

Appendix Test Data

Report No.:	1813C50041212503	Test Sample No.:	1-2-2
Start Test Date:	2025.02.25	Finish Test Date:	2025.02.25
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	49%
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	10.400	2406.800	2417.200	0.5	PASS
11B	Ant2	2412	12.040	2405.960	2418.000	0.5	PASS
11B	Ant1	2437	11.240	2430.960	2442.200	0.5	PASS
11B	Ant2	2437	11.200	2431.000	2442.200	0.5	PASS
11B	Ant1	2462	11.240	2455.960	2467.200	0.5	PASS
11B	Ant2	2462	11.240	2455.960	2467.200	0.5	PASS
11G	Ant1	2412	15.200	2404.280	2419.480	0.5	PASS
11G	Ant2	2412	16.200	2403.960	2420.160	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant2	2437	16.280	2428.880	2445.160	0.5	PASS
11G	Ant1	2462	16.240	2453.920	2470.160	0.5	PASS
11G	Ant2	2462	16.200	2453.880	2470.080	0.5	PASS
11N20MIMO	Ant2	2412	17.440	2403.280	2420.720	0.5	PASS
11N20MIMO	Ant1	2412	17.520	2403.200	2420.720	0.5	PASS
11N20MIMO	Ant1	2437	17.440	2428.240	2445.680	0.5	PASS
11N20MIMO	Ant2	2437	17.480	2428.240	2445.720	0.5	PASS
11N20MIMO	Ant1	2462	17.480	2453.240	2470.720	0.5	PASS
11N20MIMO	Ant2	2462	17.480	2453.280	2470.760	0.5	PASS
11N40MIMO	Ant1	2422	34.880	2404.320	2439.200	0.5	PASS
11N40MIMO	Ant2	2422	34.320	2404.400	2438.720	0.5	PASS
11N40MIMO	Ant1	2437	36.000	2419.000	2455.000	0.5	PASS
11N40MIMO	Ant2	2437	36.320	2418.840	2455.160	0.5	PASS
11N40MIMO	Ant1	2452	36.560	2433.760	2470.320	0.5	PASS
11N40MIMO	Ant2	2452	36.320	2433.840	2470.160	0.5	PASS



11AX20MIMO	Ant2	2412	18.640	2402.760	2421.400	0.5	PASS
11AX20MIMO	Ant1	2412	18.800	2402.560	2421.360	0.5	PASS
11AX20MIMO	Ant1	2437	18.880	2427.480	2446.360	0.5	PASS
11AX20MIMO	Ant2	2437	18.600	2427.680	2446.280	0.5	PASS
11AX20MIMO	Ant1	2462	18.720	2452.600	2471.320	0.5	PASS
11AX20MIMO	Ant2	2462	18.640	2452.680	2471.320	0.5	PASS
11AX40MIMO	Ant1	2422	37.680	2403.120	2440.800	0.5	PASS
11AX40MIMO	Ant2	2422	37.600	2403.200	2440.800	0.5	PASS
11AX40MIMO	Ant1	2437	37.760	2418.120	2455.880	0.5	PASS
11AX40MIMO	Ant2	2437	38.000	2417.960	2455.960	0.5	PASS
11AX40MIMO	Ant1	2452	37.840	2433.120	2470.960	0.5	PASS
11AX40MIMO	Ant2	2452	37.200	2433.200	2470.400	0.5	PASS

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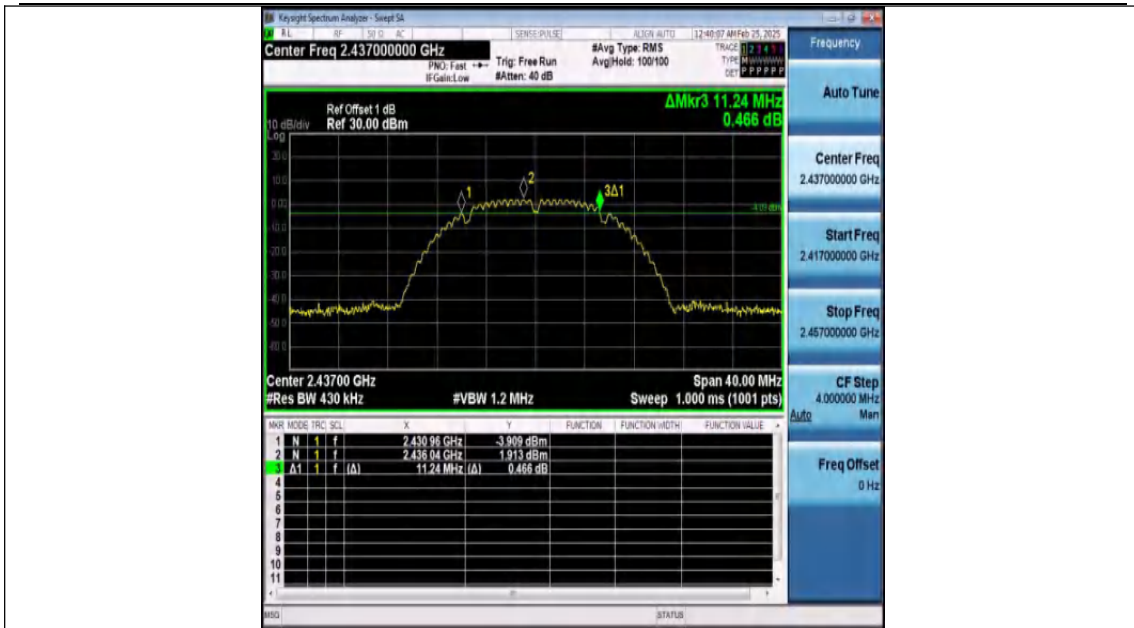
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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Tel:(86)0755-26066440 Email:service@anbotek.com



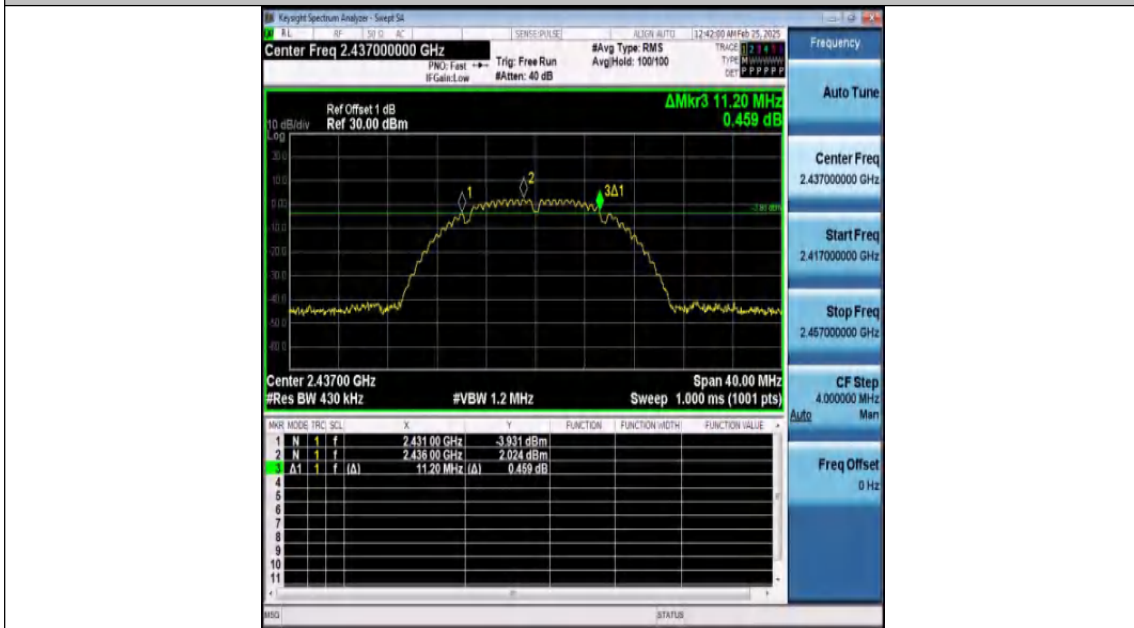
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Test Graphs





11B-Ant1-2437-PASS



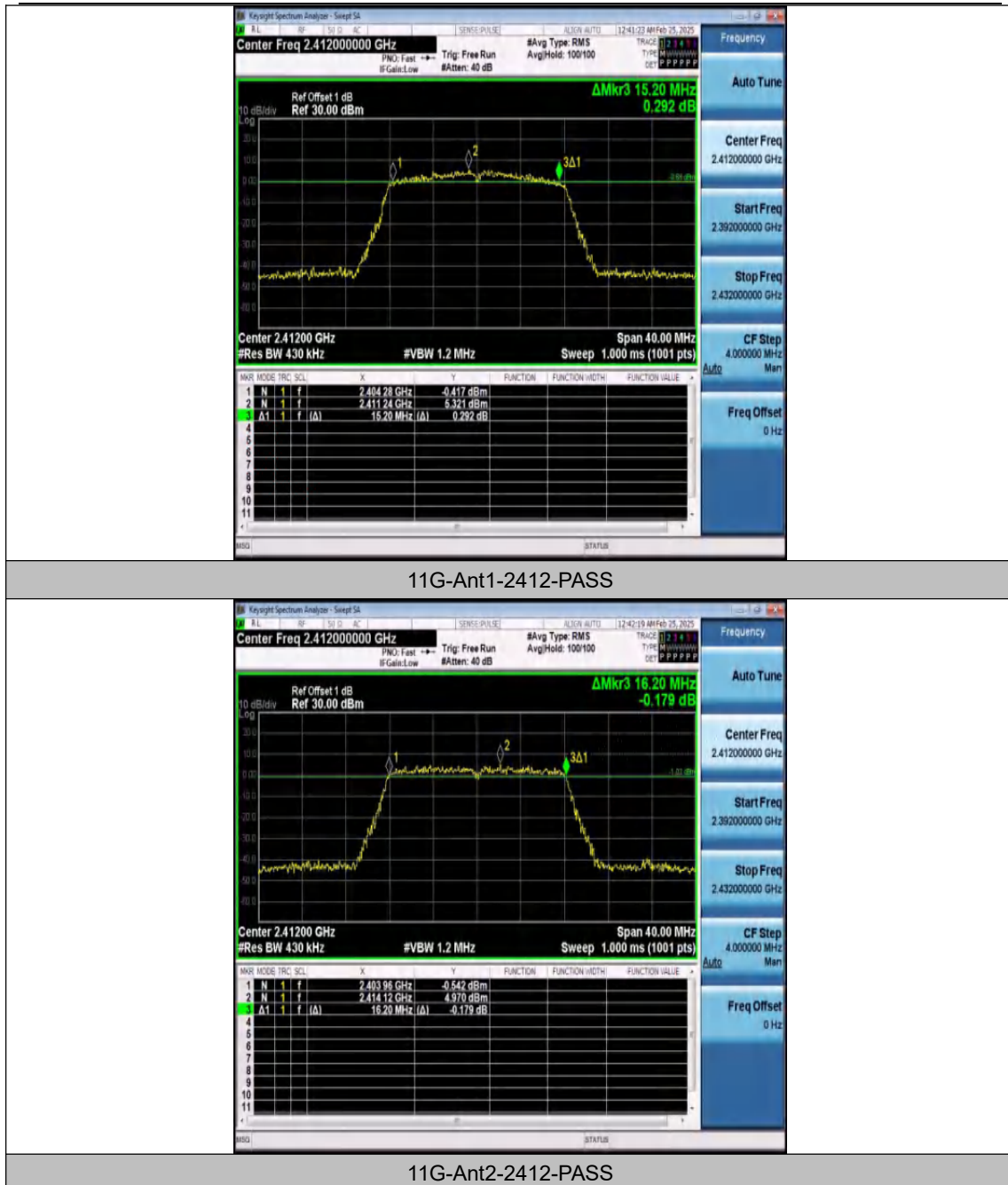
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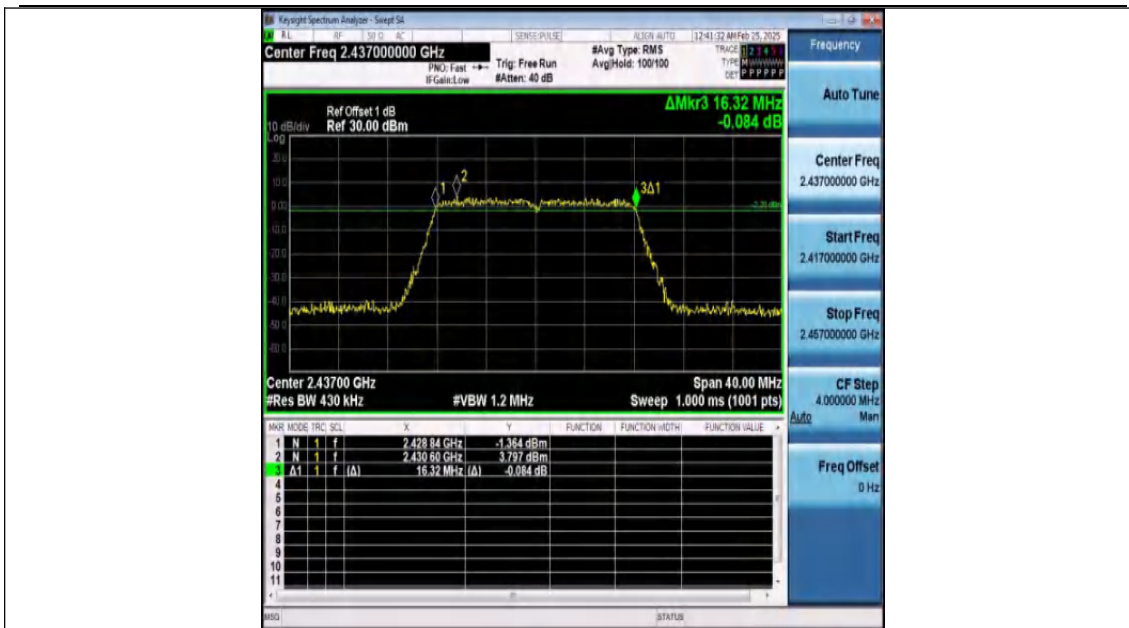


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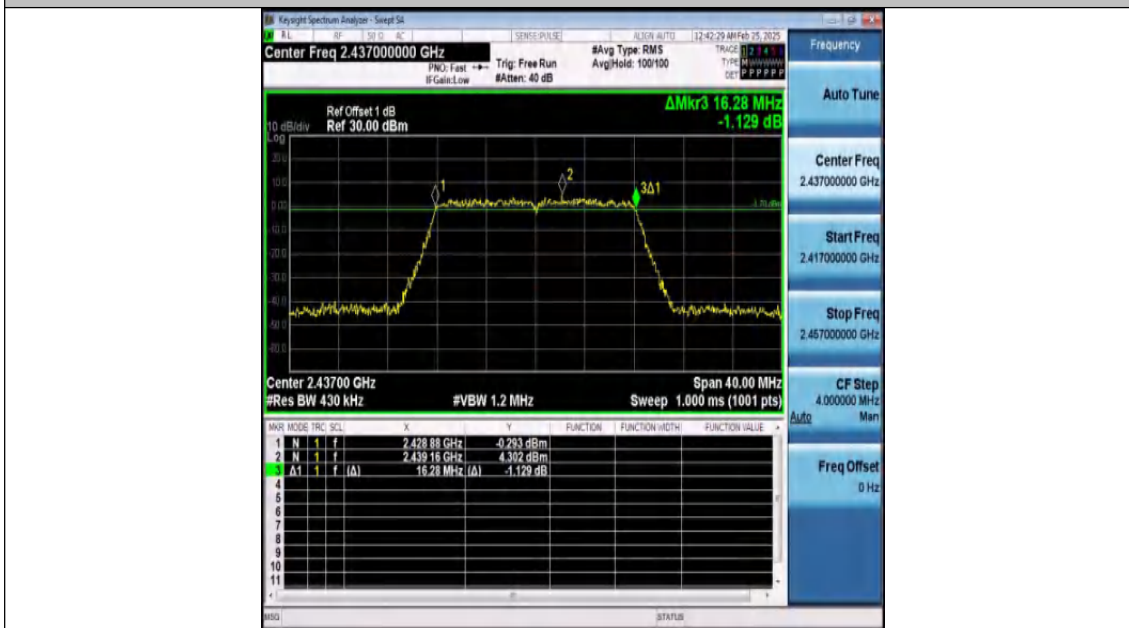


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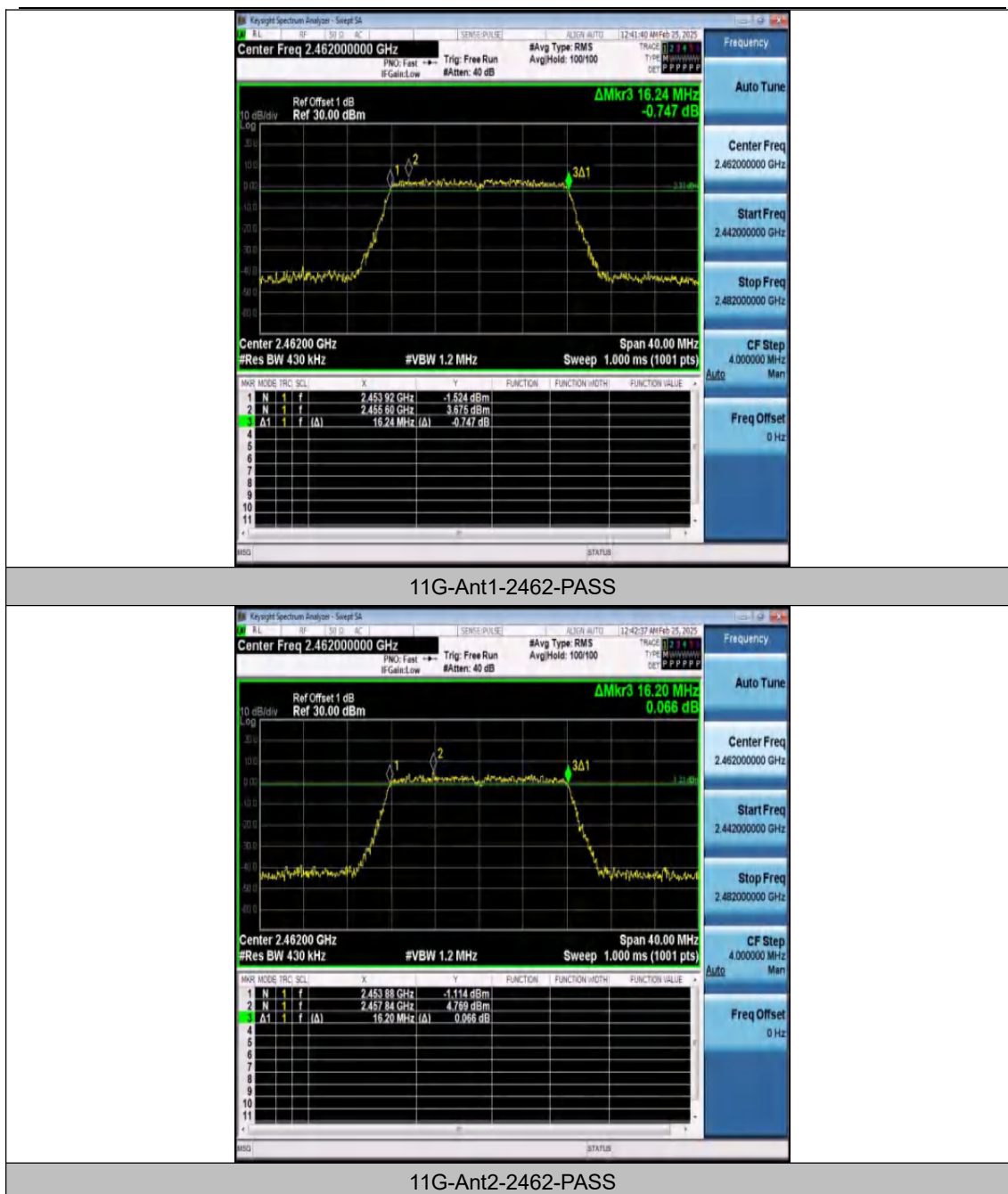


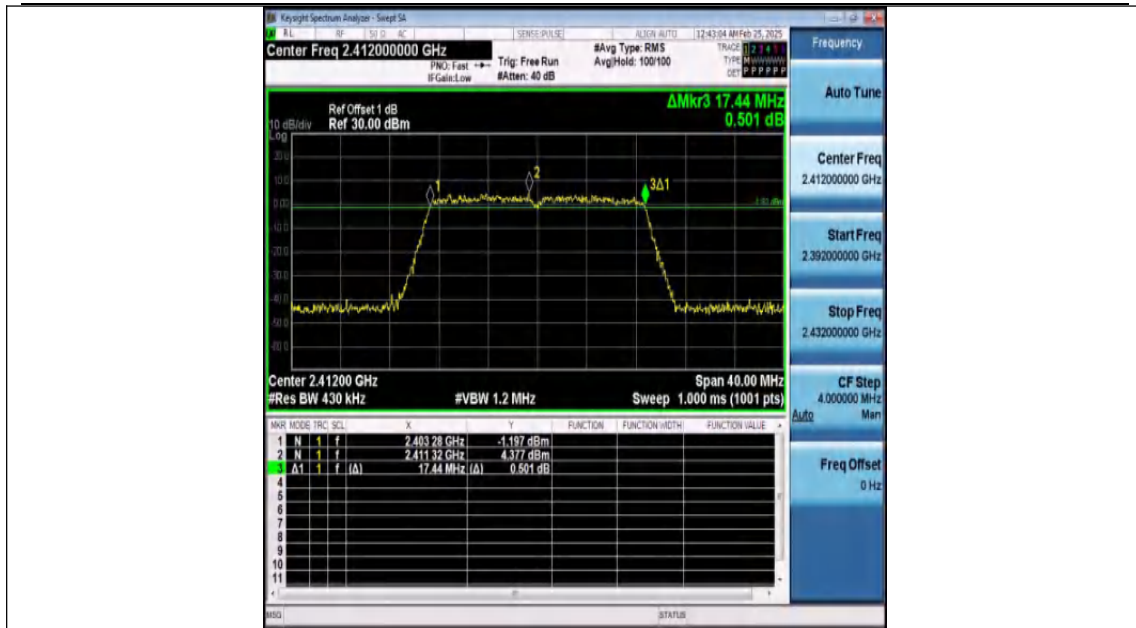


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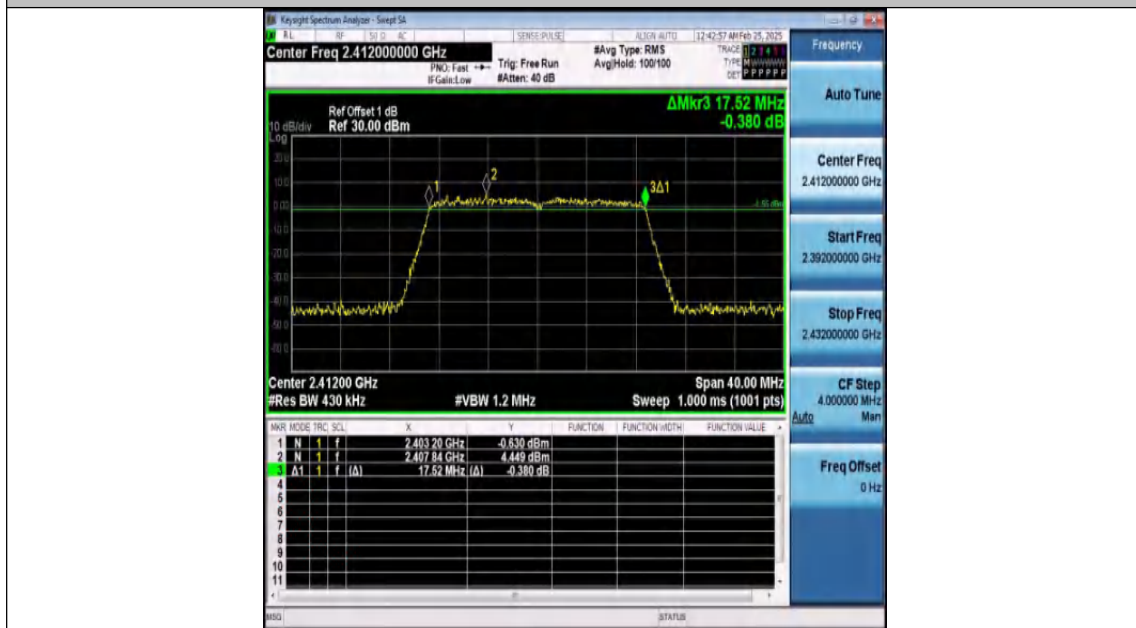


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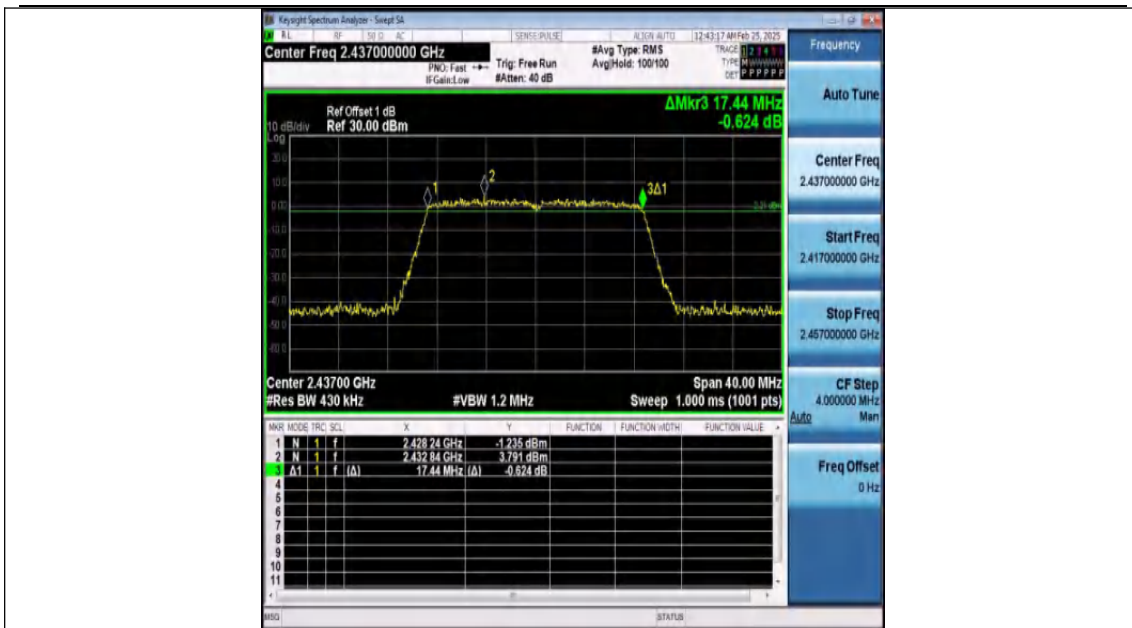




