

Appendix Test Data

Report No.:	1812C50192012503	Test Sample No.:	1-2-2
Start Test Date:	2025-05-07	Finish Test Date:	2025-05-07
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.7°C	Relative Humidity:	51%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	10.360	2406.840	2417.200	0.5	PASS
11B	Ant1	2412	10.320	2406.880	2417.200	0.5	PASS
11B	Ant0	2437	10.320	2431.880	2442.200	0.5	PASS
11B	Ant1	2437	10.320	2431.880	2442.200	0.5	PASS
11B	Ant0	2462	10.320	2456.880	2467.200	0.5	PASS
11B	Ant1	2462	10.280	2456.880	2467.160	0.5	PASS
11G	Ant0	2412	15.200	2404.560	2419.760	0.5	PASS
11G	Ant1	2412	15.320	2404.440	2419.760	0.5	PASS
11G	Ant0	2437	15.160	2429.520	2444.680	0.5	PASS
11G	Ant1	2437	15.160	2429.520	2444.680	0.5	PASS
11G	Ant0	2462	14.920	2454.760	2469.680	0.5	PASS
11G	Ant1	2462	15.240	2454.560	2469.800	0.5	PASS
11N20MIMO	Ant0	2412	16.040	2404.040	2420.080	0.5	PASS
11N20MIMO	Ant1	2412	16.000	2403.880	2419.880	0.5	PASS
11N20MIMO	Ant0	2437	15.720	2429.160	2444.880	0.5	PASS
11N20MIMO	Ant1	2437	15.920	2428.880	2444.800	0.5	PASS
11N20MIMO	Ant0	2462	15.960	2453.840	2469.800	0.5	PASS
11N20MIMO	Ant1	2462	15.840	2454.000	2469.840	0.5	PASS
11N40MIMO	Ant0	2422	32.160	2404.960	2437.120	0.5	PASS
11N40MIMO	Ant1	2422	33.200	2404.640	2437.840	0.5	PASS
11N40MIMO	Ant0	2437	33.680	2419.880	2453.560	0.5	PASS
11N40MIMO	Ant1	2437	34.240	2419.640	2453.880	0.5	PASS
11N40MIMO	Ant0	2452	35.280	2434.400	2469.680	0.5	PASS



11N40MIMO	Ant1	2452	33.520	2434.960	2468.480	0.5	PASS
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Tel:(86)0755-26066440 Email:service@anbotek.com



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Test Graphs



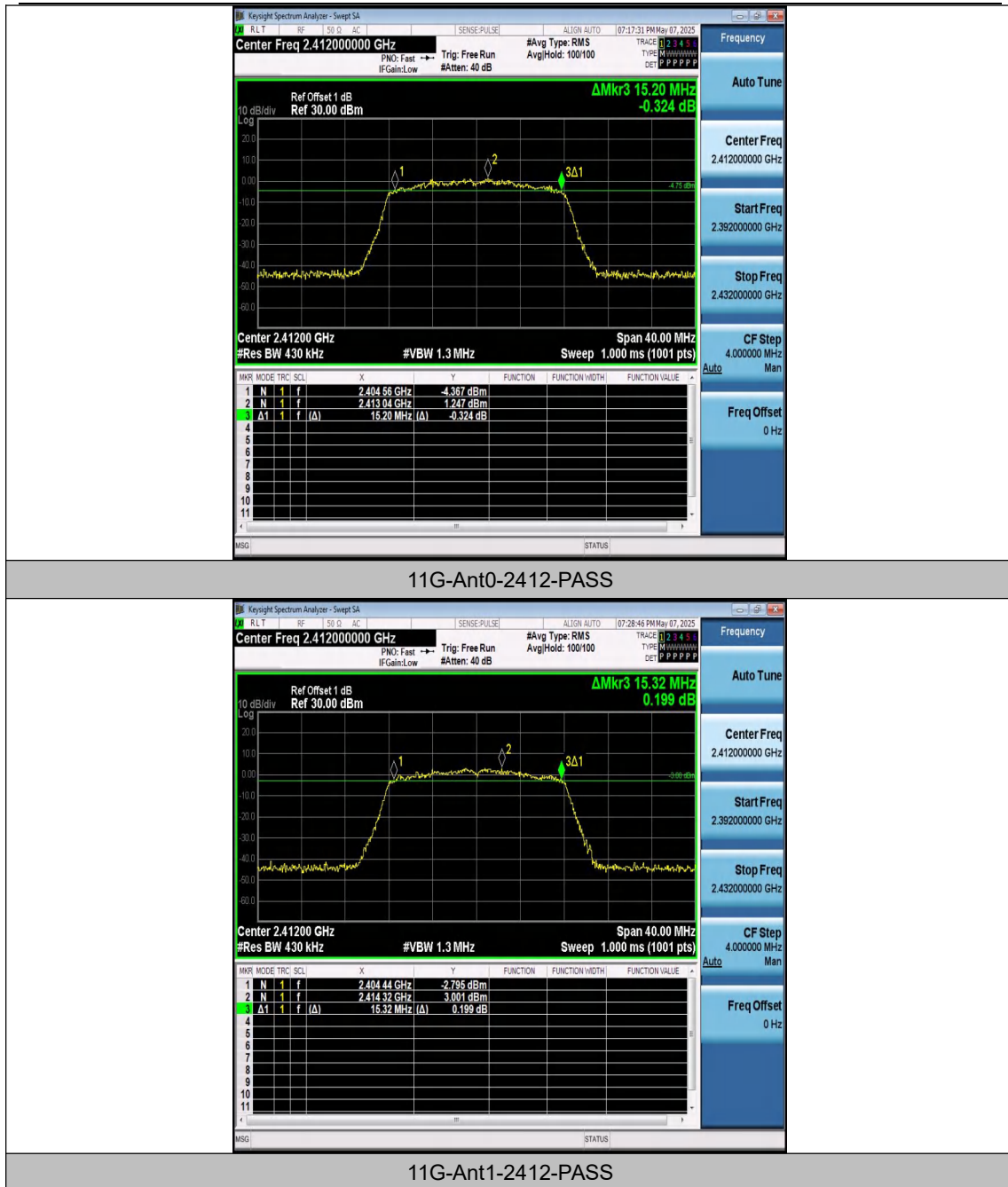
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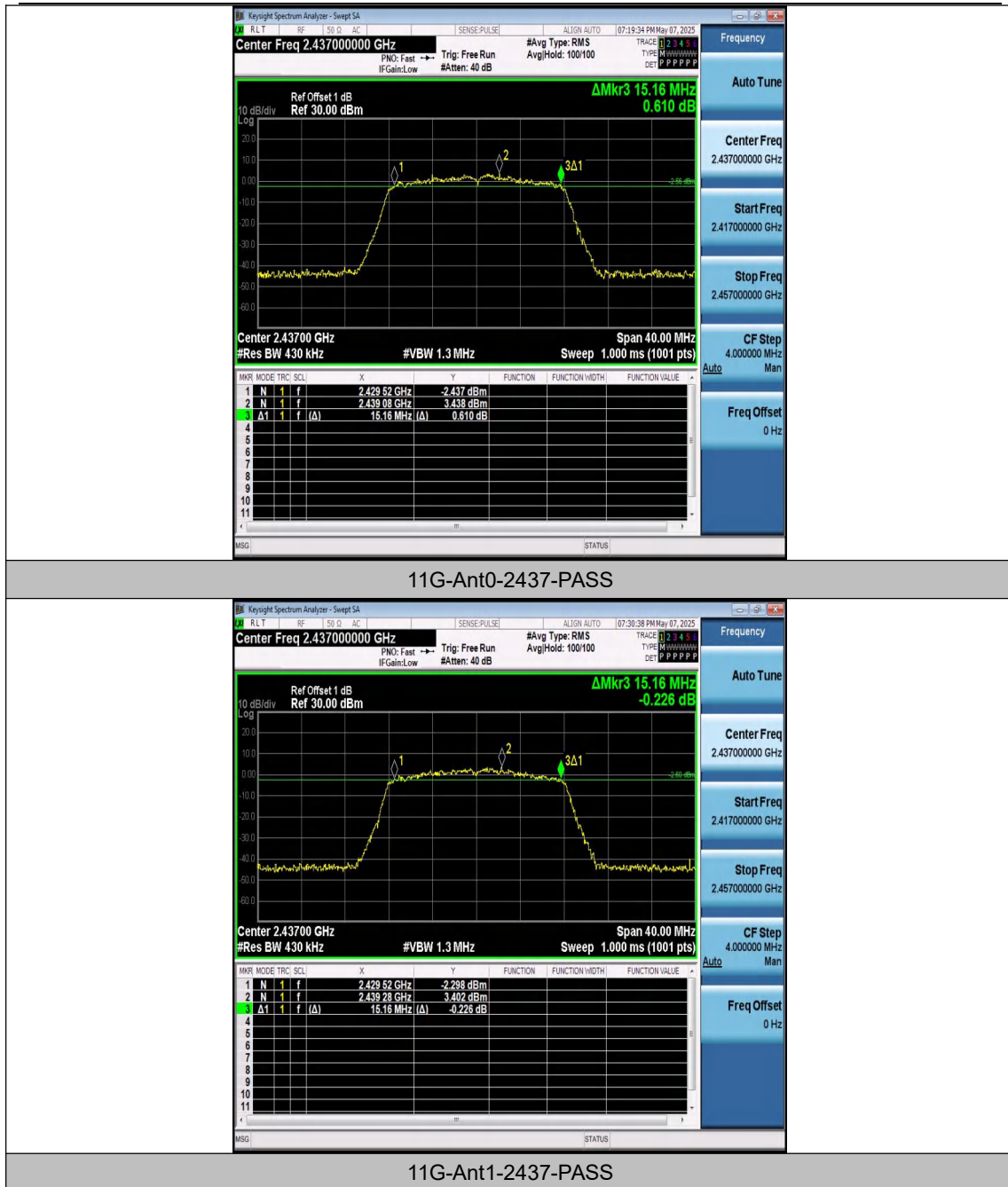
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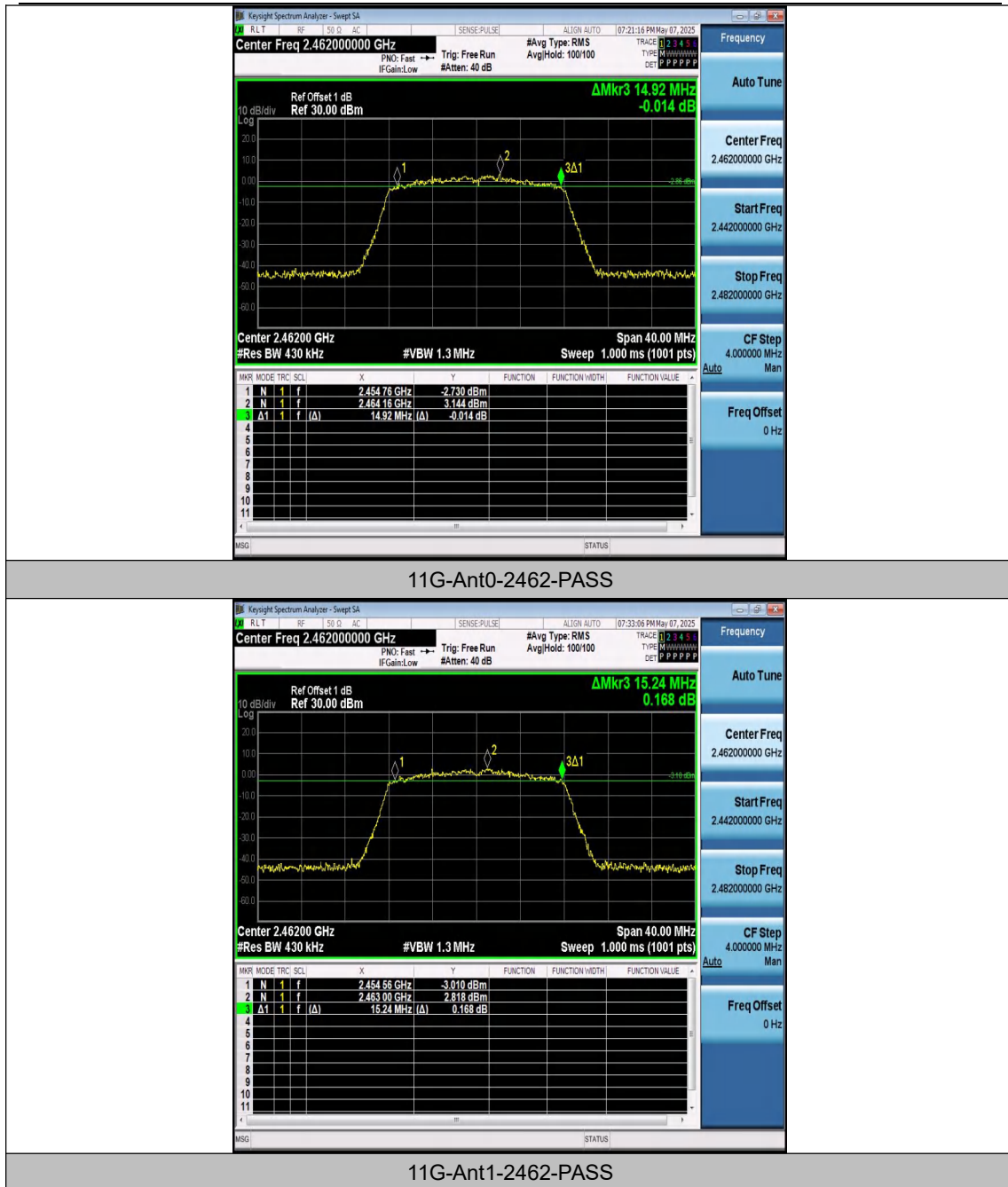
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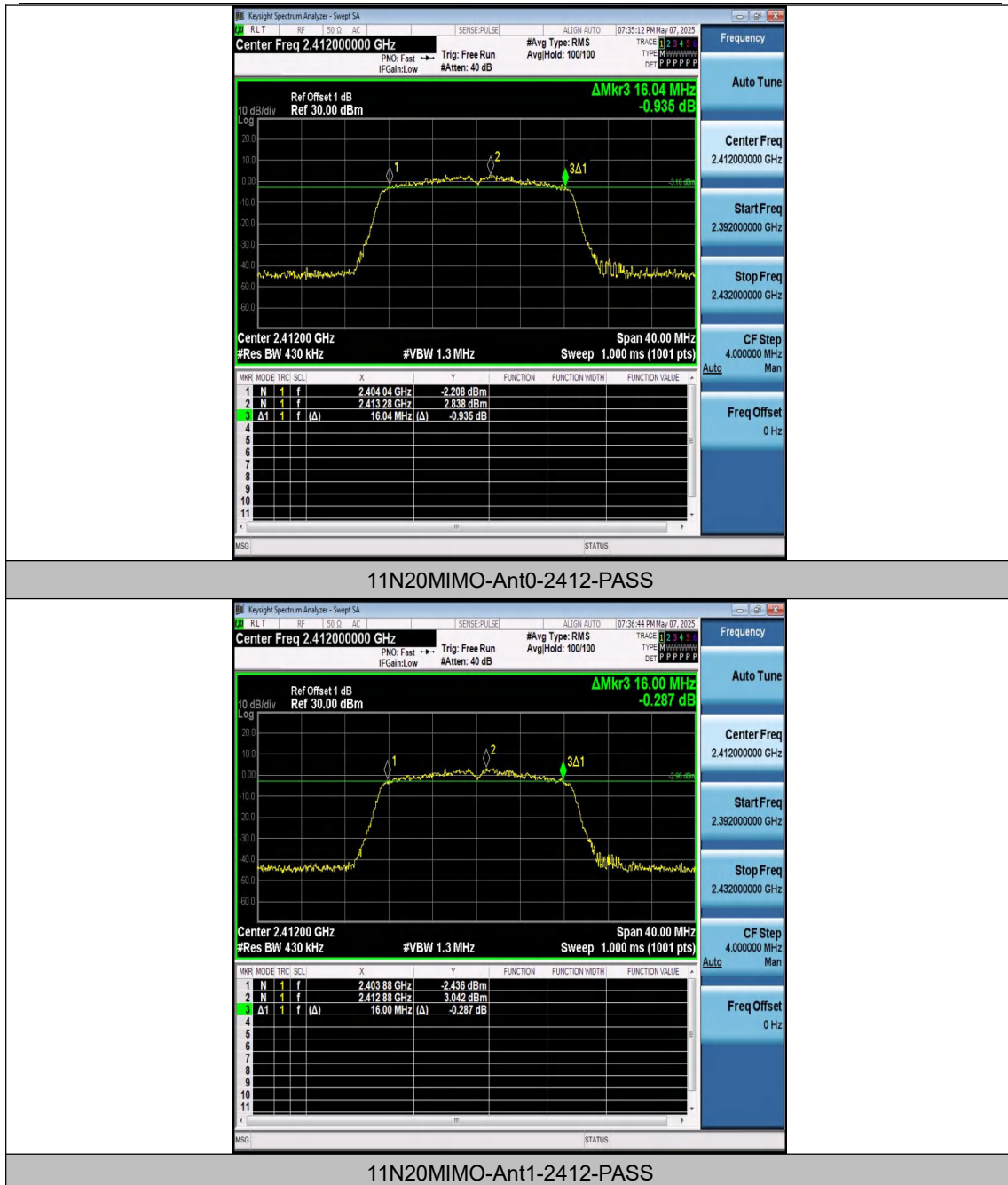


