

Appendix Test Data

Report No.:	1812C50369712503	Test Sample No.:	1-2-2
Start Test Date:	2025-08-11	Finish Test Date:	2025-08-12
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.1°C	Relative Humidity:	48%
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	10.200	2406.960	2417.160	0.5	PASS
11B	Ant1	2437	10.200	2431.920	2442.120	0.5	PASS
11B	Ant1	2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	16.120	2403.880	2420.000	0.5	PASS
11G	Ant1	2437	16.280	2428.840	2445.120	0.5	PASS
11G	Ant1	2462	16.280	2453.960	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.400	2403.280	2420.680	0.5	PASS
11N20SISO	Ant1	2437	17.400	2428.320	2445.720	0.5	PASS
11N20SISO	Ant1	2462	17.400	2453.280	2470.680	0.5	PASS

Test Graphs

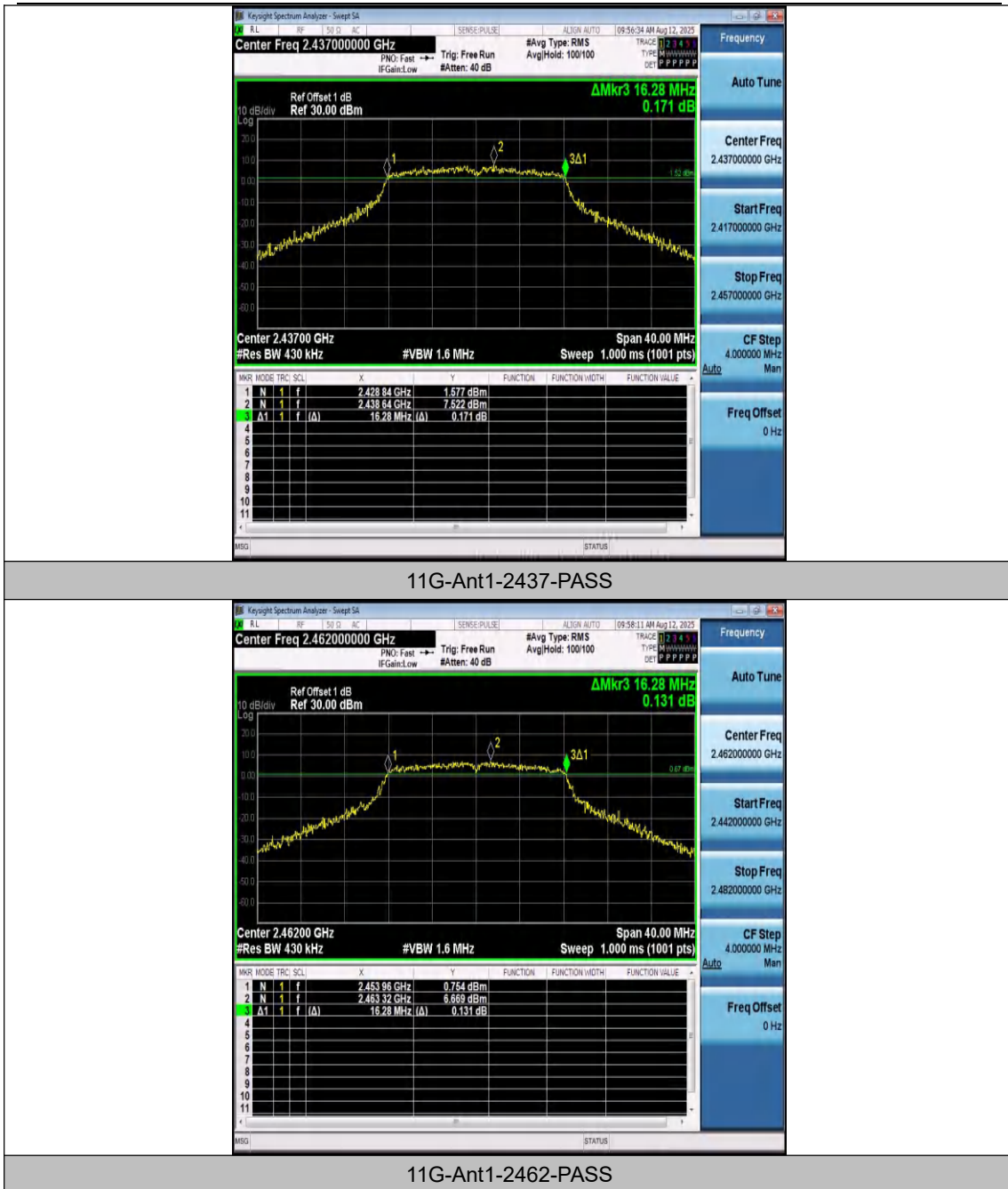


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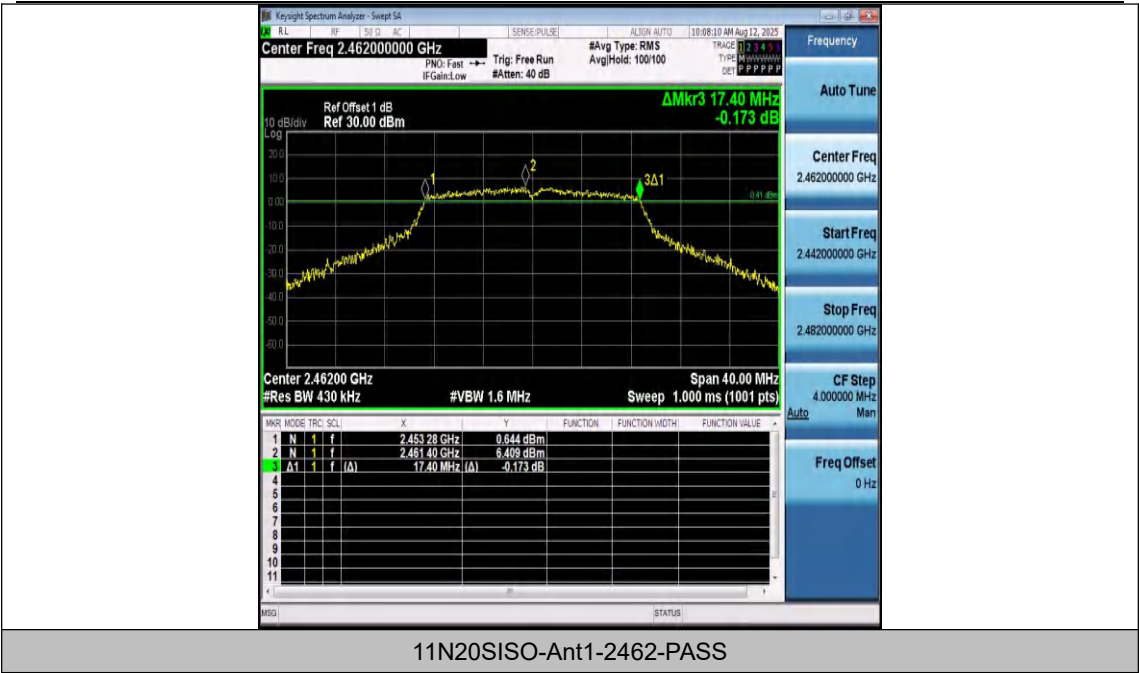
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11N20SISO-Ant1-2462-PASS

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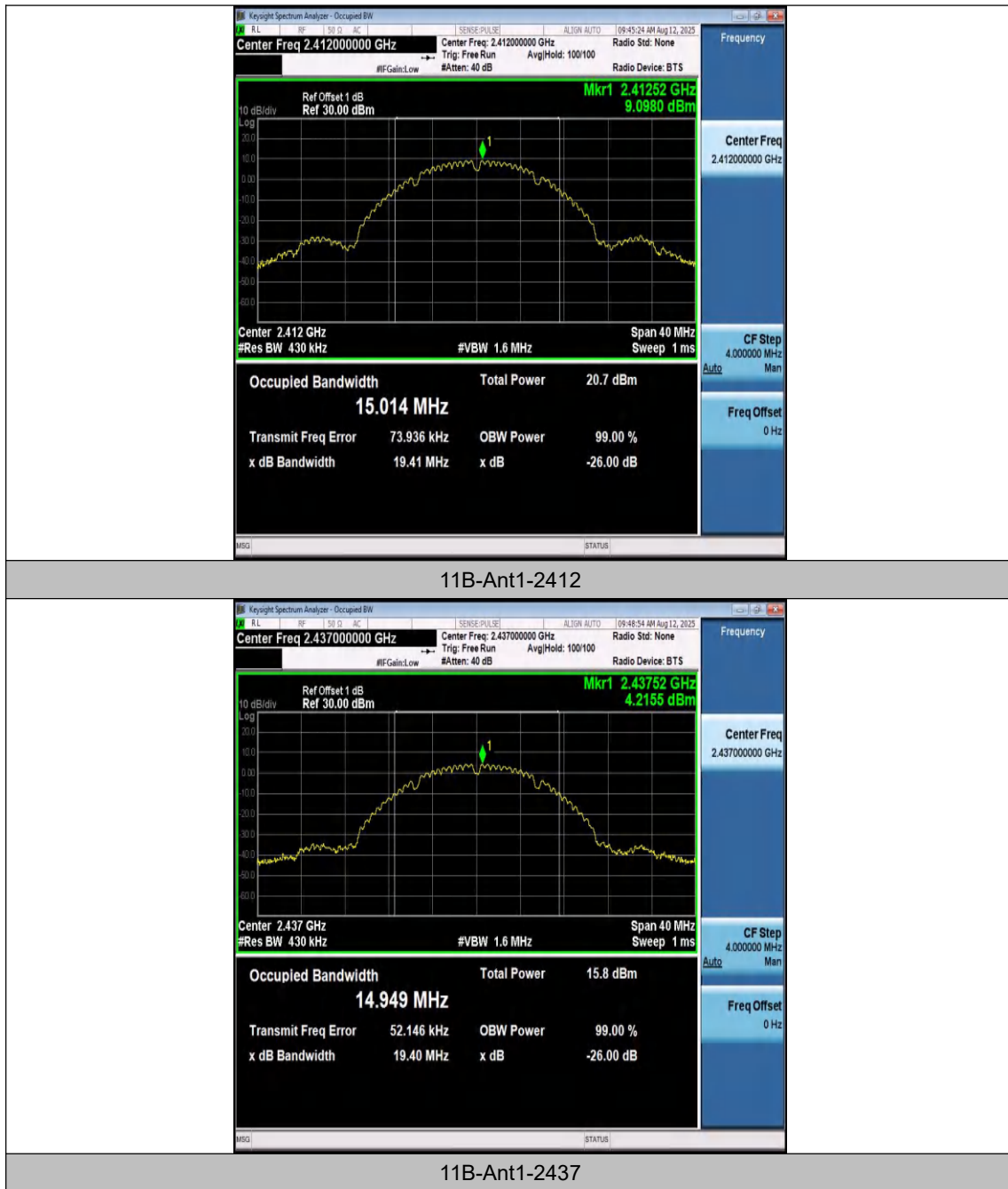
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.014	2404.5669	2419.5809	---	---
11B	Ant1	2437	14.949	2429.5777	2444.5267	---	---
11B	Ant1	2462	14.939	2454.5526	2469.4916	---	---
11G	Ant1	2412	17.216	2403.4061	2420.6221	---	---
11G	Ant1	2437	17.210	2428.3901	2445.6001	---	---
11G	Ant1	2462	17.215	2453.3795	2470.5945	---	---
11N20SISO	Ant1	2412	18.347	2402.8578	2421.2048	---	---
11N20SISO	Ant1	2437	18.332	2427.8331	2446.1651	---	---
11N20SISO	Ant1	2462	18.327	2452.8129	2471.1399	---	---

Test Graphs



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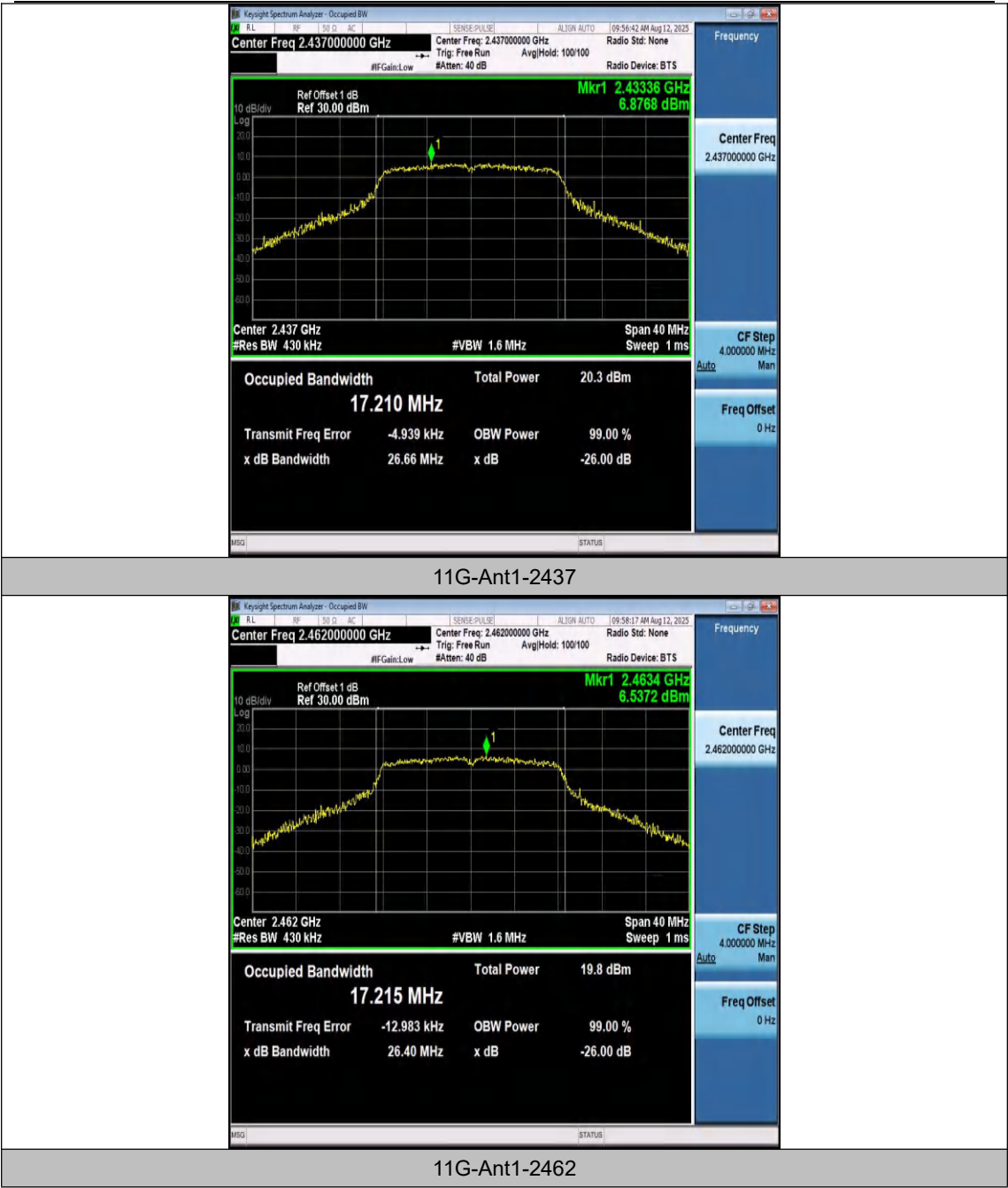
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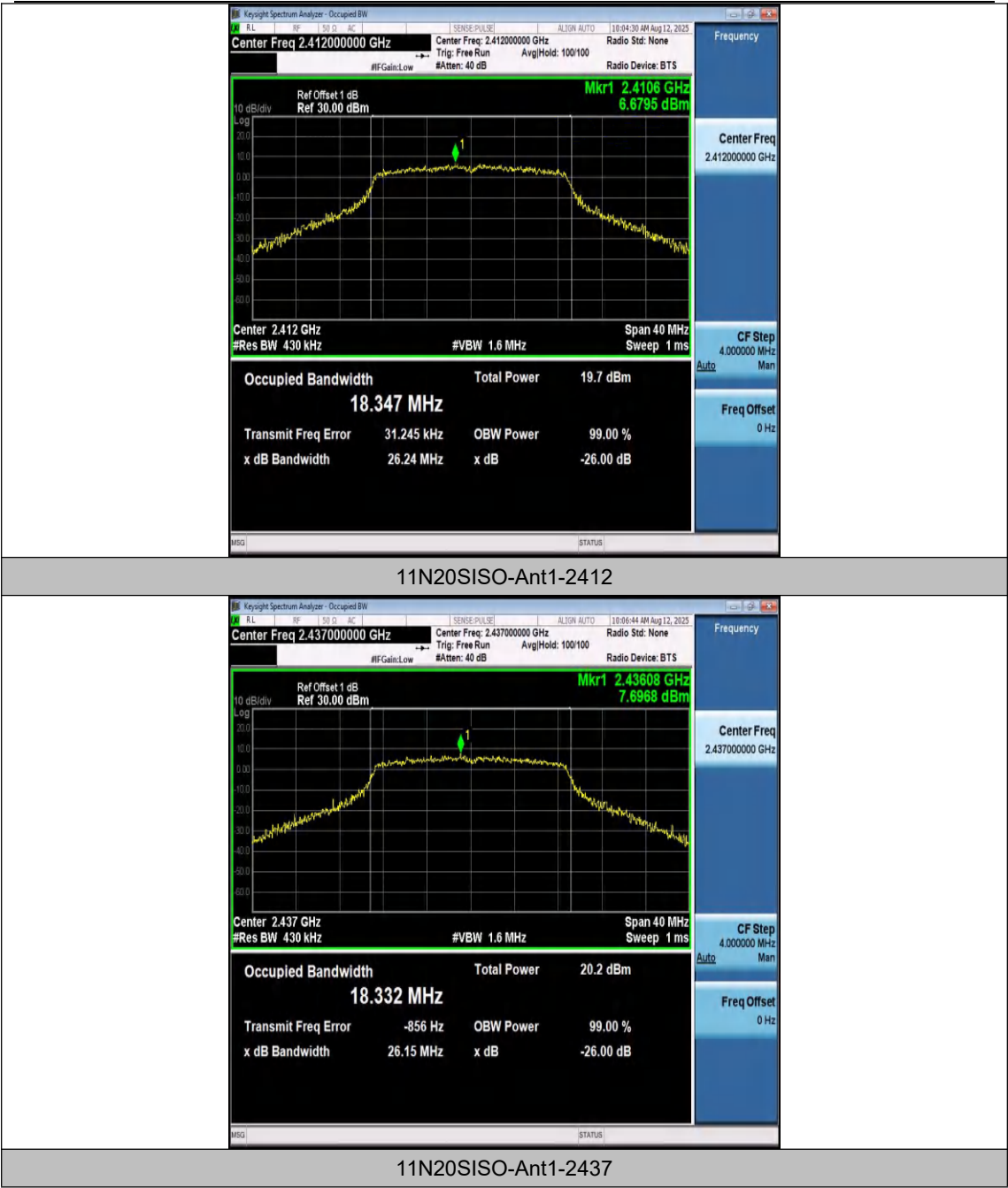