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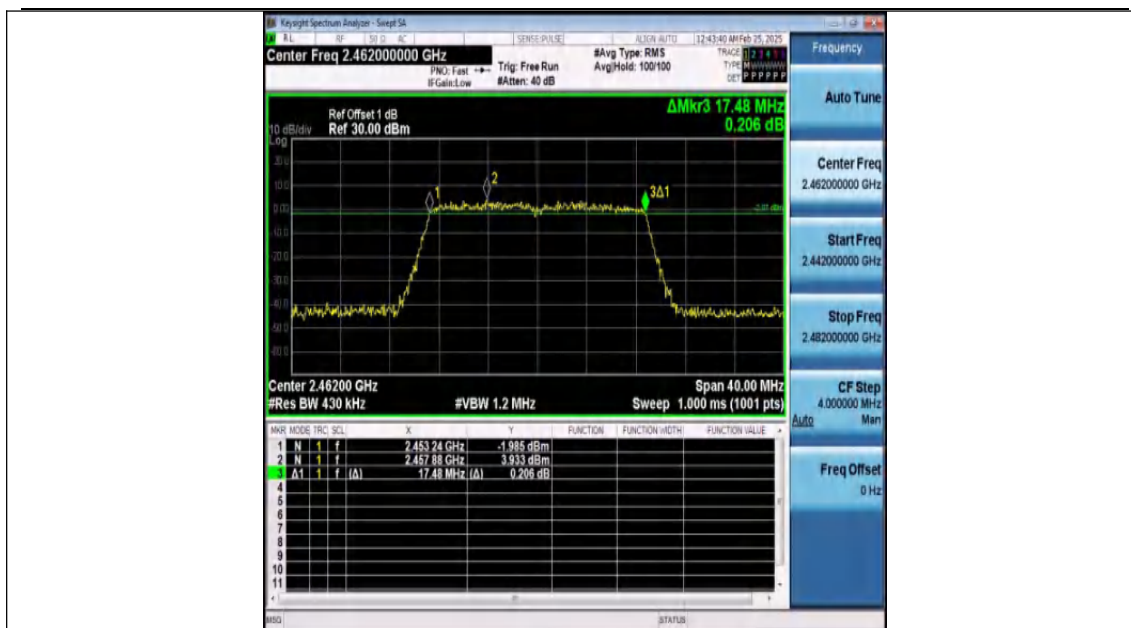
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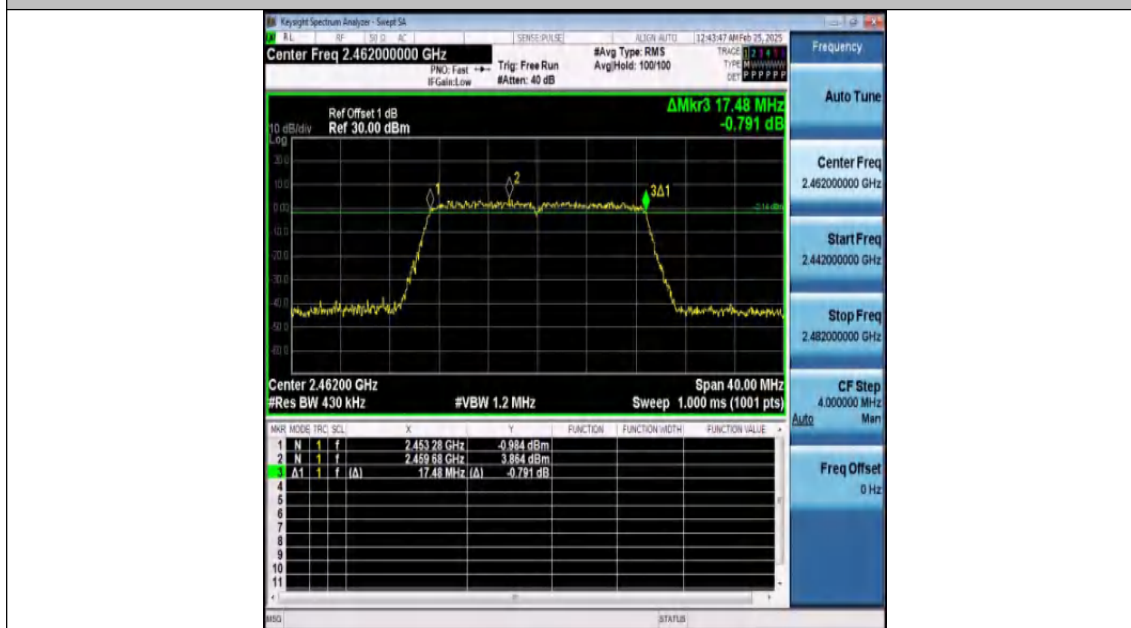
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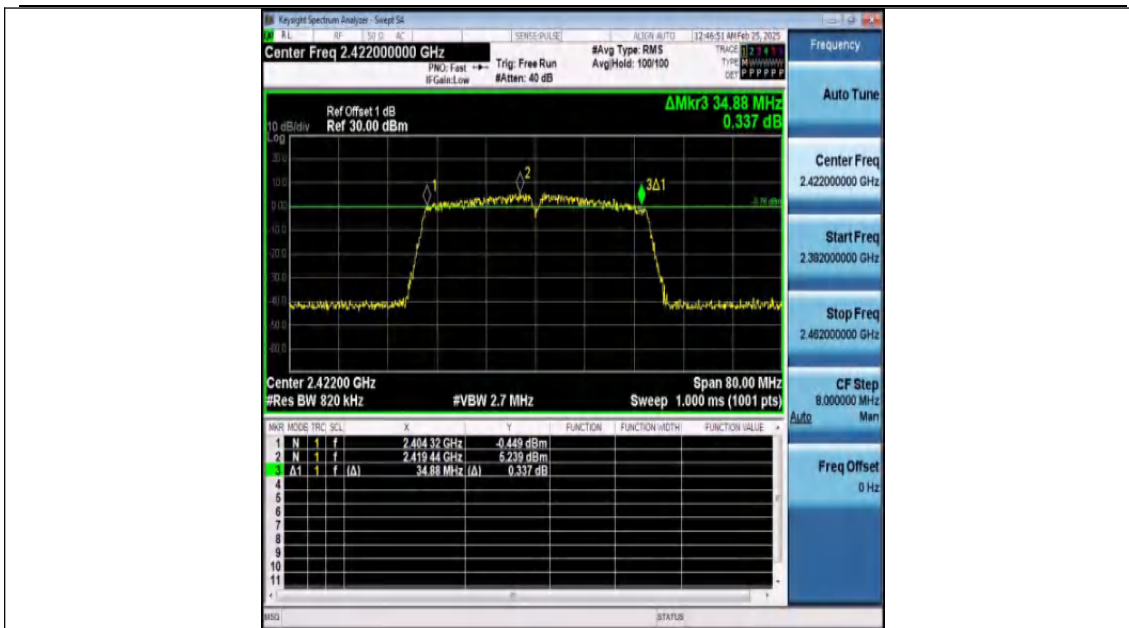
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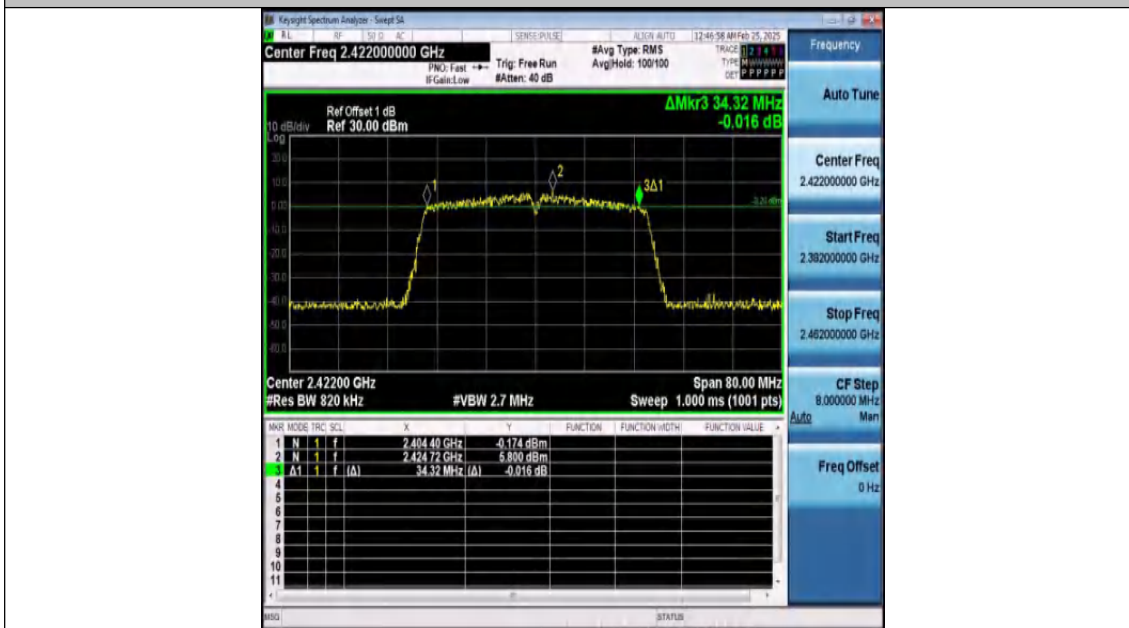
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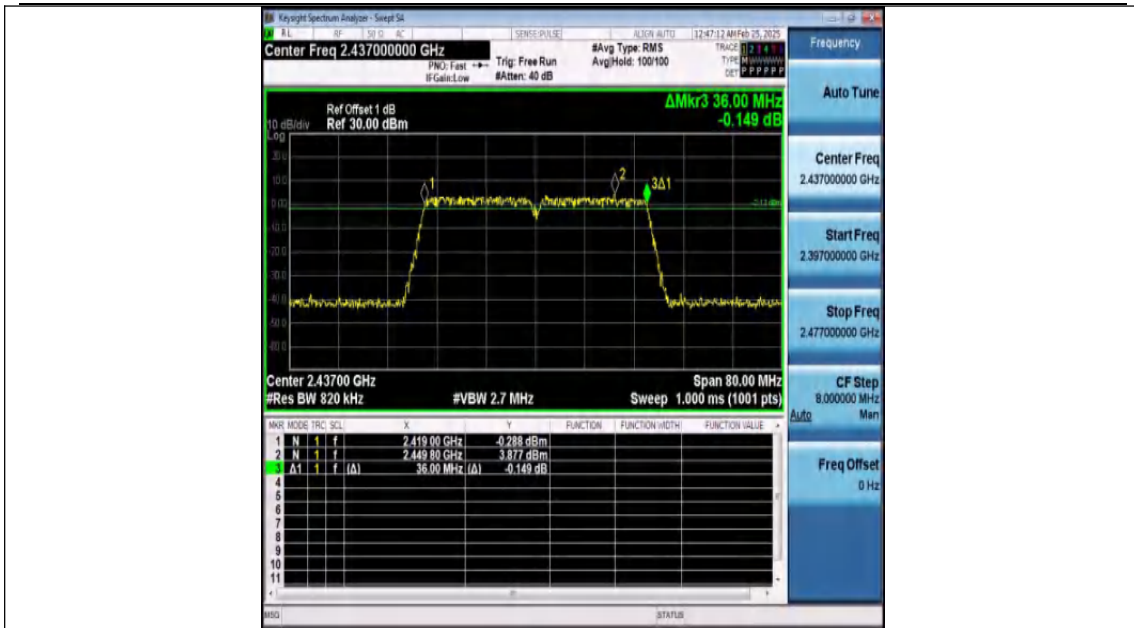
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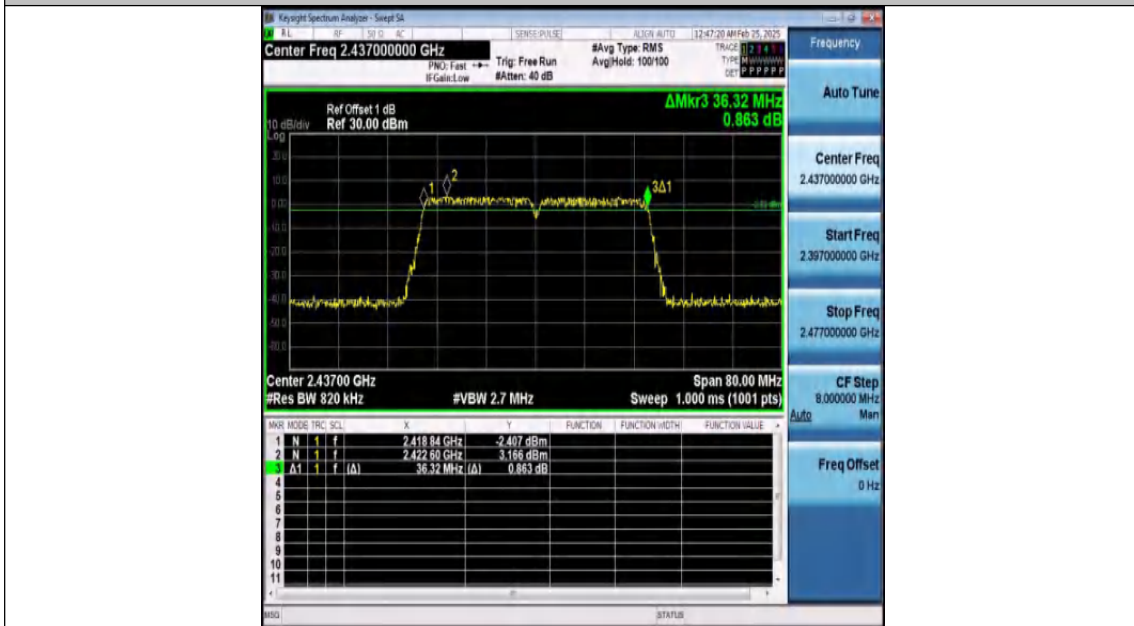
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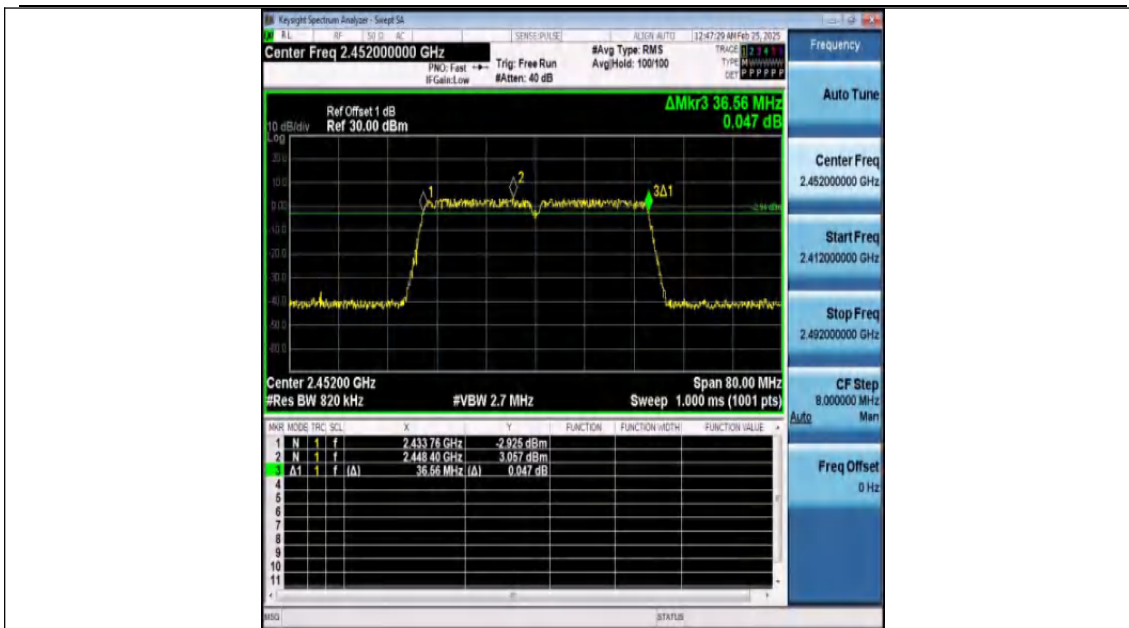
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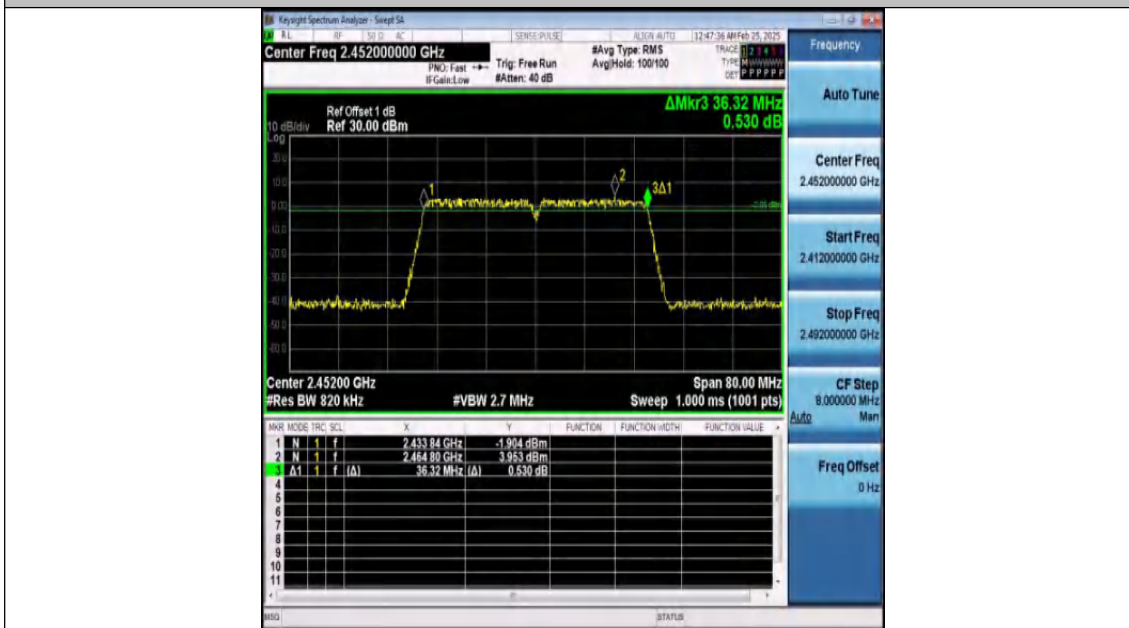
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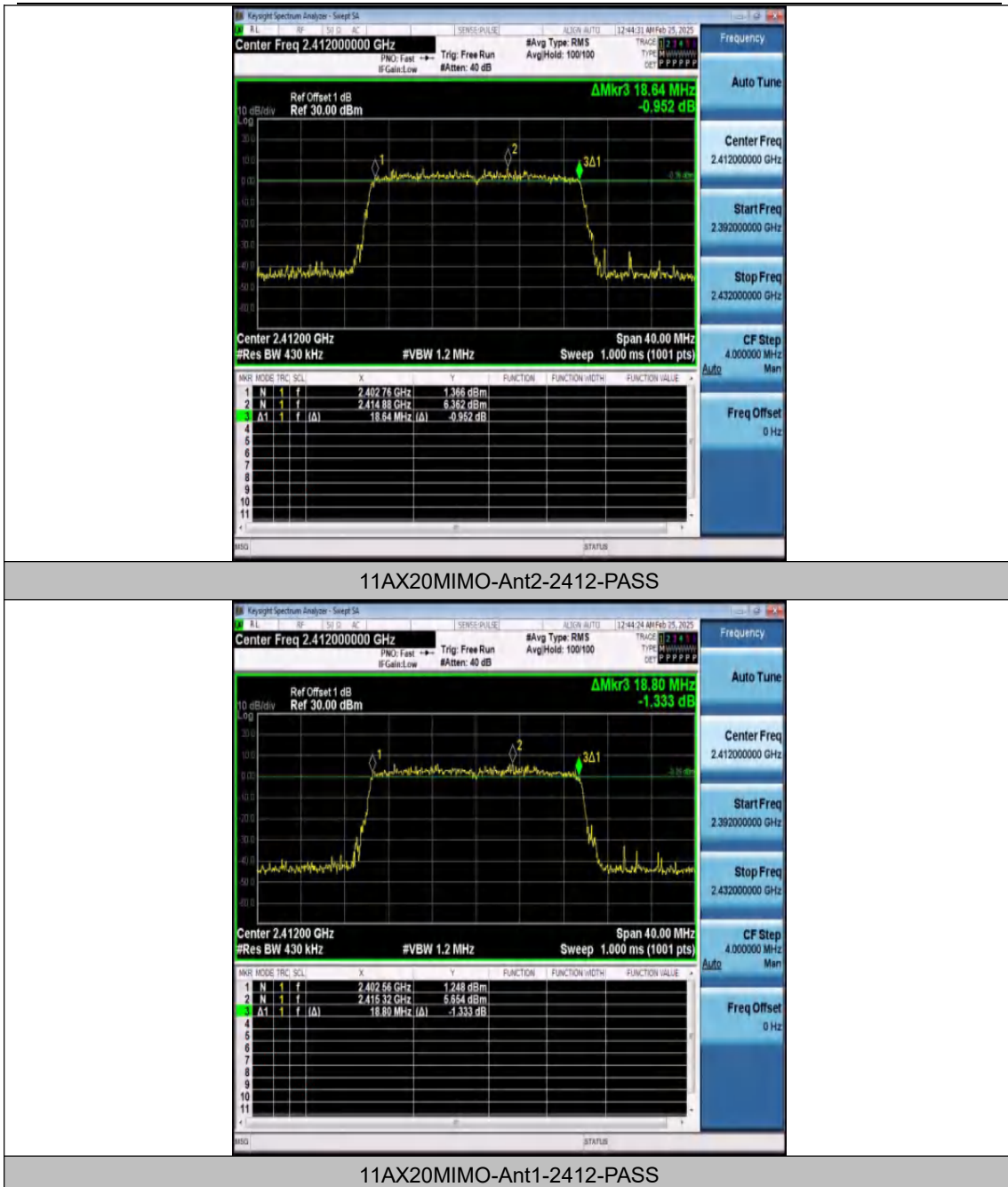
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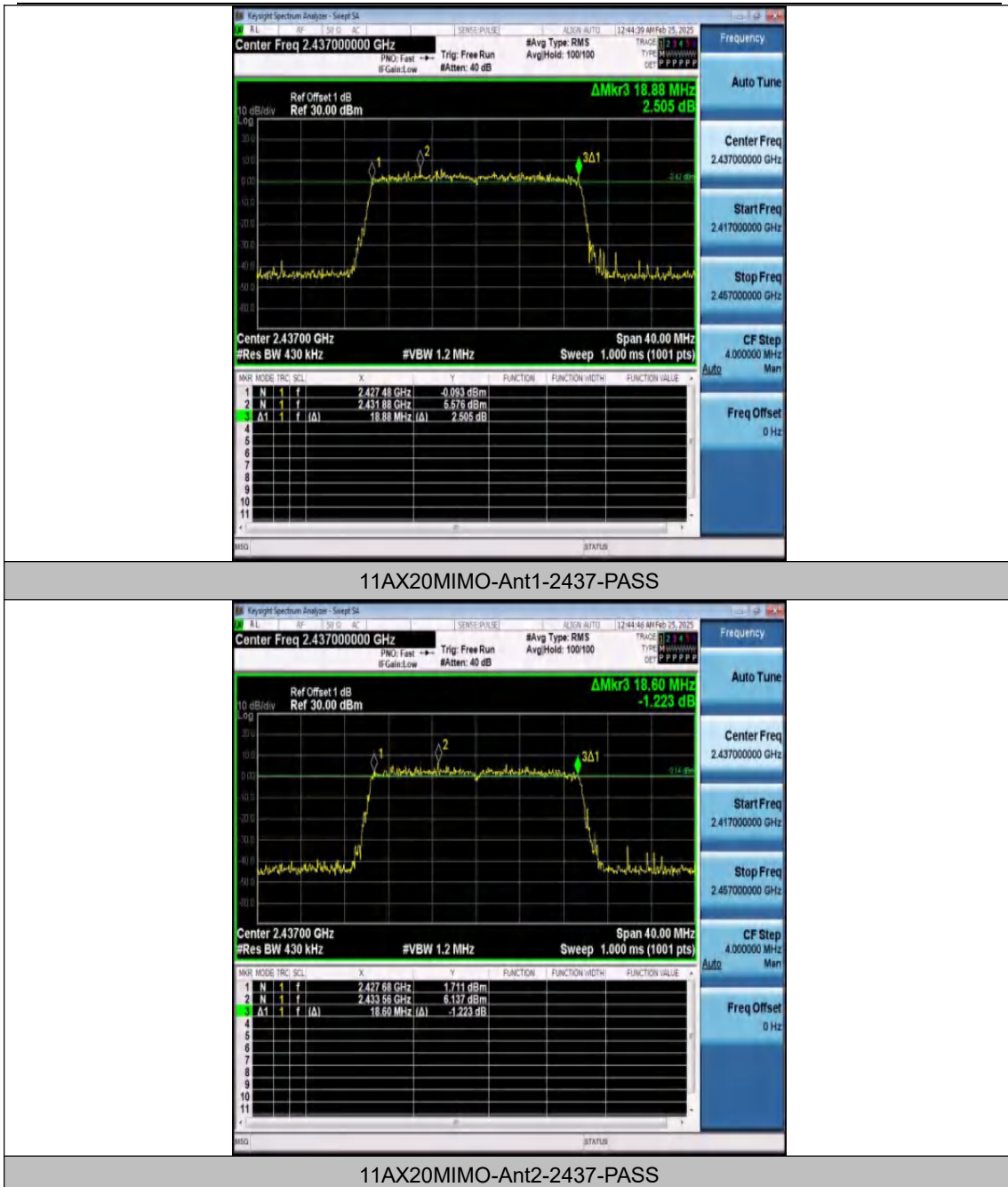


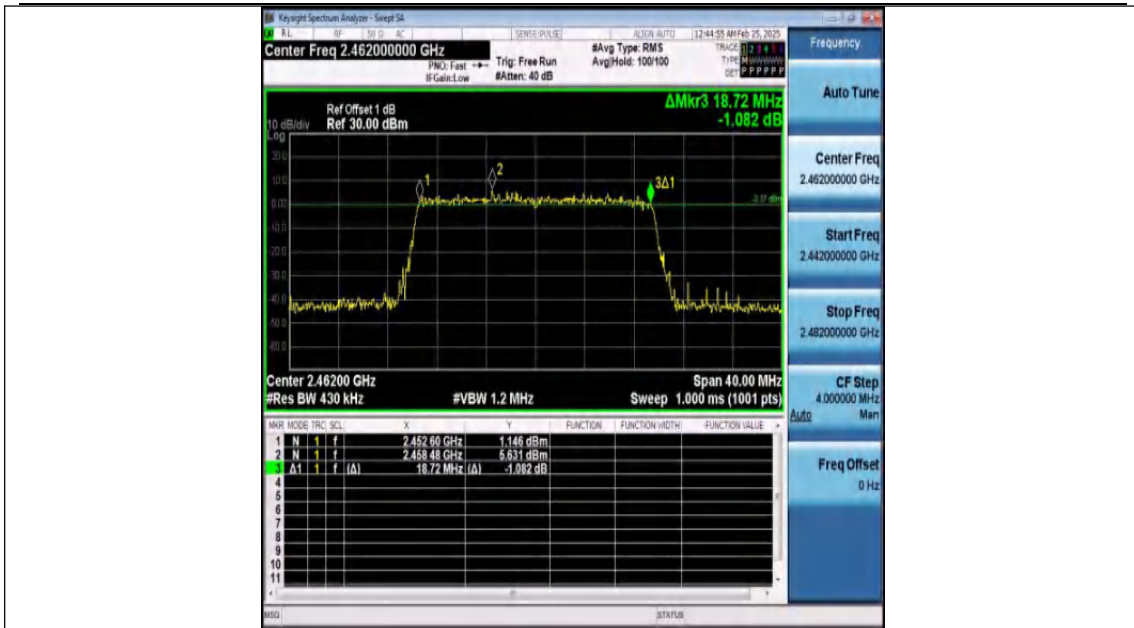
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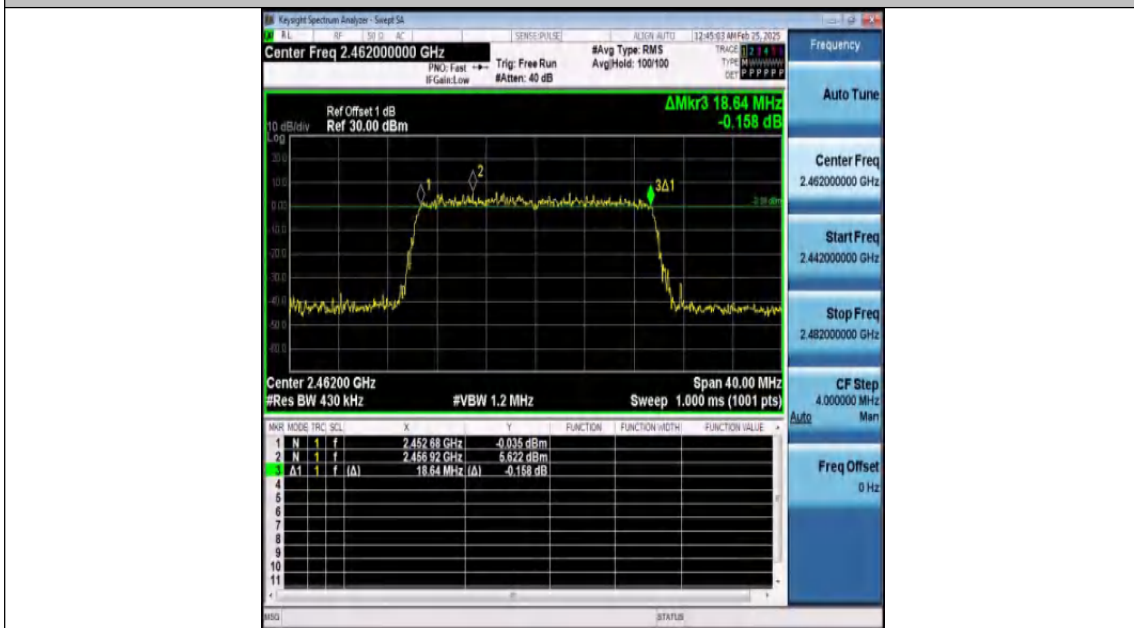
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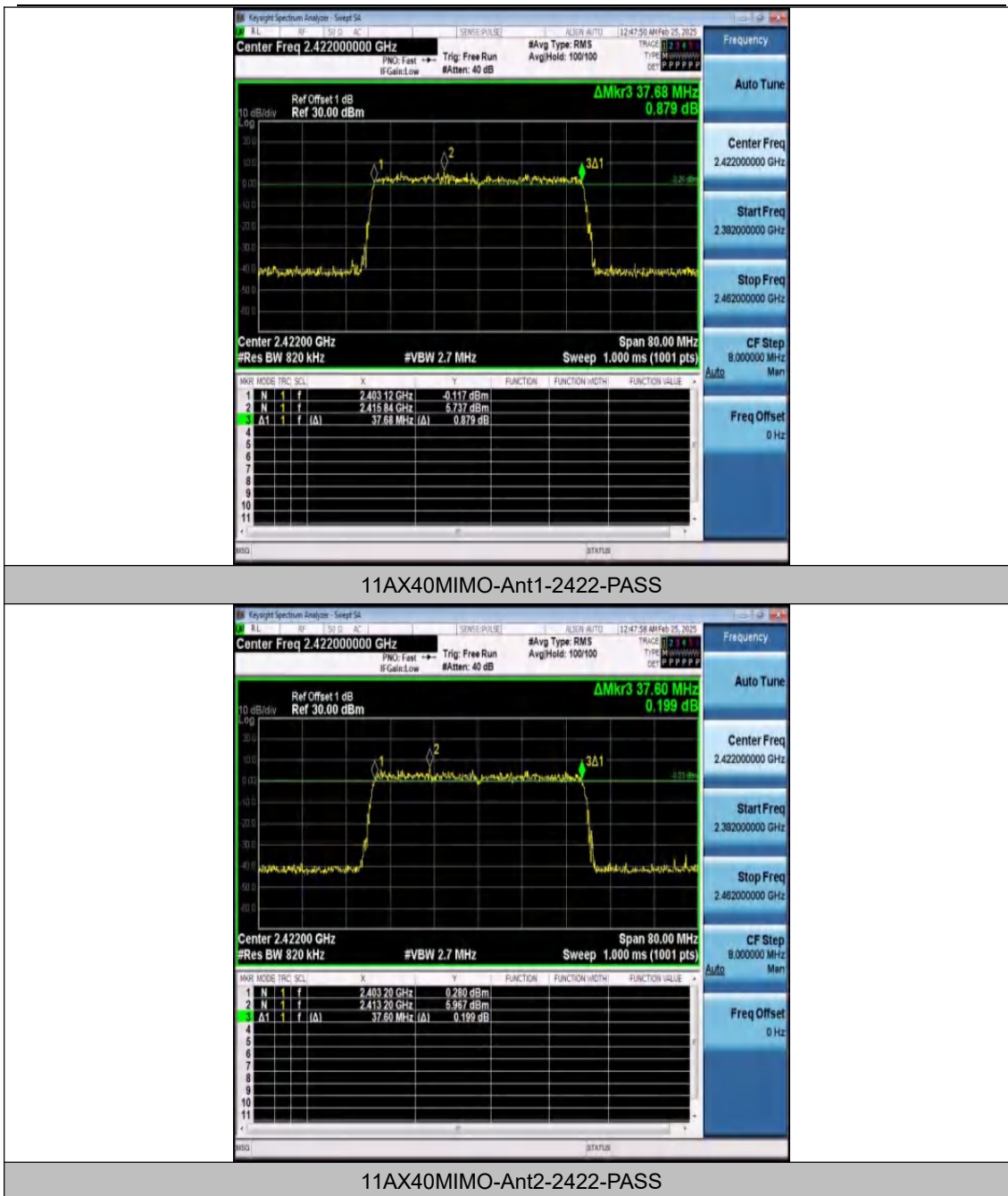


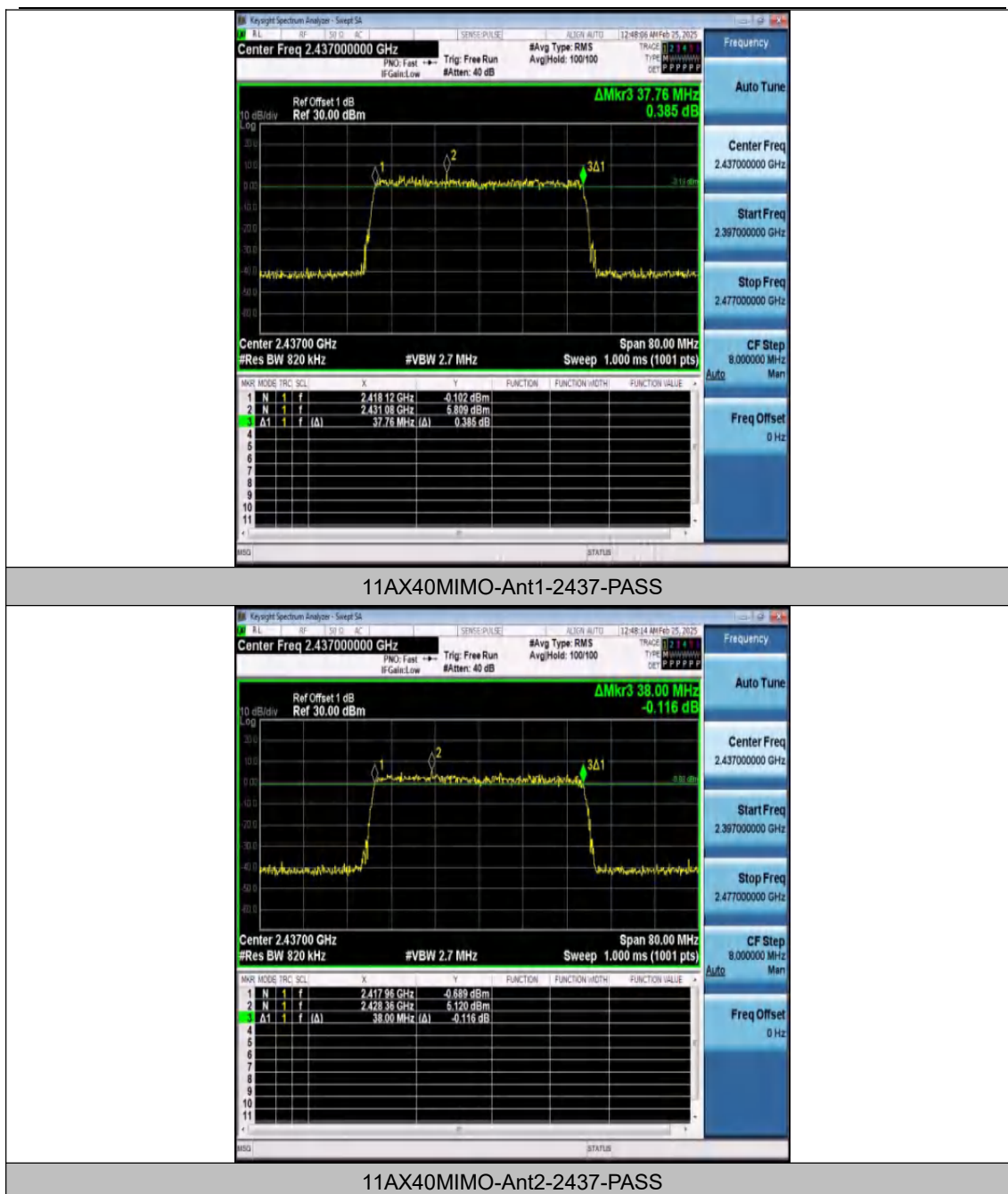


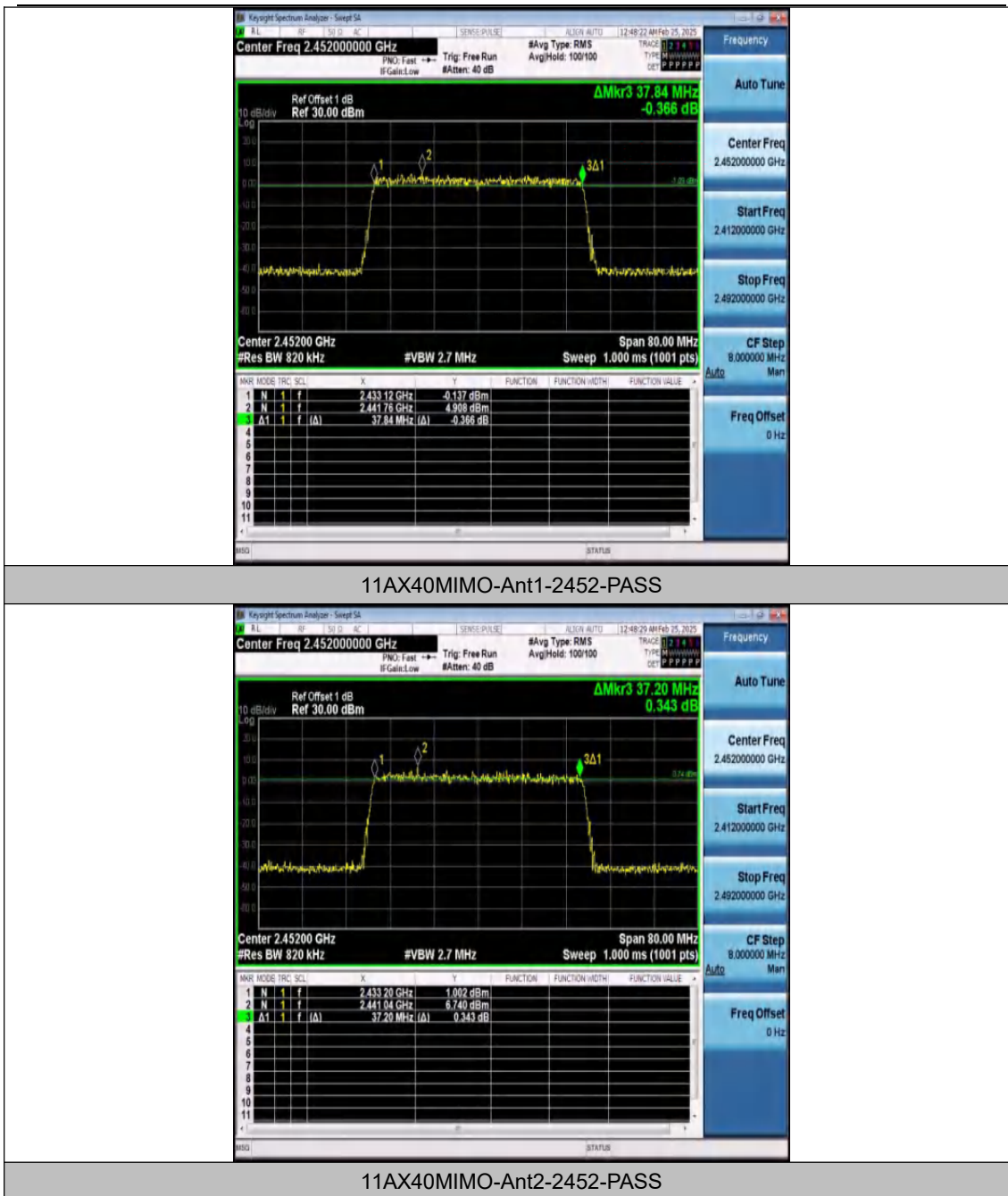
11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-PASS





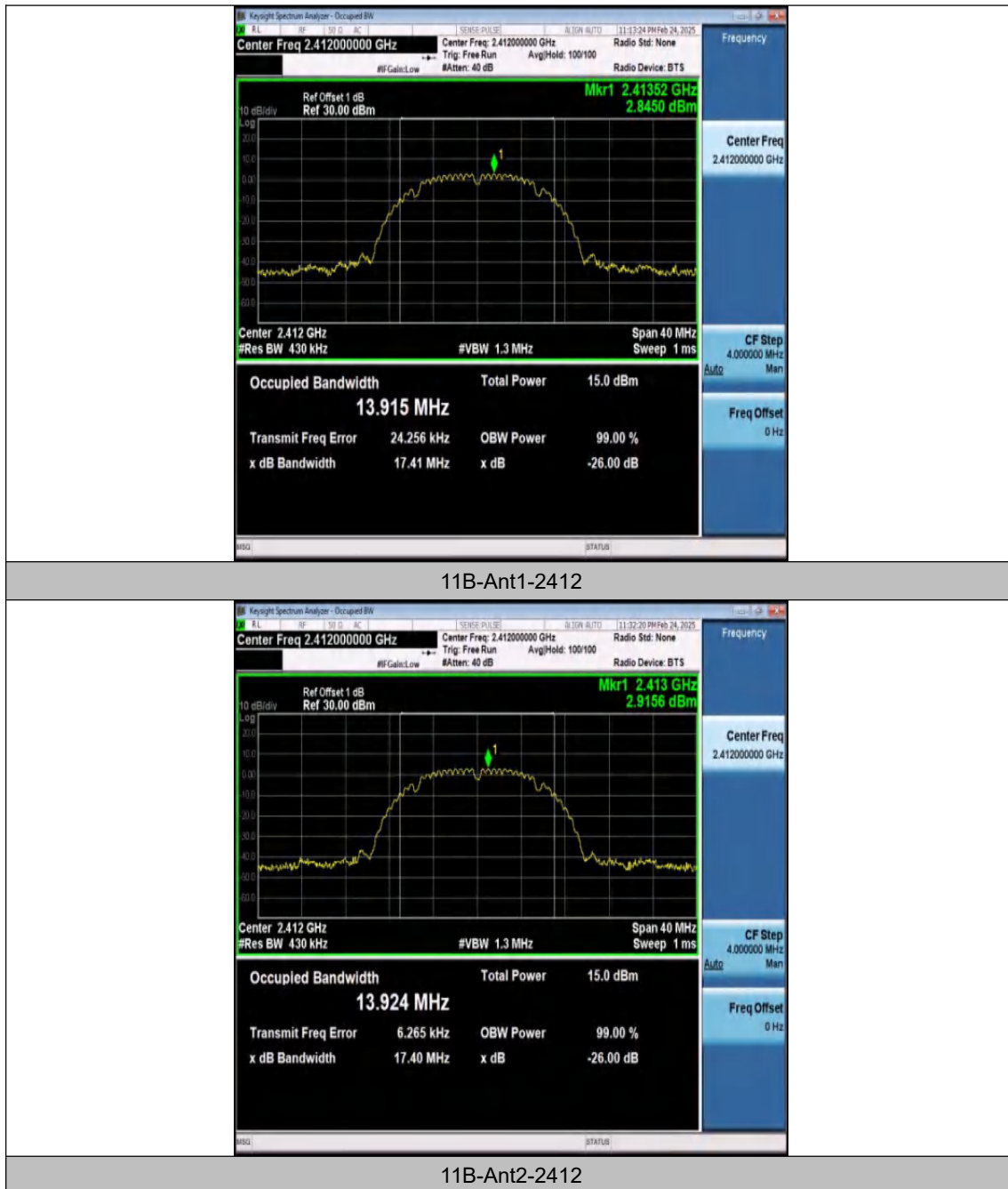


Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.915	2405.0668	2418.9818	---	---
11B	Ant2	2412	13.924	2405.0443	2418.9683	---	---
11B	Ant1	2437	14.931	2429.5389	2444.4699	---	---
11B	Ant2	2437	14.933	2429.5179	2444.4509	---	---
11B	Ant1	2462	14.941	2454.5119	2469.4529	---	---
11B	Ant2	2462	14.928	2454.4975	2469.4255	---	---
11G	Ant1	2412	16.229	2403.8659	2420.0949	---	---
11G	Ant2	2412	16.492	2403.7624	2420.2544	---	---
11G	Ant1	2437	16.510	2428.7279	2445.2379	---	---
11G	Ant2	2437	16.447	2428.7770	2445.2240	---	---
11G	Ant1	2462	16.429	2453.7749	2470.2039	---	---
11G	Ant2	2462	16.473	2453.7409	2470.2139	---	---
11N20MIMO	Ant1	2412	17.601	2403.1766	2420.7776	---	---
11N20MIMO	Ant2	2412	17.609	2403.1783	2420.7873	---	---
11N20MIMO	Ant1	2437	17.648	2428.1701	2445.8181	---	---
11N20MIMO	Ant2	2437	17.633	2428.1858	2445.8188	---	---
11N20MIMO	Ant1	2462	17.629	2453.1728	2470.8018	---	---
11N20MIMO	Ant2	2462	17.591	2453.1971	2470.7881	---	---
11N40MIMO	Ant1	2422	35.703	2404.1576	2439.8606	---	---
11N40MIMO	Ant2	2422	35.684	2404.1359	2439.8199	---	---
11N40MIMO	Ant1	2437	36.195	2418.8985	2455.0935	---	---
11N40MIMO	Ant2	2437	36.250	2418.8961	2455.1461	---	---
11N40MIMO	Ant1	2452	36.236	2433.9026	2470.1386	---	---
11N40MIMO	Ant2	2452	36.207	2433.9258	2470.1328	---	---
11AX20MIMO	Ant1	2412	18.588	2402.7179	2421.3059	---	---
11AX20MIMO	Ant2	2412	18.567	2402.7183	2421.2853	---	---
11AX20MIMO	Ant1	2437	18.851	2427.5580	2446.4090	---	---
11AX20MIMO	Ant2	2437	18.955	2427.5211	2446.4761	---	---
11AX20MIMO	Ant1	2462	18.867	2452.5533	2471.4203	---	---
11AX20MIMO	Ant2	2462	18.898	2452.5334	2471.4314	---	---
11AX40MIMO	Ant1	2422	37.275	2403.3564	2440.6314	---	---
11AX40MIMO	Ant2	2422	37.325	2403.3464	2440.6714	---	---
11AX40MIMO	Ant1	2437	37.896	2418.0546	2455.9506	---	---
11AX40MIMO	Ant2	2437	37.831	2418.1056	2455.9366	---	---
11AX40MIMO	Ant1	2452	37.885	2433.0707	2470.9557	---	---
11AX40MIMO	Ant2	2452	37.858	2433.0598	2470.9178	---	---