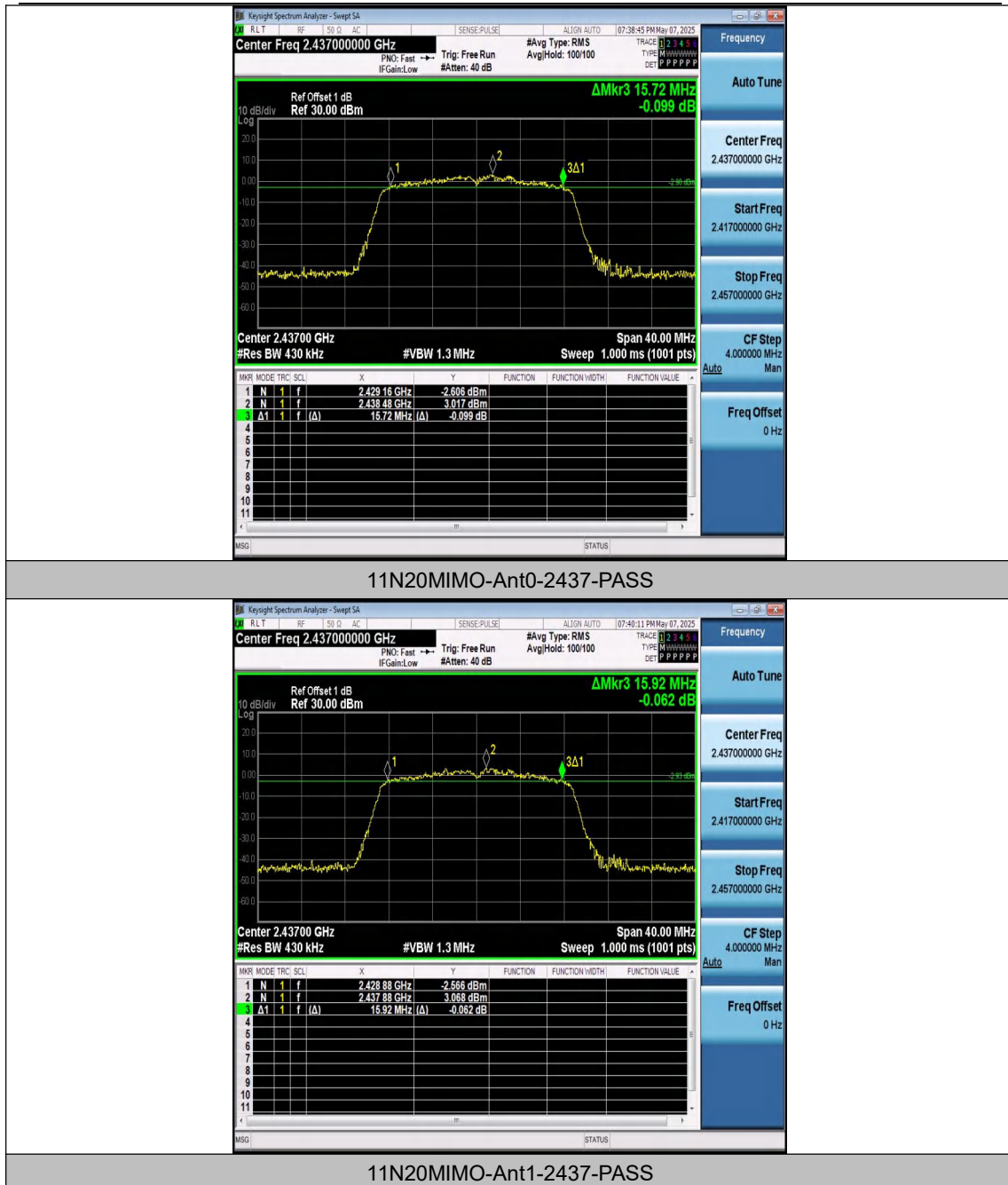


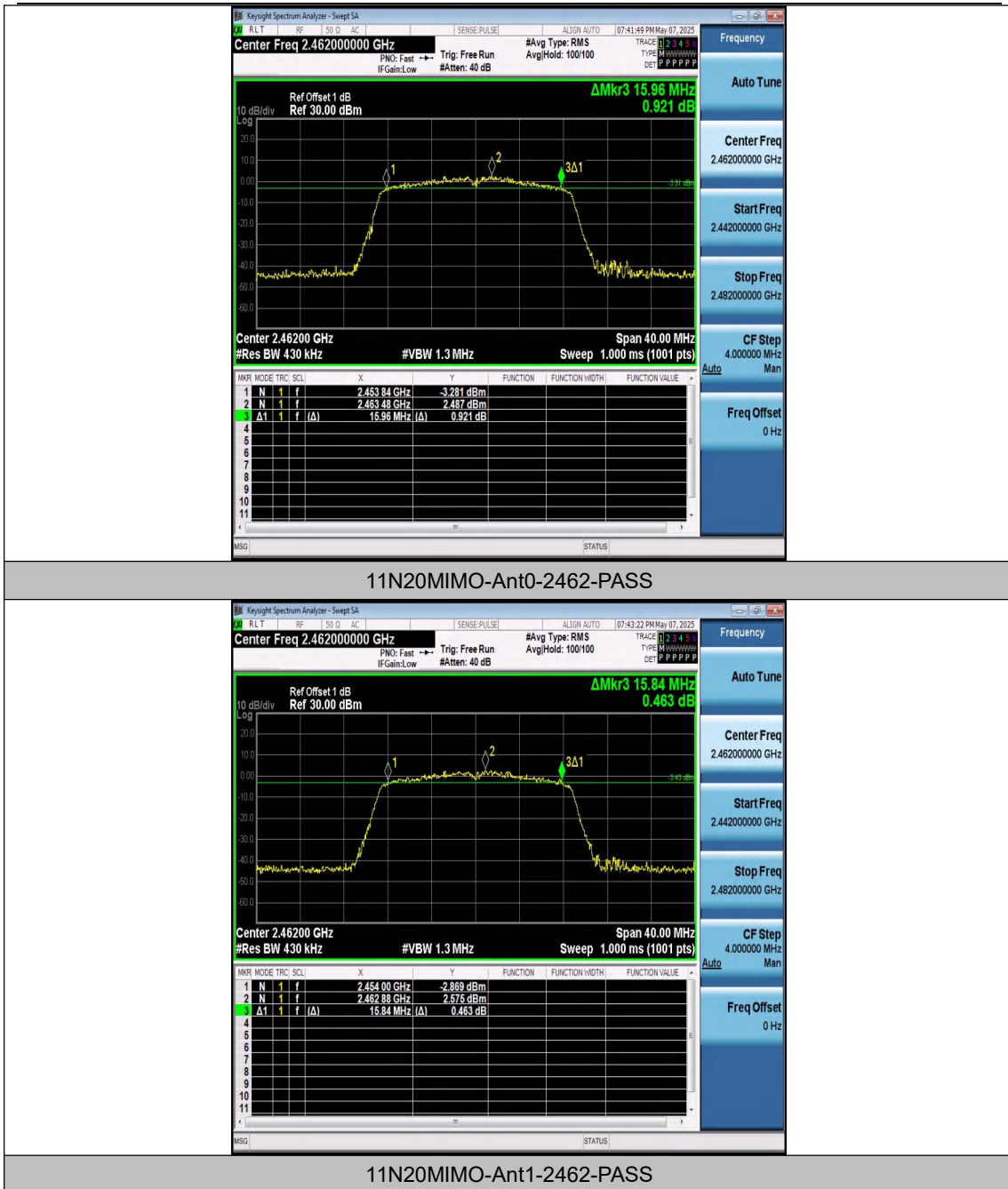








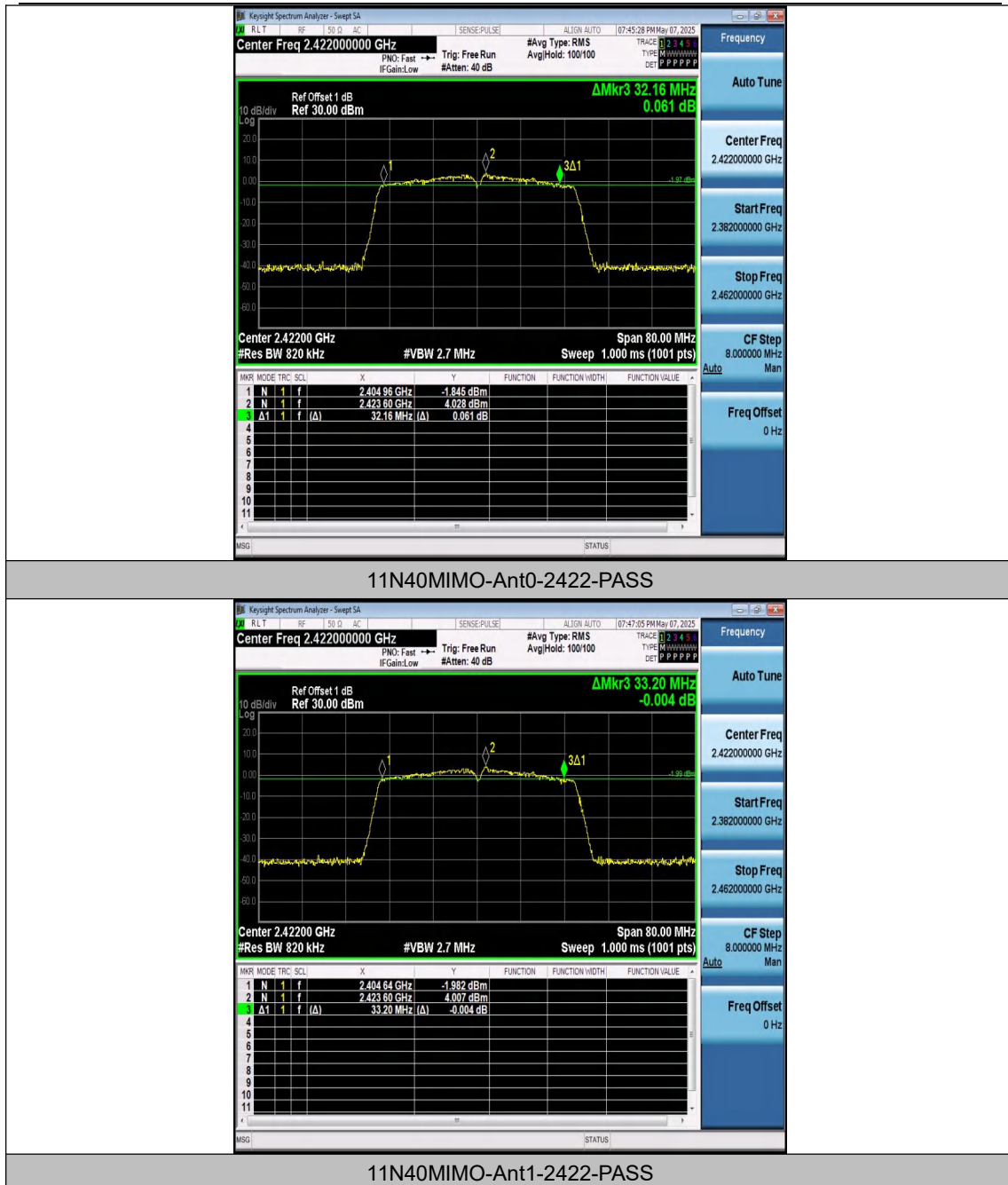




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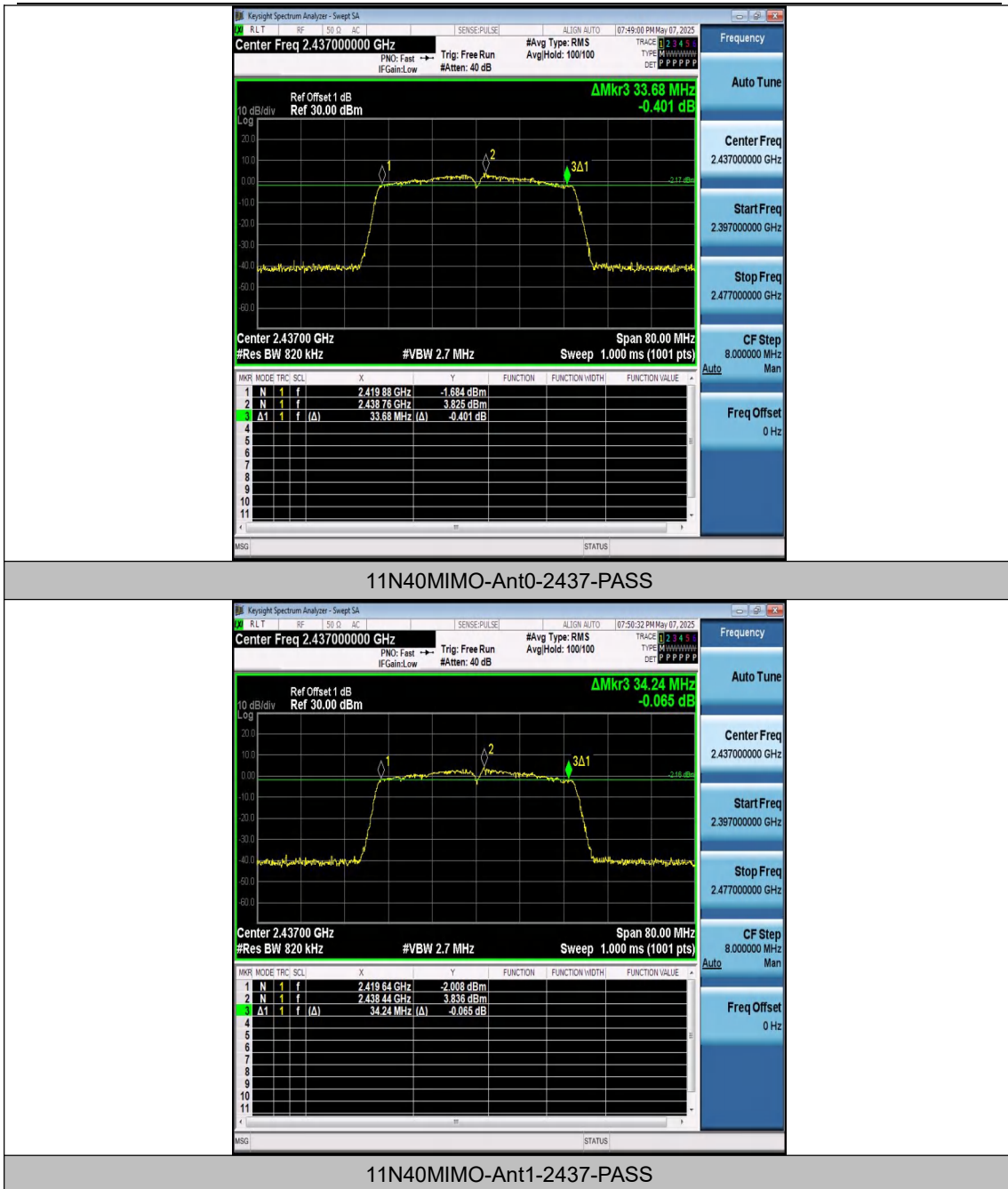