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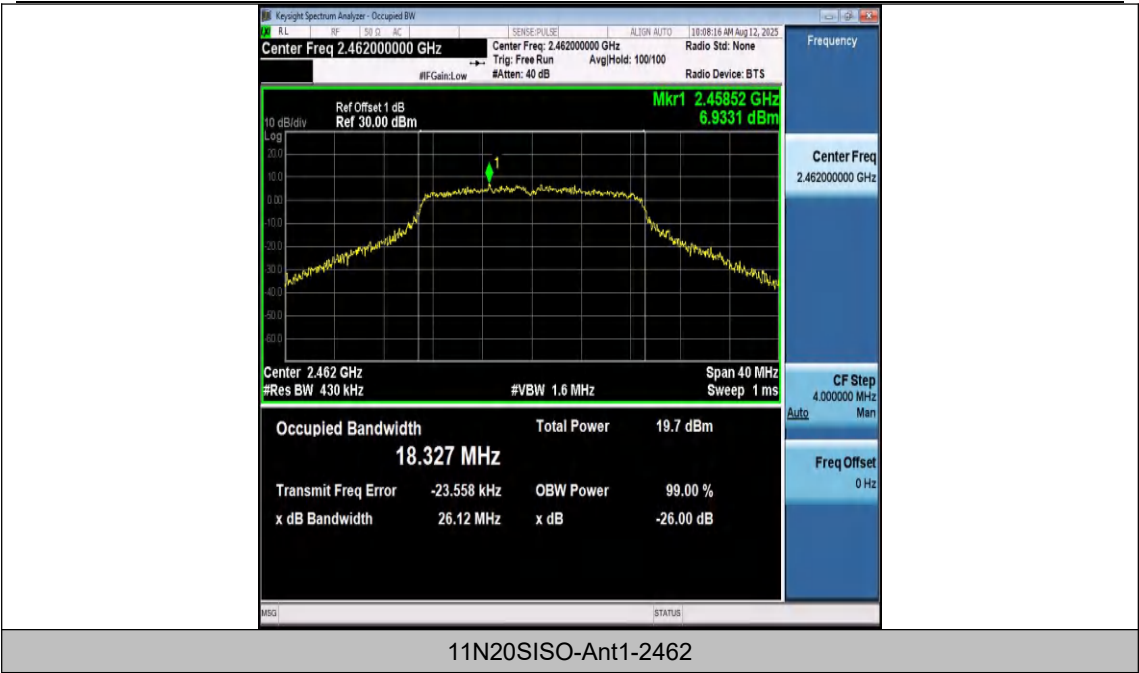
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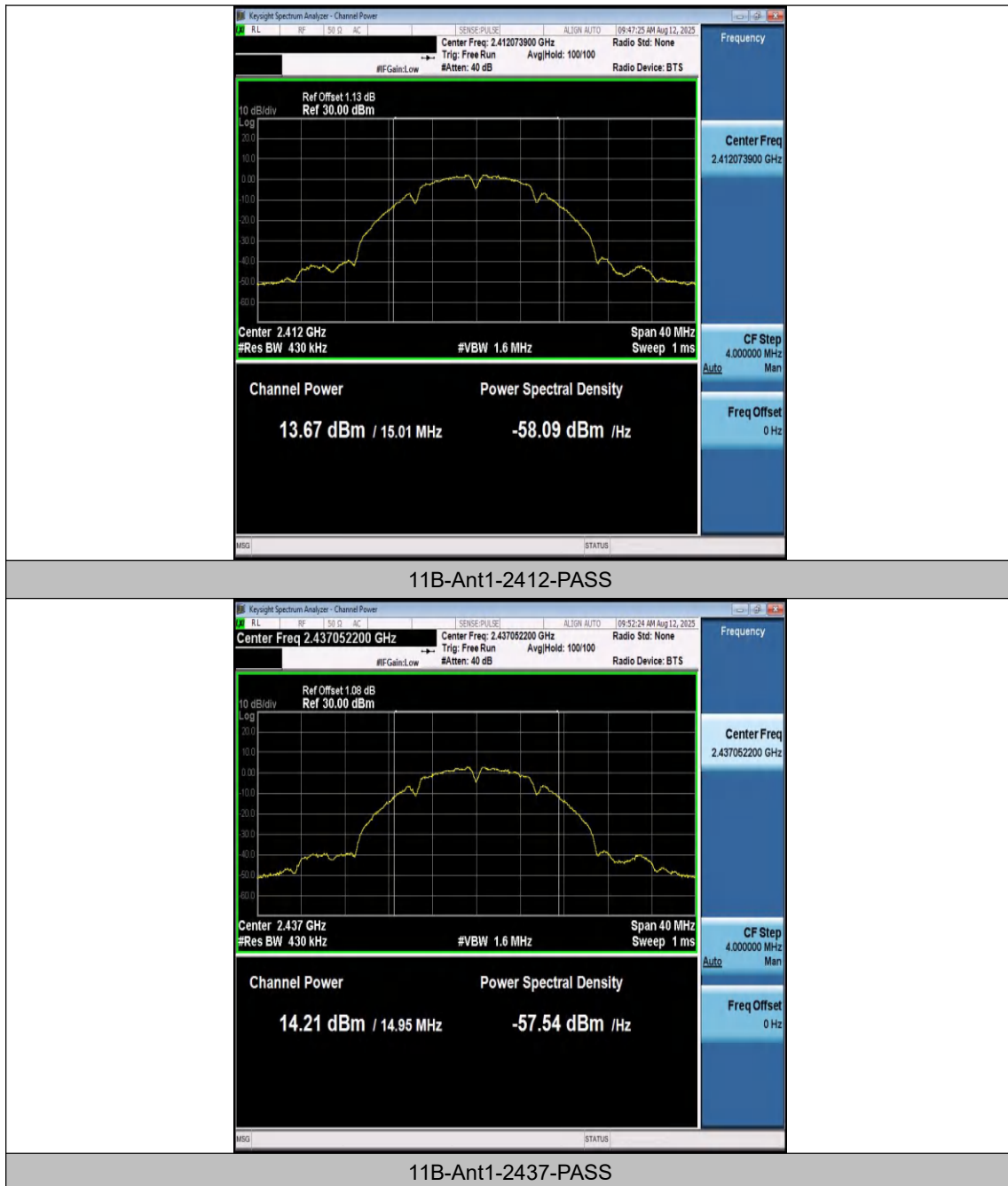
Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.54	97.13	0.13	13.67	≤30.00	PASS
11B	Ant1	2437	14.13	98.07	0.08	14.21	≤30.00	PASS
11B	Ant1	2462	13.08	96.67	0.15	13.23	≤30.00	PASS
11G	Ant1	2412	13.29	91.86	0.37	13.66	≤30.00	PASS
11G	Ant1	2437	13.83	90.99	0.41	14.24	≤30.00	PASS
11G	Ant1	2462	13.47	93.52	0.29	13.76	≤30.00	PASS
11N20SISO	Ant1	2412	13.09	92.68	0.33	13.42	≤30.00	PASS
11N20SISO	Ant1	2437	13.63	90.91	0.41	14.04	≤30.00	PASS
11N20SISO	Ant1	2462	13.45	94.06	0.27	13.72	≤30.00	PASS

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

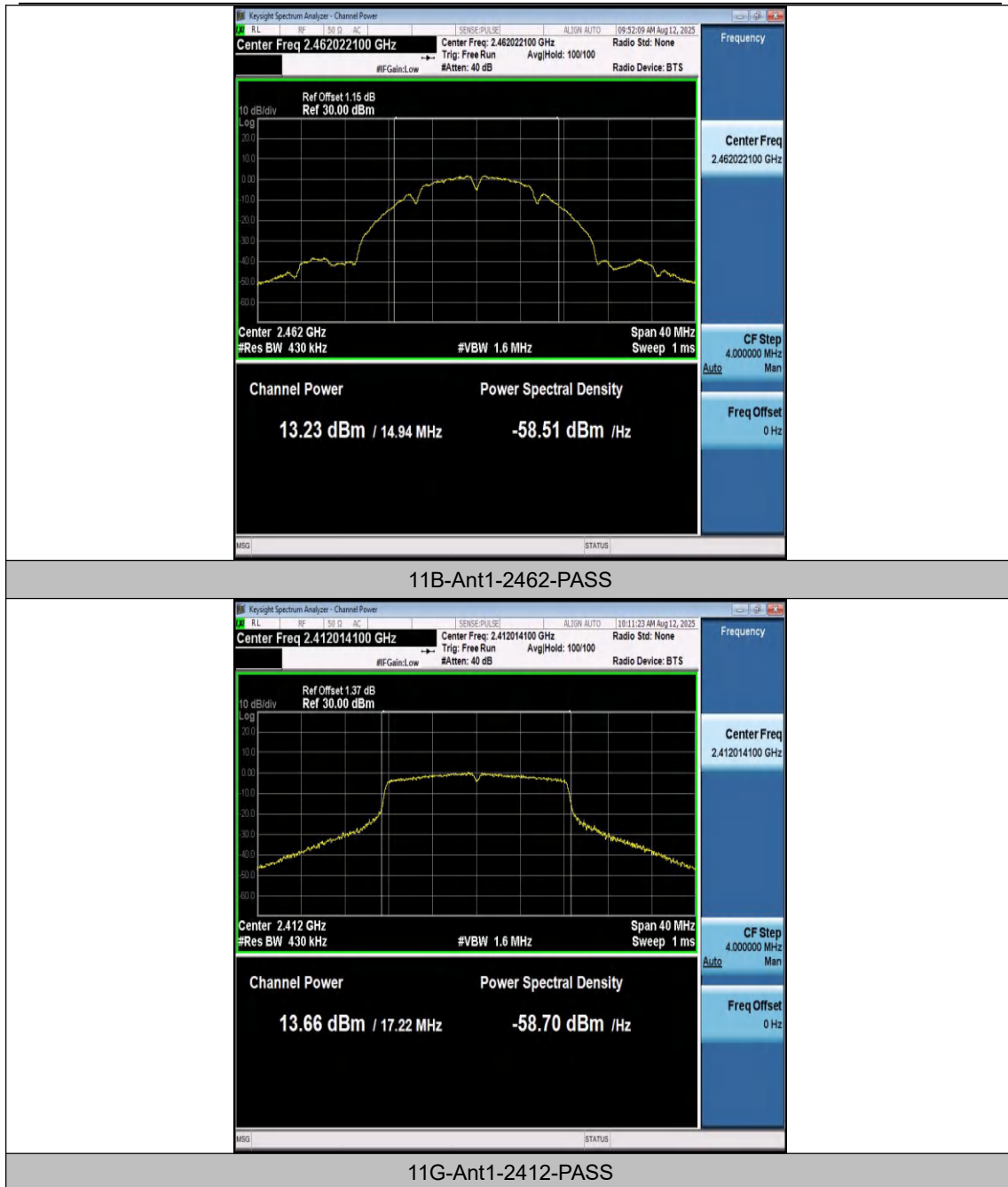
Test Graphs Average



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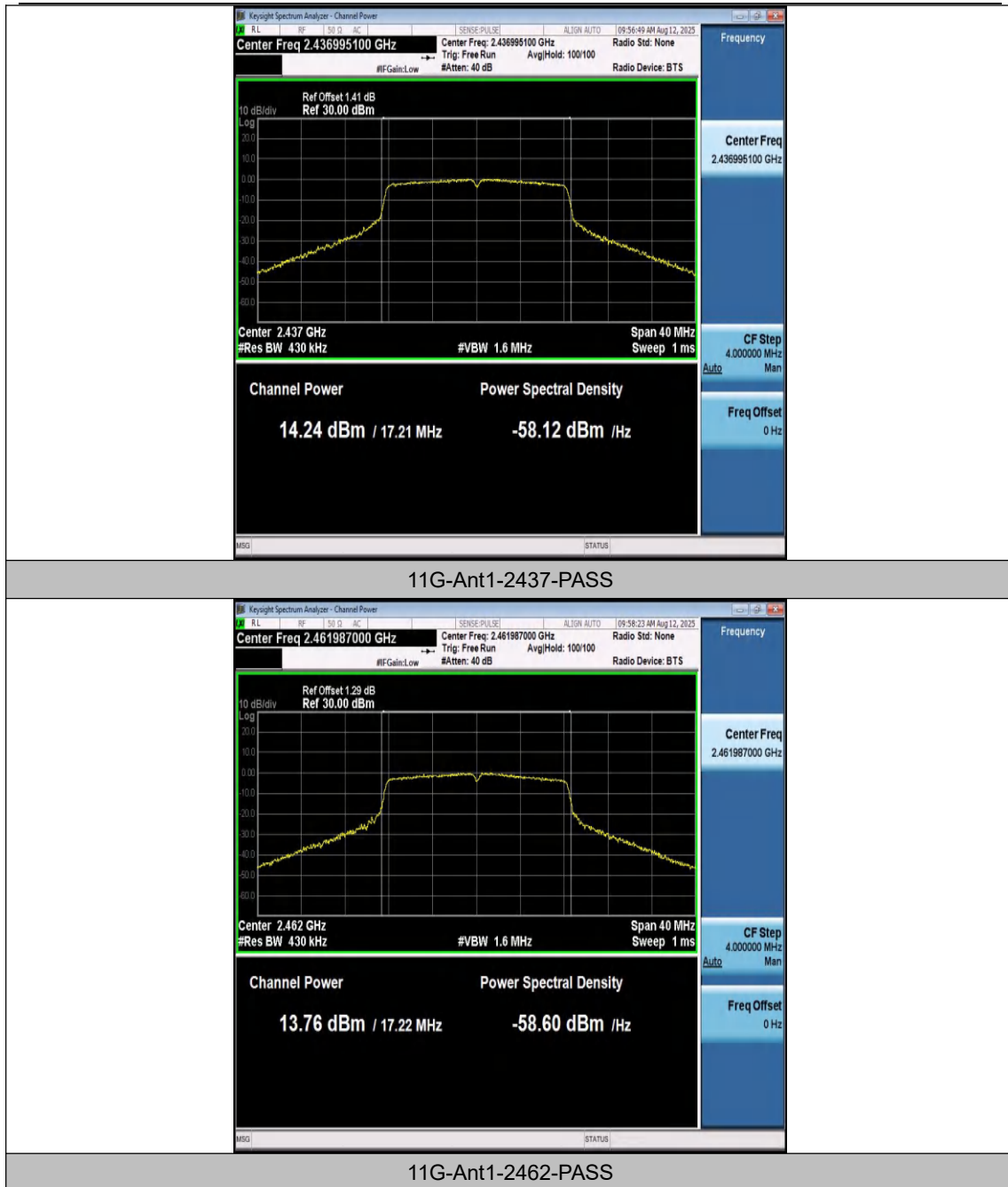
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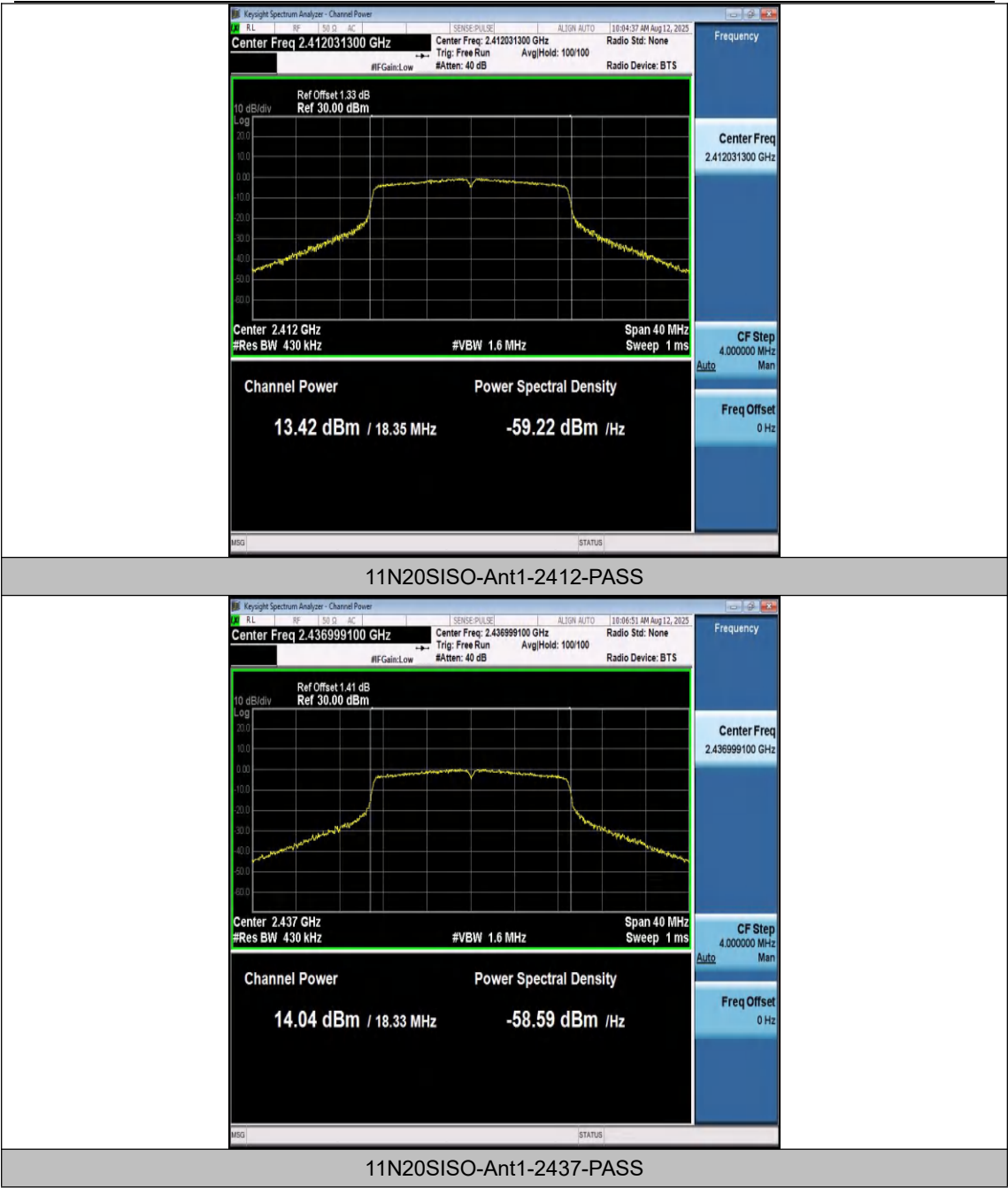