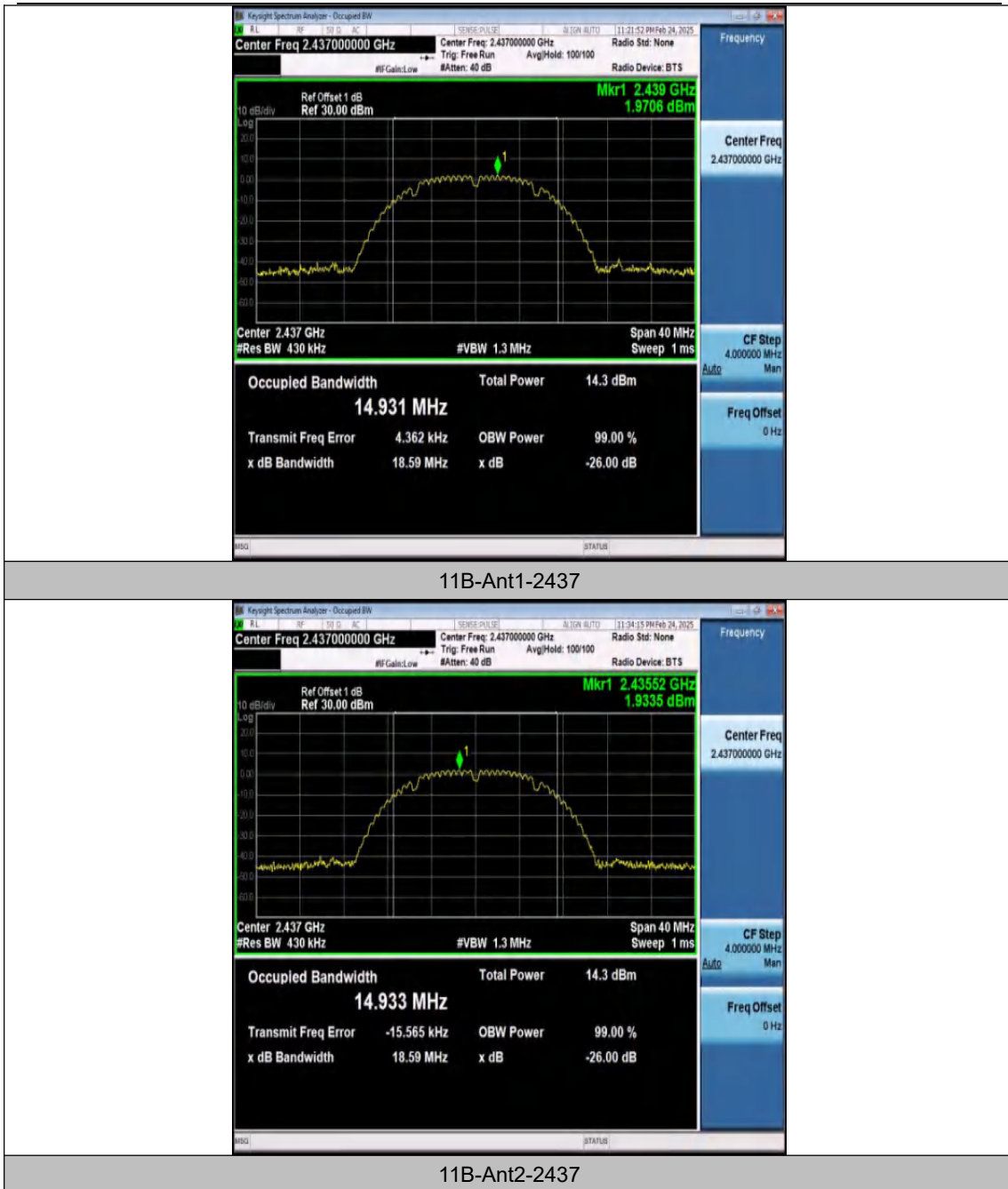
Test Graphs

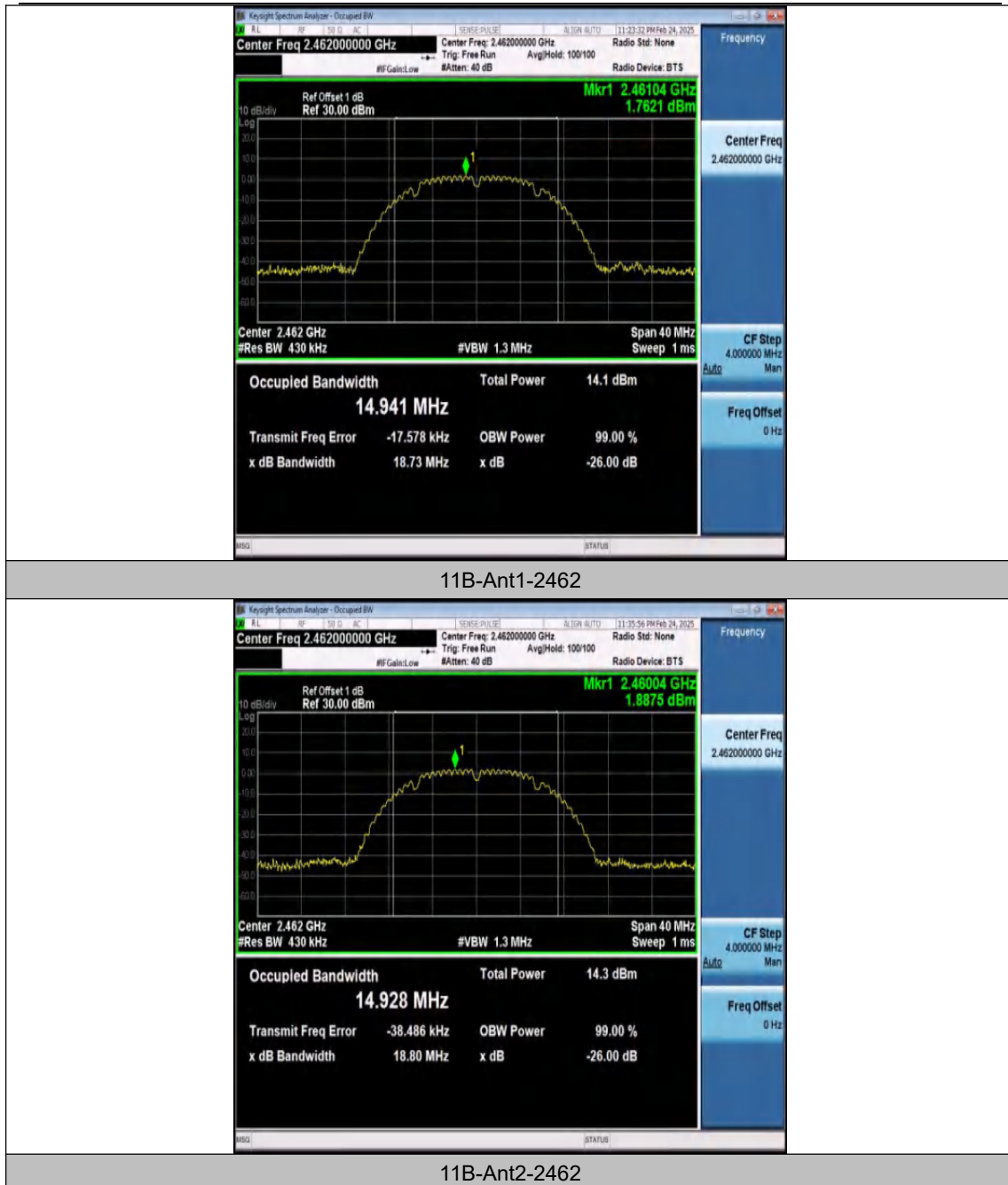


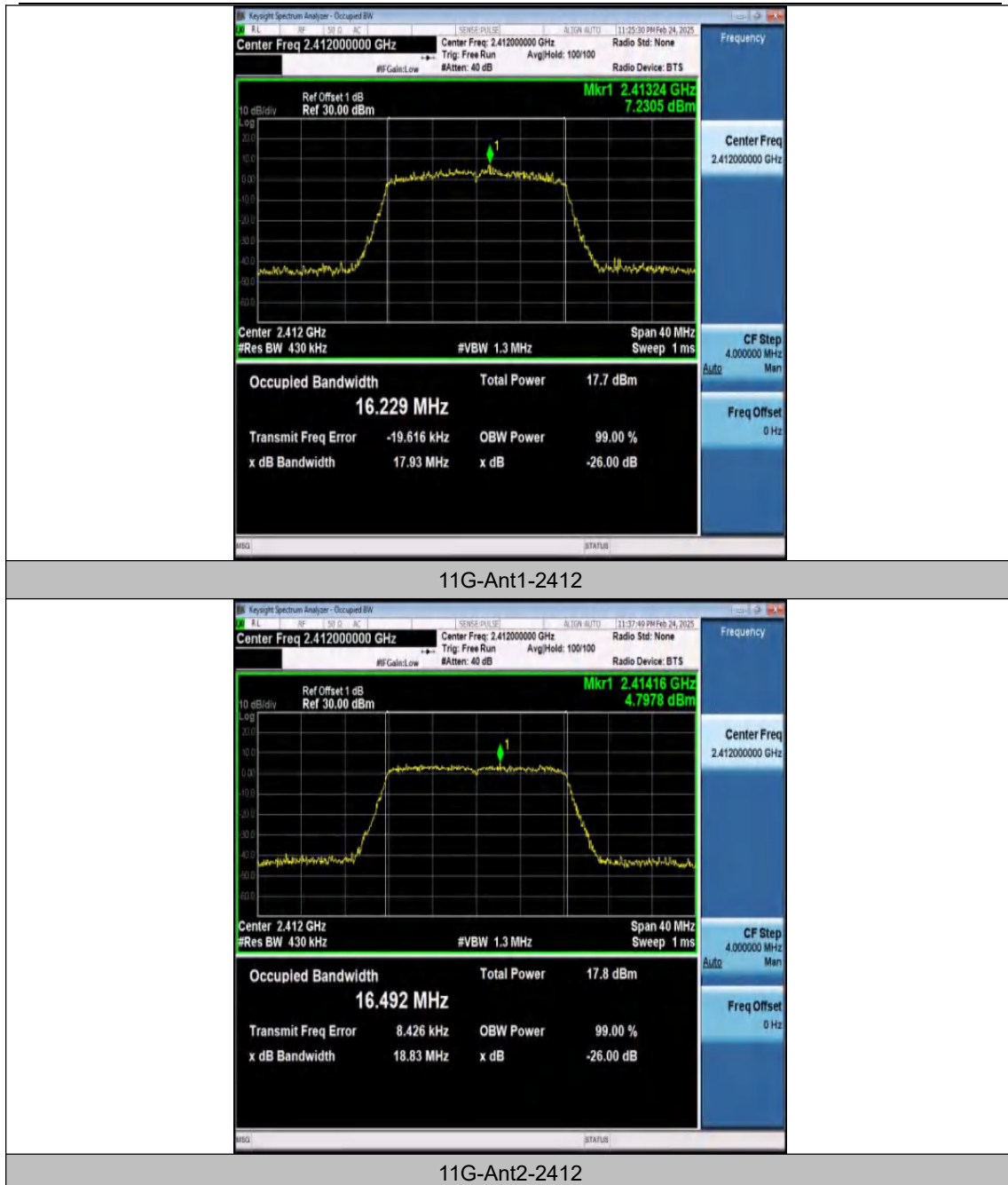
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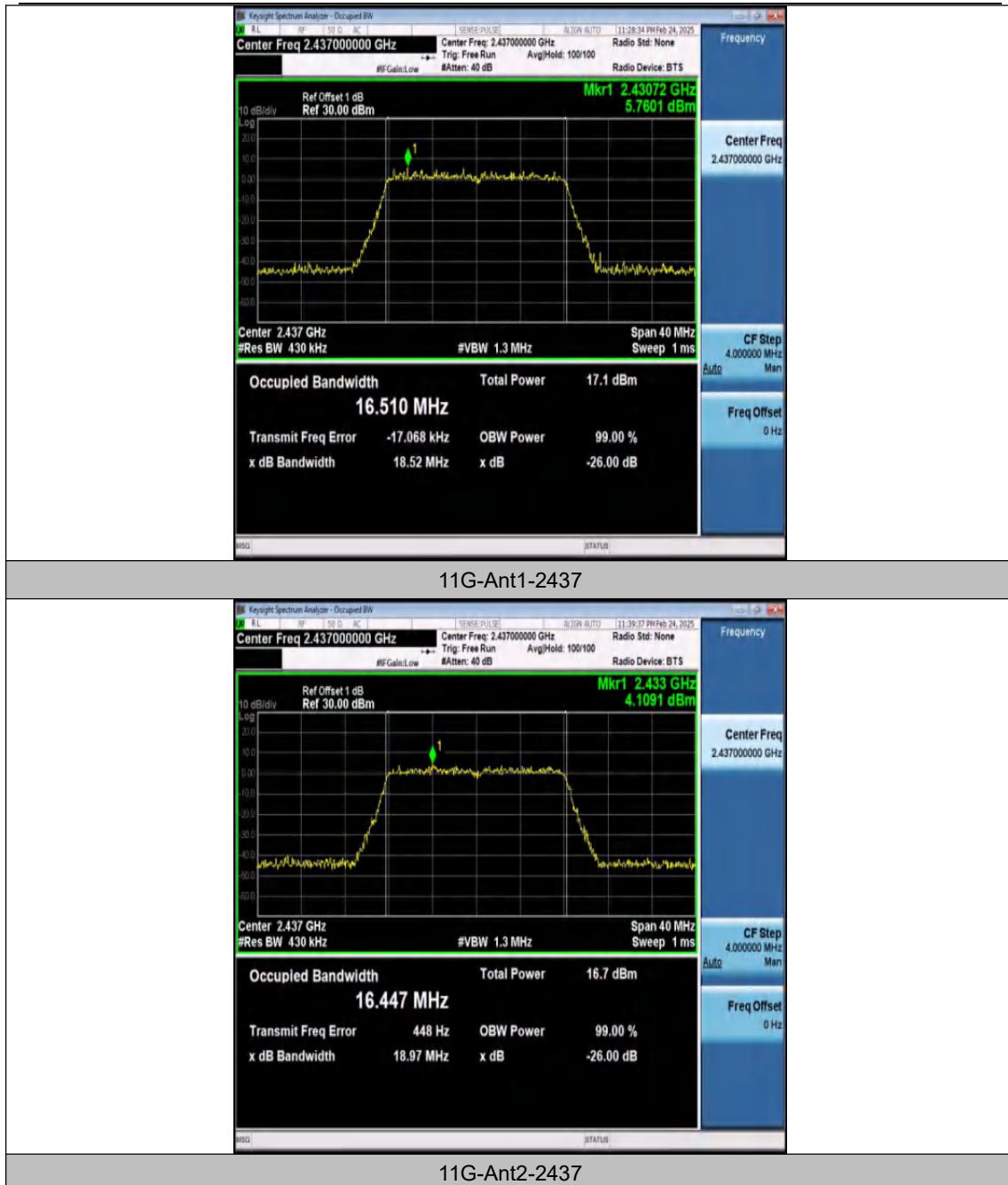
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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotech.com

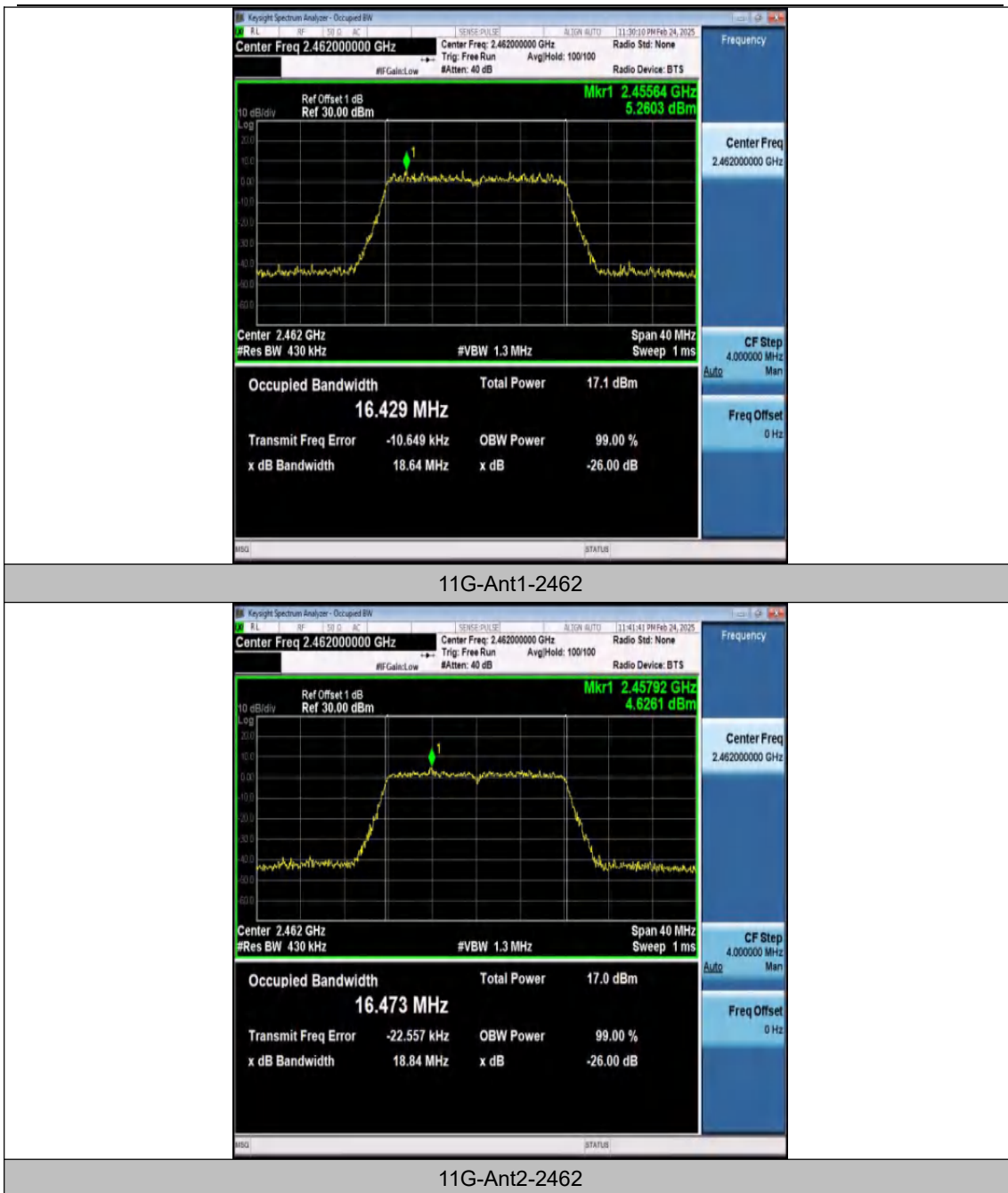
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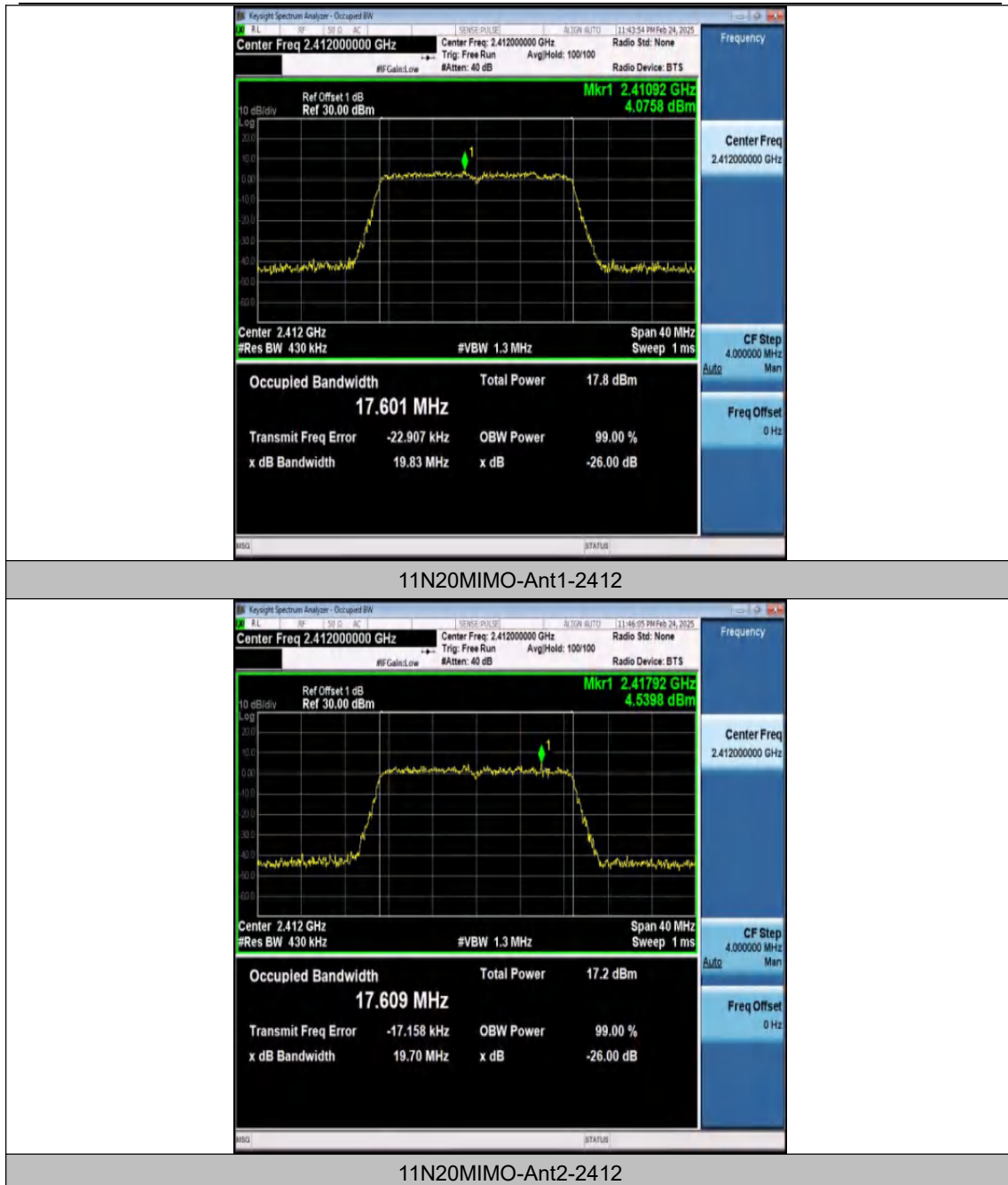


