

Appendix Test Data

Report No.:	1812C50166612502	Test Sample No.:	1-2-2
Start Test Date:	2025-04-24	Finish Test Date:	2025-04-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21°C	Relative Humidity:	40%
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	9.240	2407.440	2416.680	0.5	PASS
11B	Ant1	2437	9.280	2432.400	2441.680	0.5	PASS
11B	Ant1	2462	9.280	2457.400	2466.680	0.5	PASS
11G	Ant1	2412	16.360	2403.920	2420.280	0.5	PASS
11G	Ant1	2437	16.360	2428.880	2445.240	0.5	PASS
11G	Ant1	2462	16.480	2453.800	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.480	2403.360	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.240	2445.840	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.240	2470.800	0.5	PASS

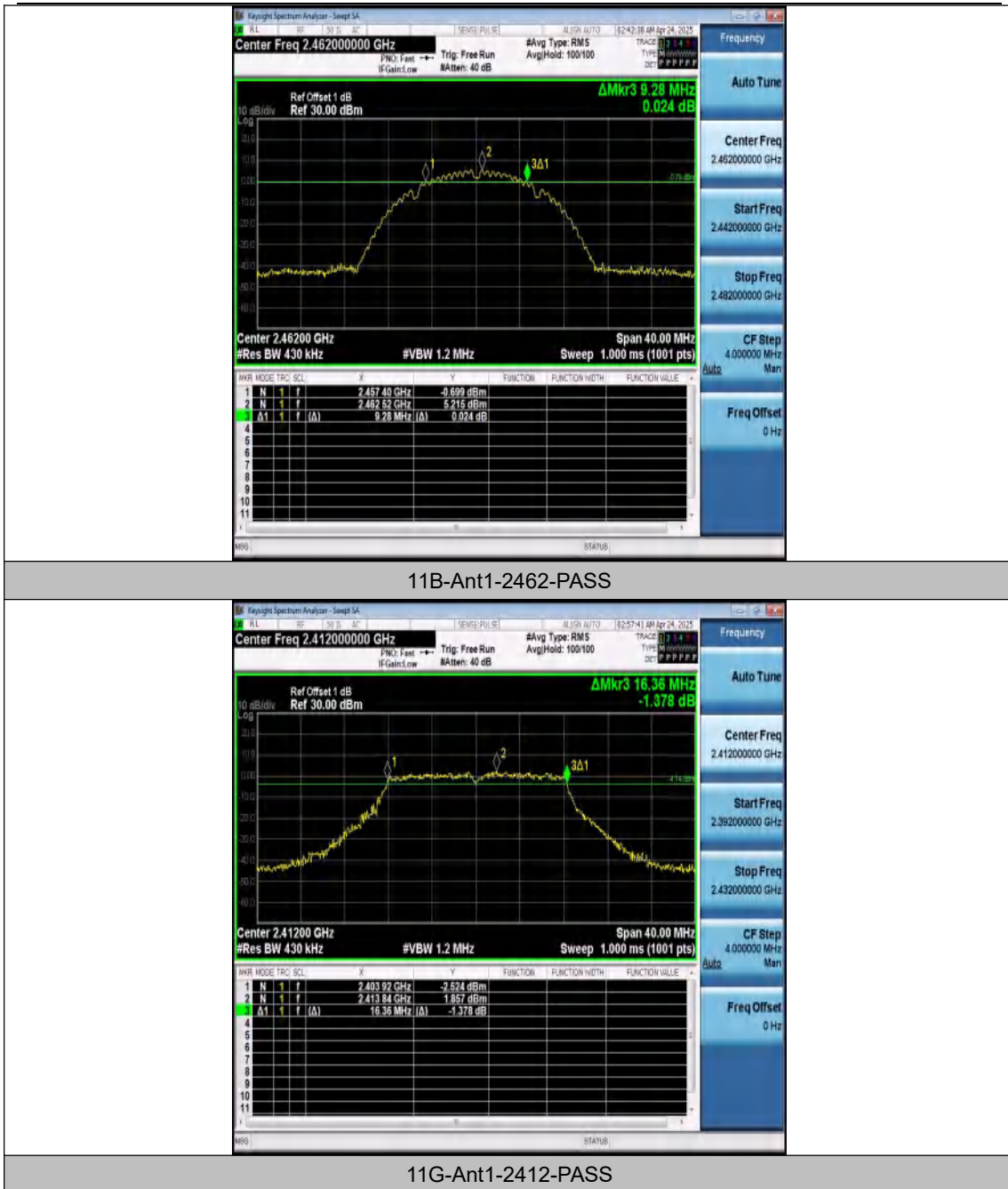
Test Graphs



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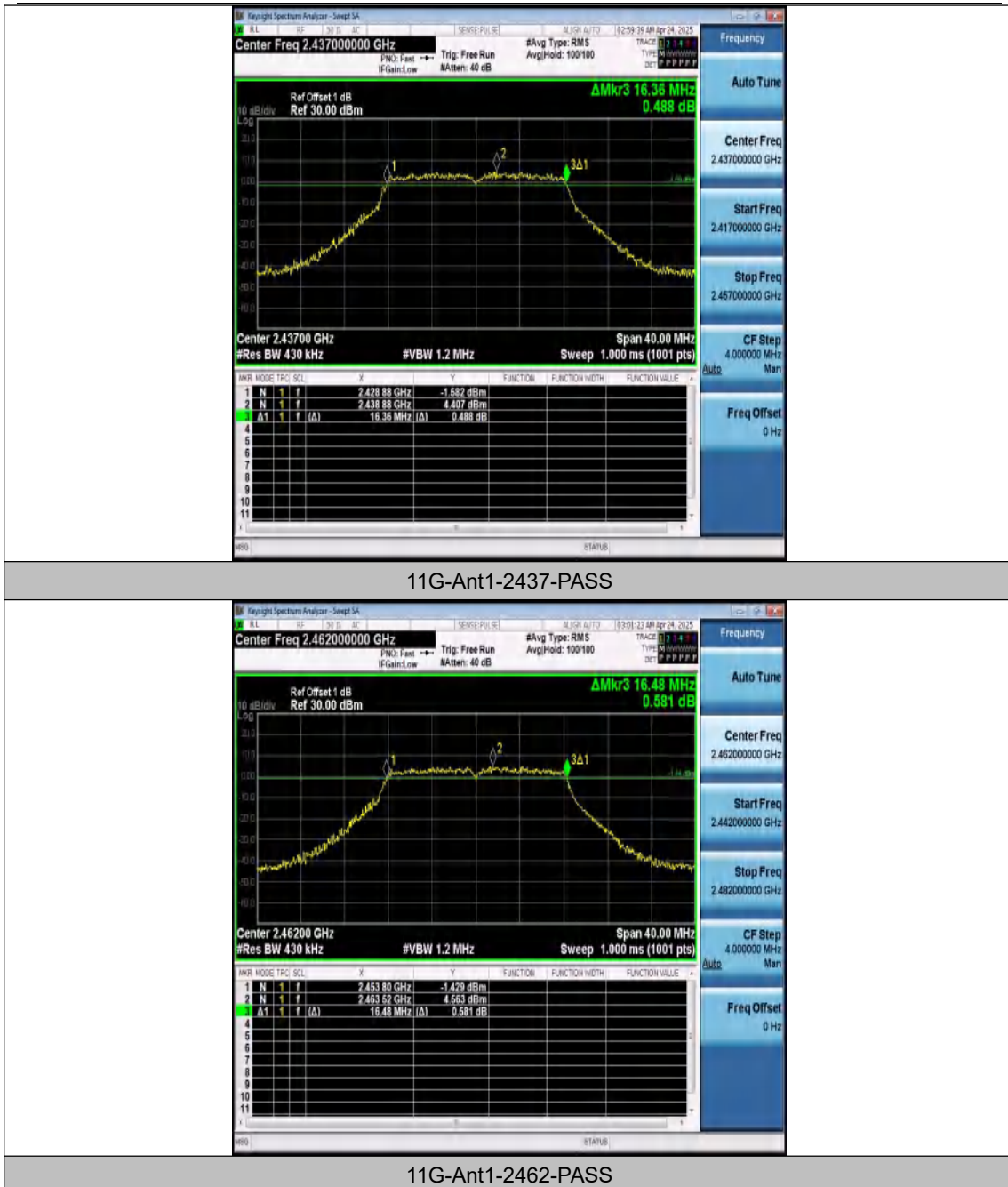
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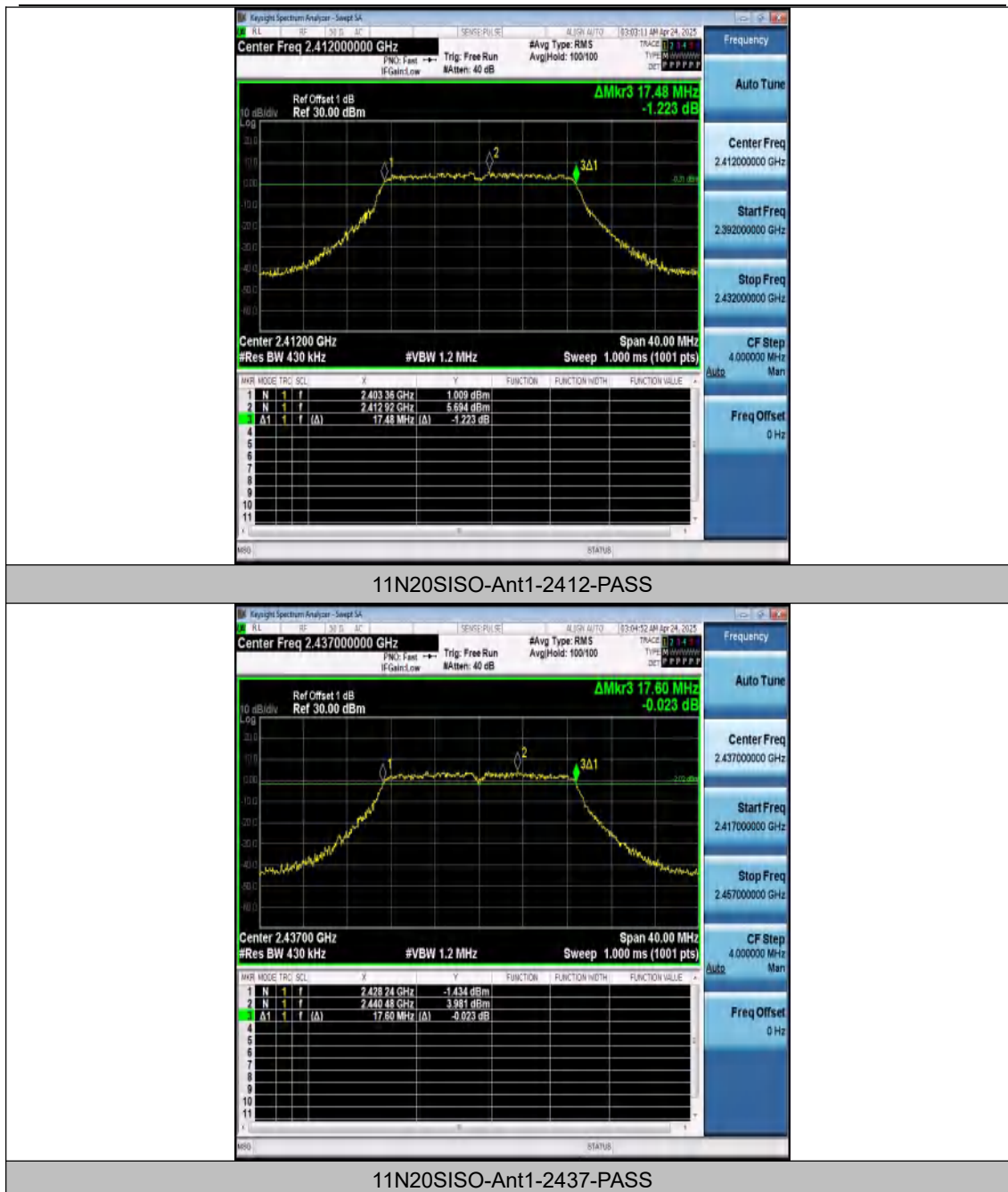


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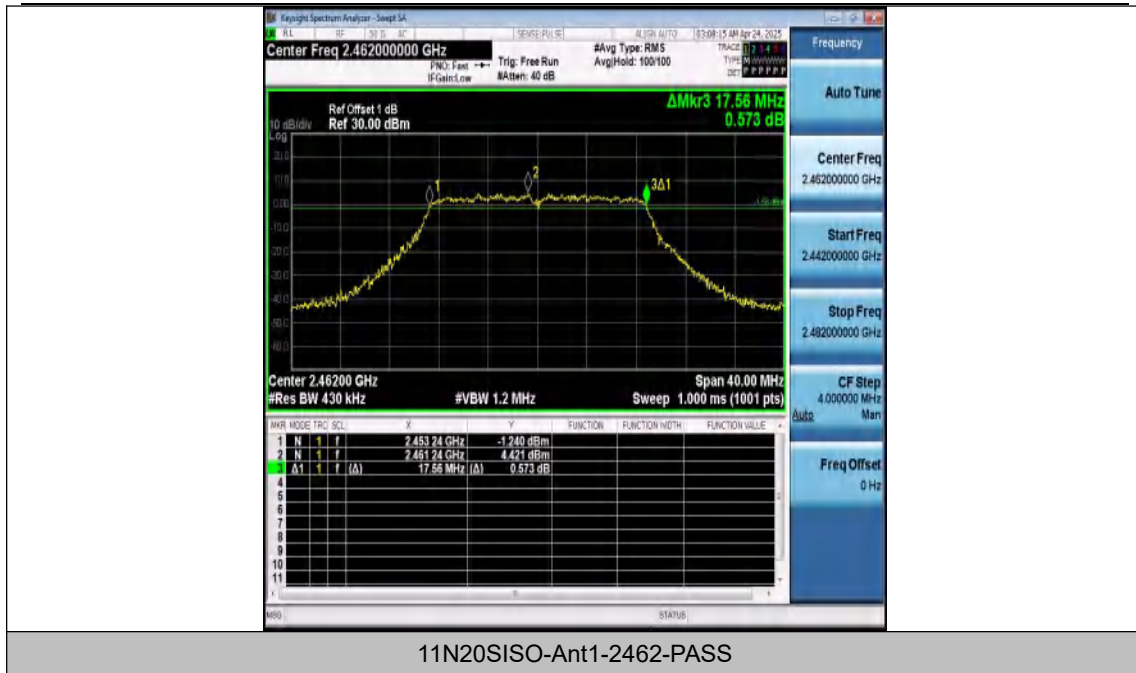




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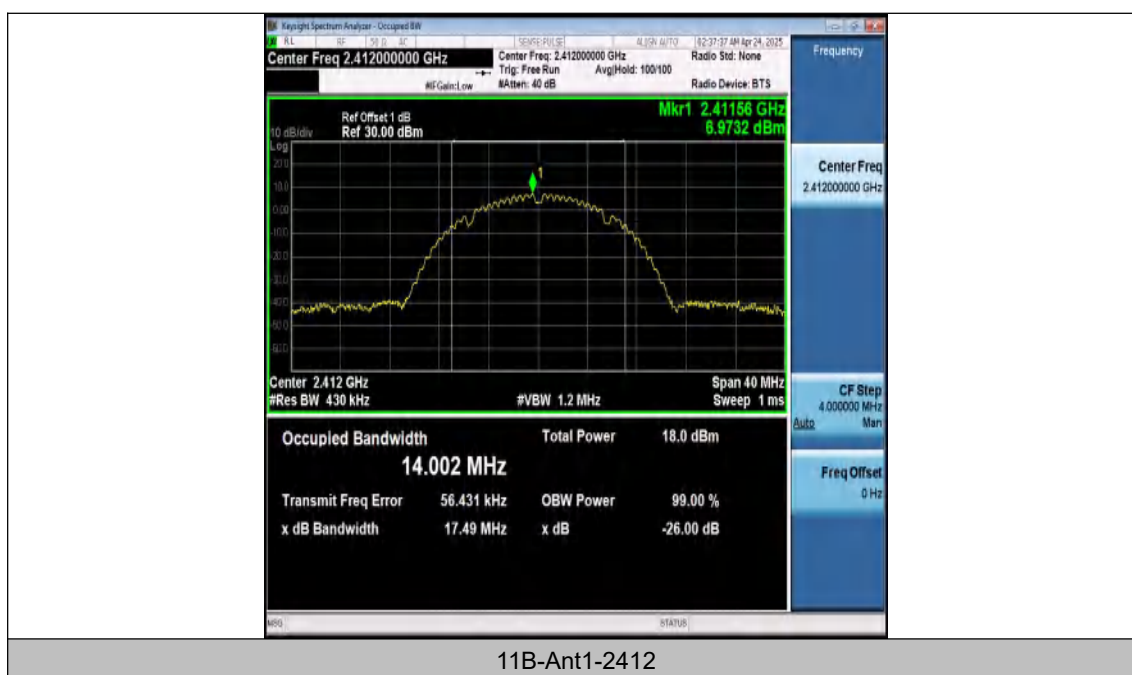
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.002	2405.0554	2419.0574	---	---
11B	Ant1	2437	14.069	2430.0060	2444.0750	---	---
11B	Ant1	2462	14.065	2455.0146	2469.0796	---	---
11G	Ant1	2412	17.022	2403.4738	2420.4958	---	---
11G	Ant1	2437	17.089	2428.4065	2445.4955	---	---
11G	Ant1	2462	17.026	2453.4890	2470.5150	---	---
11N20SISO	Ant1	2412	18.091	2403.0151	2421.1061	---	---
11N20SISO	Ant1	2437	18.114	2427.9786	2446.0926	---	---
11N20SISO	Ant1	2462	18.104	2452.9882	2471.0922	---	---