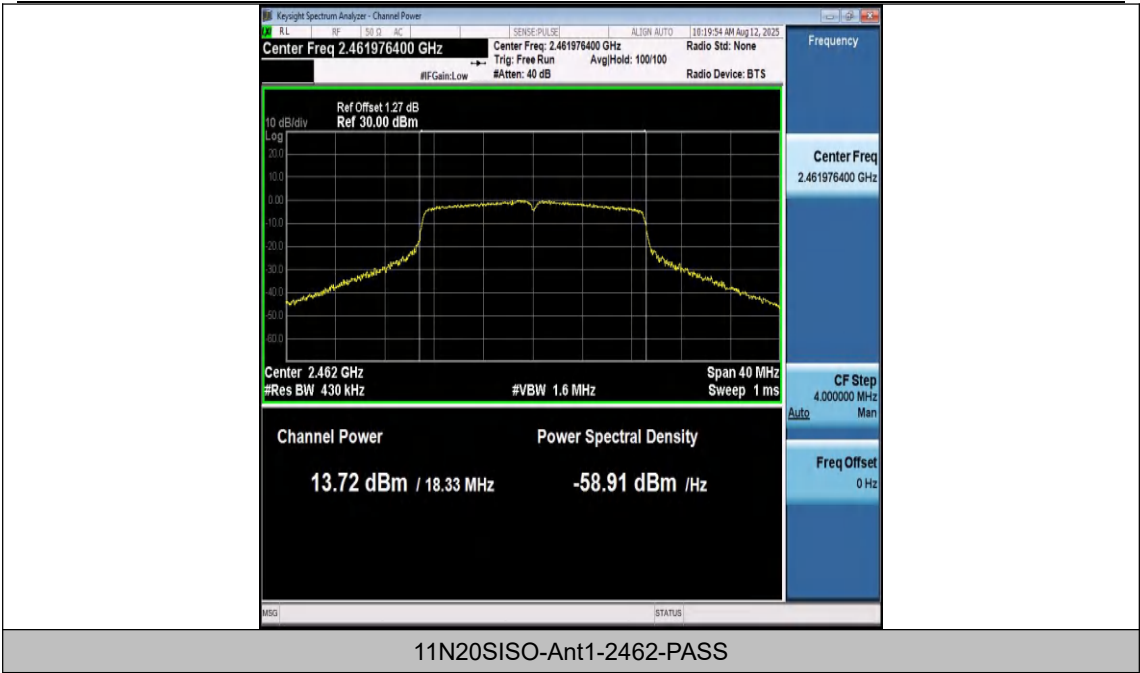
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Appendix D: Maximum power spectral density

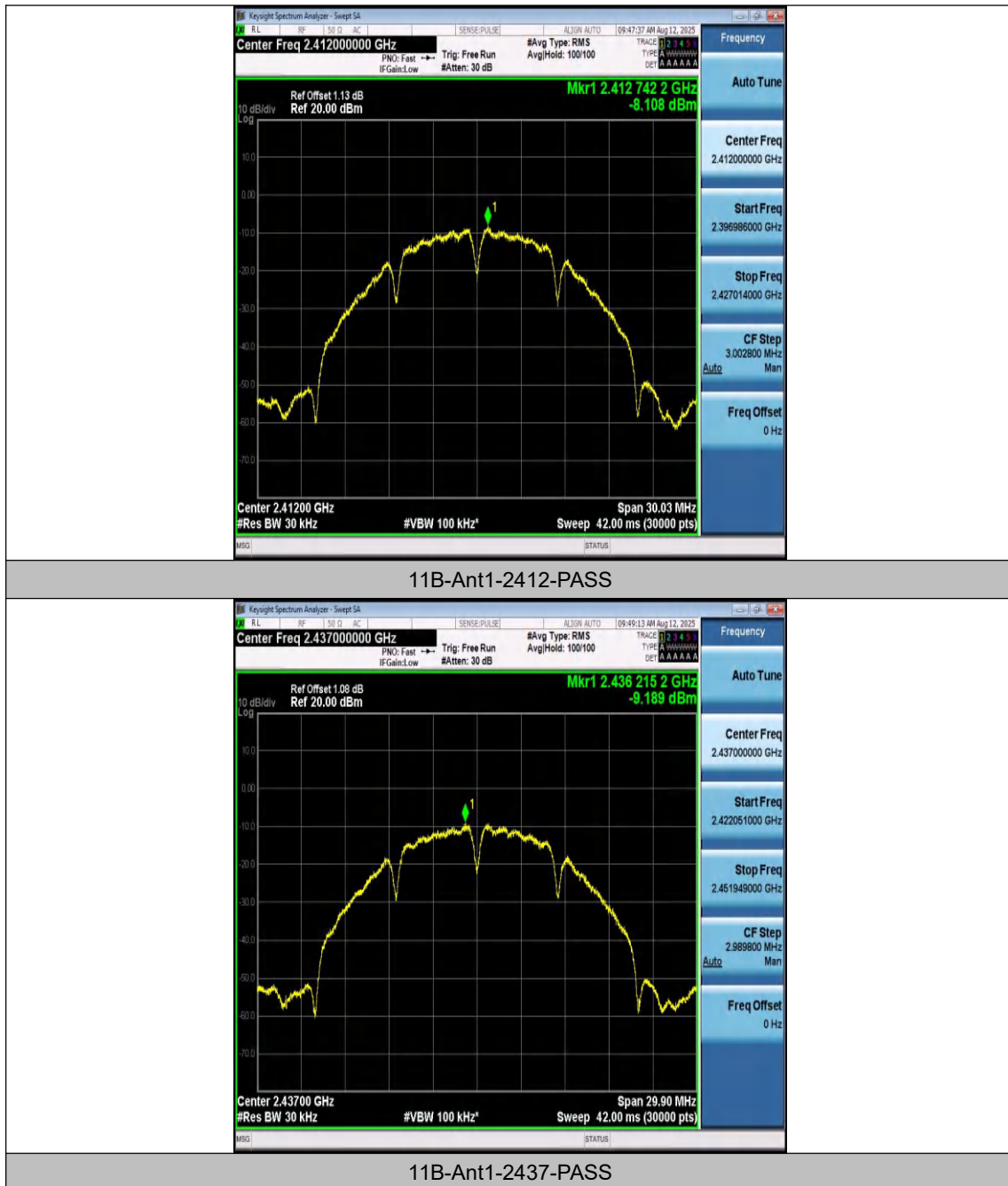
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-8.11	-18.11	≤8.00	PASS
11B	Ant1	2437	-9.19	-19.19	≤8.00	PASS
11B	Ant1	2462	-9.38	-19.38	≤8.00	PASS
11G	Ant1	2412	-9.73	-19.73	≤8.00	PASS
11G	Ant1	2437	-9.11	-19.11	≤8.00	PASS
11G	Ant1	2462	-9.68	-19.68	≤8.00	PASS
11N20SISO	Ant1	2412	-10.18	-20.18	≤8.00	PASS
11N20SISO	Ant1	2437	-9.28	-19.28	≤8.00	PASS
11N20SISO	Ant1	2462	-9.97	-19.97	≤8.00	PASS

Note:

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

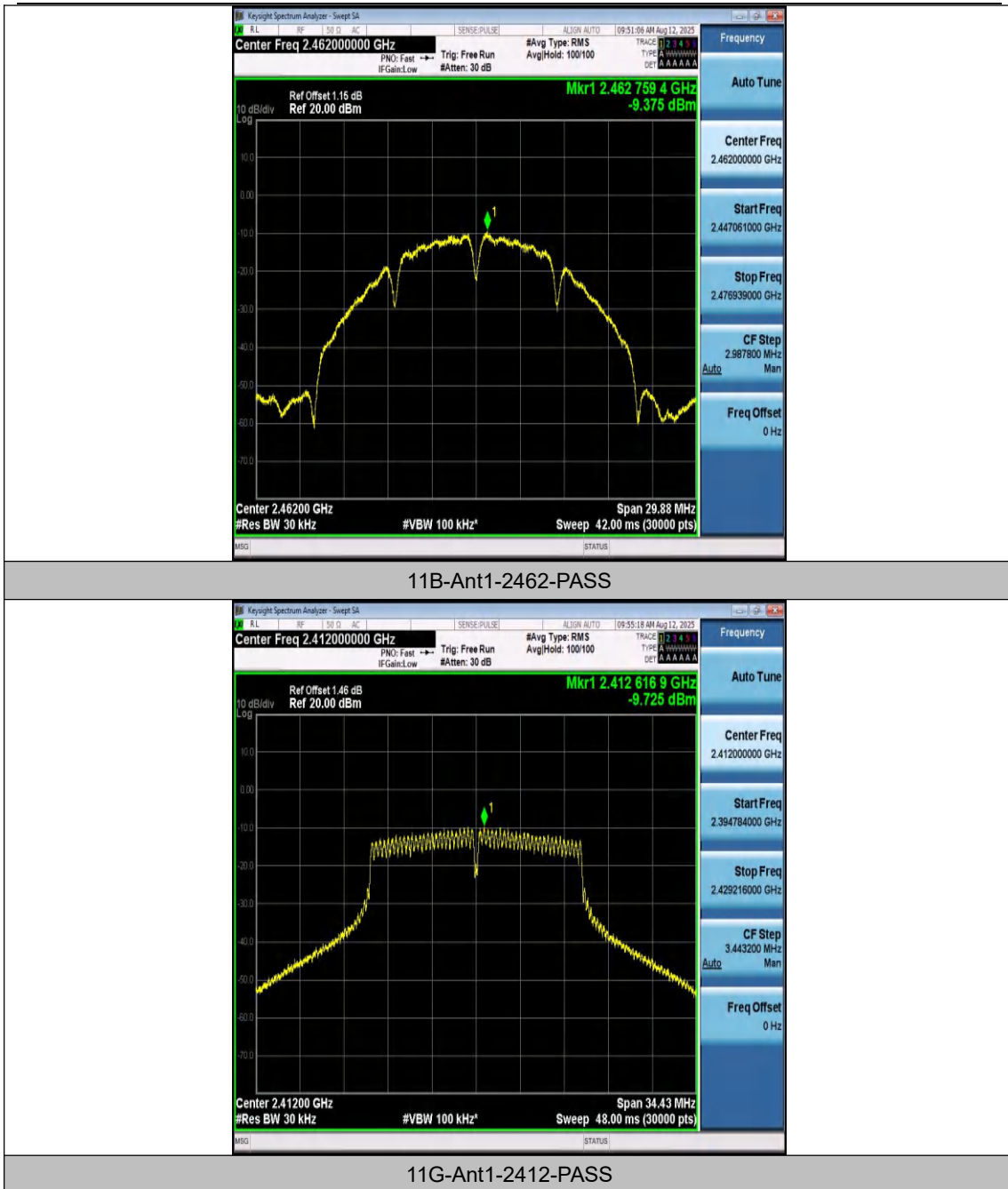
Test Graphs



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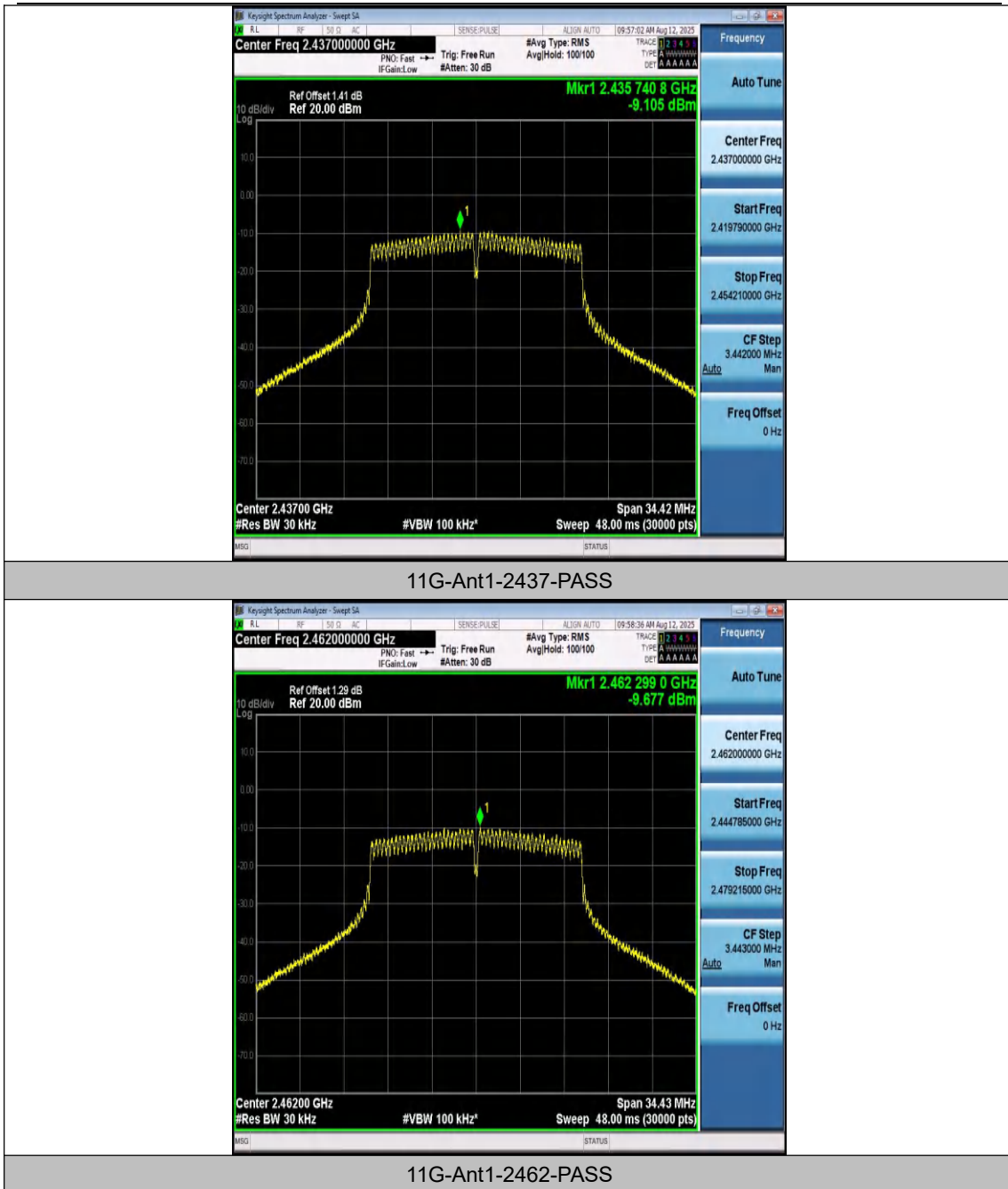
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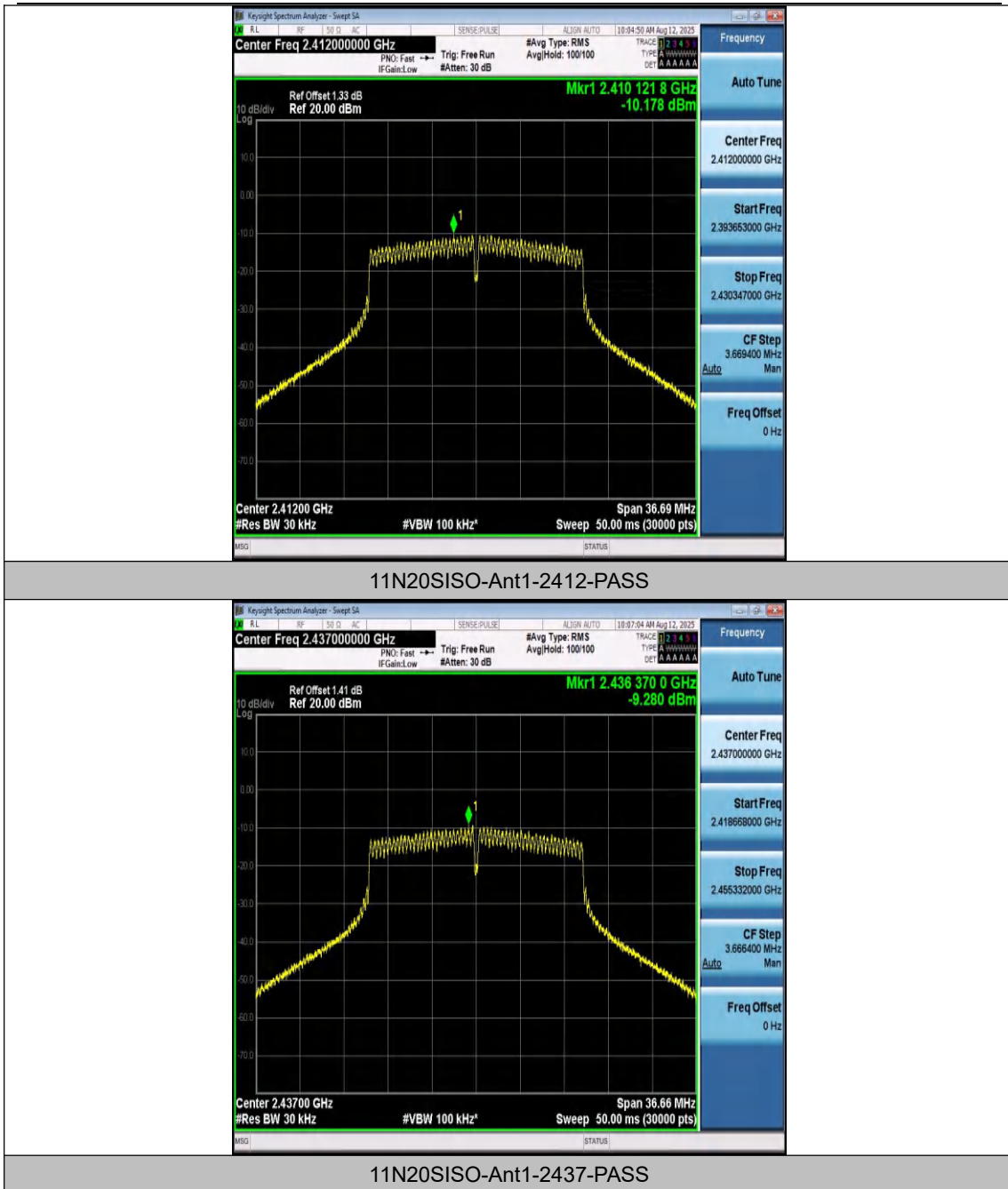
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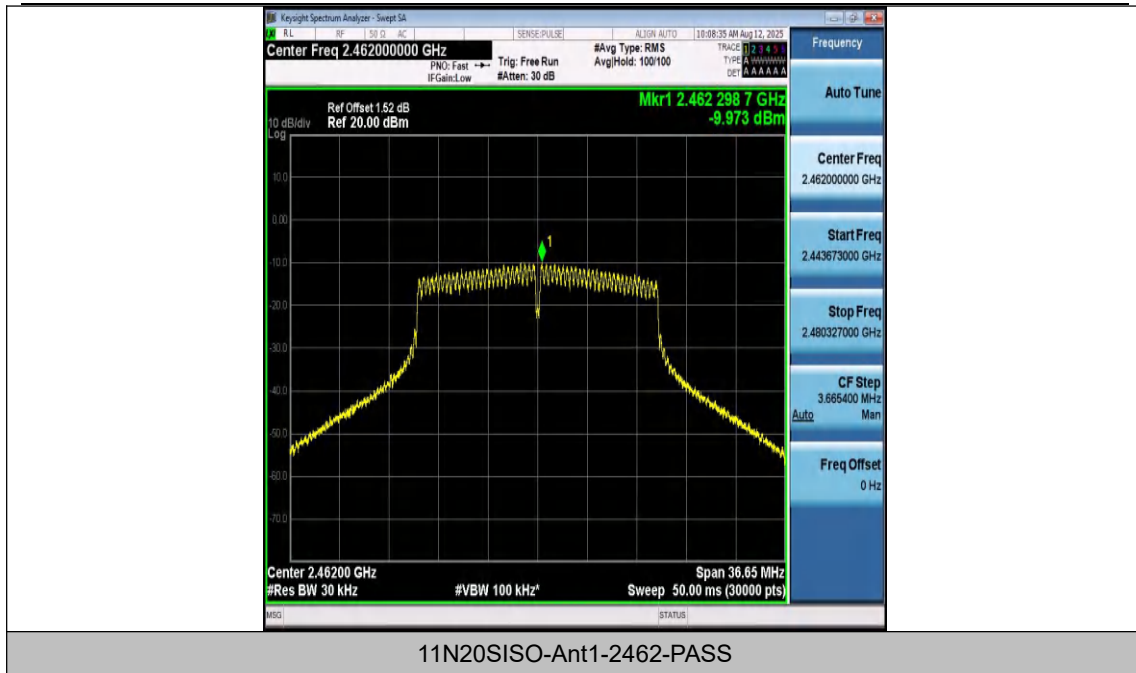
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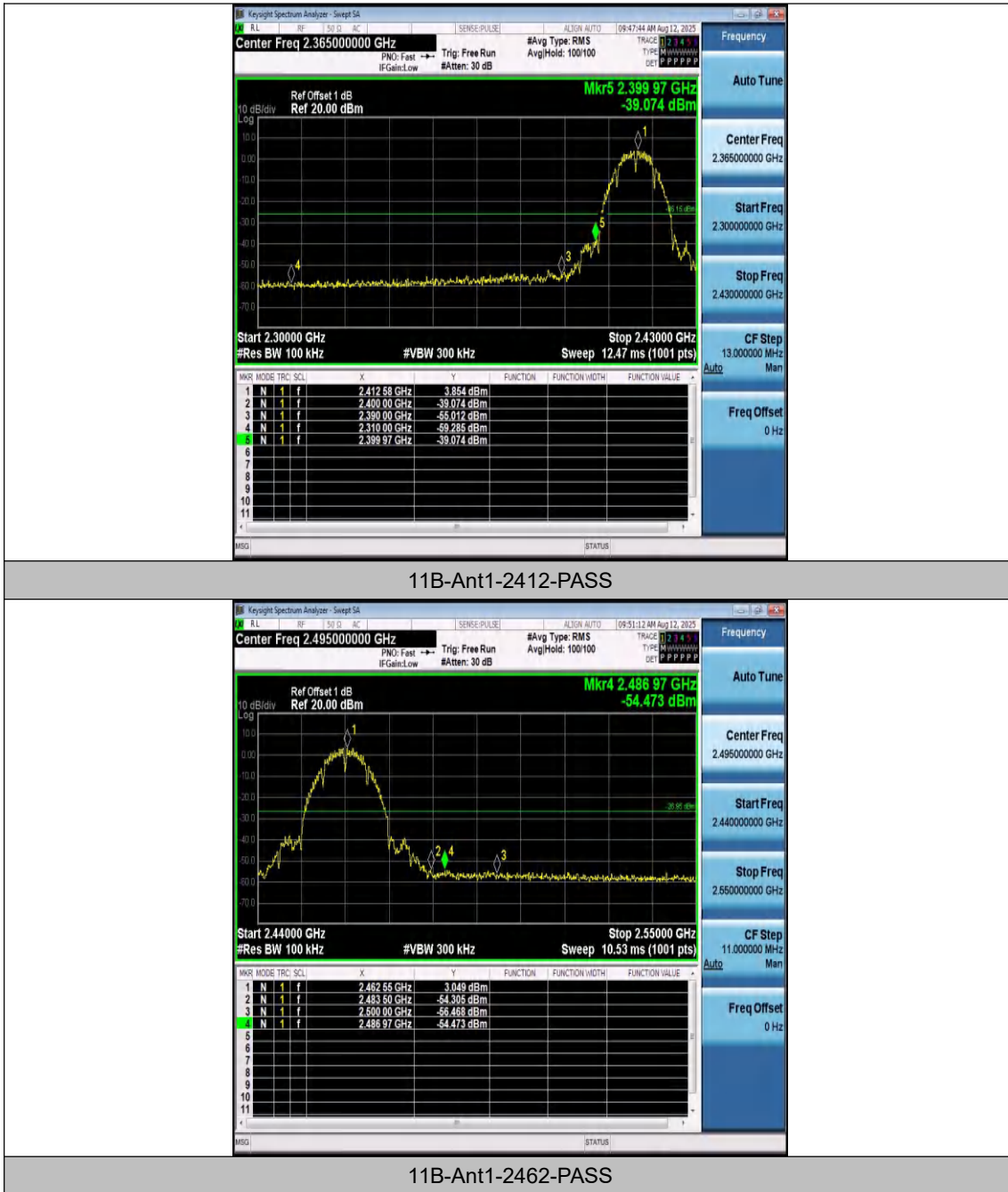
Appendix E: Conducted Band edge

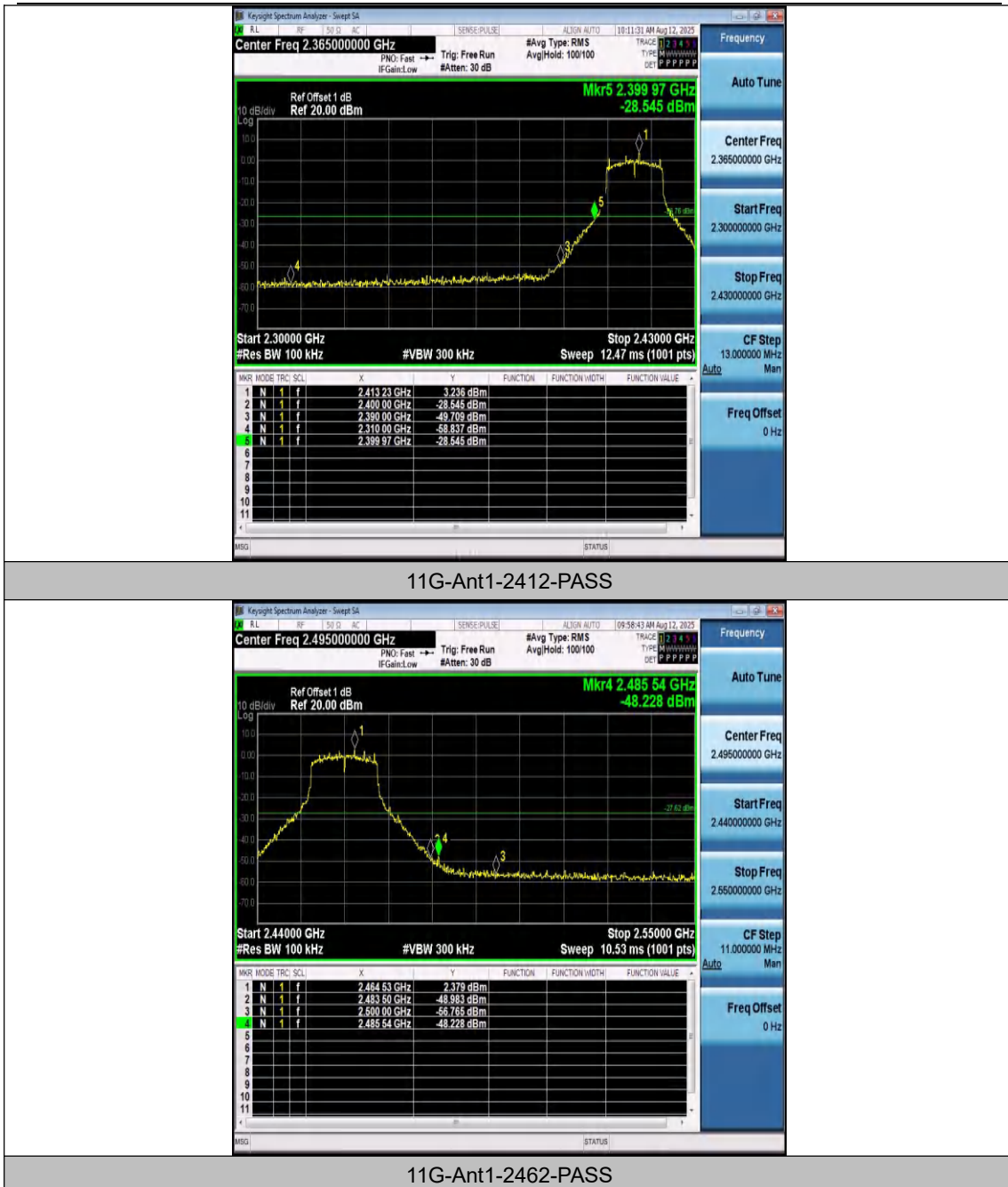
Test Result

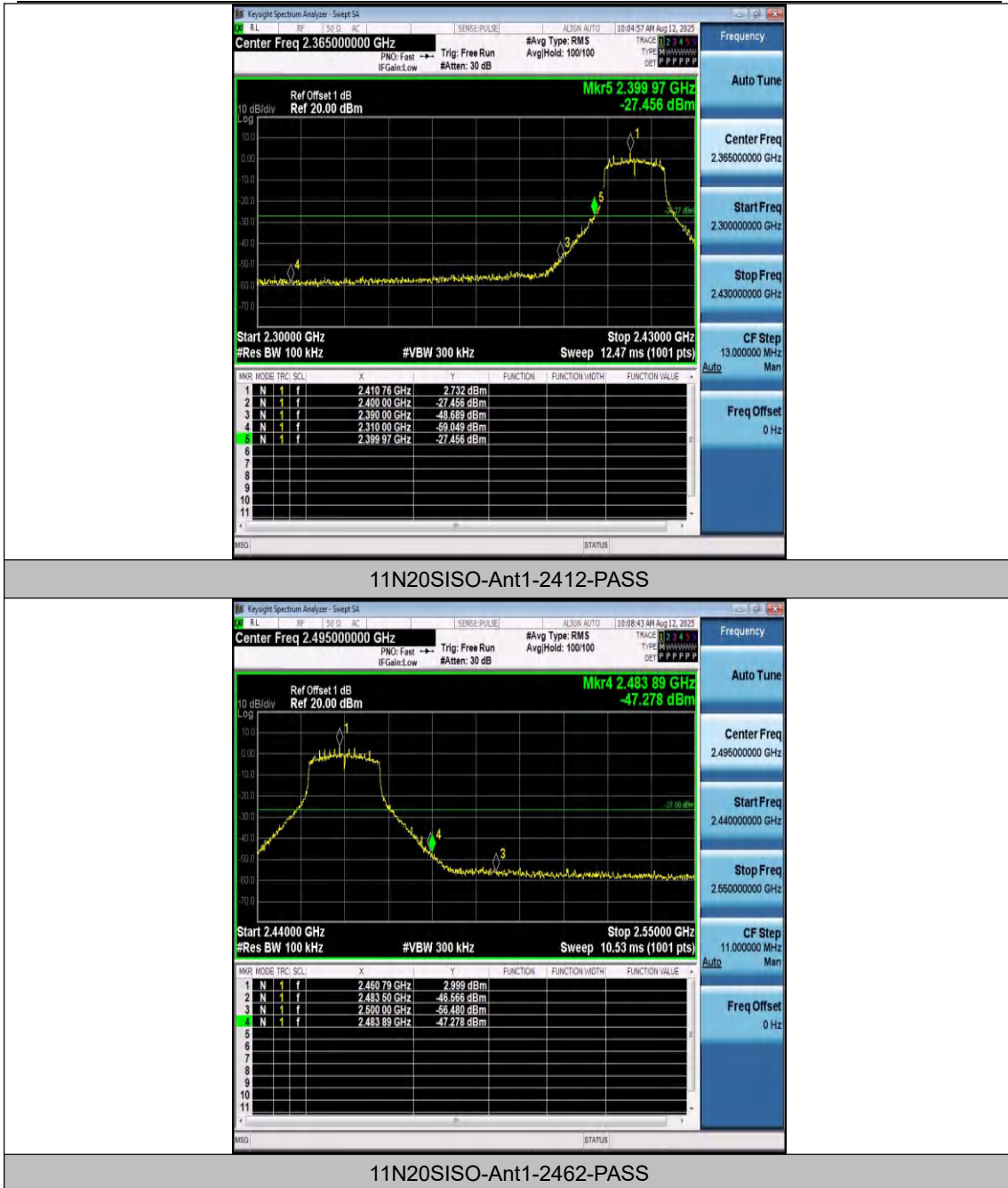
Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.85	-39.07	≤-26.15	PASS
11B	Ant1	High	2462	3.05	-54.47	≤-26.95	PASS
11G	Ant1	Low	2412	3.24	-28.55	≤-26.76	PASS
11G	Ant1	High	2462	2.38	-48.23	≤-27.62	PASS
11N20SISO	Ant1	Low	2412	2.73	-27.46	≤-27.27	PASS
11N20SISO	Ant1	High	2462	3.00	-47.28	≤-27	PASS