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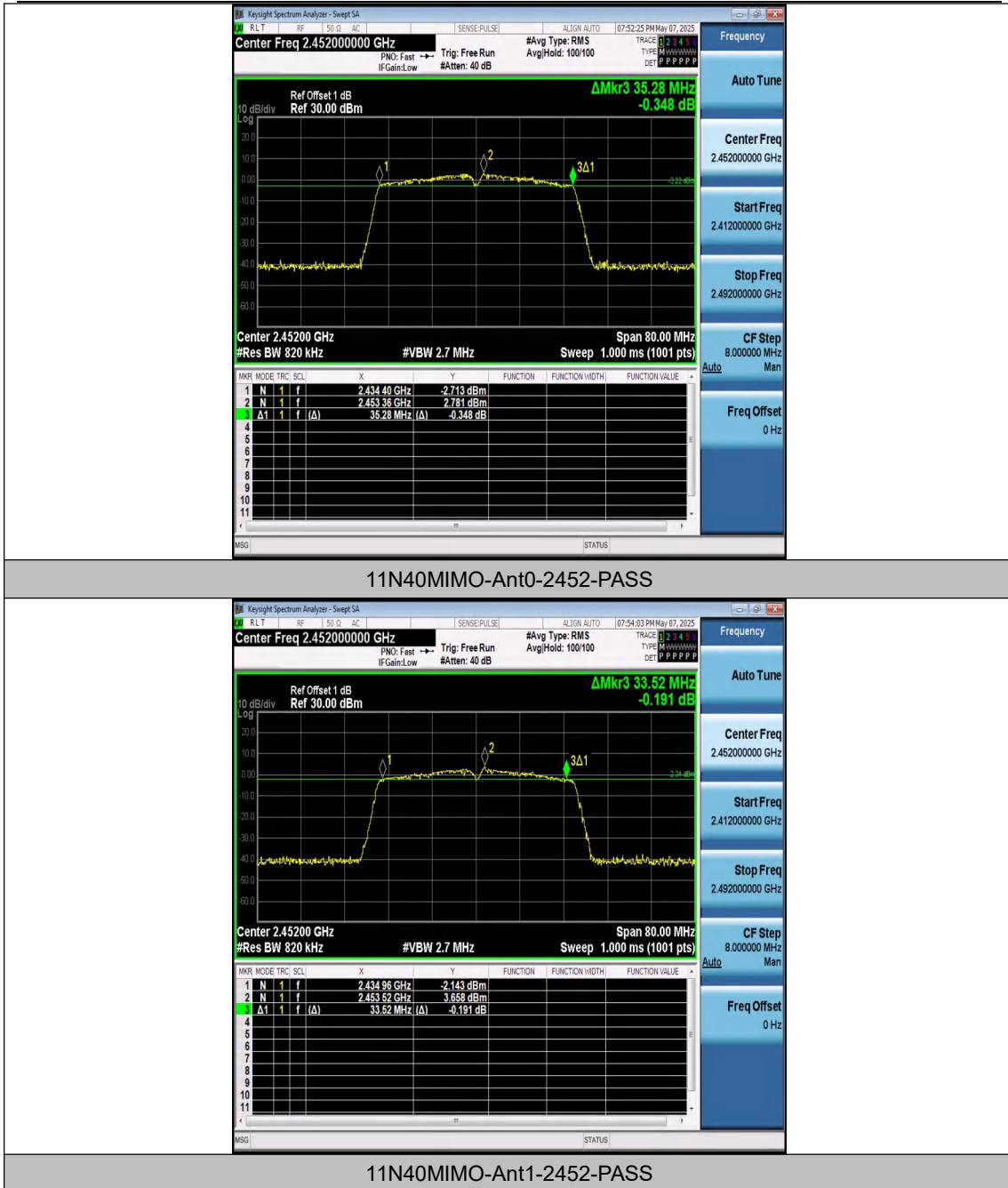
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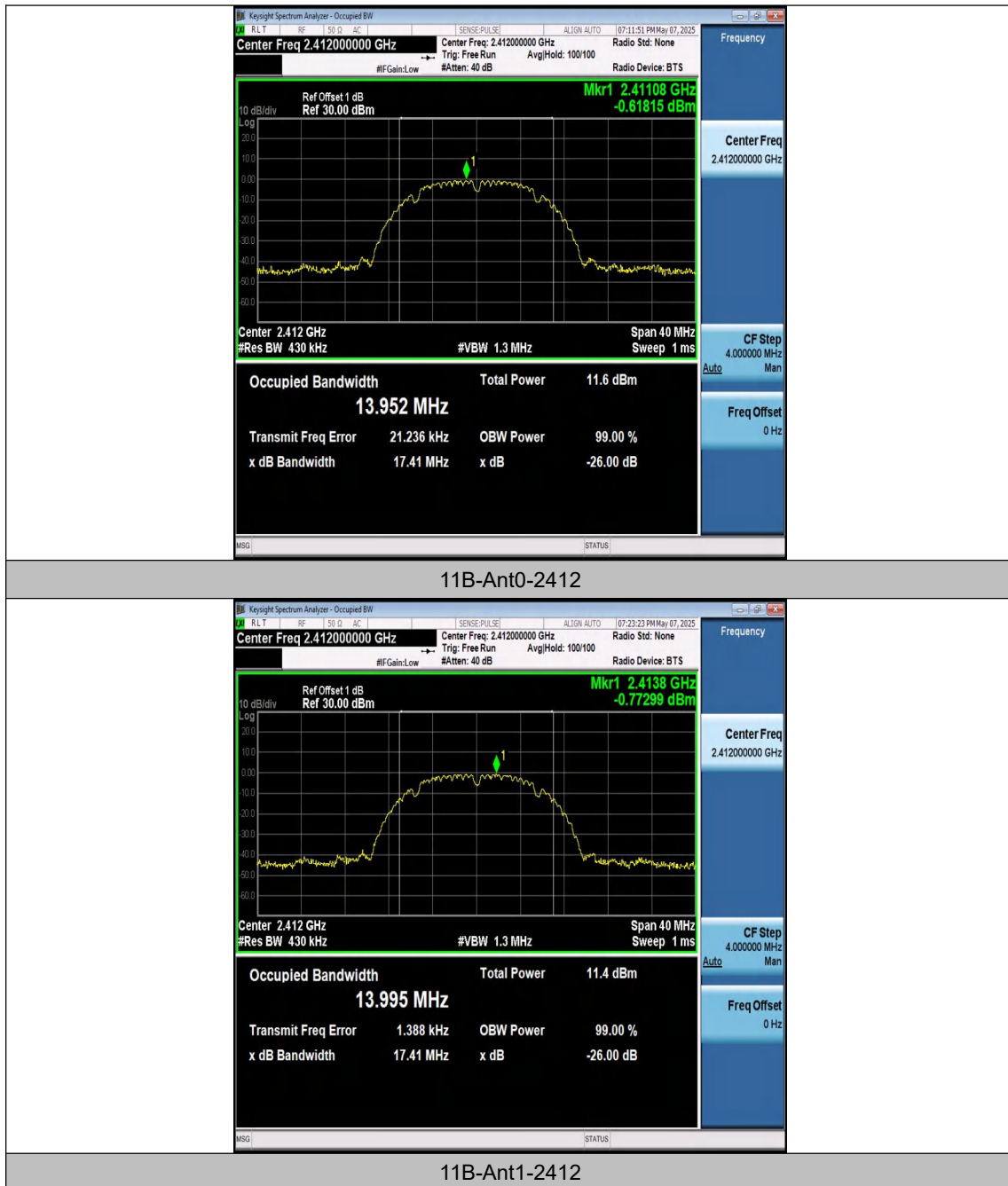


Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	13.952	2405.0452	2418.9972	---	---
11B	Ant1	2412	13.995	2405.0039	2418.9989	---	---
11B	Ant0	2437	13.974	2430.0133	2443.9873	---	---
11B	Ant1	2437	13.981	2430.0351	2444.0161	---	---
11B	Ant0	2462	13.926	2455.0282	2468.9542	---	---
11B	Ant1	2462	13.981	2455.0207	2469.0017	---	---
11G	Ant0	2412	16.207	2403.9309	2420.1379	---	---
11G	Ant1	2412	16.200	2403.9327	2420.1327	---	---
11G	Ant0	2437	16.194	2428.9351	2445.1291	---	---
11G	Ant1	2437	16.238	2428.9229	2445.1609	---	---
11G	Ant0	2462	16.207	2453.9347	2470.1417	---	---
11G	Ant1	2462	16.208	2453.9302	2470.1382	---	---
11N20MIMO	Ant0	2412	17.319	2403.3643	2420.6833	---	---
11N20MIMO	Ant1	2412	17.331	2403.3429	2420.6739	---	---
11N20MIMO	Ant0	2437	17.300	2428.3662	2445.6662	---	---
11N20MIMO	Ant1	2437	17.329	2428.3422	2445.6712	---	---
11N20MIMO	Ant0	2462	17.321	2453.3605	2470.6815	---	---
11N20MIMO	Ant1	2462	17.318	2453.3510	2470.6690	---	---
11N40MIMO	Ant0	2422	35.705	2404.2023	2439.9073	---	---
11N40MIMO	Ant1	2422	35.712	2404.2099	2439.9219	---	---
11N40MIMO	Ant0	2437	35.687	2419.2043	2454.8913	---	---
11N40MIMO	Ant1	2437	35.745	2419.1839	2454.9289	---	---
11N40MIMO	Ant0	2452	35.727	2434.1946	2469.9216	---	---
11N40MIMO	Ant1	2452	35.703	2434.2055	2469.9085	---	---

Test Graphs

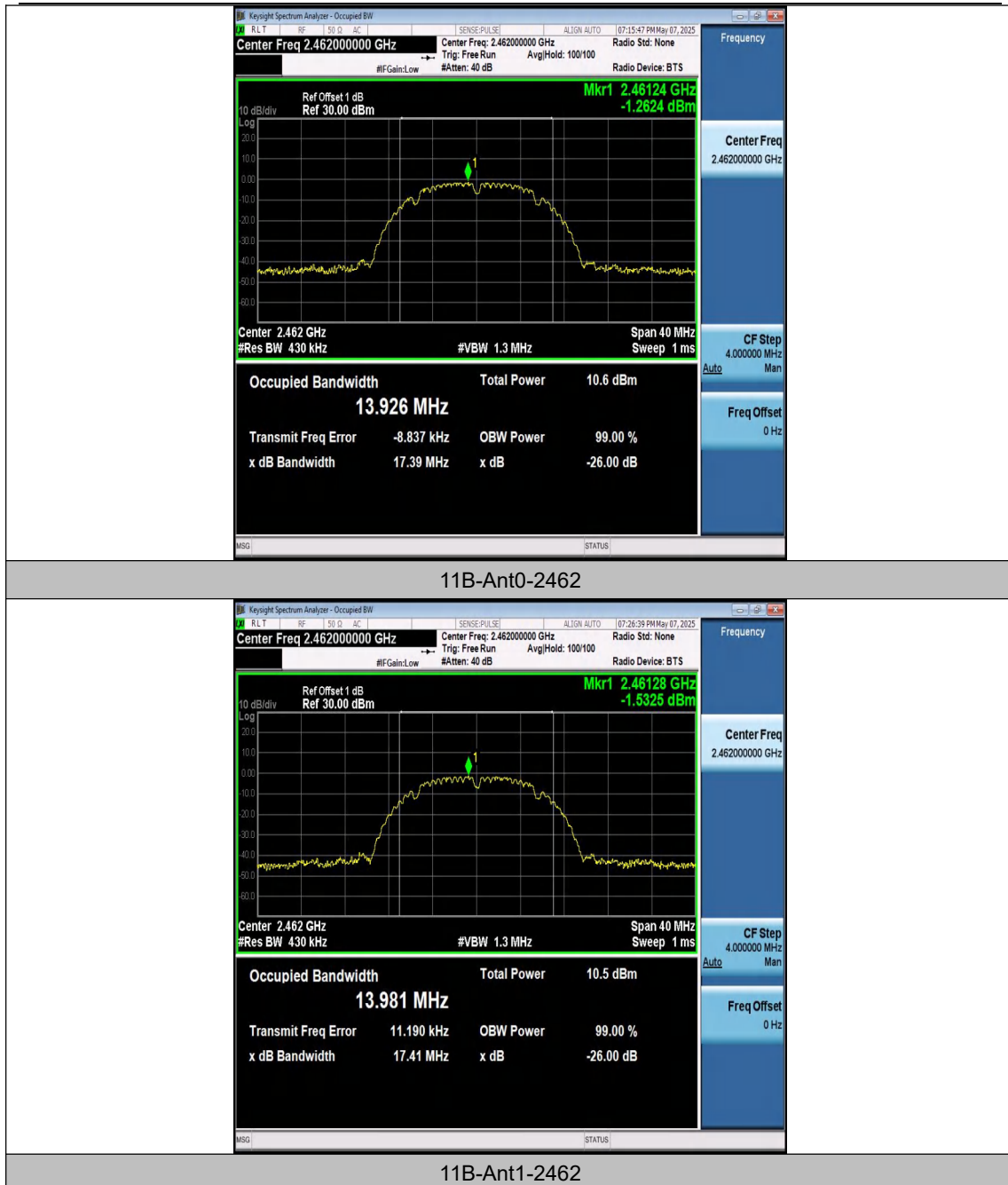


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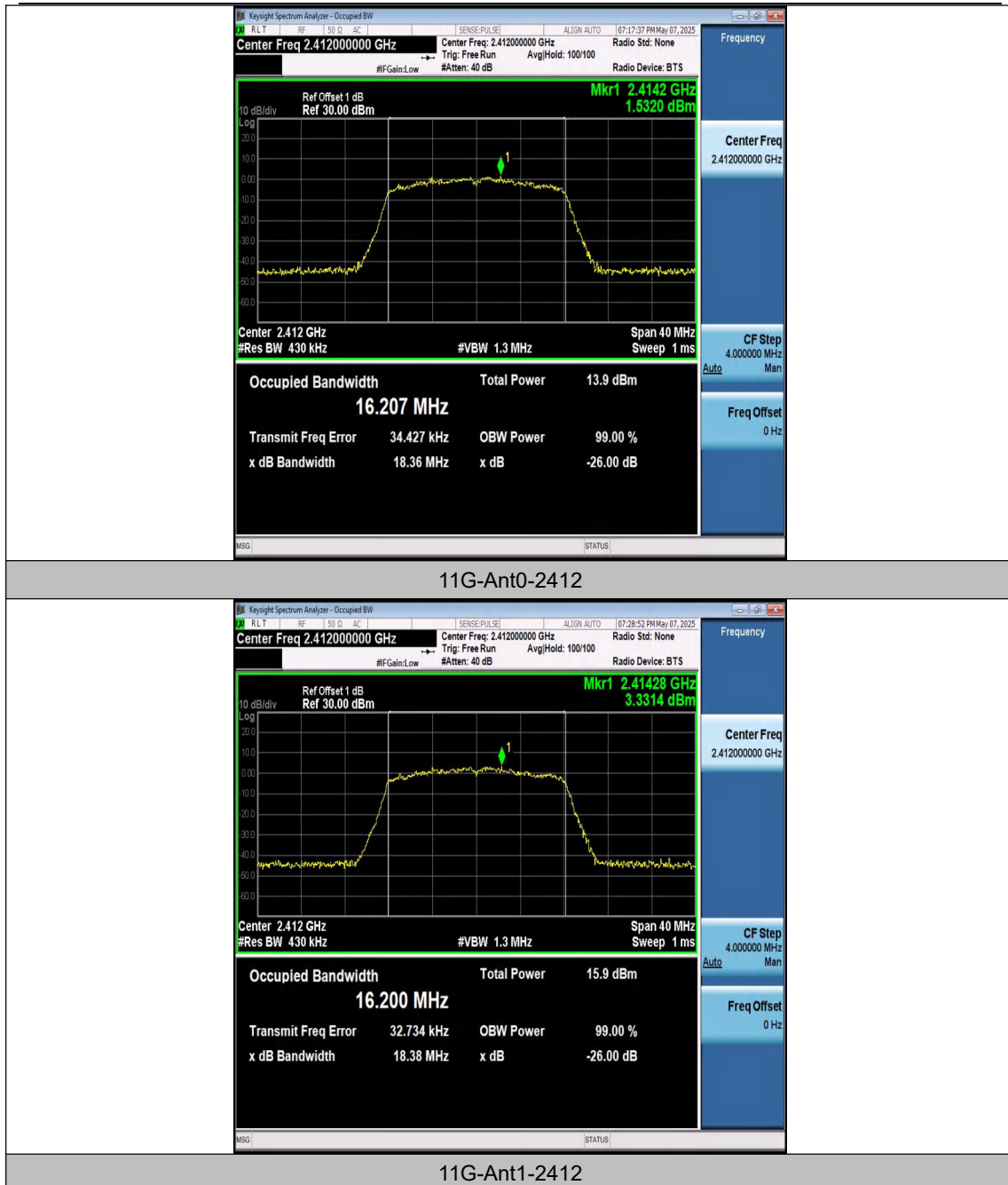