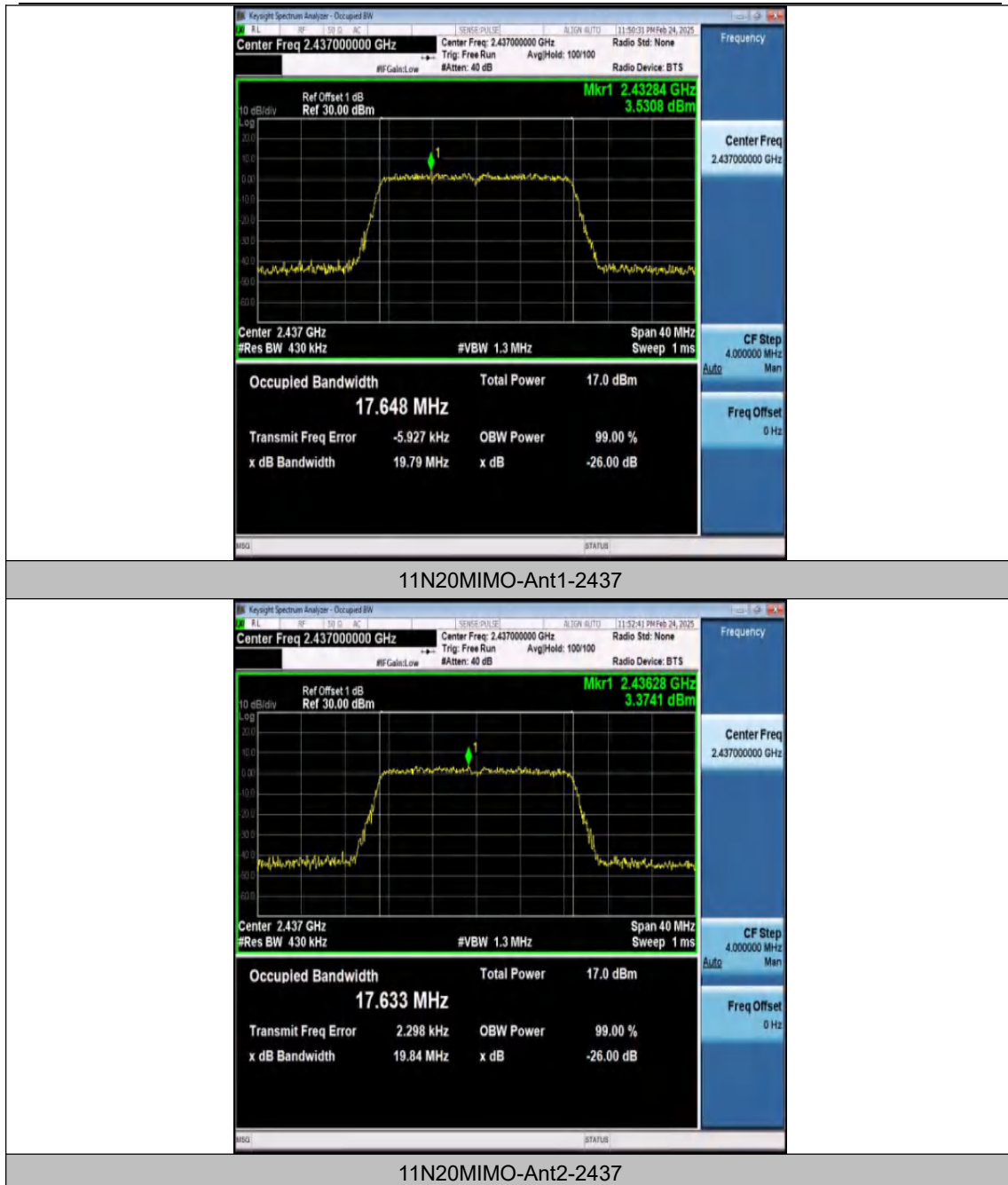


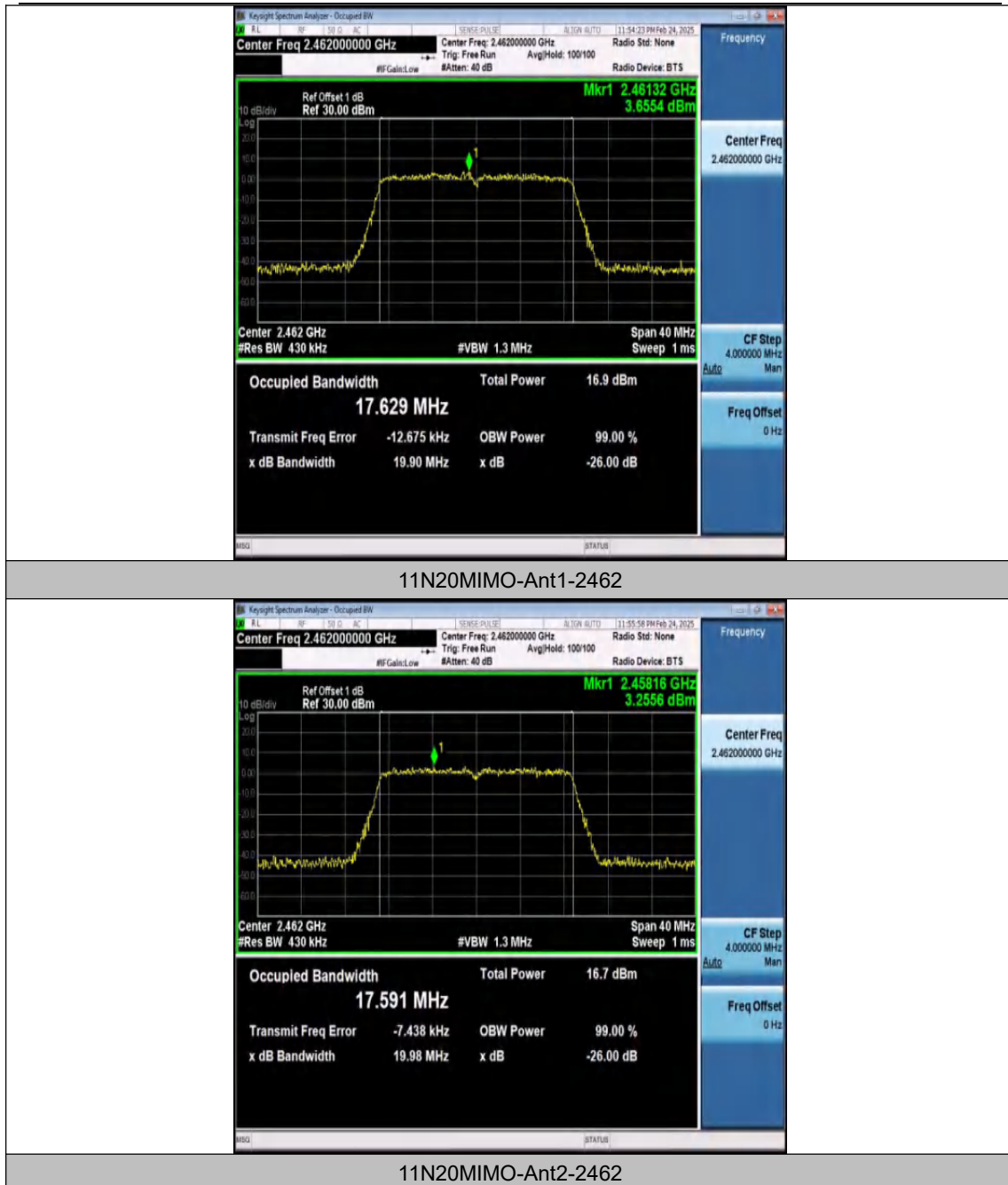


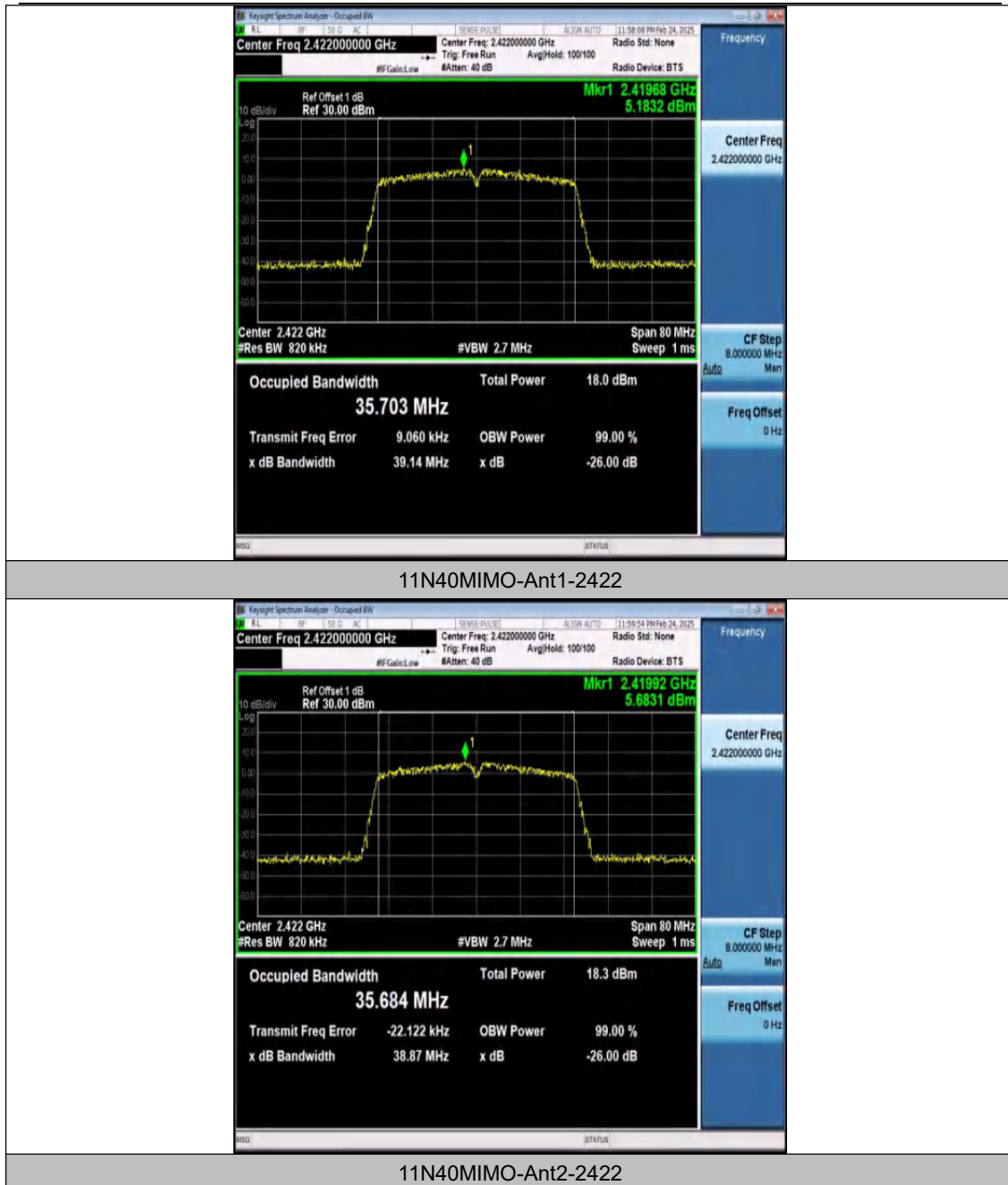


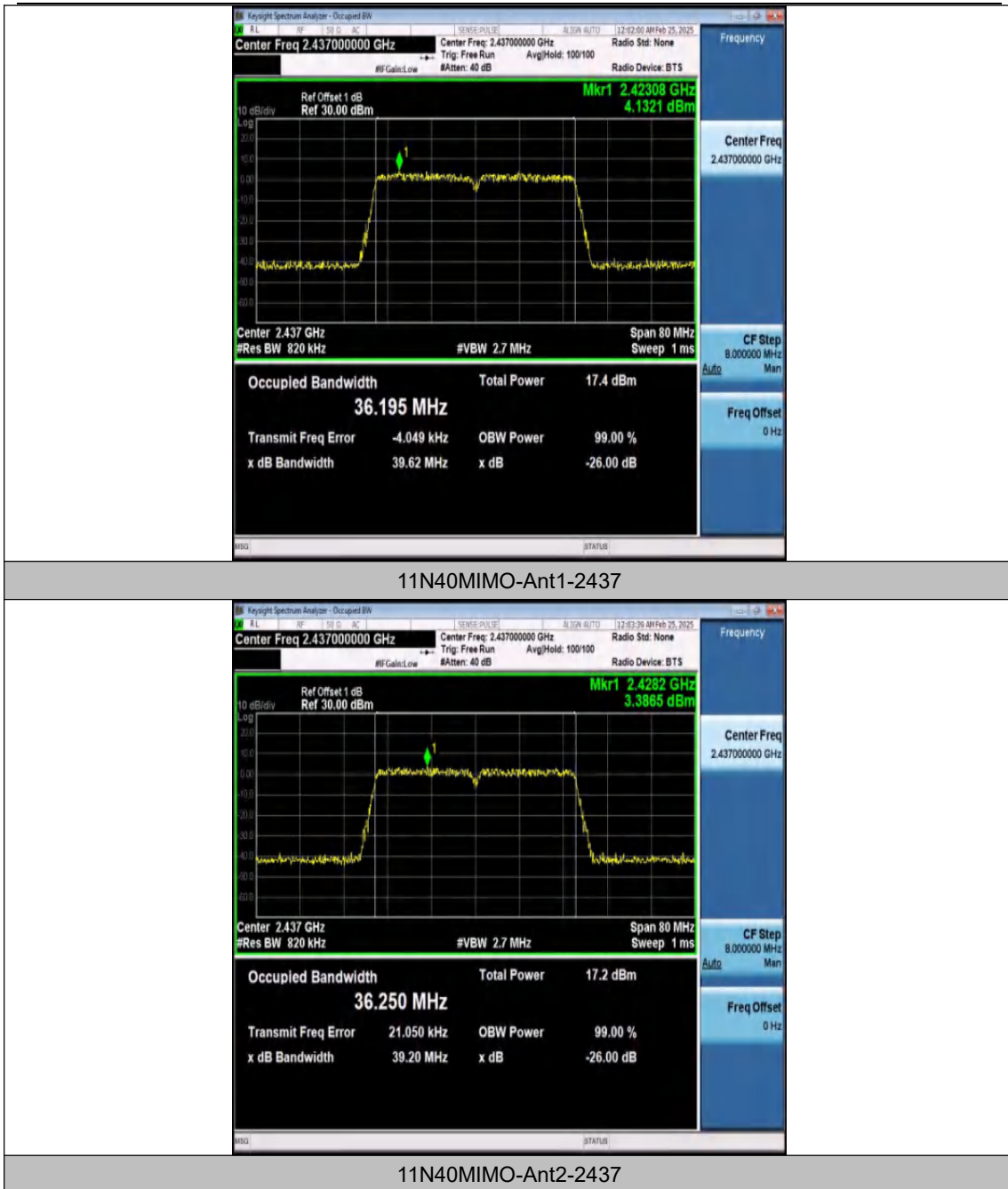








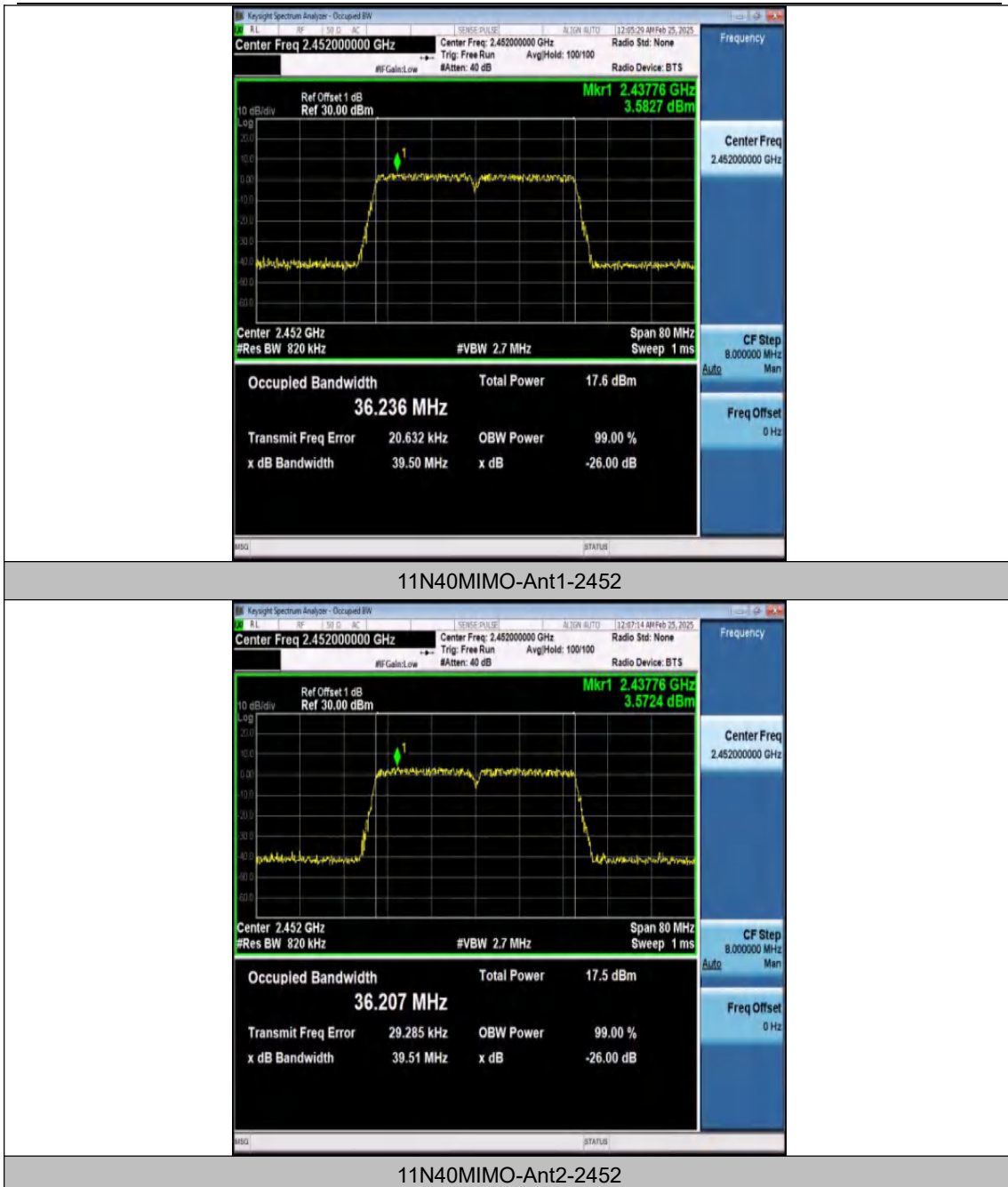


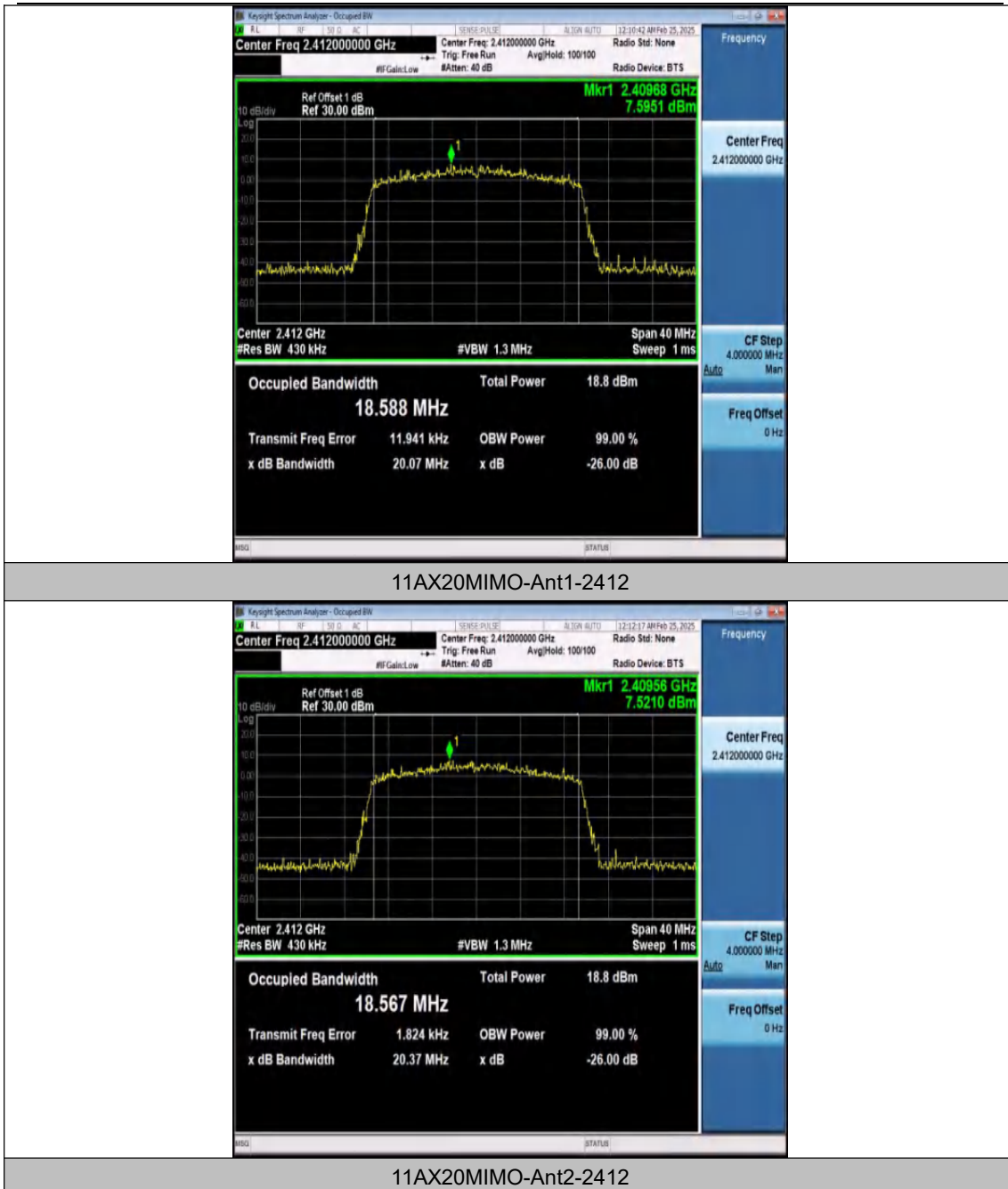


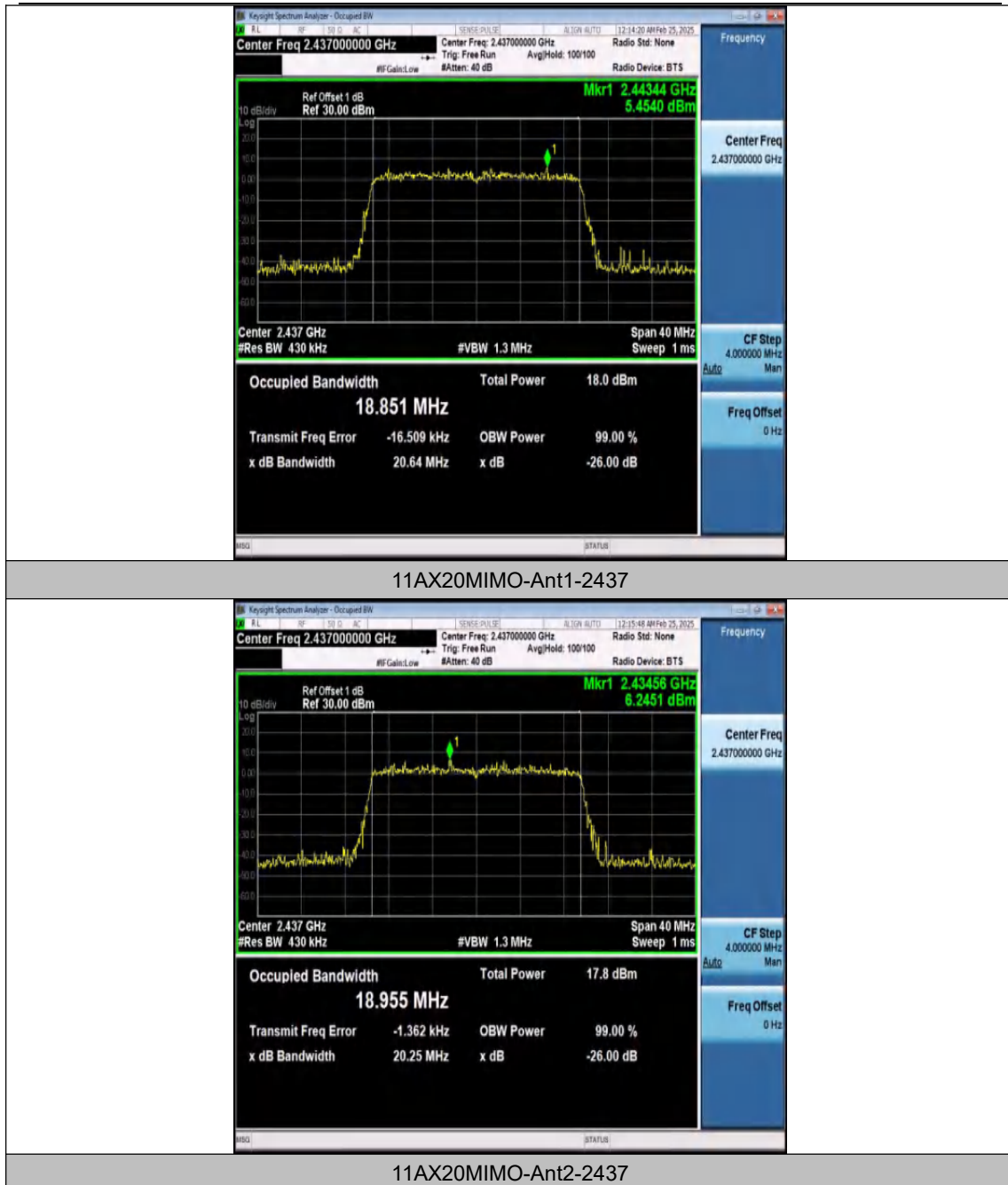
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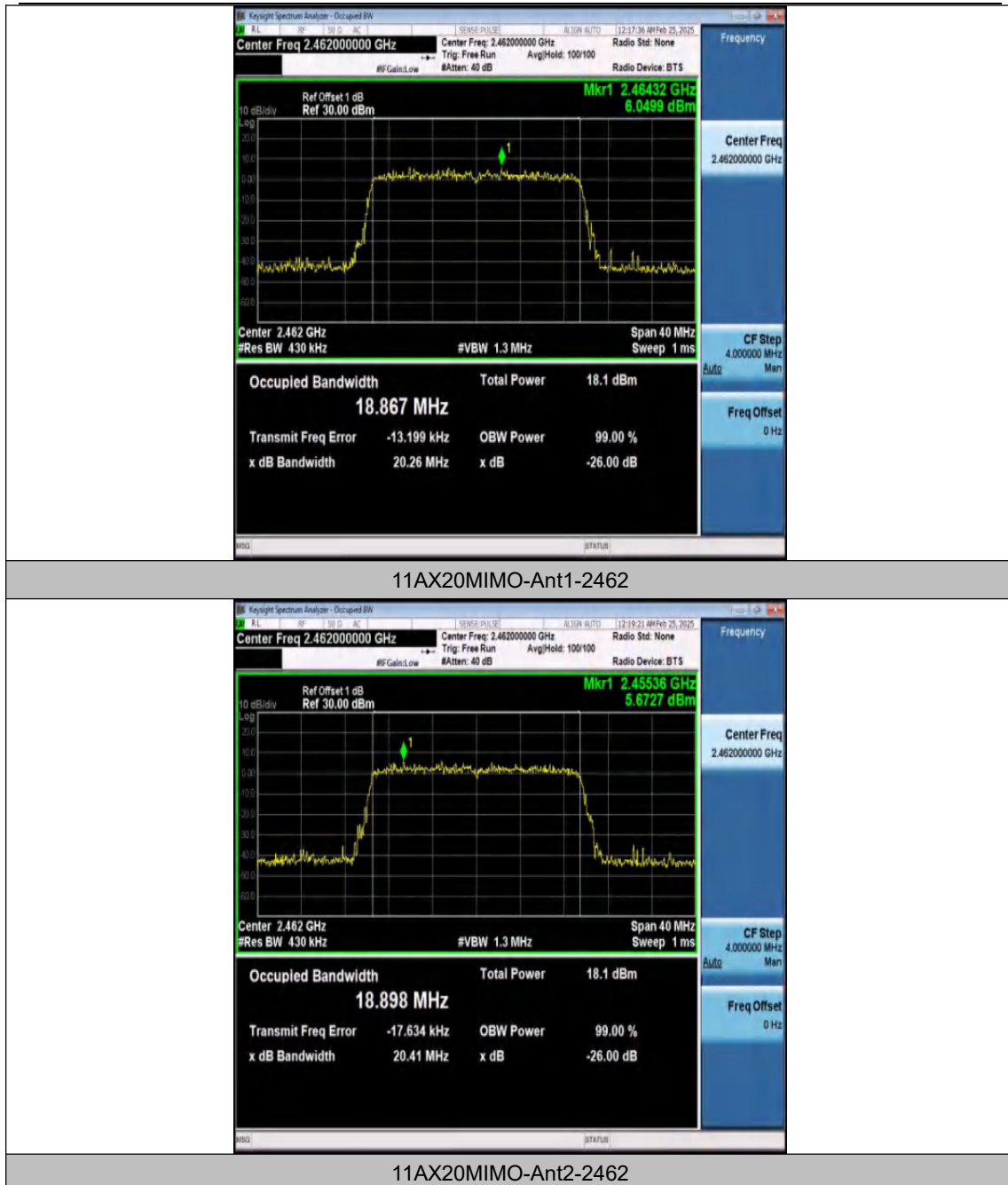
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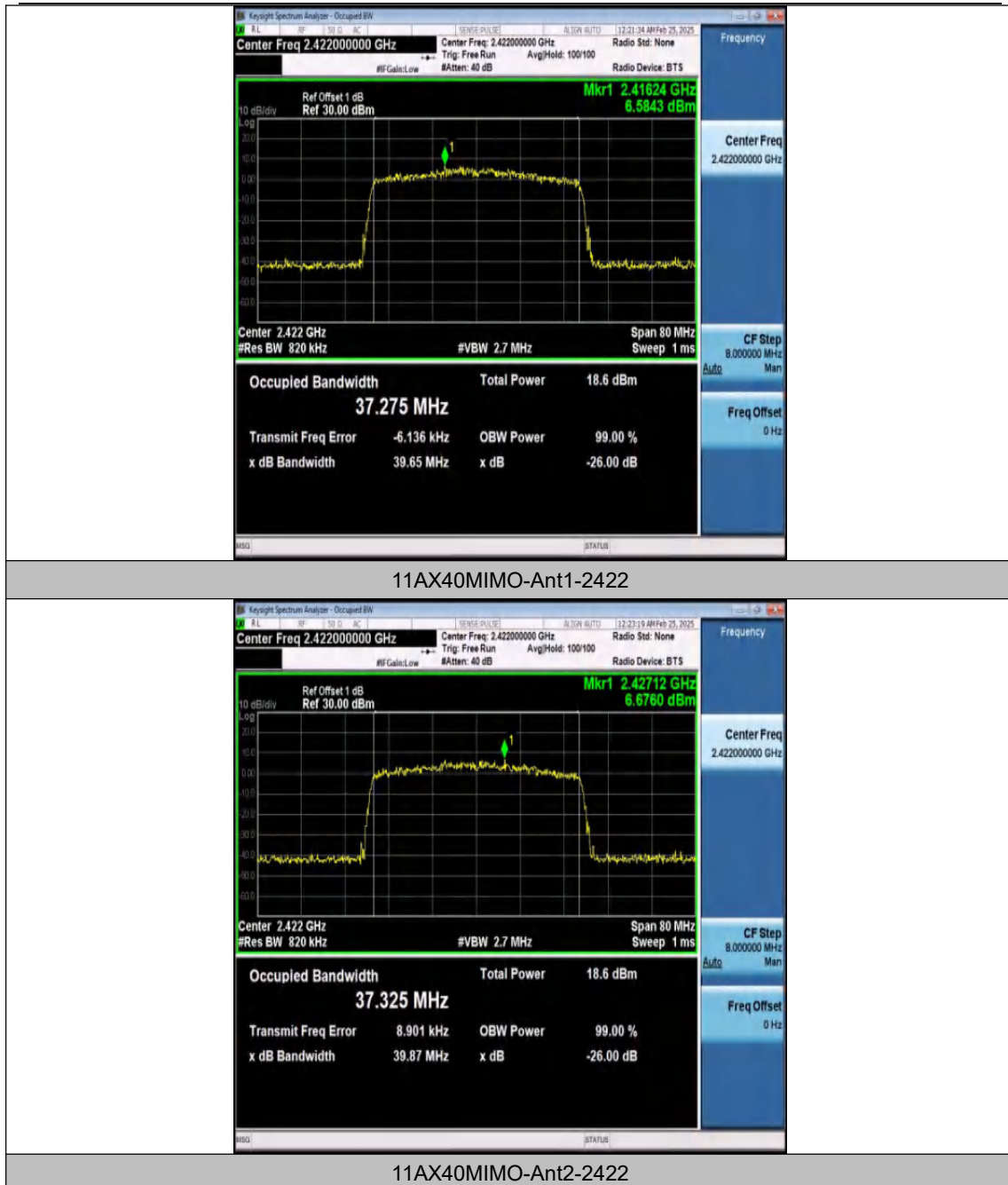
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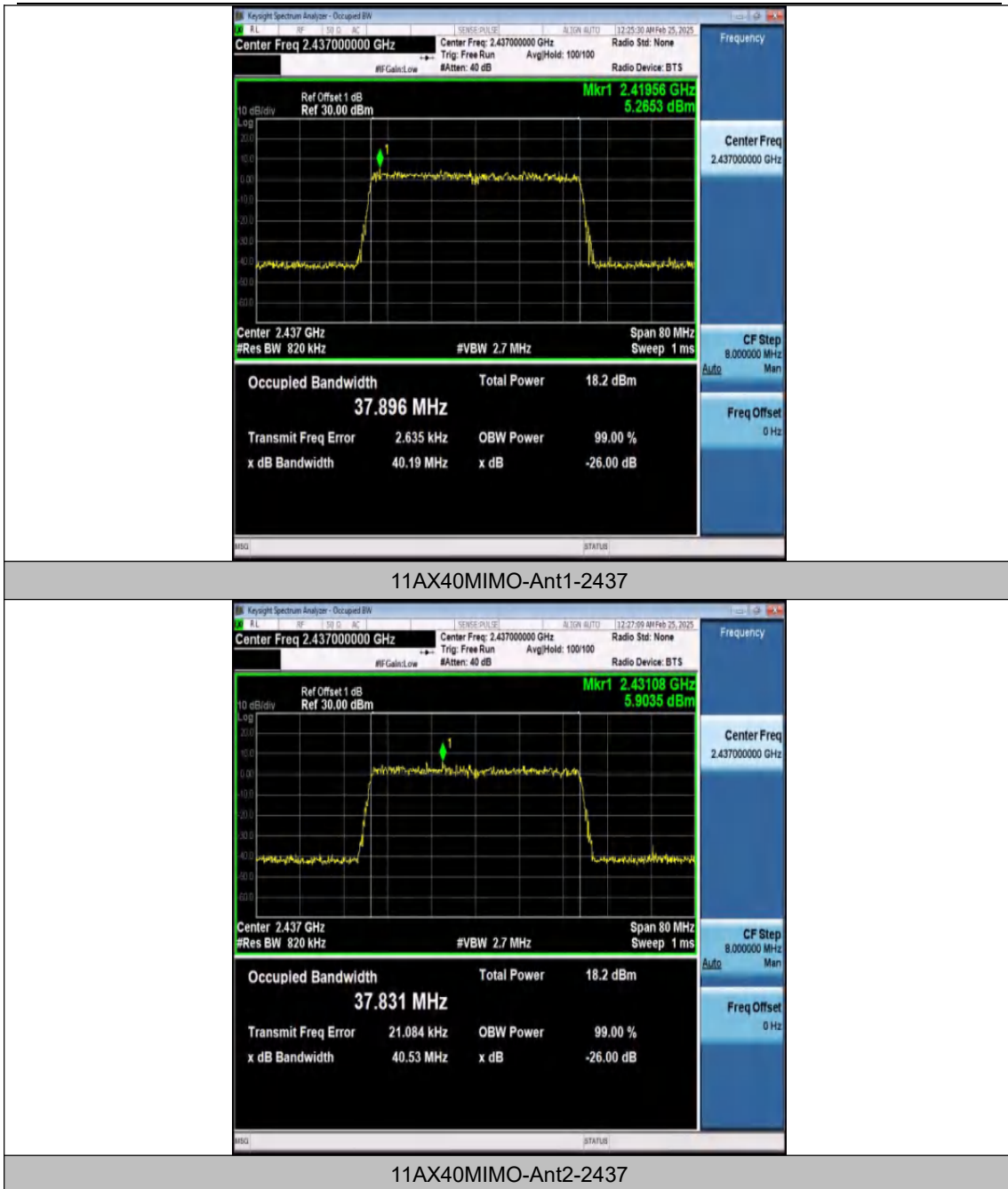


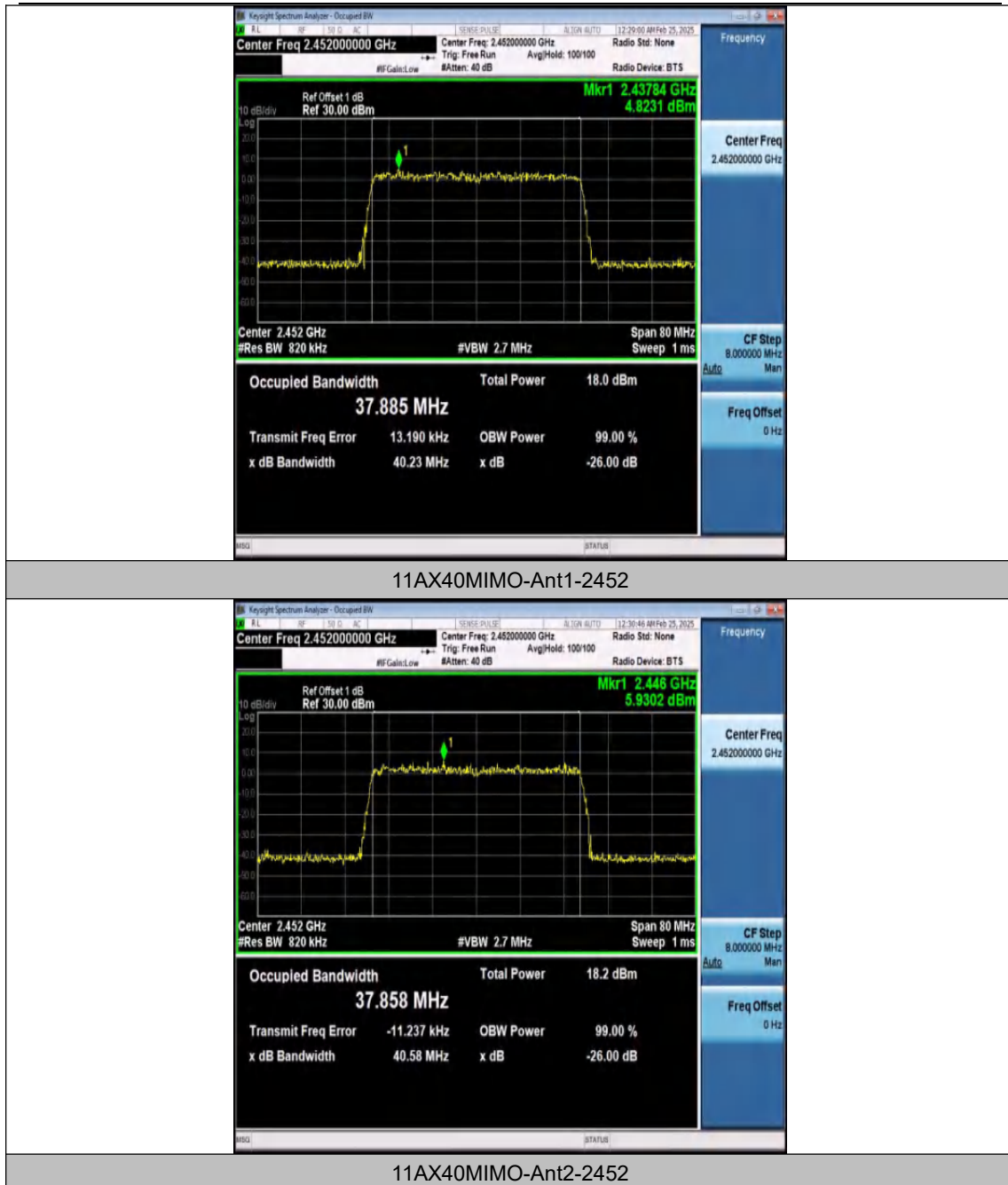












Appendix C: Maximum conducted output power

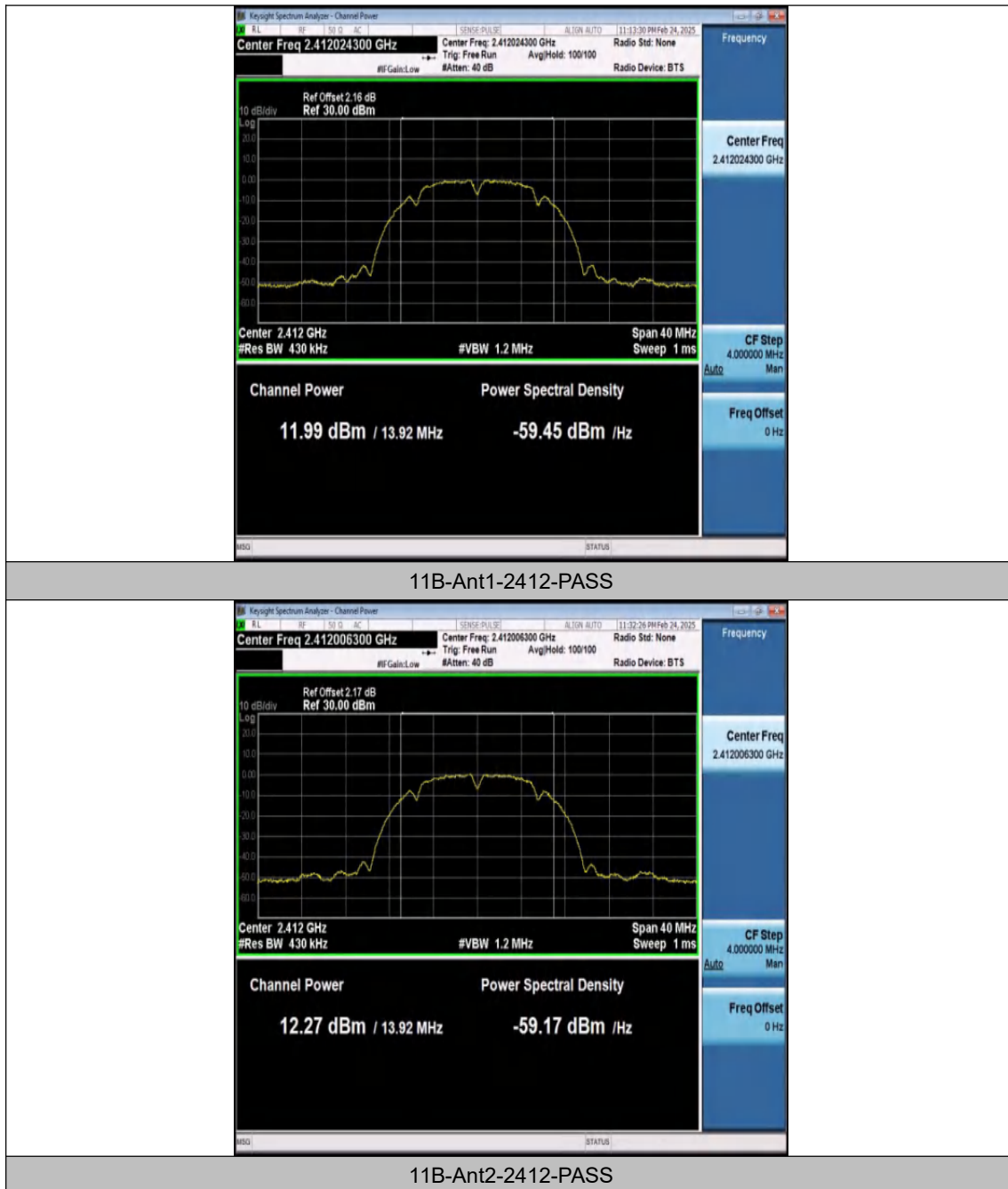
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	10.83	76.54	1.16	11.99	≤30.00	PASS
11B	Ant2	2412	11.10	76.47	1.17	12.27	≤30.00	PASS
11B	Ant1	2437	9.97	76.47	1.17	11.14	≤30.00	PASS
11B	Ant2	2437	10.23	76.47	1.17	11.40	≤30.00	PASS
11B	Ant1	2462	9.84	76.47	1.17	11.01	≤30.00	PASS
11B	Ant2	2462	10.18	76.47	1.17	11.35	≤30.00	PASS
11G	Ant1	2412	7.09	34.88	4.57	11.66	≤30.00	PASS
11G	Ant2	2412	7.95	34.88	4.57	12.52	≤30.00	PASS
11G	Ant1	2437	5.91	34.88	4.57	10.48	≤30.00	PASS
11G	Ant2	2437	7.23	34.88	4.57	11.80	≤30.00	PASS
11G	Ant1	2462	8.31	34.88	4.57	12.88	≤30.00	PASS
11G	Ant2	2462	7.78	34.88	4.57	12.35	≤30.00	PASS
11N20MIMO	Ant1	2412	7.89	33.33	4.77	12.66	≤30.00	PASS
11N20MIMO	Ant2	2412	8.47	33.33	4.77	13.24	≤30.00	PASS
11N20MIMO	total	2412	---	---	---	15.97	≤30.00	PASS
11N20MIMO	Ant1	2437	7.22	33.33	4.77	11.99	≤30.00	PASS
11N20MIMO	Ant2	2437	6.15	33.33	4.77	10.92	≤30.00	PASS
11N20MIMO	total	2437	---	---	---	14.50	≤30.00	PASS
11N20MIMO	Ant1	2462	7.18	33.33	4.77	11.95	≤30.00	PASS
11N20MIMO	Ant2	2462	5.67	33.33	4.77	10.44	≤30.00	PASS
11N20MIMO	total	2462	---	---	---	14.27	≤30.00	PASS
11N40MIMO	Ant1	2422	5.02	20.00	6.99	12.01	≤30.00	PASS
11N40MIMO	Ant2	2422	5.07	20.00	6.99	12.06	≤30.00	PASS
11N40MIMO	total	2422	---	---	---	15.05	≤30.00	PASS
11N40MIMO	Ant1	2437	4.03	20.00	6.99	11.02	≤30.00	PASS
11N40MIMO	Ant2	2437	4.84	20.00	6.99	11.83	≤30.00	PASS
11N40MIMO	total	2437	---	---	---	14.45	≤30.00	PASS
11N40MIMO	Ant1	2452	4.91	20.00	6.99	11.90	≤30.00	PASS
11N40MIMO	Ant2	2452	4.85	20.00	6.99	11.84	≤30.00	PASS
11N40MIMO	total	2452	---	---	---	14.88	≤30.00	PASS
11AX20MIMO	Ant1	2412	7.43	31.15	5.07	12.50	≤30.00	PASS
11AX20MIMO	Ant2	2412	7.50	31.15	5.07	12.57	≤30.00	PASS
11AX20MIMO	total	2412	---	---	---	15.55	≤30.00	PASS
11AX20MIMO	Ant1	2437	5.71	31.15	5.07	10.78	≤30.00	PASS
11AX20MIMO	Ant2	2437	7.38	31.71	4.99	12.37	≤30.00	PASS
11AX20MIMO	total	2437	---	---	---	14.66	≤30.00	PASS

11AX20MIMO	Ant1	2462	6.61	31.15	5.07	11.68	≤30.00	PASS
11AX20MIMO	Ant2	2462	6.93	31.71	4.99	11.92	≤30.00	PASS
11AX20MIMO	total	2462	---	---	---	14.81	≤30.00	PASS
11AX40MIMO	Ant1	2422	5.00	19.23	7.16	12.16	≤30.00	PASS
11AX40MIMO	Ant2	2422	4.85	19.23	7.16	12.01	≤30.00	PASS
11AX40MIMO	total	2422	---	---	---	15.10	≤30.00	PASS
11AX40MIMO	Ant1	2437	4.66	19.23	7.16	11.82	≤30.00	PASS
11AX40MIMO	Ant2	2437	4.61	19.23	7.16	11.77	≤30.00	PASS
11AX40MIMO	total	2437	---	---	---	14.81	≤30.00	PASS
11AX40MIMO	Ant1	2452	4.81	19.23	7.16	11.97	≤30.00	PASS
11AX40MIMO	Ant2	2452	4.41	19.23	7.16	11.57	≤30.00	PASS
11AX40MIMO	total	2452	---	---	---	14.78	≤30.00	PASS

