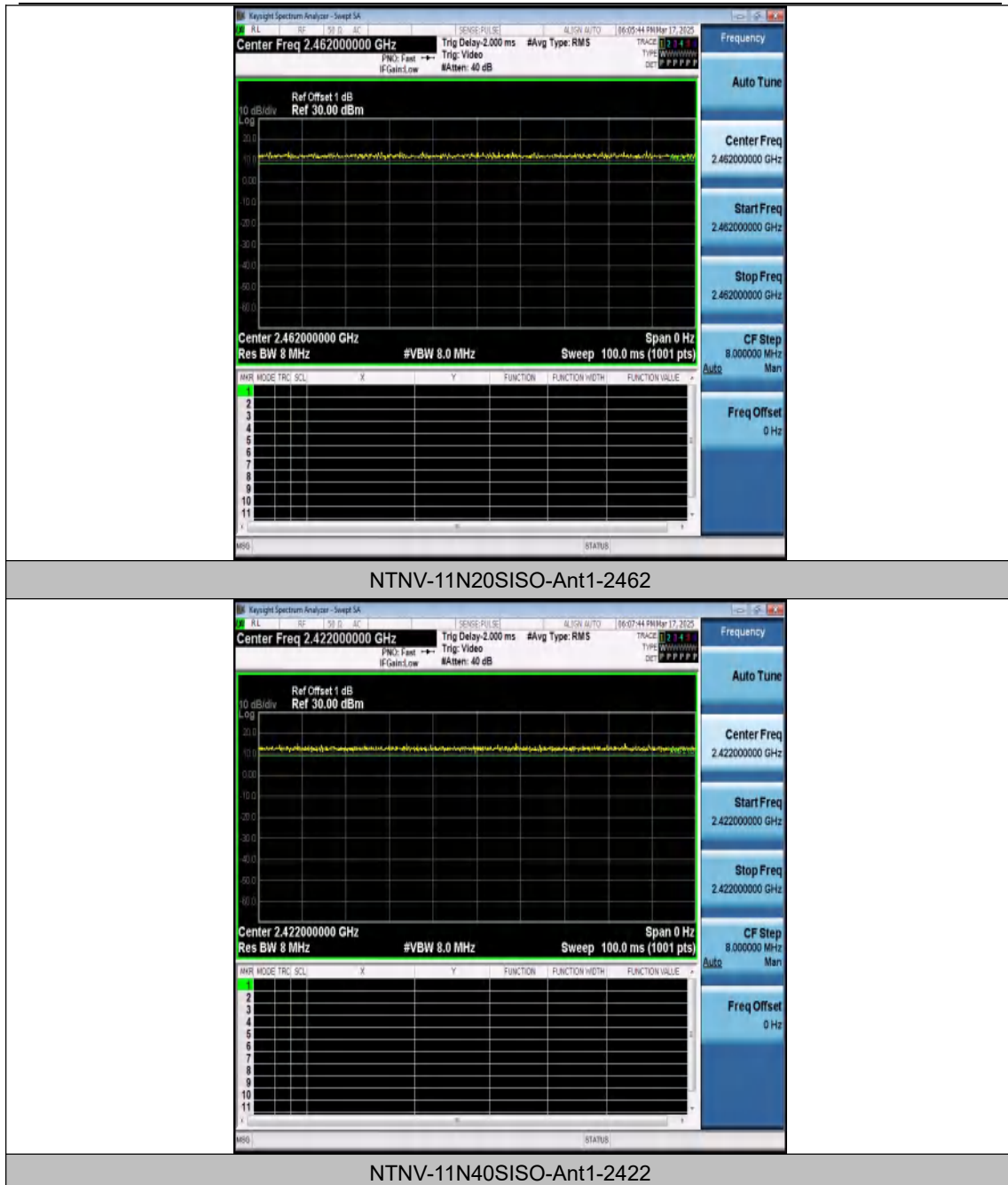
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