Test Graphs

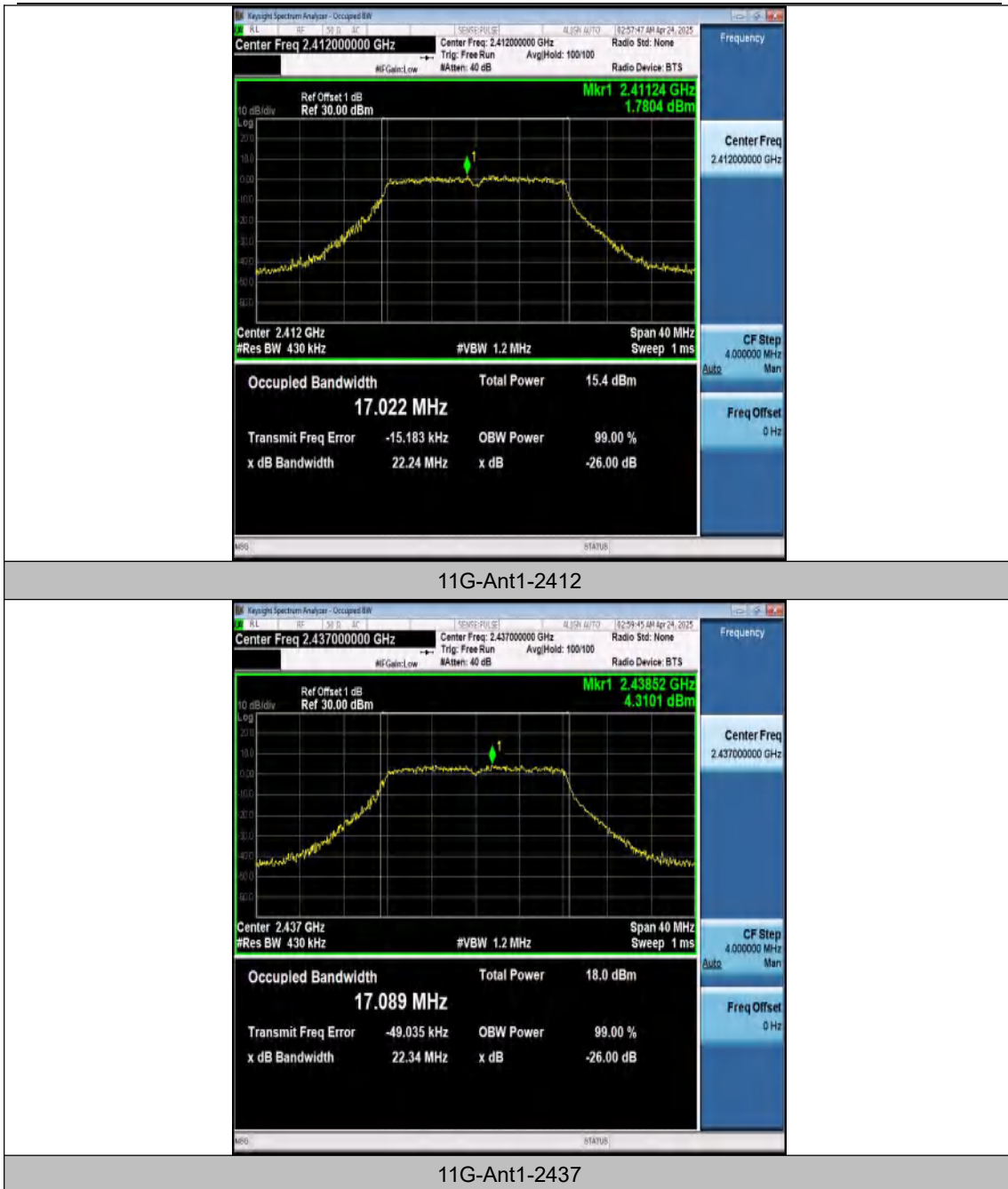




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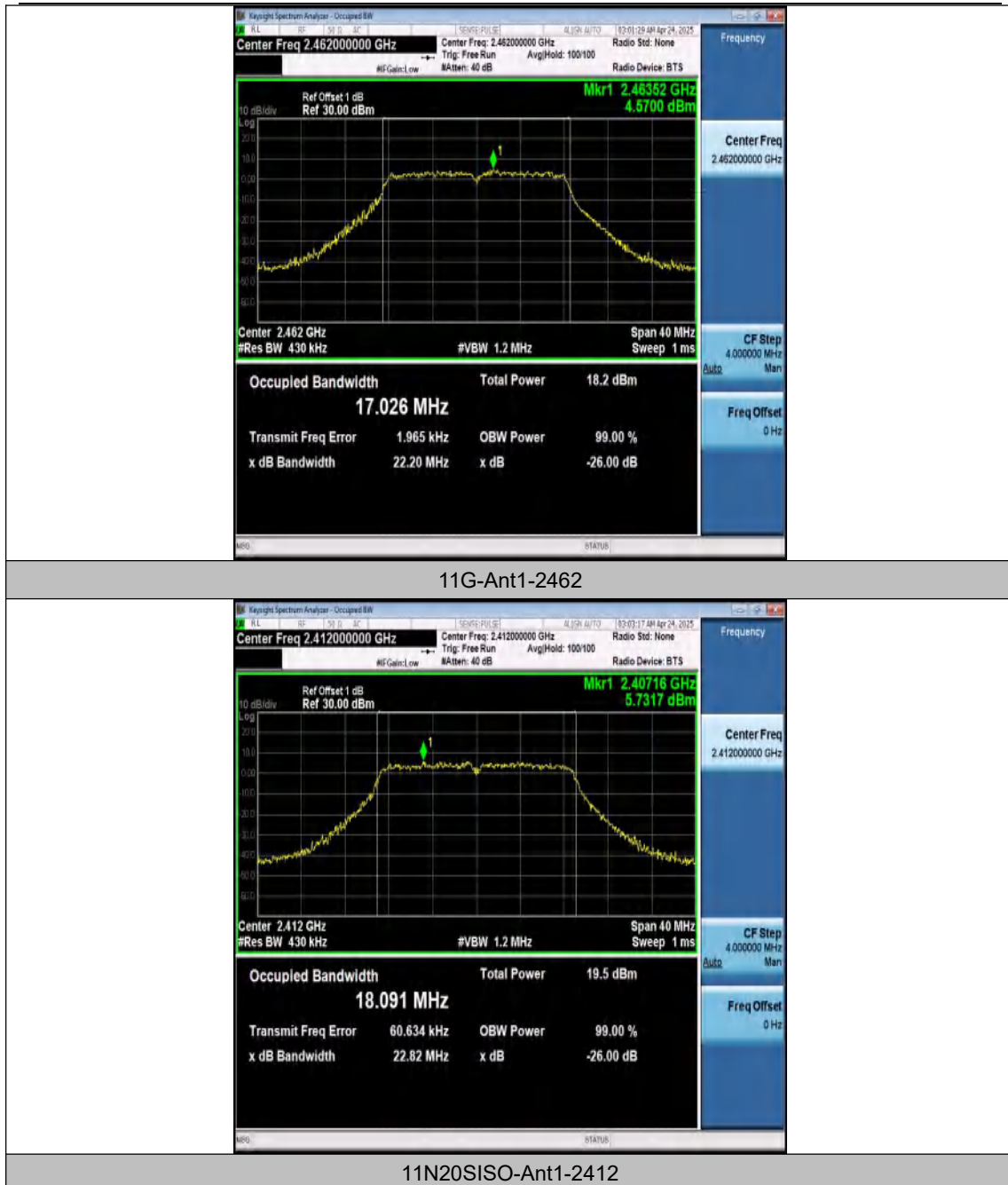
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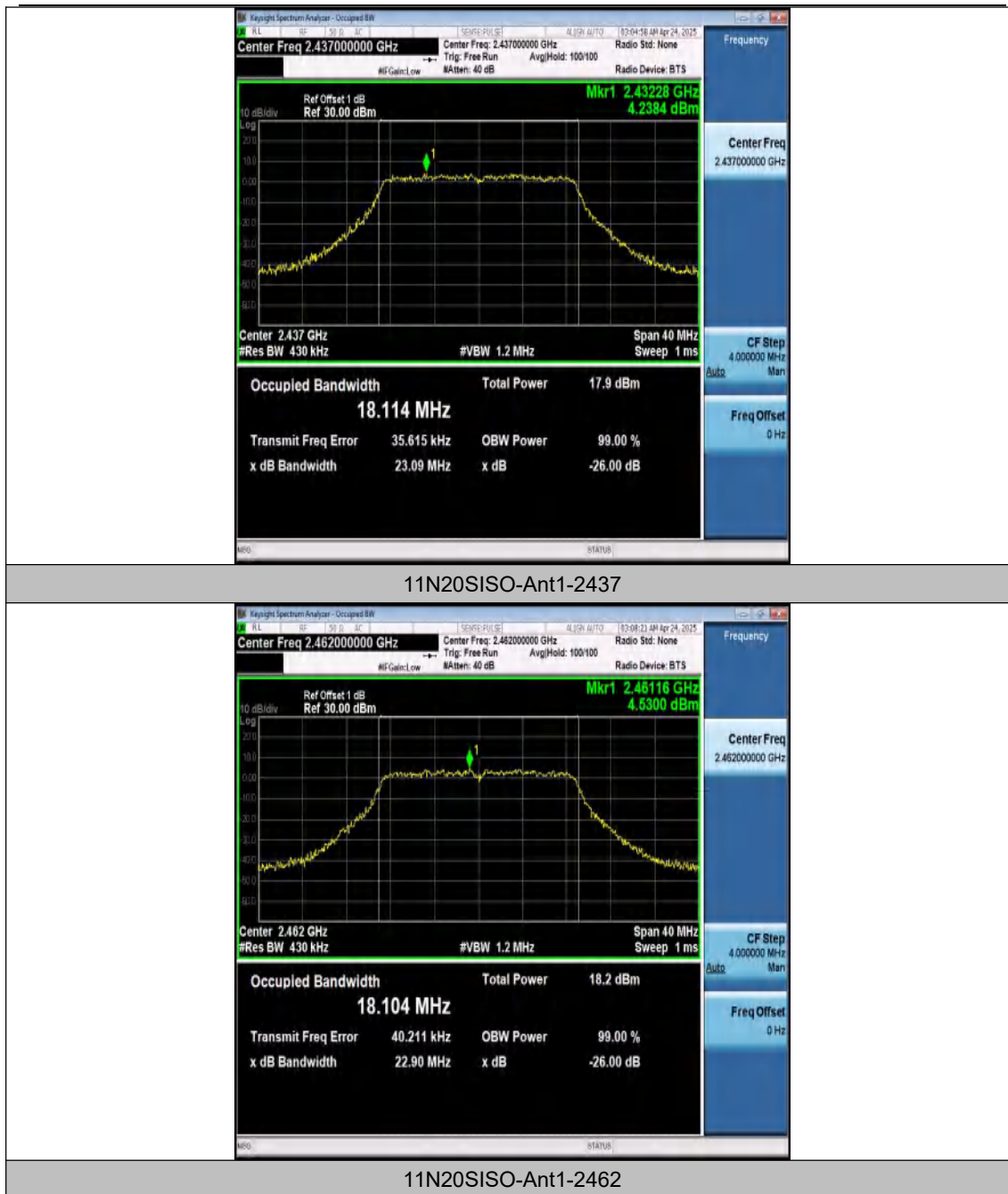
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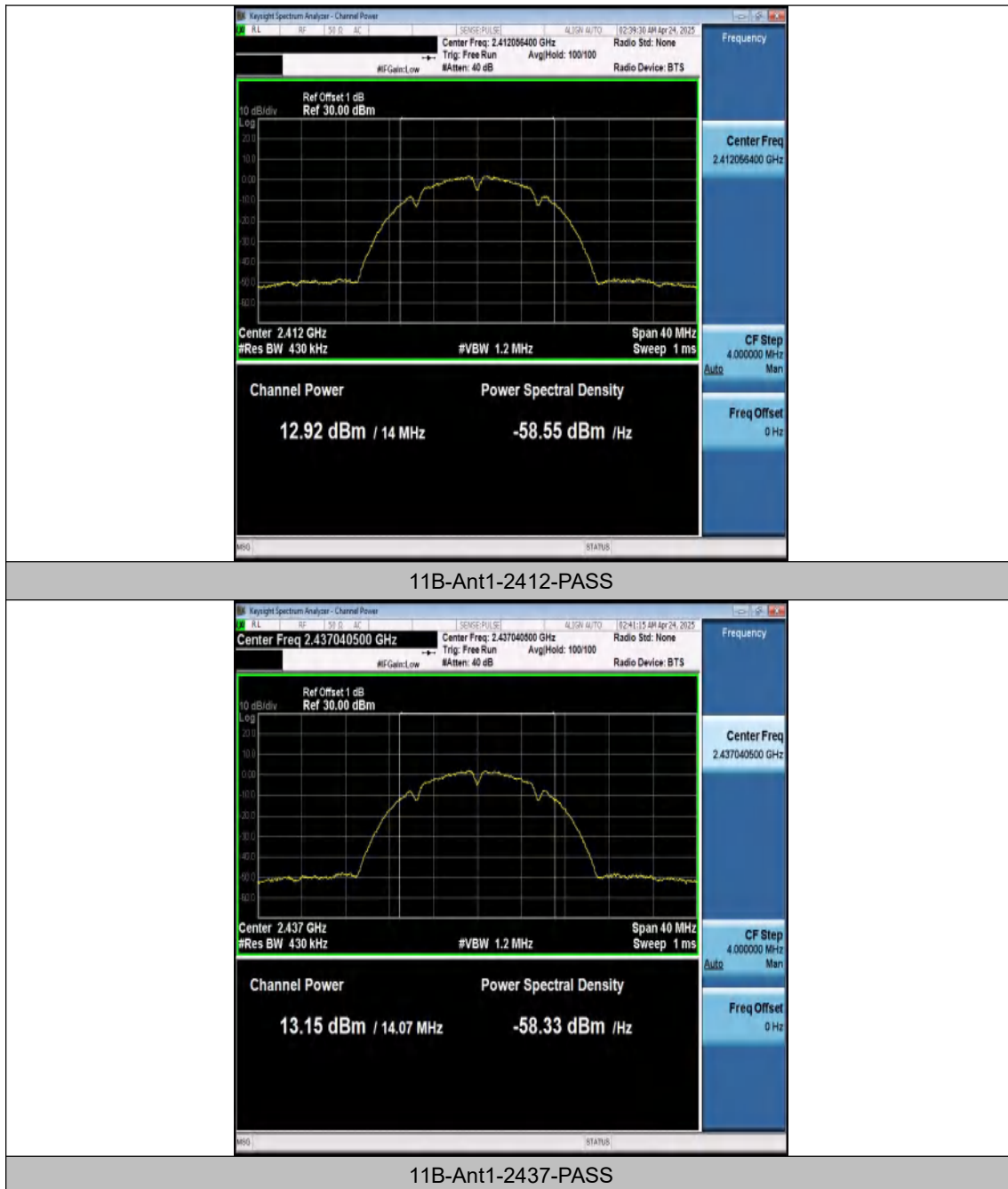
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	12.92	100.00	0.00	12.92	≤30.00	PASS
11B	Ant1	2437	13.15	100.00	0.00	13.15	≤30.00	PASS
11B	Ant1	2462	13.25	100.00	0.00	13.25	≤30.00	PASS
11G	Ant1	2412	11.69	100.00	0.00	11.69	≤30.00	PASS
11G	Ant1	2437	12.00	100.00	0.00	12.00	≤30.00	PASS
11G	Ant1	2462	12.16	100.00	0.00	12.16	≤30.00	PASS
11N20SI SO	Ant1	2412	13.37	100.00	0.00	13.37	≤30.00	PASS
11N20SI SO	Ant1	2437	11.90	100.00	0.00	11.90	≤30.00	PASS
11N20SI SO	Ant1	2462	12.11	100.00	0.00	12.11	≤30.00	PASS