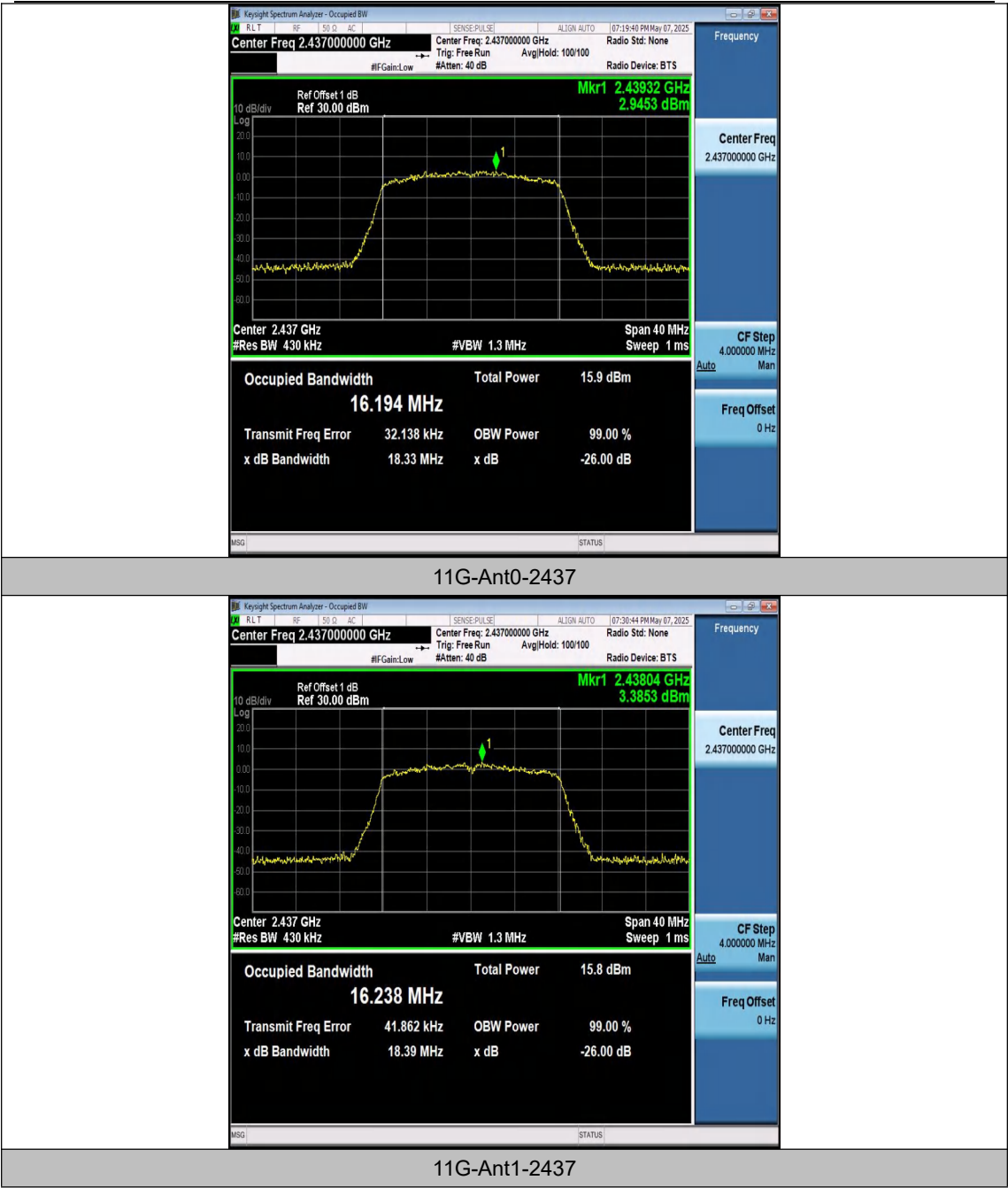
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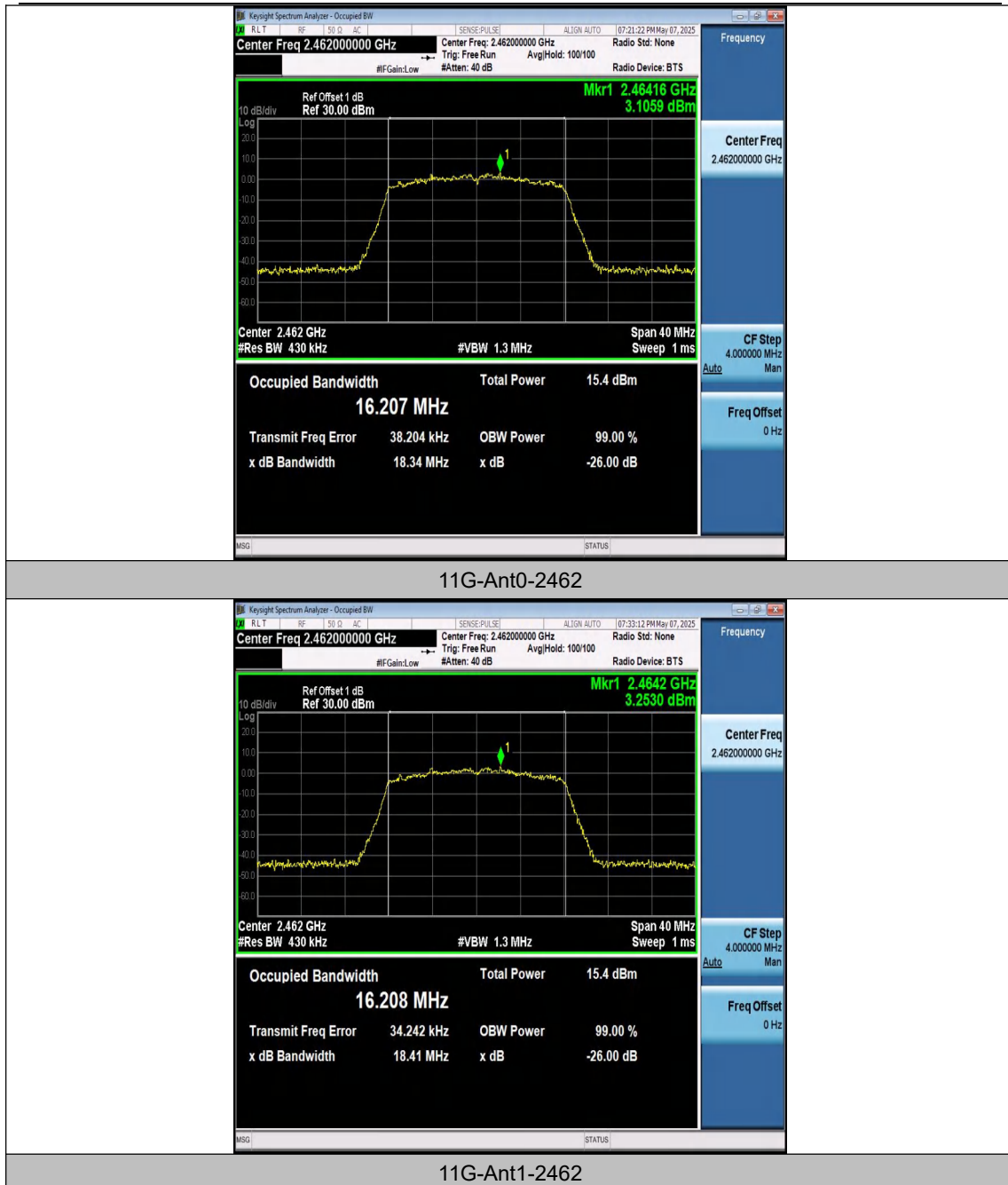
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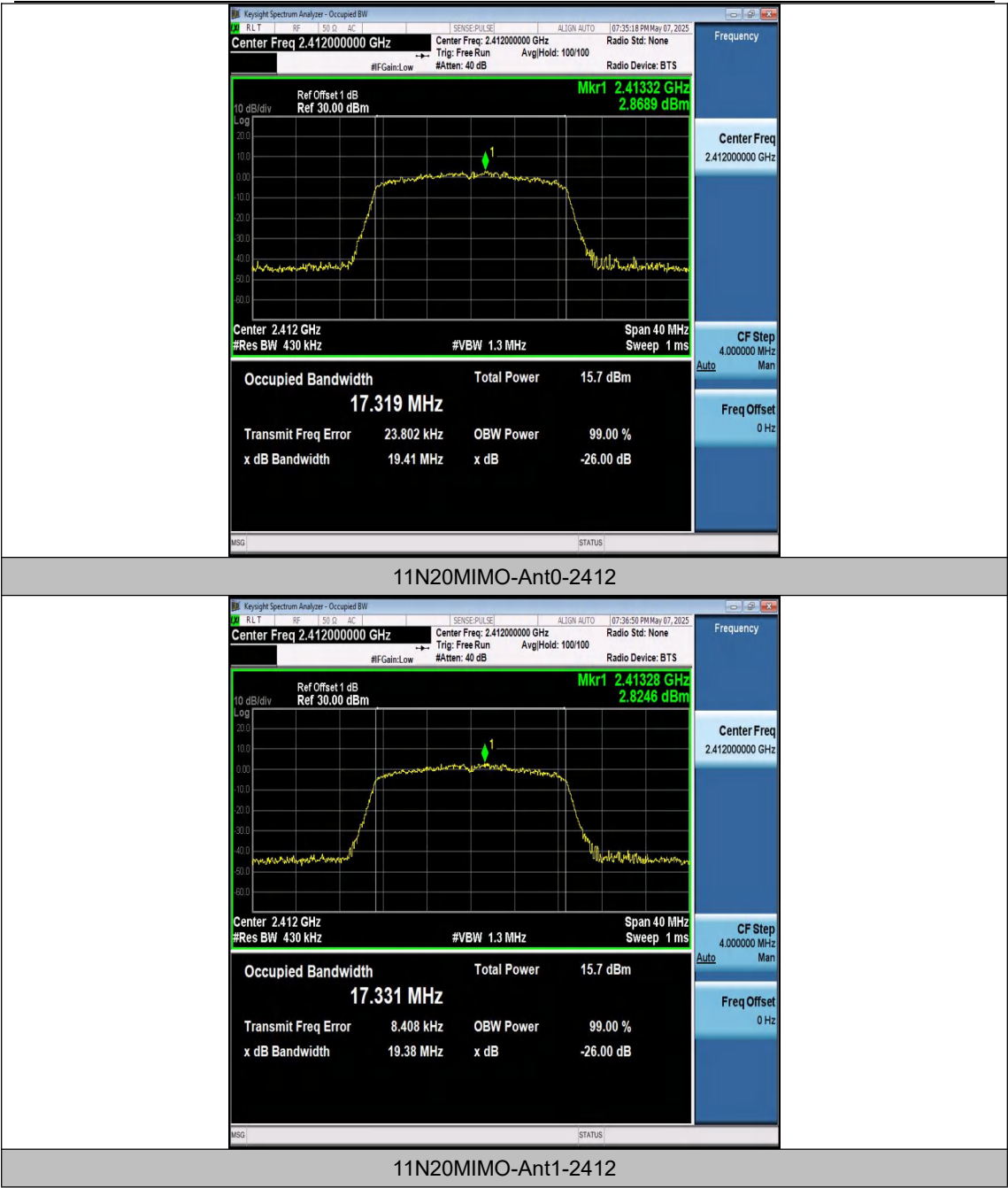