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

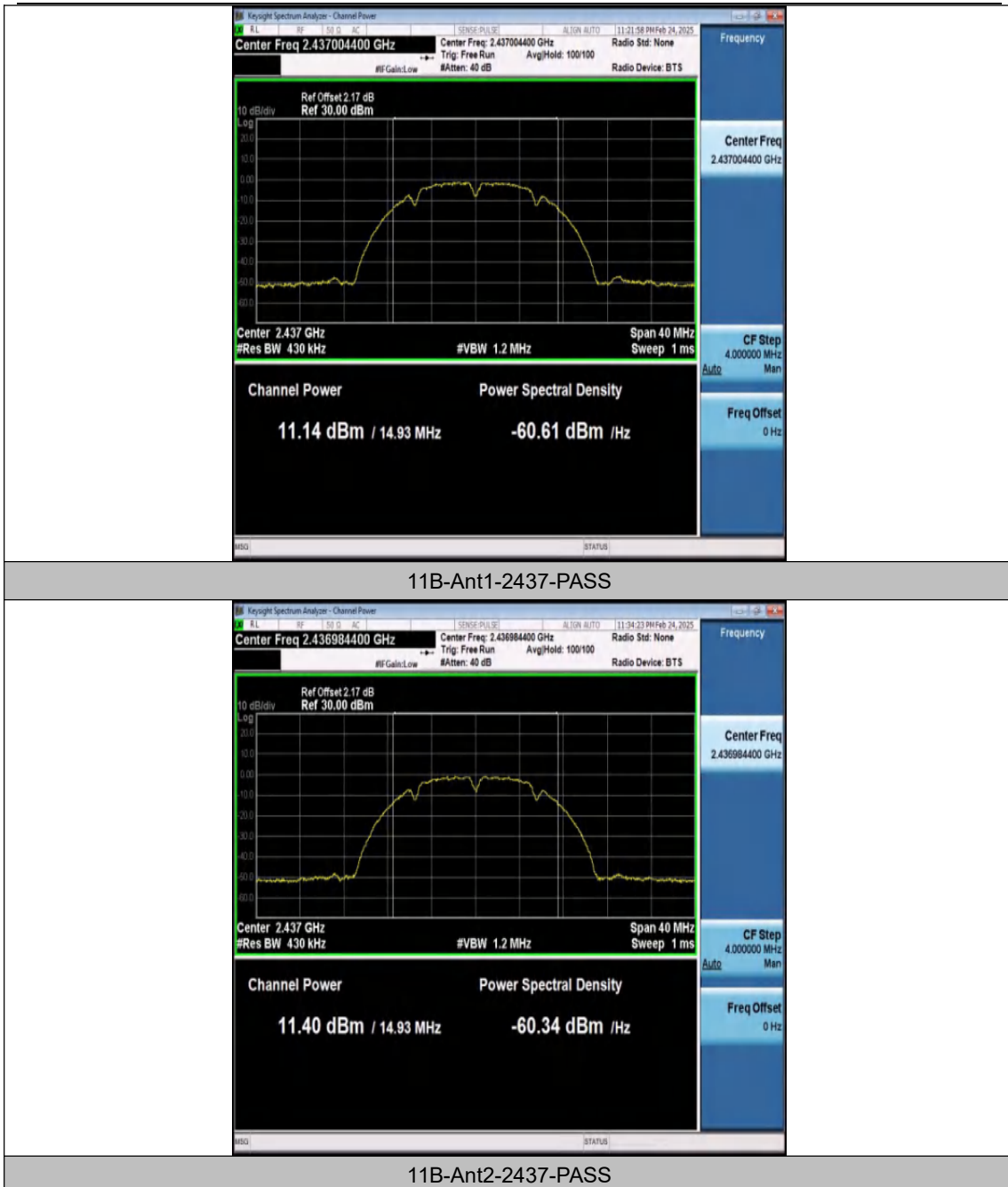
Test Graphs Average

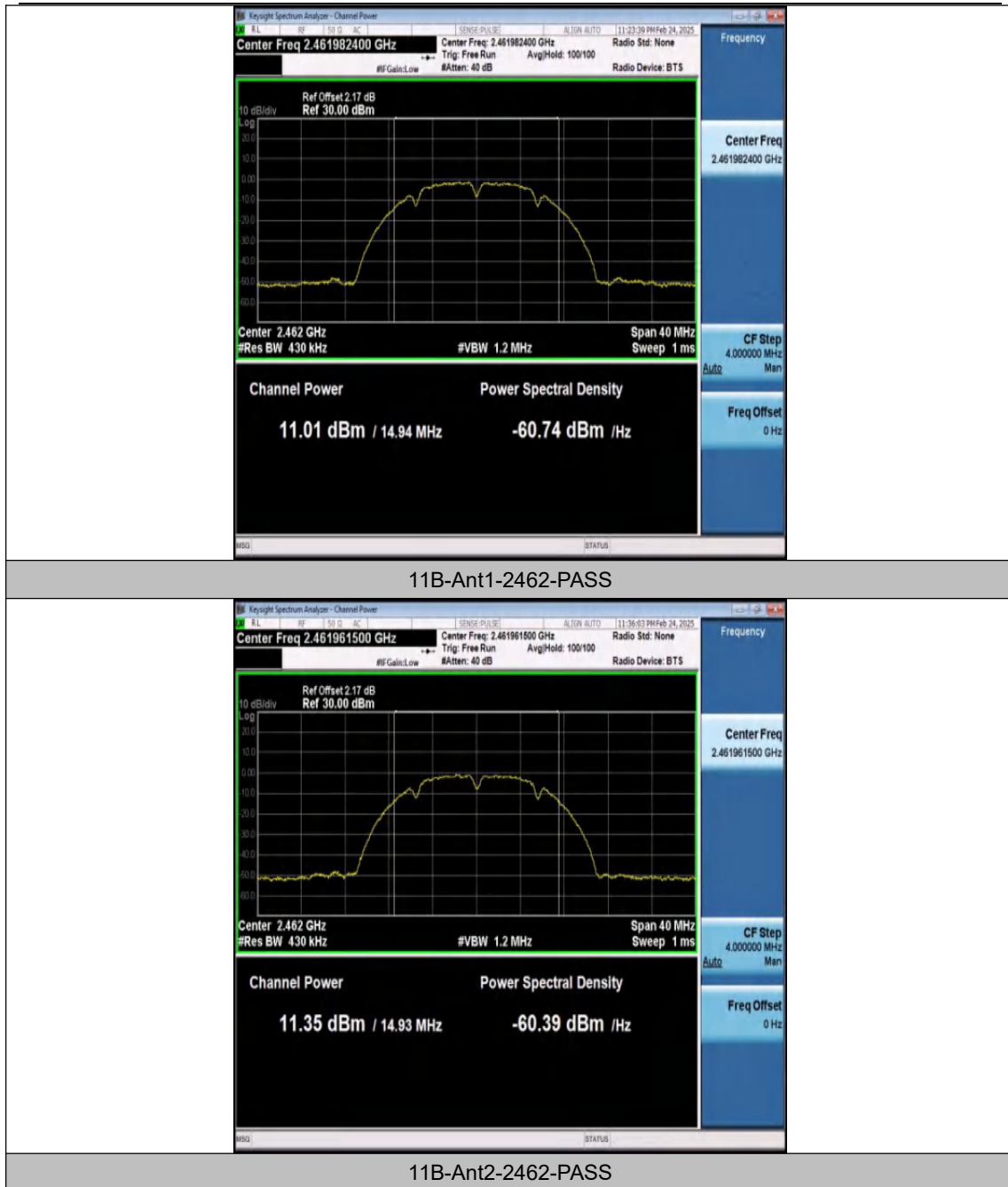


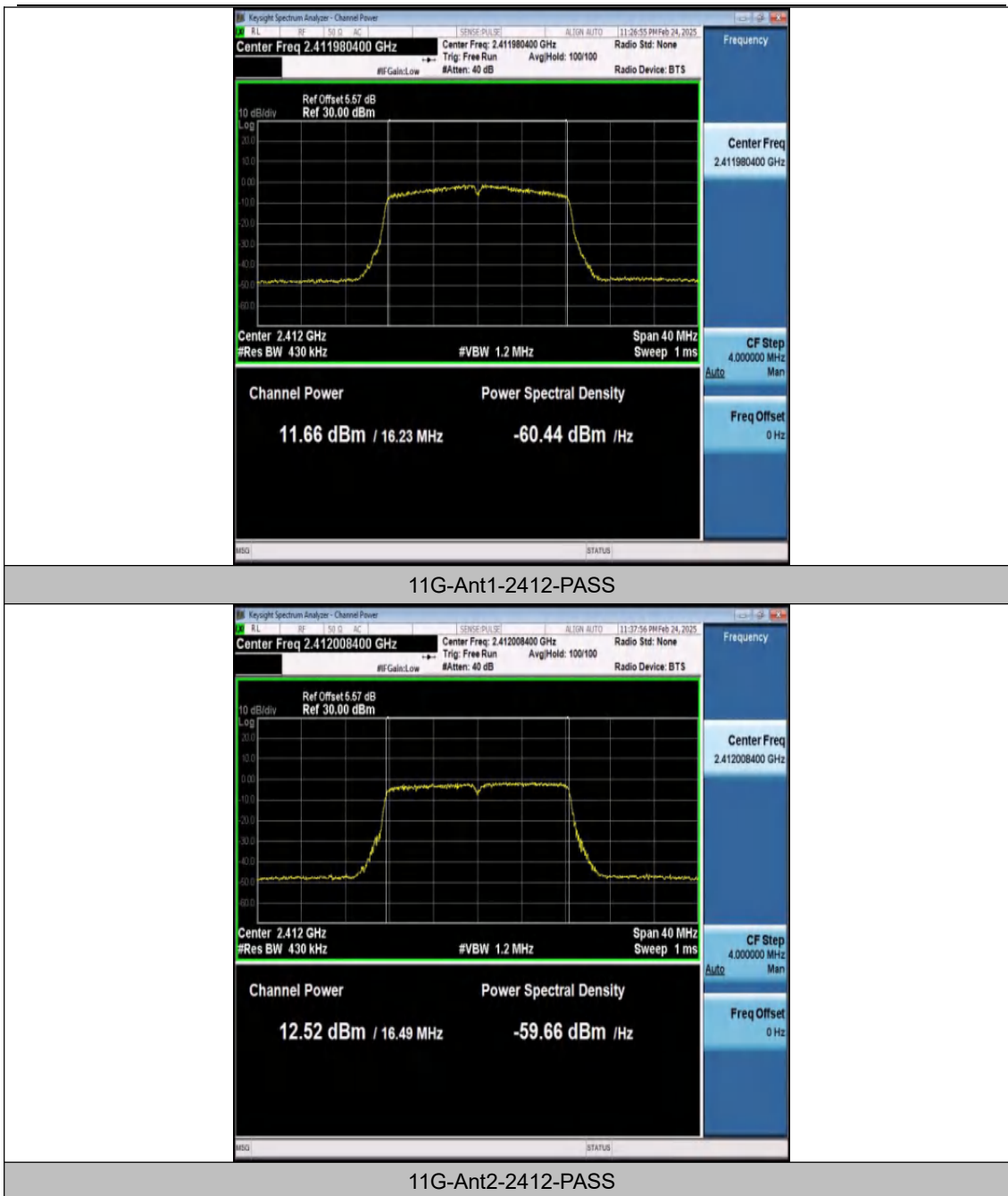
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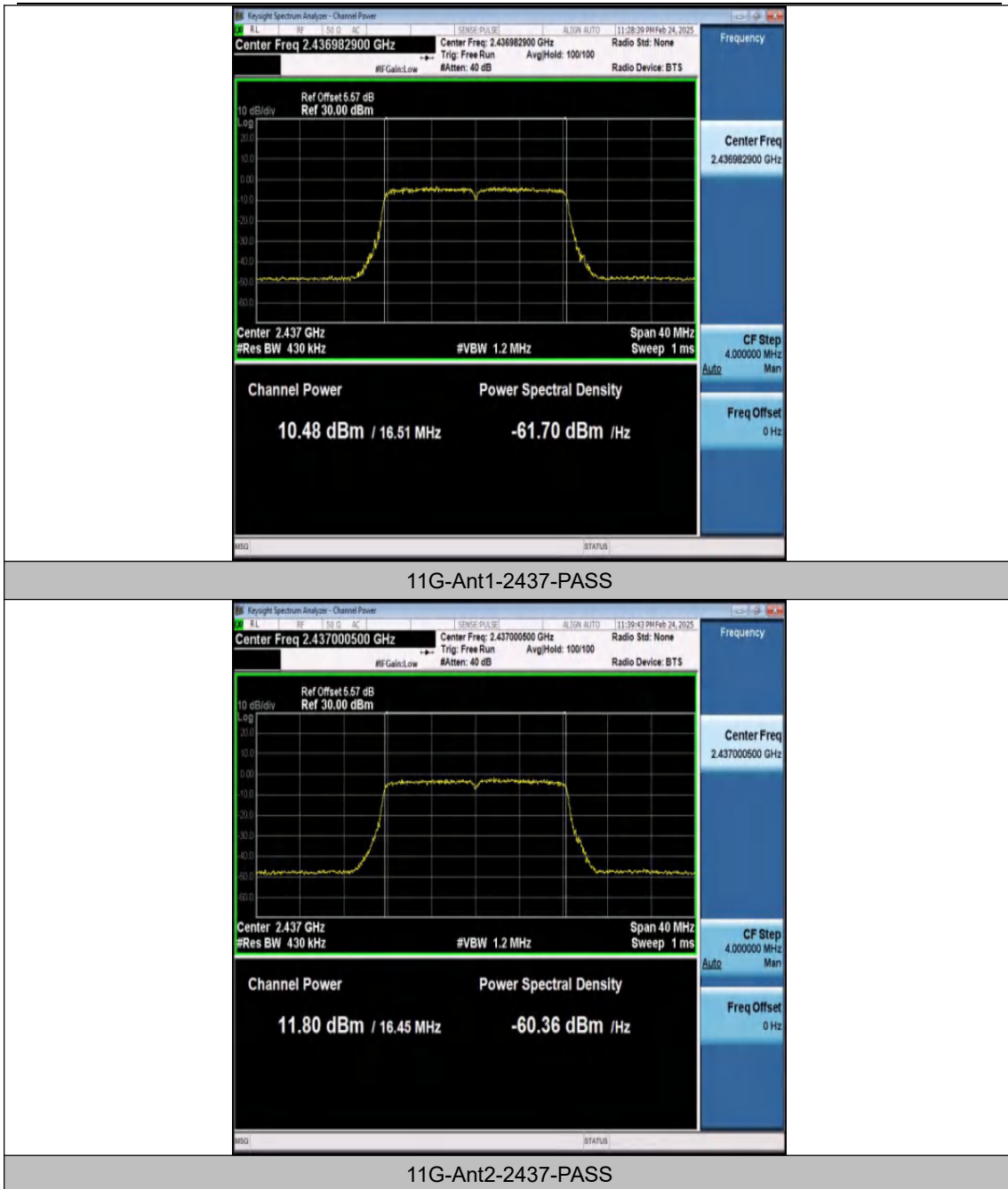
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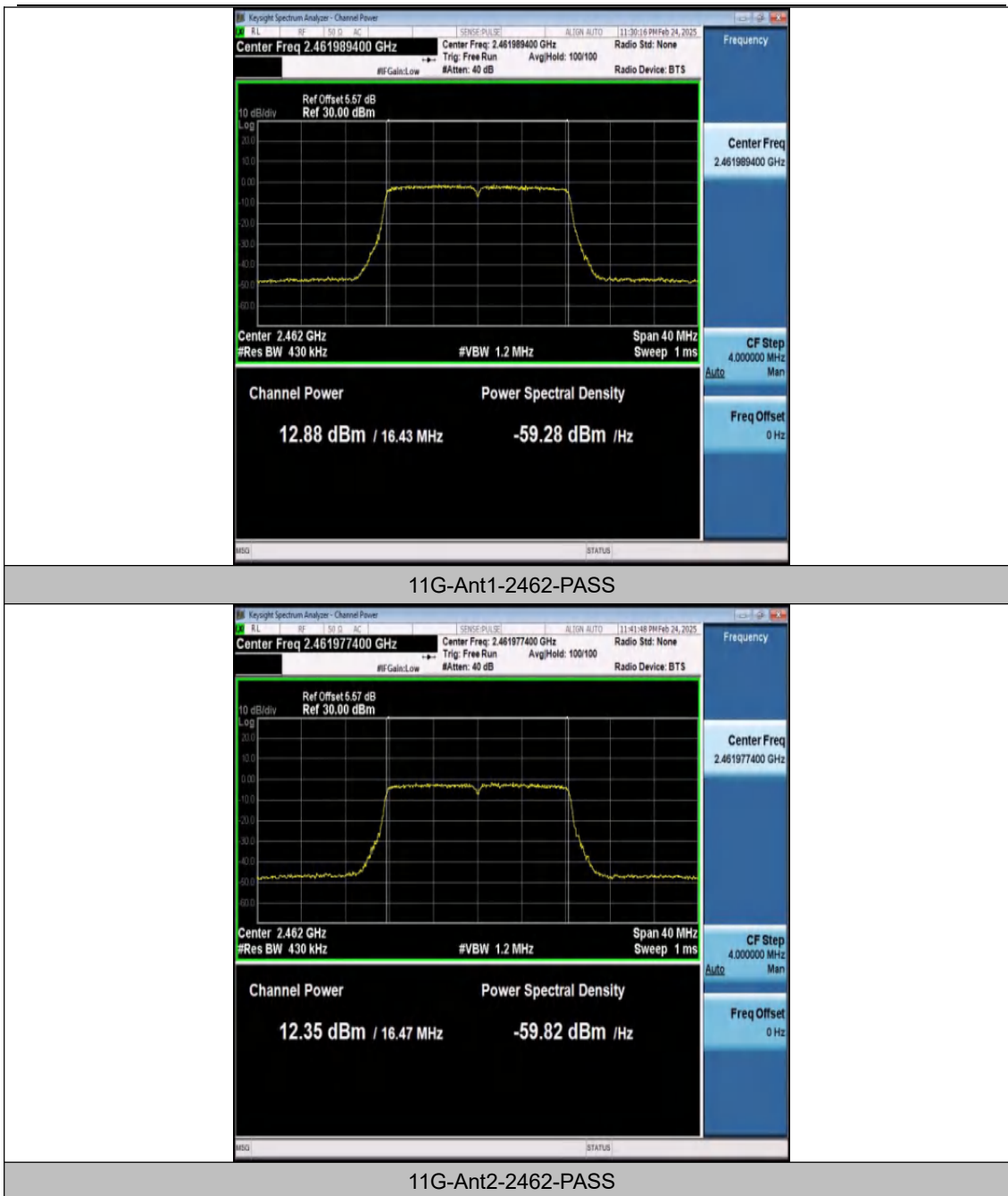
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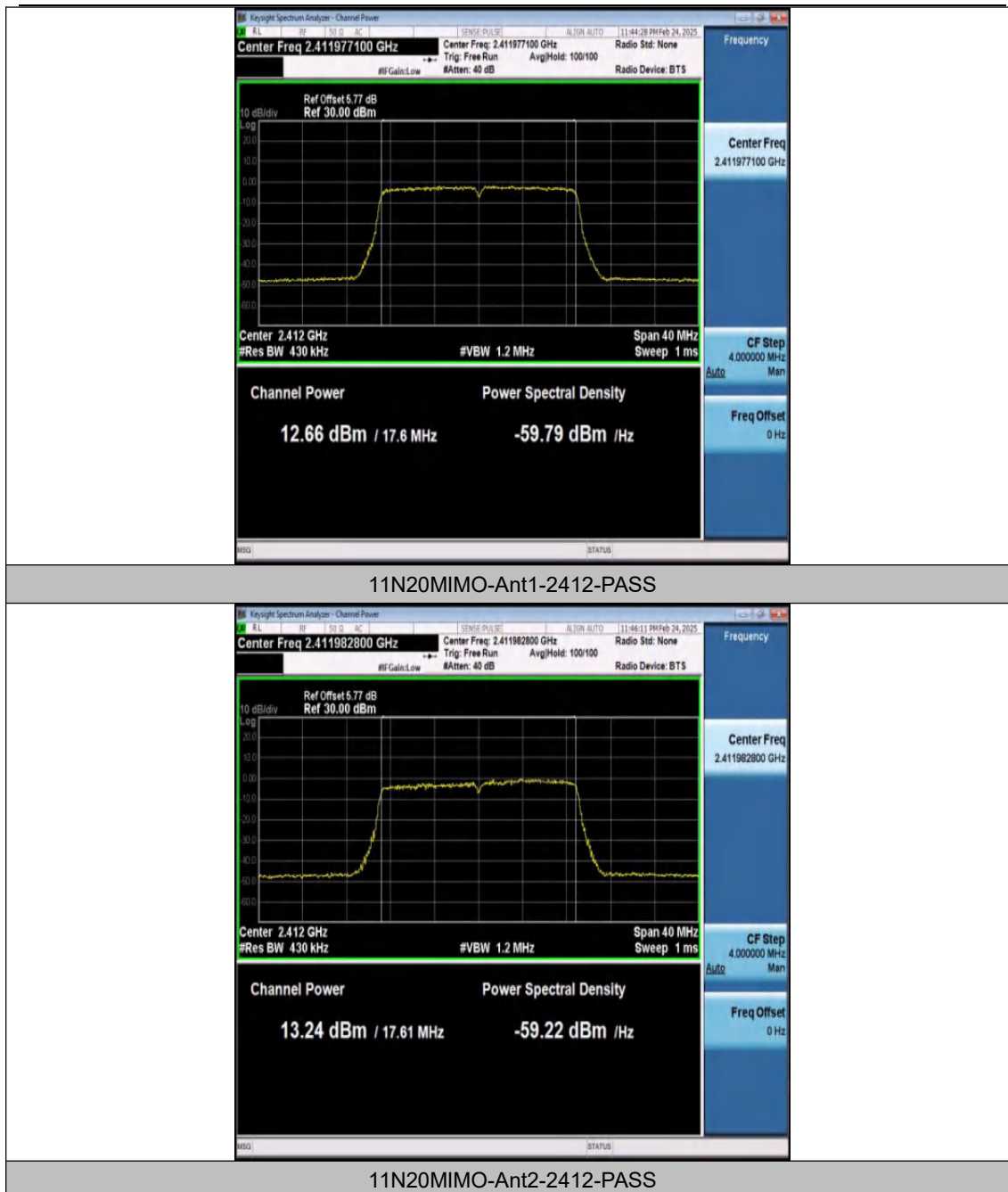