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

Test Graphs







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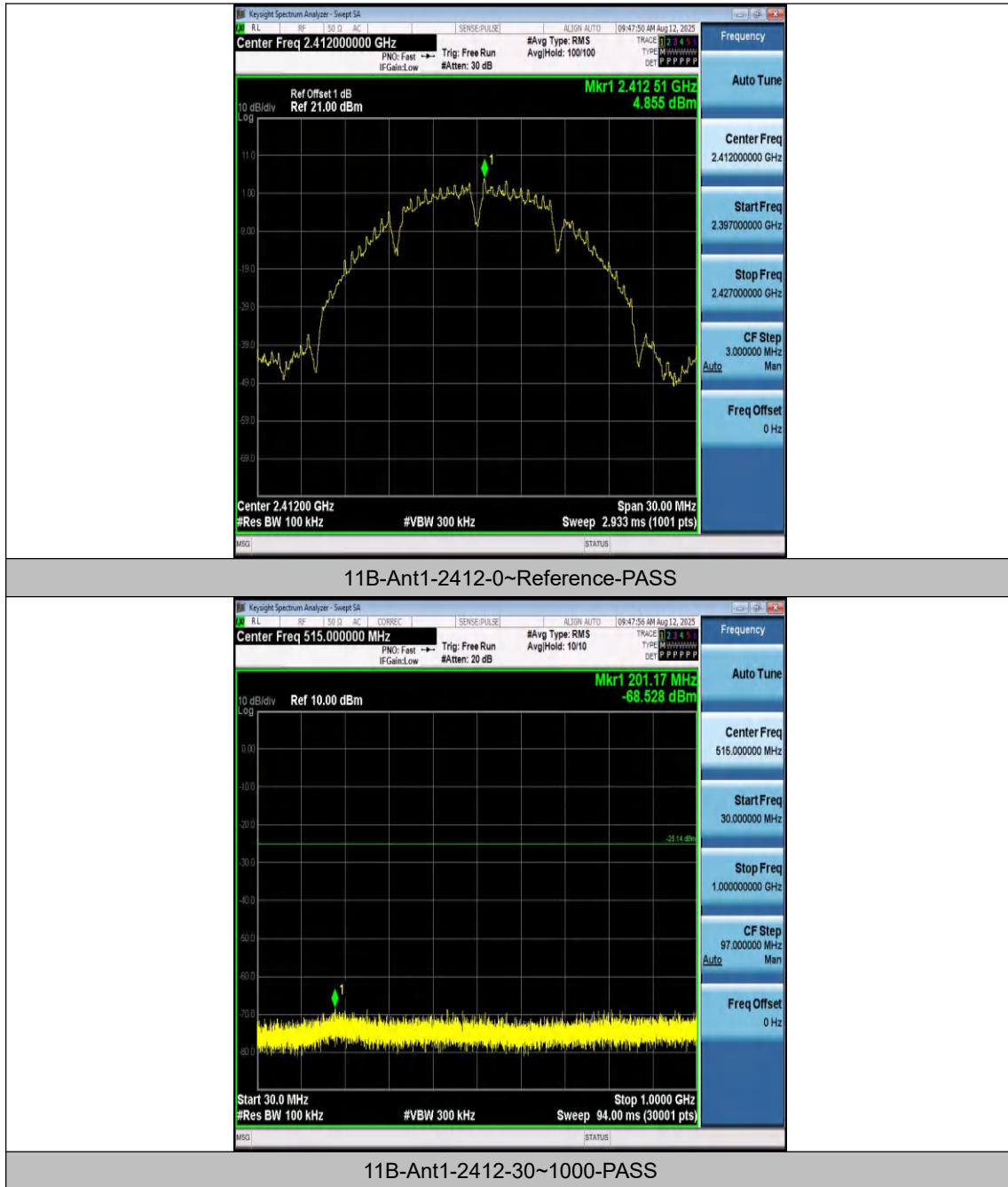
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.86	4.86	---	PASS
11B	Ant1	2412	30~1000	4.86	-68.53	≤-25.14	PASS
11B	Ant1	2412	1000~26500	4.86	-48.97	≤-25.14	PASS
11B	Ant1	2437	0~Reference	4.03	4.03	---	PASS
11B	Ant1	2437	30~1000	4.03	-68.79	≤-25.97	PASS
11B	Ant1	2437	1000~26500	4.03	-45.85	≤-25.97	PASS
11B	Ant1	2462	0~Reference	3.14	3.14	---	PASS
11B	Ant1	2462	30~1000	3.14	-67.82	≤-26.86	PASS
11B	Ant1	2462	1000~26500	3.14	-45.44	≤-26.86	PASS
11G	Ant1	2412	0~Reference	3.25	3.25	---	PASS
11G	Ant1	2412	30~1000	3.25	-67.89	≤-26.75	PASS
11G	Ant1	2412	1000~26500	3.25	-50.23	≤-26.75	PASS
11G	Ant1	2437	0~Reference	3.72	3.72	---	PASS
11G	Ant1	2437	30~1000	3.72	-67.37	≤-26.28	PASS
11G	Ant1	2437	1000~26500	3.72	-48.16	≤-26.28	PASS
11G	Ant1	2462	0~Reference	2.00	2.00	---	PASS
11G	Ant1	2462	30~1000	2.00	-68.39	≤-28	PASS
11G	Ant1	2462	1000~26500	2.00	-47.63	≤-28	PASS
11N20SISO	Ant1	2412	0~Reference	3.20	3.20	---	PASS
11N20SISO	Ant1	2412	30~1000	3.20	-67.99	≤-26.8	PASS
11N20SISO	Ant1	2412	1000~26500	3.20	-50.75	≤-26.8	PASS
11N20SISO	Ant1	2437	0~Reference	3.22	3.22	---	PASS
11N20SISO	Ant1	2437	30~1000	3.22	-68.09	≤-26.78	PASS
11N20SISO	Ant1	2437	1000~26500	3.22	-48.45	≤-26.78	PASS
11N20SISO	Ant1	2462	0~Reference	2.82	2.82	---	PASS
11N20SISO	Ant1	2462	30~1000	2.82	-68.81	≤-27.18	PASS
11N20SISO	Ant1	2462	1000~26500	2.82	-47.13	≤-27.18	PASS