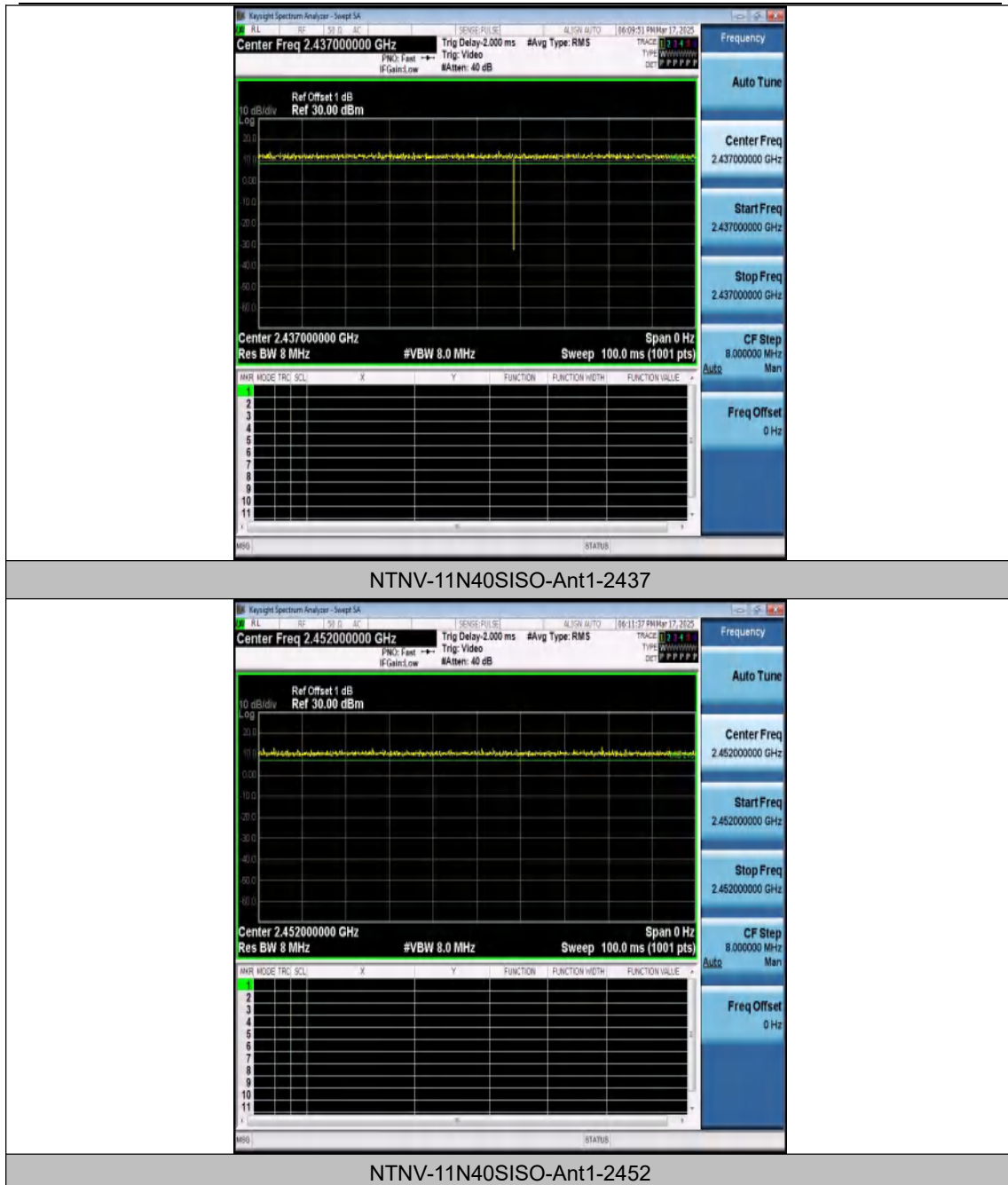


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