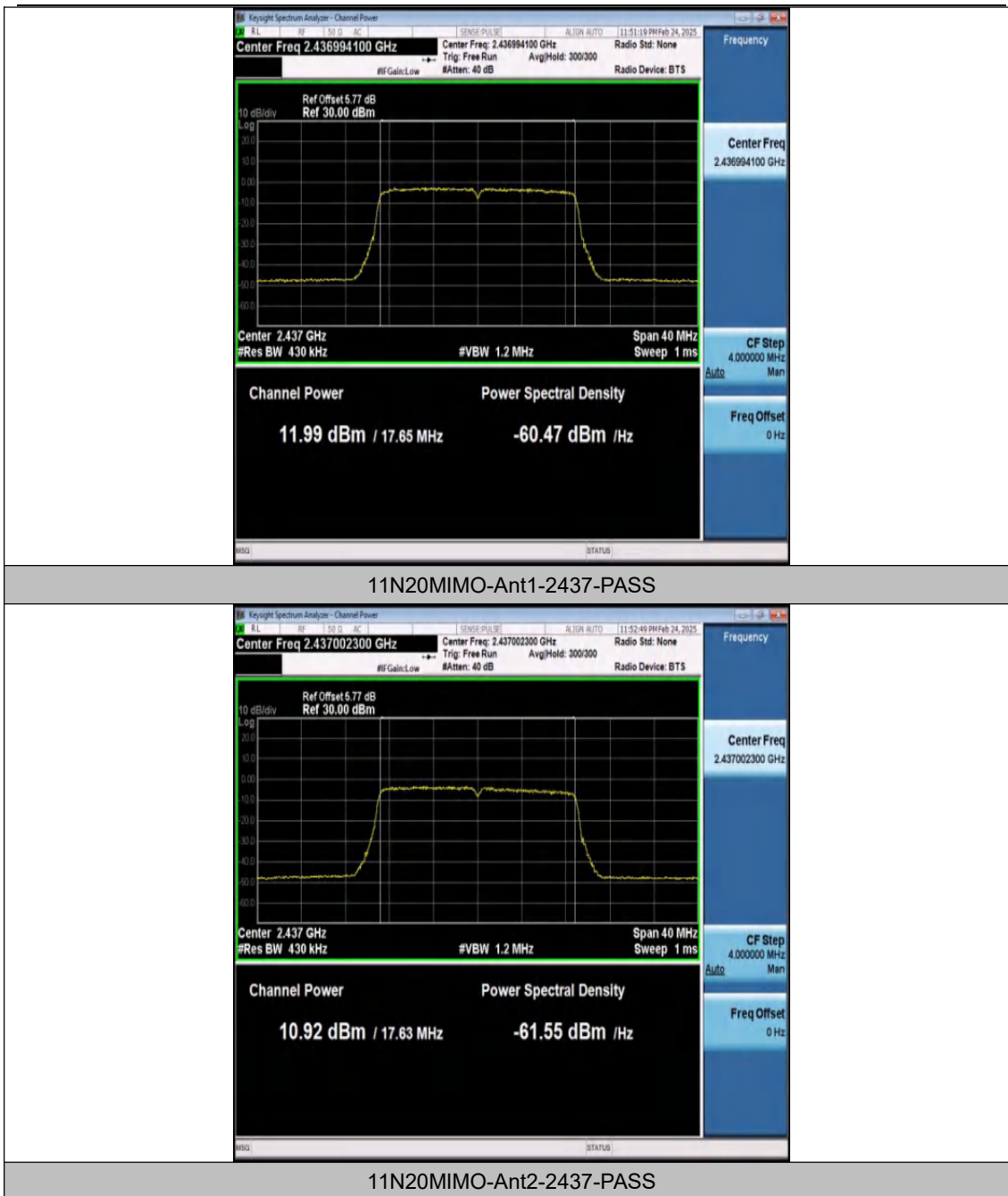


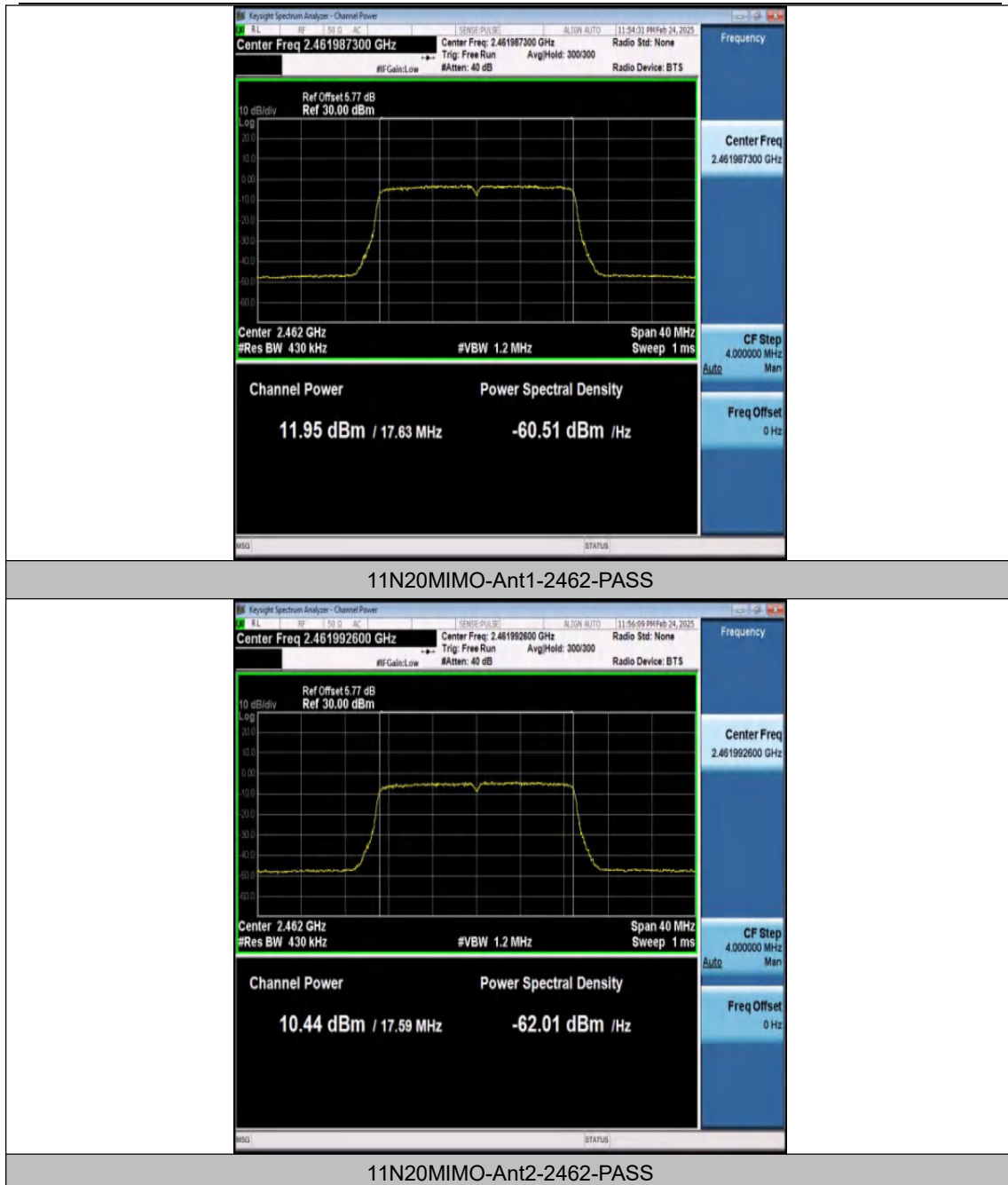


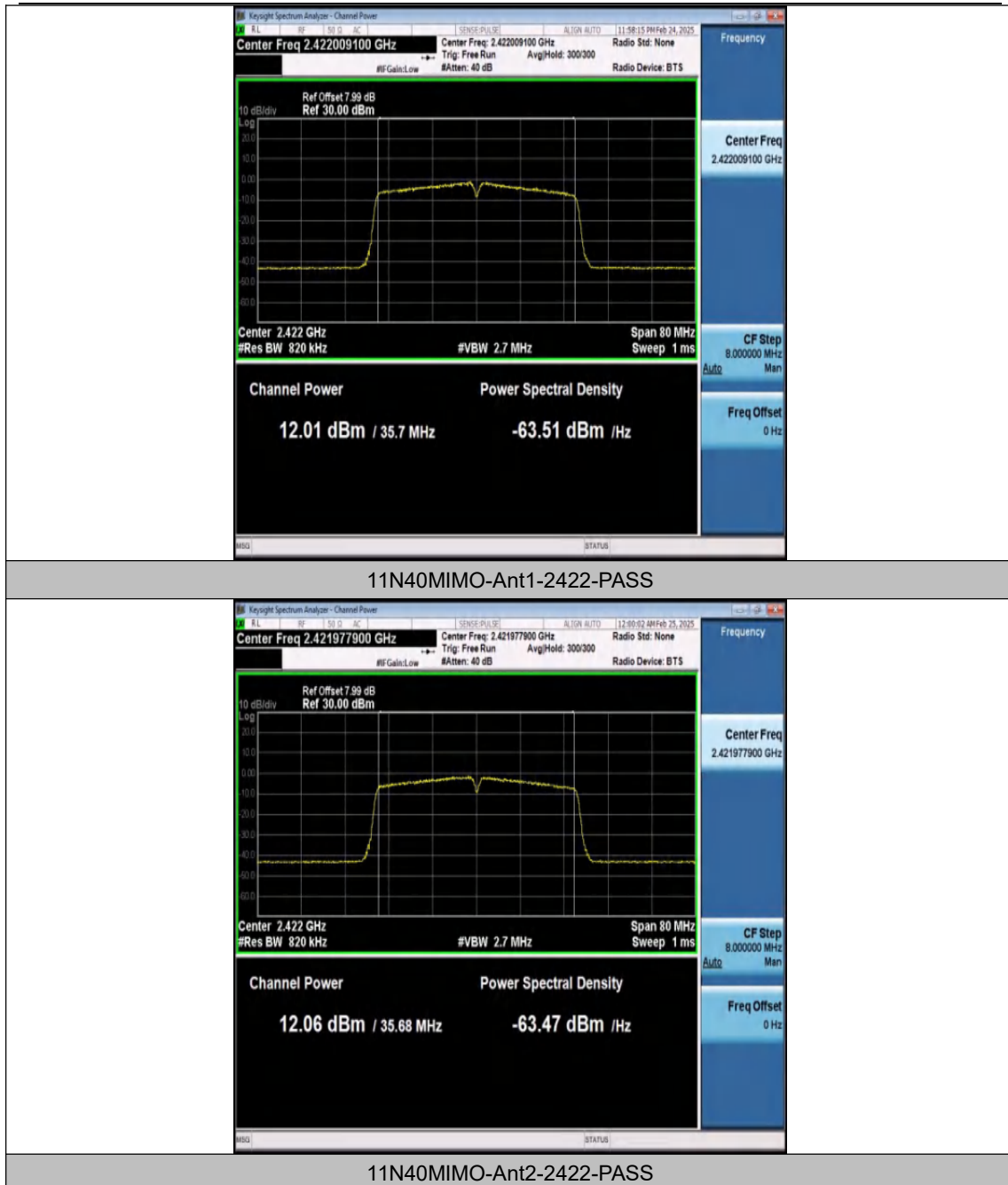


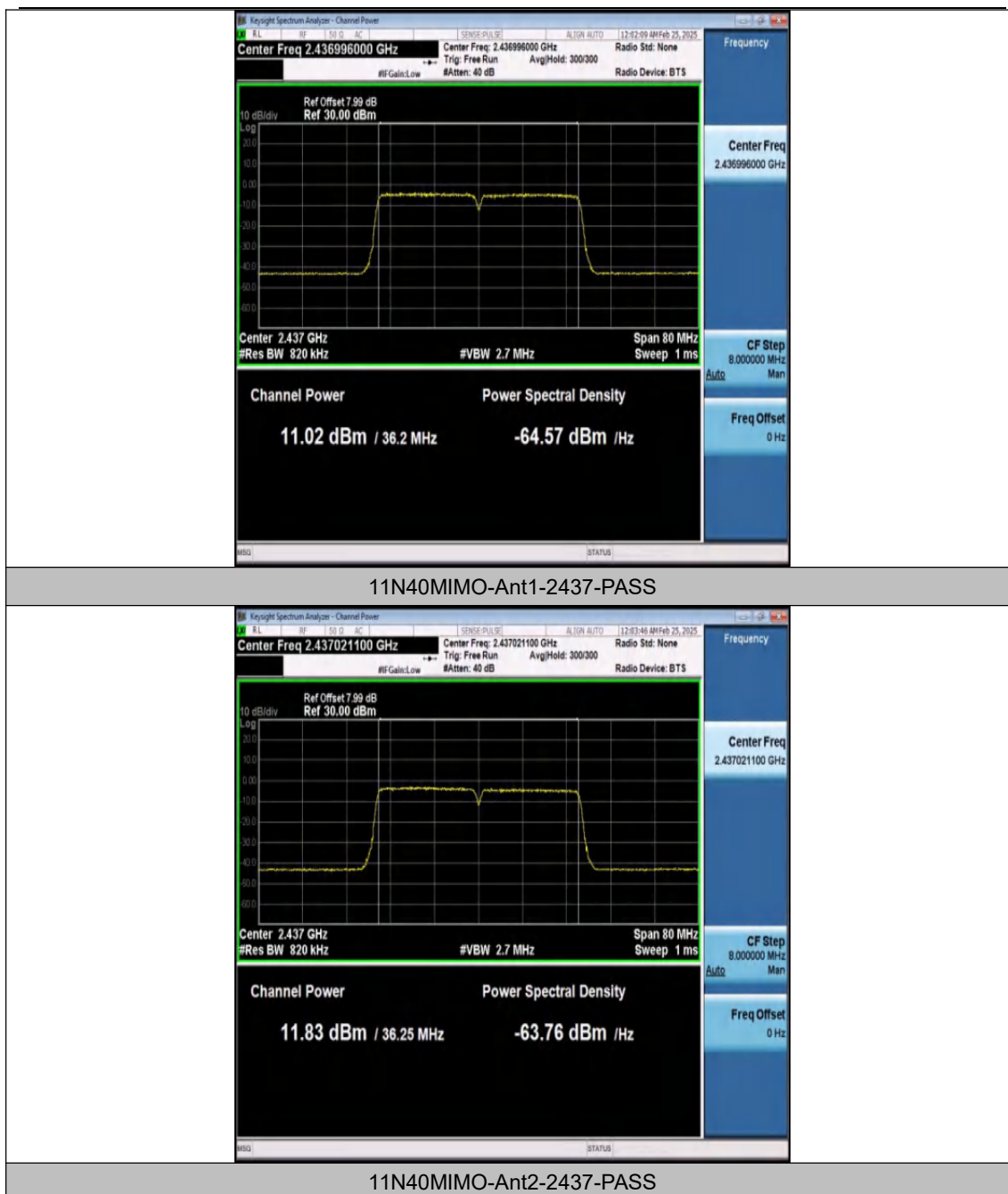


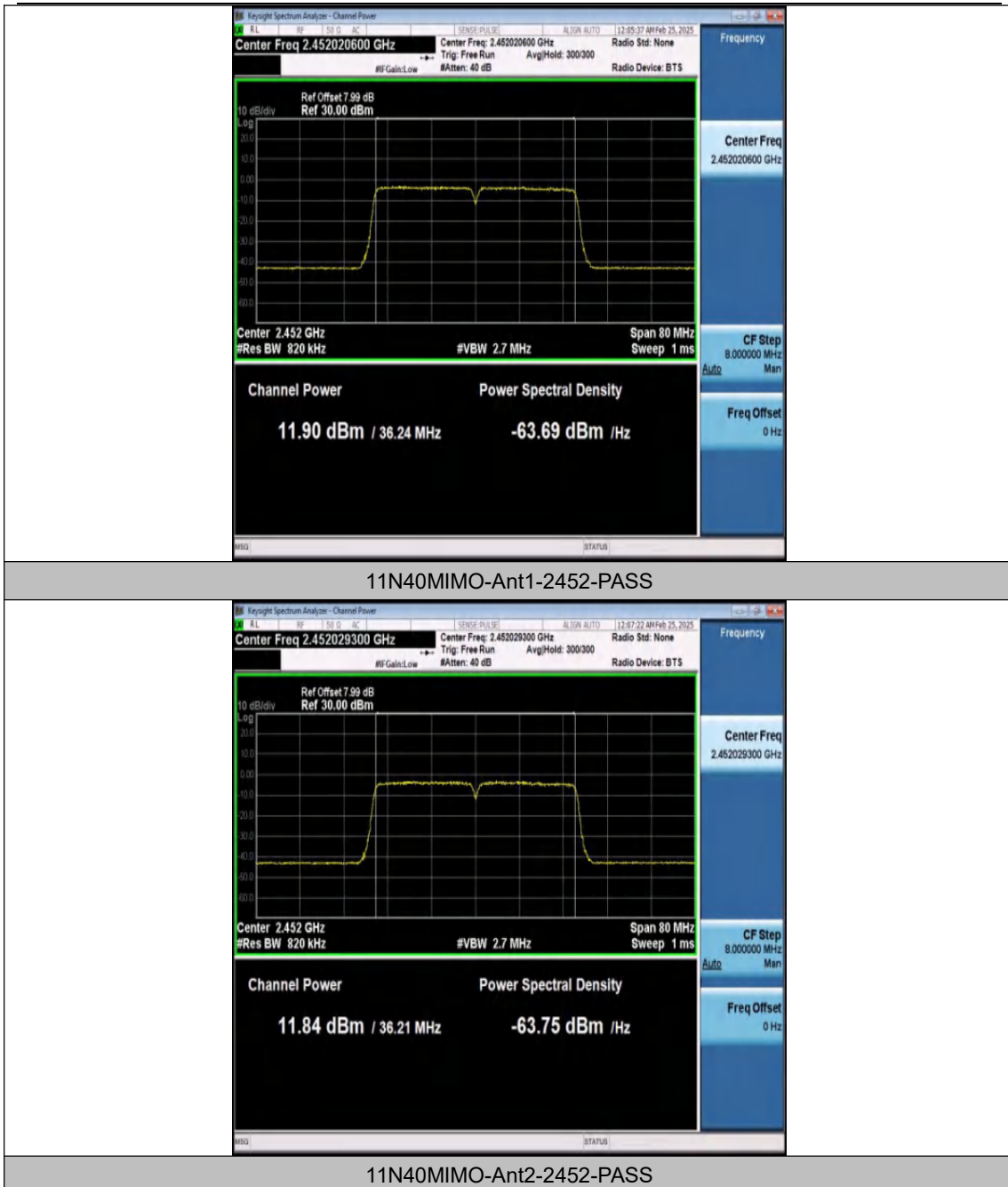


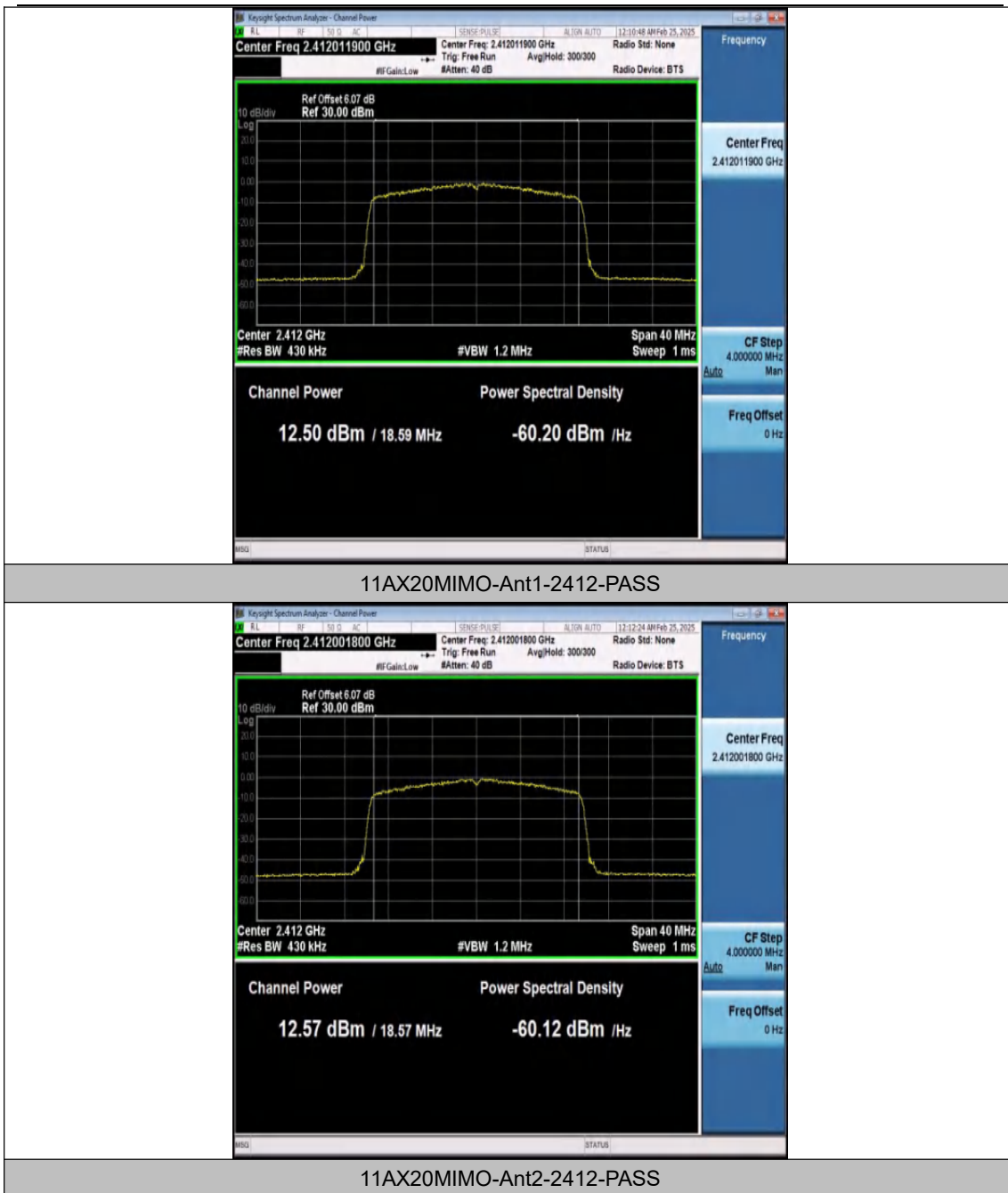


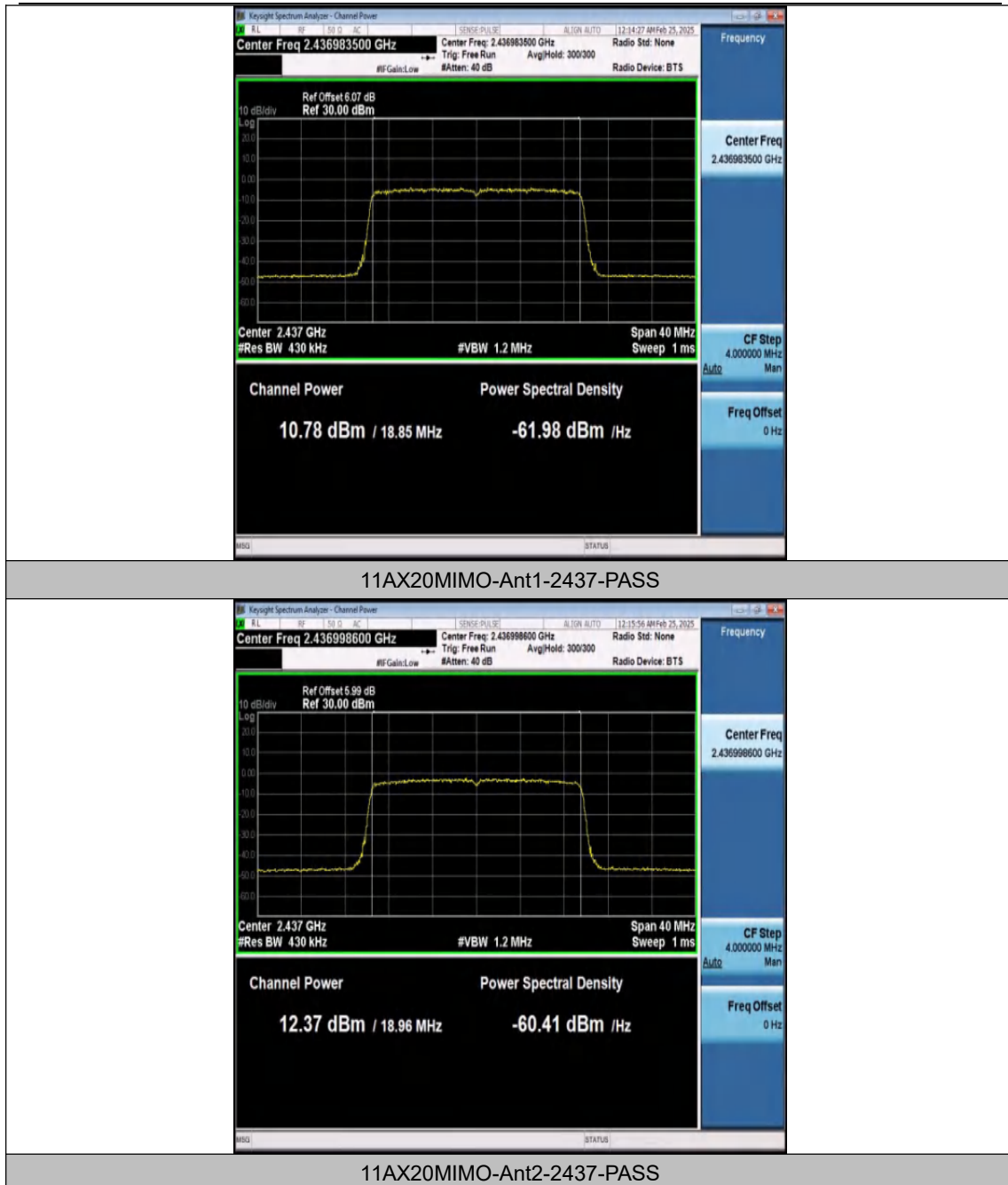


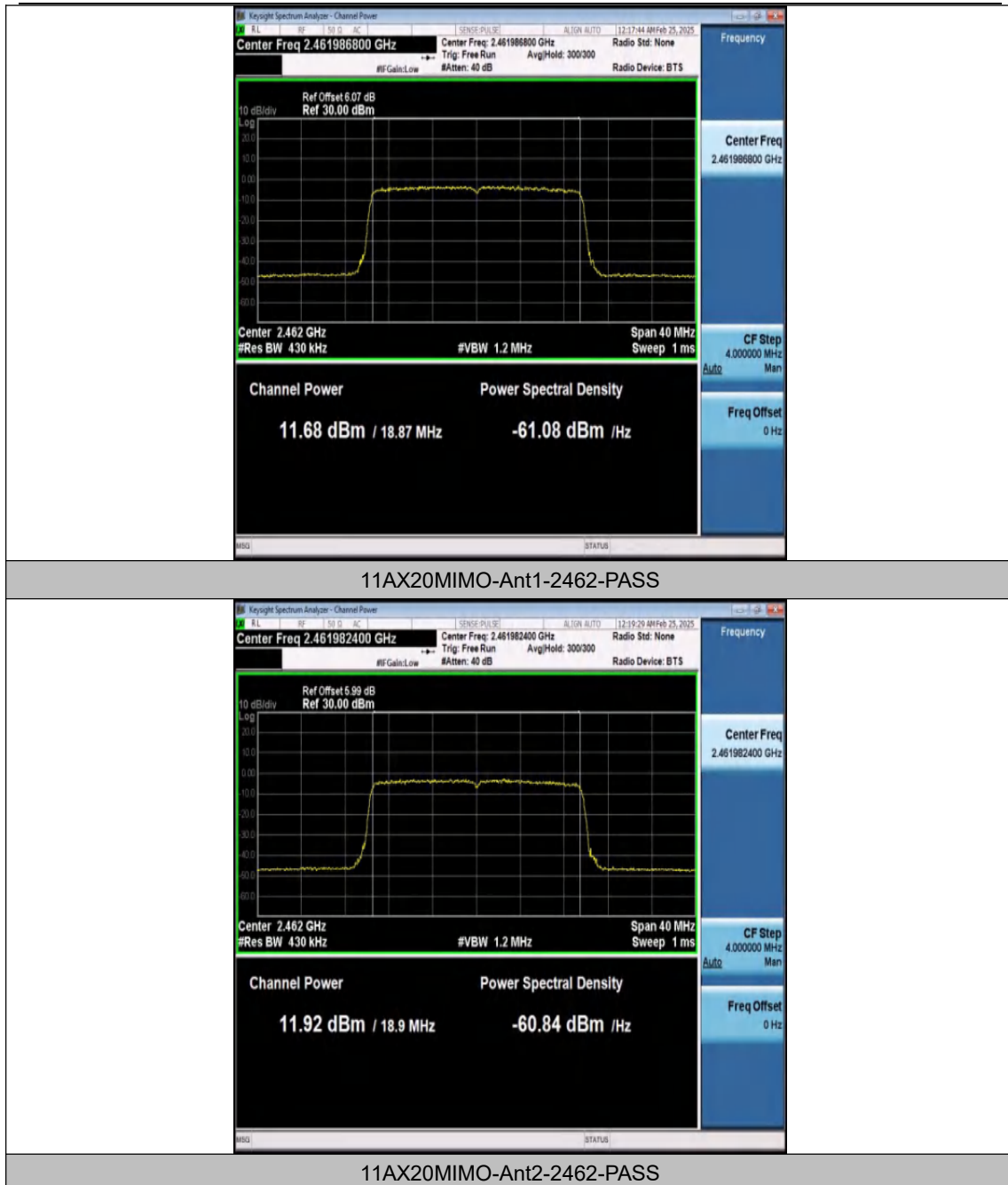


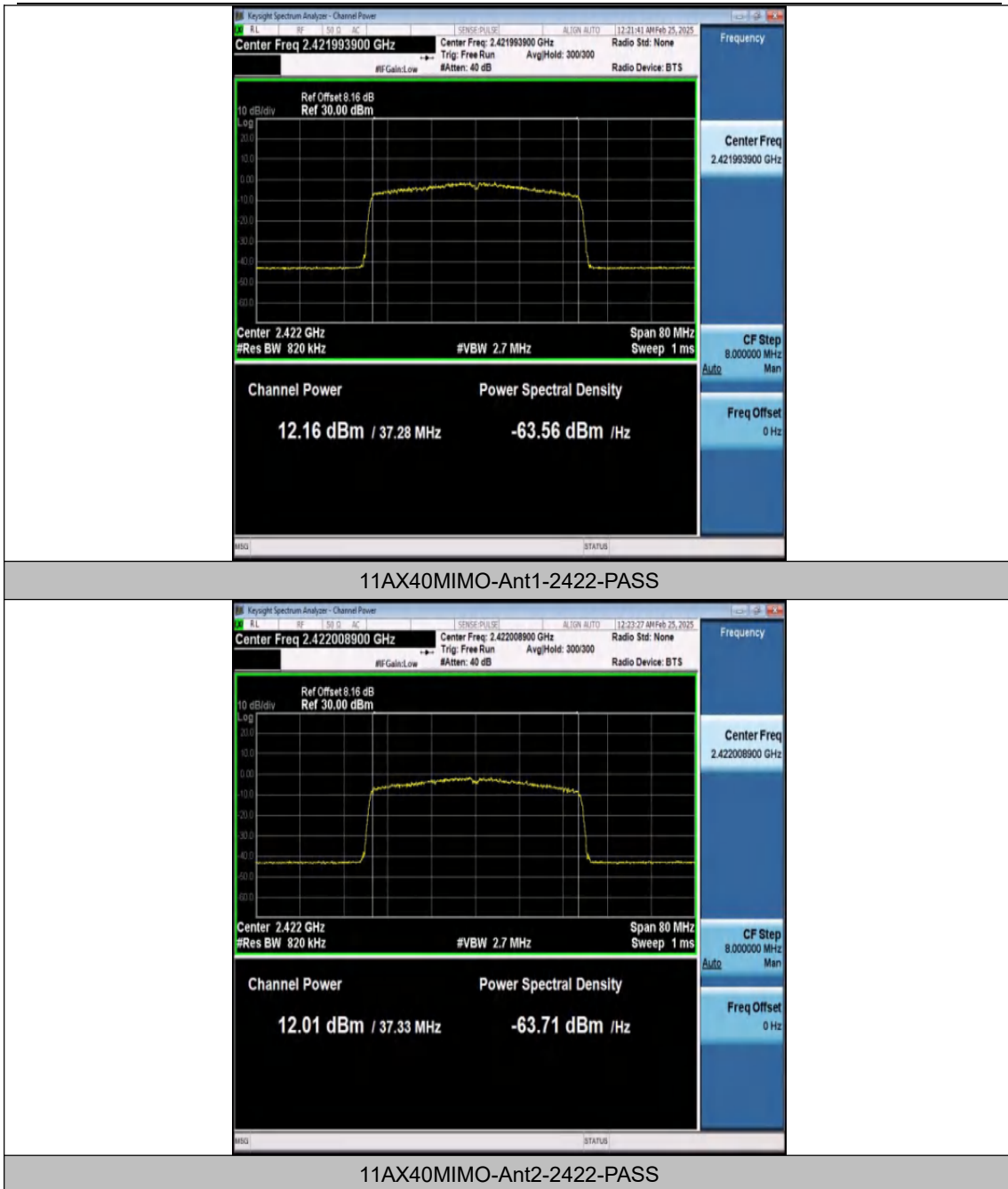


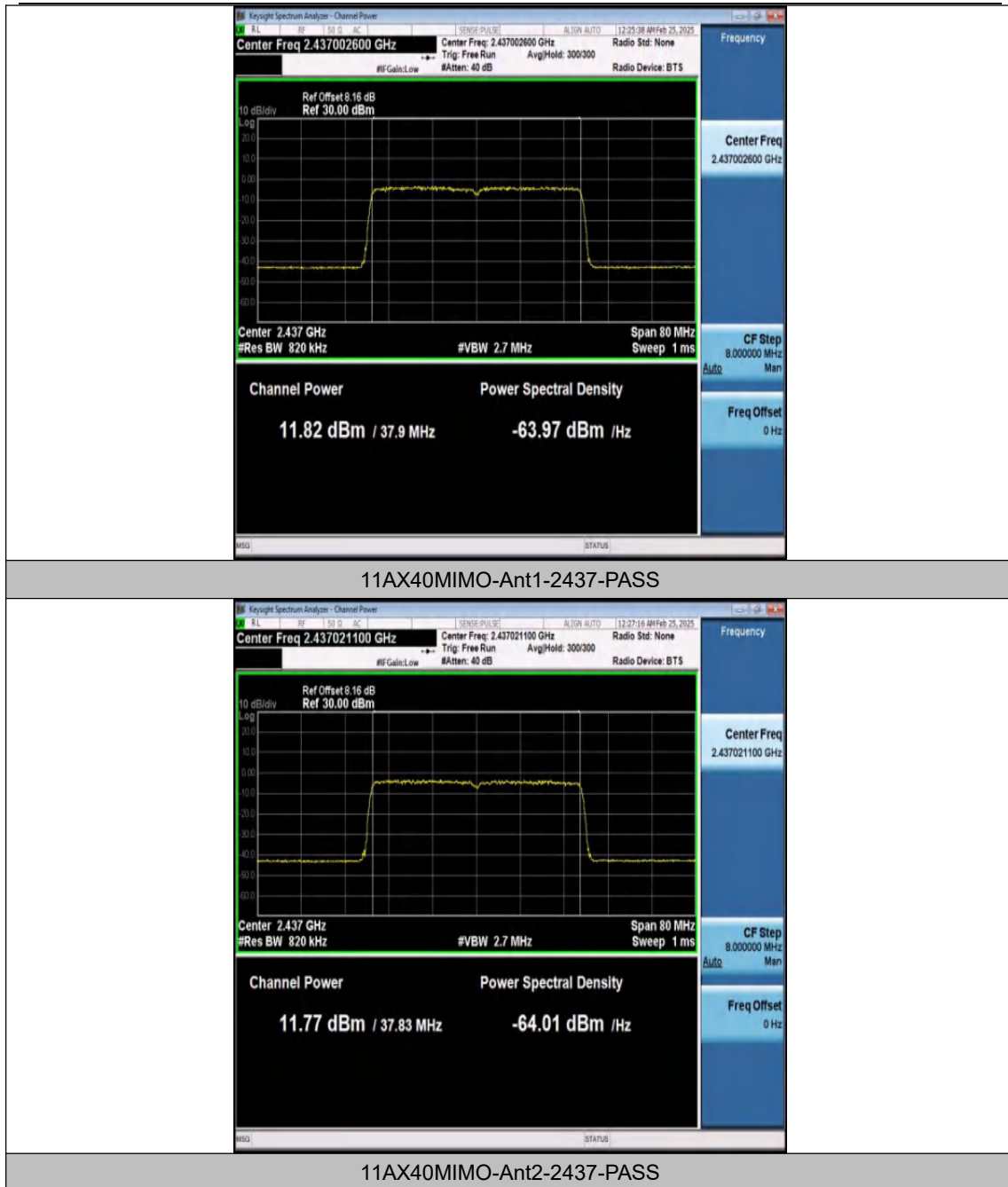










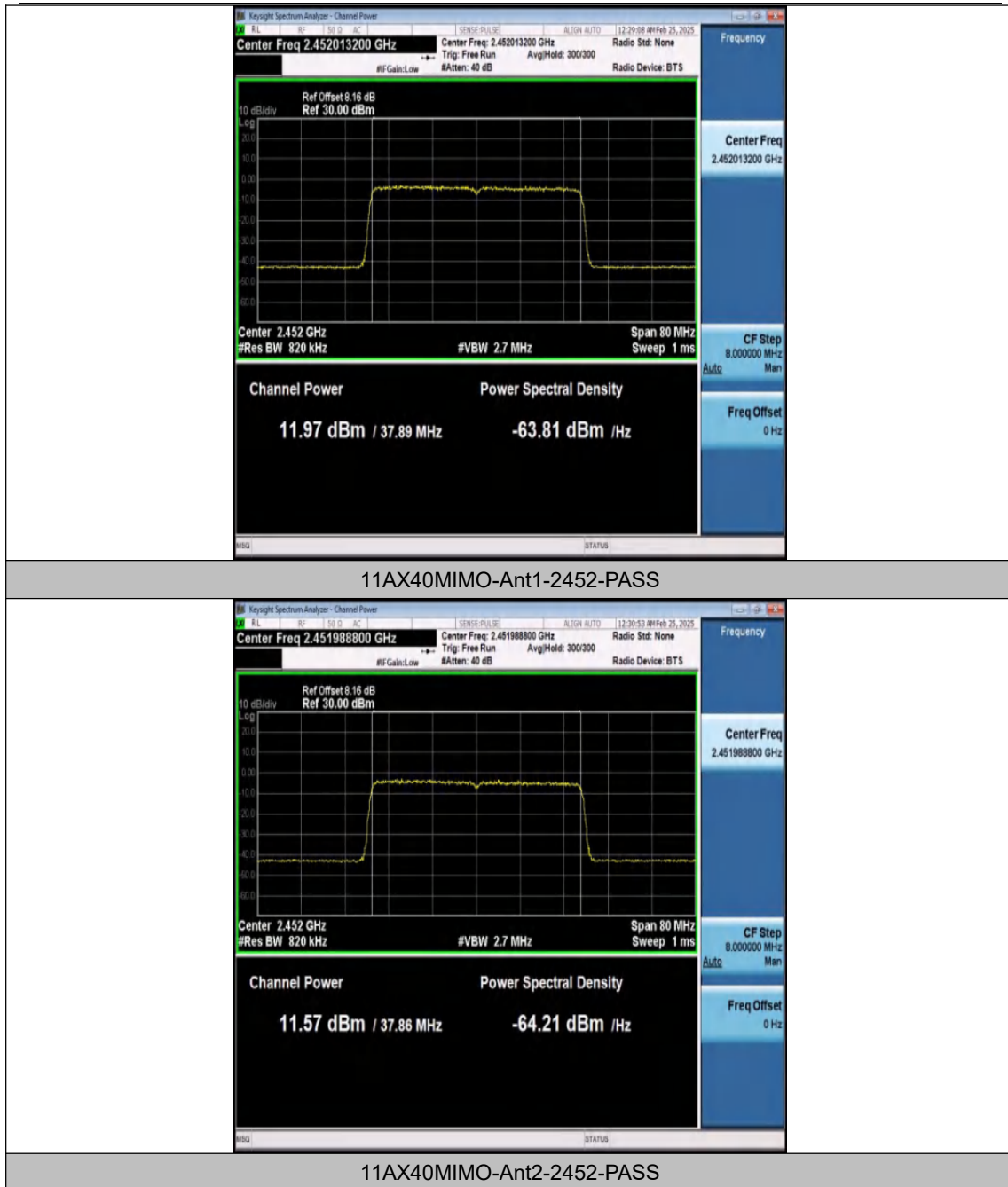


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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.89	-20.89	≤8.00	PASS
11B	Ant2	2412	-10.60	-20.6	≤8.00	PASS
11B	Ant1	2437	-11.03	-21.03	≤8.00	PASS
11B	Ant2	2437	-11.16	-21.16	≤8.00	PASS
11B	Ant1	2462	-11.41	-21.41	≤8.00	PASS
11B	Ant2	2462	-11.13	-21.13	≤8.00	PASS
11G	Ant1	2412	-10.02	-20.02	≤8.00	PASS
11G	Ant2	2412	-11.06	-21.06	≤8.00	PASS
11G	Ant1	2437	-10.86	-20.86	≤8.00	PASS
11G	Ant2	2437	-11.46	-21.46	≤8.00	PASS
11G	Ant1	2462	-12.21	-22.21	≤8.00	PASS
11G	Ant2	2462	-11.60	-21.6	≤8.00	PASS
11N20MIMO	Ant1	2412	-11.72	-21.72	≤8.00	PASS
11N20MIMO	Ant2	2412	-11.57	-21.57	≤8.00	PASS
11N20MIMO	total	2412	-8.63	-18.63	≤8.00	PASS
11N20MIMO	Ant1	2437	-12.23	-22.23	≤8.00	PASS
11N20MIMO	Ant2	2437	-11.88	-21.88	≤8.00	PASS
11N20MIMO	total	2437	-9.04	-19.04	≤8.00	PASS
11N20MIMO	Ant1	2462	-12.00	-22	≤8.00	PASS
11N20MIMO	Ant2	2462	-11.61	-21.61	≤8.00	PASS
11N20MIMO	total	2462	-8.79	-18.79	≤8.00	PASS
11N40MIMO	Ant1	2422	-12.03	-22.03	≤8.00	PASS
11N40MIMO	Ant2	2422	-11.77	-21.77	≤8.00	PASS
11N40MIMO	total	2422	-8.89	-18.89	≤8.00	PASS
11N40MIMO	Ant1	2437	-14.04	-24.04	≤8.00	PASS
11N40MIMO	Ant2	2437	-13.85	-23.85	≤8.00	PASS
11N40MIMO	total	2437	-10.93	-20.93	≤8.00	PASS
11N40MIMO	Ant1	2452	-13.97	-23.97	≤8.00	PASS
11N40MIMO	Ant2	2452	-13.88	-23.88	≤8.00	PASS
11N40MIMO	total	2452	-10.91	-20.91	≤8.00	PASS
11AX20MIMO	Ant1	2412	-10.27	-20.27	≤8.00	PASS
11AX20MIMO	Ant2	2412	-9.95	-19.95	≤8.00	PASS
11AX20MIMO	total	2412	-7.10	-17.1	≤8.00	PASS
11AX20MIMO	Ant1	2437	-12.65	-22.65	≤8.00	PASS
11AX20MIMO	Ant2	2437	-11.79	-21.79	≤8.00	PASS
11AX20MIMO	total	2437	-9.19	-19.19	≤8.00	PASS
11AX20MIMO	Ant1	2462	-12.26	-22.26	≤8.00	PASS

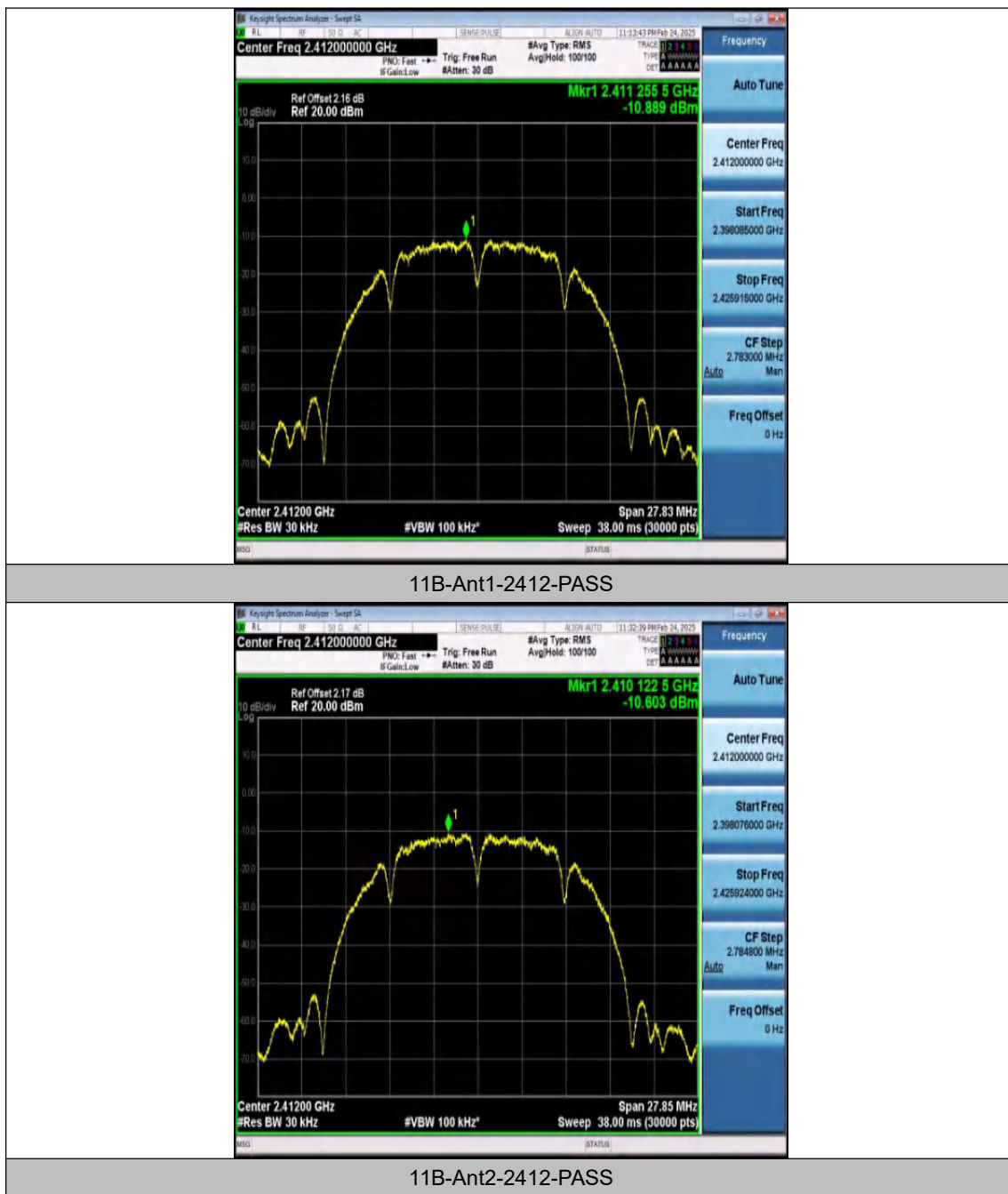
11AX20MIMO	Ant2	2462	-12.73	-22.73	≤8.00	PASS
11AX20MIMO	total	2462	-9.48	-19.48	≤8.00	PASS
11AX40MIMO	Ant1	2422	-12.62	-22.62	≤8.00	PASS
11AX40MIMO	Ant2	2422	-12.81	-22.81	≤8.00	PASS
11AX40MIMO	total	2422	-9.70	-19.7	≤8.00	PASS
11AX40MIMO	Ant1	2437	-14.45	-24.45	≤8.00	PASS
11AX40MIMO	Ant2	2437	-14.96	-24.96	≤8.00	PASS
11AX40MIMO	total	2437	-11.69	-21.69	≤8.00	PASS
11AX40MIMO	Ant1	2452	-14.46	-24.46	≤8.00	PASS
11AX40MIMO	Ant2	2452	-14.55	-24.55	≤8.00	PASS
11AX40MIMO	total	2452	-11.49	-21.49	≤8.00	PASS

Note:

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



Test Graphs

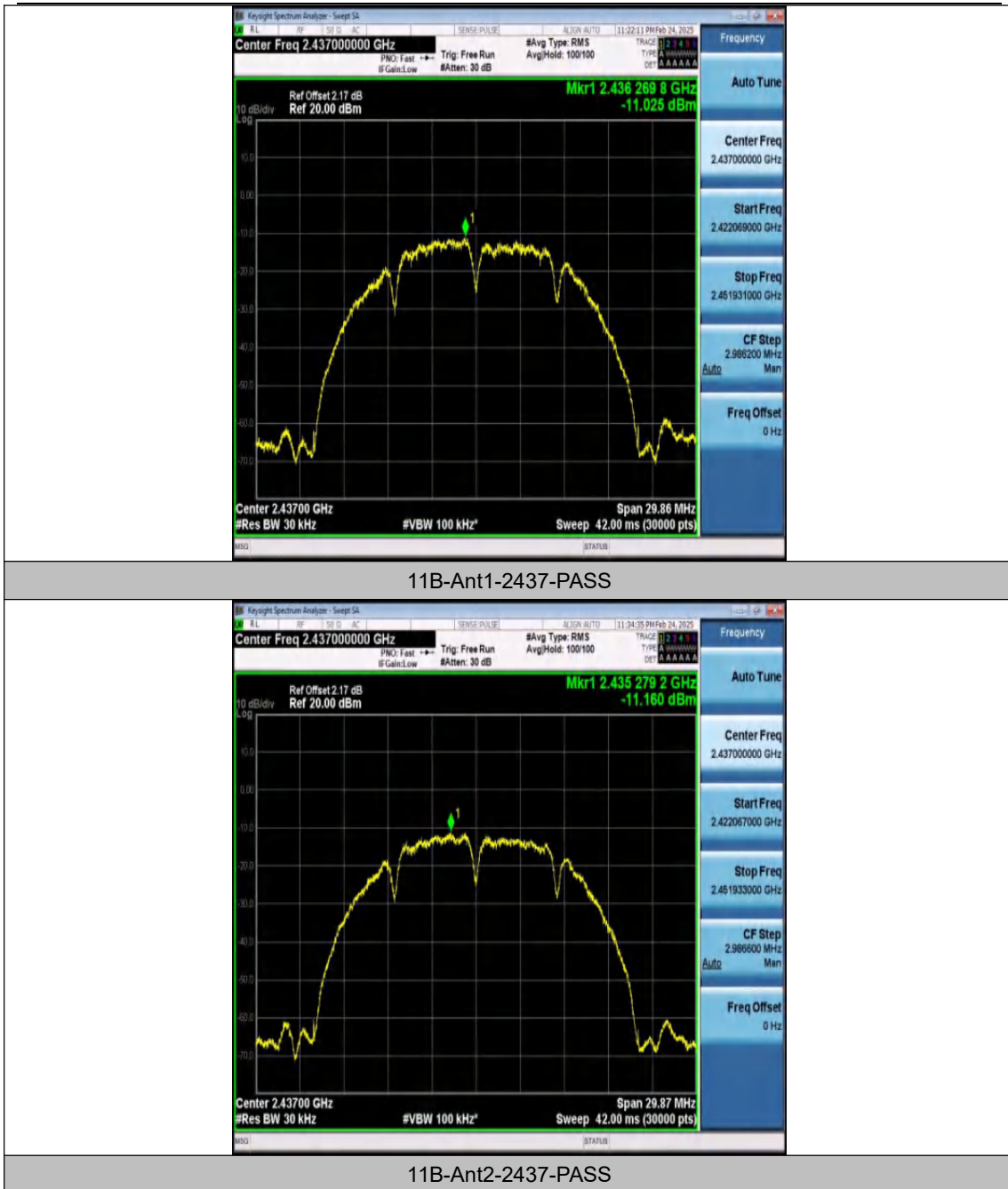


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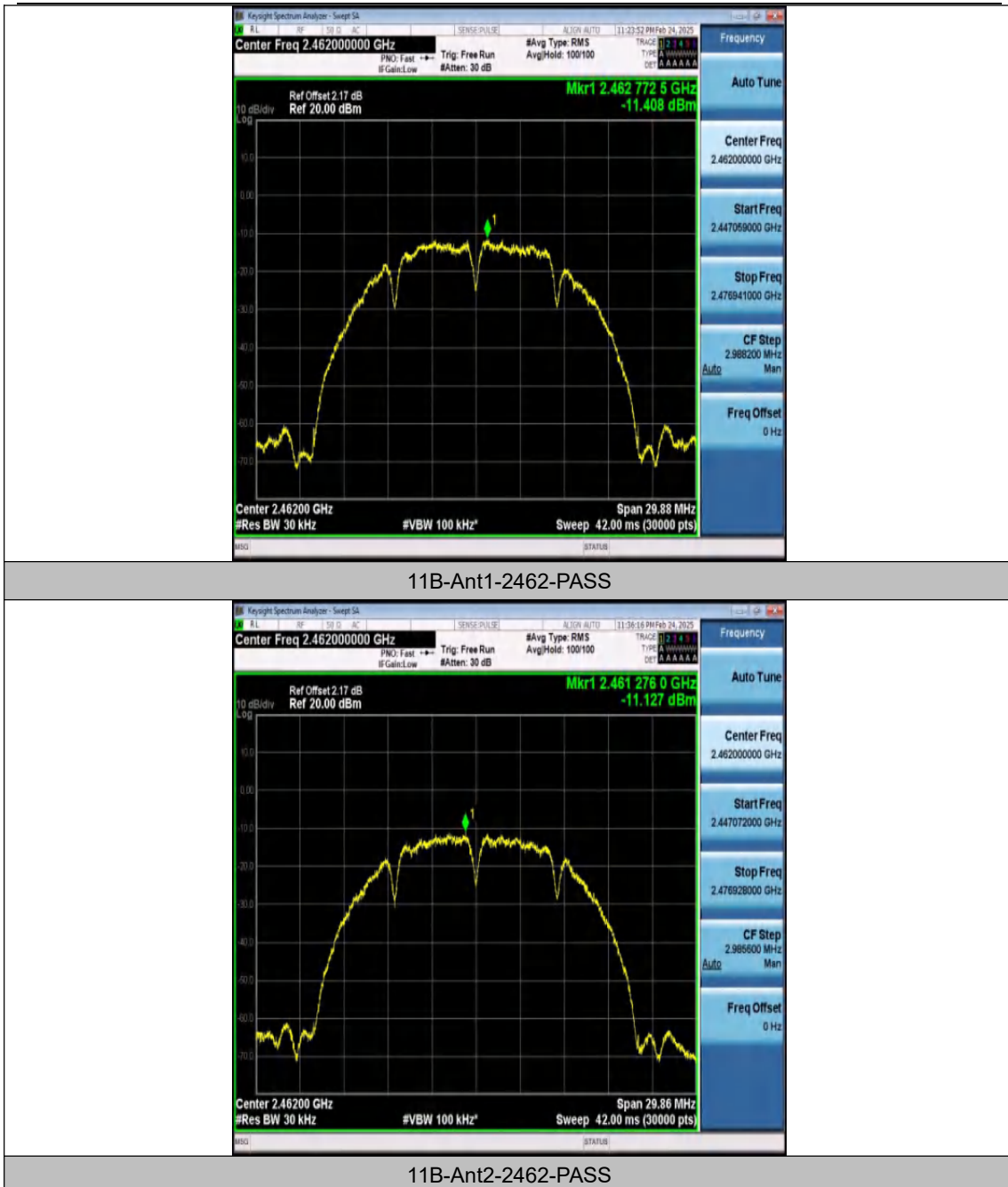