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

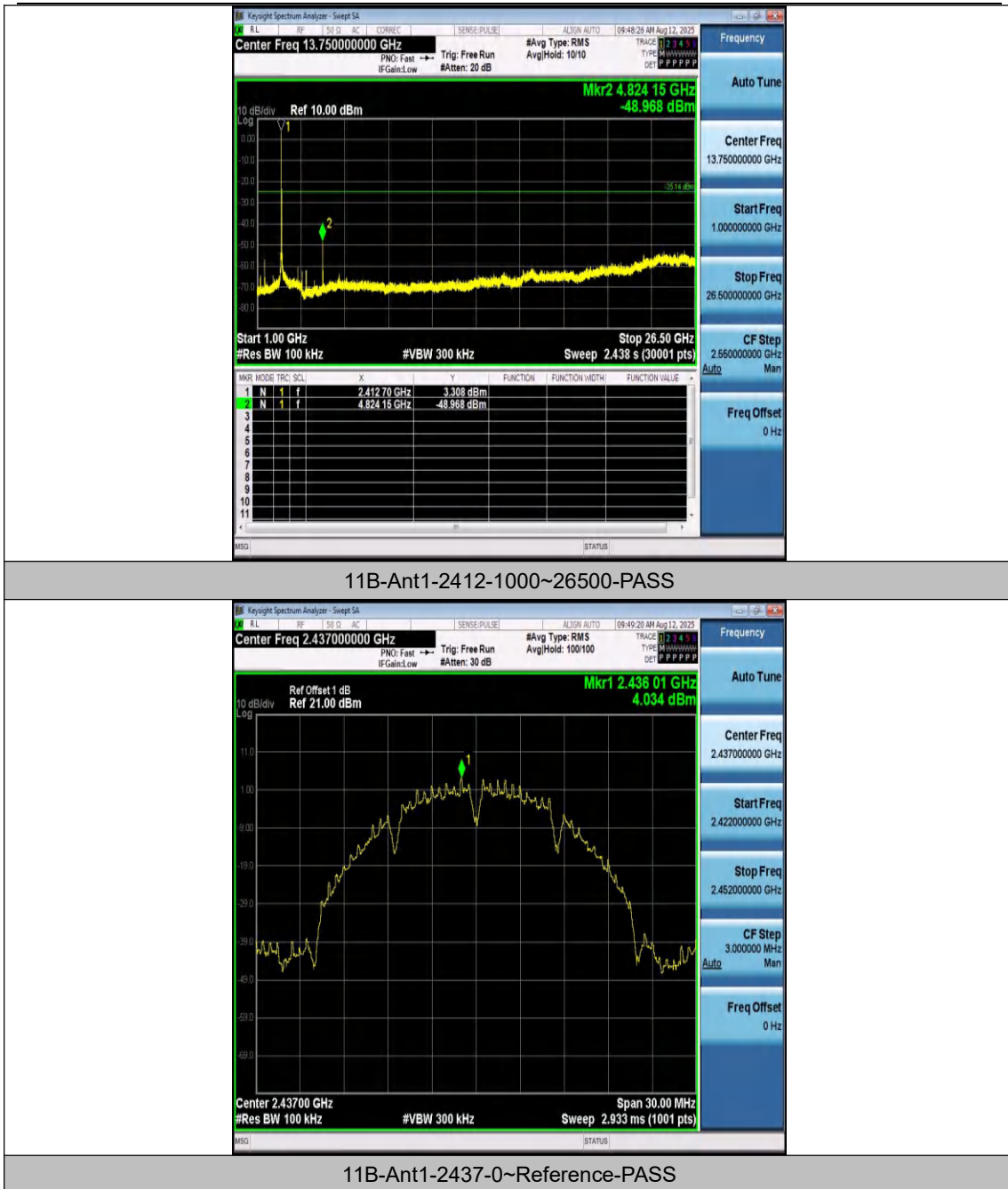
Test Graphs



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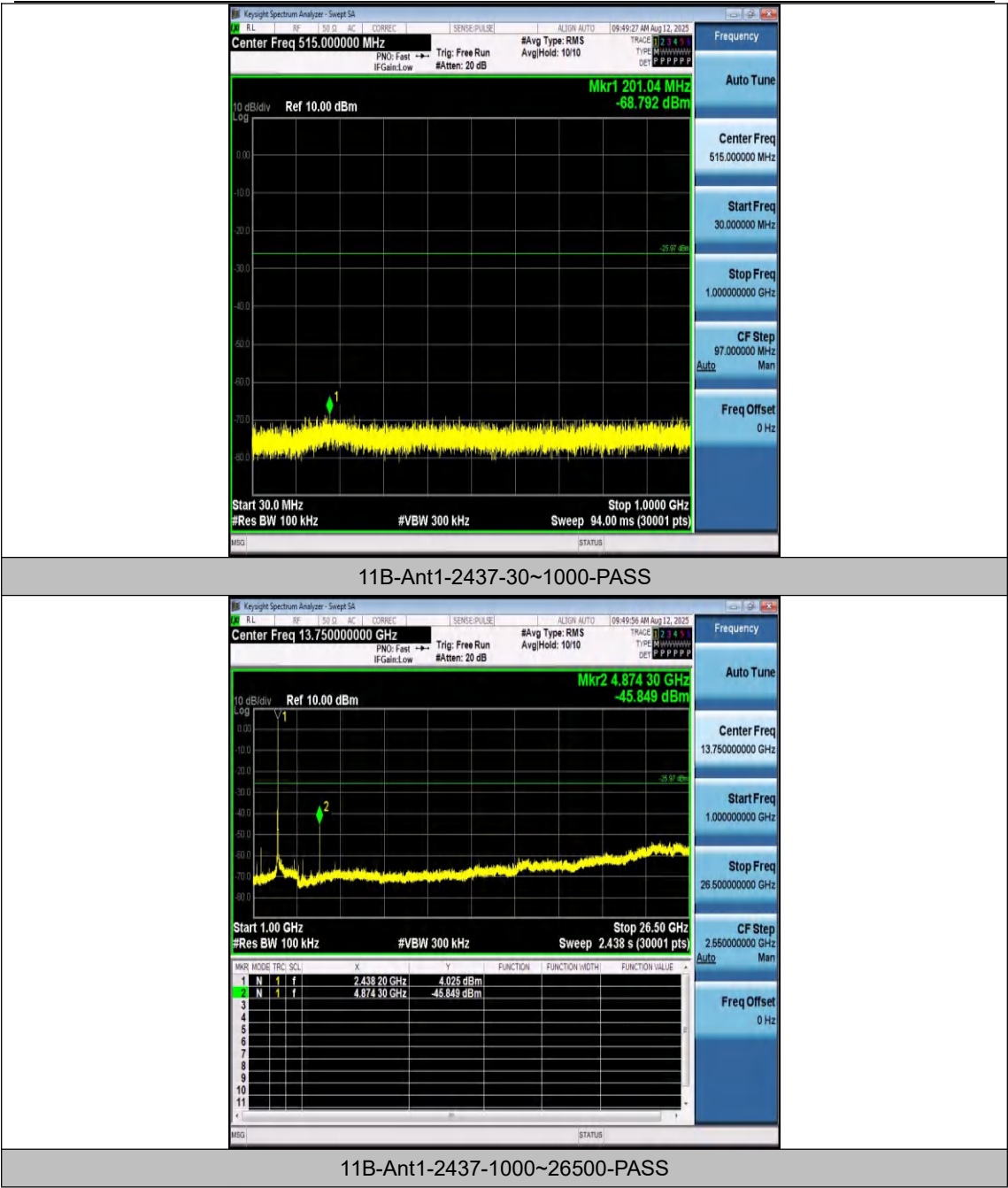
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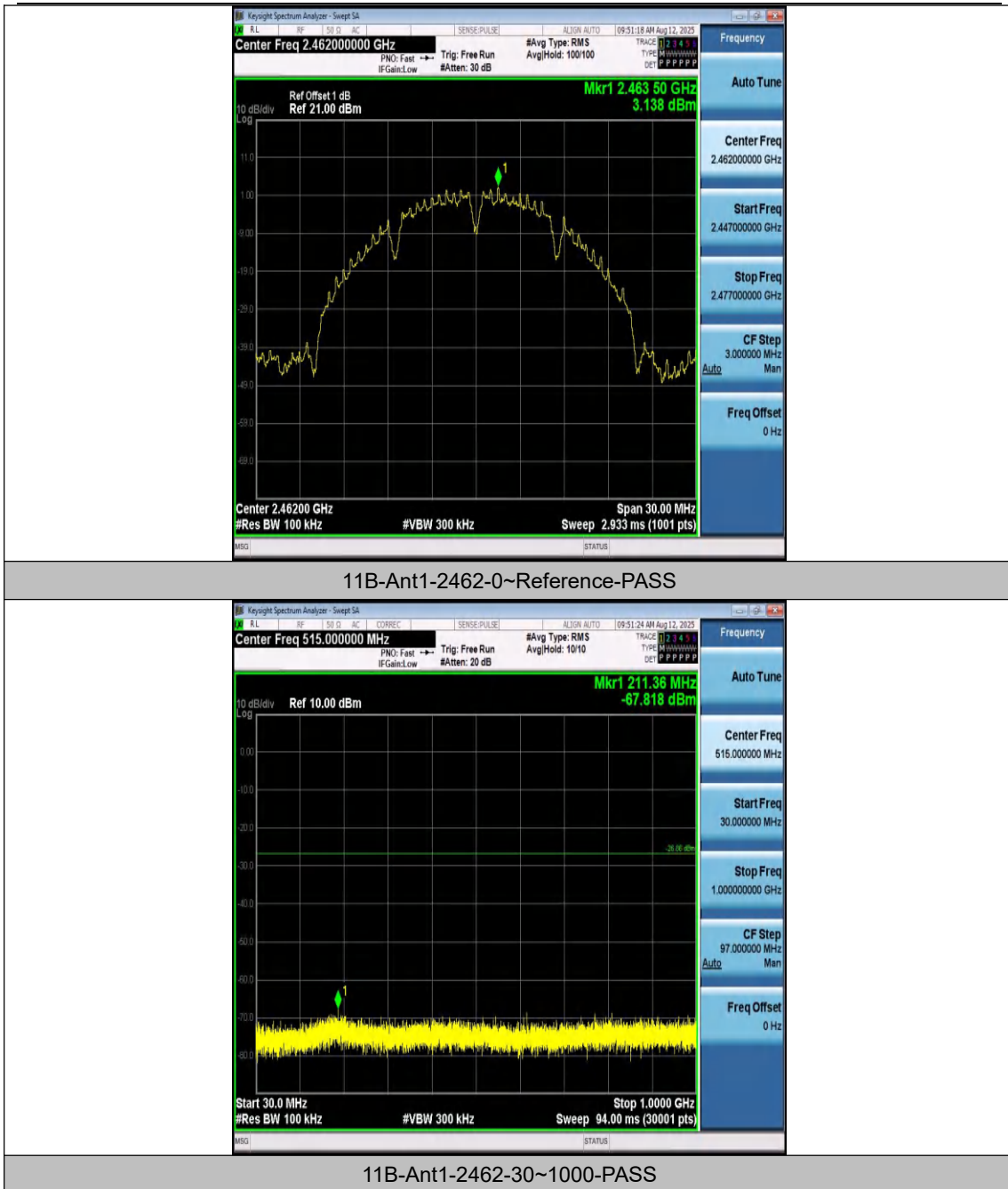
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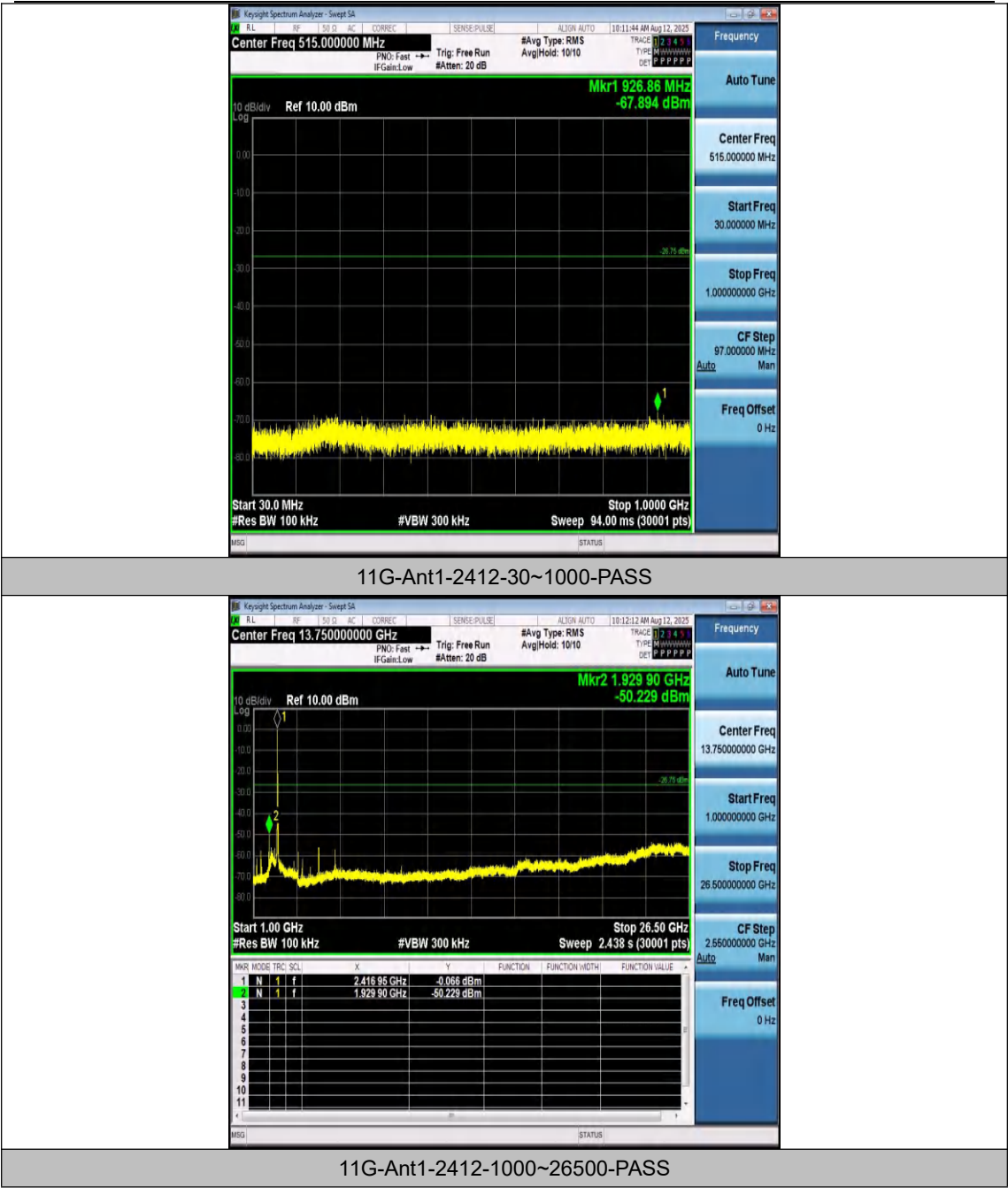
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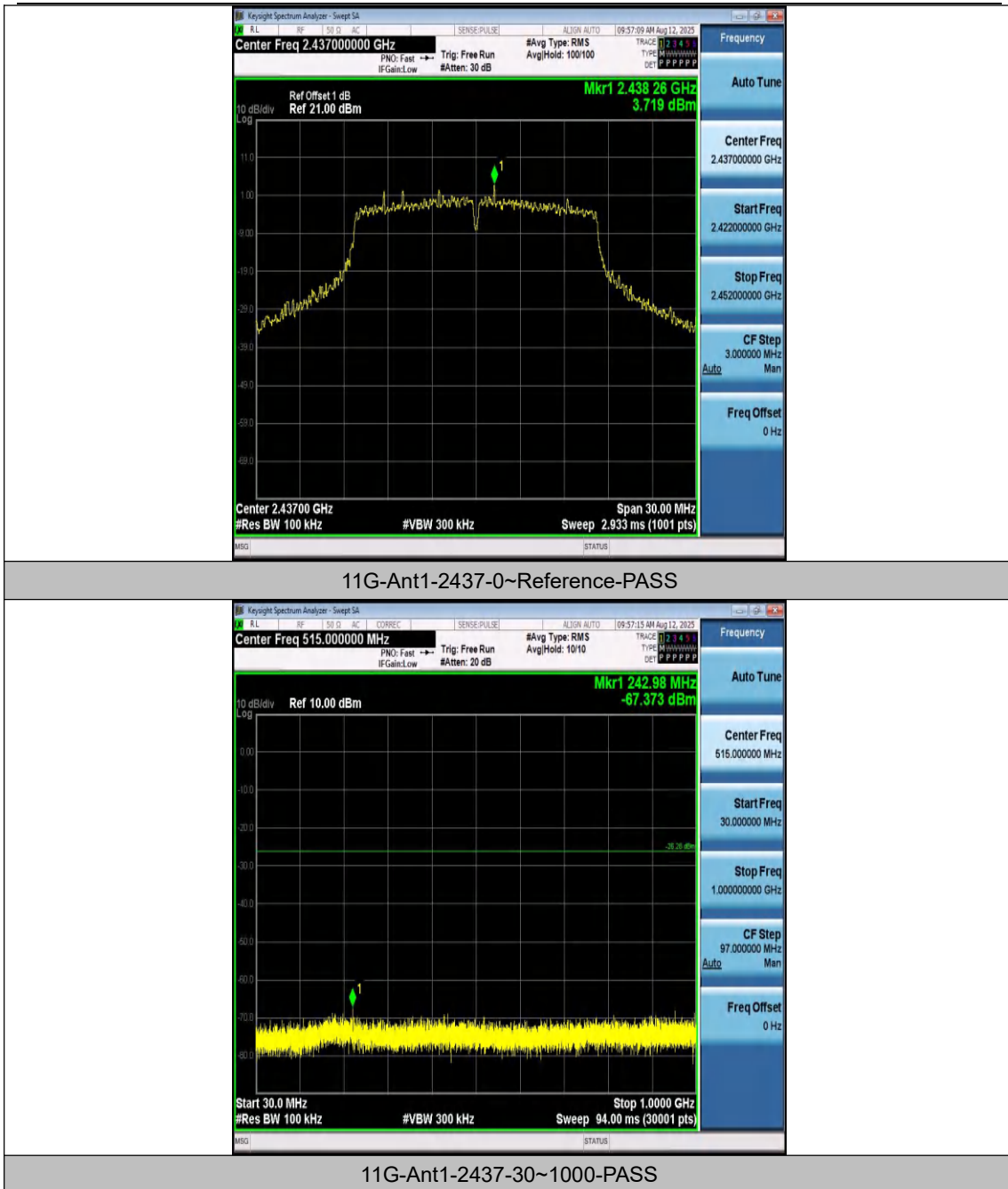


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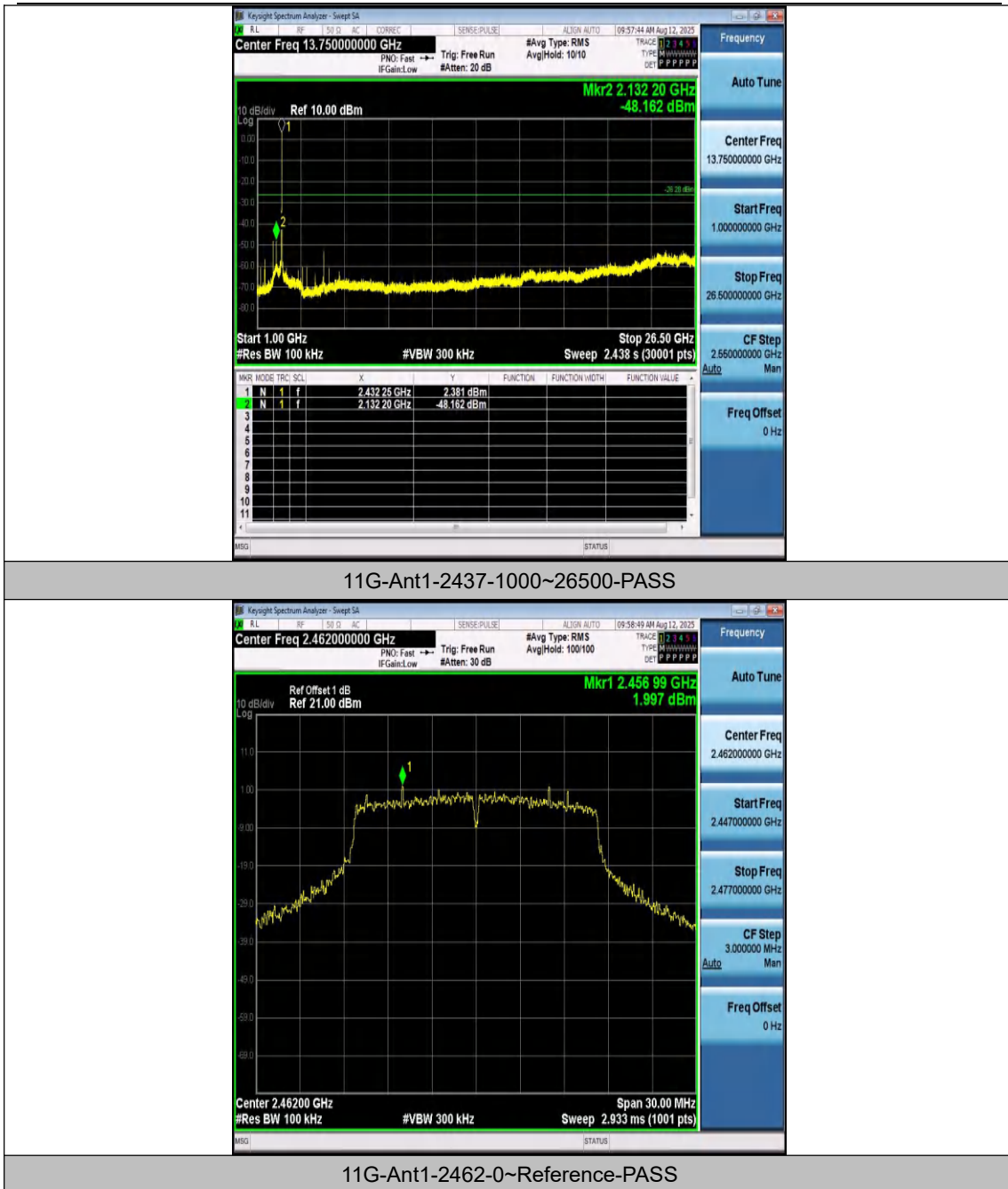




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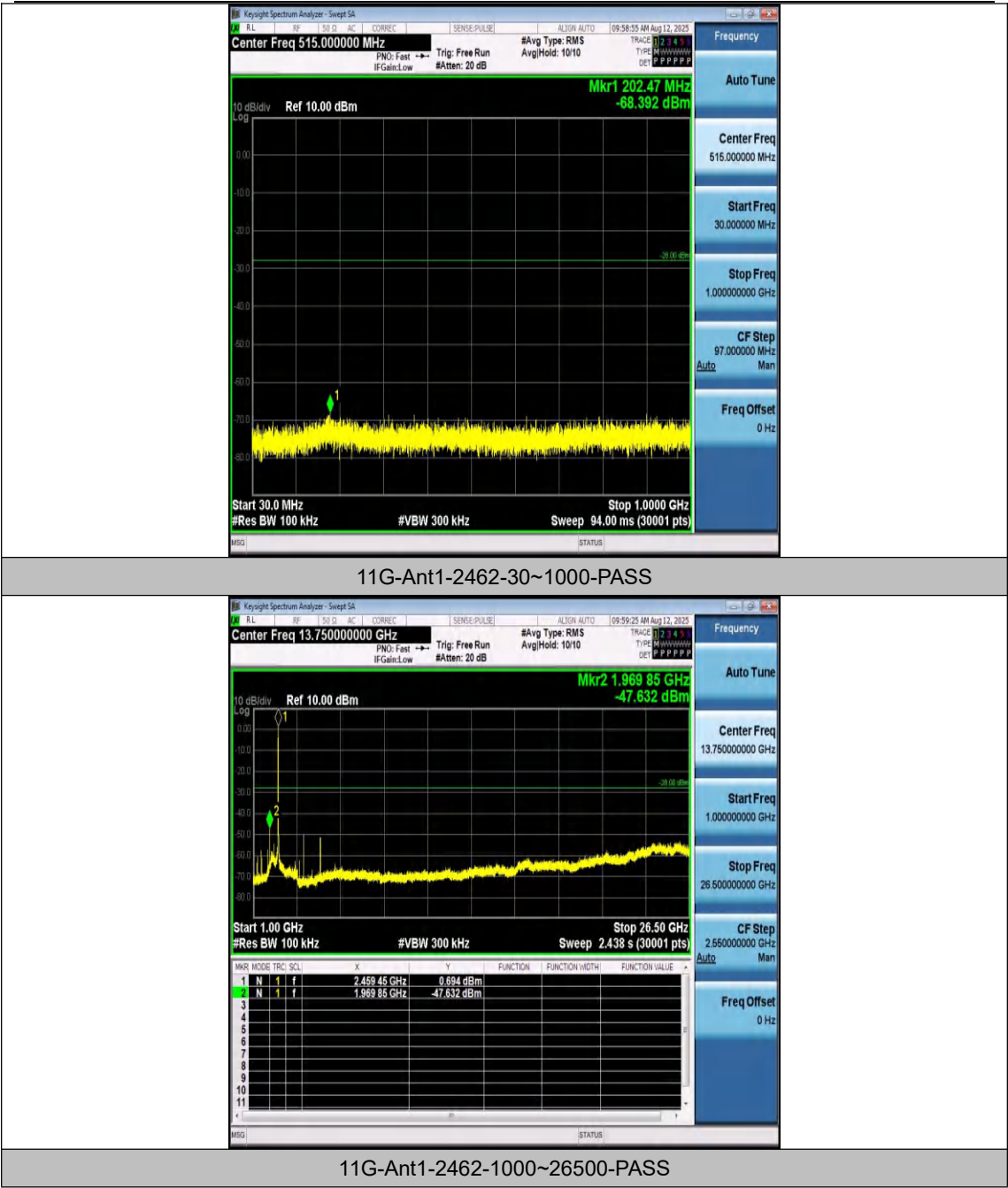
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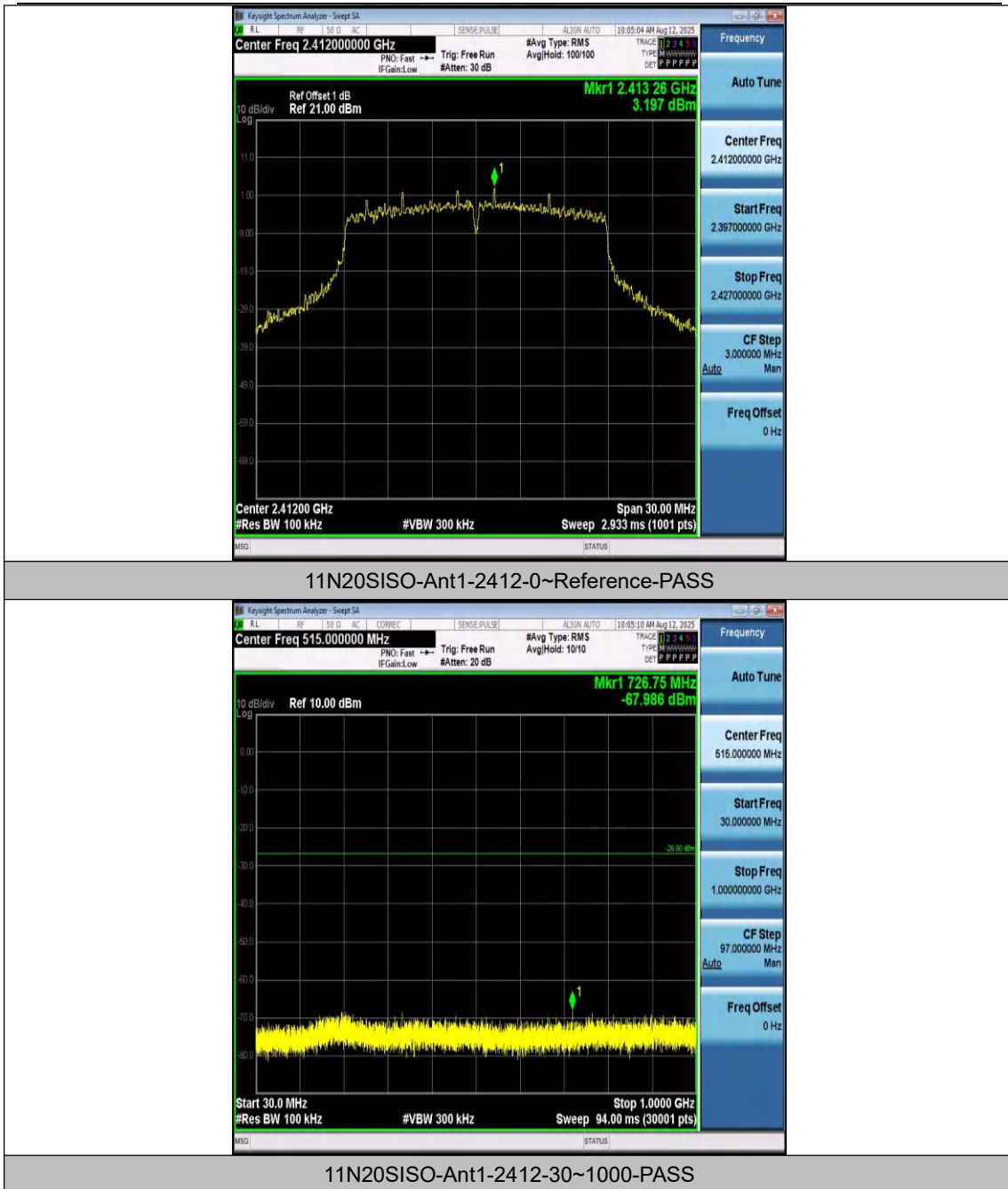