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

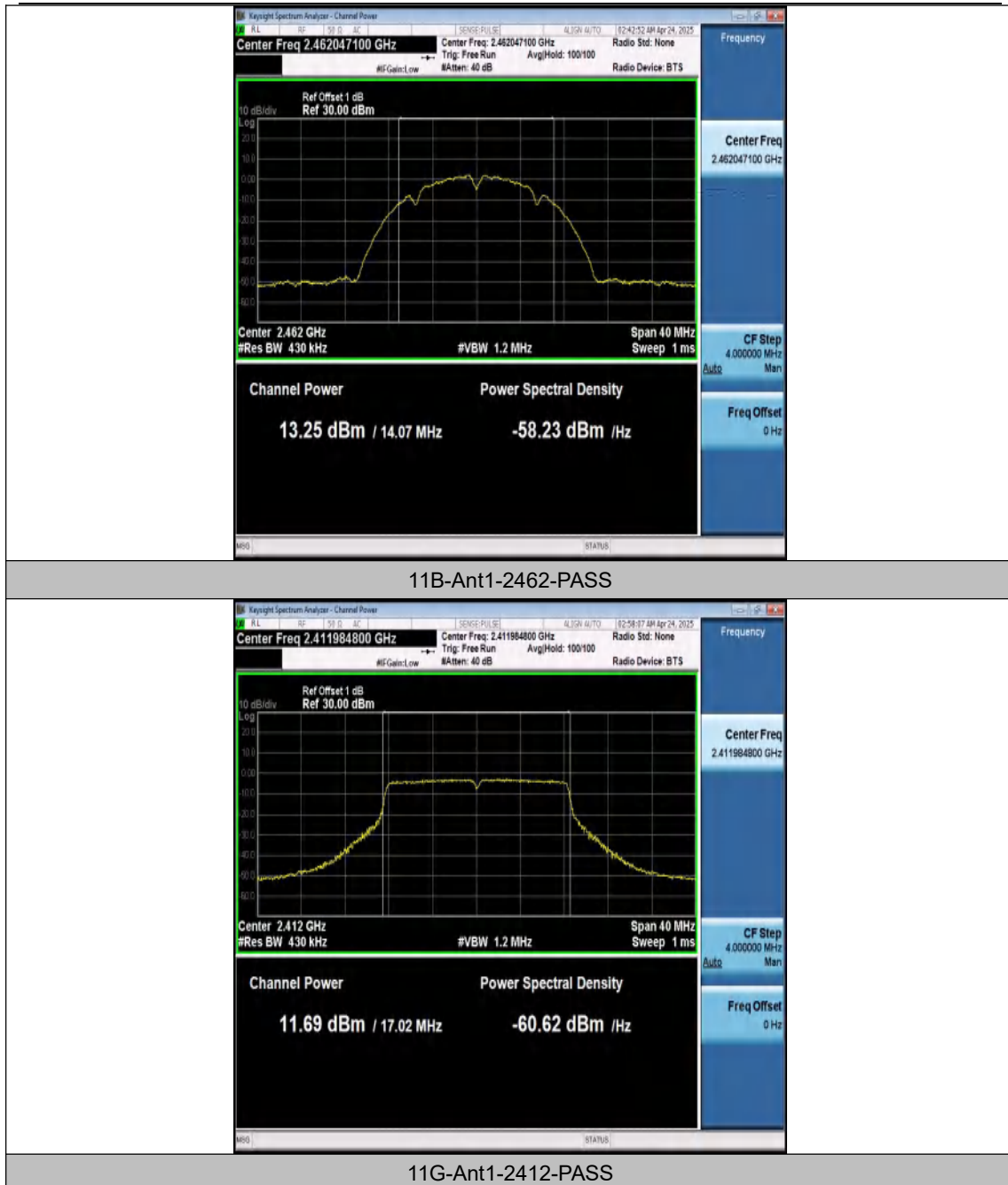
Test Graphs Average



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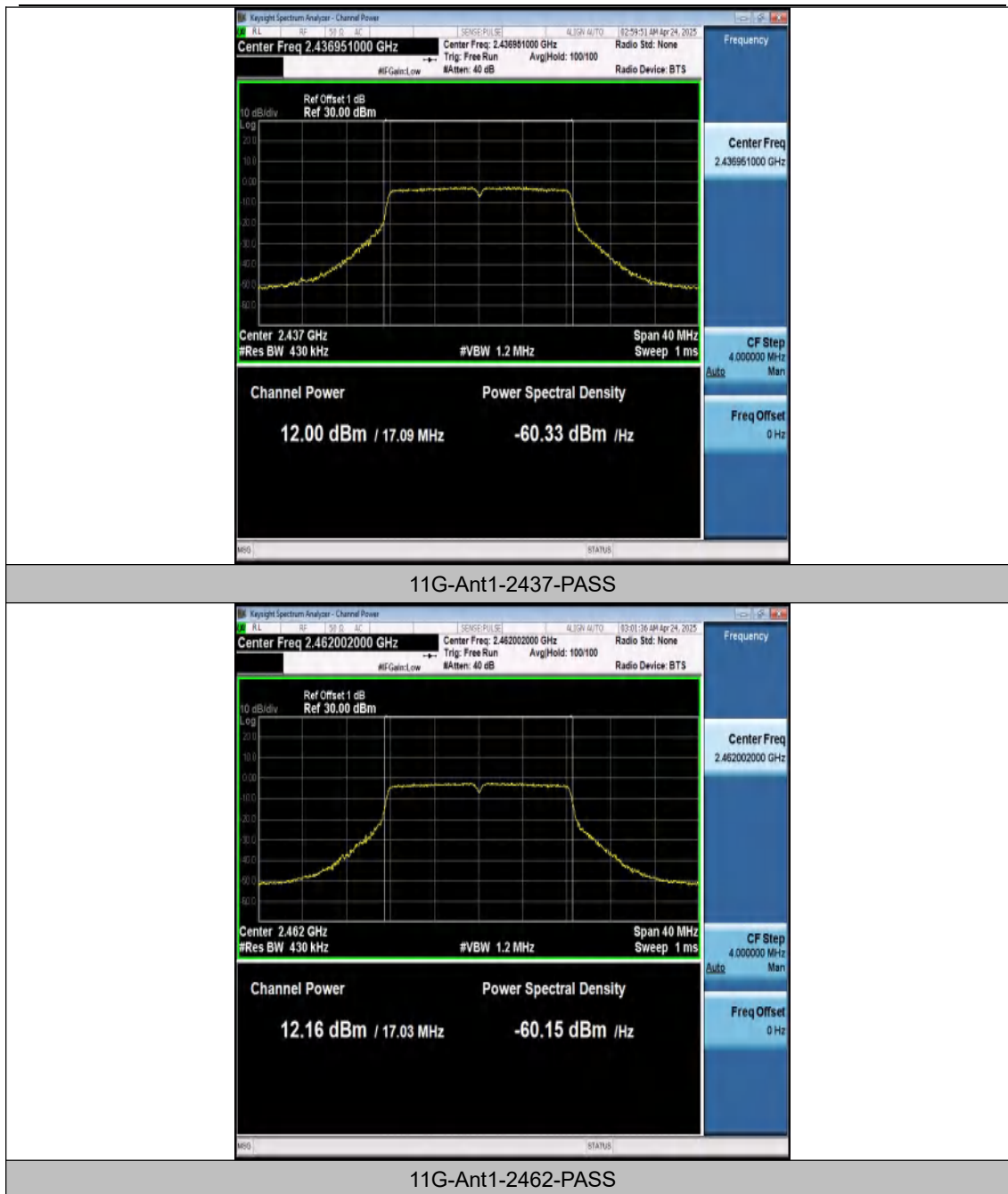
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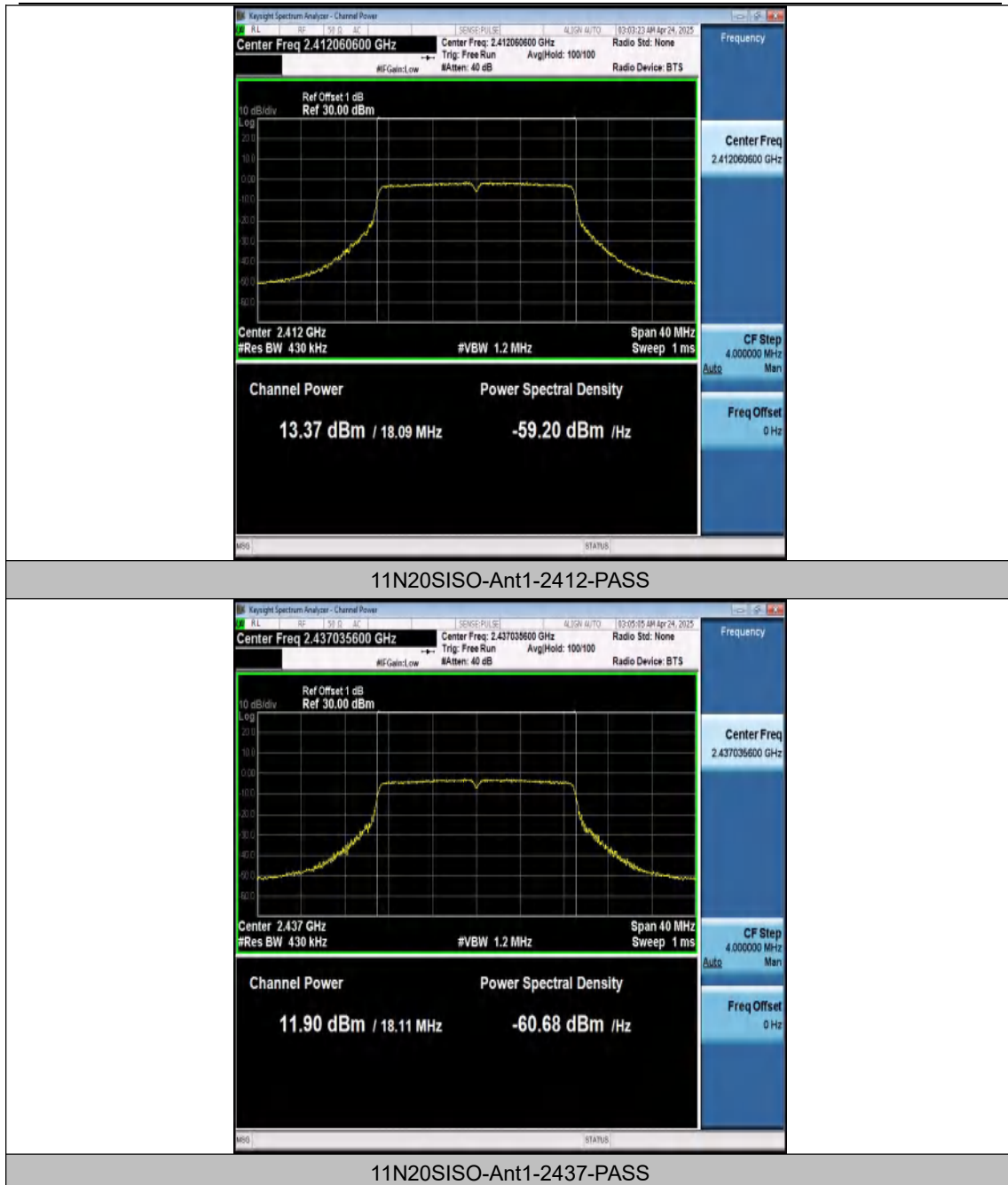
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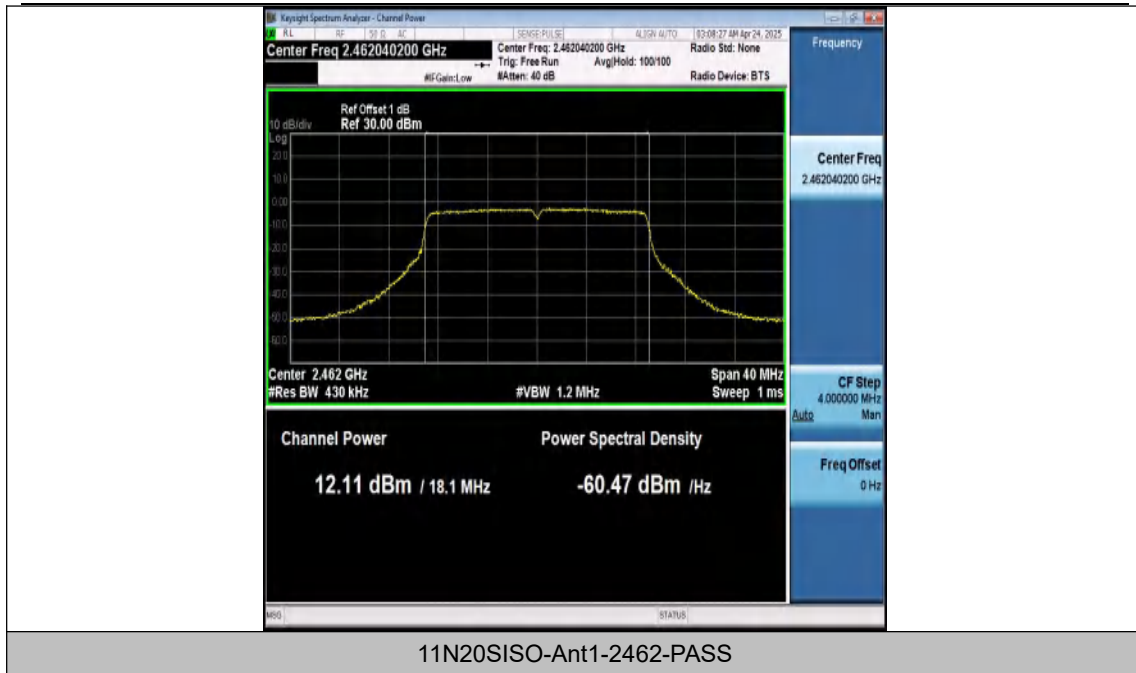
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Appendix D: Maximum power spectral density

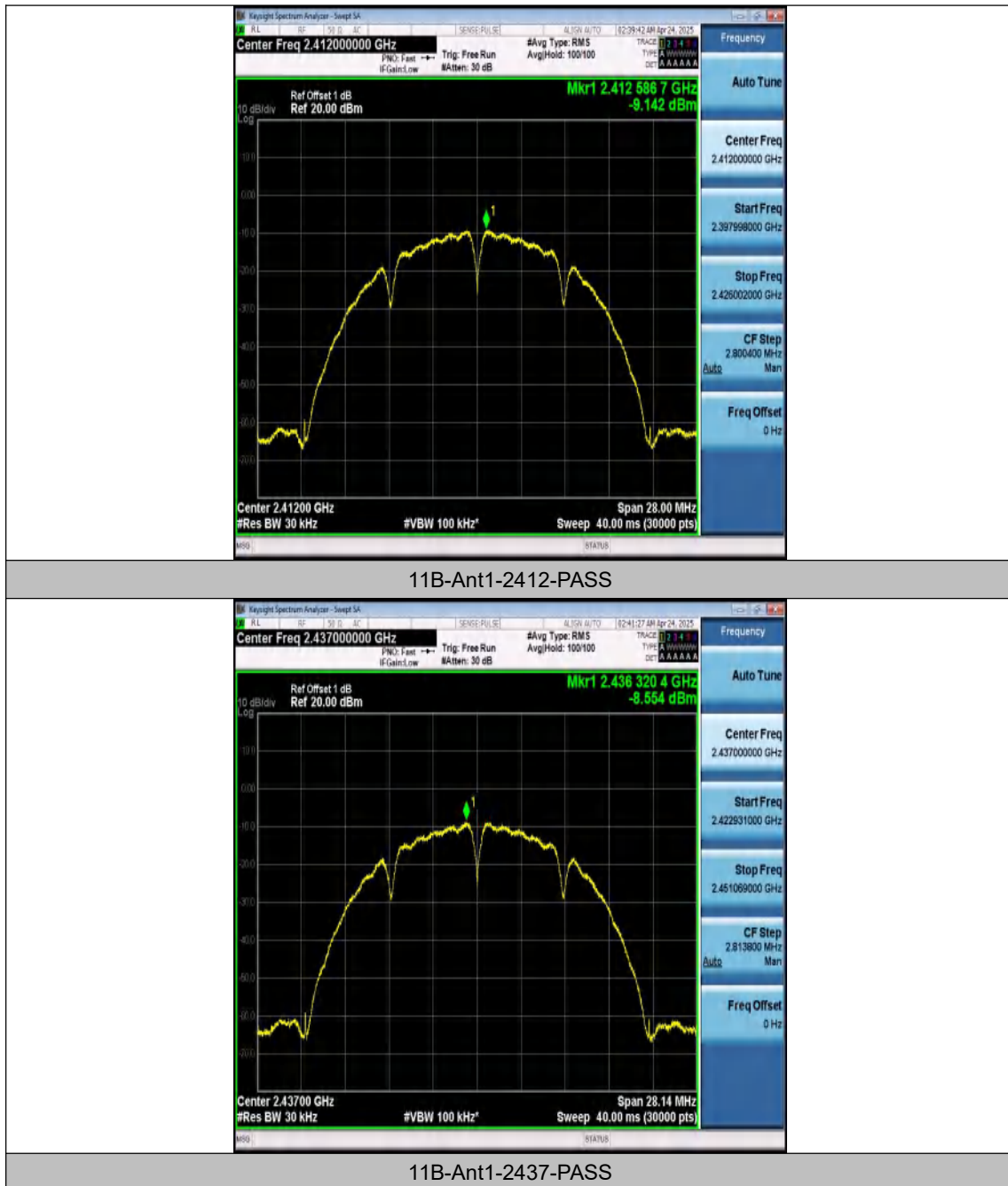
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.14	-19.14	≤8.00	PASS
11B	Ant1	2437	-8.55	-18.55	≤8.00	PASS
11B	Ant1	2462	-8.39	-18.39	≤8.00	PASS
11G	Ant1	2412	-12.86	-22.86	≤8.00	PASS
11G	Ant1	2437	-12.20	-22.2	≤8.00	PASS
11G	Ant1	2462	-12.04	-22.04	≤8.00	PASS
11N20SISO	Ant1	2412	-11.02	-21.02	≤8.00	PASS
11N20SISO	Ant1	2437	-12.59	-22.59	≤8.00	PASS
11N20SISO	Ant1	2462	-12.33	-22.33	≤8.00	PASS

Note:

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

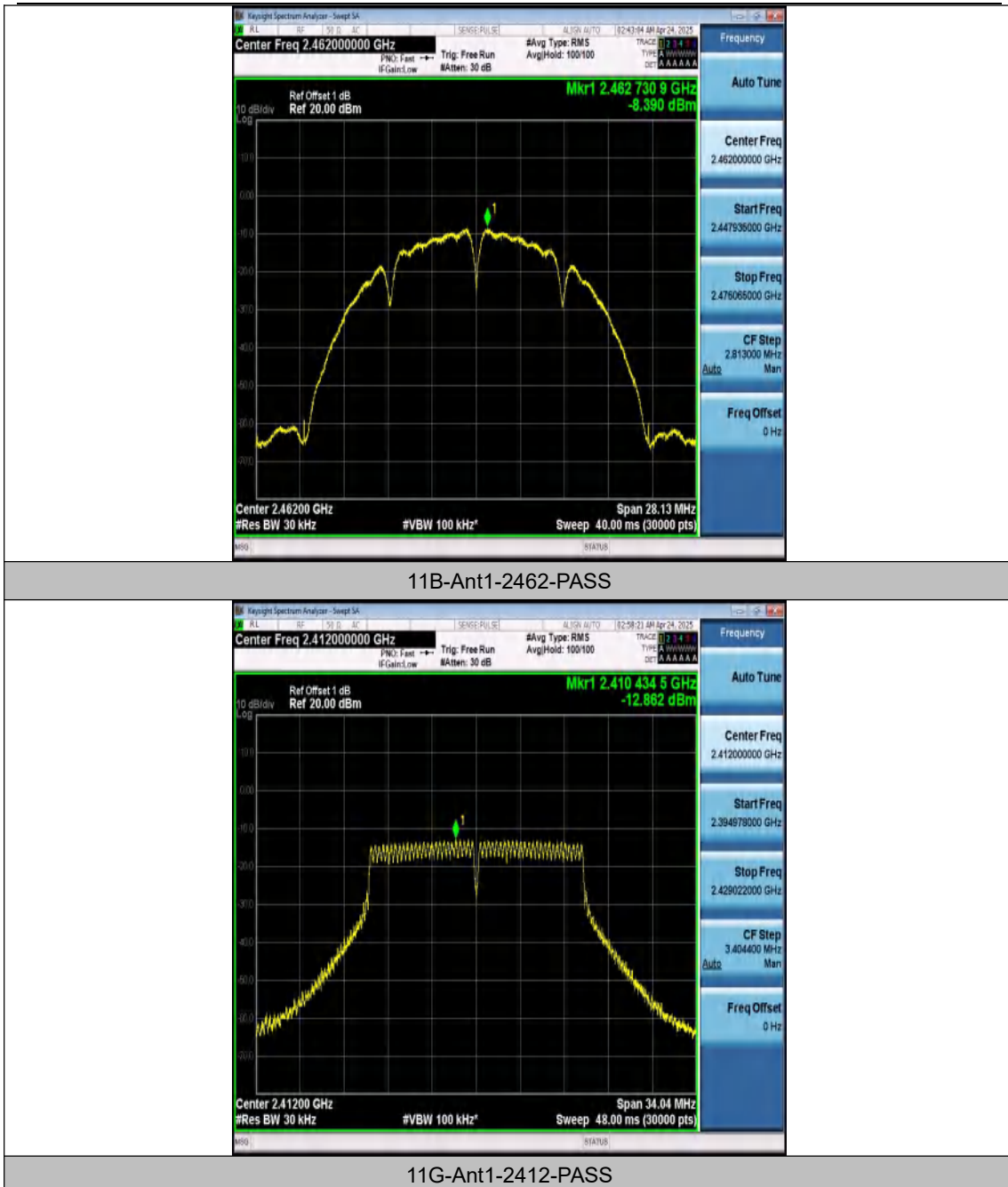
Test Graphs



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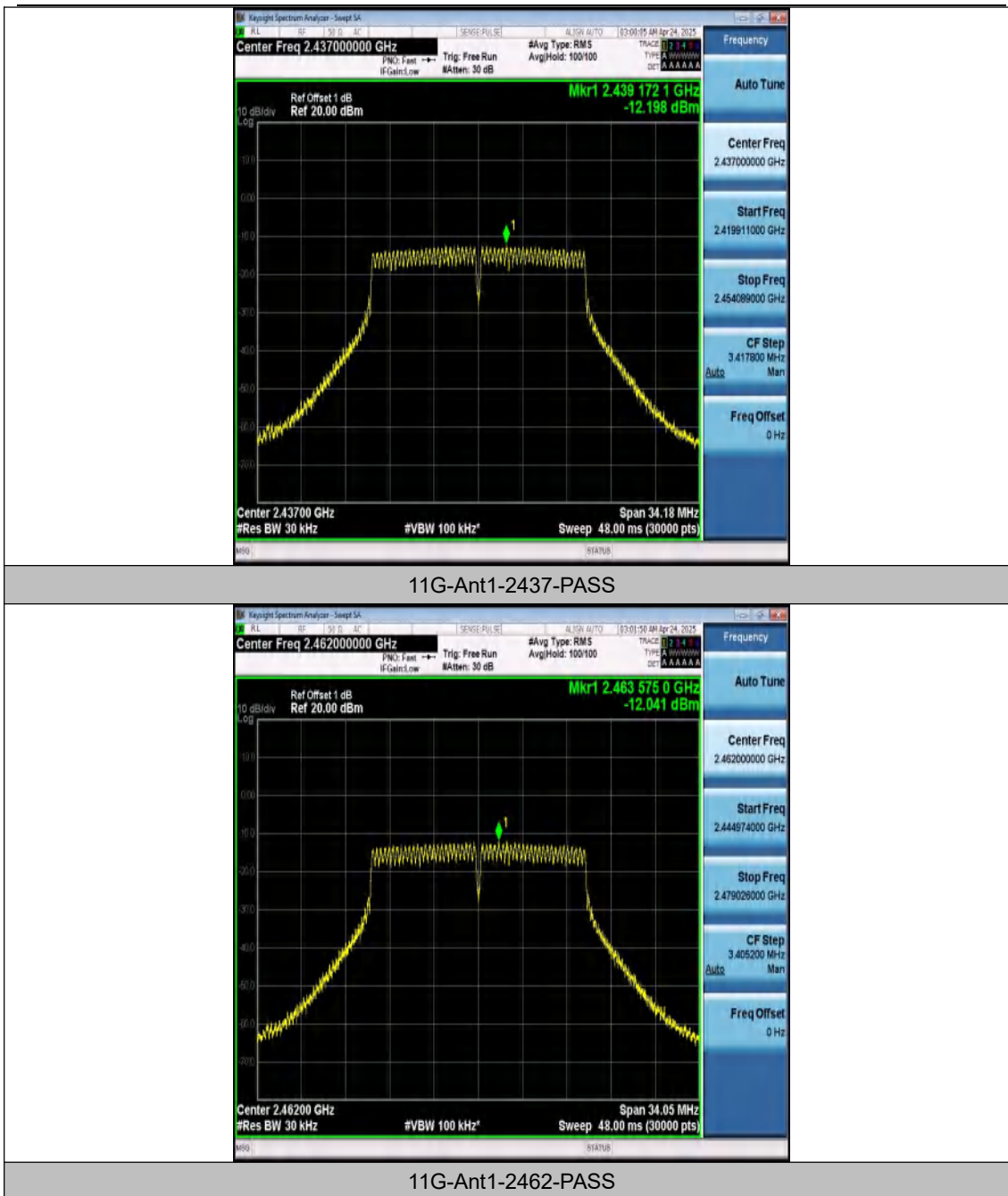
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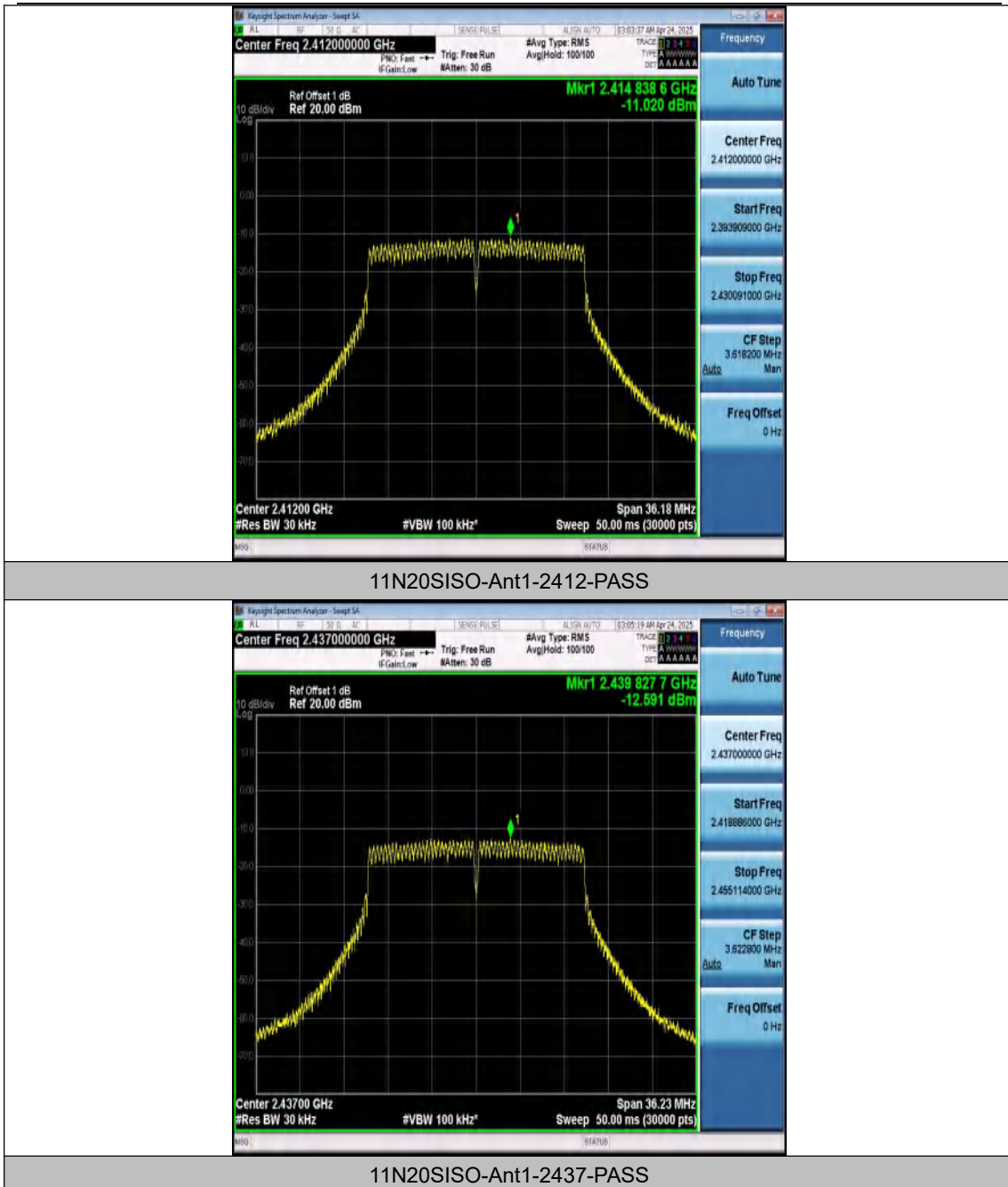
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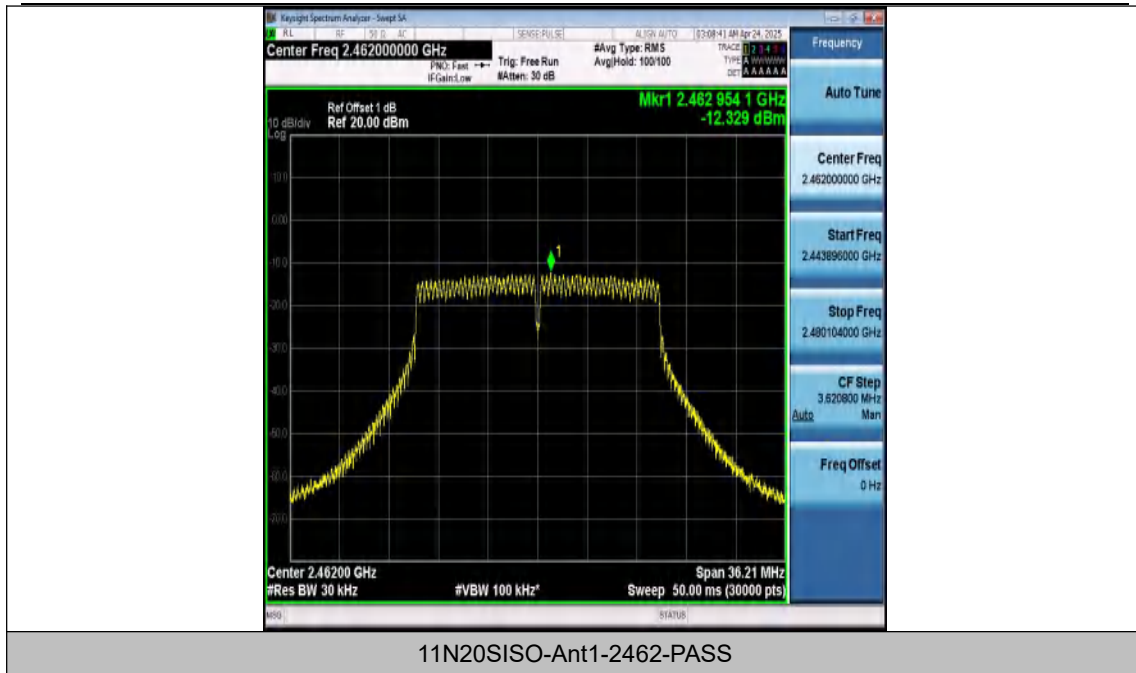
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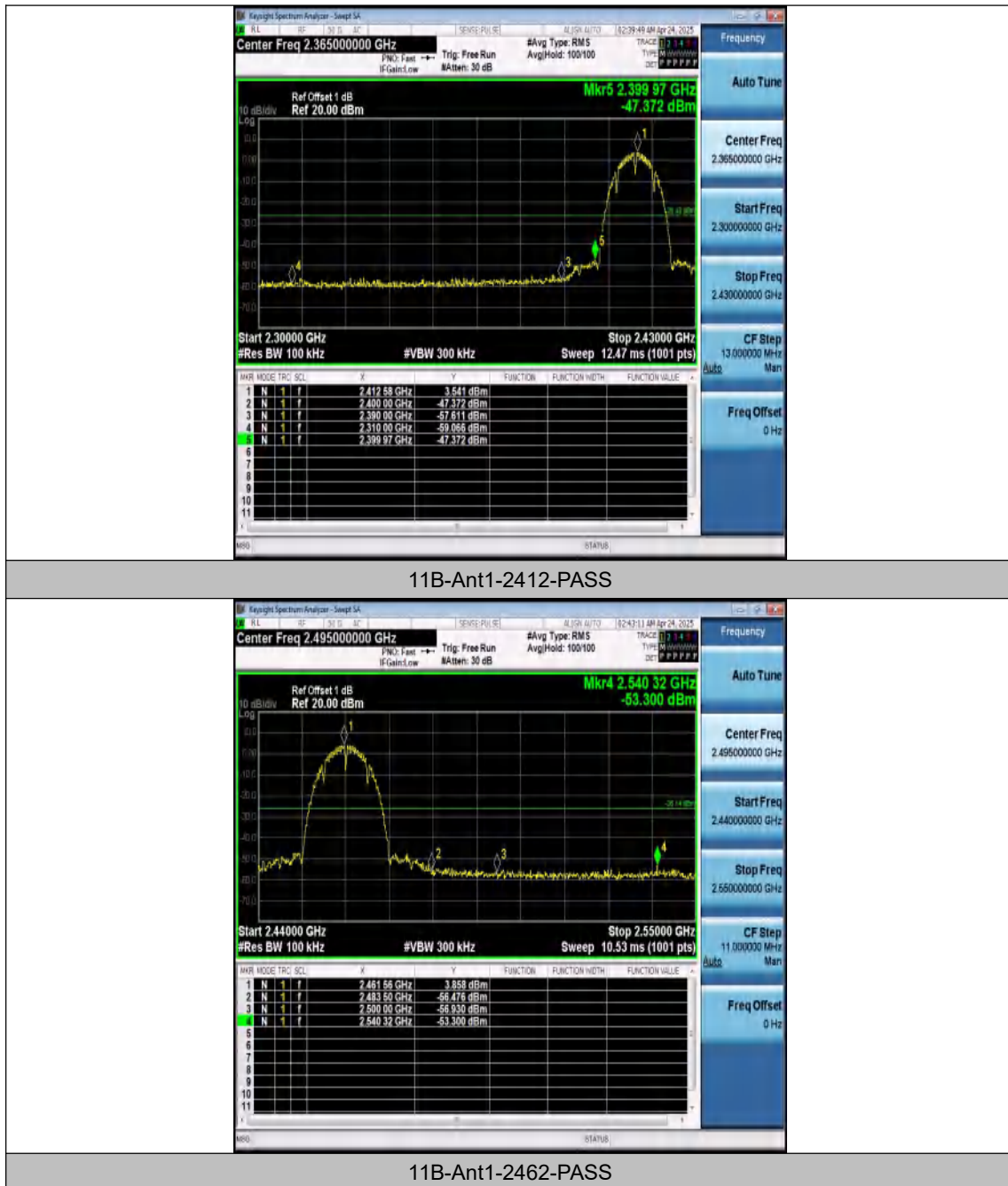
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.54	-47.37	≤-26.46	PASS
11B	Ant1	High	2462	3.86	-53.3	≤-26.14	PASS
11G	Ant1	Low	2412	-2.51	-35.35	≤-32.51	PASS
11G	Ant1	High	2462	-2.03	-52.3	≤-32.03	PASS
11N20SISO	Ant1	Low	2412	-0.30	-32.76	≤-30.3	PASS
11N20SISO	Ant1	High	2462	-2.19	-52.41	≤-32.19	PASS

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'offset' of the Spectrum Analyzer during the test.

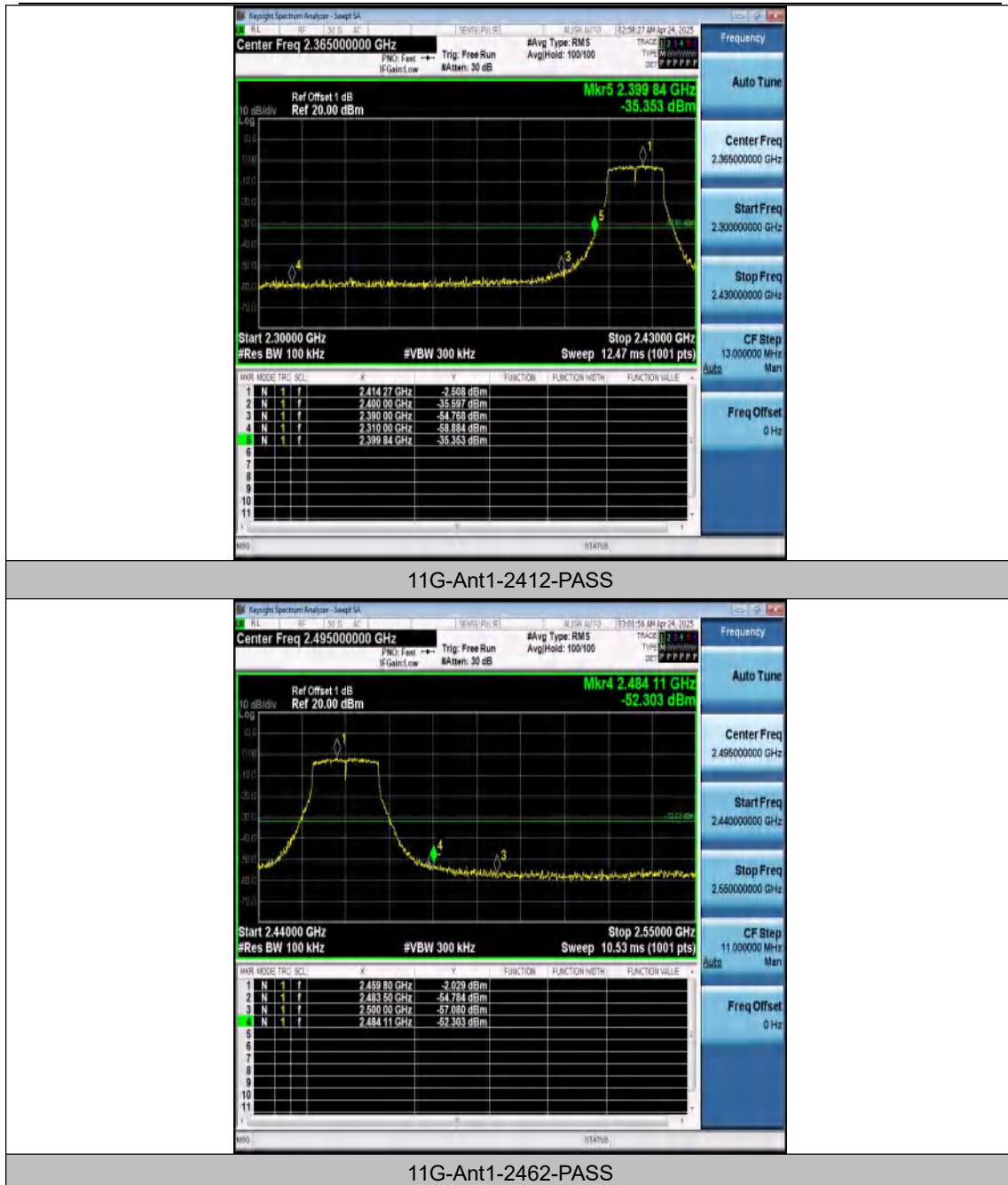
Test Graphs

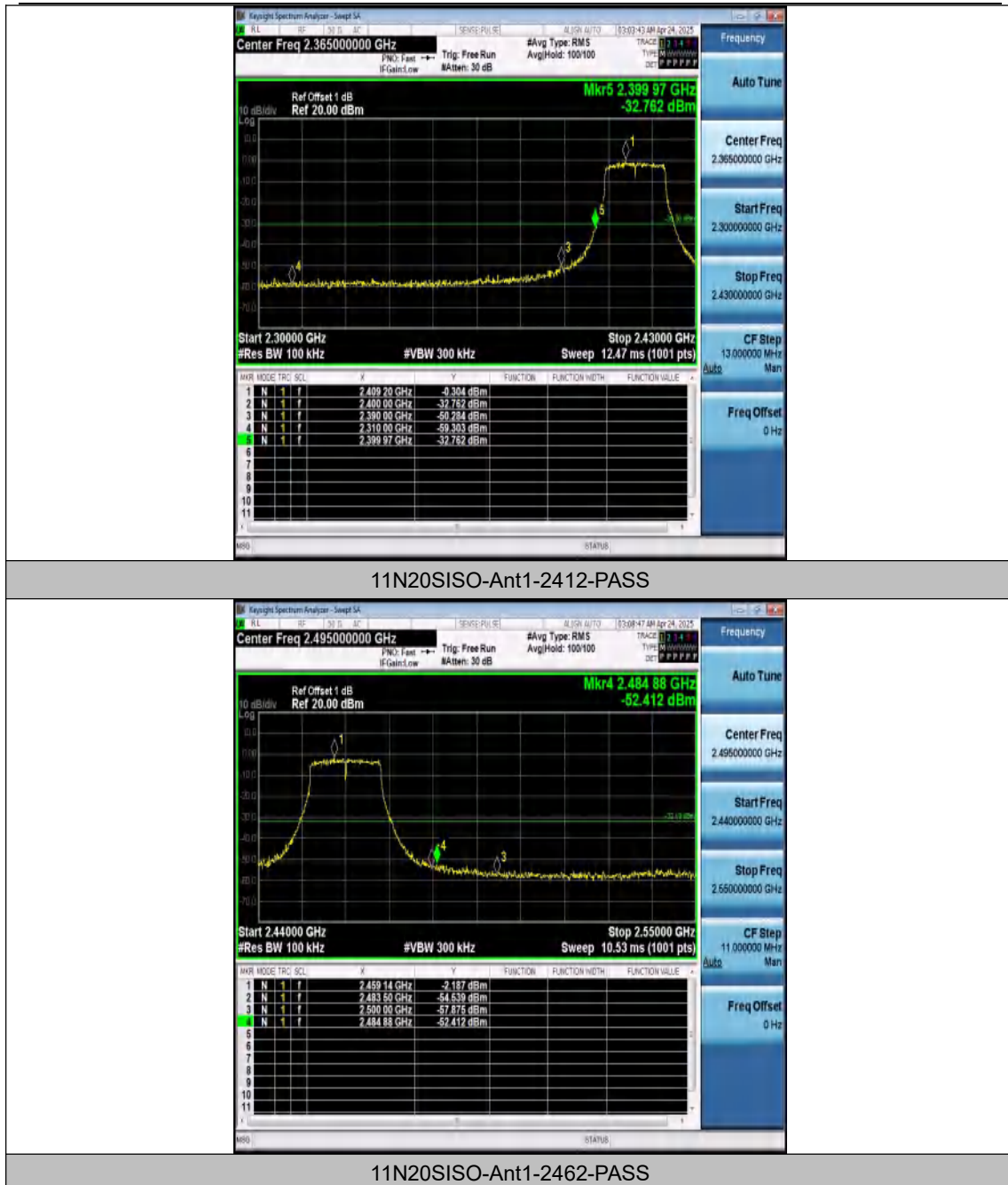


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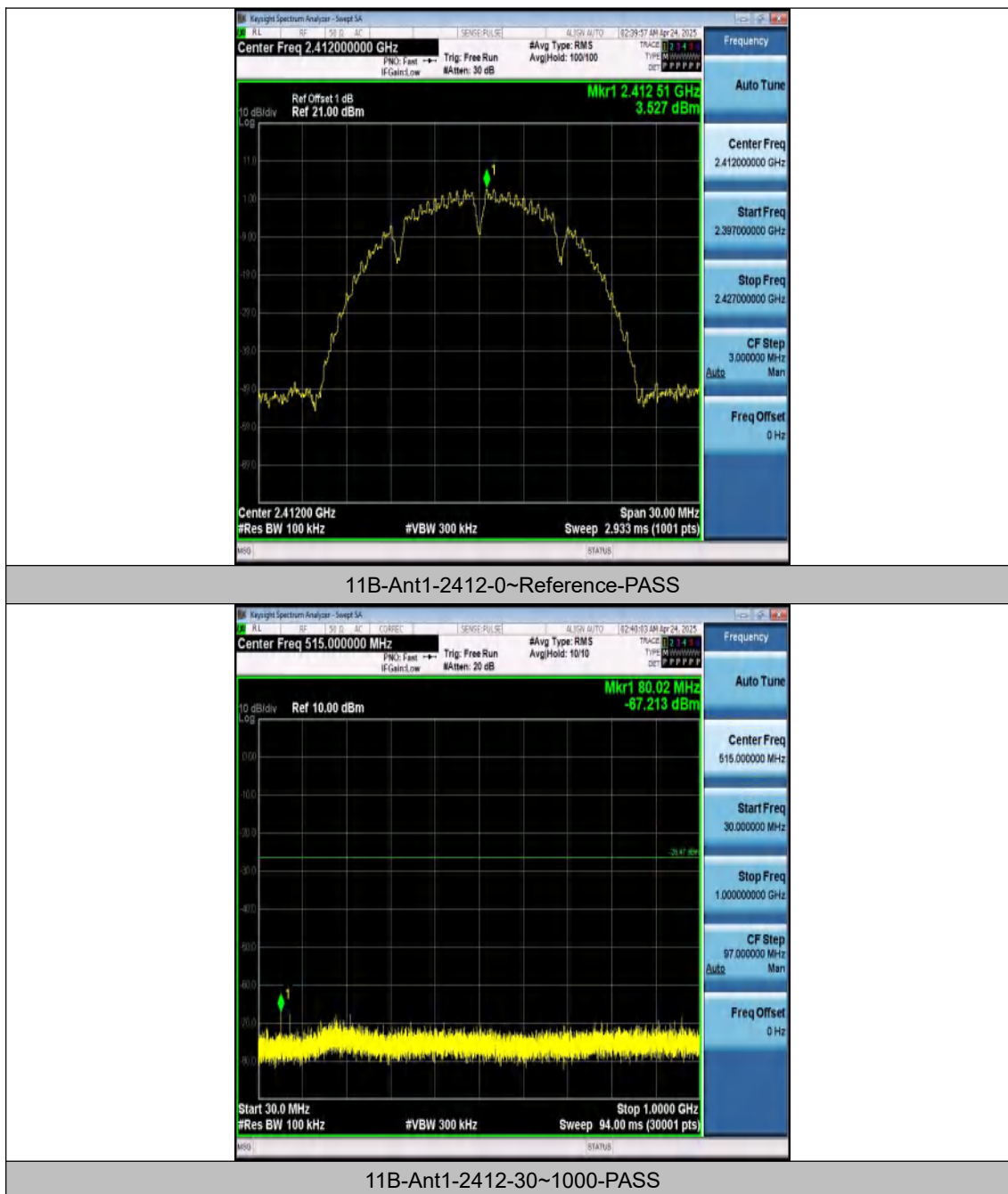
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.53	3.53	---	PASS
11B	Ant1	2412	30~1000	3.53	-67.21	≤-26.47	PASS
11B	Ant1	2412	1000~26500	3.53	-46.95	≤-26.47	PASS
11B	Ant1	2437	0~Reference	3.54	3.54	---	PASS
11B	Ant1	2437	30~1000	3.54	-66.46	≤-26.46	PASS
11B	Ant1	2437	1000~26500	3.54	-48.81	≤-26.46	PASS
11B	Ant1	2462	0~Reference	3.93	3.93	---	PASS
11B	Ant1	2462	30~1000	3.93	-67.47	≤-26.07	PASS
11B	Ant1	2462	1000~26500	3.93	-49.04	≤-26.07	PASS
11G	Ant1	2412	0~Reference	-2.51	-2.51	---	PASS
11G	Ant1	2412	30~1000	-2.51	-65.44	≤-32.51	PASS
11G	Ant1	2412	1000~26500	-2.51	-52	≤-32.51	PASS
11G	Ant1	2437	0~Reference	-2.14	-2.14	---	PASS
11G	Ant1	2437	30~1000	-2.14	-64.9	≤-32.14	PASS
11G	Ant1	2437	1000~26500	-2.14	-52.79	≤-32.14	PASS
11G	Ant1	2462	0~Reference	-2.07	-2.07	---	PASS
11G	Ant1	2462	30~1000	-2.07	-64.52	≤-32.07	PASS
11G	Ant1	2462	1000~26500	-2.07	-53.51	≤-32.07	PASS
11N20SISO	Ant1	2412	0~Reference	-0.95	-0.95	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.95	-65.29	≤-30.95	PASS
11N20SISO	Ant1	2412	1000~26500	-0.95	-53.26	≤-30.95	PASS
11N20SISO	Ant1	2437	0~Reference	-2.05	-2.05	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.05	-65.11	≤-32.05	PASS
11N20SISO	Ant1	2437	1000~26500	-2.05	-52.89	≤-32.05	PASS
11N20SISO	Ant1	2462	0~Reference	-2.09	-2.09	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.09	-64.92	≤-32.09	PASS
11N20SISO	Ant1	2462	1000~26500	-2.09	-54.42	≤-32.09	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

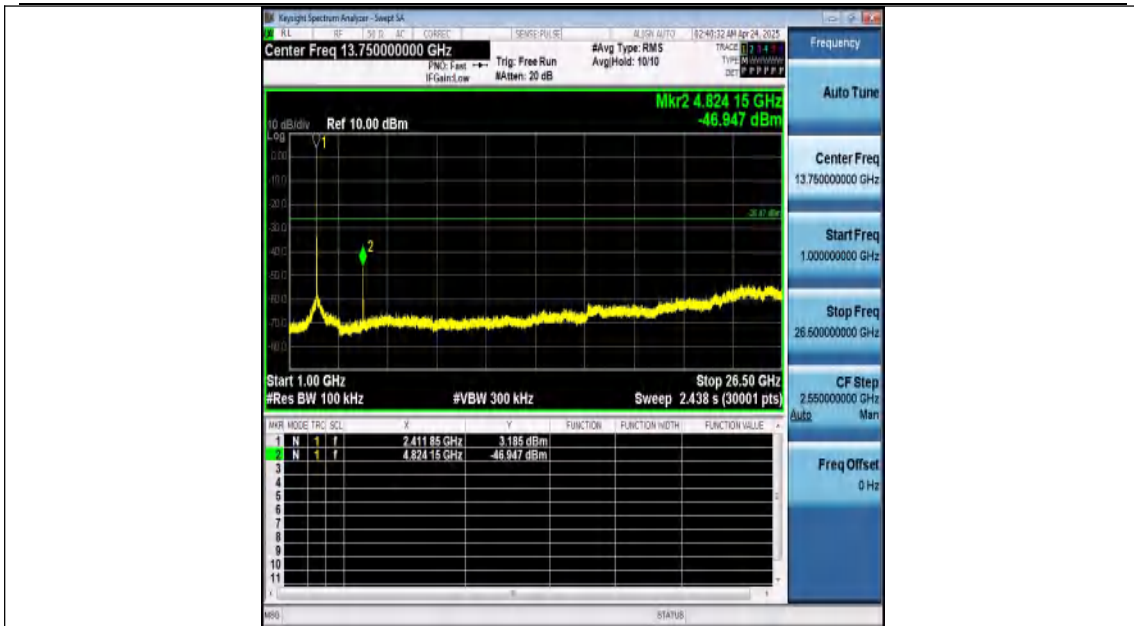
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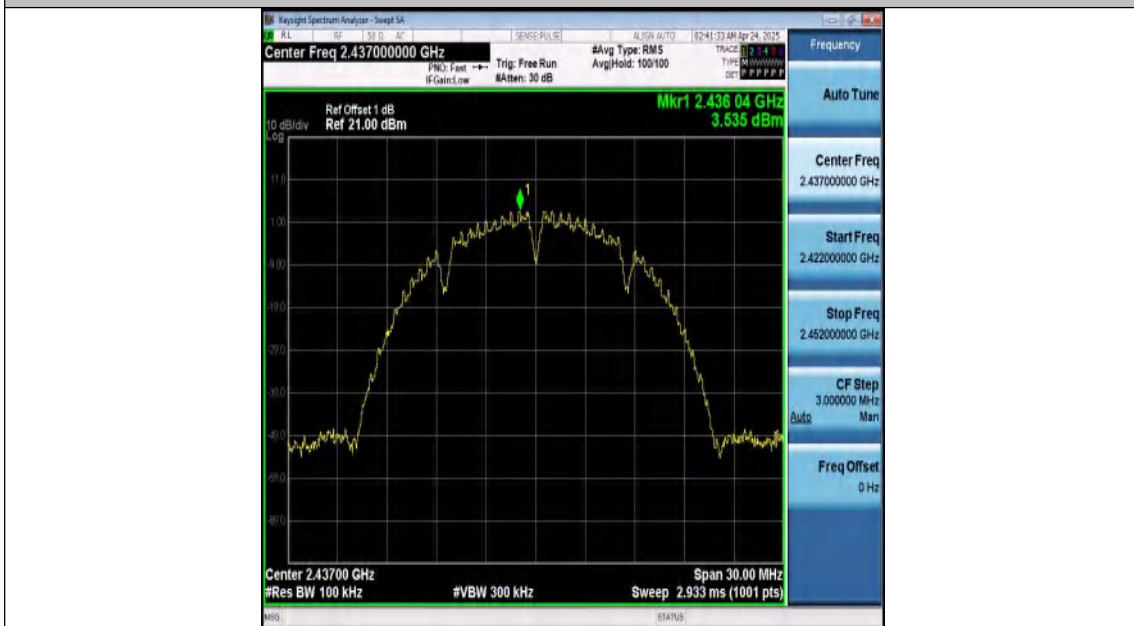
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11B-Ant1-2412-1000~26500-PASS

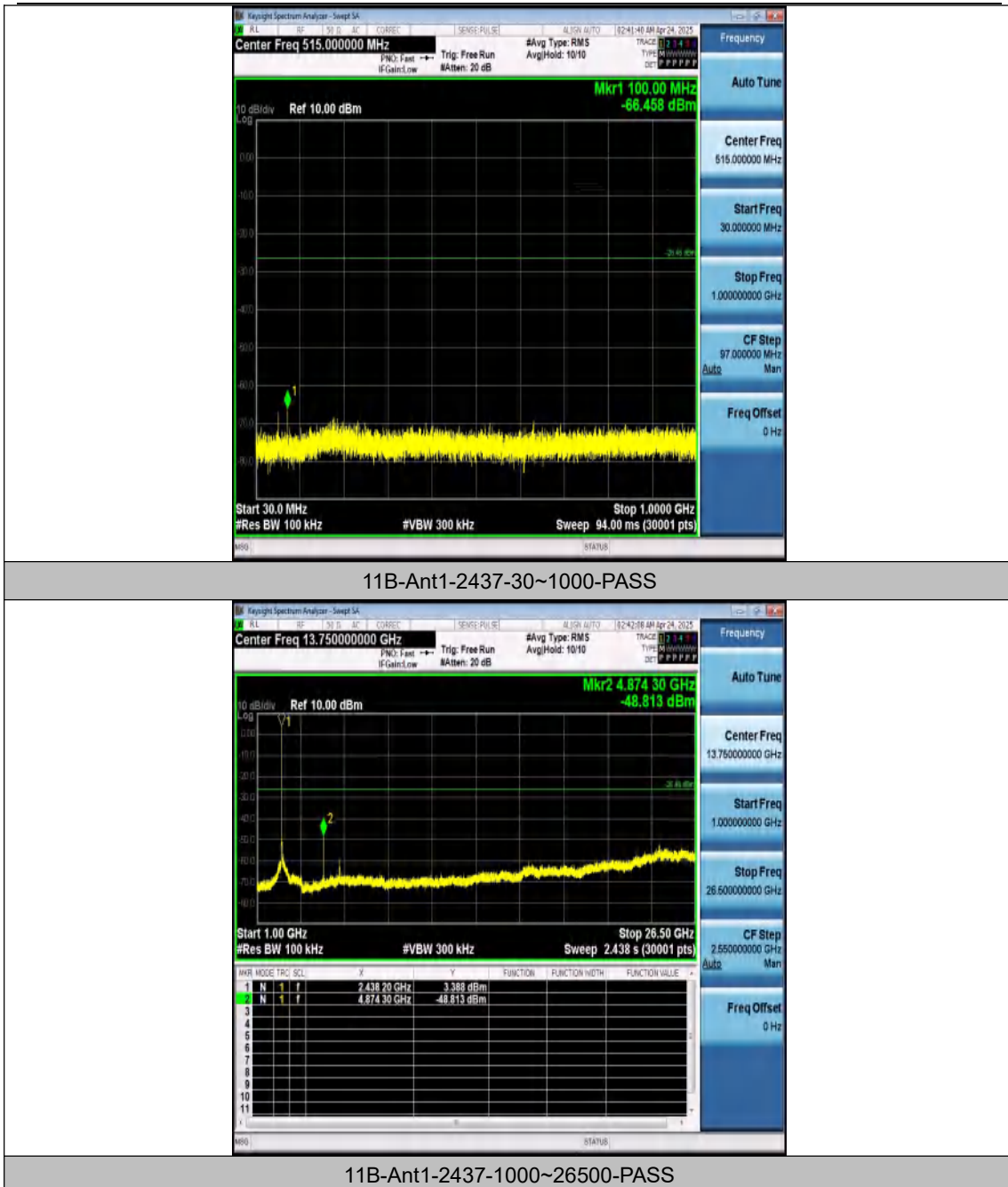


11B-Ant1-2437-0~Reference-PASS

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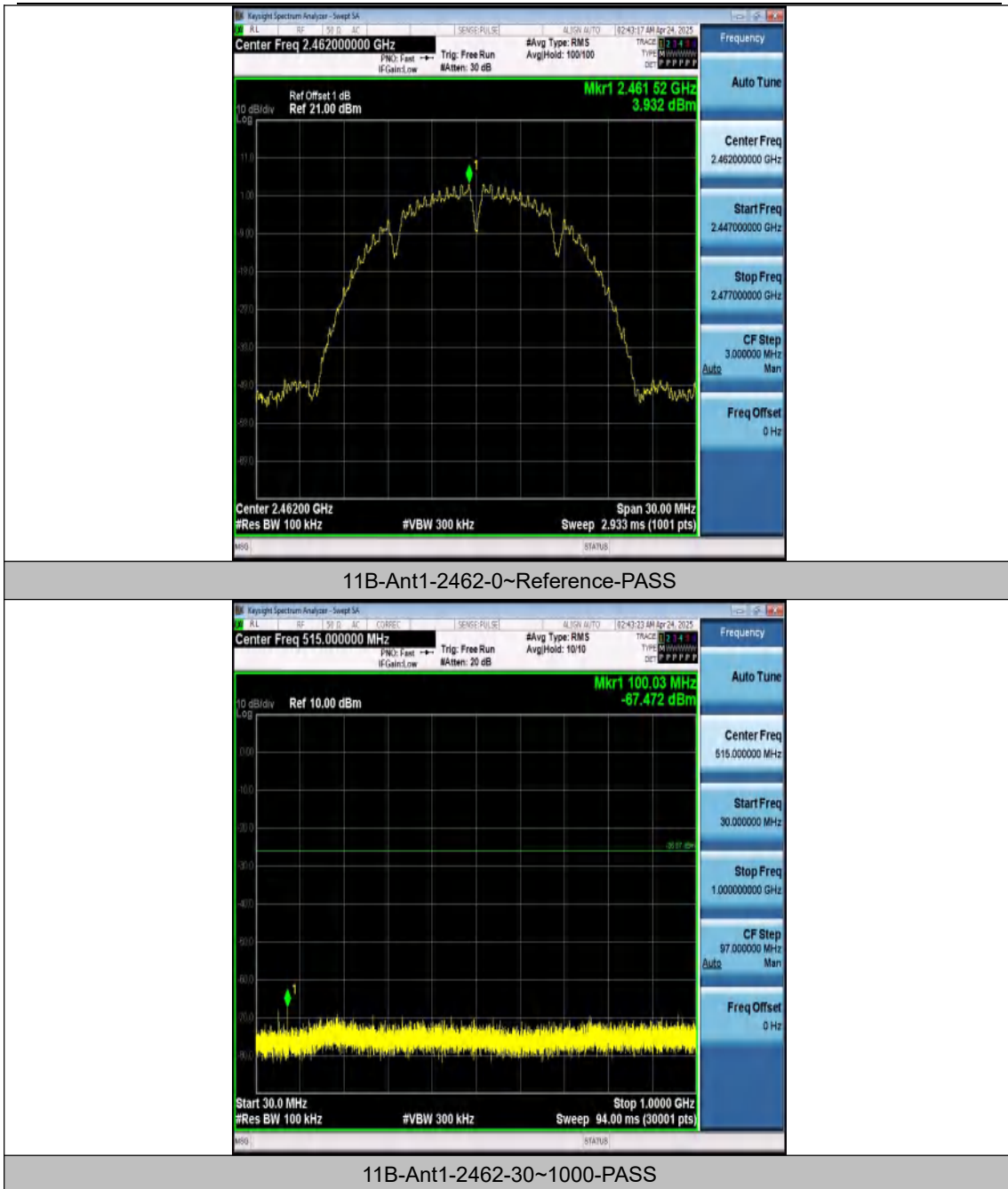
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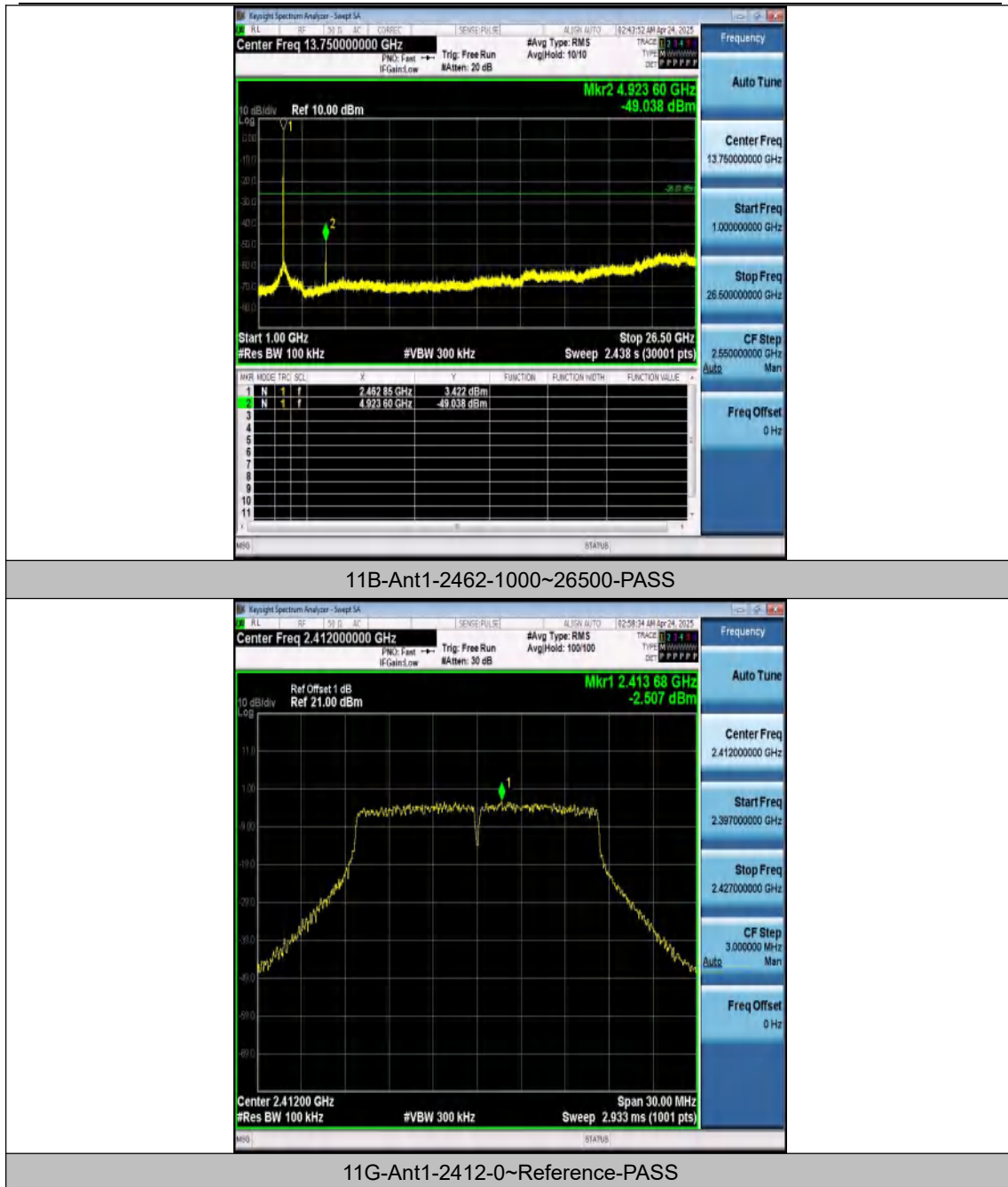
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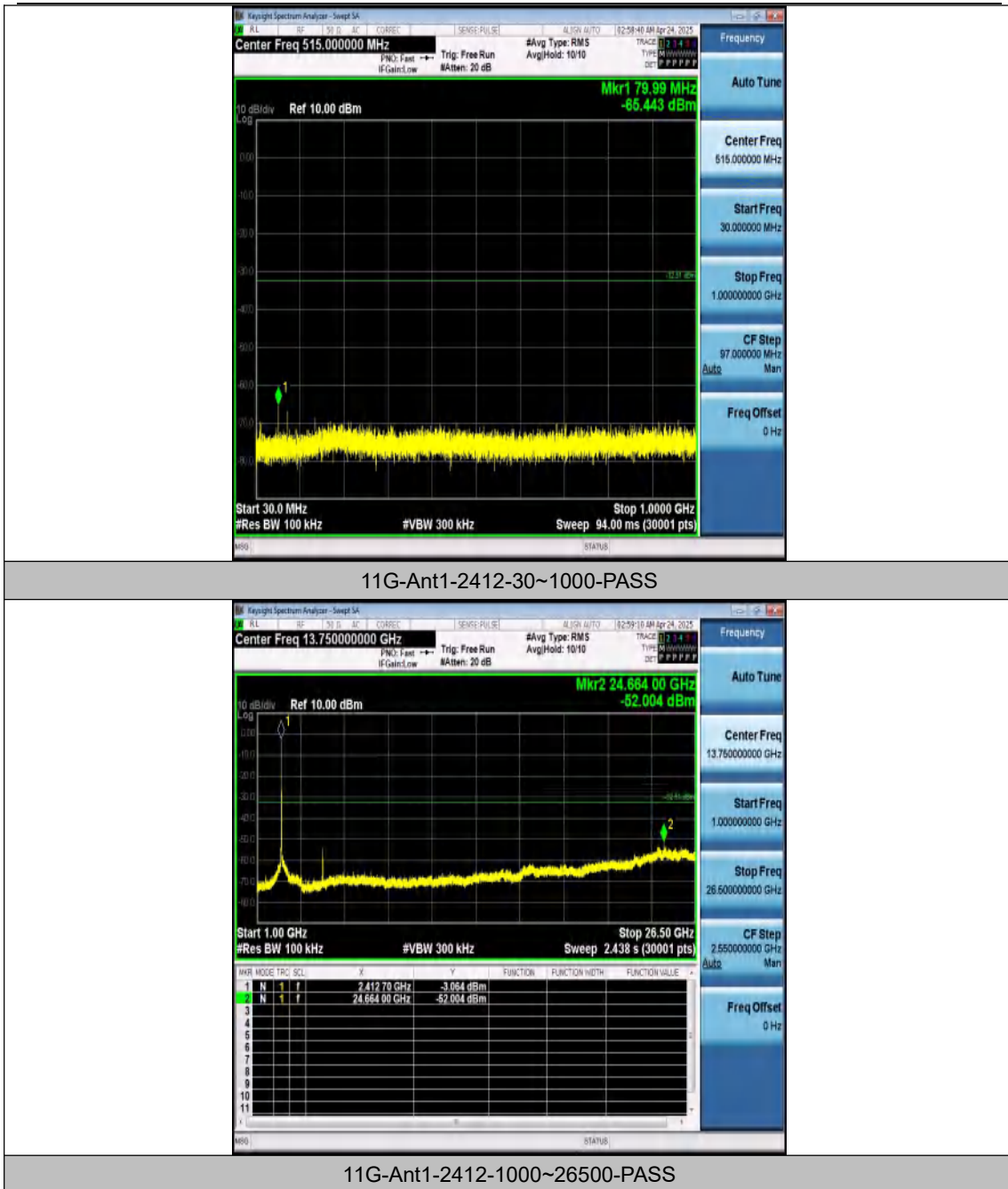
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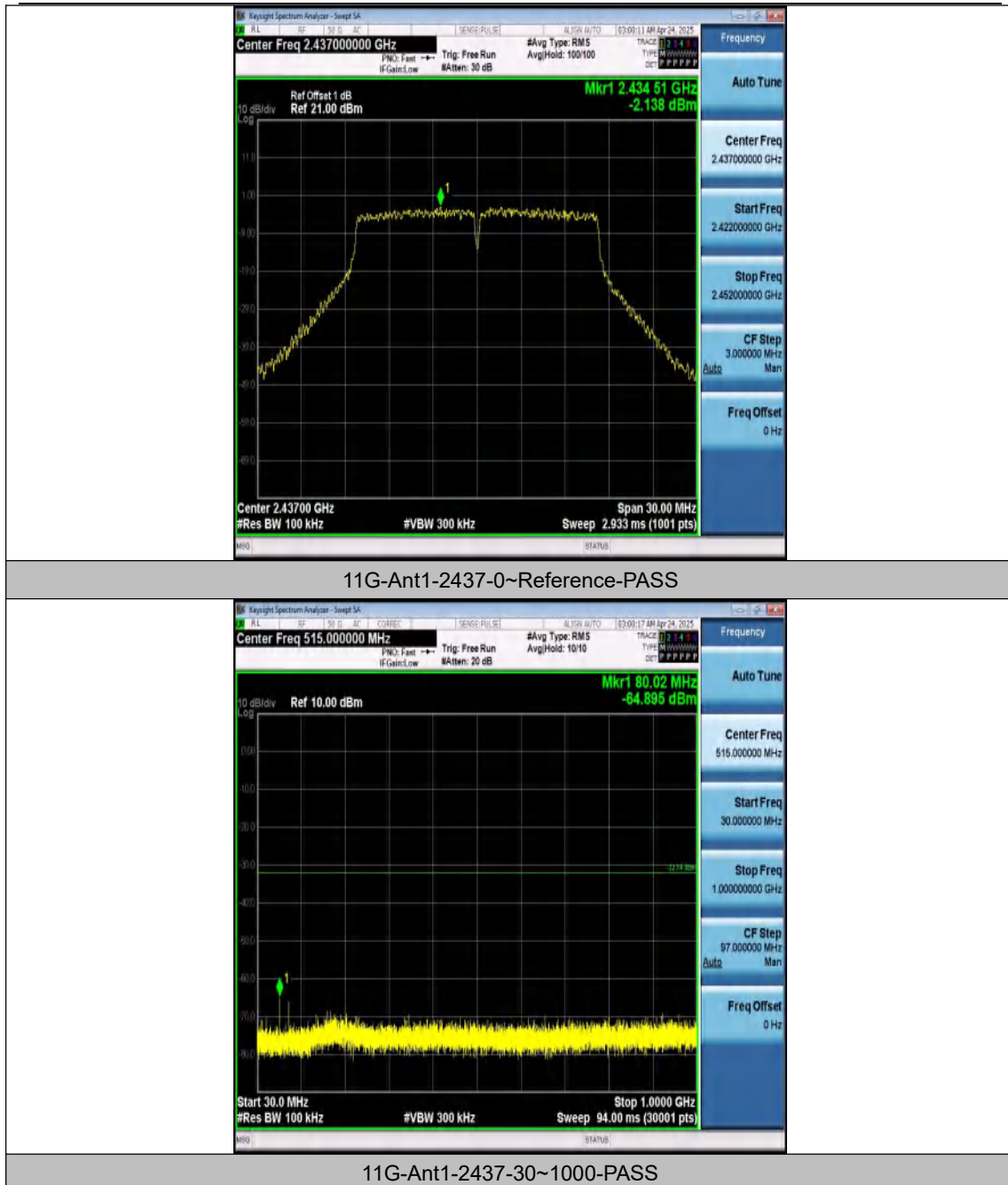


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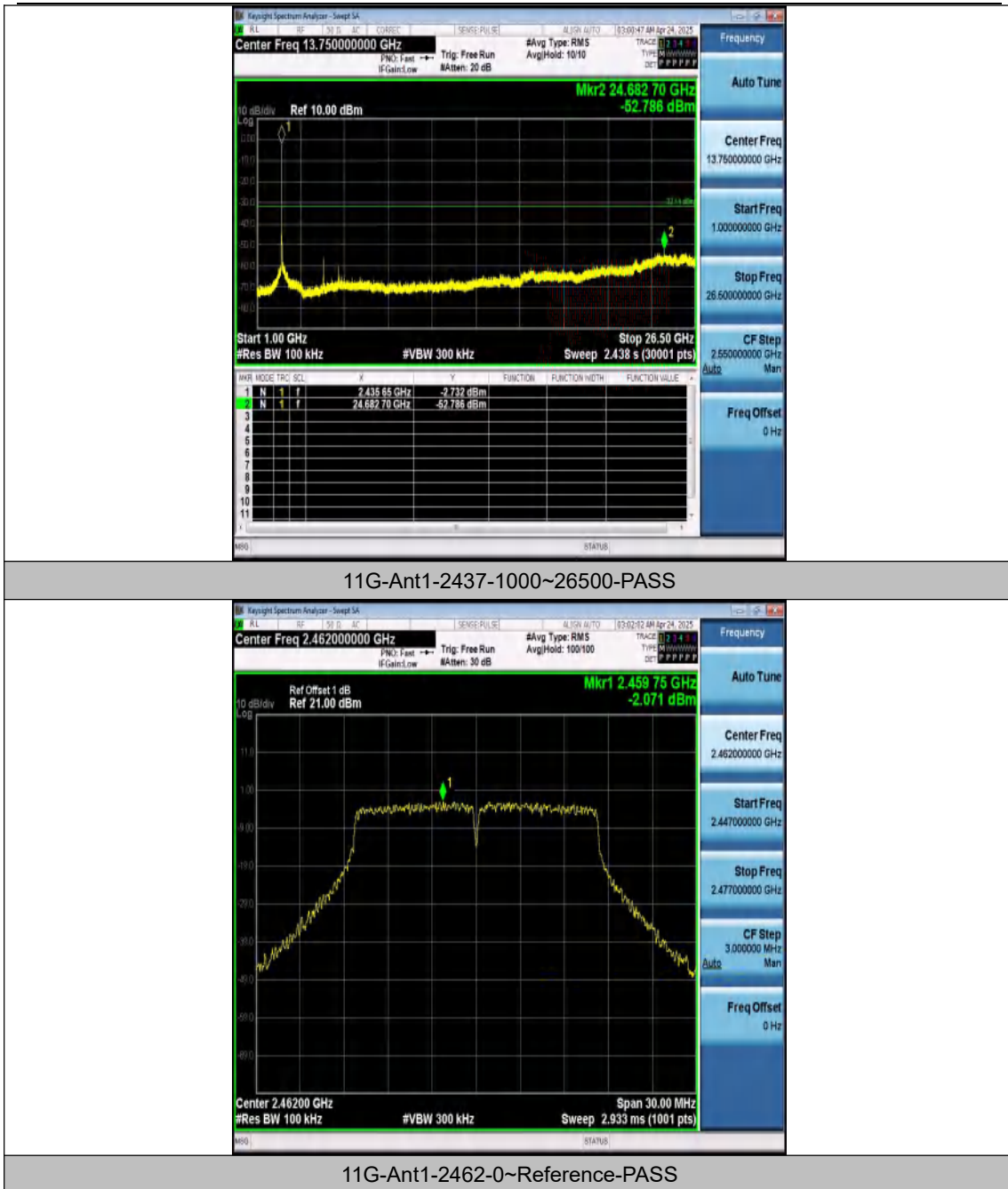