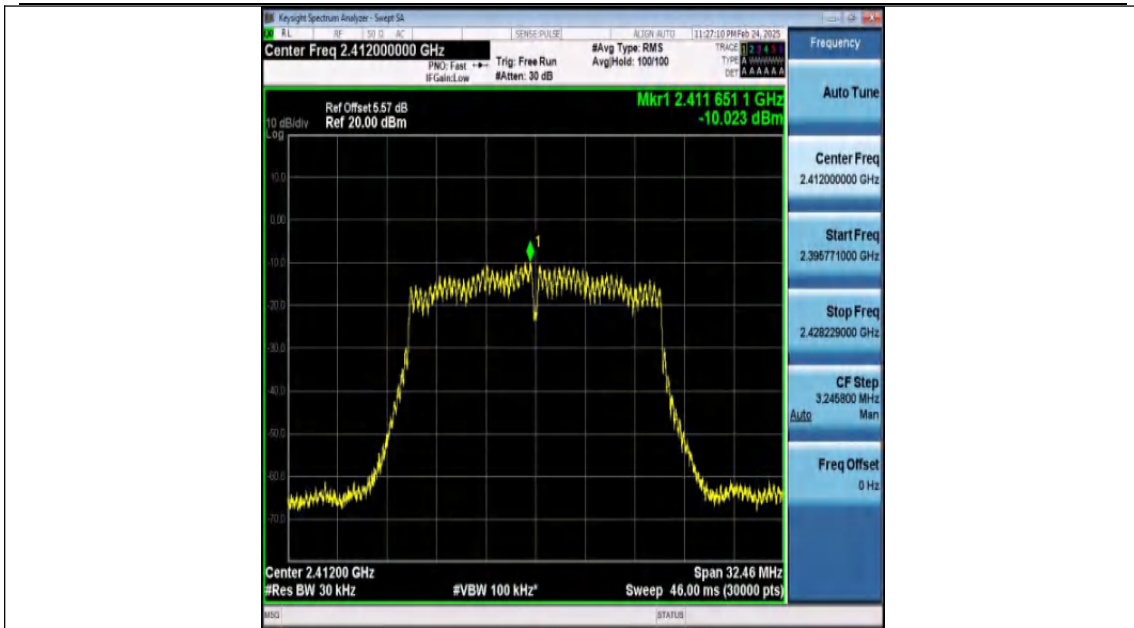
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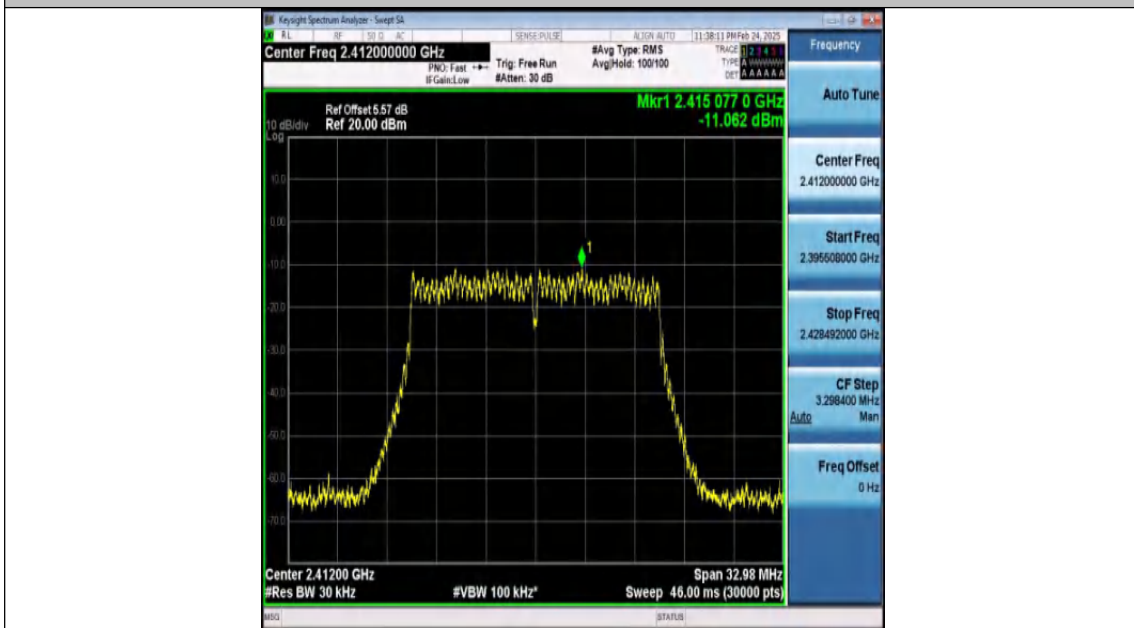


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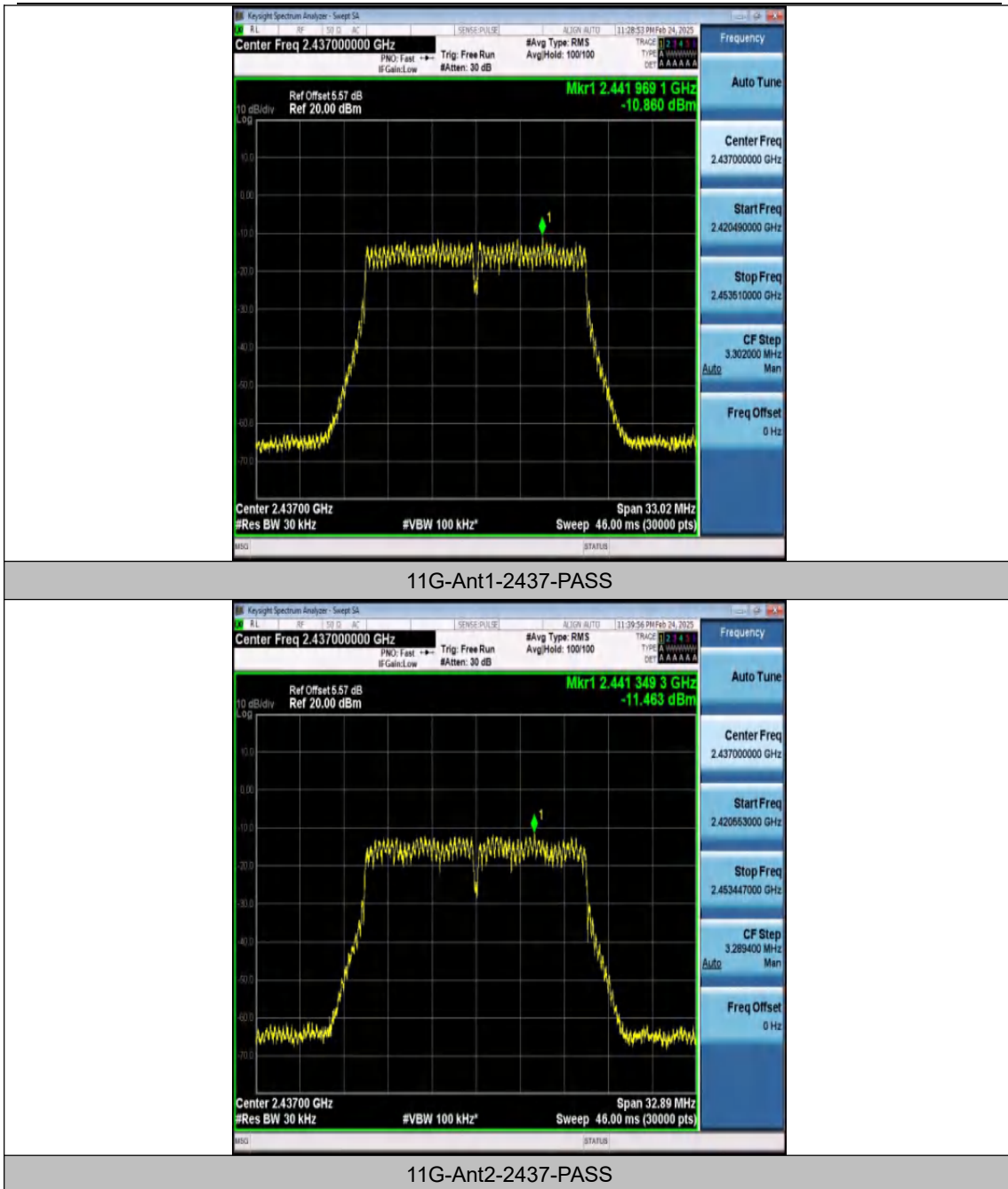




11G-Ant1-2412-PASS



11G-Ant2-2412-PASS

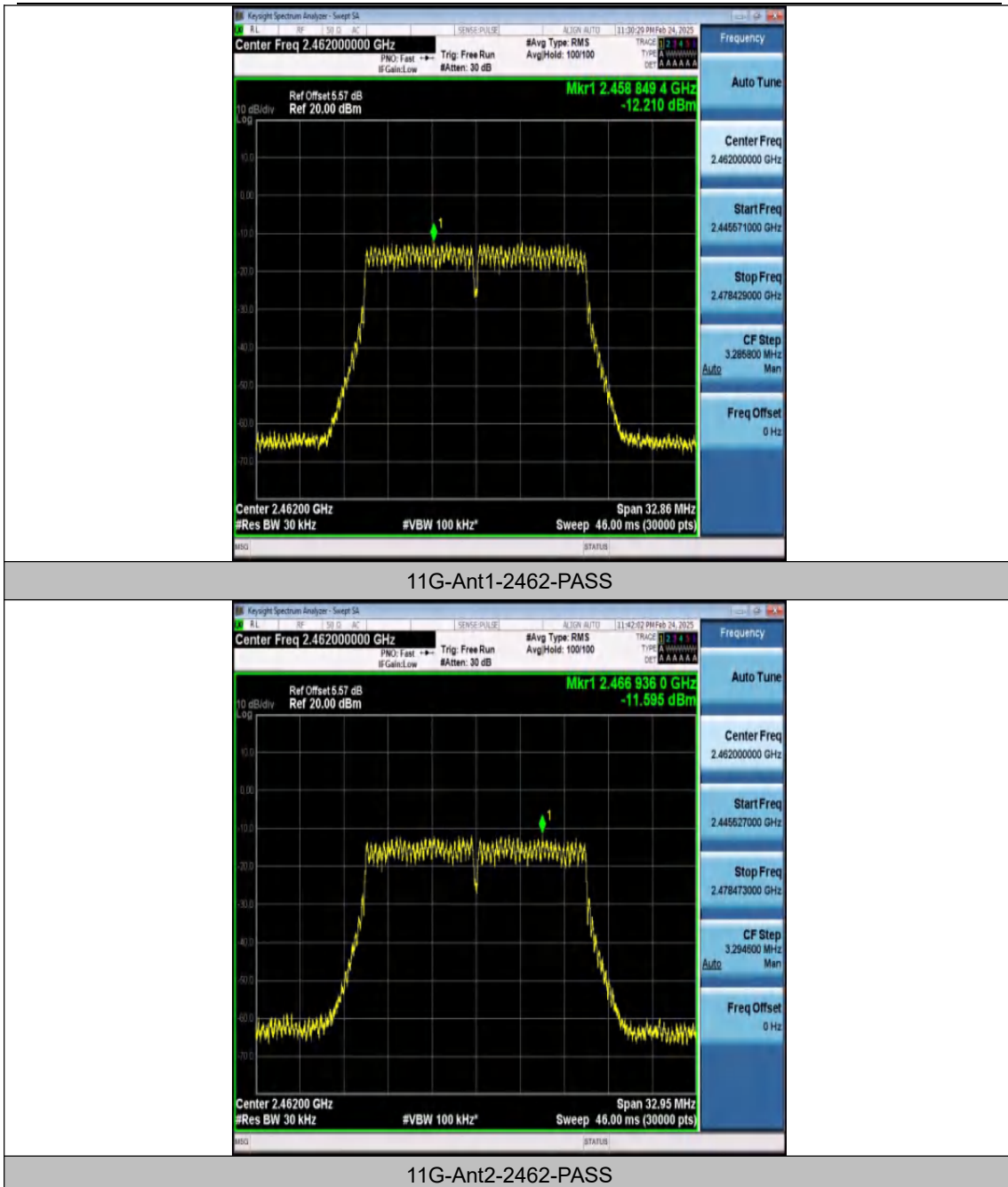


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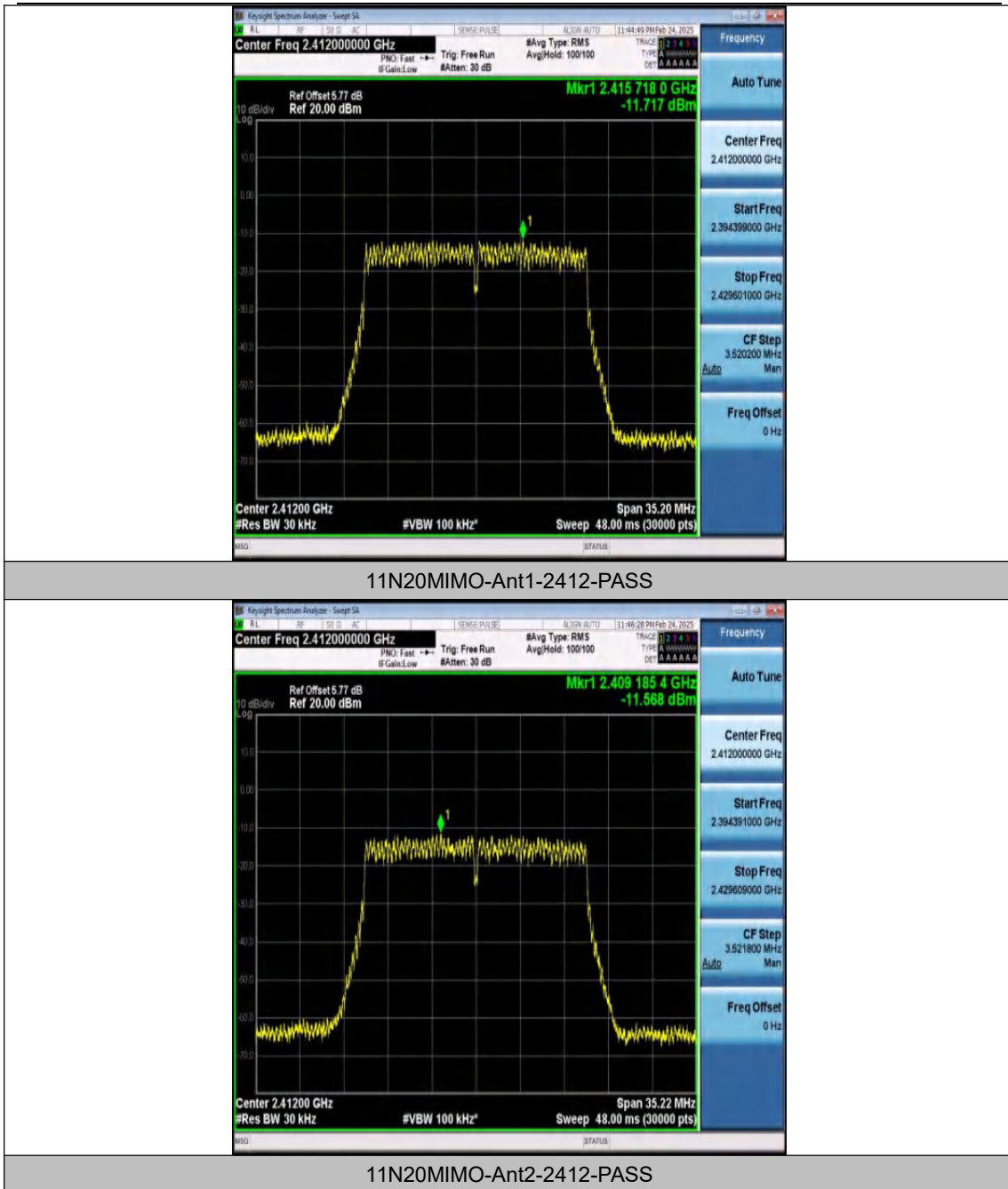


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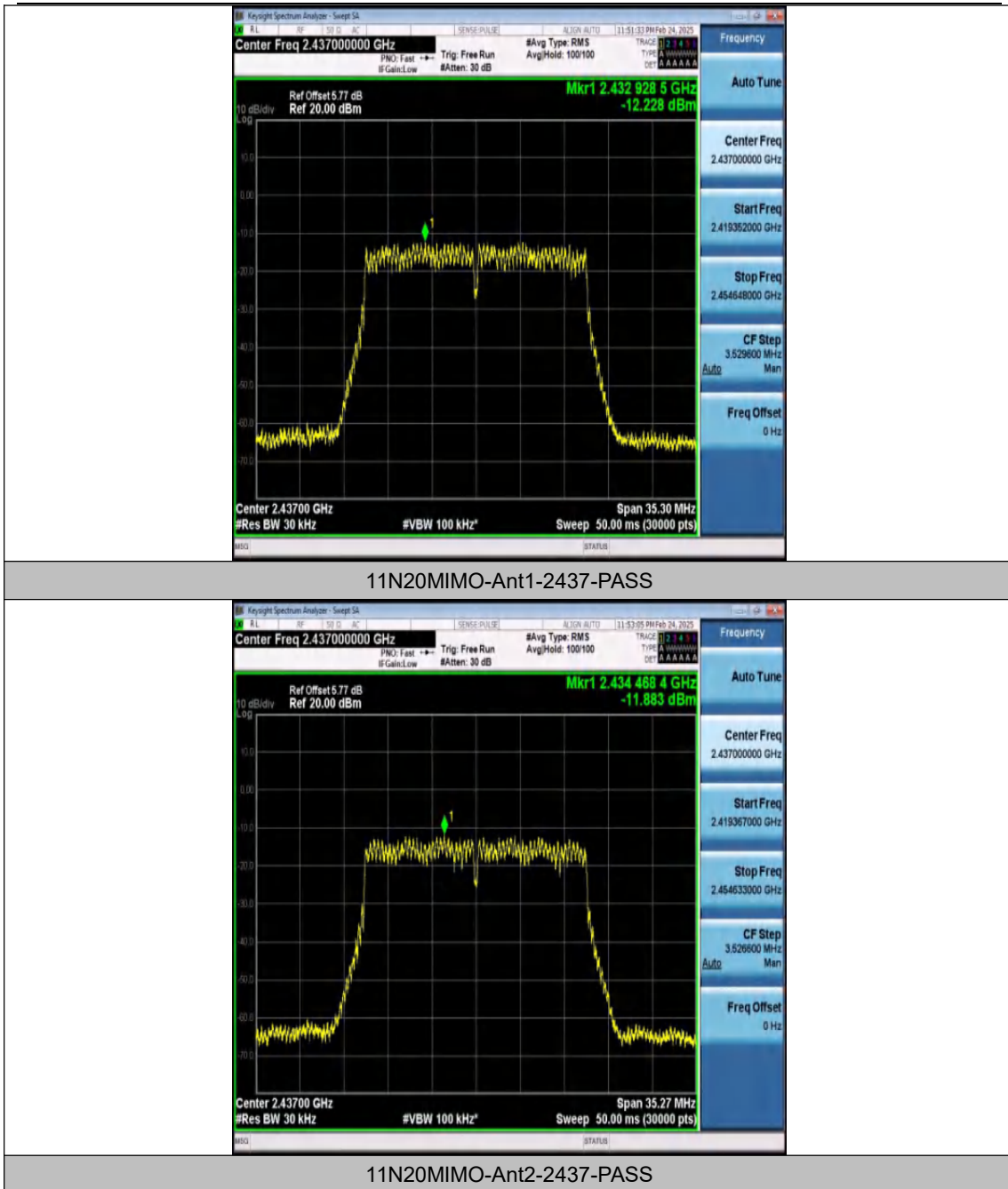


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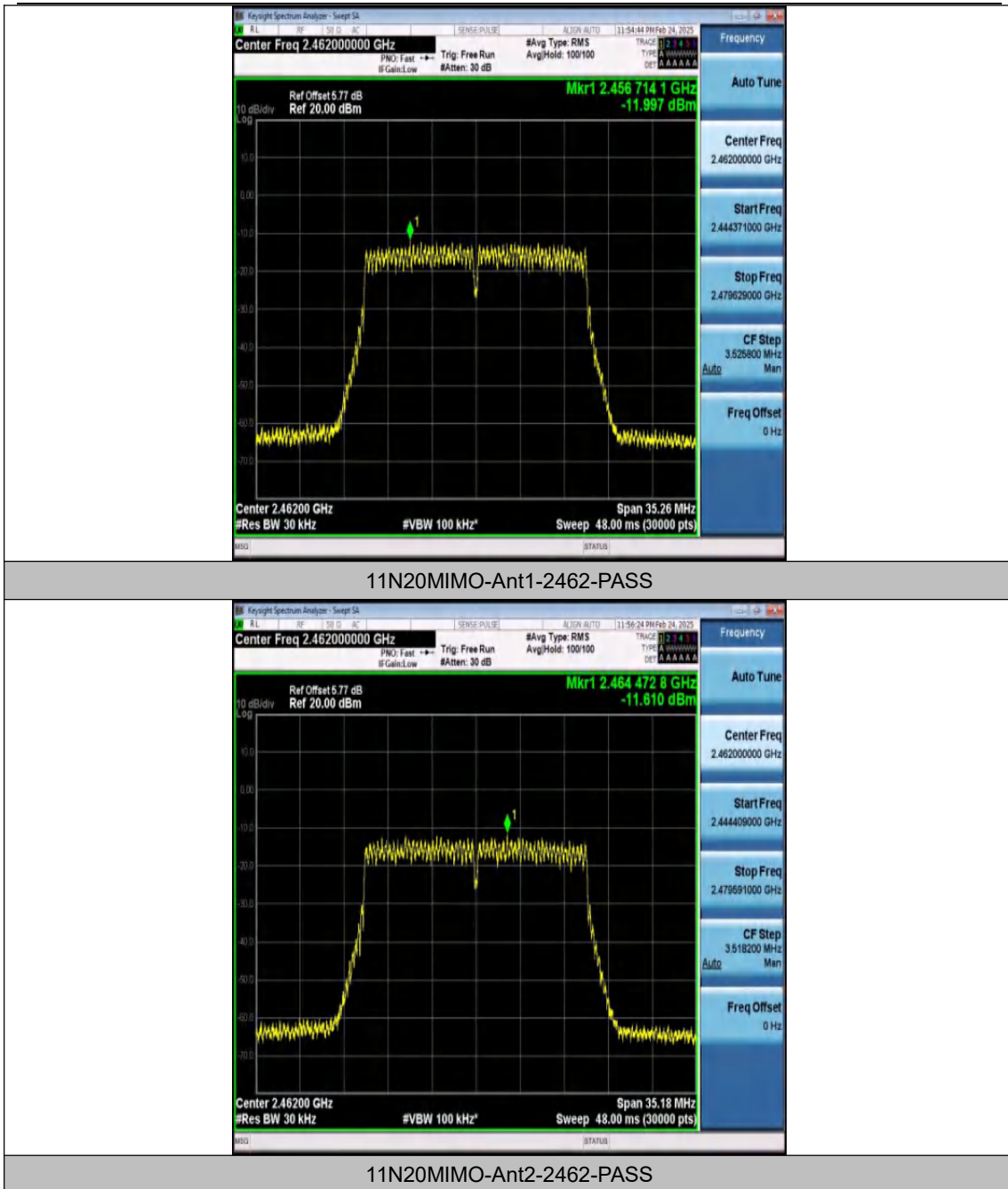


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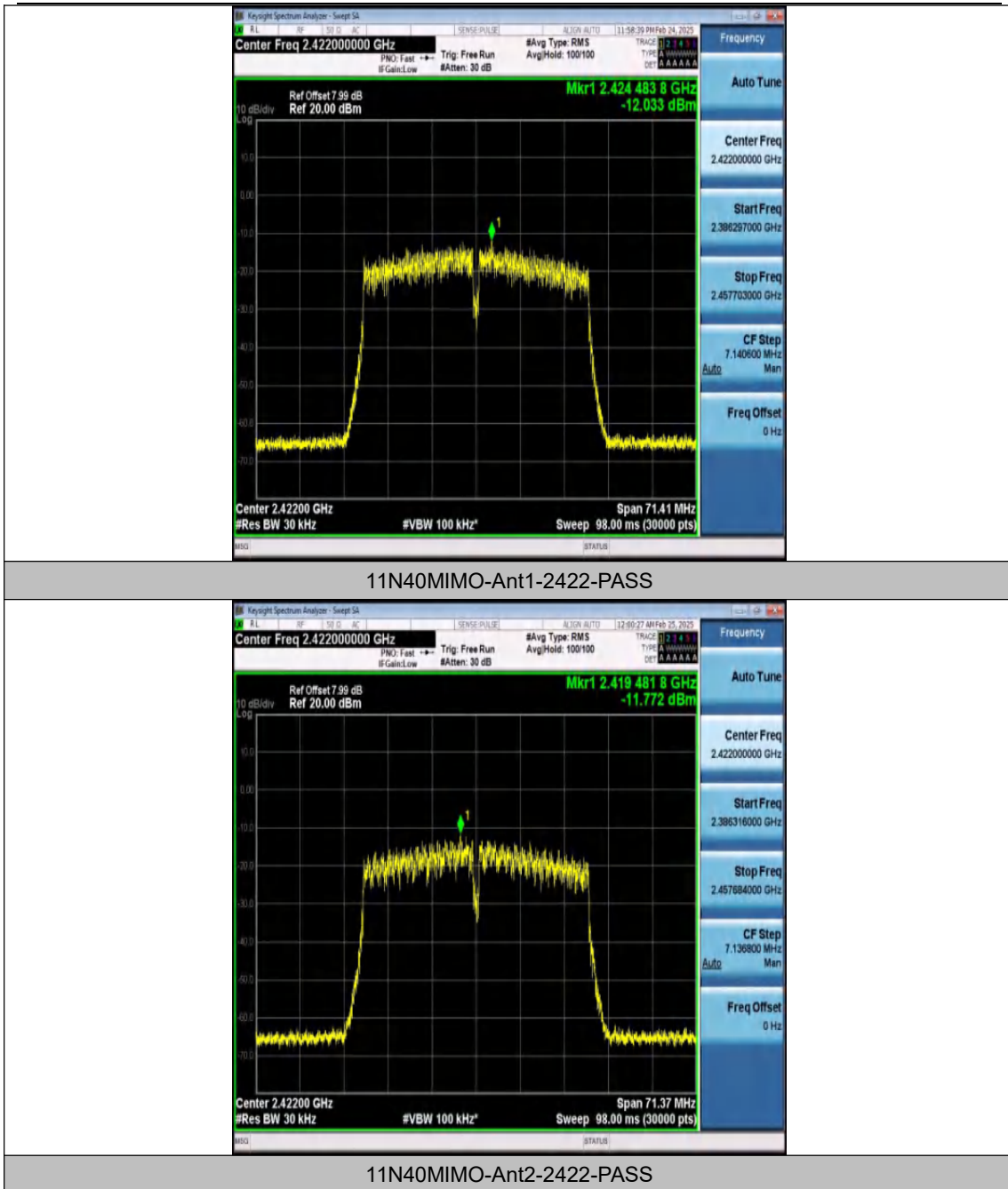


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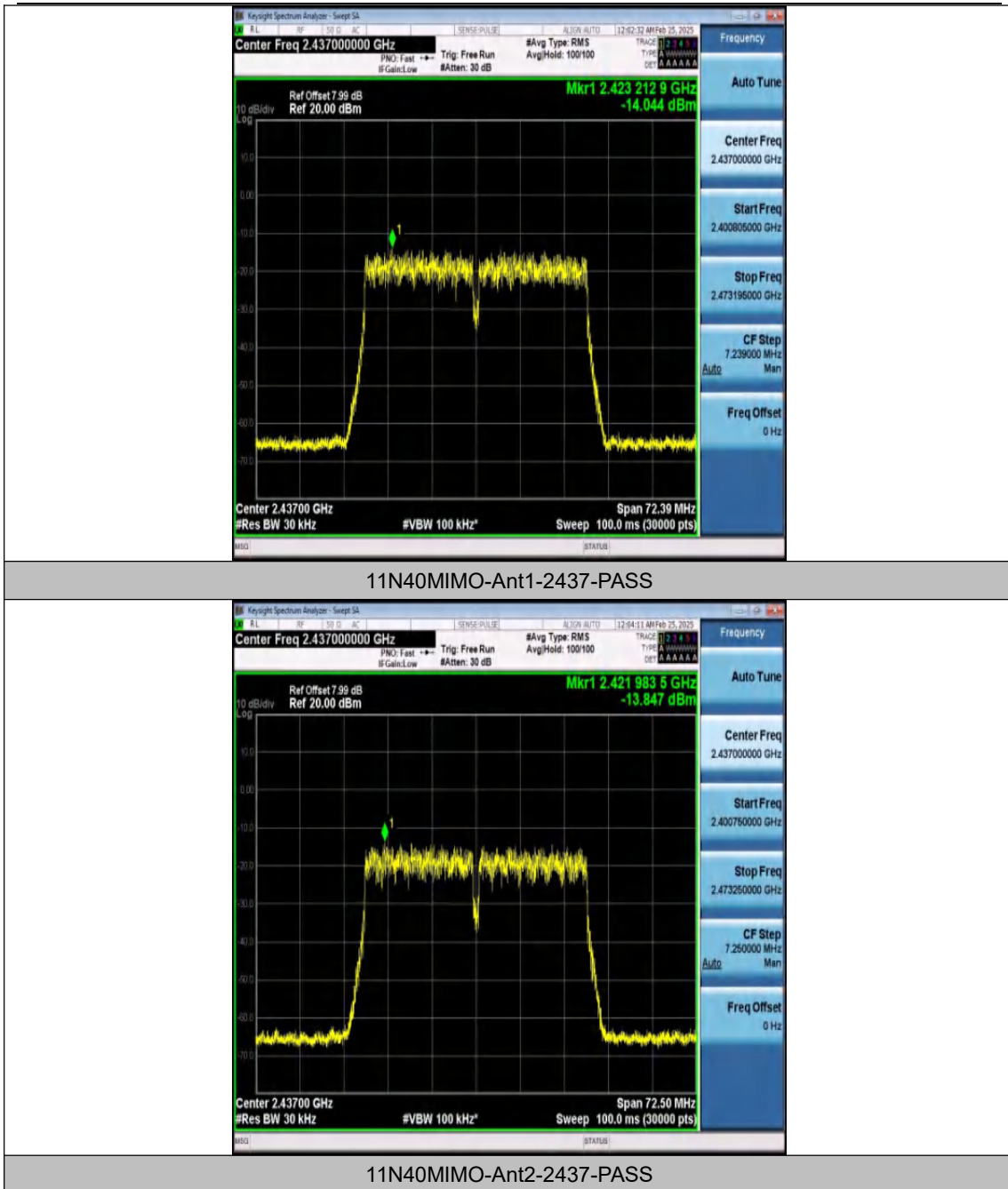


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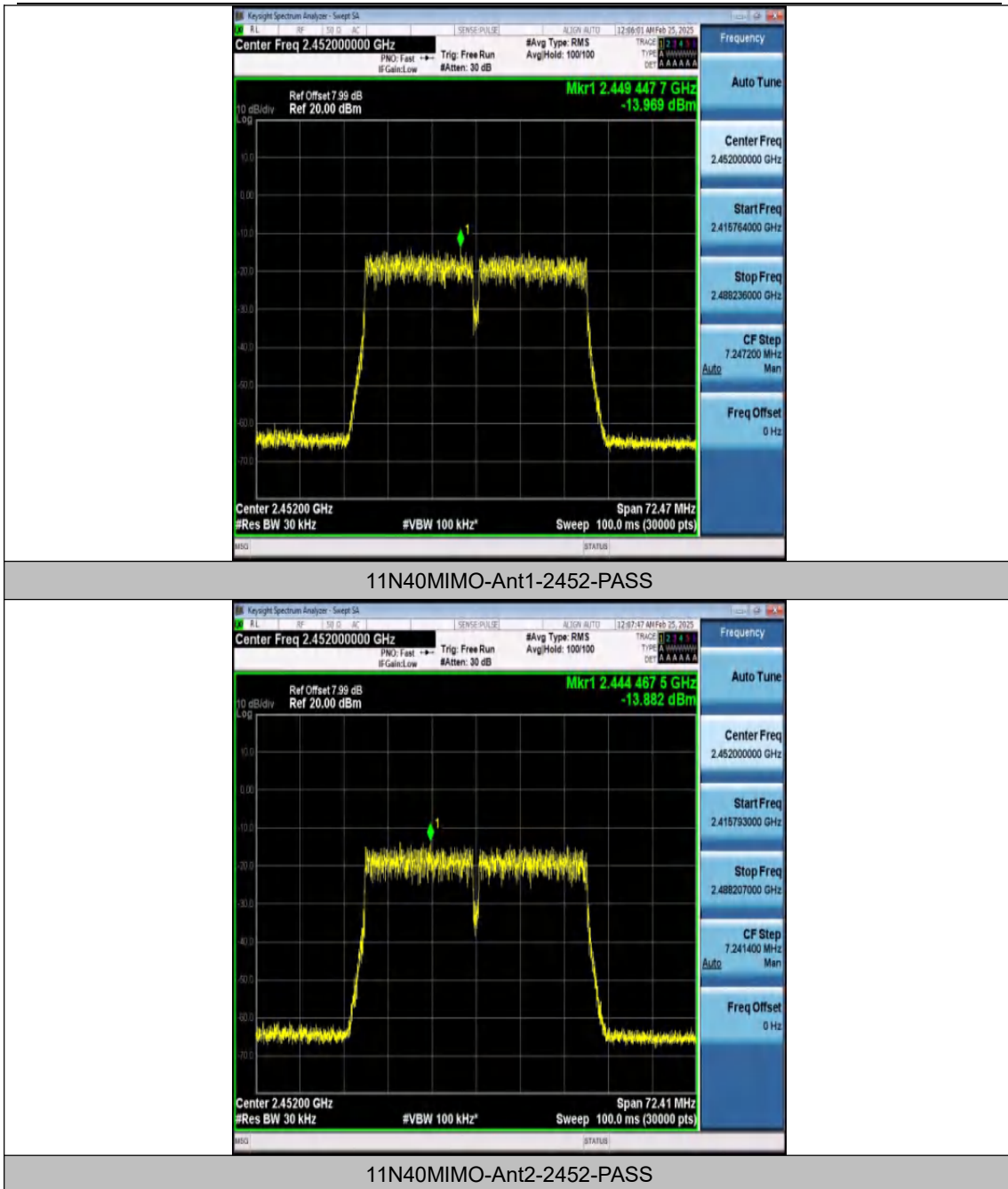
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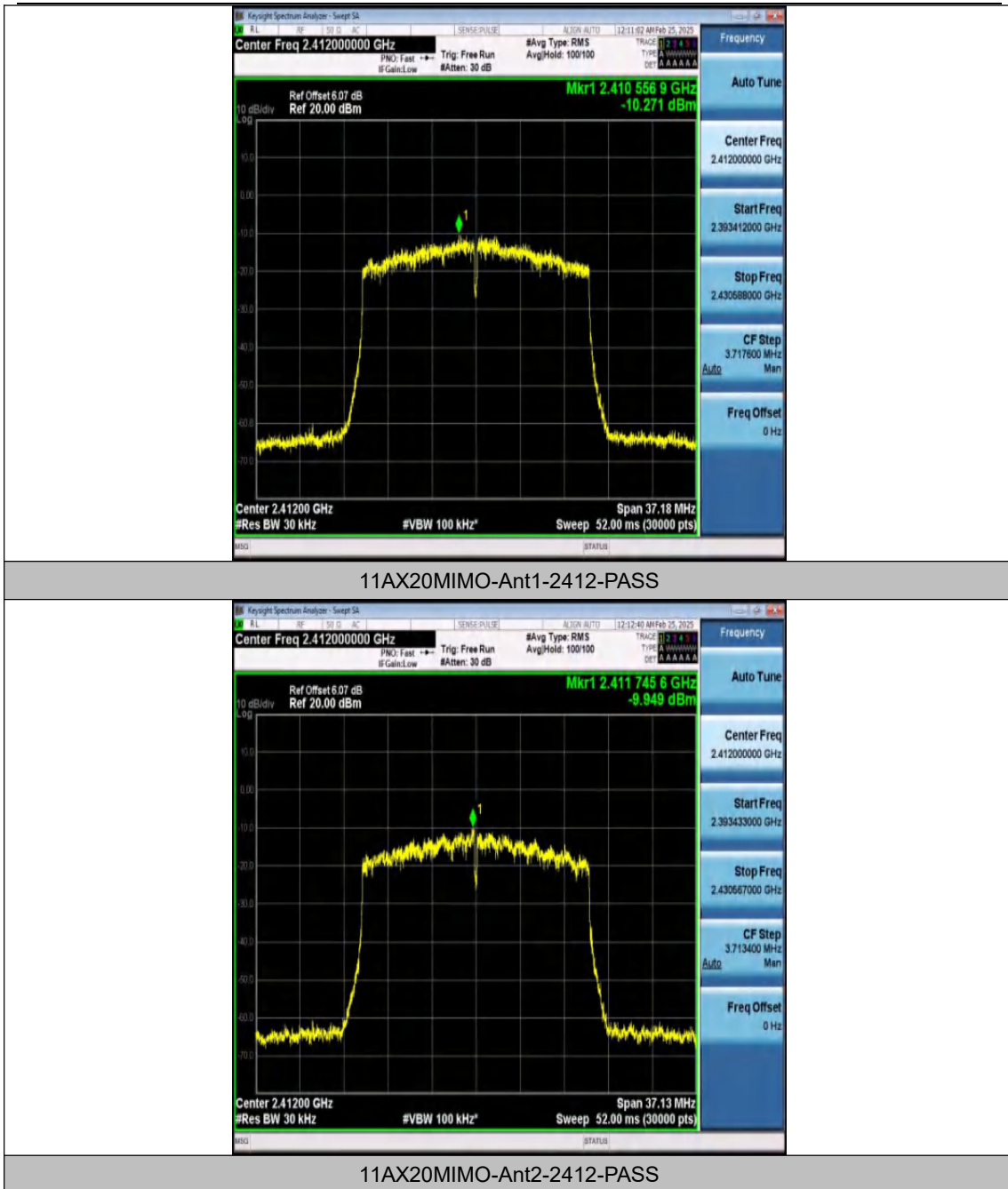
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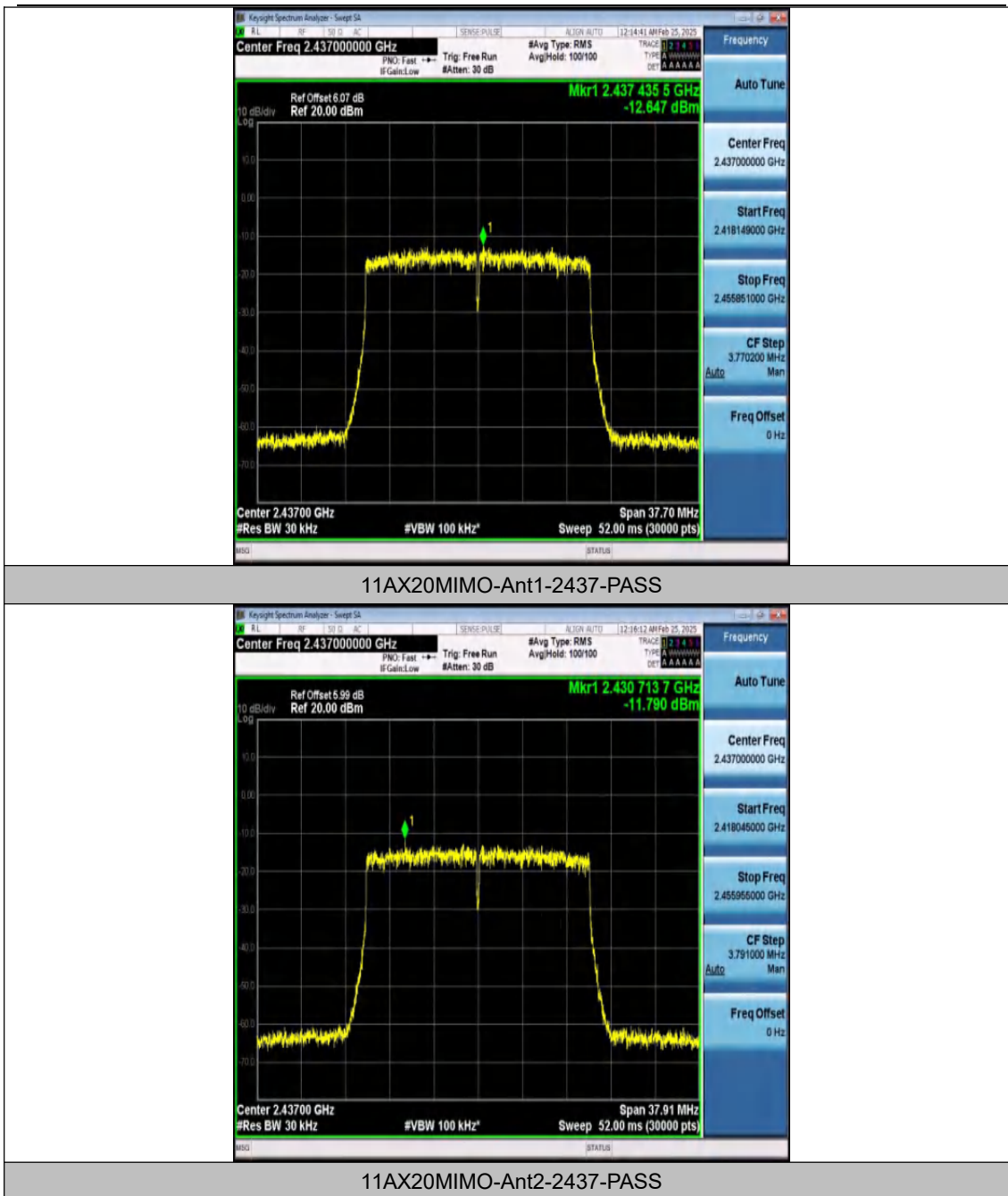