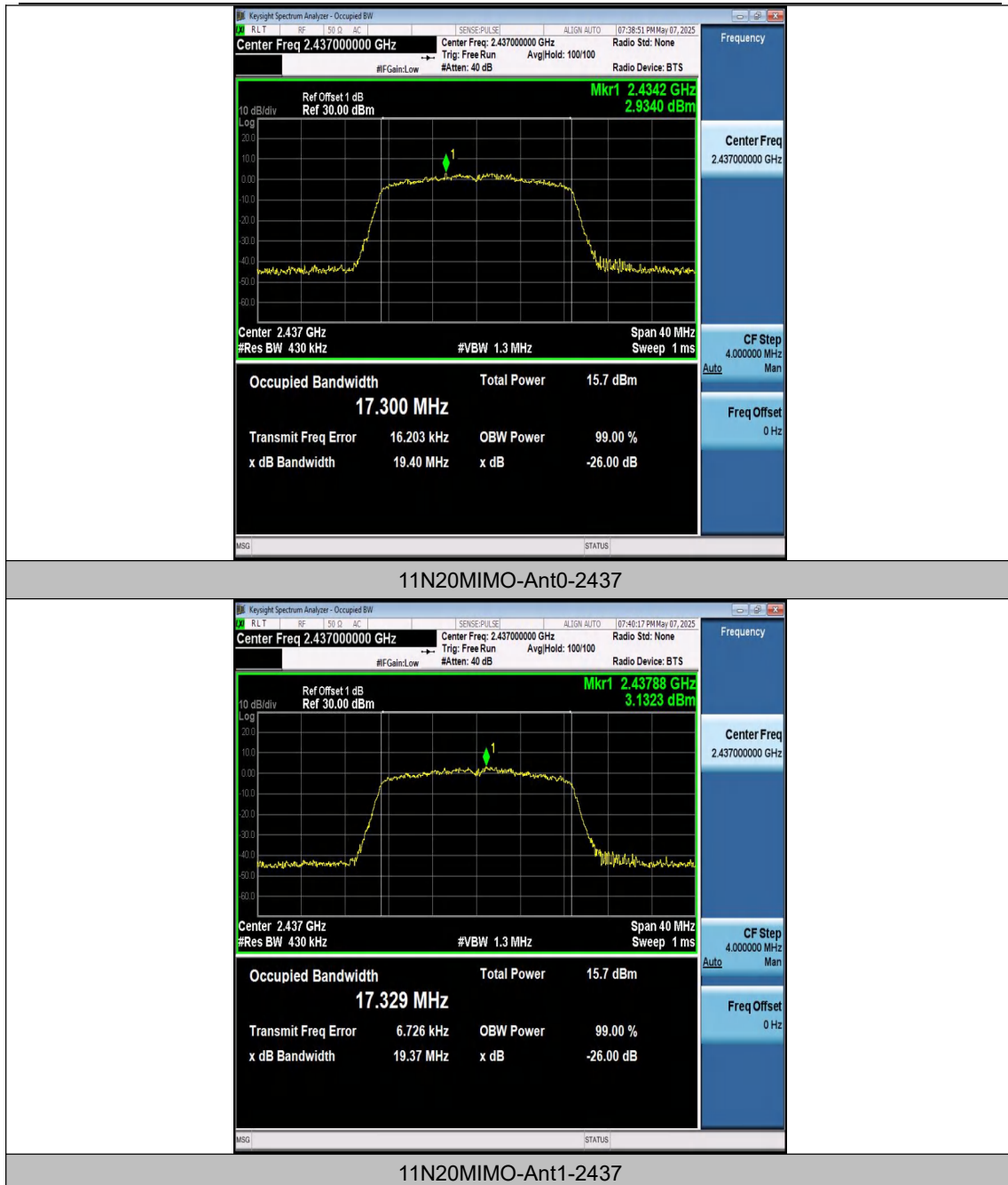
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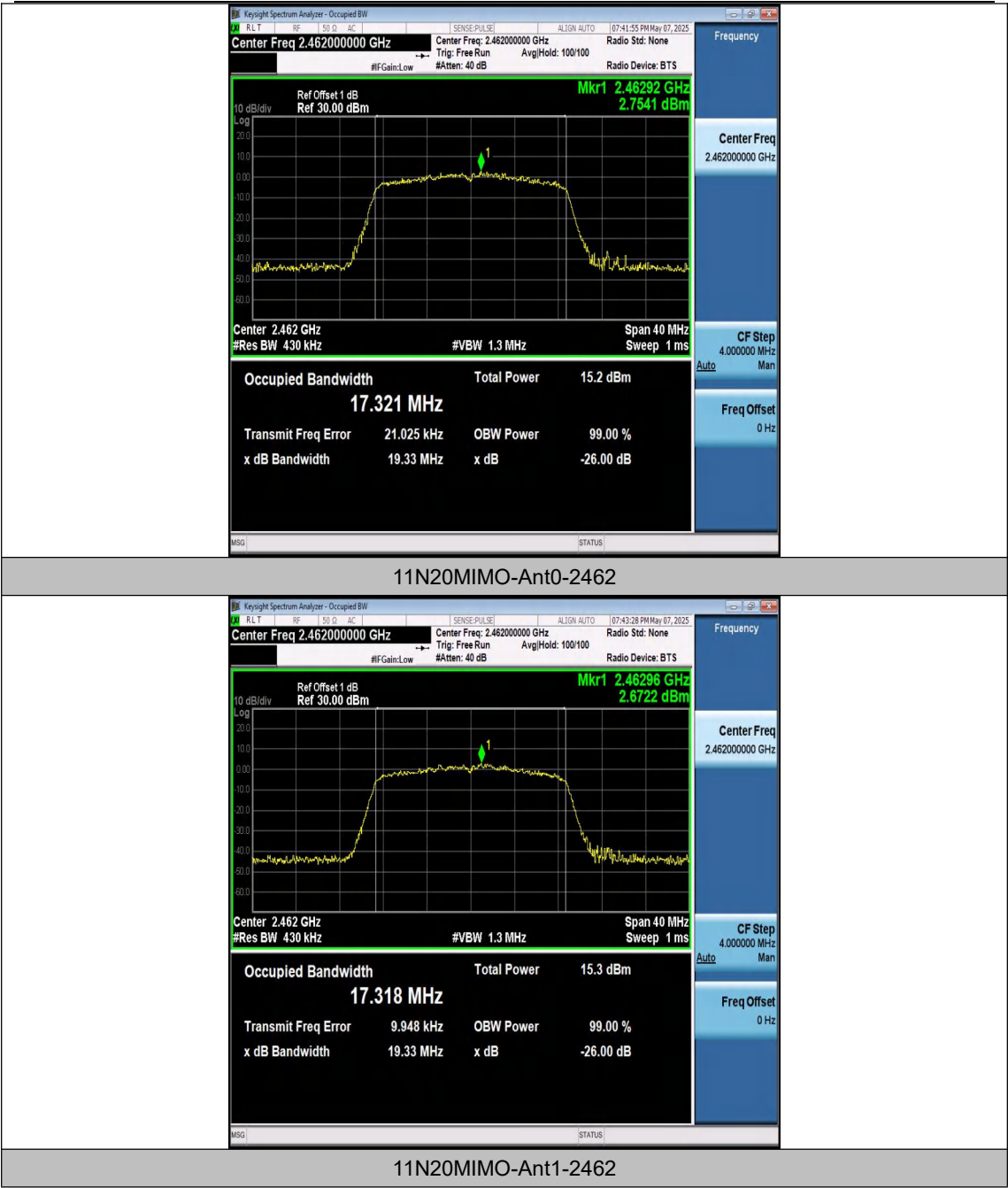


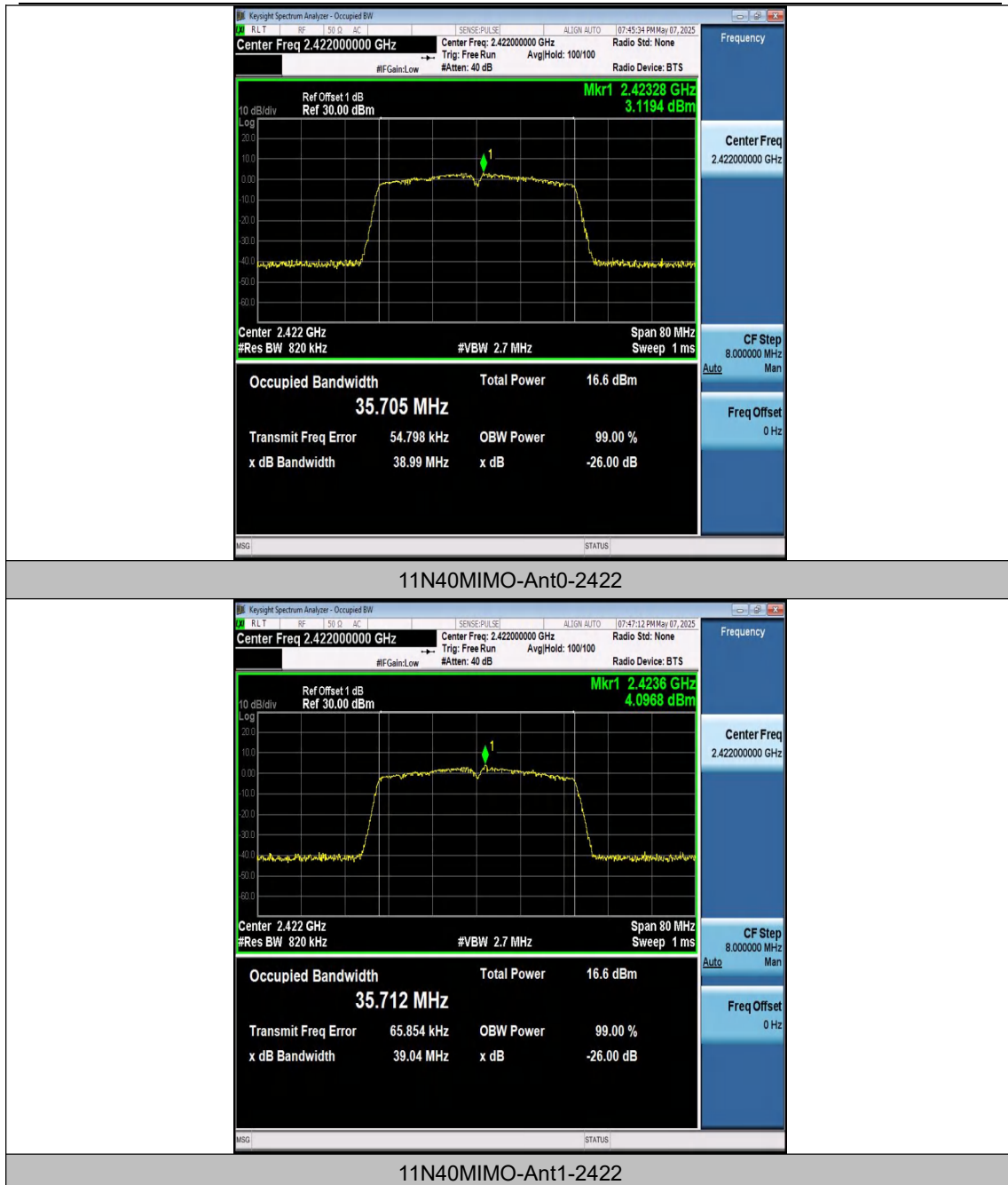


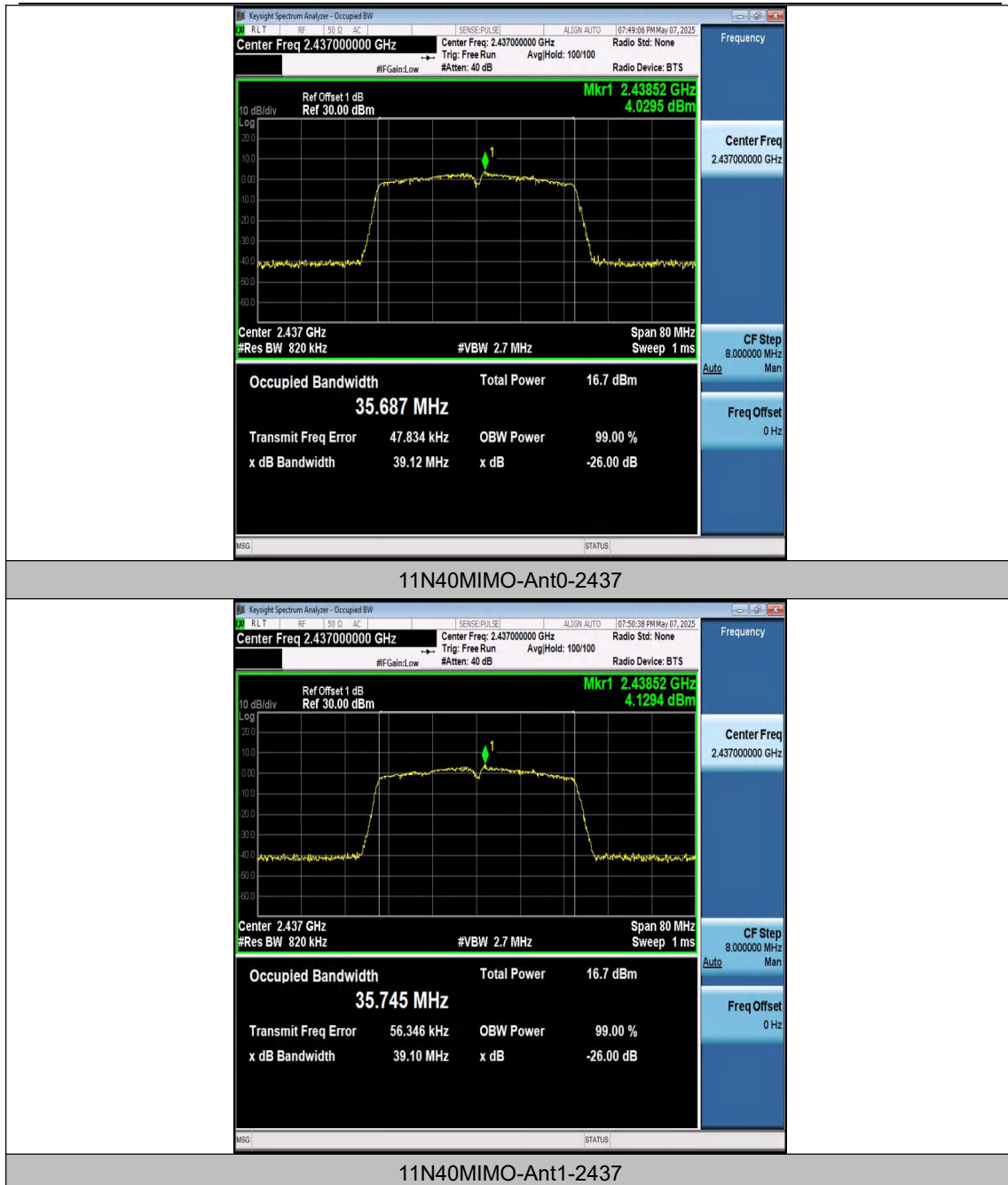










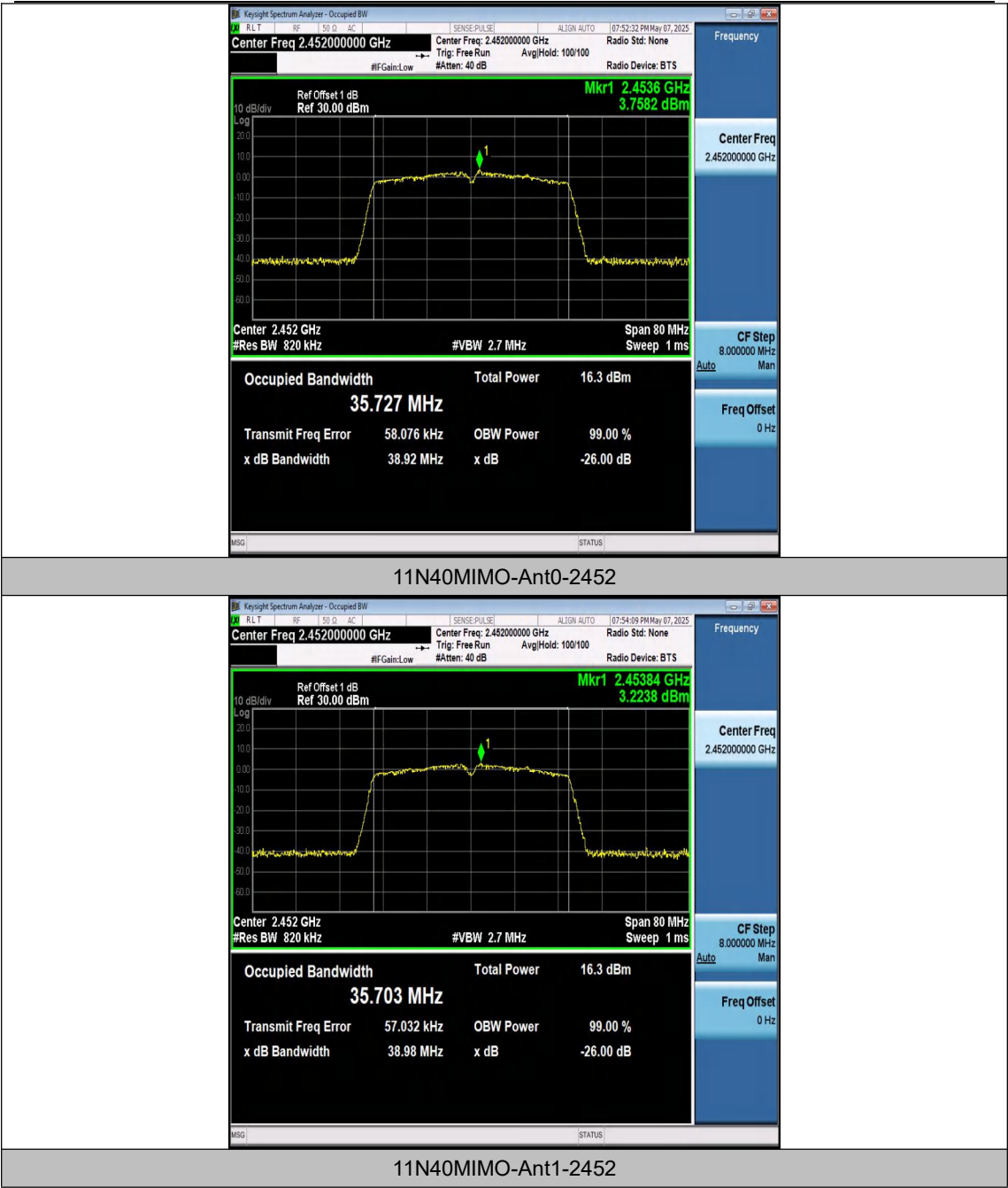


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Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	8.39	100.00	0.00	8.39	≤30.0 0	PASS
11B	Ant1	2412	8.26	100.00	0.00	8.26	≤30.0 0	PASS
11B	Ant0	2437	8.06	100.00	0.00	8.06	≤30.0 0	PASS
11B	Ant1	2437	8.01	100.00	0.00	8.01	≤30.0 0	PASS
11B	Ant0	2462	7.32	100.00	0.00	7.32	≤30.0 0	PASS
11B	Ant1	2462	7.34	100.00	0.00	7.34	≤30.0 0	PASS
11G	Ant0	2412	9.87	100.00	0.00	9.87	≤30.0 0	PASS
11G	Ant1	2412	9.89	100.00	0.00	9.89	≤30.0 0	PASS
11G	Ant0	2437	9.88	100.00	0.00	9.88	≤30.0 0	PASS
11G	Ant1	2437	9.85	100.00	0.00	9.85	≤30.0 0	PASS
11G	Ant0	2462	9.37	100.00	0.00	9.37	≤30.0 0	PASS
11G	Ant1	2462	9.38	100.00	0.00	9.38	≤30.0 0	PASS
11N20MI MO	Ant0	2412	9.71	100.00	0.00	9.71	≤30.0 0	PASS
11N20MI MO	Ant1	2412	9.68	100.00	0.00	9.68	≤30.0 0	PASS
11N20MI MO	total	2412	---	---	---	12.71	≤29.2 3	PASS
11N20MI MO	Ant0	2437	9.69	100.00	0.00	9.69	≤30.0 0	PASS
11N20MI MO	Ant1	2437	9.70	100.00	0.00	9.70	≤30.0 0	PASS
11N20MI MO	total	2437	---	---	---	12.71	≤29.2 3	PASS

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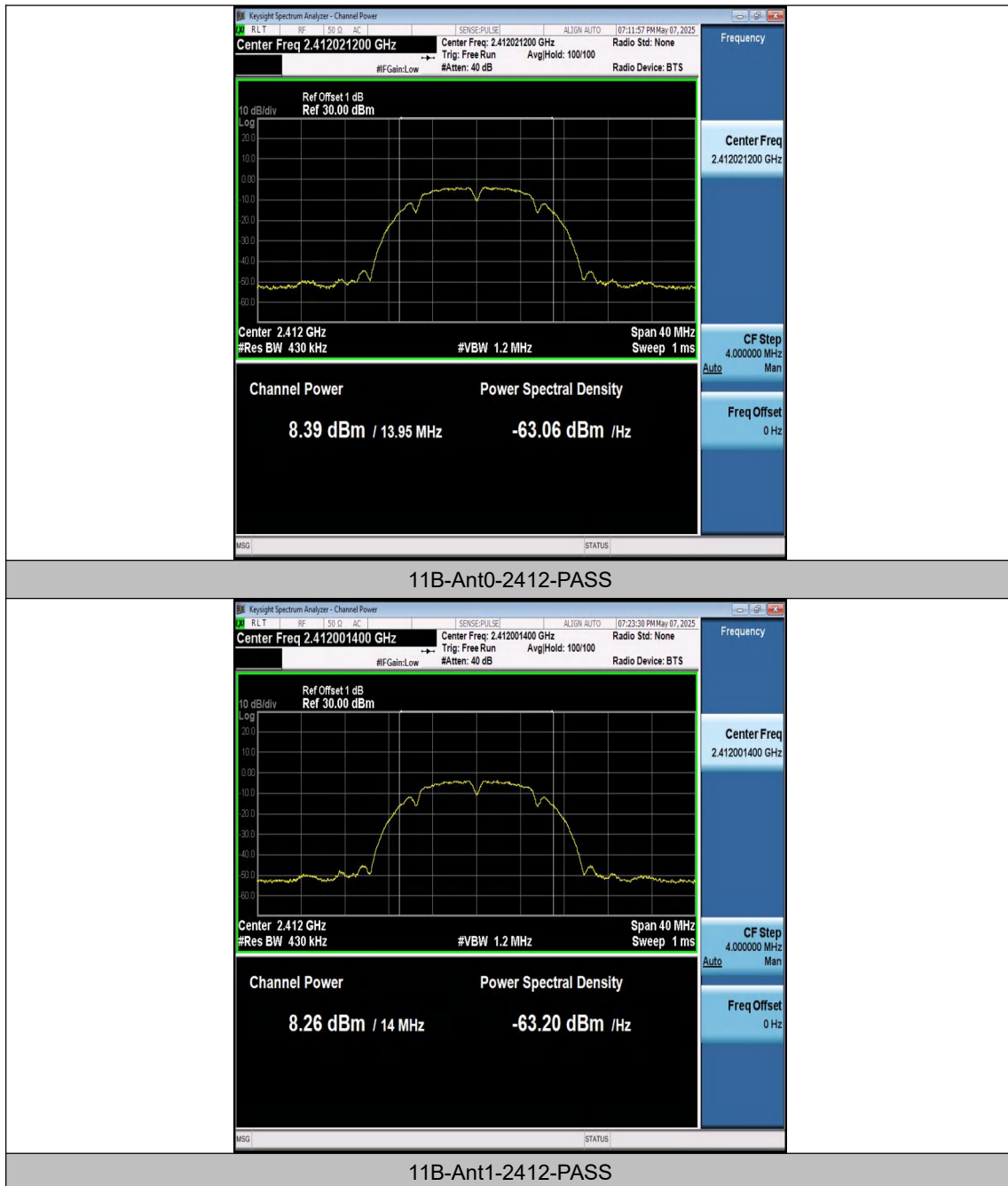
11N20MI MO	Ant0	2462	9.20	100.00	0.00	9.20	≤30.0 0	PASS
11N20MI MO	Ant1	2462	9.22	100.00	0.00	9.22	≤30.0 0	PASS
11N20MI MO	total	2462	---	---	---	12.22	≤29.2 3	PASS
11N40MI MO	Ant0	2422	9.53	100.00	0.00	9.53	≤30.0 0	PASS
11N40MI MO	Ant1	2422	9.51	100.00	0.00	9.51	≤30.0 0	PASS
11N40MI MO	total	2422	---	---	---	12.53	≤29.2 3	PASS
11N40MI MO	Ant0	2437	9.64	100.00	0.00	9.64	≤30.0 0	PASS
11N40MI MO	Ant1	2437	9.62	100.00	0.00	9.62	≤30.0 0	PASS
11N40MI MO	total	2437	---	---	---	12.64	≤29.2 3	PASS
11N40MI MO	Ant0	2452	9.22	100.00	0.00	9.22	≤30.0 0	PASS
11N40MI MO	Ant1	2452	9.20	100.00	0.00	9.20	≤30.0 0	PASS
11N40MI MO	total	2452	---	---	---	12.22	≤29.2 3	PASS

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

2.As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.77>6dBi,
so limit=30-(6.77-6.00)=29.23dBm.