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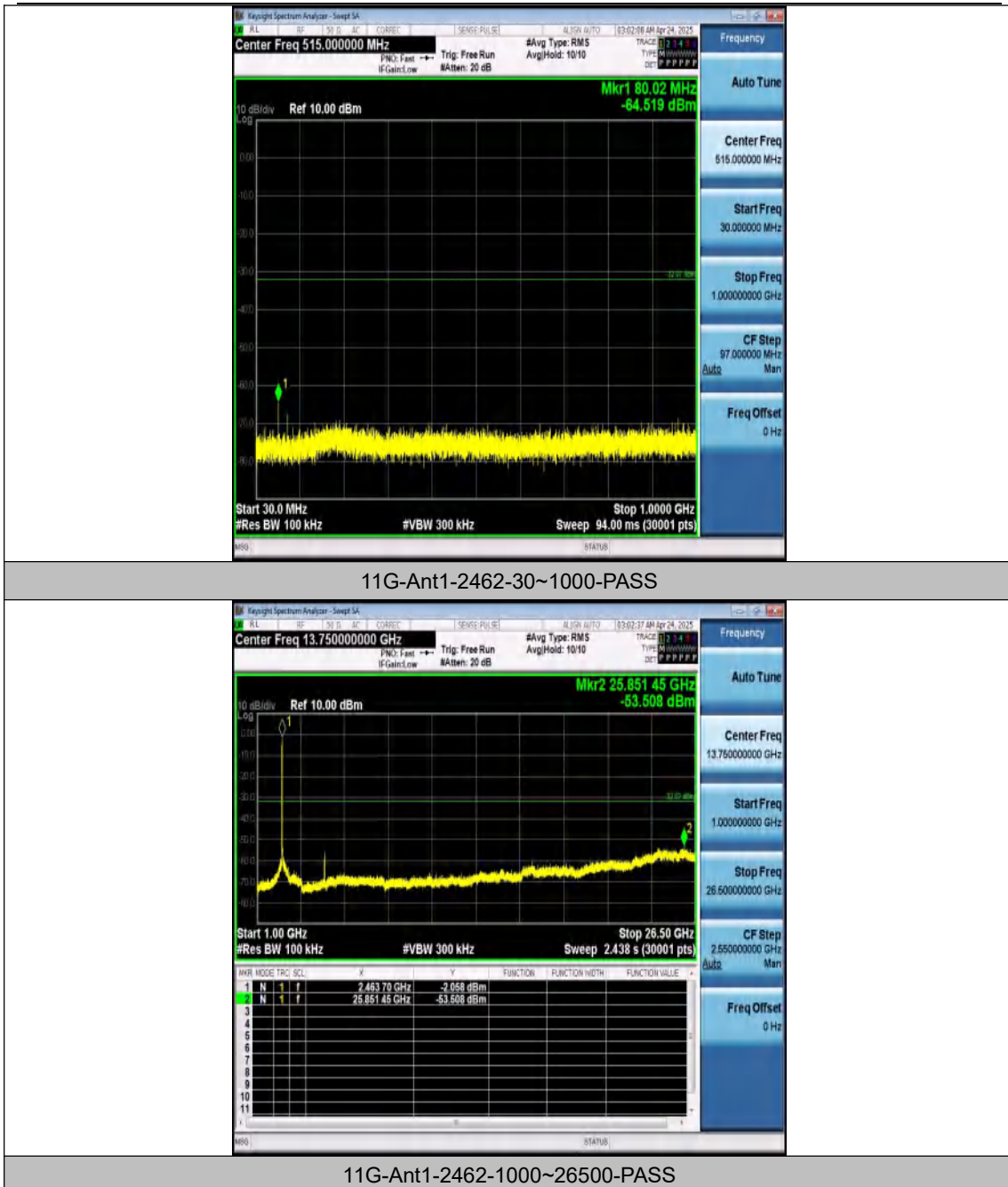
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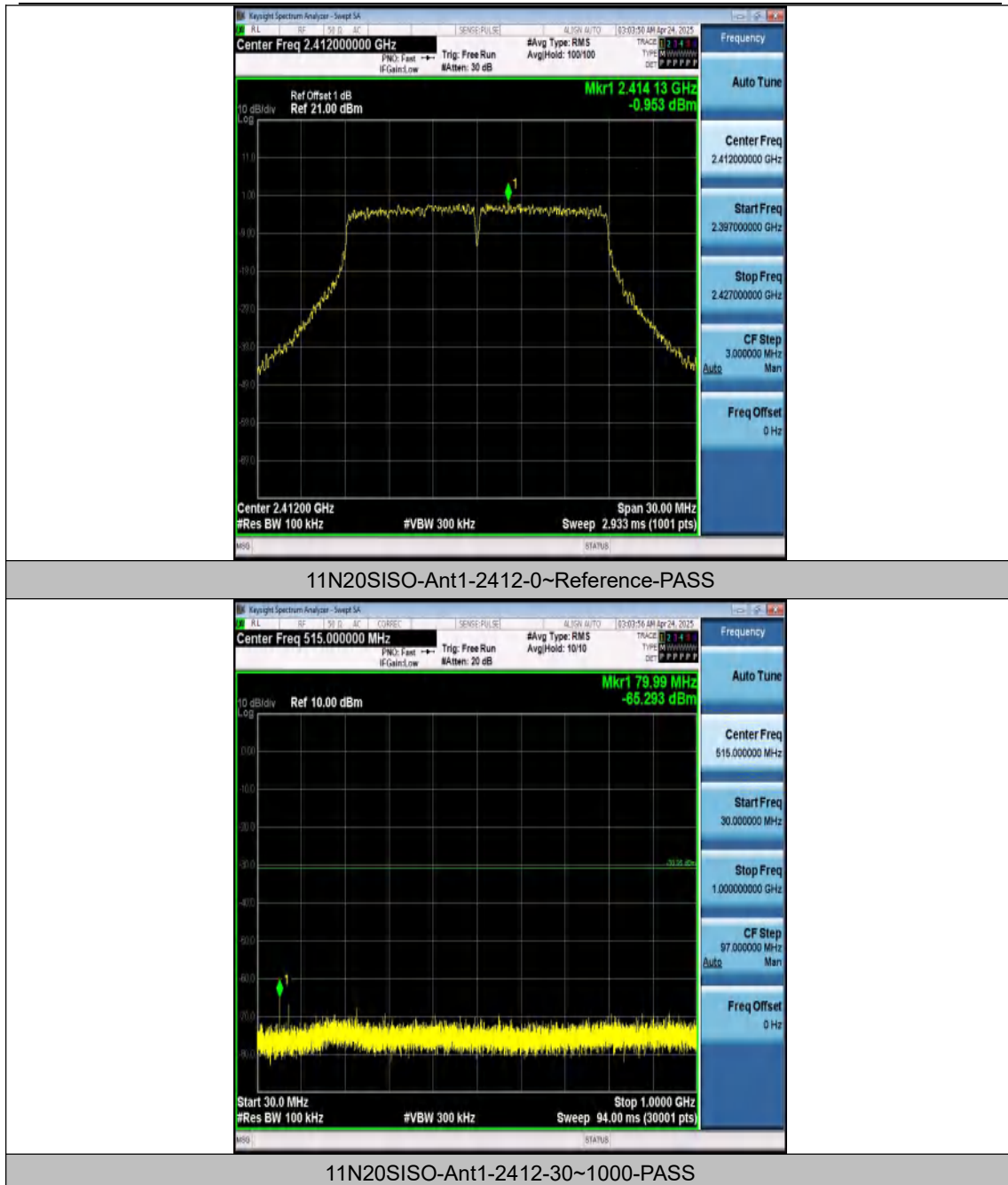
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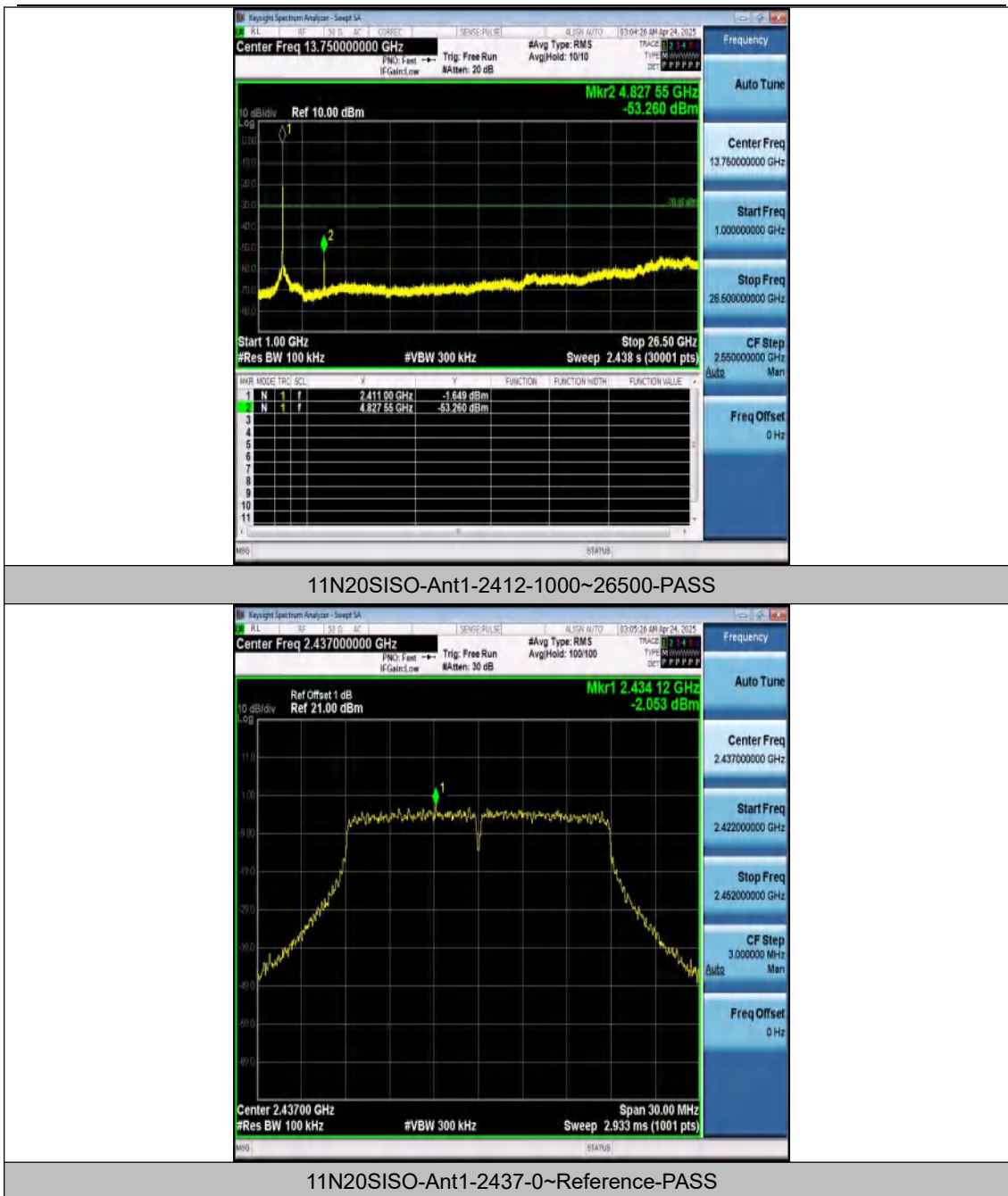
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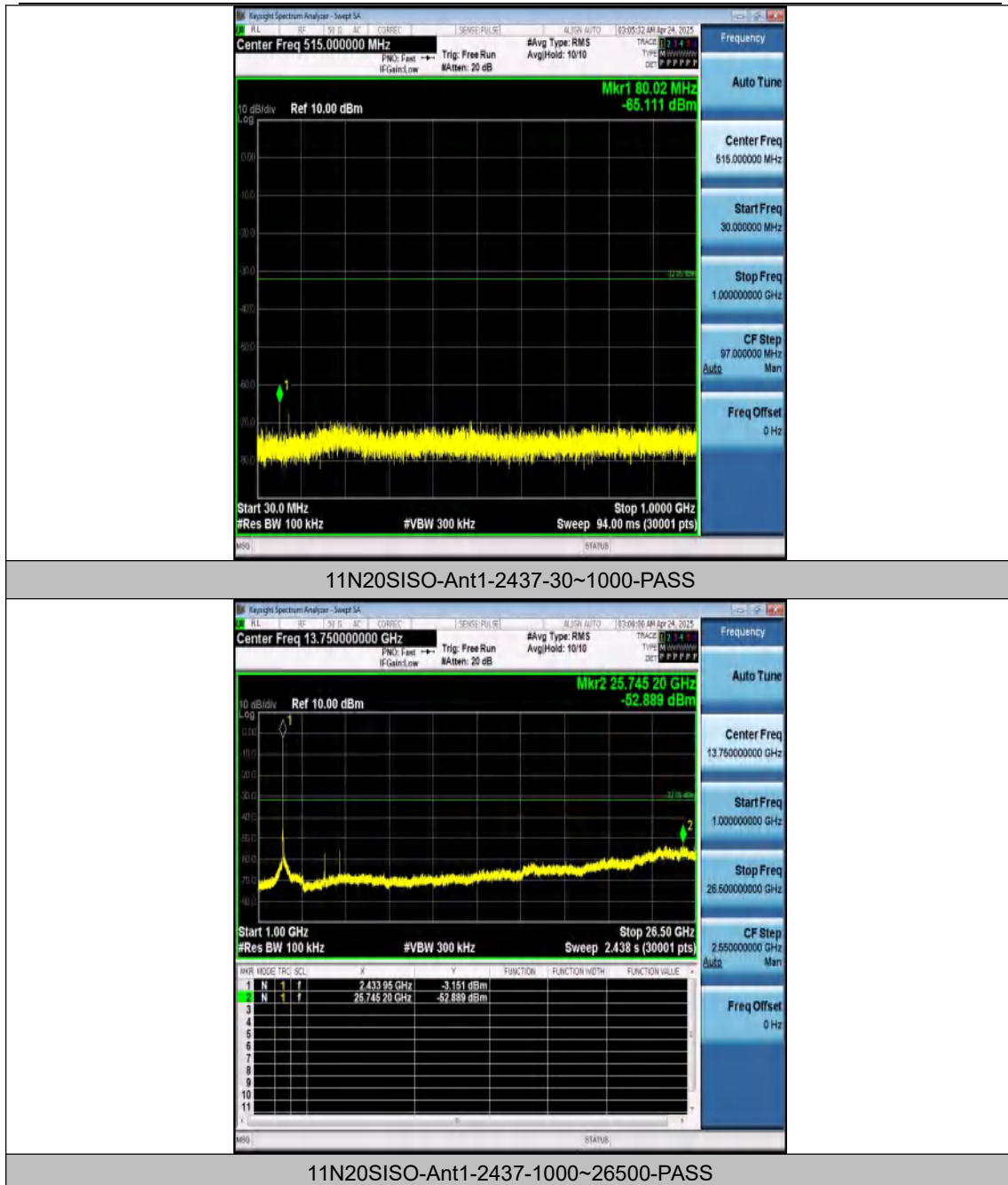
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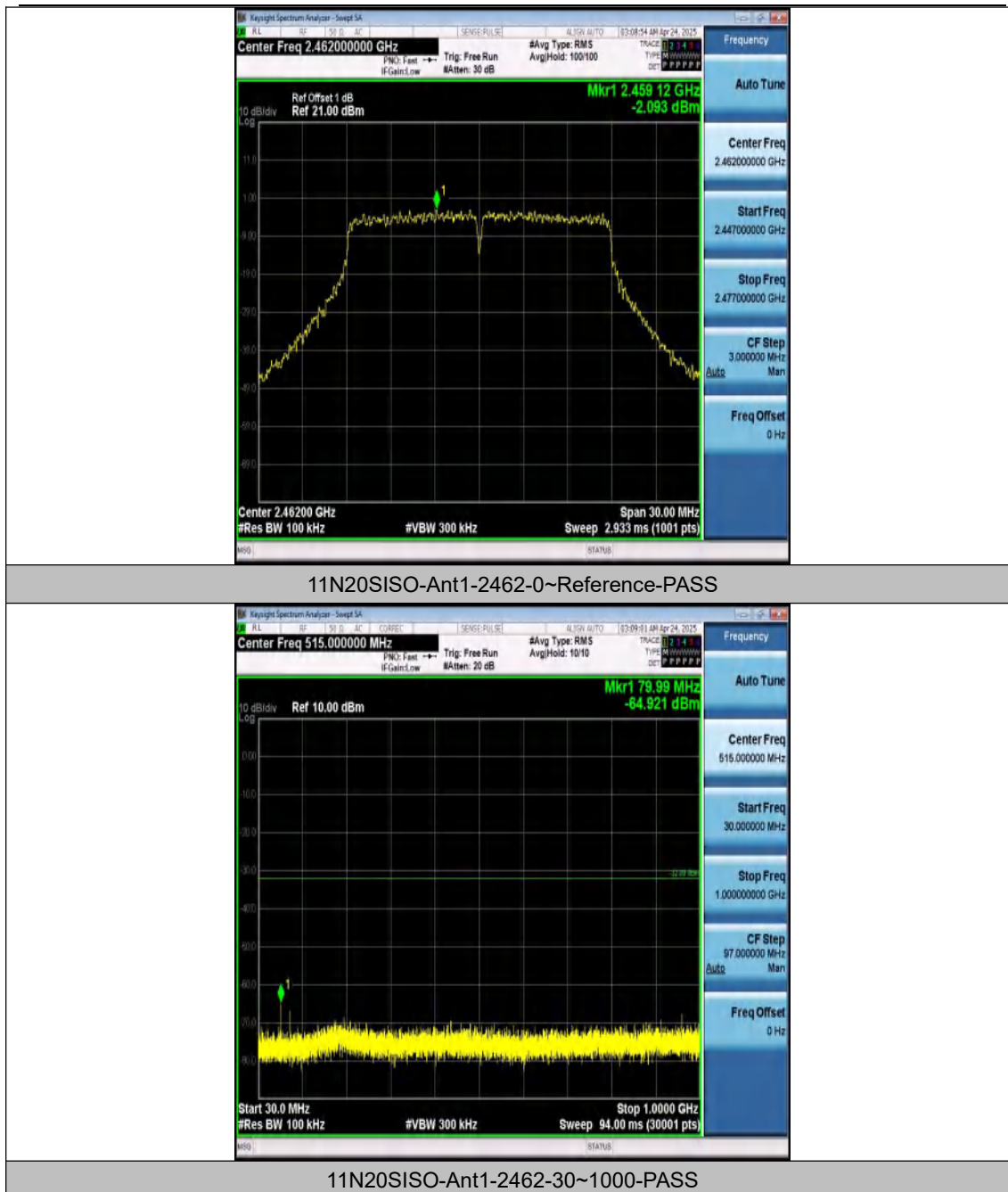
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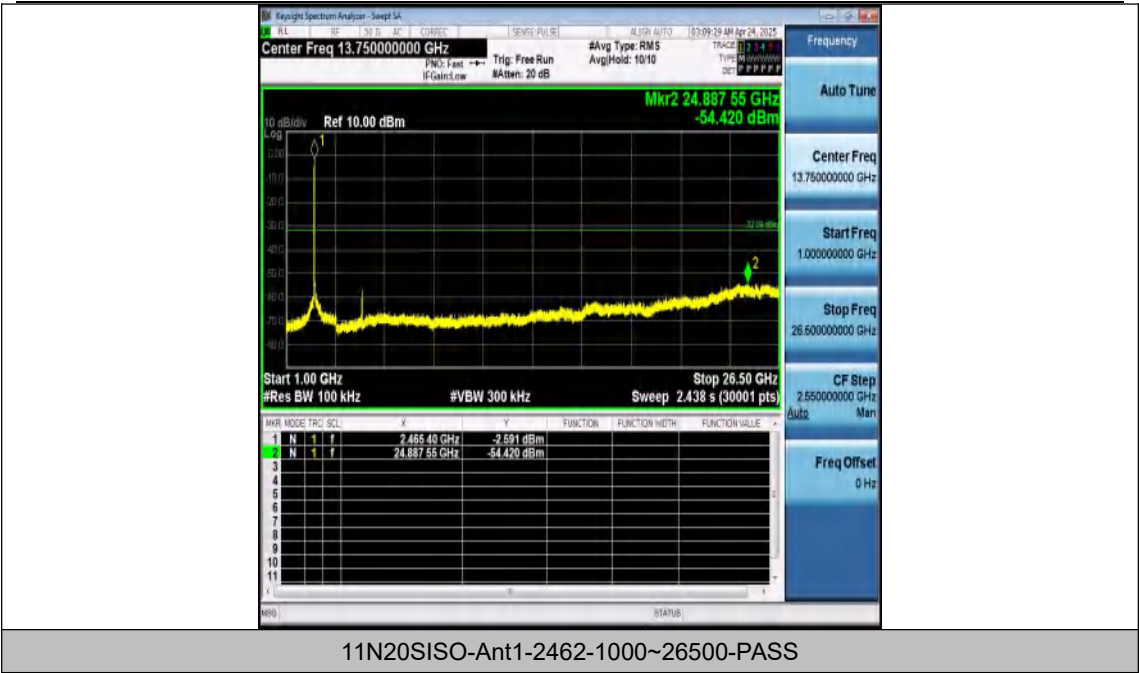
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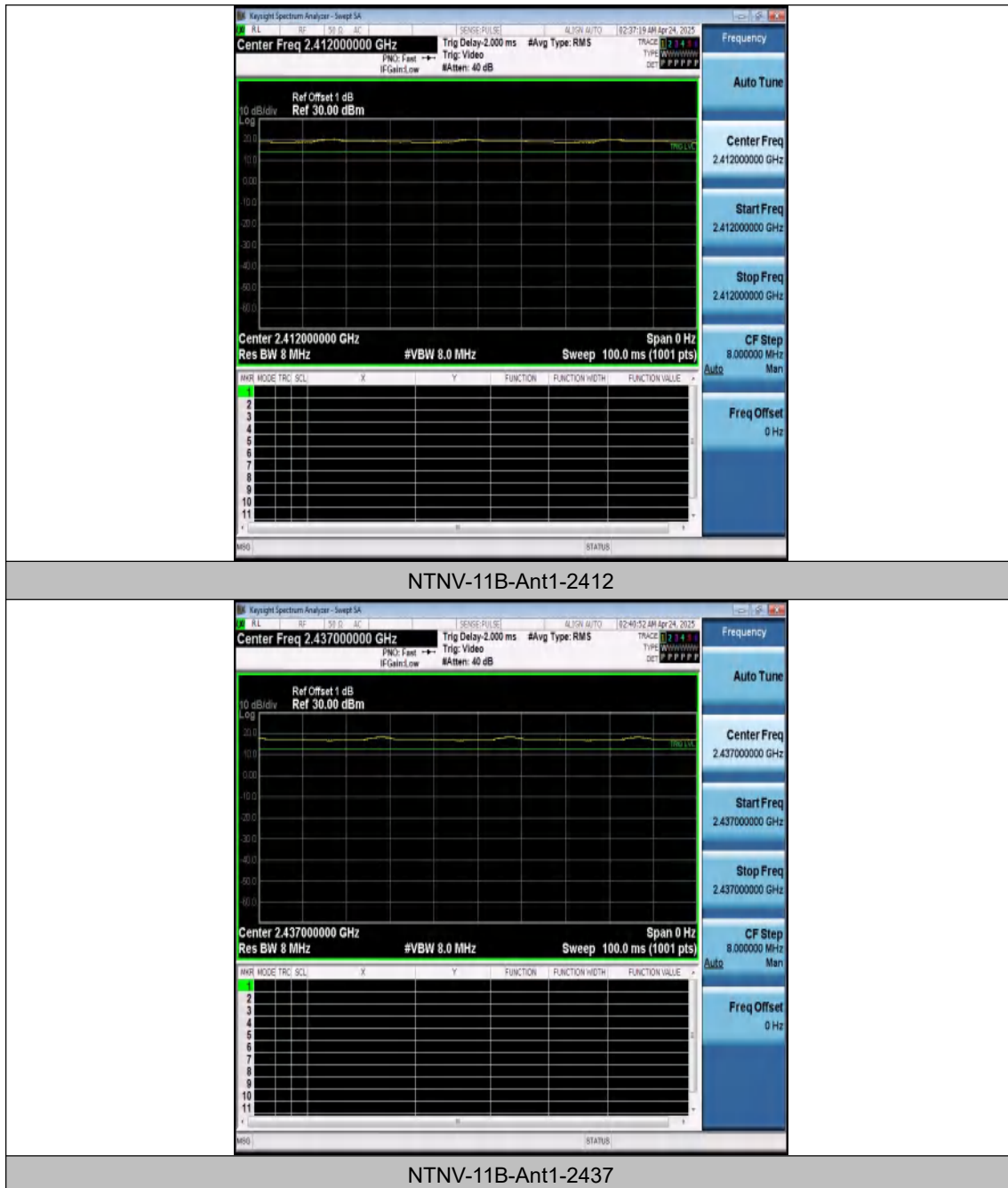
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Appendix G: Duty Cycle

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

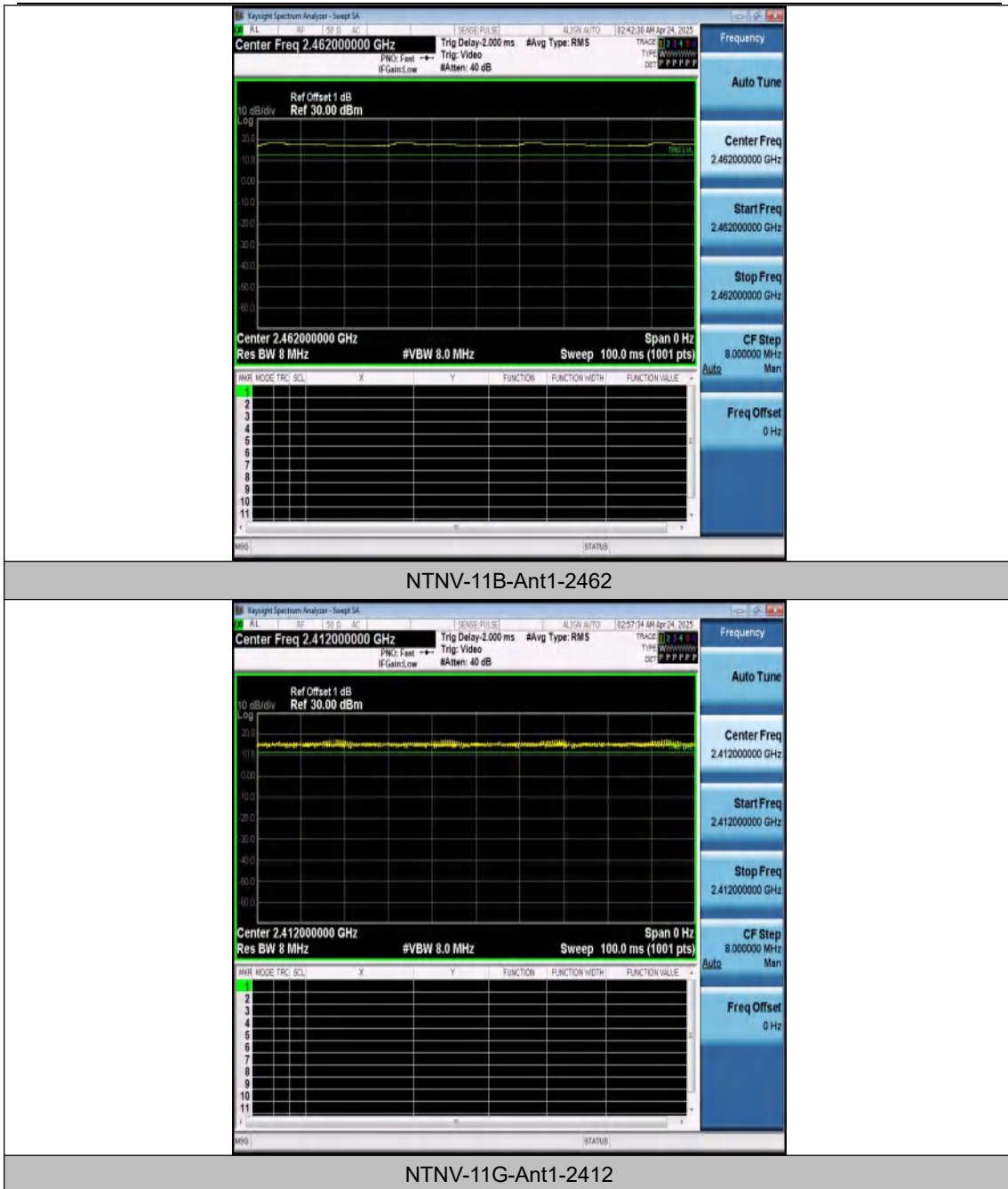
Test Graphs



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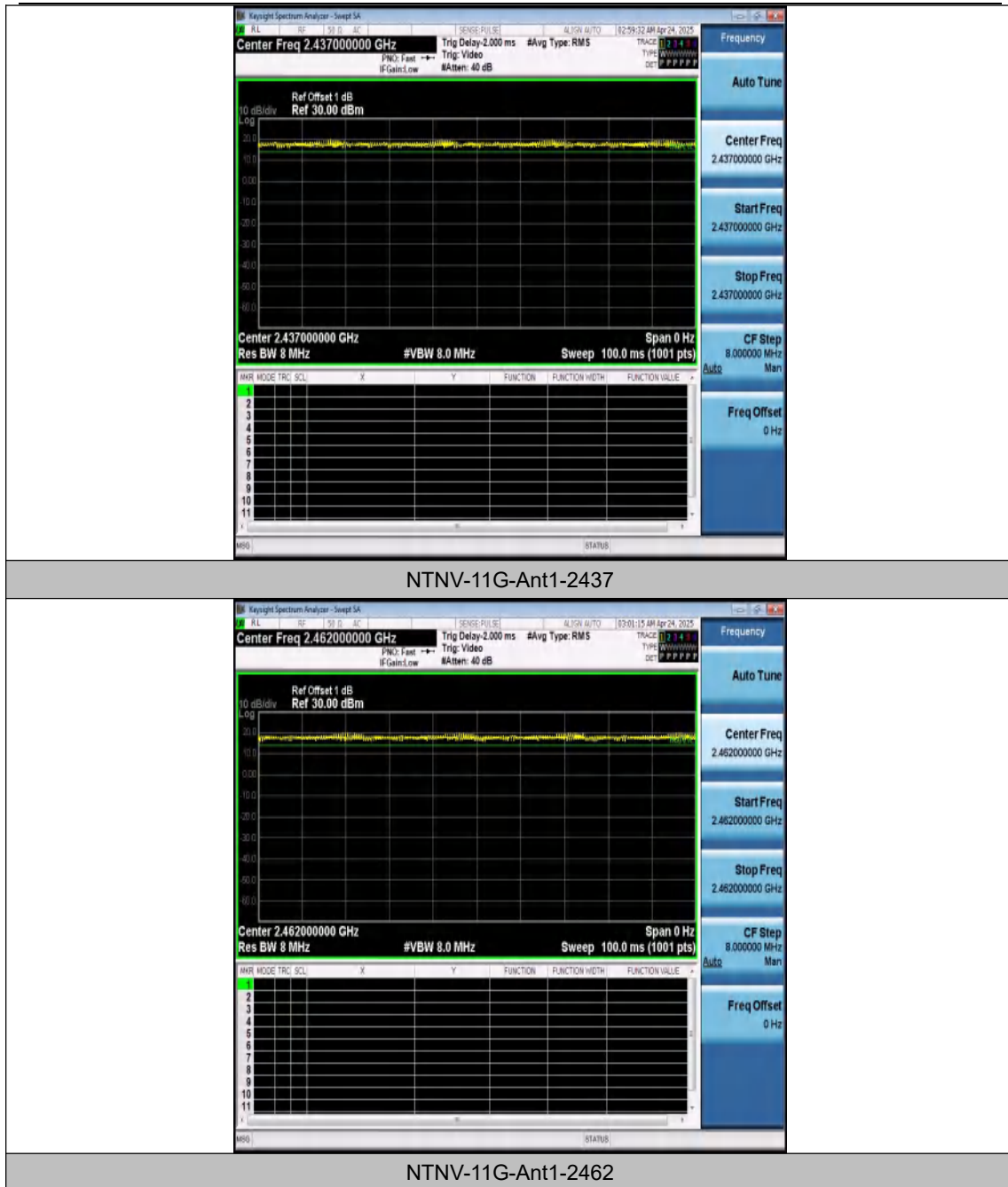
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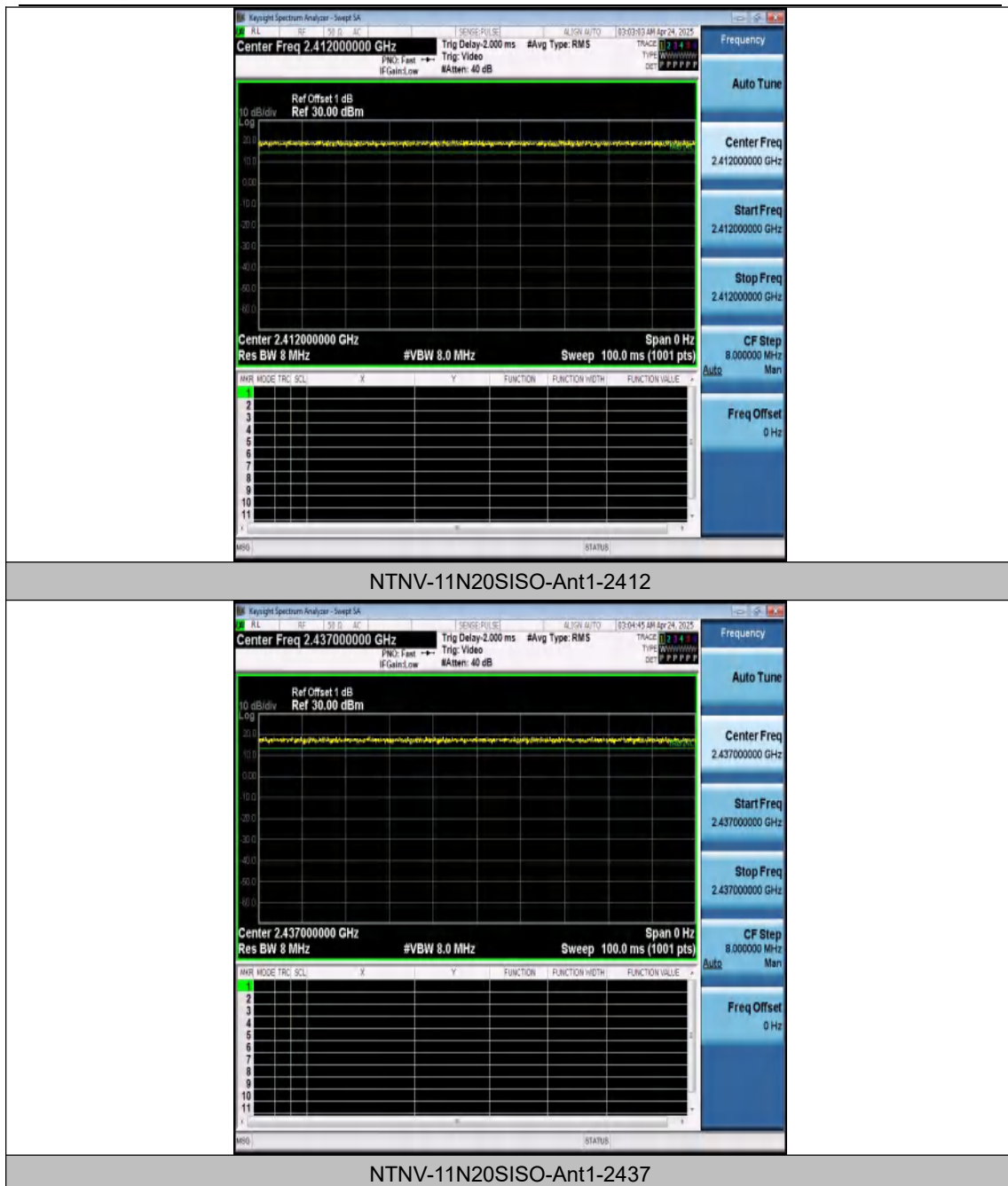
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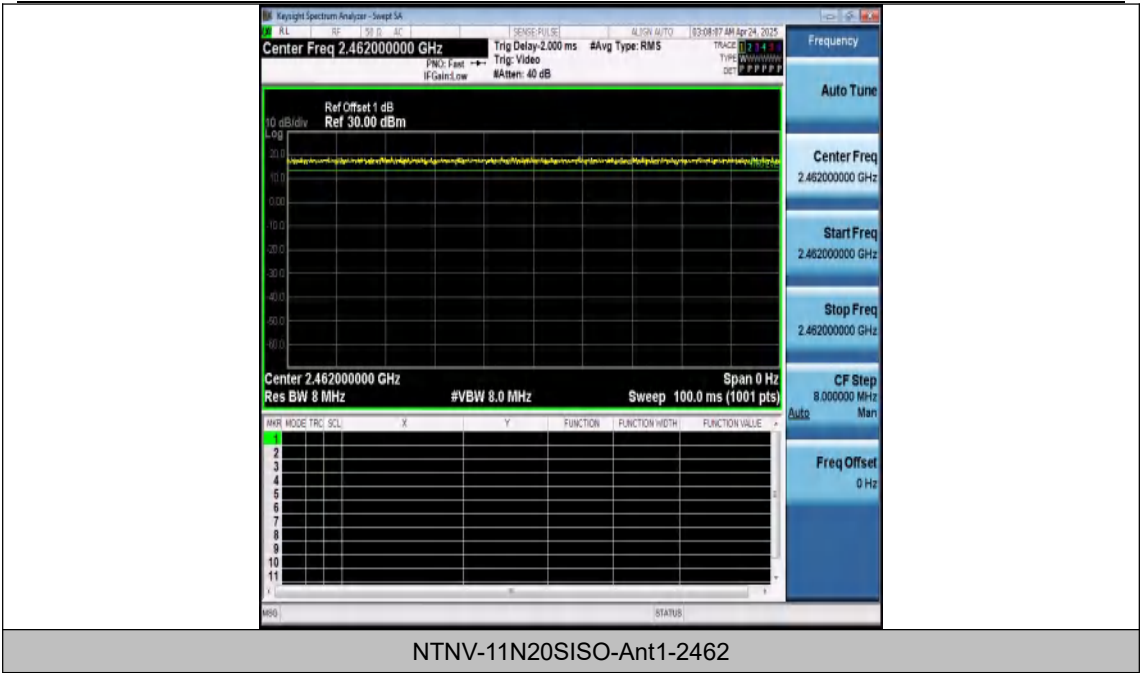
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---End---