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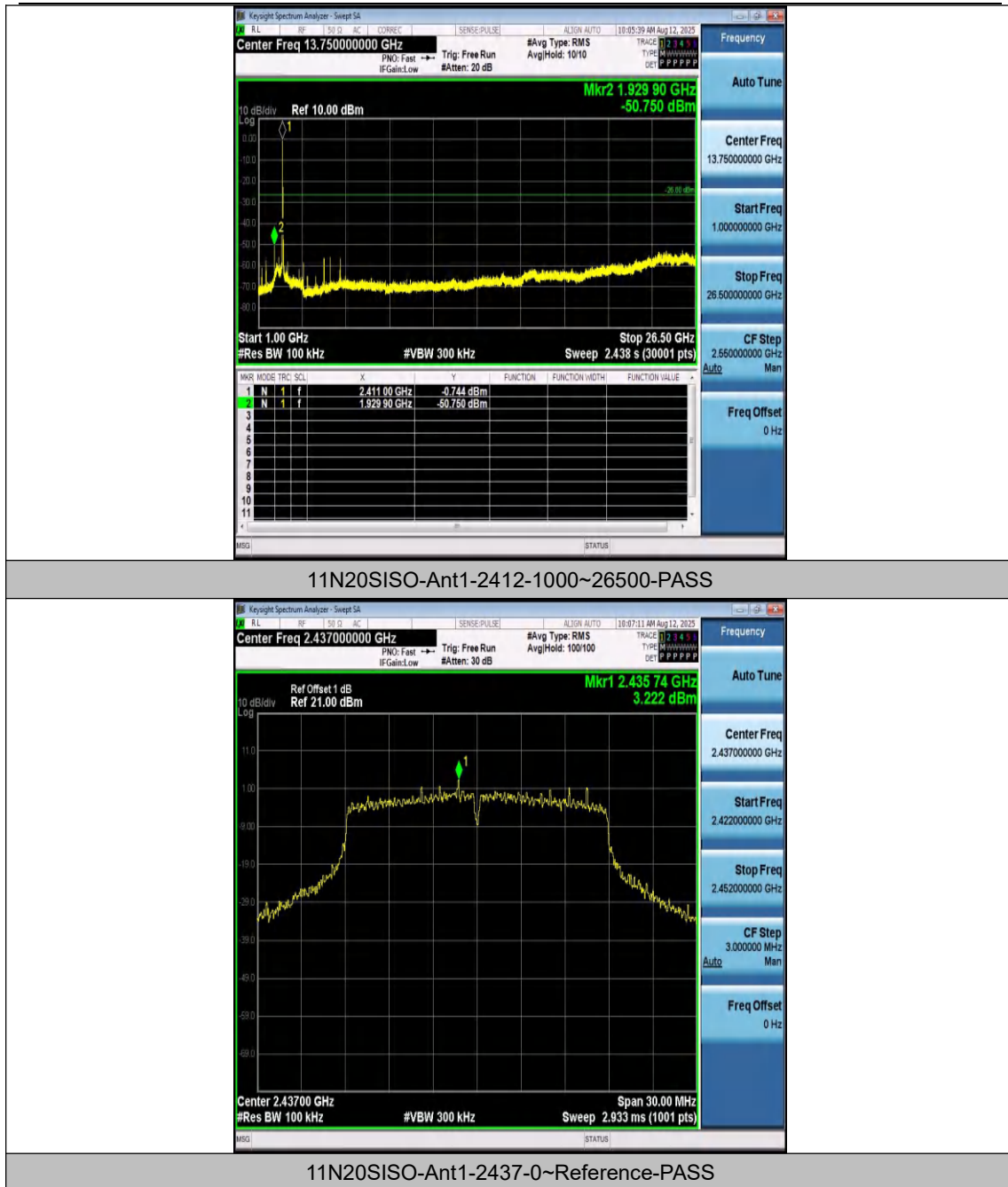




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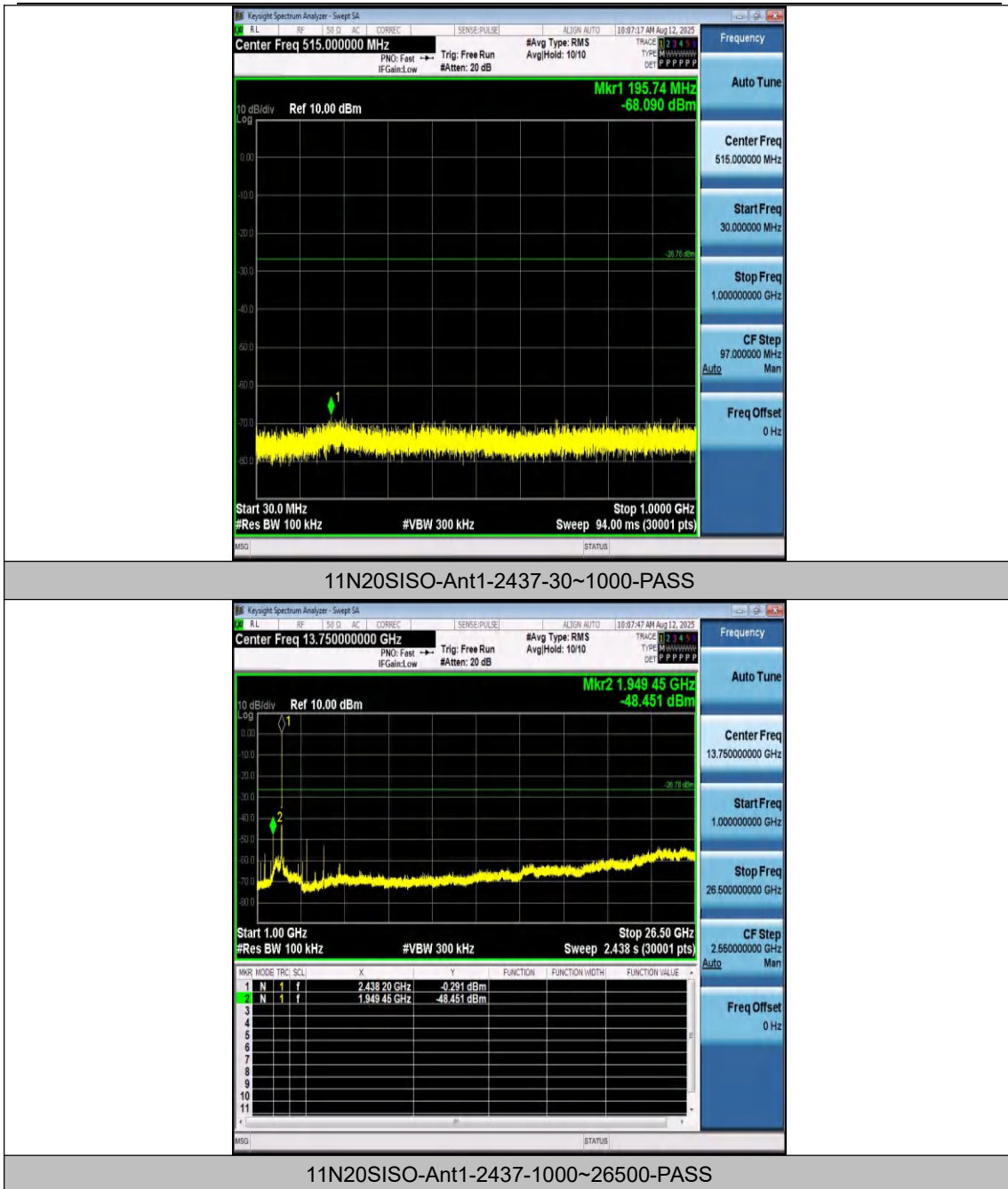
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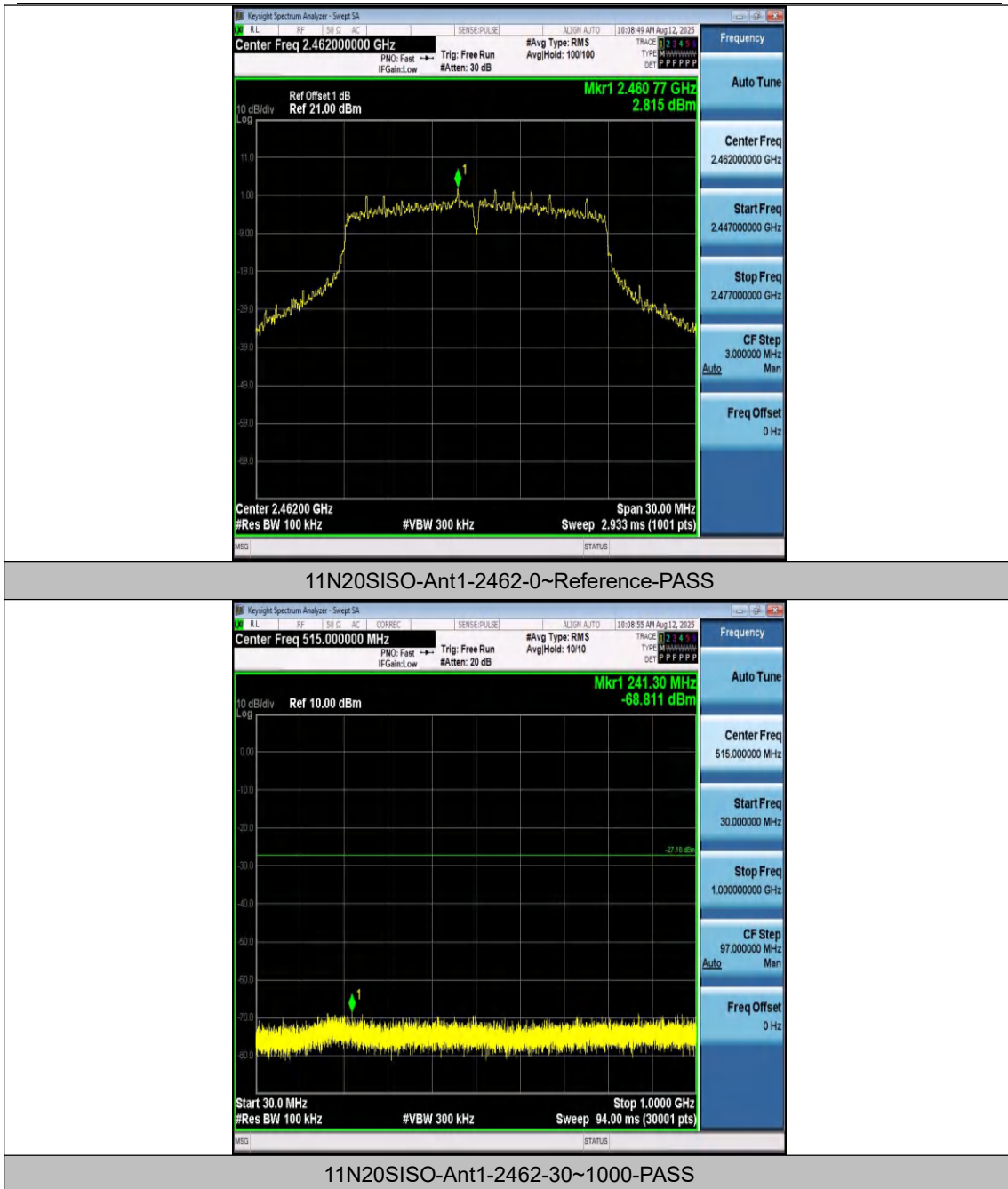
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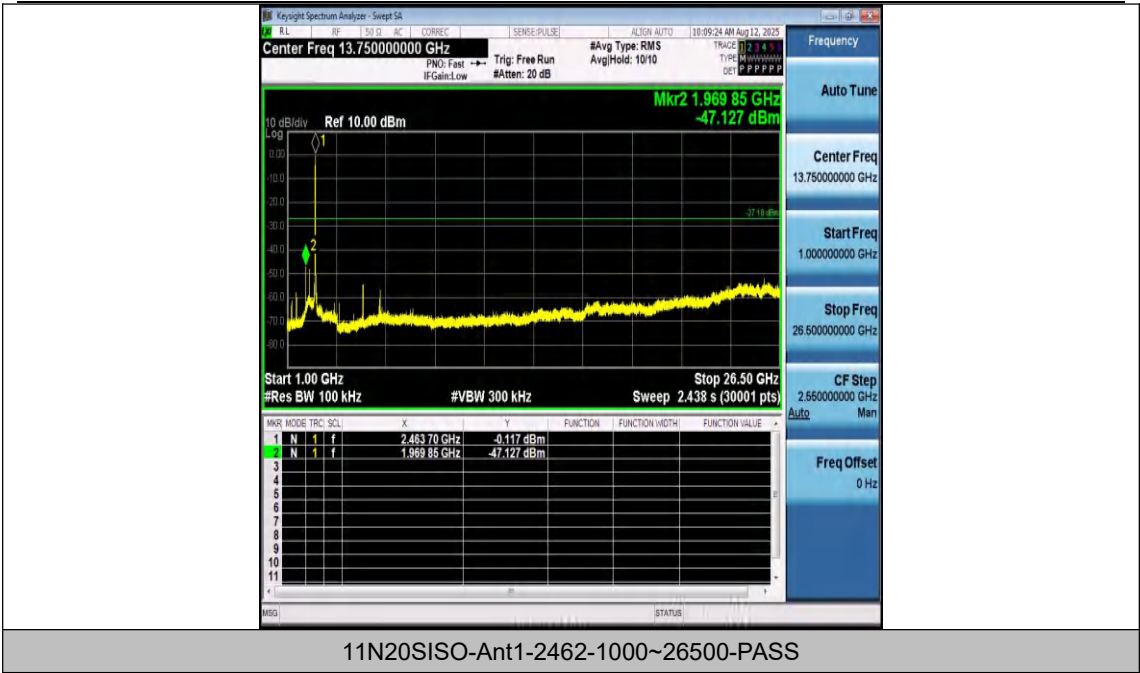
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11N20SISO-Ant1-2462-1000~26500-PASS

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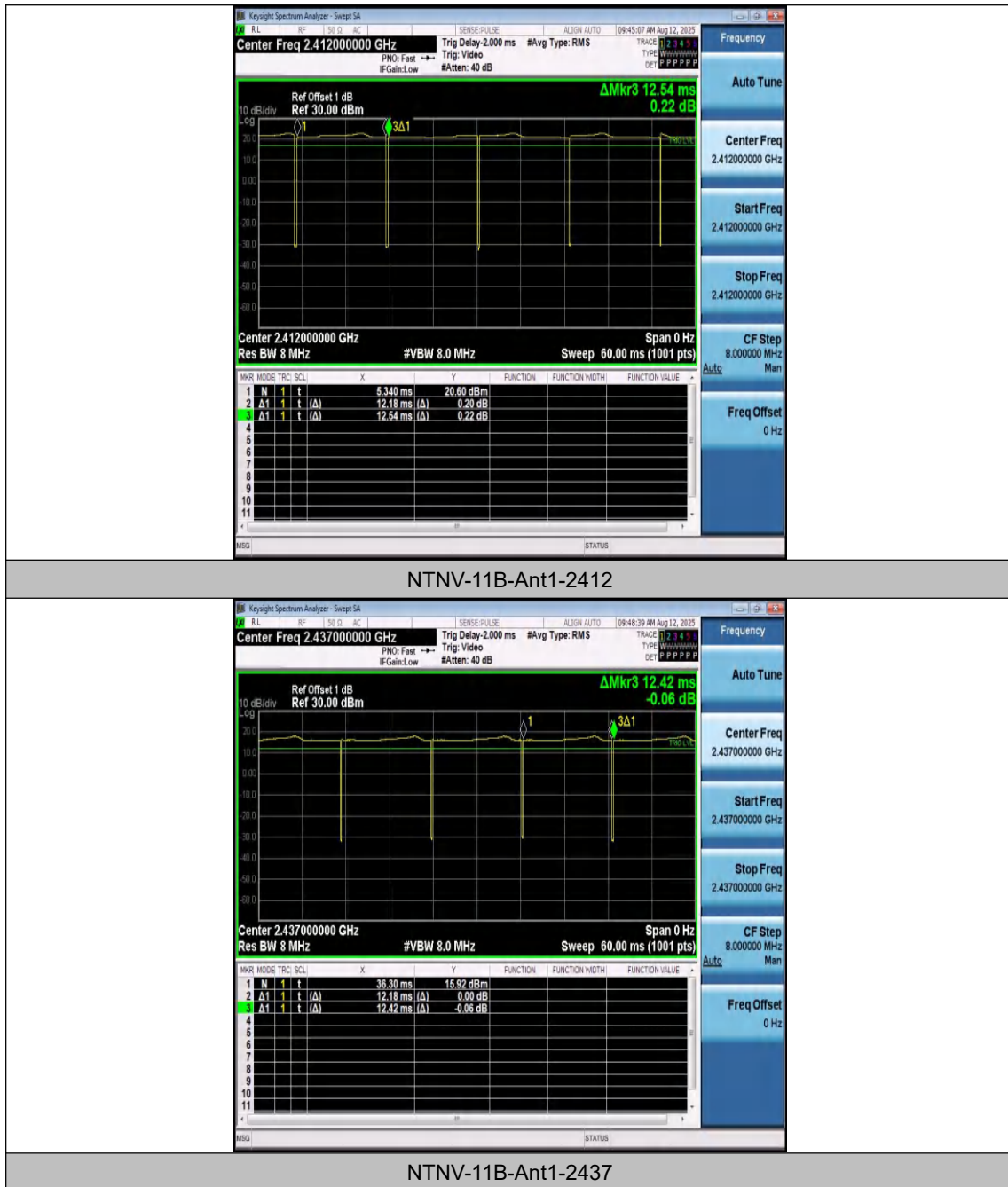
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.18	12.54	97.13	0.13
11B	Ant1	2437	12.18	12.42	98.07	0.08
11B	Ant1	2462	12.18	12.60	96.67	0.15
11G	Ant1	2412	2.03	2.21	91.86	0.37
11G	Ant1	2437	2.02	2.22	90.99	0.41
11G	Ant1	2462	2.02	2.16	93.52	0.29
11N20SISO	Ant1	2412	1.90	2.05	92.68	0.33
11N20SISO	Ant1	2437	1.90	2.09	90.91	0.41
11N20SISO	Ant1	2462	1.90	2.02	94.06	0.27

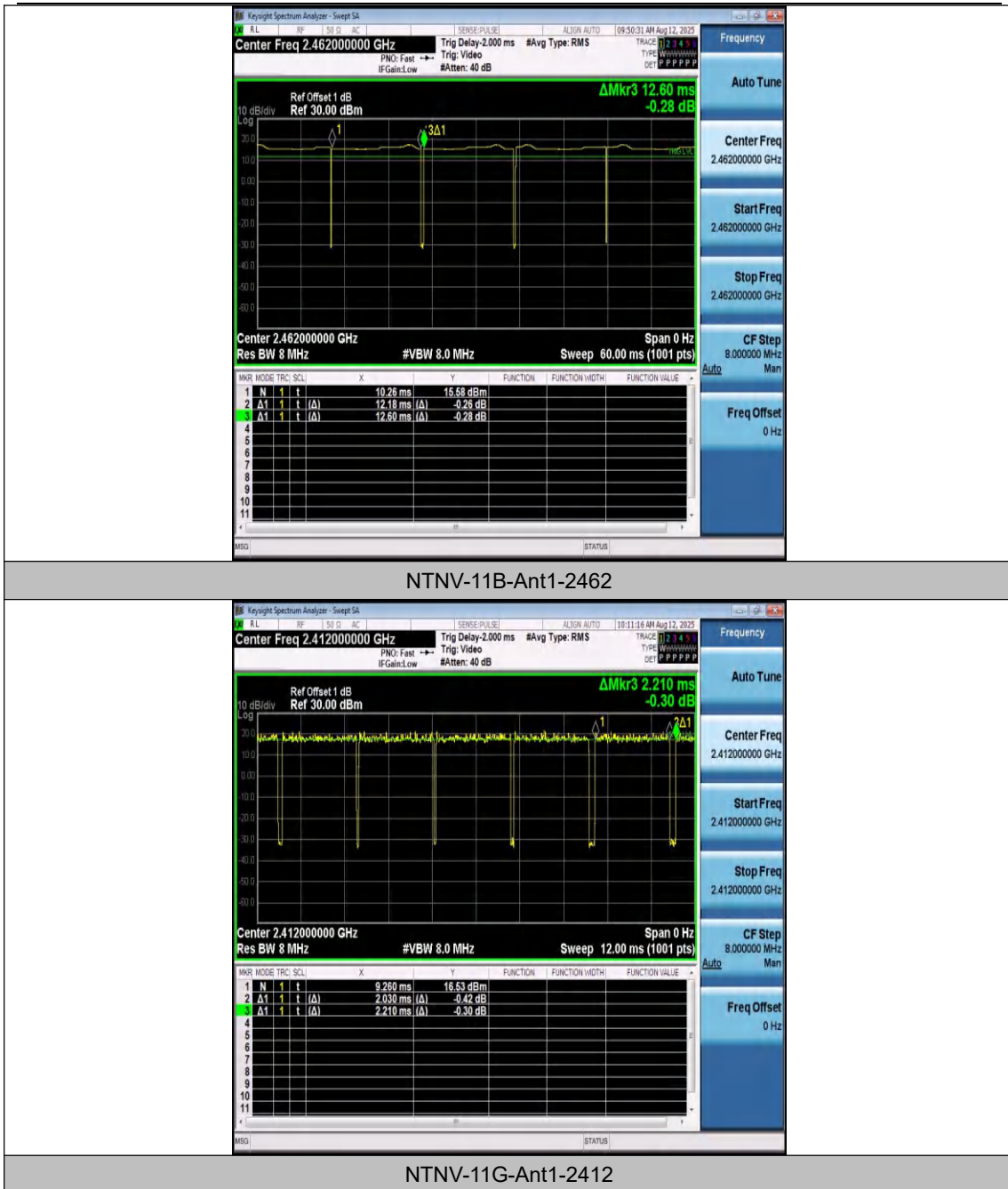
Test Graphs



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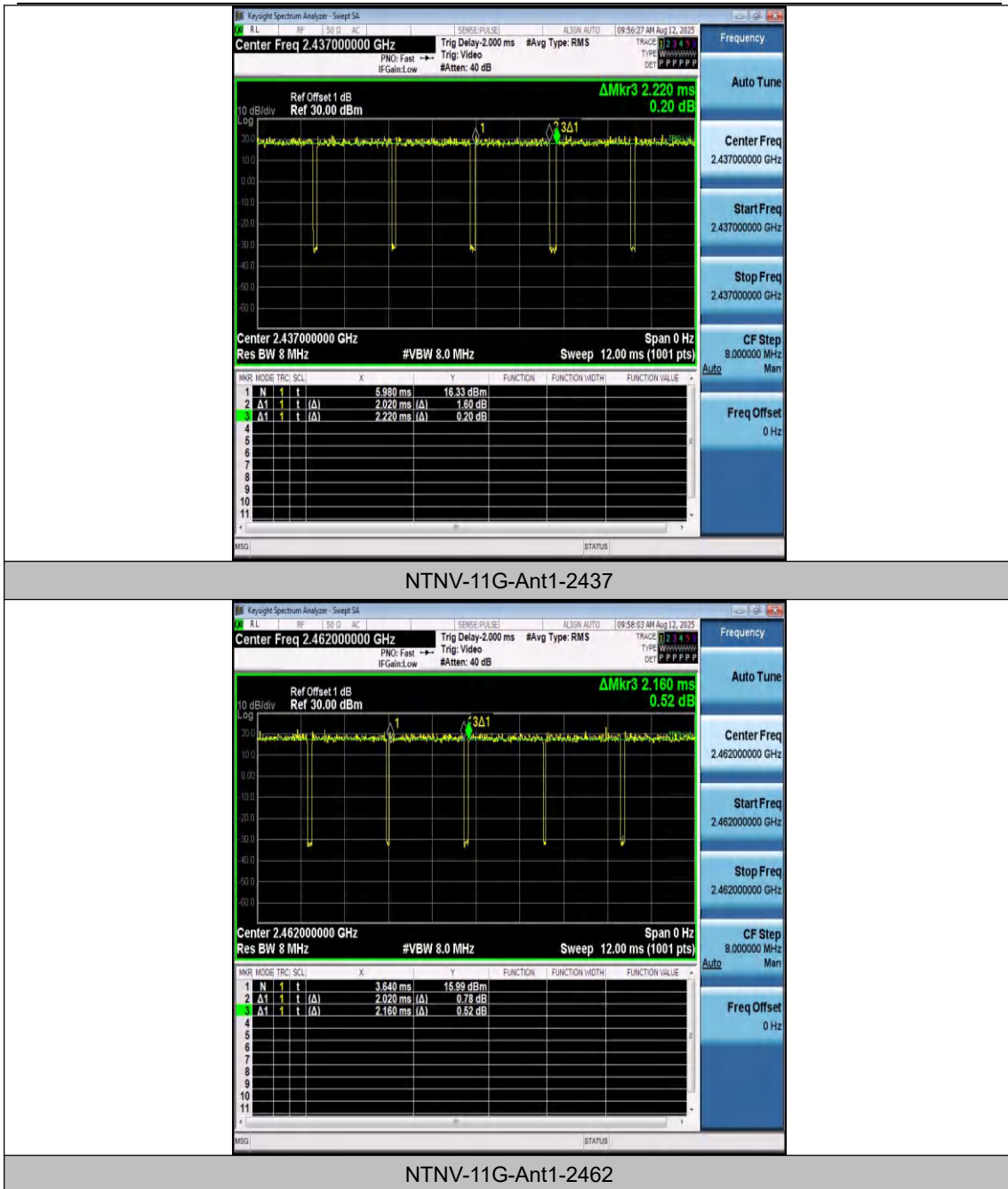
Hotline: 400-003-0500 web: www.anbotek.com E-mail: service@anbotek.com

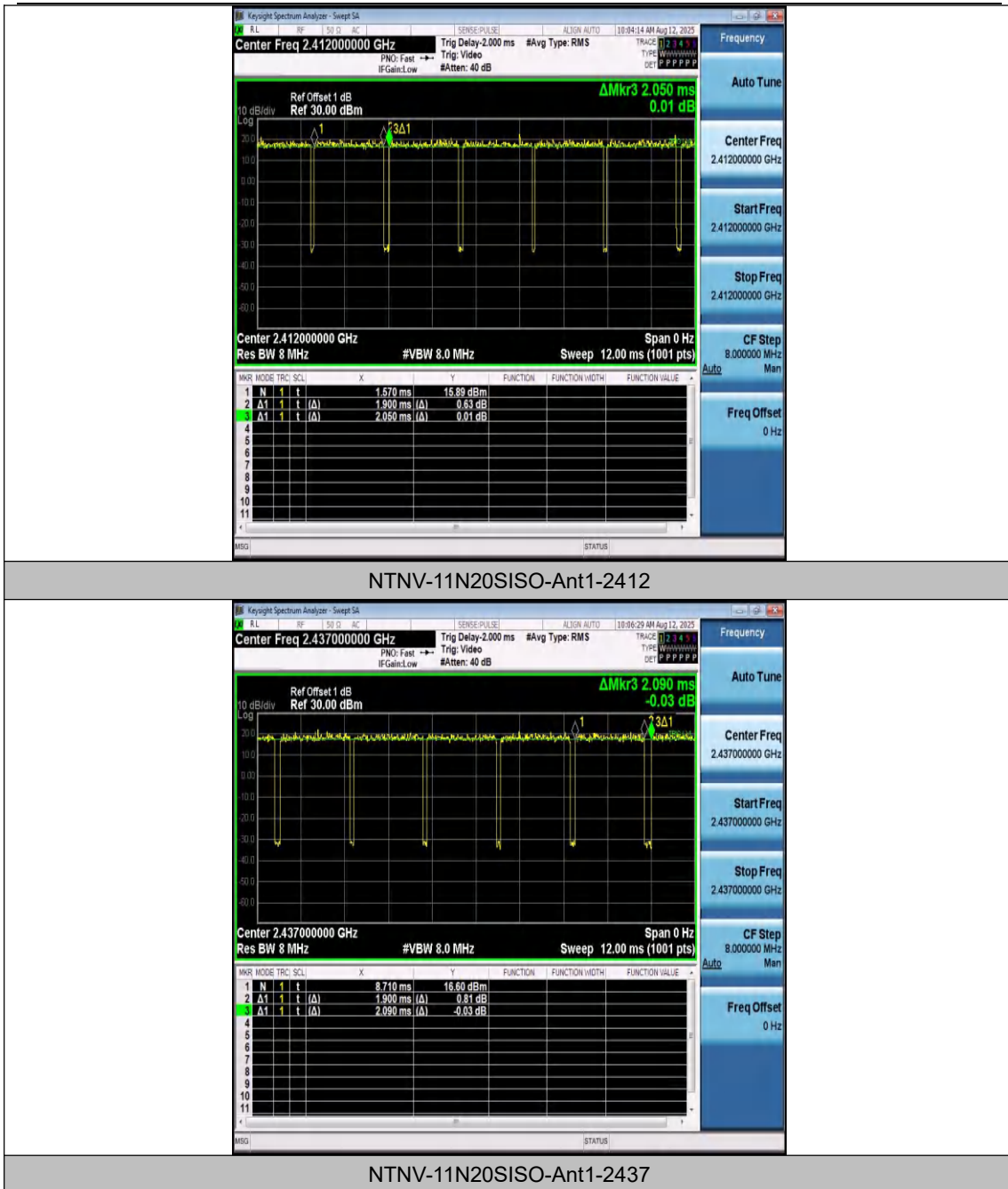


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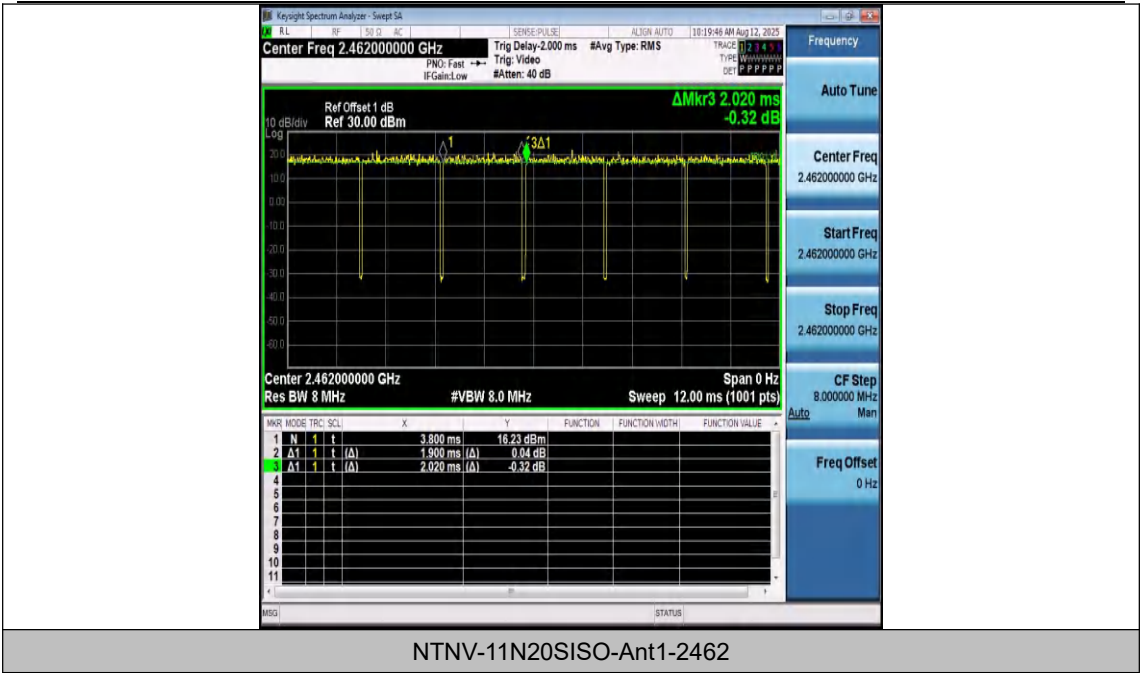




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