3.MIMO= $10 \cdot \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

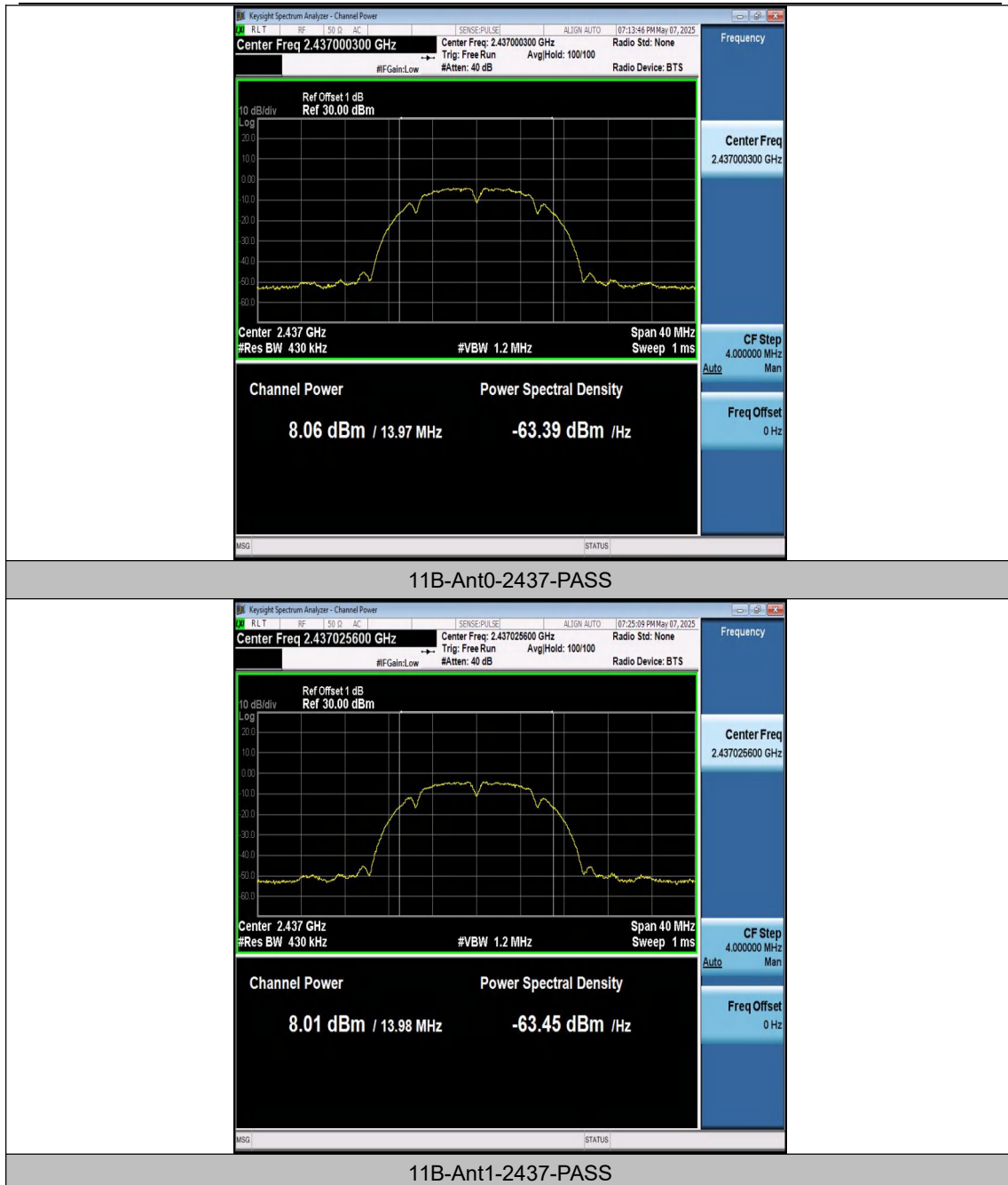
Test Graphs Average

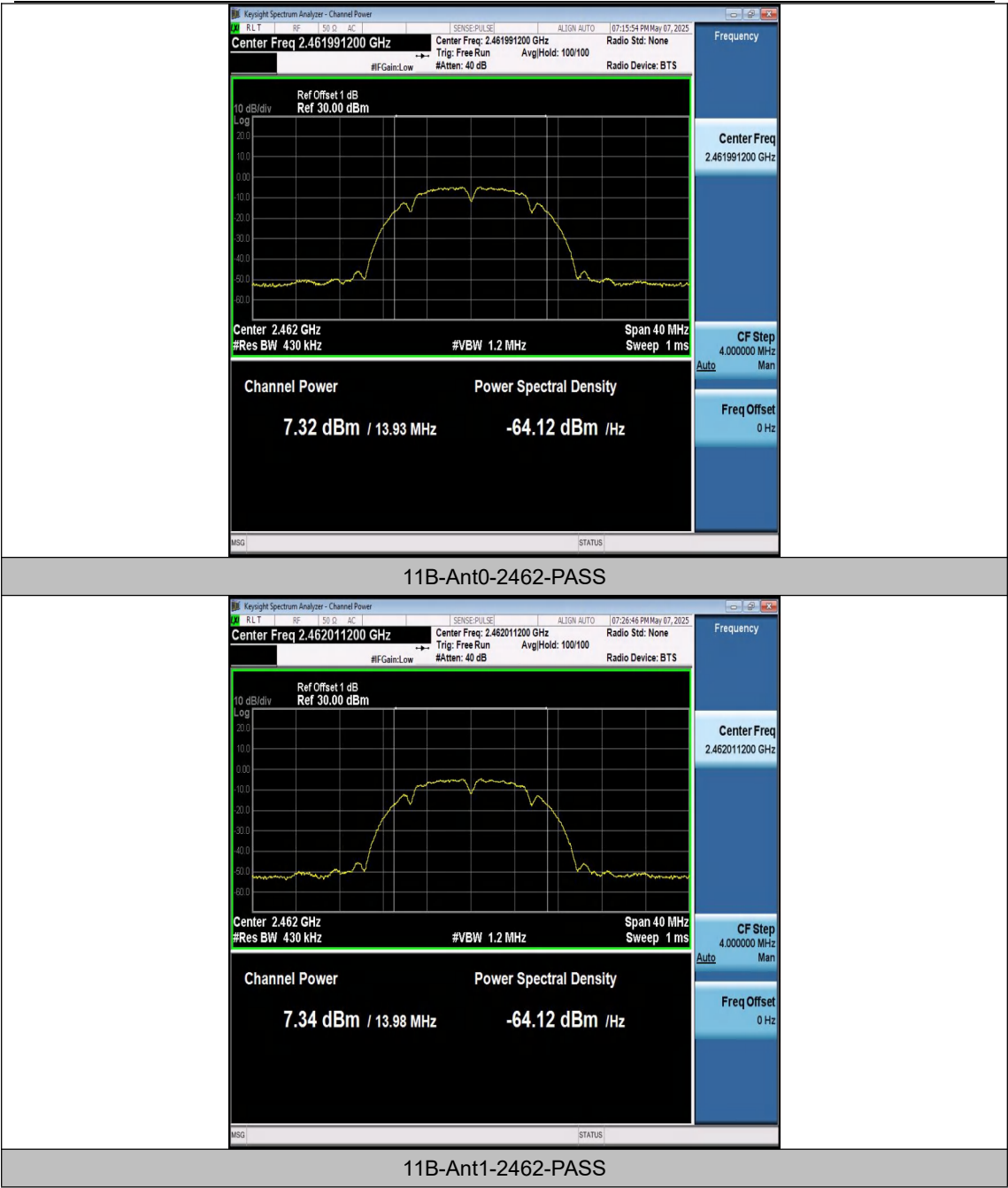


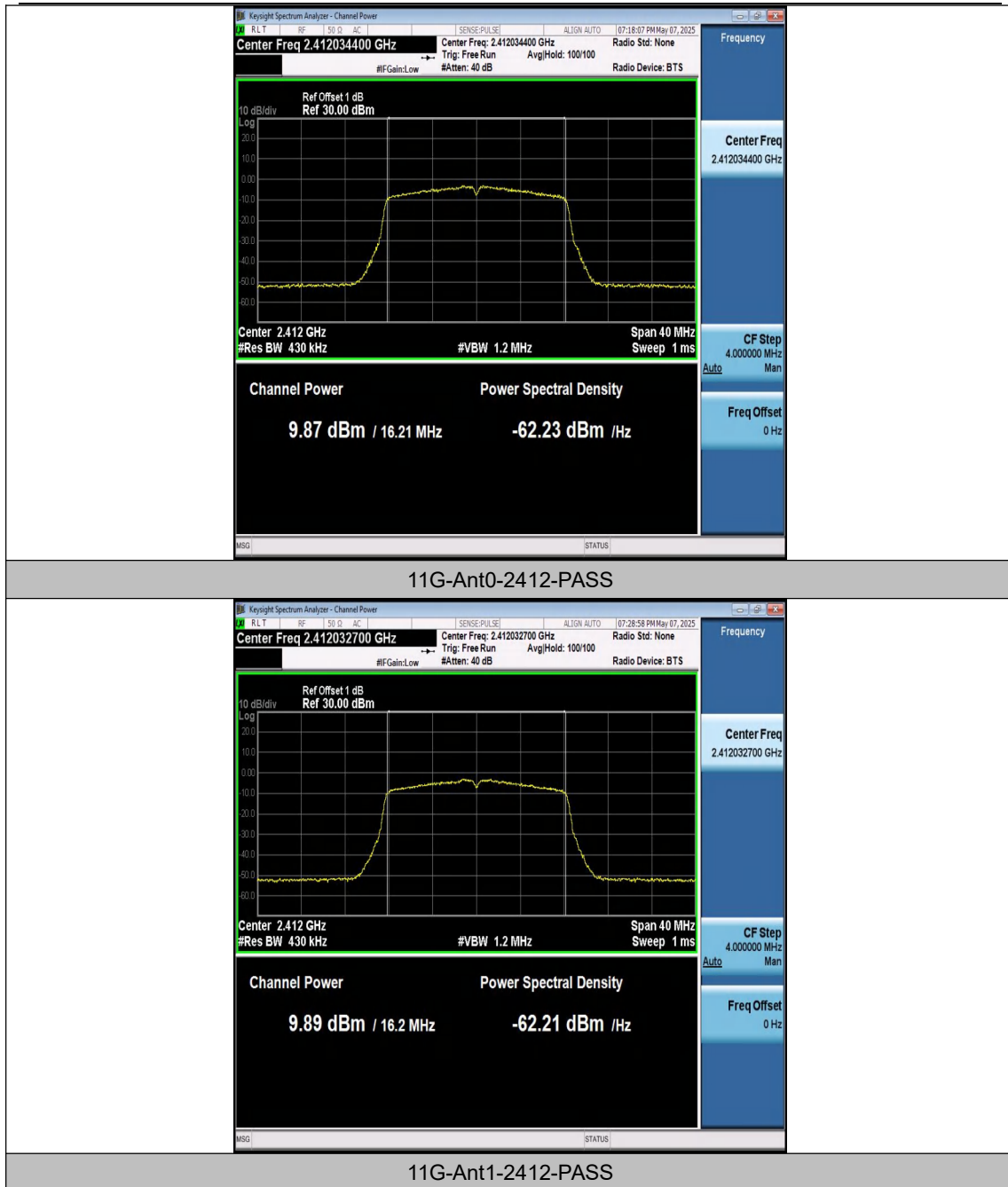
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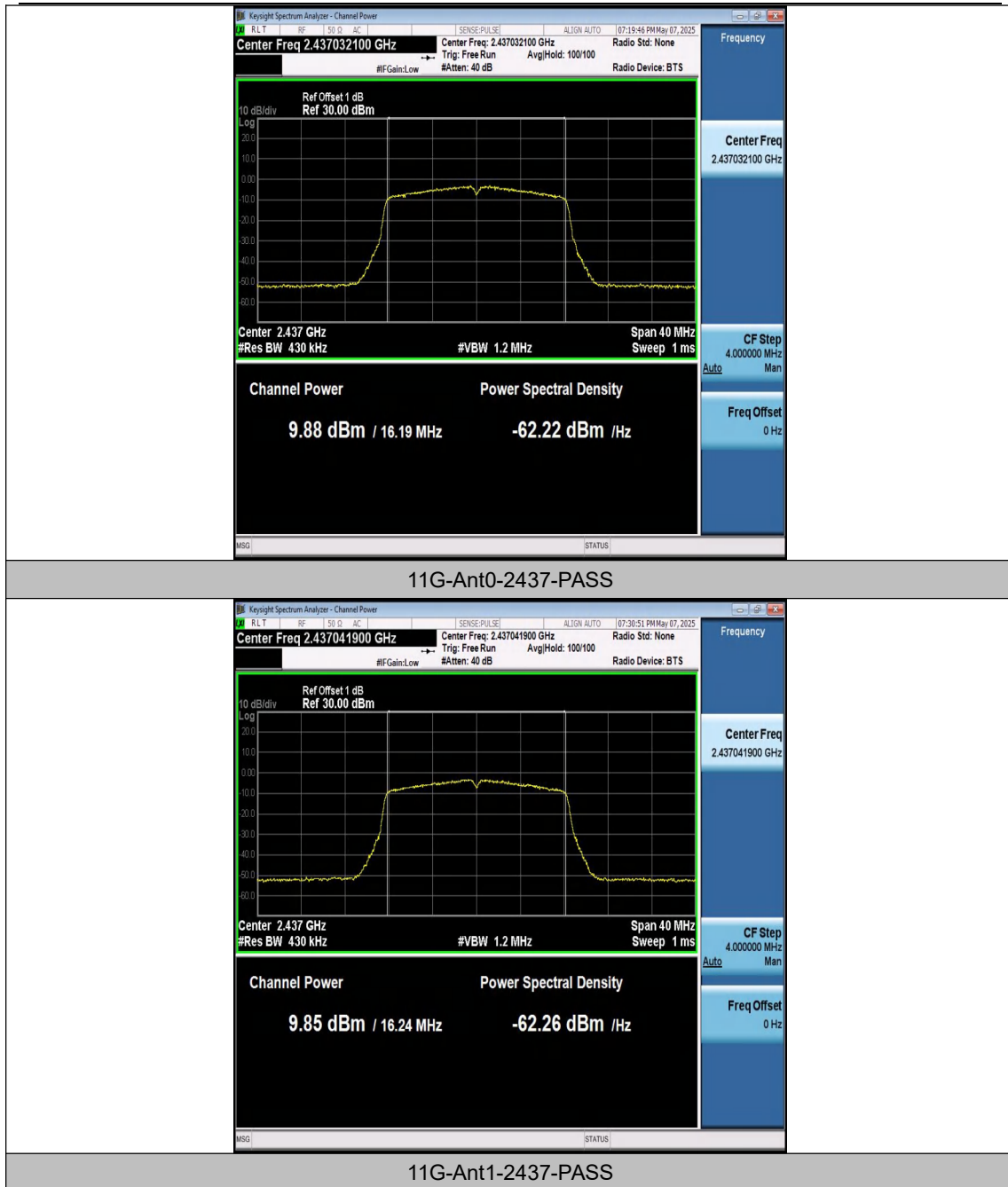




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