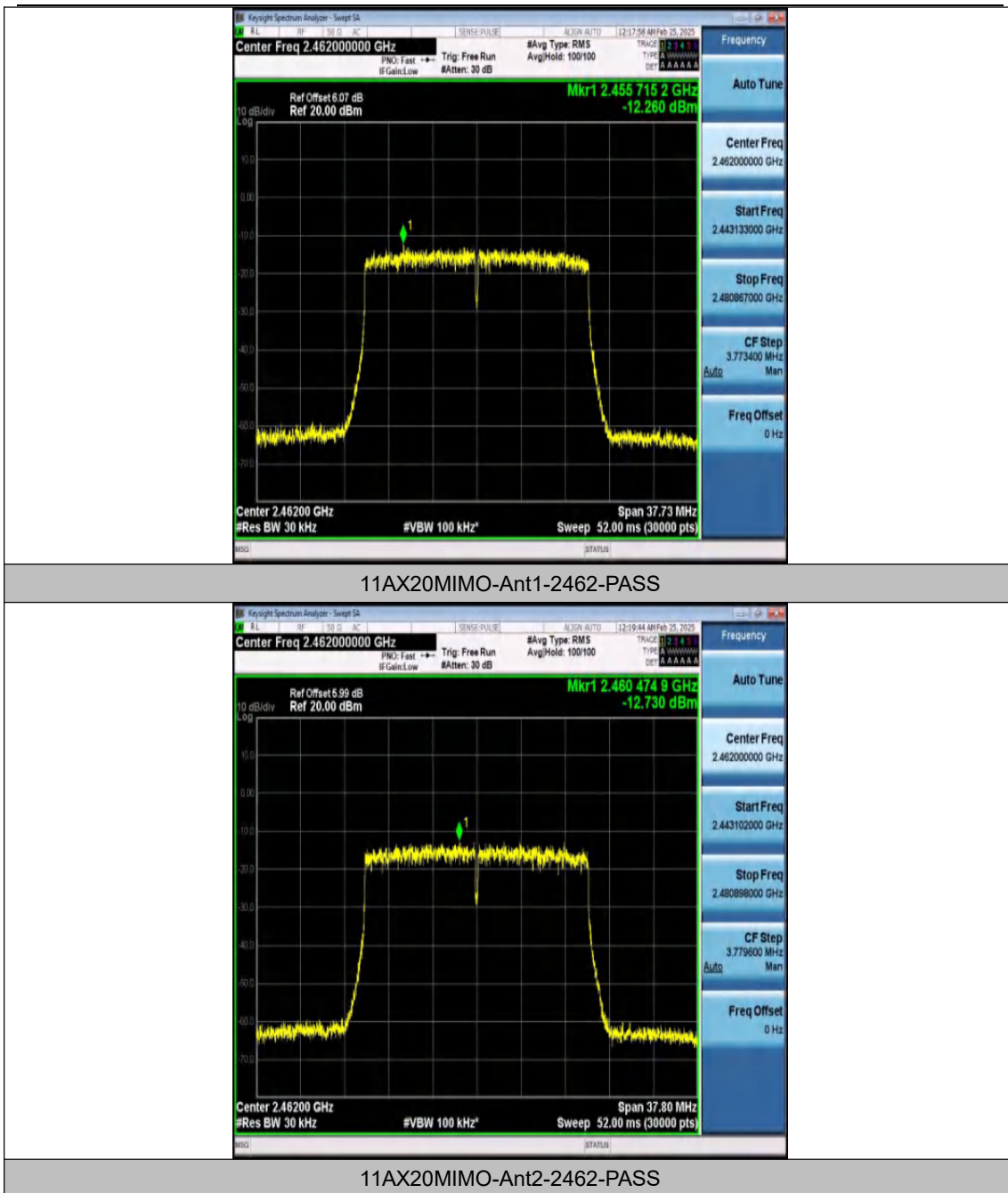
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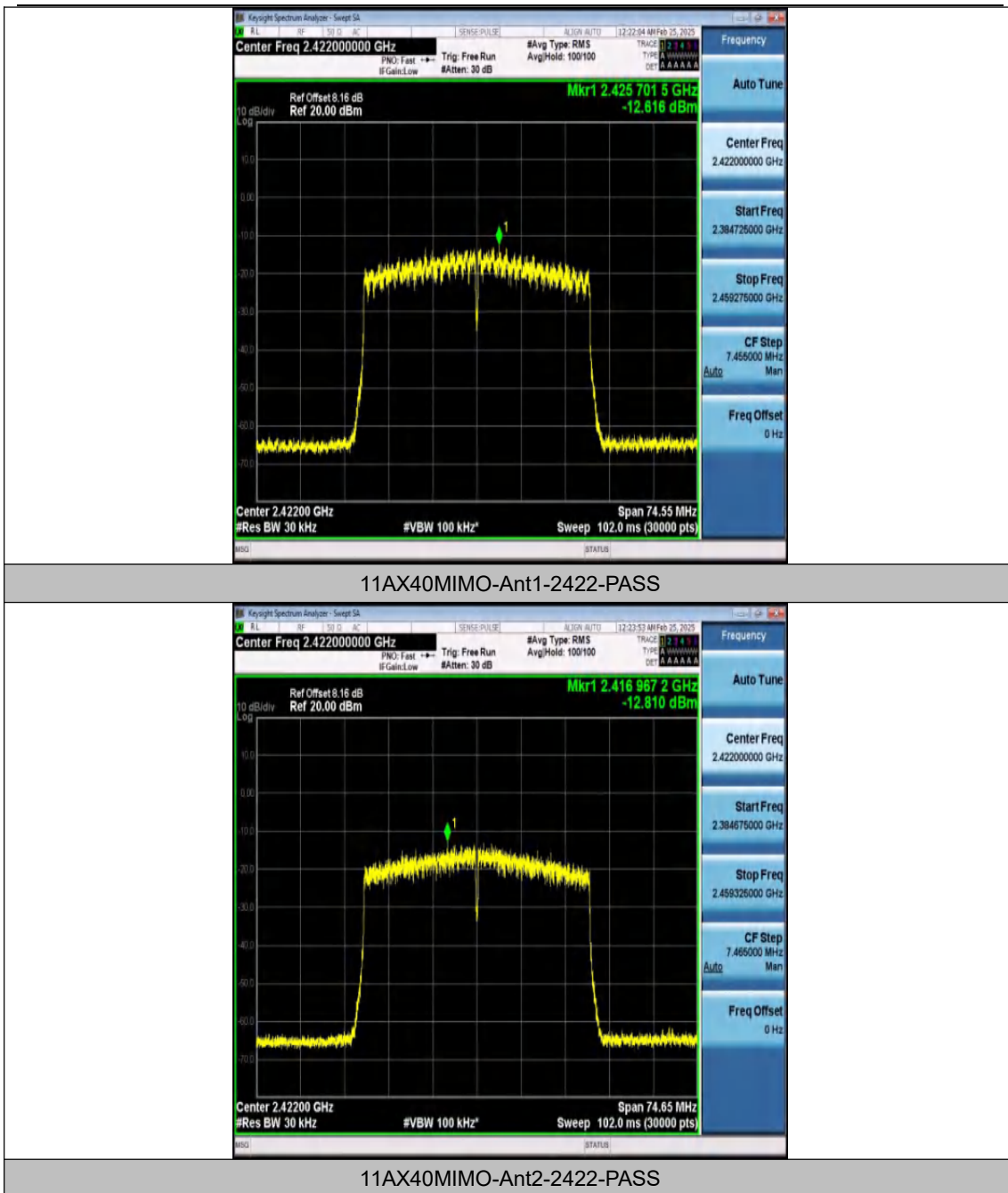


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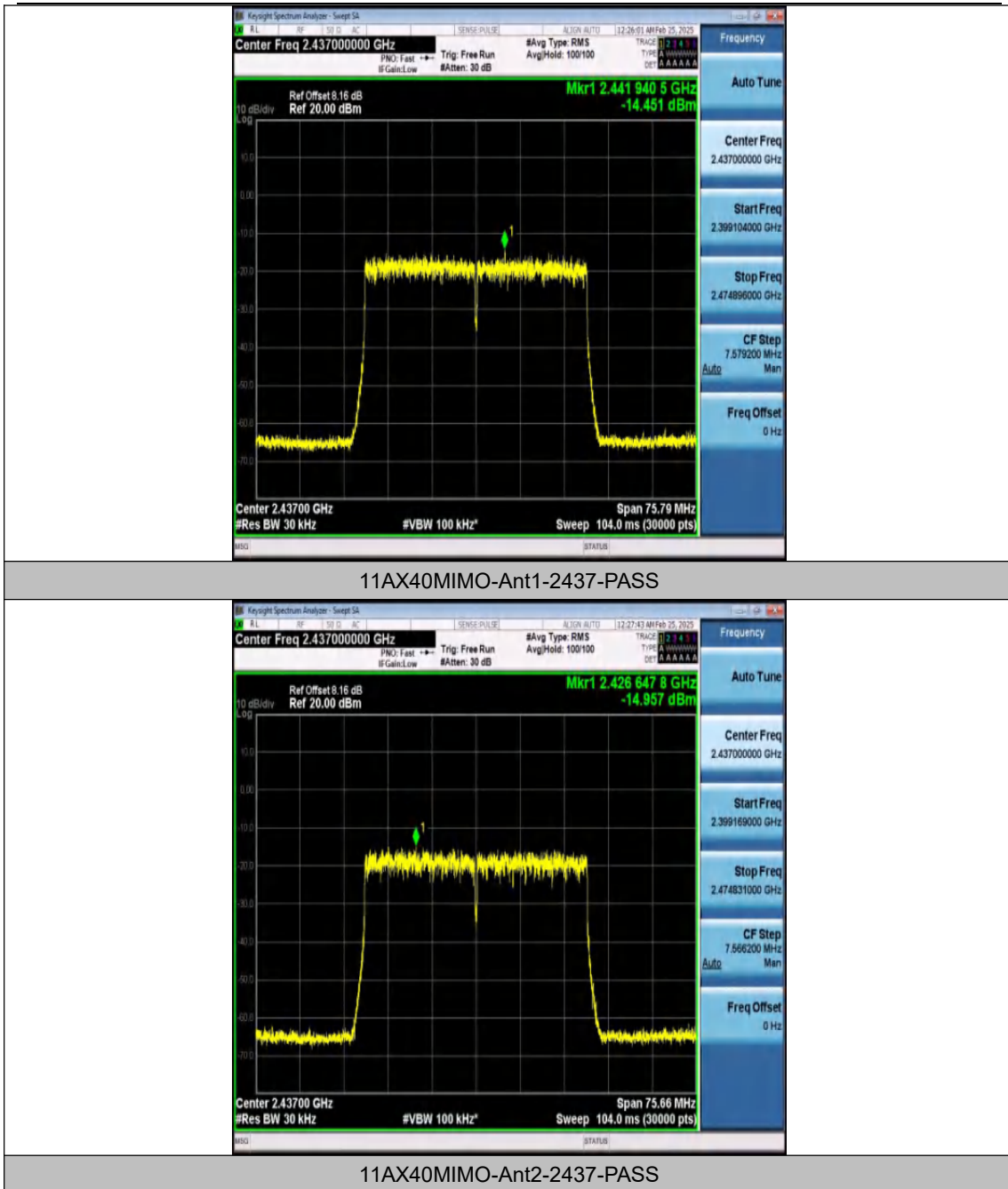


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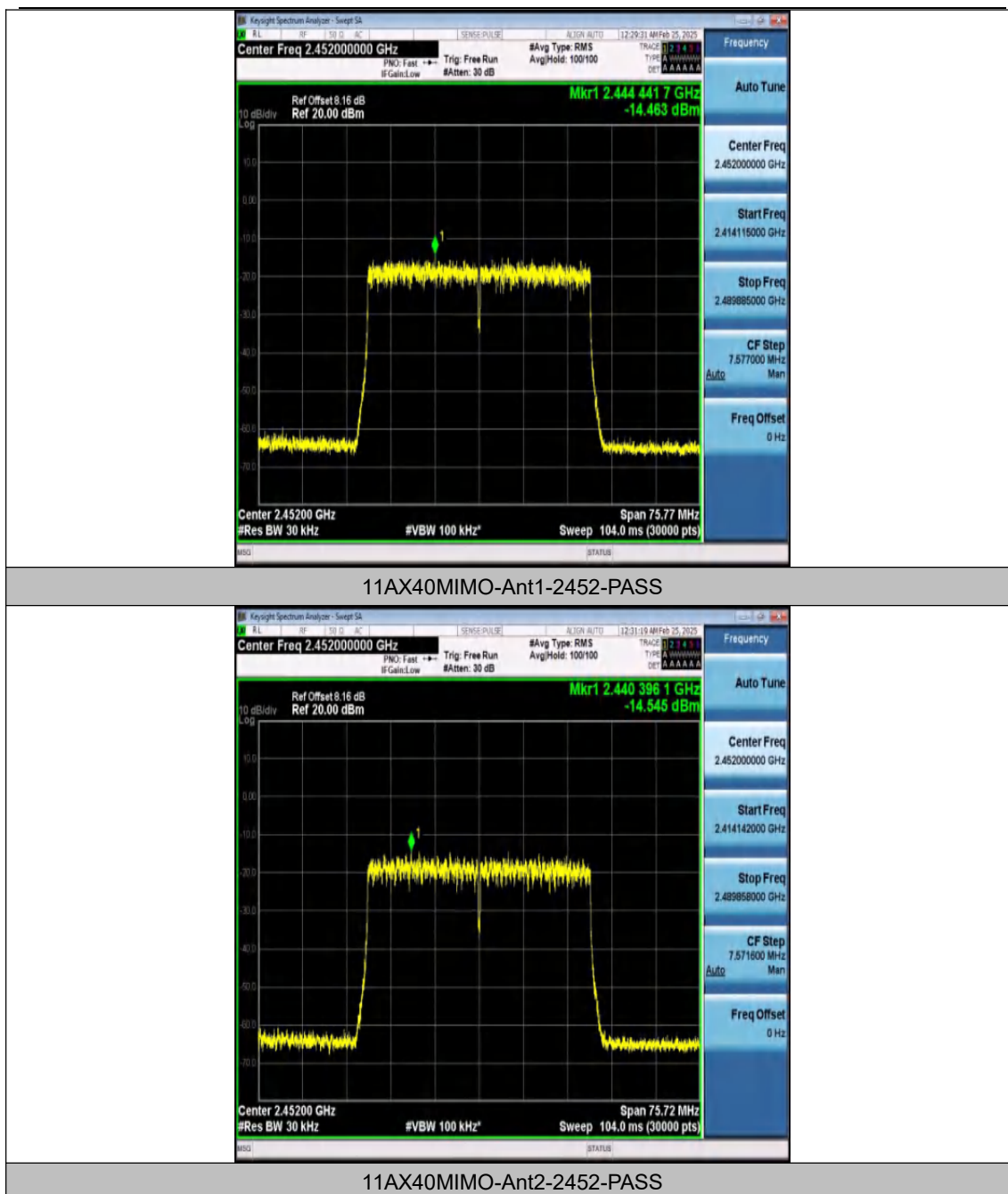
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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.92	-44.9	≤-28.08	PASS
11B	Ant2	Low	2412	2.11	-46.11	≤-27.9	PASS
11B	Ant1	High	2462	0.97	-55.99	≤-29.03	PASS
11B	Ant2	High	2462	1.25	-55.15	≤-28.75	PASS
11G	Ant1	Low	2412	0.46	-50.07	≤-29.54	PASS
11G	Ant2	Low	2412	-1.93	-49.23	≤-31.93	PASS
11G	Ant1	High	2462	-1.24	-53.64	≤-31.24	PASS
11G	Ant2	High	2462	0.26	-54.19	≤-29.75	PASS
11N20MIMO	Ant1	Low	2412	1.31	-47.15	≤-28.69	PASS
11N20MIMO	Ant2	Low	2412	0.76	-46.61	≤-29.25	PASS
11N20MIMO	Ant1	High	2462	0.05	-54.72	≤-29.95	PASS
11N20MIMO	Ant2	High	2462	0.64	-53.25	≤-29.36	PASS
11N40MIMO	Ant1	Low	2422	-1.82	-51.29	≤-31.82	PASS
11N40MIMO	Ant2	Low	2422	-1.42	-51.36	≤-31.42	PASS
11N40MIMO	Ant1	High	2452	-2.54	-52.68	≤-32.54	PASS
11N40MIMO	Ant2	High	2452	-2.26	-51.8	≤-32.26	PASS
11AX20MIMO	Ant1	Low	2412	1.71	-47.99	≤-28.29	PASS
11AX20MIMO	Ant2	Low	2412	1.56	-48.66	≤-28.44	PASS
11AX20MIMO	Ant1	High	2462	-0.27	-52.94	≤-30.27	PASS
11AX20MIMO	Ant2	High	2462	-0.16	-53.29	≤-30.16	PASS
11AX40MIMO	Ant1	Low	2422	-1.49	-53.15	≤-31.49	PASS
11AX40MIMO	Ant2	Low	2422	-0.75	-49.42	≤-30.75	PASS
11AX40MIMO	Ant1	High	2452	-3.07	-51.92	≤-33.07	PASS
11AX40MIMO	Ant2	High	2452	-3.12	-51.6	≤-33.12	PASS



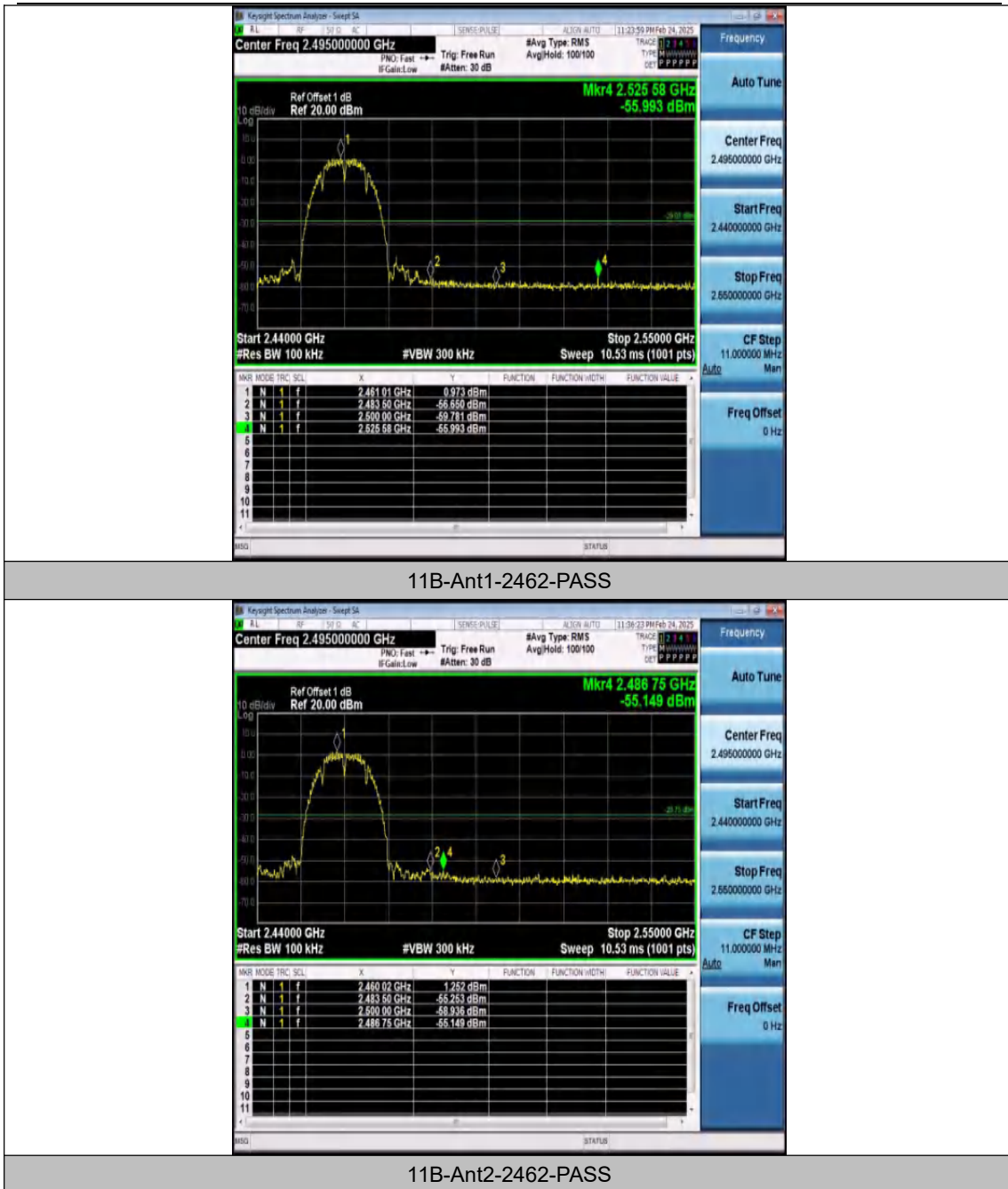
Test Graphs

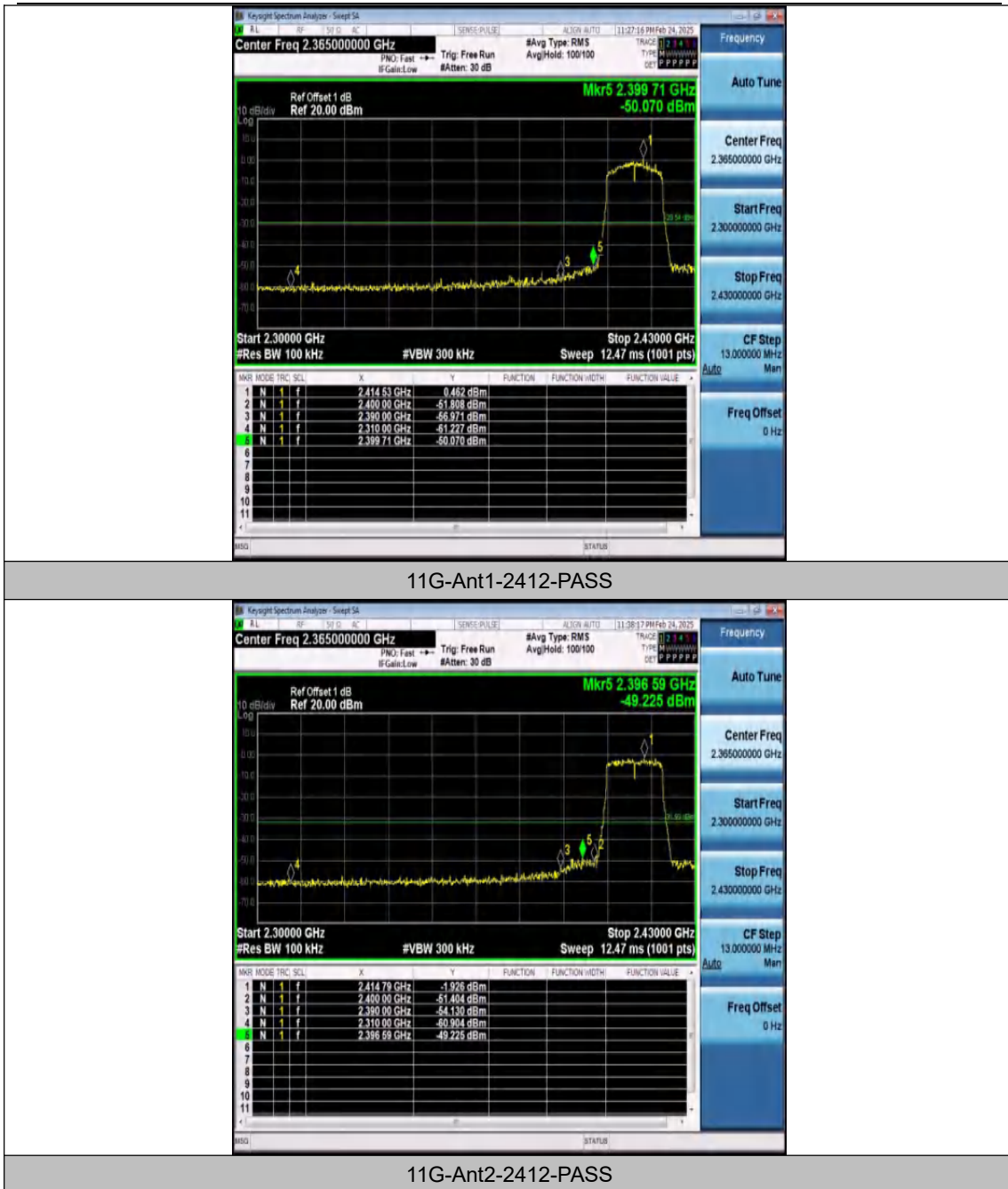


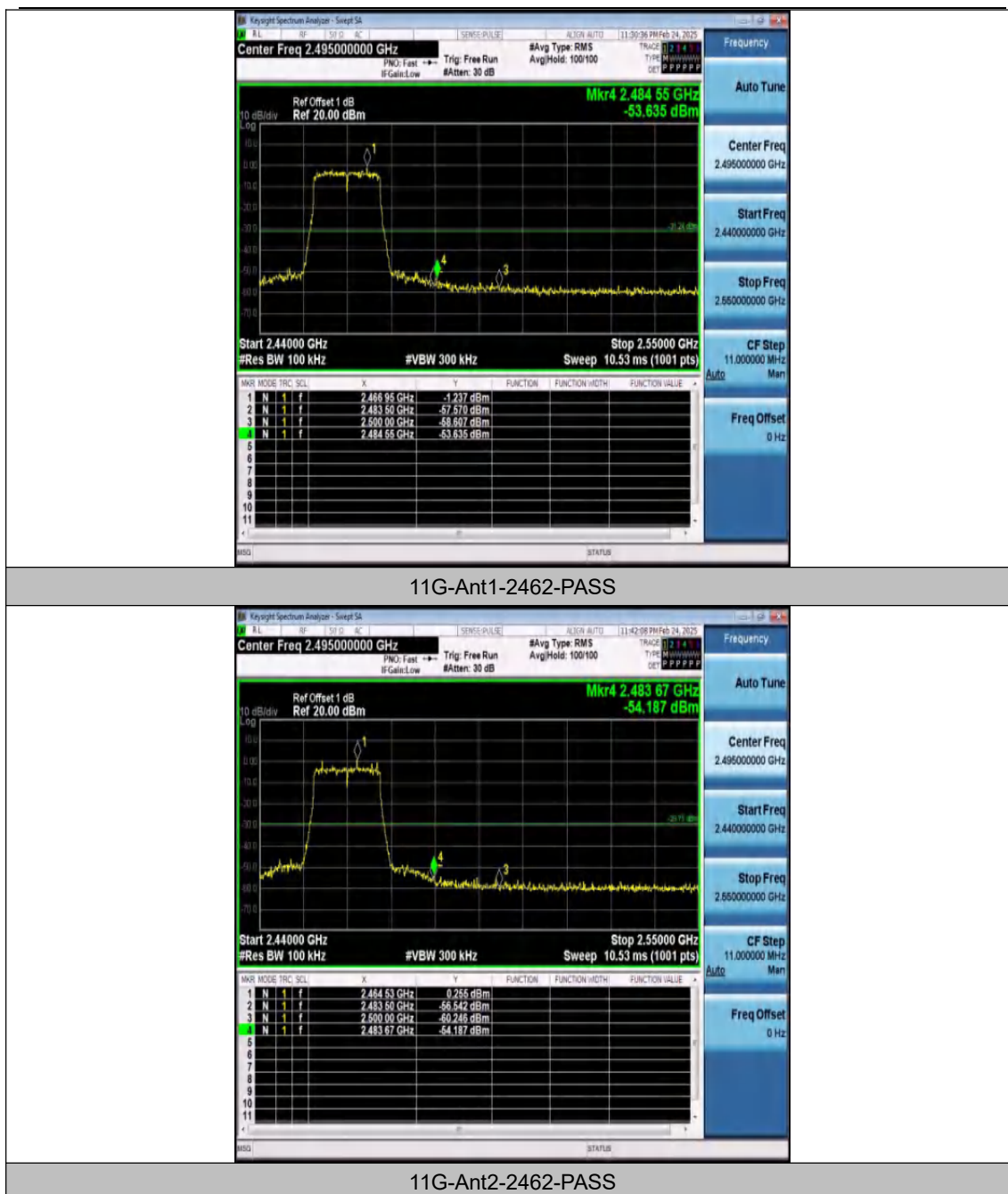
11B-Ant1-2412-PASS

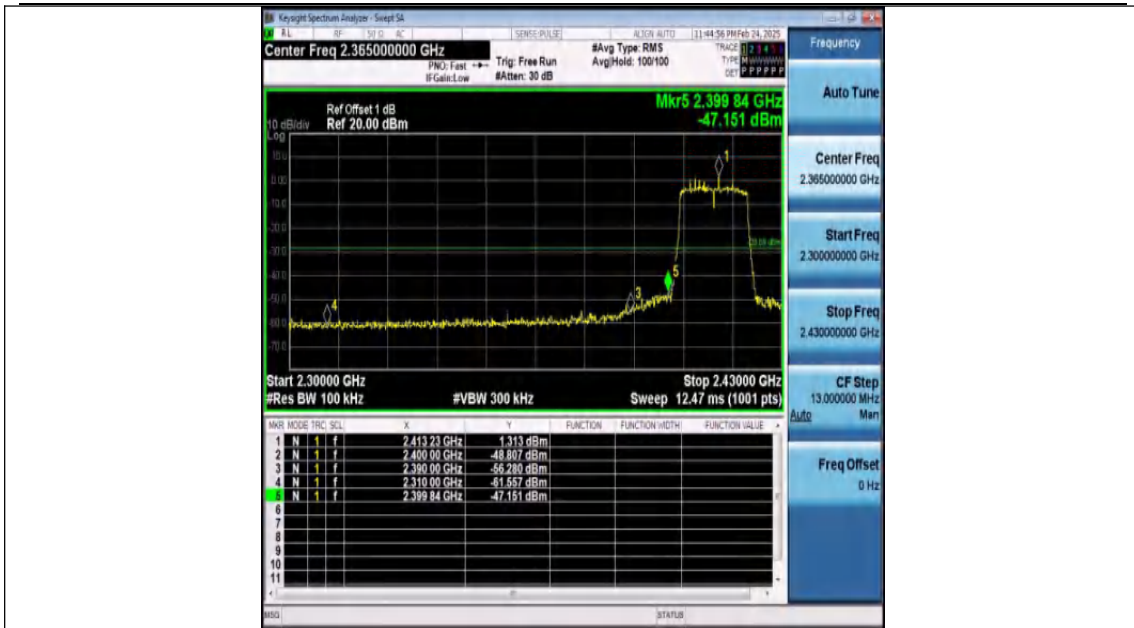


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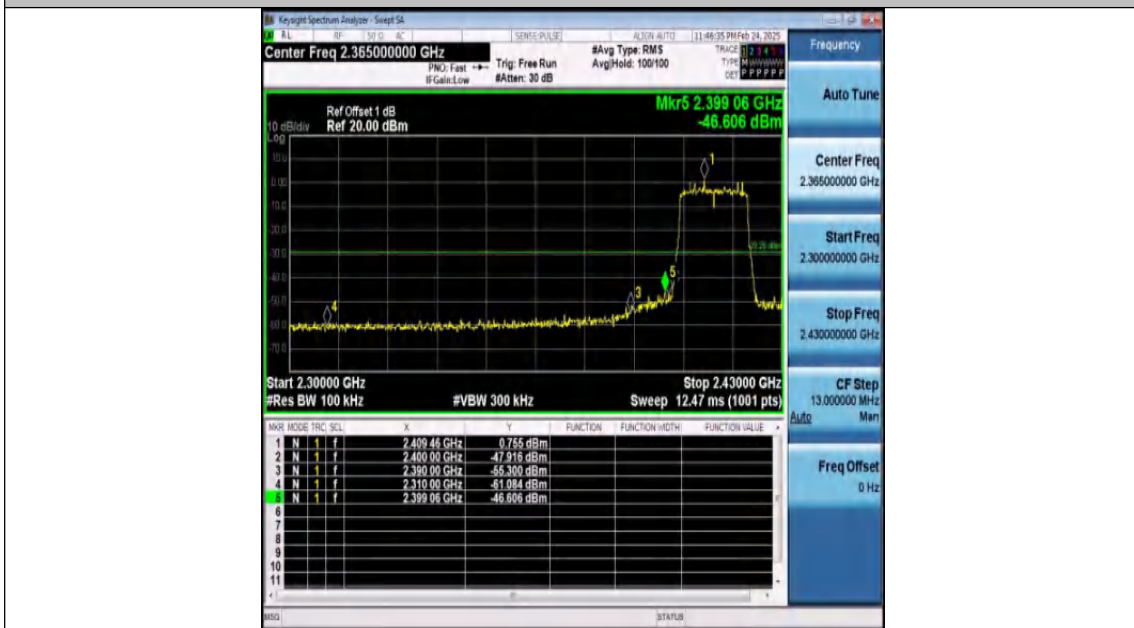








11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS