

Appendix Test Data

Report No.:	1812C50209712501	Test Sample No.:	1-2-2
Start Test Date:	2025-06-11	Finish Test Date:	2025-06-11
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.8°C	Relative Humidity:	53%
Pressure:	101kPa		

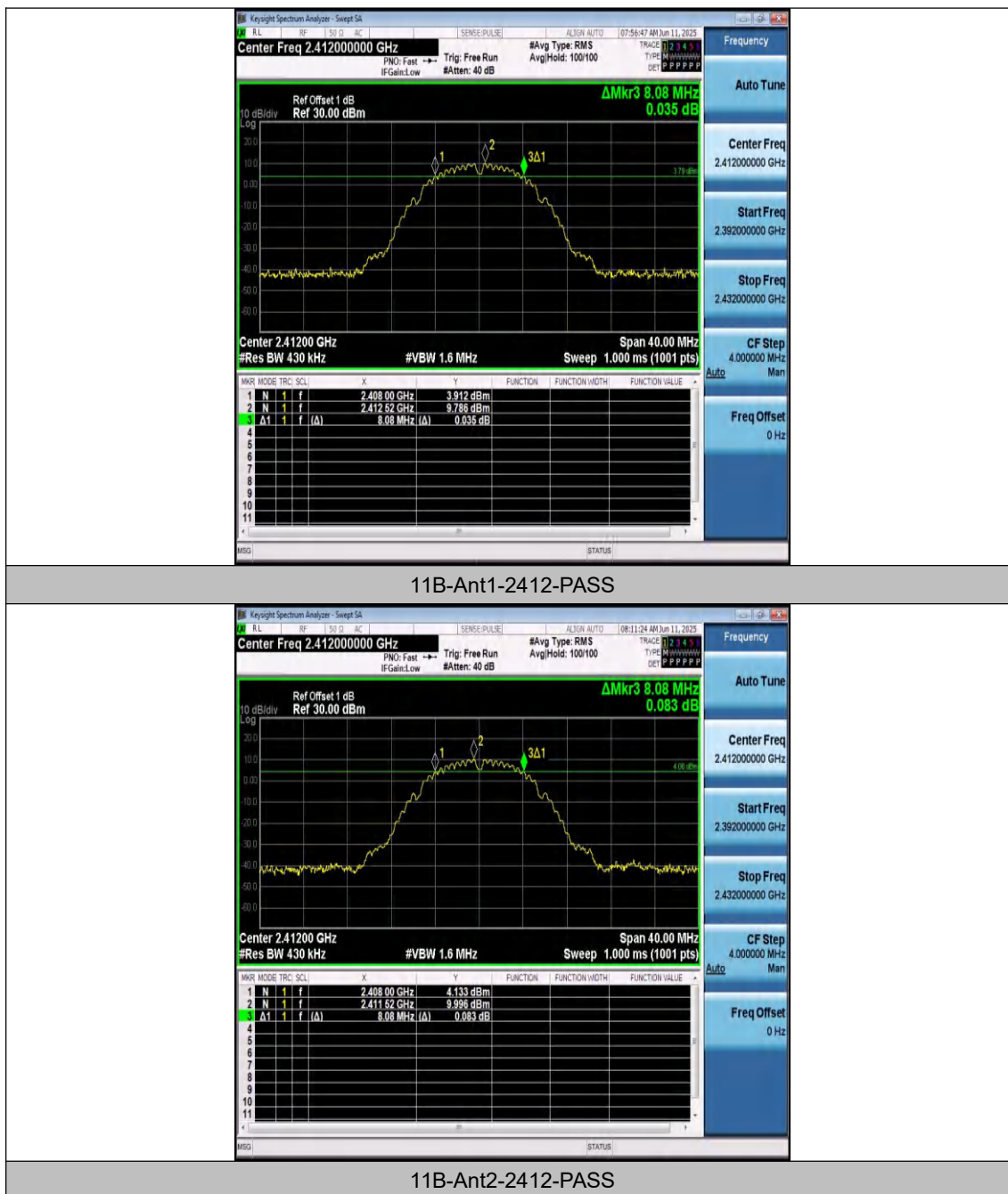
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2408.000	2416.080	0.5	PASS
11B	Ant2	2412	8.080	2408.000	2416.080	0.5	PASS
11B	Ant1	2437	8.120	2432.960	2441.080	0.5	PASS
11B	Ant2	2437	8.120	2432.960	2441.080	0.5	PASS
11B	Ant1	2462	8.080	2458.000	2466.080	0.5	PASS
11B	Ant2	2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	15.800	2404.160	2419.960	0.5	PASS
11G	Ant2	2412	15.640	2404.320	2419.960	0.5	PASS
11G	Ant1	2437	15.680	2429.080	2444.760	0.5	PASS
11G	Ant2	2437	16.040	2429.080	2445.120	0.5	PASS
11G	Ant1	2462	16.000	2454.000	2470.000	0.5	PASS
11G	Ant2	2462	16.040	2454.080	2470.120	0.5	PASS
11N20MIMO	Ant1	2412	15.880	2404.080	2419.960	0.5	PASS
11N20MIMO	Ant2	2412	15.920	2404.200	2420.120	0.5	PASS
11N20MIMO	Ant1	2437	16.080	2428.920	2445.000	0.5	PASS
11N20MIMO	Ant2	2437	15.840	2429.200	2445.040	0.5	PASS
11N20MIMO	Ant1	2462	15.960	2454.200	2470.160	0.5	PASS
11N20MIMO	Ant2	2462	16.080	2454.040	2470.120	0.5	PASS
11AX20MIMO	Ant1	2412	16.120	2404.240	2420.360	0.5	PASS
11AX20MIMO	Ant2	2412	18.120	2403.040	2421.160	0.5	PASS
11AX20MIMO	Ant1	2437	16.640	2428.960	2445.600	0.5	PASS
11AX20MIMO	Ant2	2437	16.520	2429.120	2445.640	0.5	PASS
11AX20MIMO	Ant1	2462	17.760	2453.040	2470.800	0.5	PASS
11AX20MIMO	Ant2	2462	16.400	2454.080	2470.480	0.5	PASS

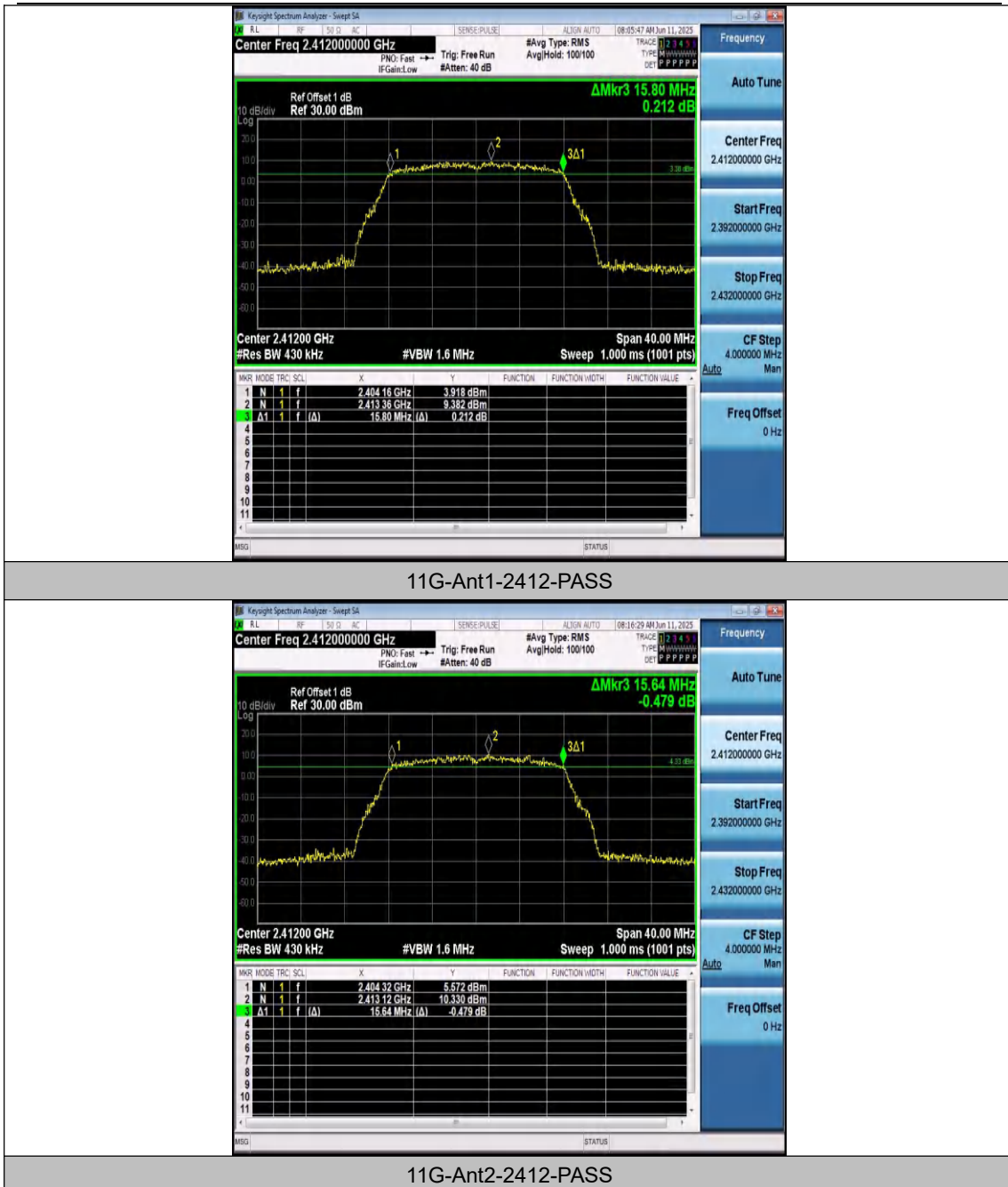


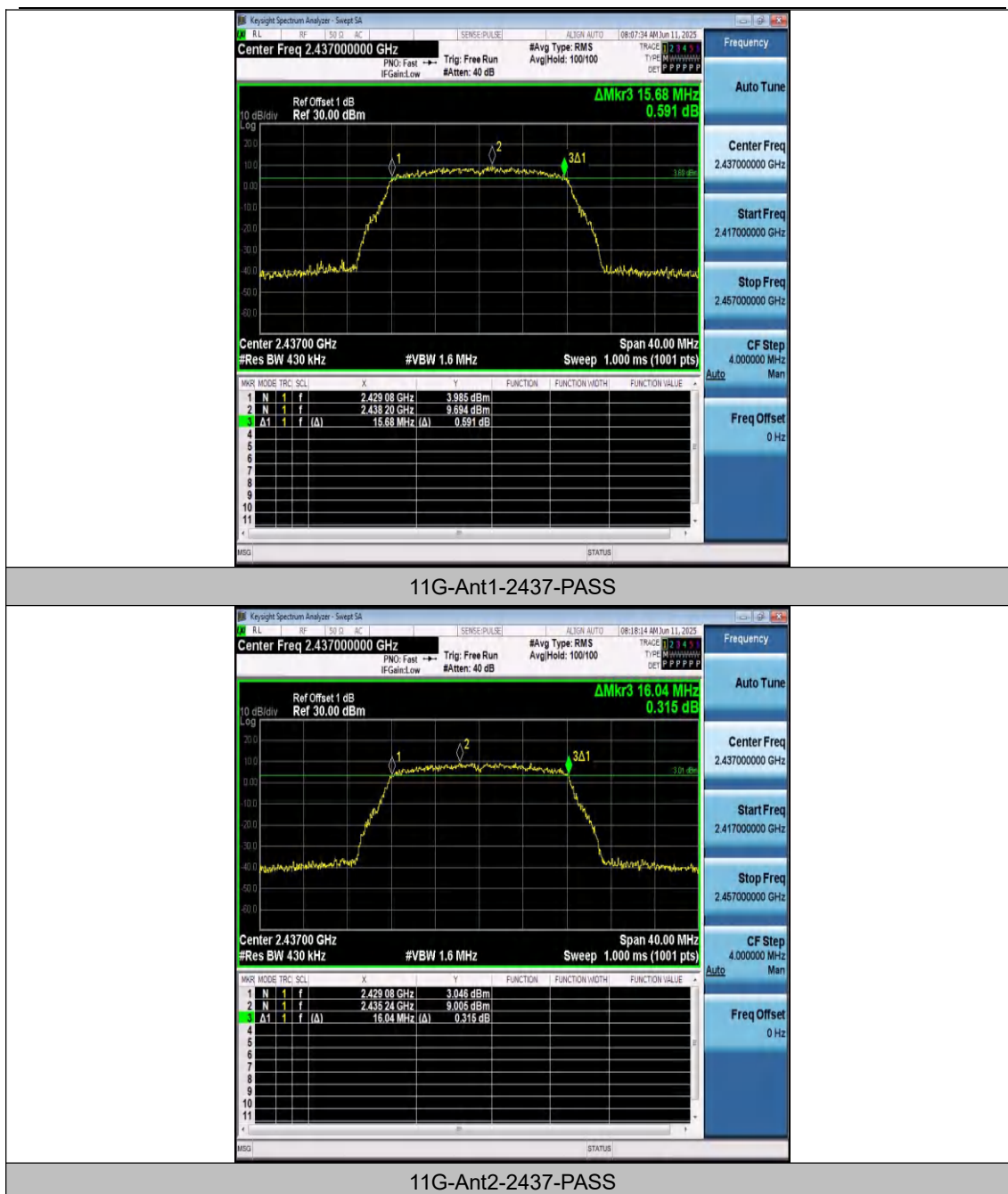
Test Graphs

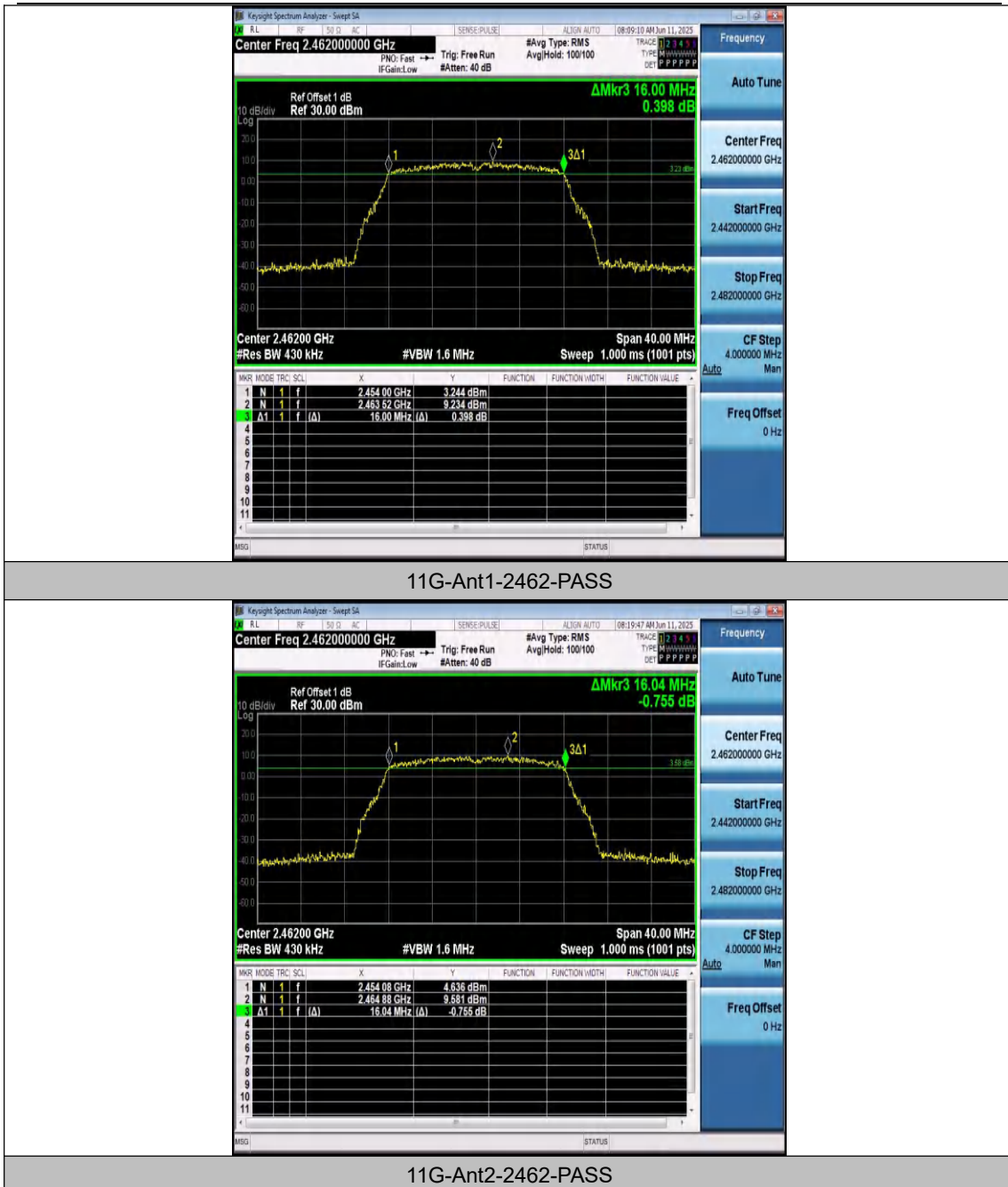


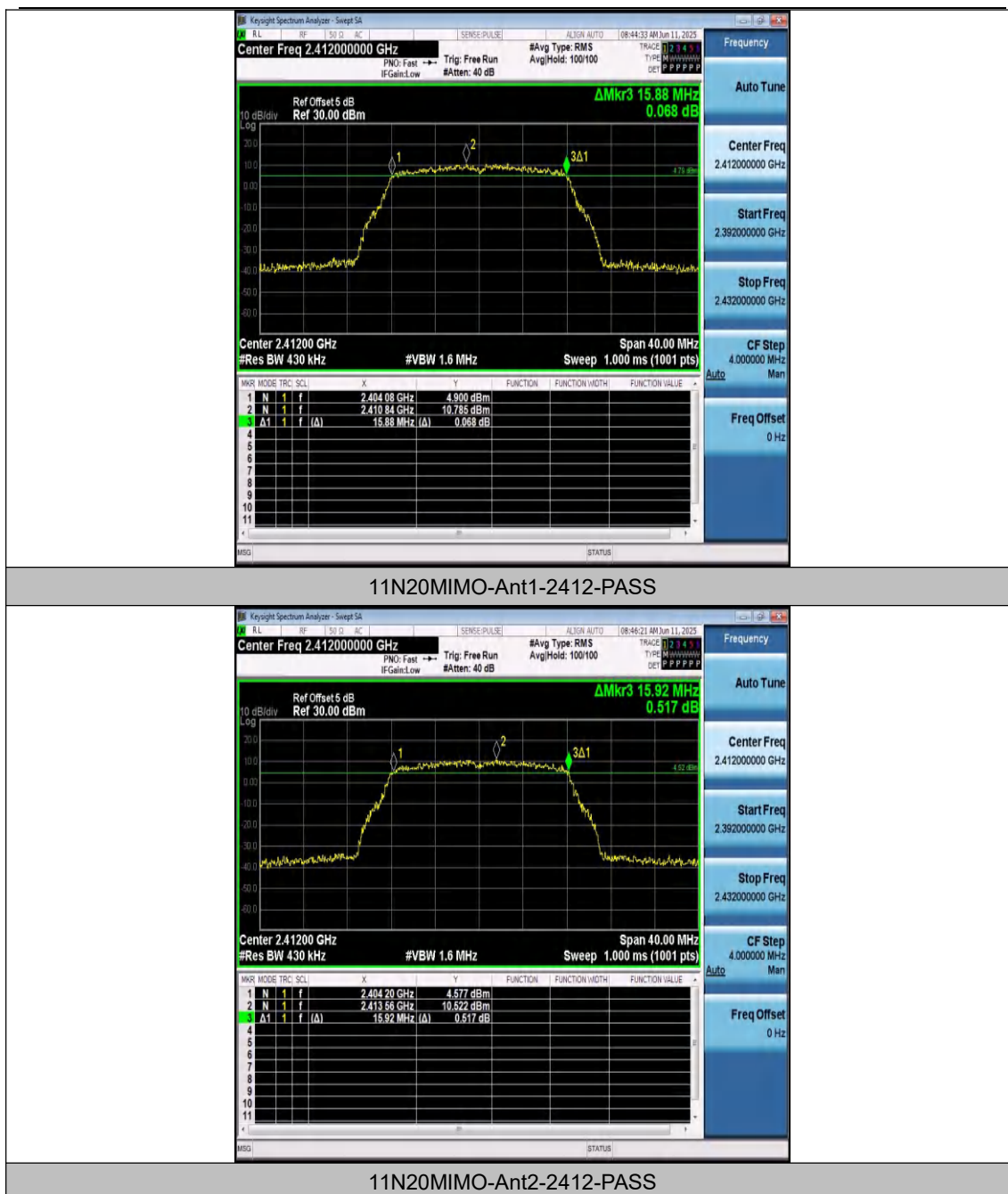


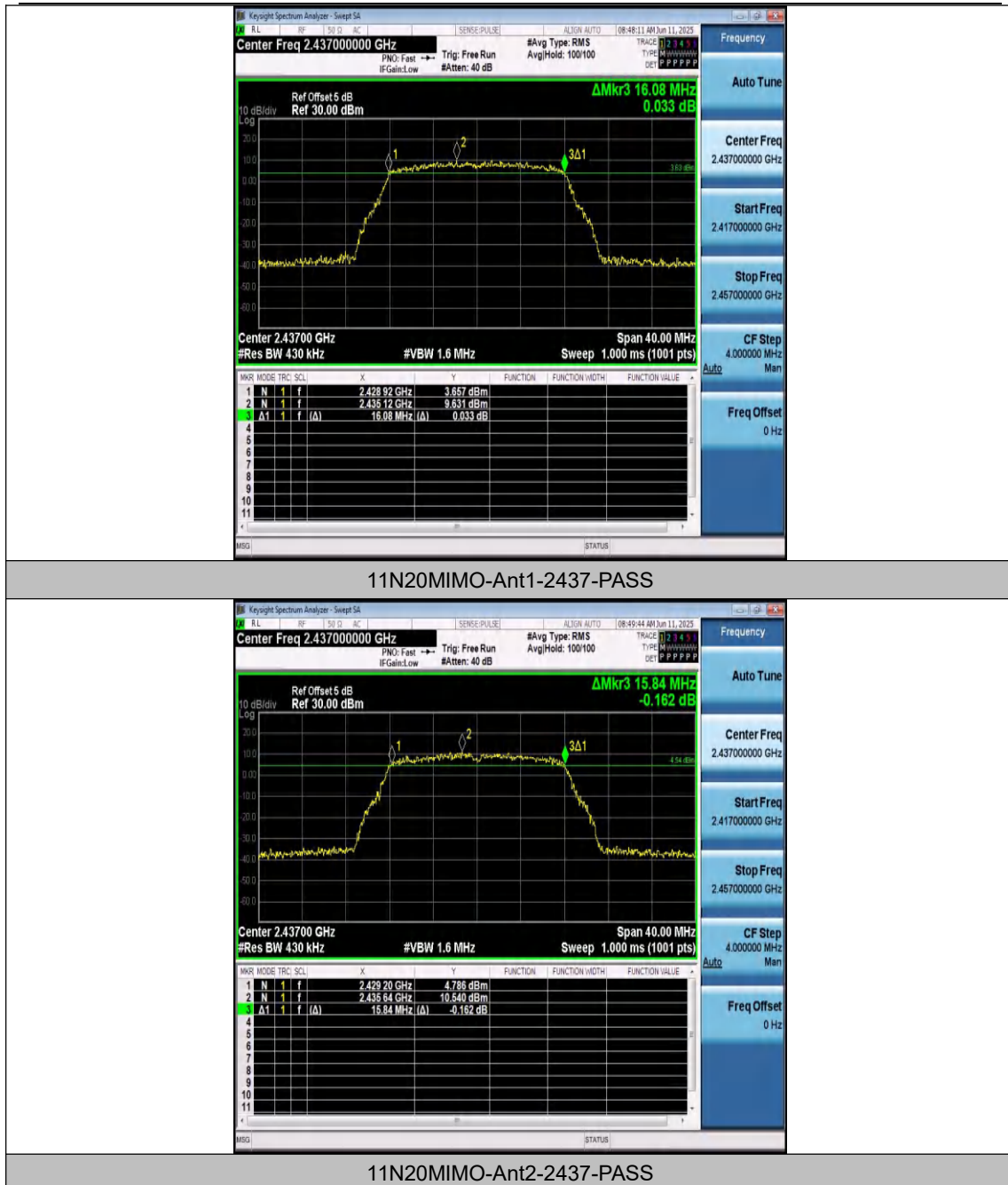


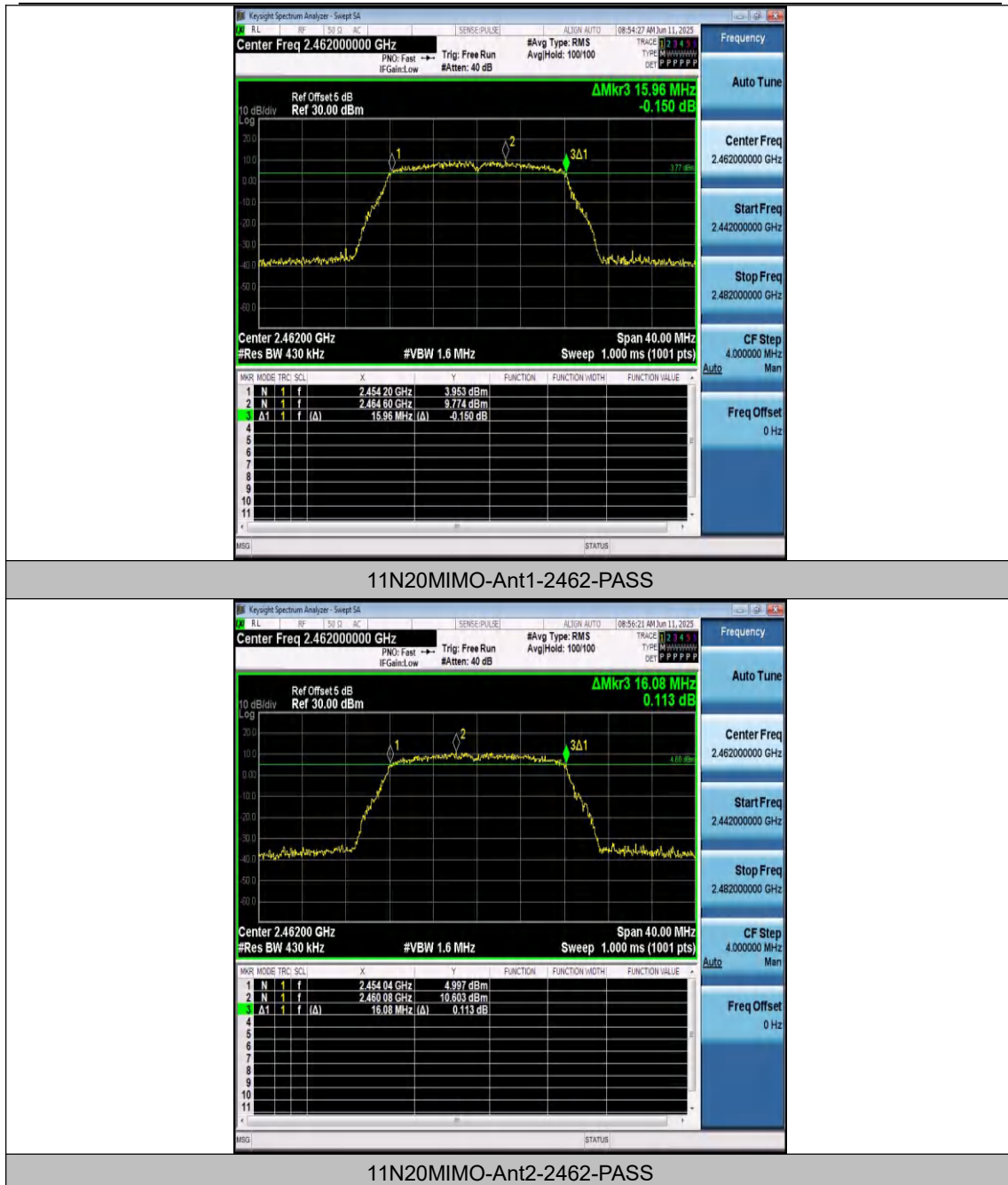


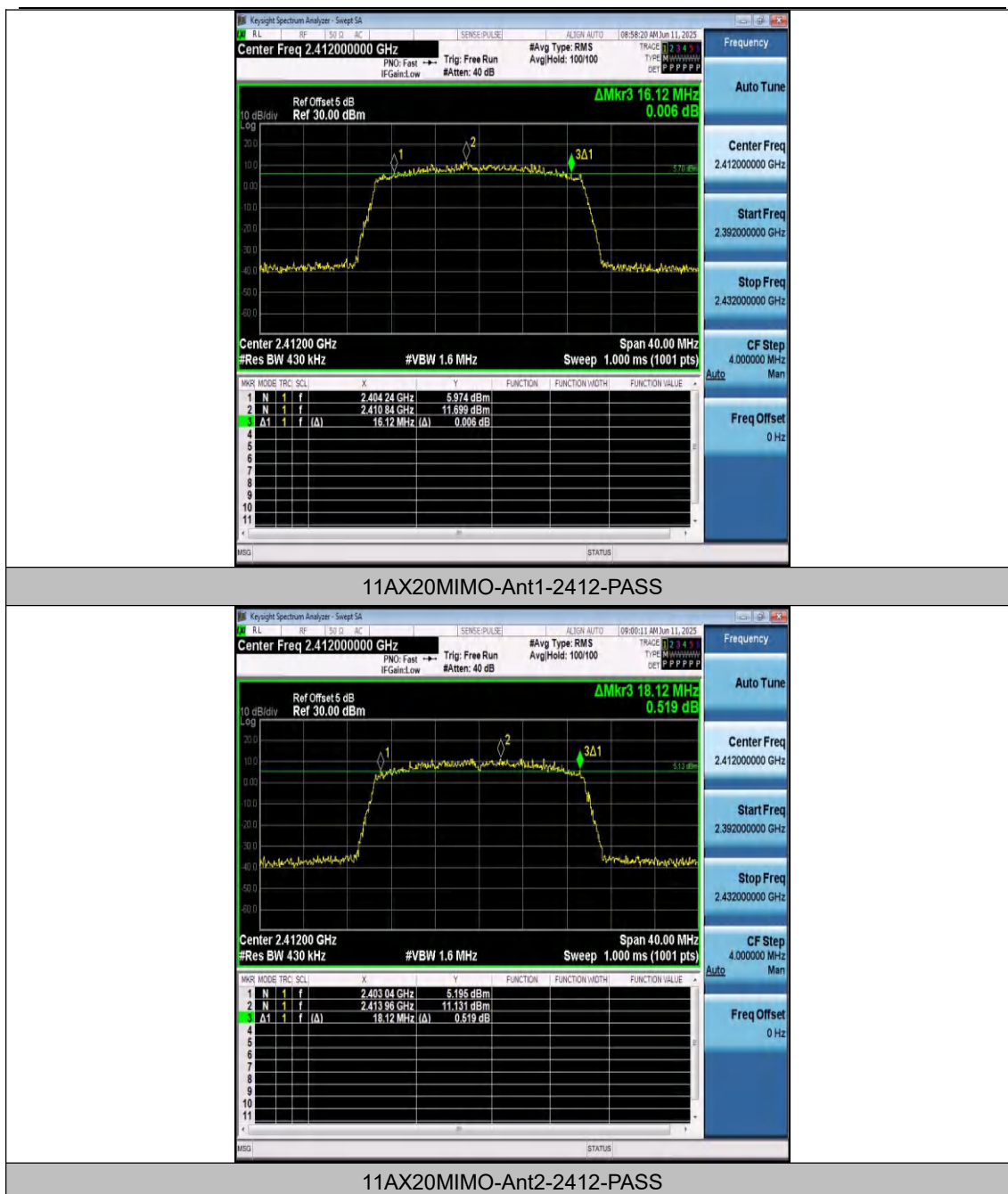


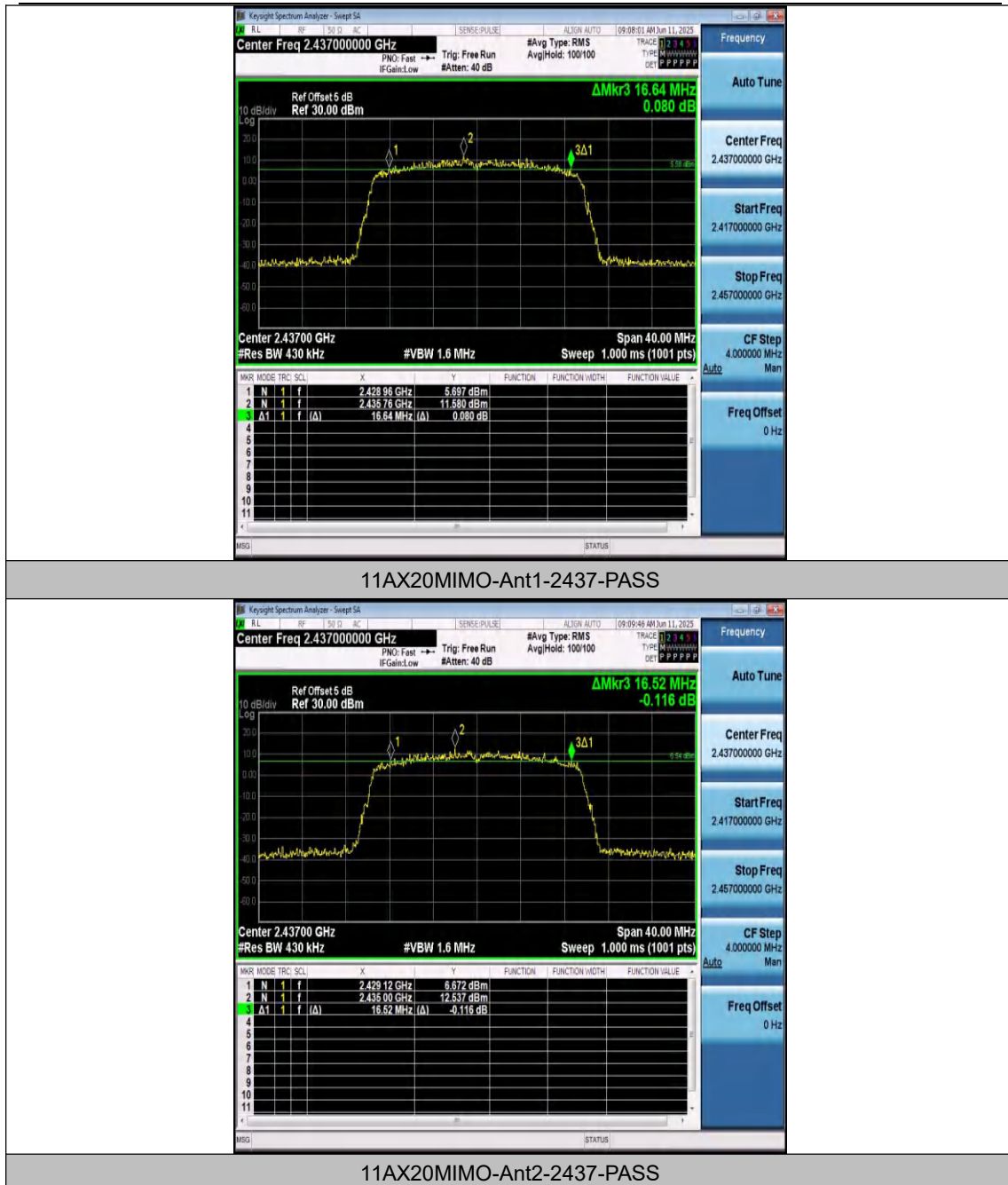


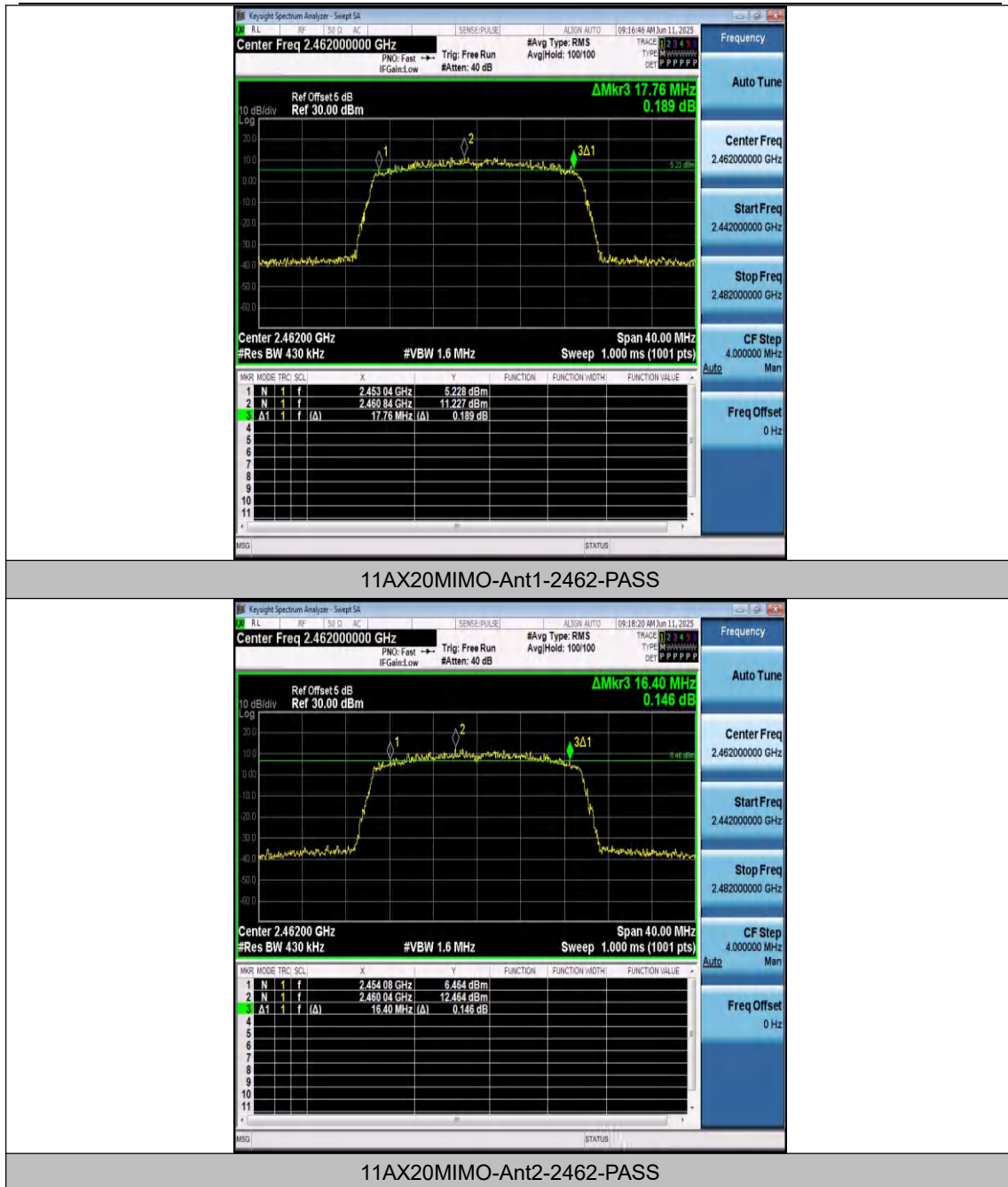












Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.649	2406.7250	2417.3740	---	---
11B	Ant2	2412	10.700	2406.7098	2417.4098	---	---
11B	Ant1	2437	10.667	2431.7172	2442.3842	---	---
11B	Ant2	2437	10.717	2431.7003	2442.4173	---	---
11B	Ant1	2462	10.678	2456.7205	2467.3985	---	---
11B	Ant2	2462	10.710	2456.6941	2467.4041	---	---
11G	Ant1	2412	16.432	2403.8403	2420.2723	---	---
11G	Ant2	2412	16.422	2403.8127	2420.2347	---	---
11G	Ant1	2437	16.444	2428.8147	2445.2587	---	---
11G	Ant2	2437	16.460	2428.7792	2445.2392	---	---
11G	Ant1	2462	16.405	2453.8237	2470.2287	---	---
11G	Ant2	2462	16.443	2453.8178	2470.2608	---	---
11N20MIMO	Ant1	2412	16.435	2403.8128	2420.2478	---	---
11N20MIMO	Ant2	2412	16.458	2403.8022	2420.2602	---	---
11N20MIMO	Ant1	2437	16.456	2428.7904	2445.2464	---	---
11N20MIMO	Ant2	2437	16.484	2428.7980	2445.2820	---	---
11N20MIMO	Ant1	2462	16.436	2453.8128	2470.2488	---	---
11N20MIMO	Ant2	2462	16.438	2453.7976	2470.2356	---	---
11AX20MIMO	Ant1	2412	18.568	2402.7448	2421.3128	---	---
11AX20MIMO	Ant2	2412	18.656	2402.7000	2421.3560	---	---
11AX20MIMO	Ant1	2437	18.580	2427.7307	2446.3107	---	---
11AX20MIMO	Ant2	2437	18.529	2427.7702	2446.2992	---	---
11AX20MIMO	Ant1	2462	18.668	2452.6716	2471.3396	---	---
11AX20MIMO	Ant2	2462	18.609	2452.7288	2471.3378	---	---

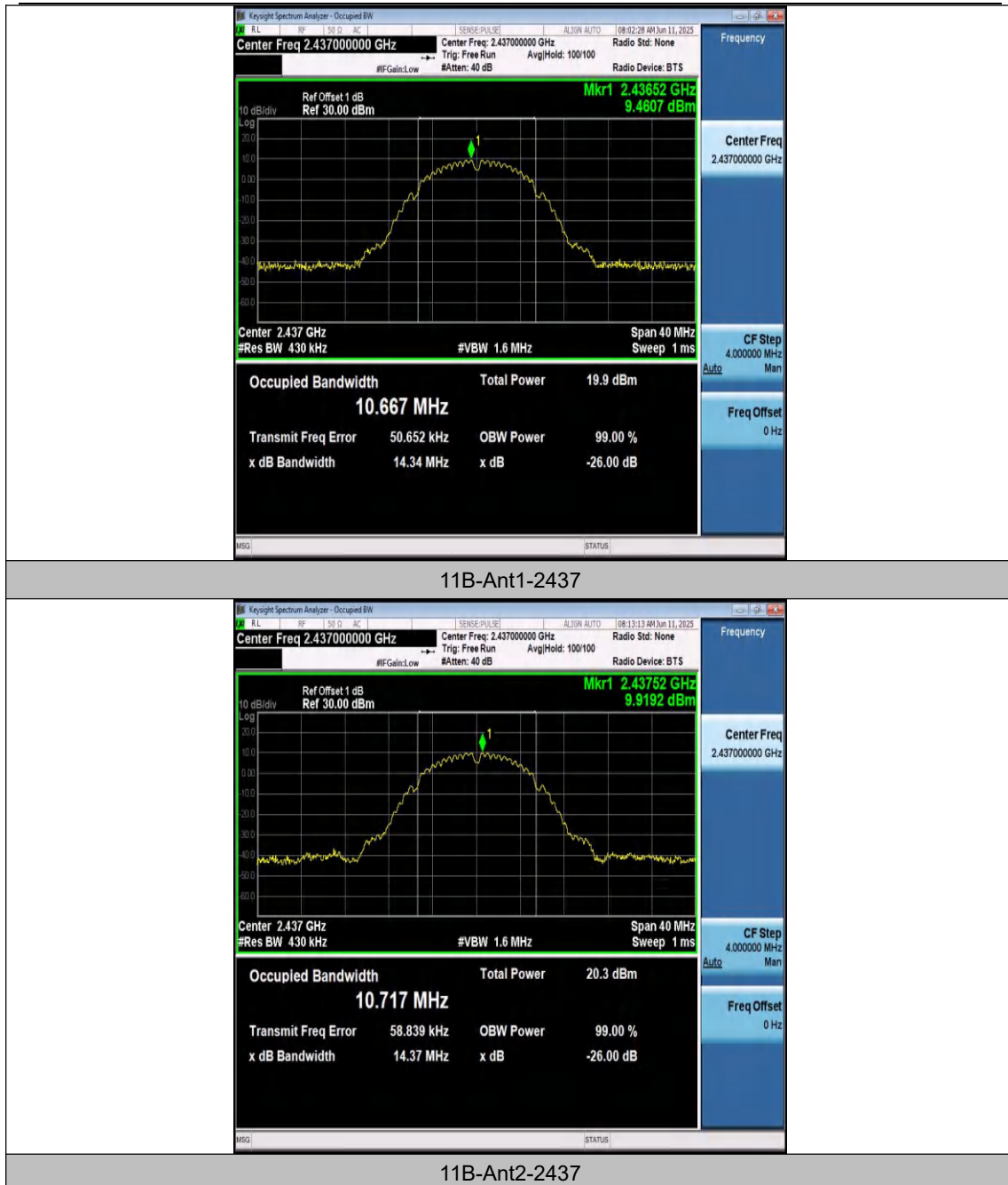
Test Graphs



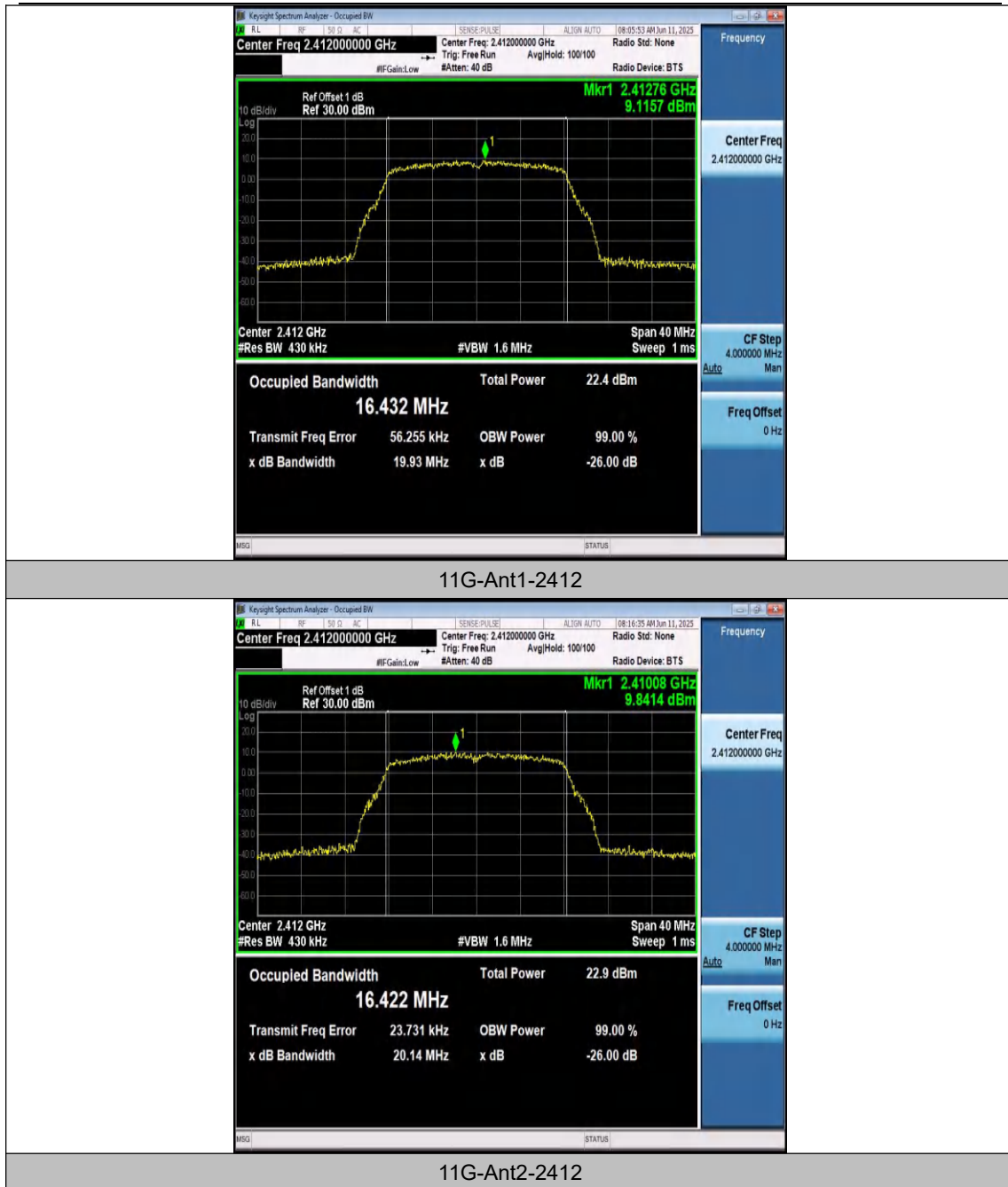
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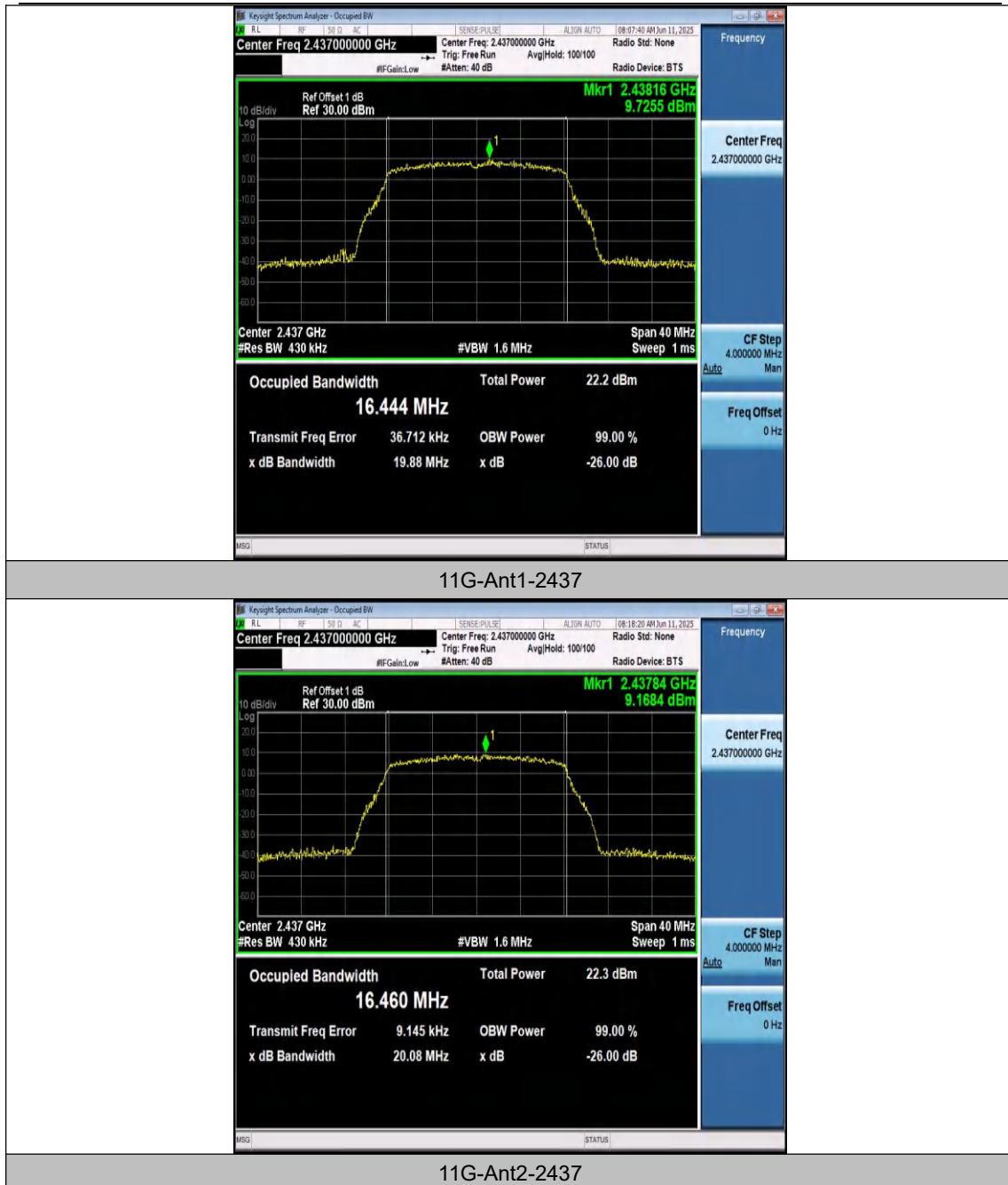
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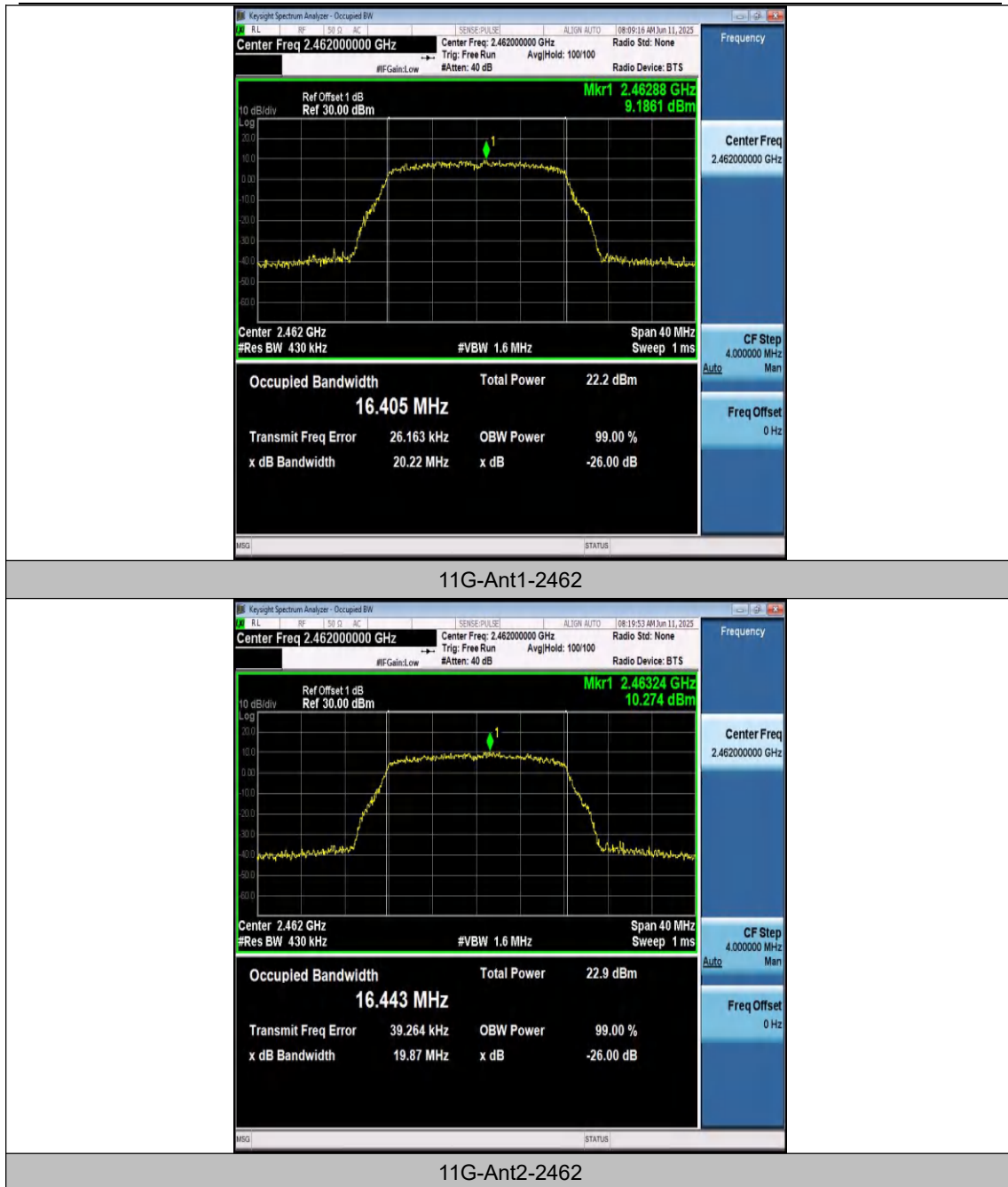
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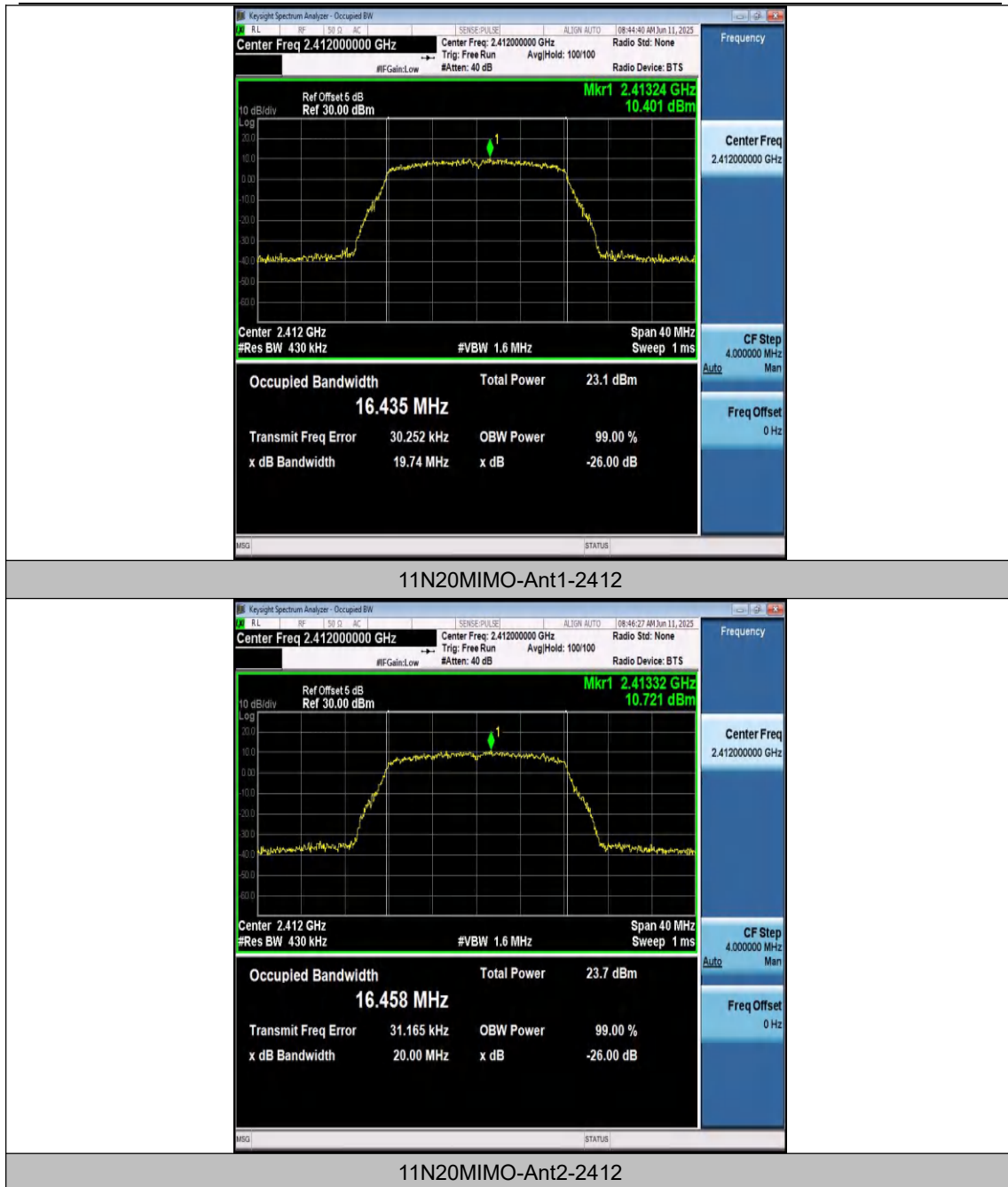


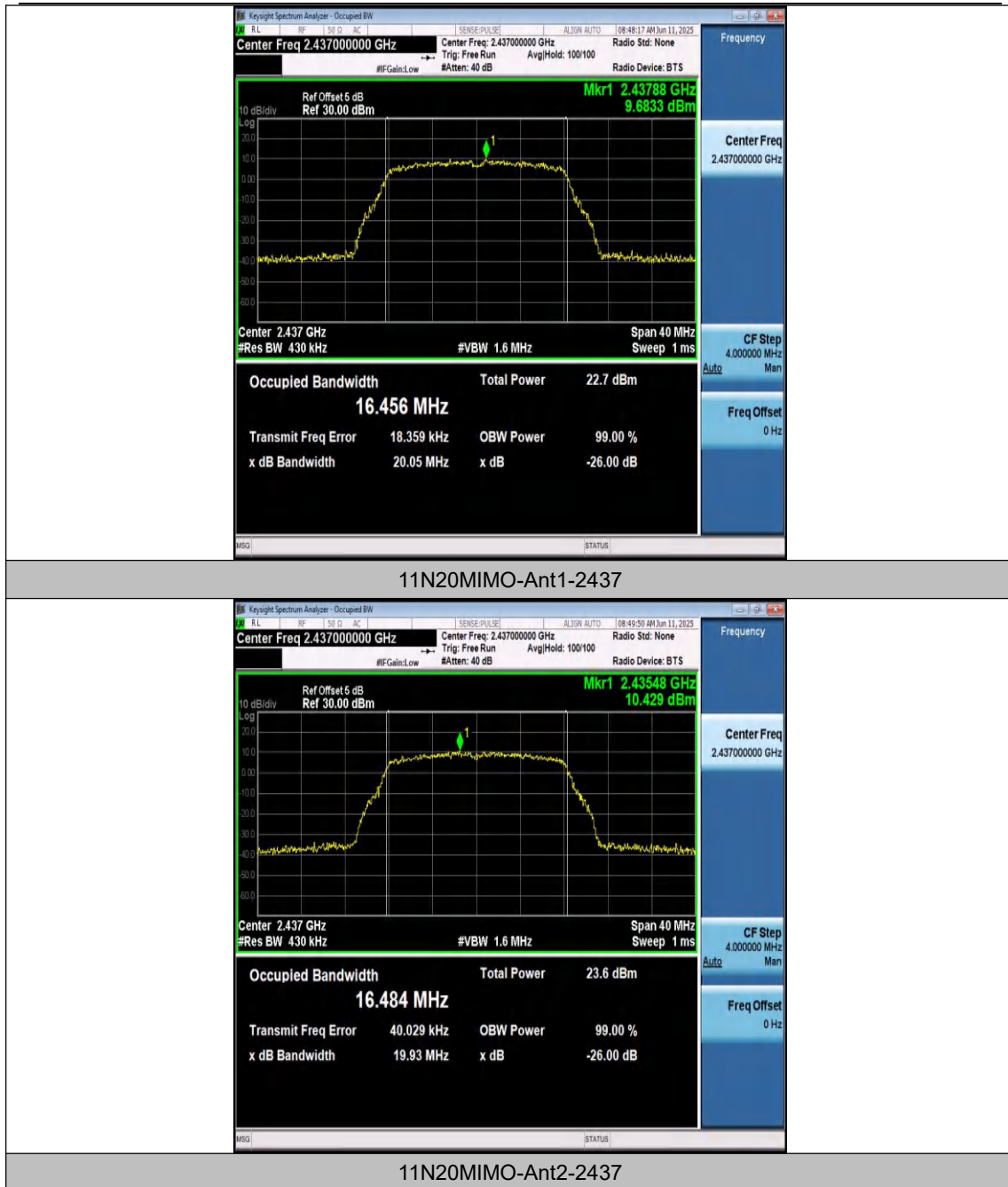








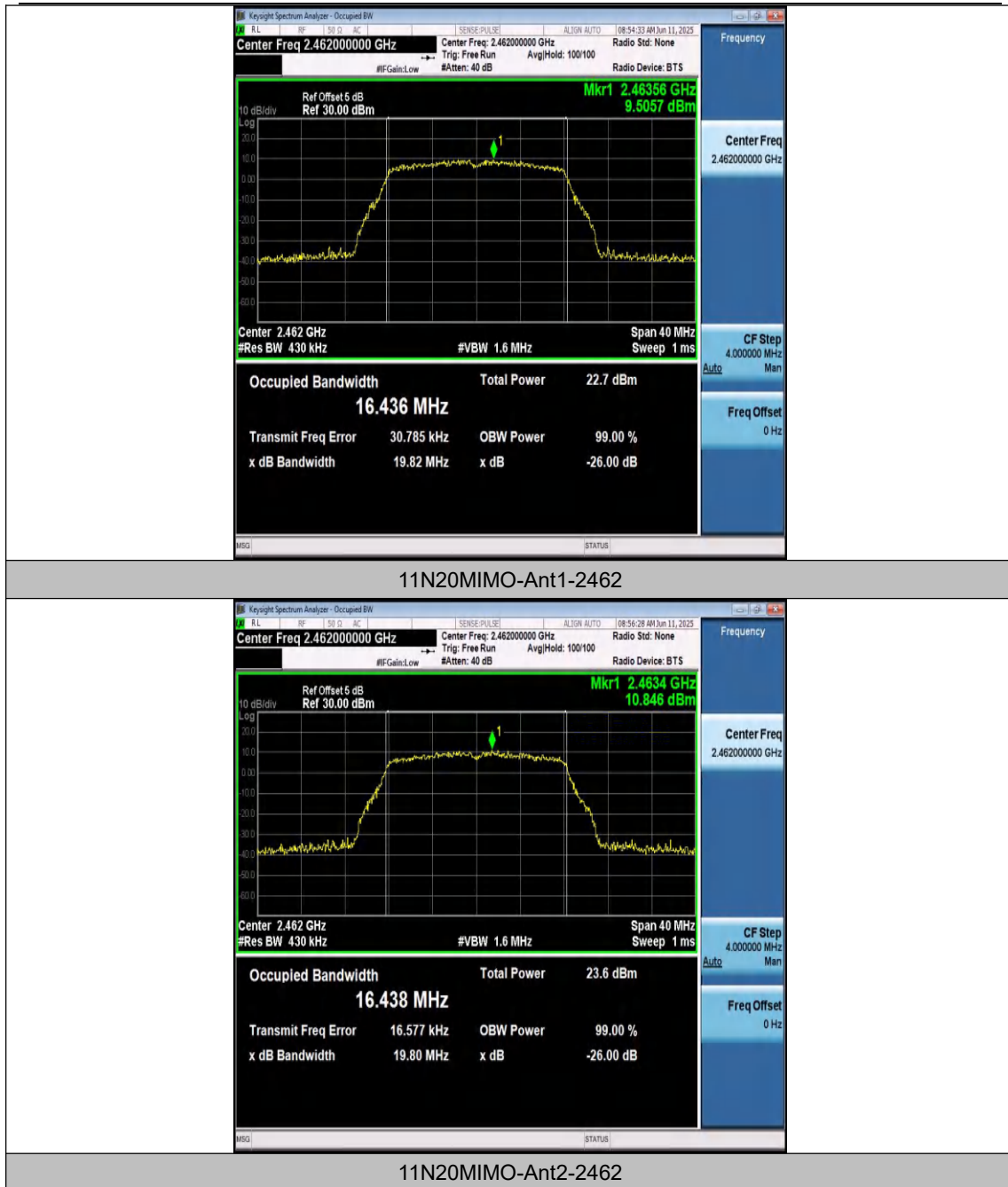




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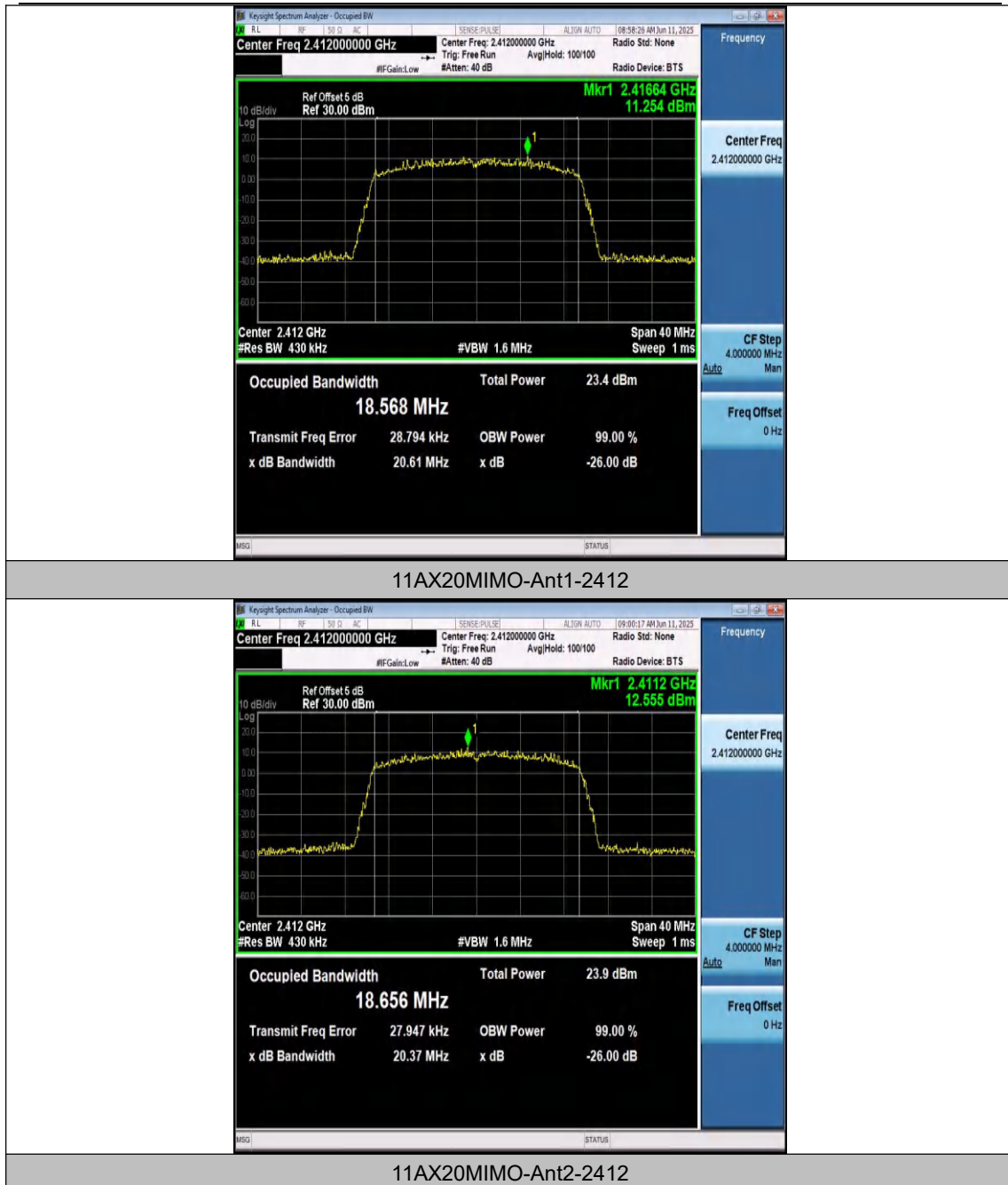
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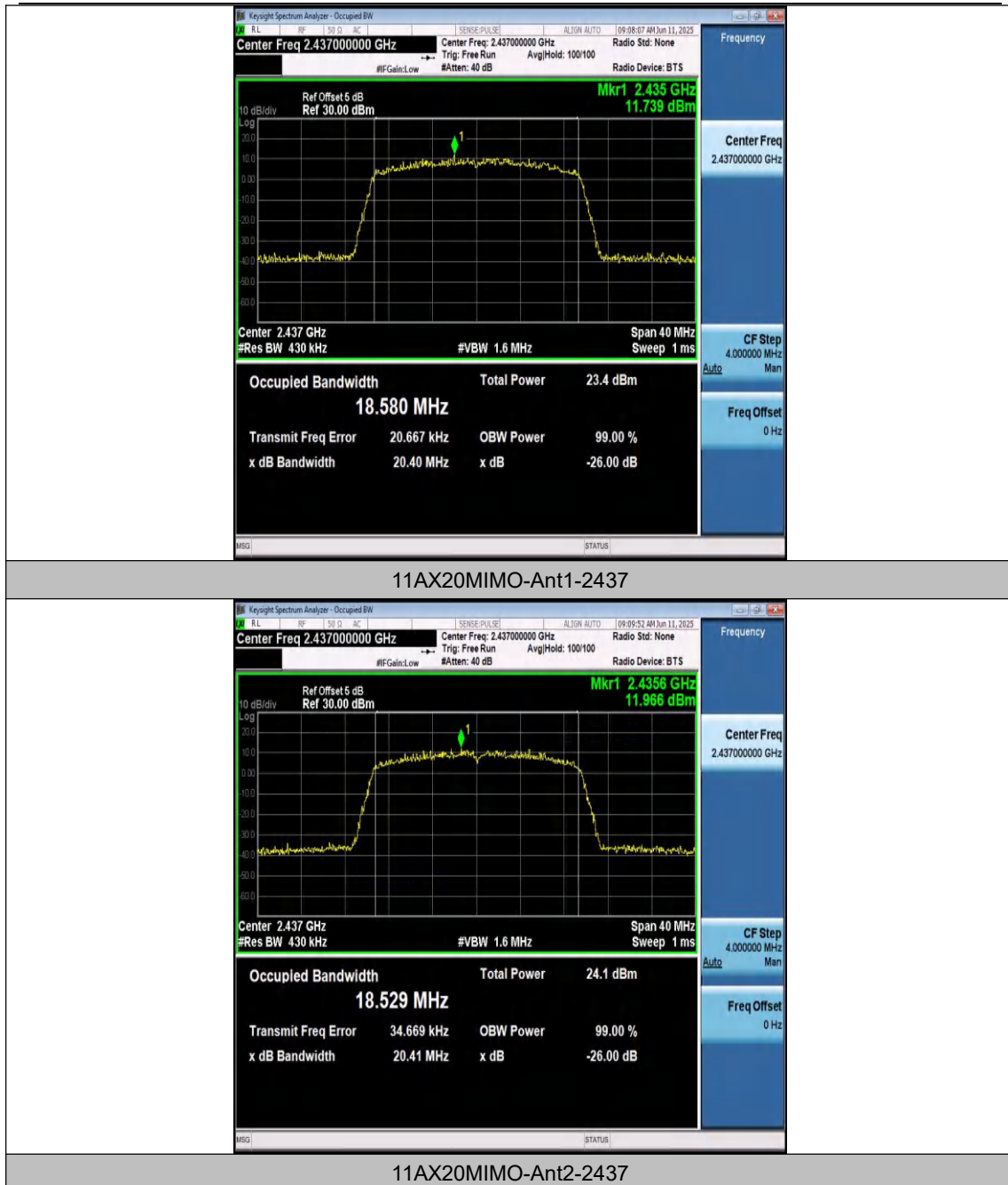


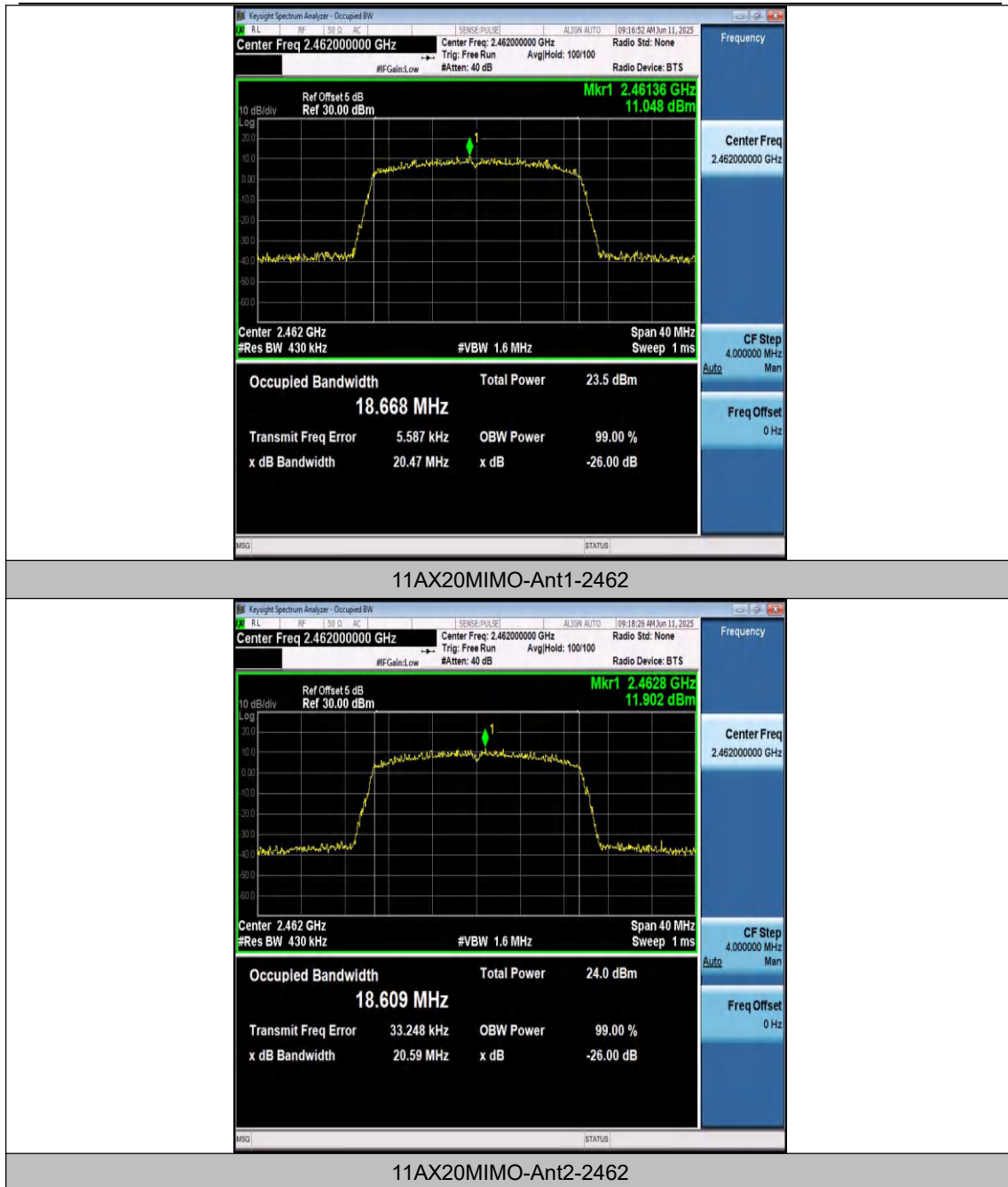
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Appendix C: Maximum conducted output power

Test Result Average

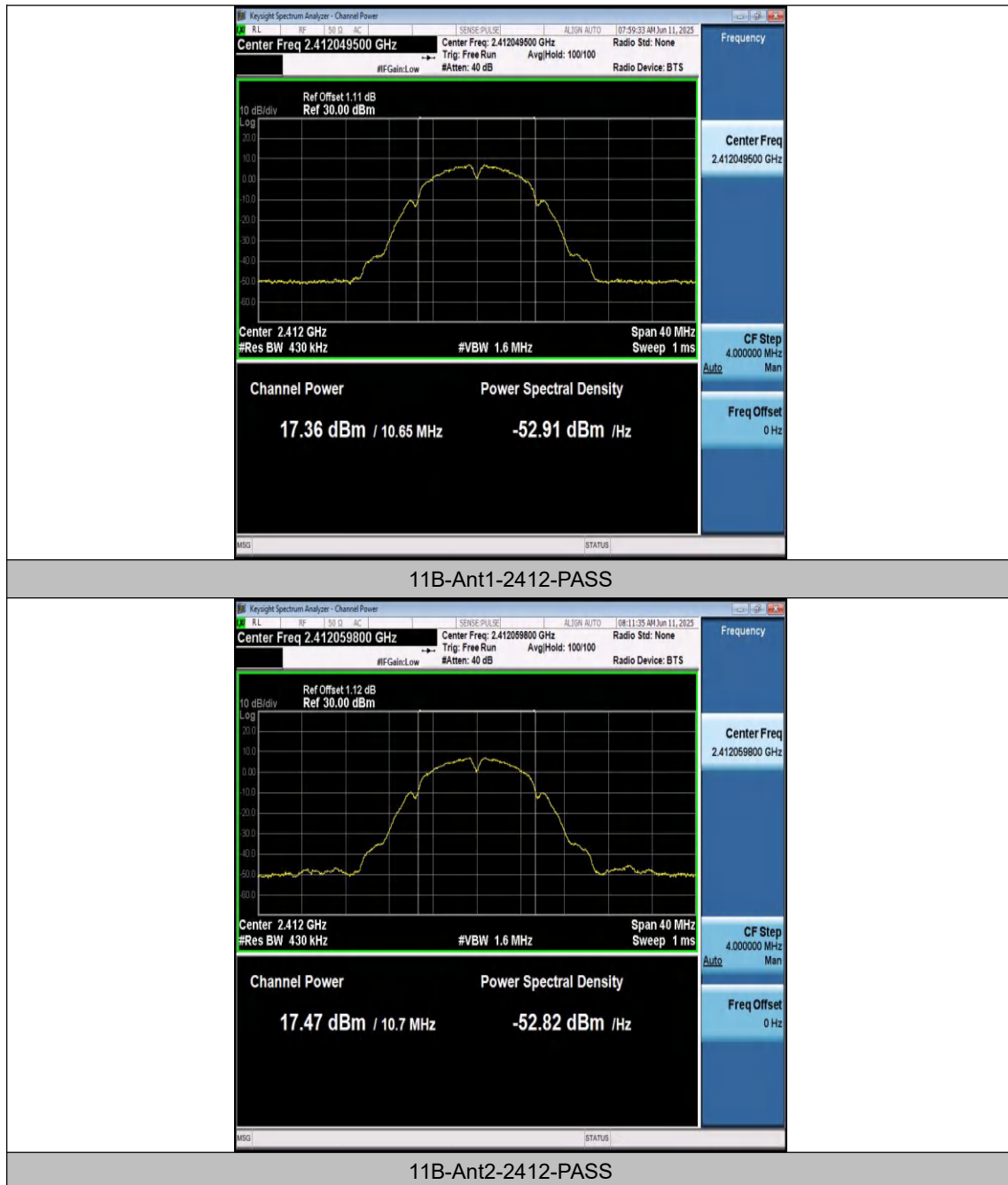
Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.25	97.59	0.11	17.36	≤30.00	PASS
11B	Ant2	2412	17.35	97.24	0.12	17.47	≤30.00	PASS
11B	Ant1	2437	16.80	97.24	0.12	16.92	≤30.00	PASS
11B	Ant2	2437	17.30	97.13	0.13	17.43	≤30.00	PASS
11B	Ant1	2462	17.23	97.26	0.12	17.35	≤30.00	PASS
11B	Ant2	2462	17.24	97.24	0.12	17.36	≤30.00	PASS
11G	Ant1	2412	16.08	97.56	0.11	16.19	≤30.00	PASS
11G	Ant2	2412	16.63	97.56	0.11	16.74	≤30.00	PASS
11G	Ant1	2437	16.02	96.52	0.15	16.17	≤30.00	PASS
11G	Ant2	2437	16.13	97.56	0.11	16.24	≤30.00	PASS
11G	Ant1	2462	15.92	86.83	0.61	16.53	≤30.00	PASS
11G	Ant2	2462	16.64	96.17	0.17	16.81	≤30.00	PASS
11N20MIMO	Ant1	2412	16.75	97.54	0.11	16.86	≤30.00	PASS
11N20MIMO	Ant2	2412	17.45	97.56	0.11	17.56	≤30.00	PASS
11N20MIMO	total	2412	---	---	---	20.23	≤29.16	PASS
11N20MIMO	Ant1	2437	16.45	96.17	0.17	16.62	≤30.00	PASS
11N20MIMO	Ant2	2437	17.32	96.17	0.17	17.49	≤30.00	PASS
11N20MIMO	total	2437	---	---	---	20.09	≤29.16	PASS
11N20MIMO	Ant1	2462	16.46	97.56	0.11	16.57	≤30.00	PASS
11N20MIMO	Ant2	2462	17.33	97.53	0.11	17.44	≤30.00	PASS
11N20MIMO	total	2462	---	---	---	20.04	≤29.16	PASS
11AX20MIMO	Ant1	2412	15.93	96.60	0.15	16.08	≤30.00	PASS
11AX20MIMO	Ant2	2412	16.50	96.60	0.15	16.65	≤30.00	PASS
11AX20MIMO	total	2412	---	---	---	19.38	≤29.16	PASS
11AX20MIMO	Ant1	2437	15.88	95.15	0.22	16.10	≤30.00	PASS
11AX20MIMO	Ant2	2437	16.74	94.69	0.24	16.98	≤30.00	PASS
11AX20MIMO	total	2437	---	---	---	19.57	≤29.16	PASS
11AX20MIMO	Ant1	2462	16.23	96.60	0.15	16.38	≤30.00	PASS
11AX20MIMO	Ant2	2462	16.63	96.60	0.15	16.78	≤30.00	PASS
11AX20MIMO	total	2462	---	---	---	19.59	≤29.16	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=6.84>6dBi,
so limit=30-(6.84-6.00)=29.16dBm.

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

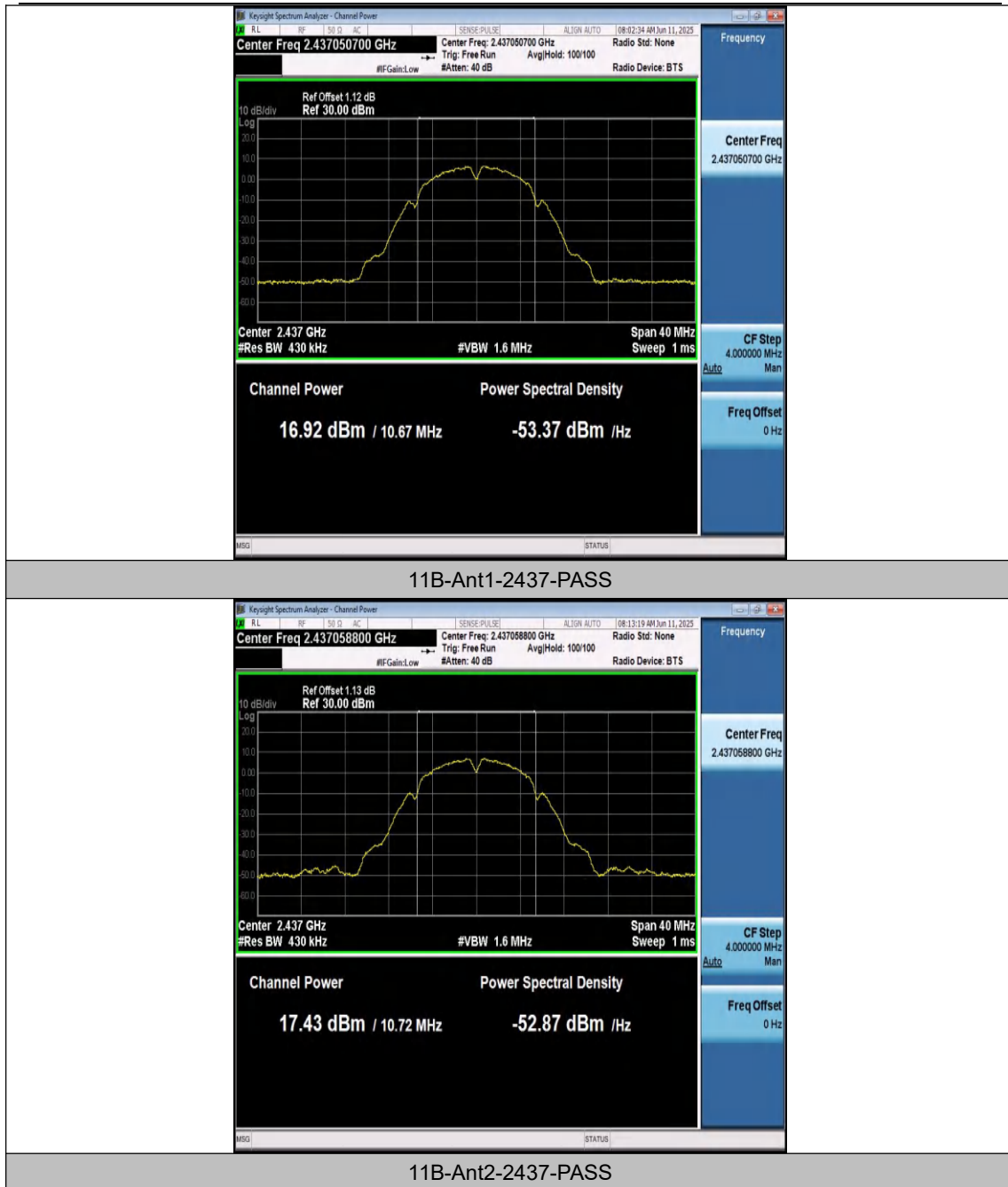
Test Graphs Average

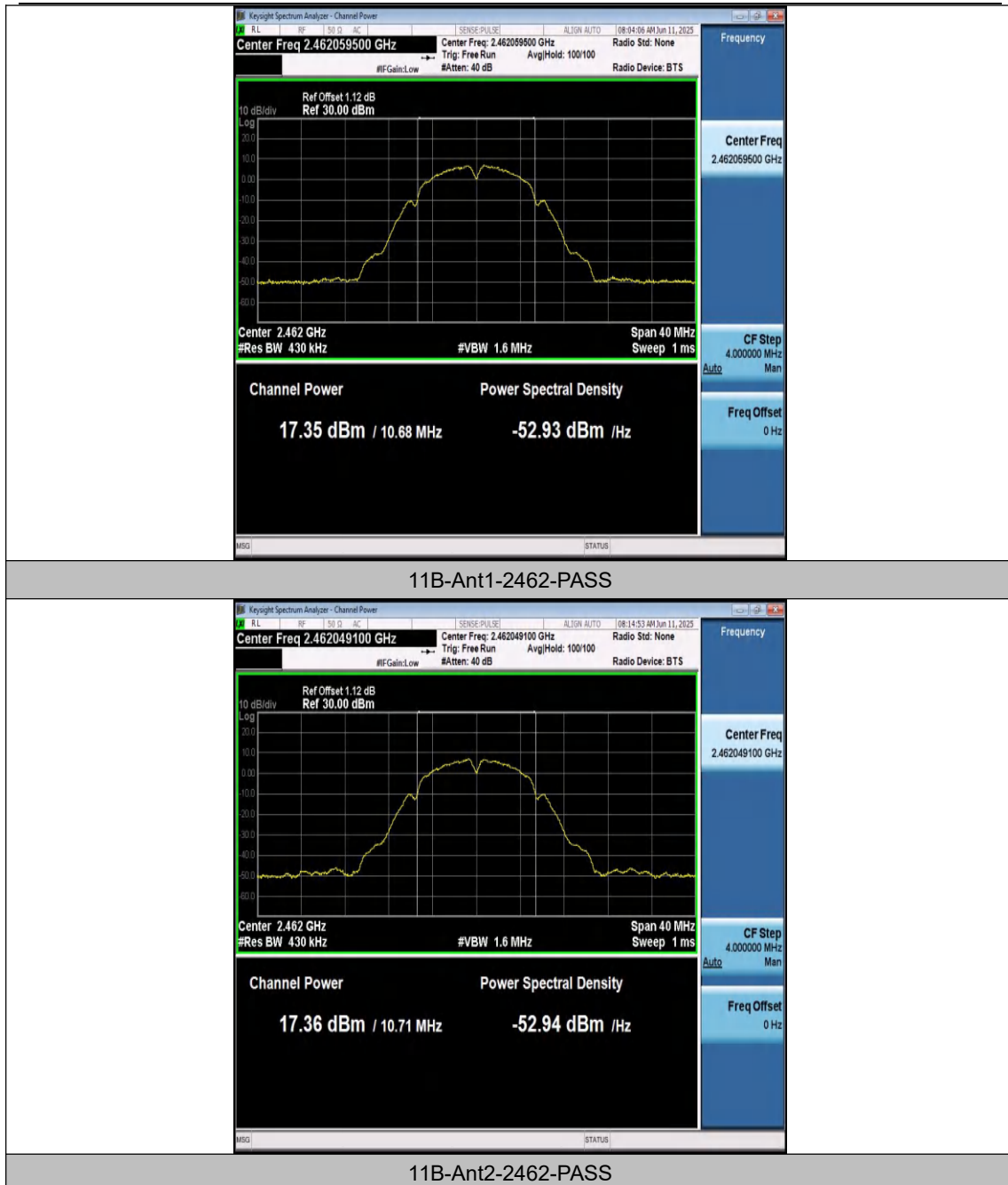


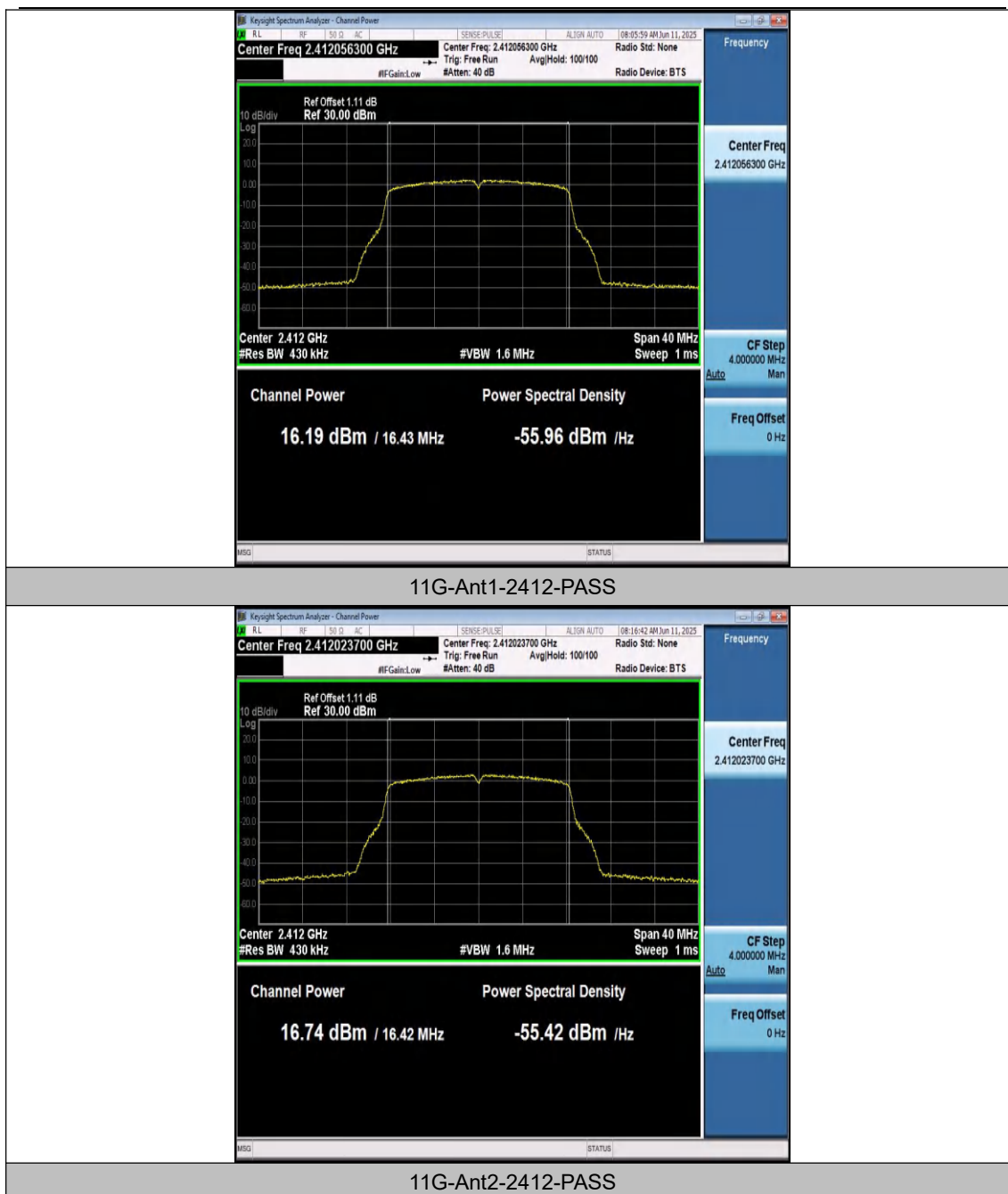
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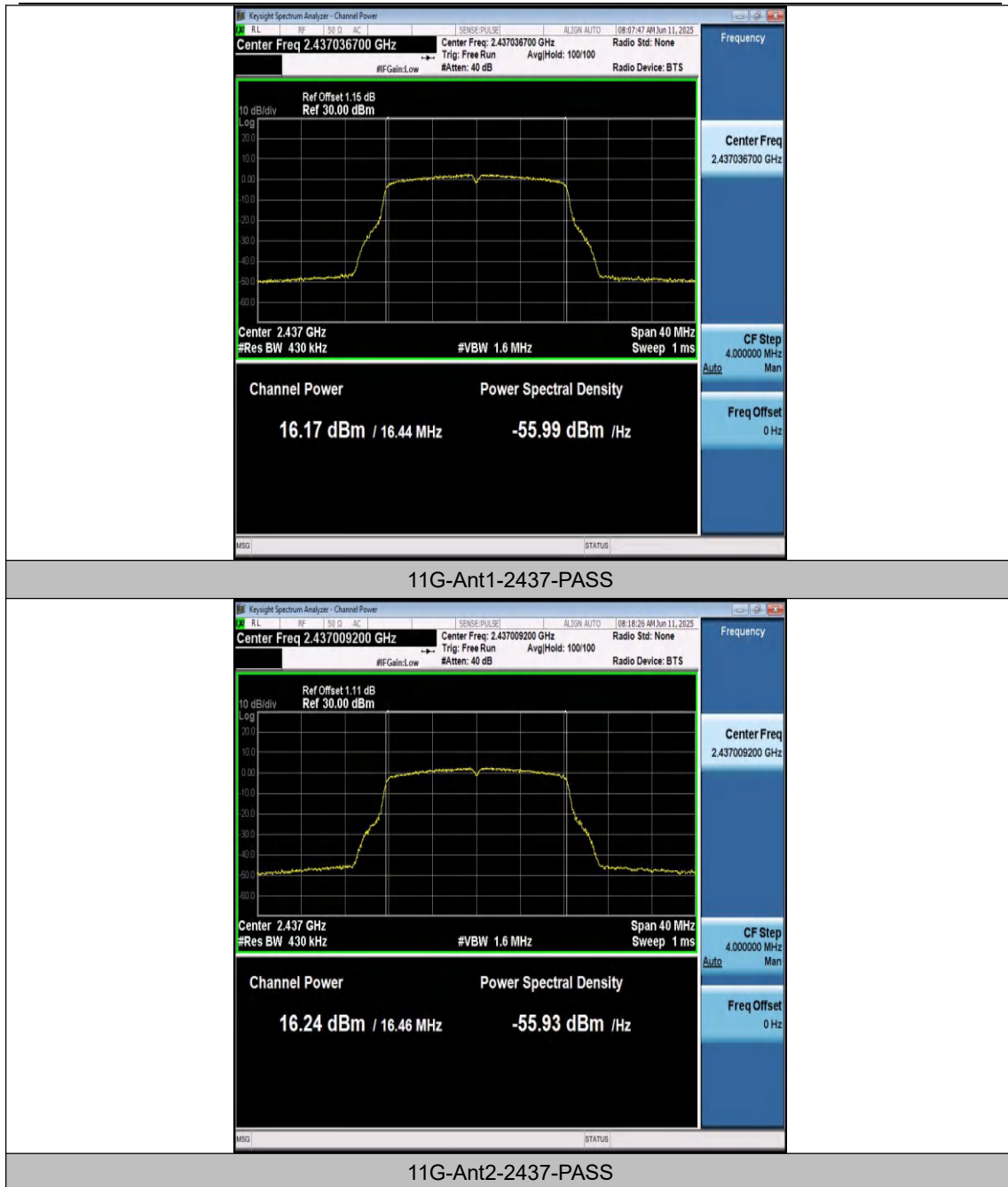
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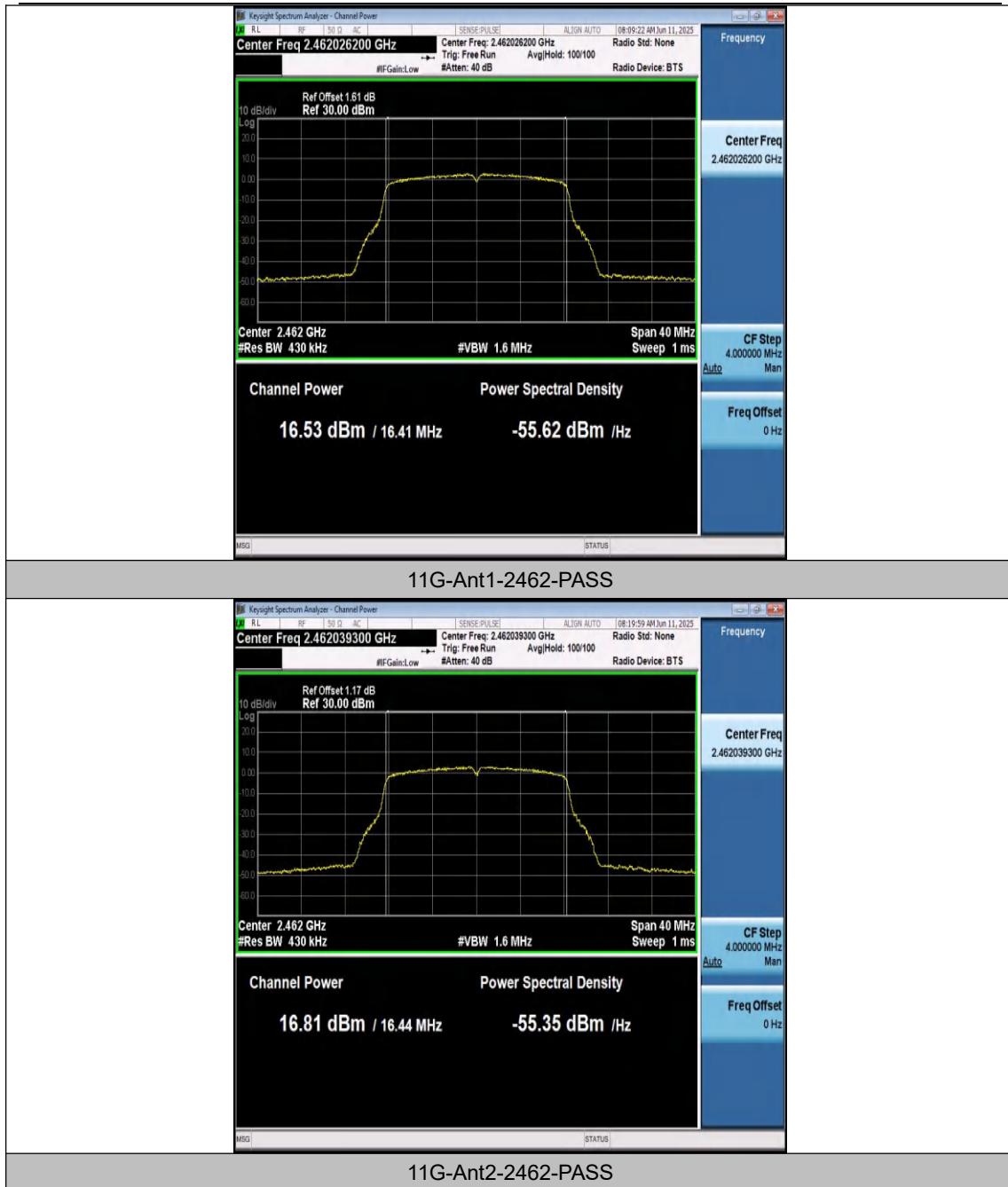




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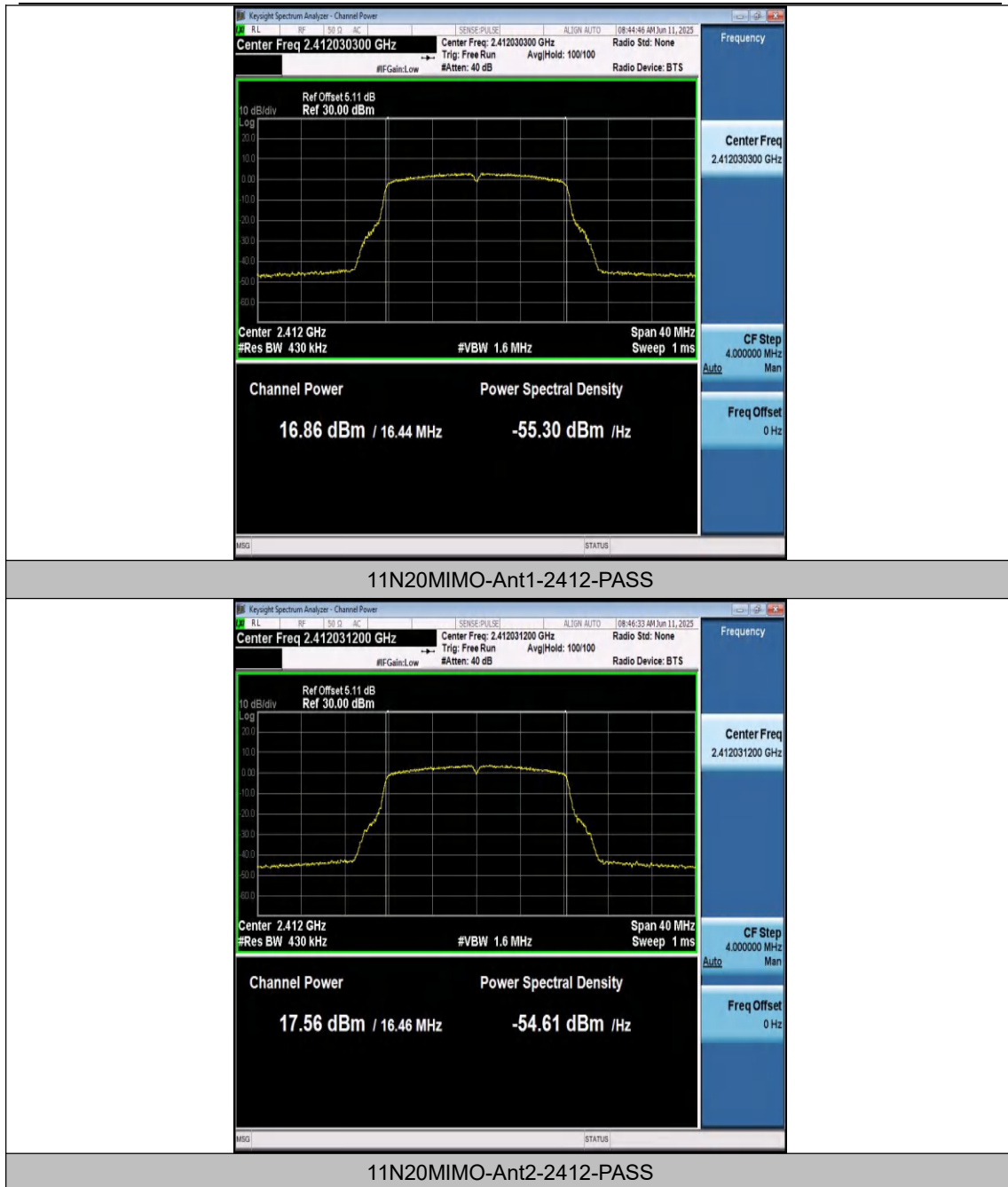
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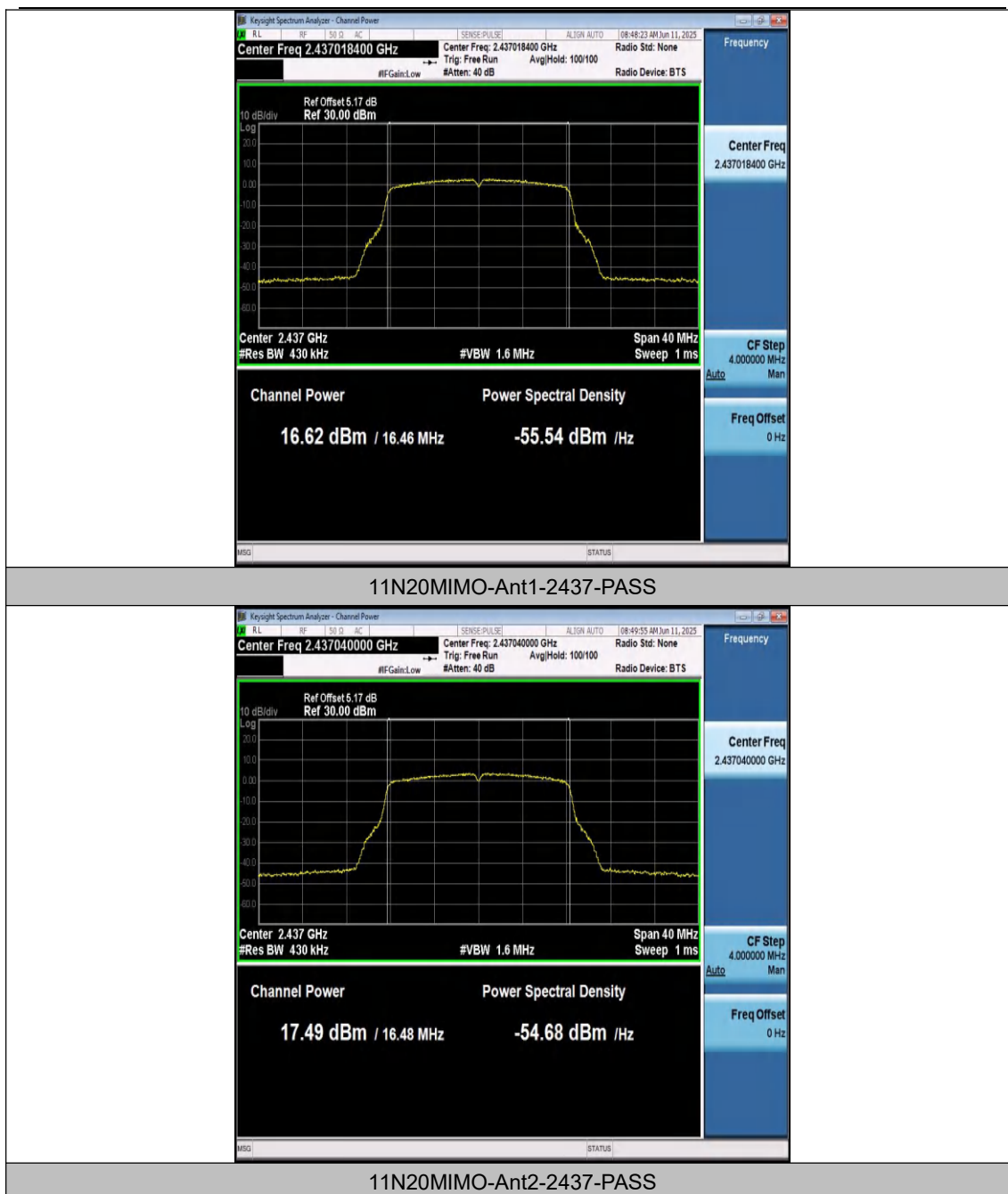
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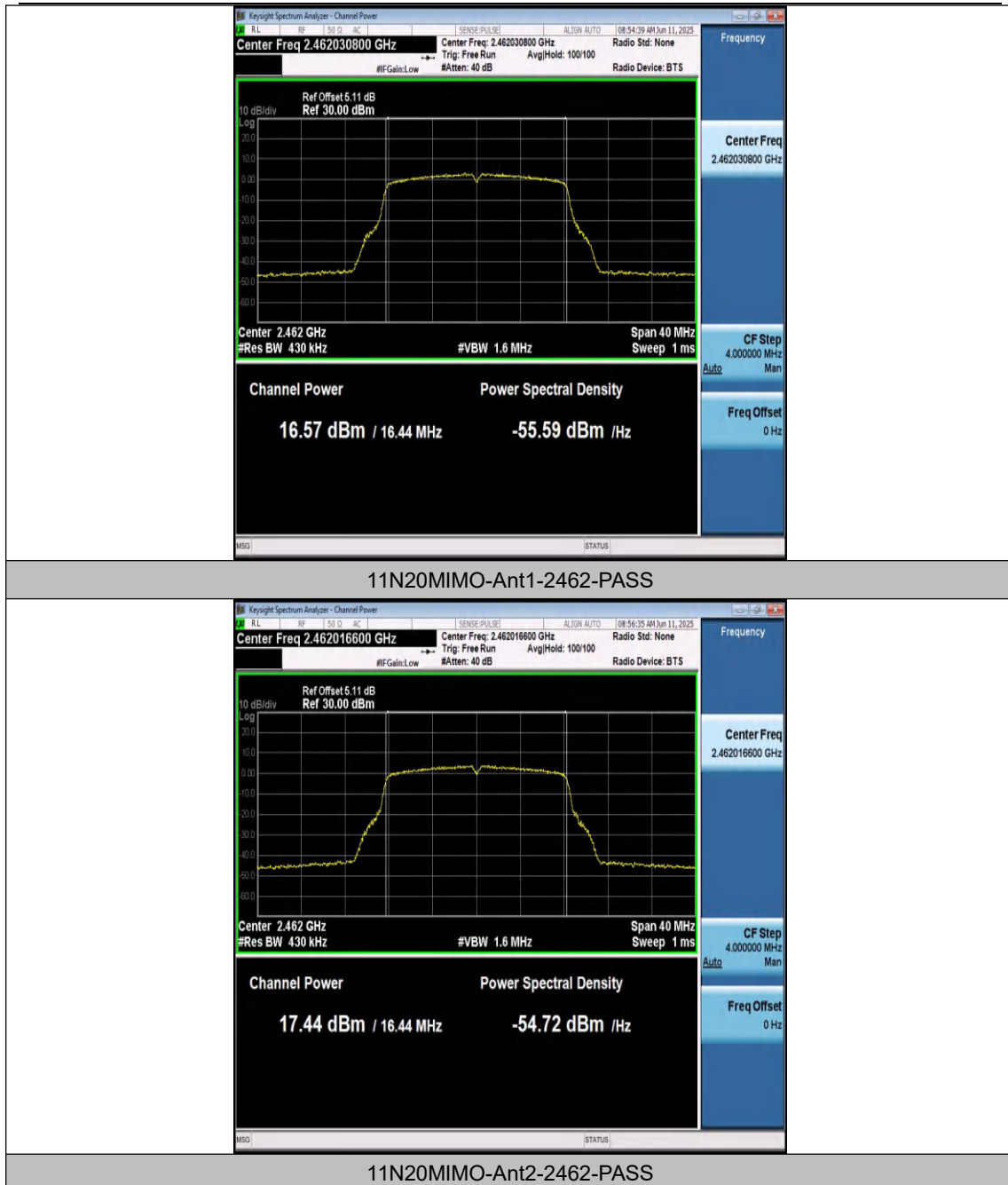


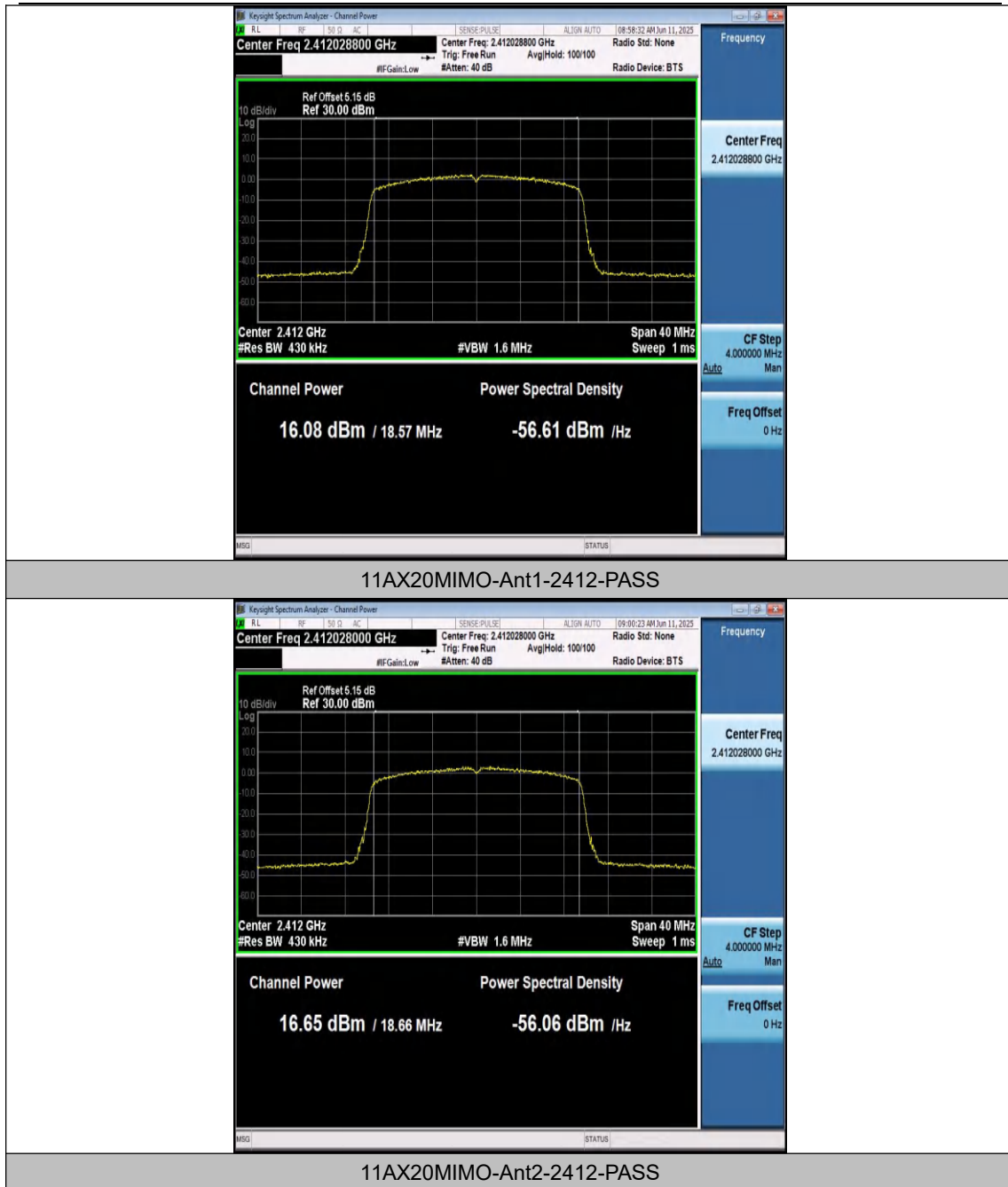
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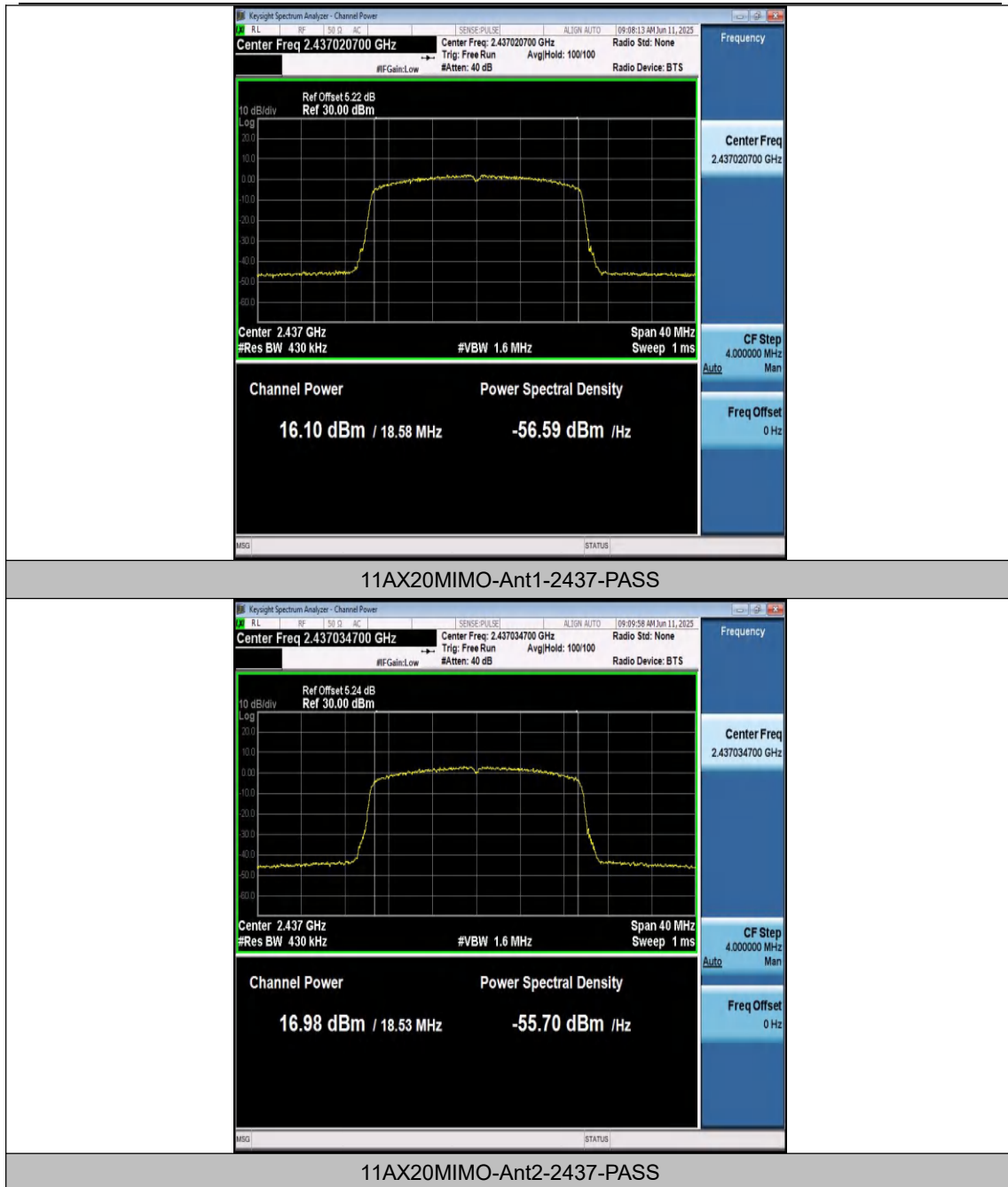
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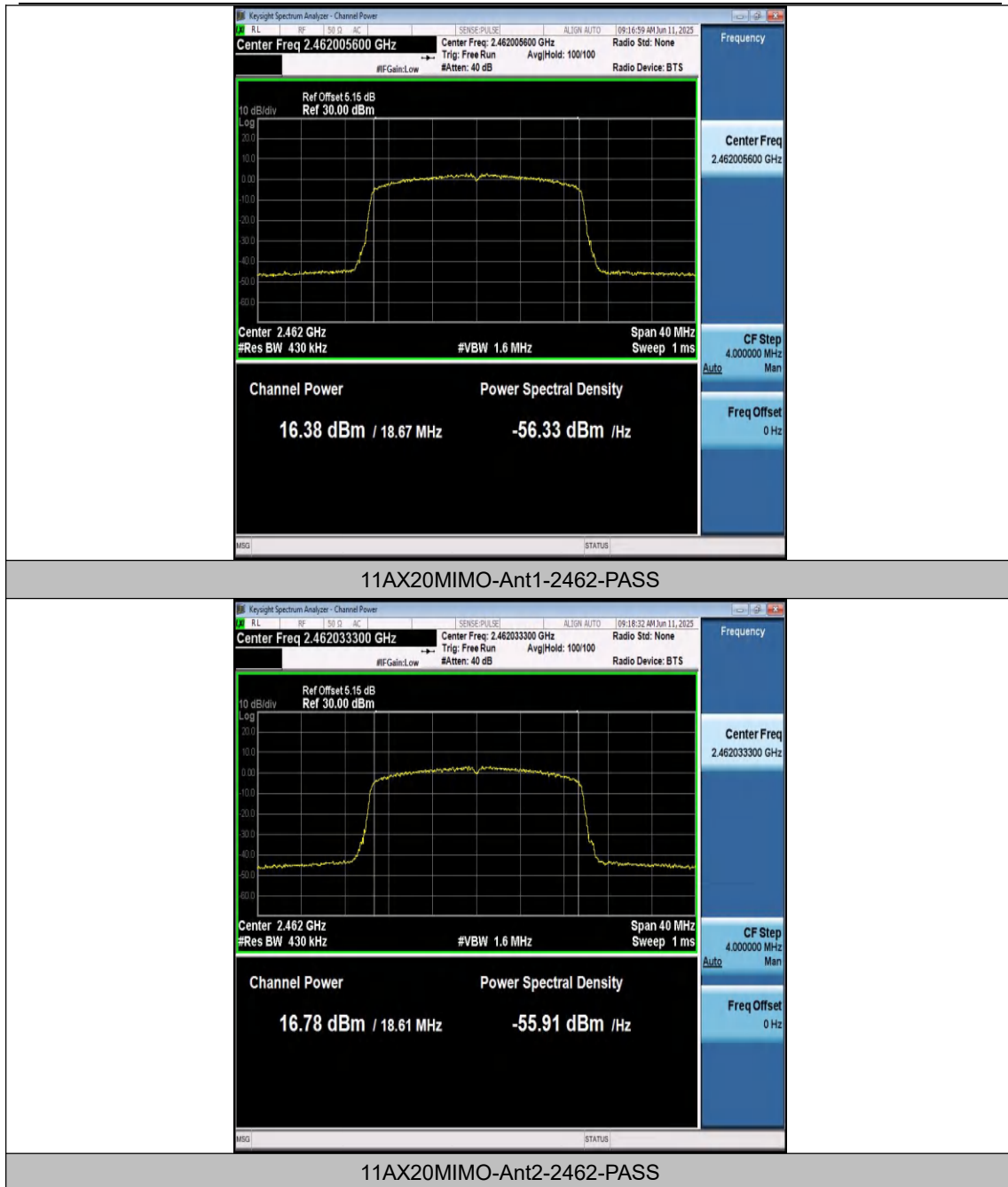
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Appendix D: Maximum power spectral density

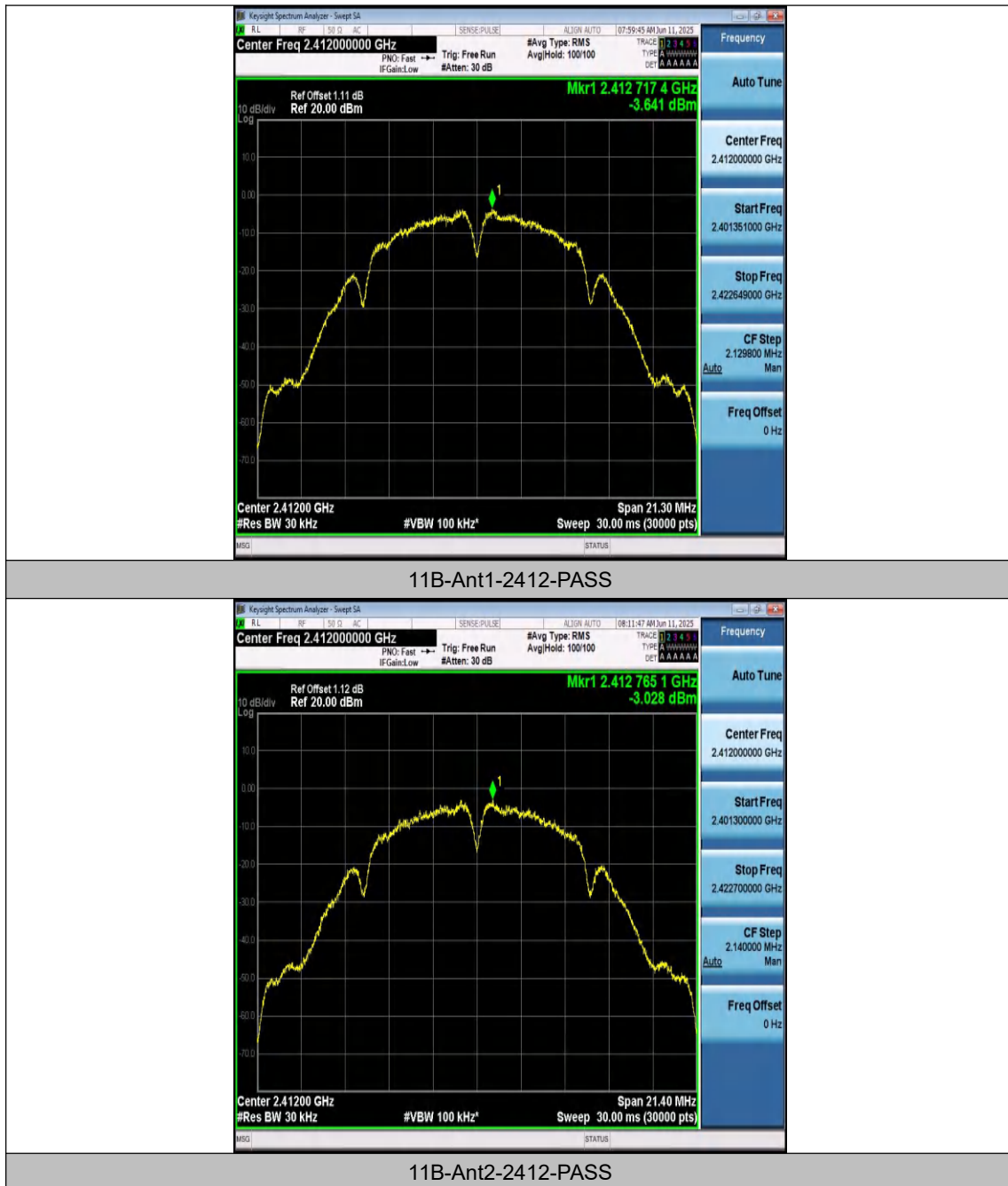
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-3.64	-13.64	≤8.00	PASS
11B	Ant2	2412	-3.03	-13.03	≤8.00	PASS
11B	Ant1	2437	-3.89	-13.89	≤8.00	PASS
11B	Ant2	2437	-3.49	-13.49	≤8.00	PASS
11B	Ant1	2462	-3.58	-13.58	≤8.00	PASS
11B	Ant2	2462	-3.16	-13.16	≤8.00	PASS
11G	Ant1	2412	-7.22	-17.22	≤8.00	PASS
11G	Ant2	2412	-6.56	-16.56	≤8.00	PASS
11G	Ant1	2437	-7.30	-17.3	≤8.00	PASS
11G	Ant2	2437	-6.84	-16.84	≤8.00	PASS
11G	Ant1	2462	-6.66	-16.66	≤8.00	PASS
11G	Ant2	2462	-6.27	-16.27	≤8.00	PASS
11N20MIMO	Ant1	2412	-5.98	-15.98	≤8.00	PASS
11N20MIMO	Ant2	2412	-6.24	-16.24	≤8.00	PASS
11N20MIMO	total	2412	---	-13.1	≤7.16	PASS
11N20MIMO	Ant1	2437	-6.76	-16.76	≤8.00	PASS
11N20MIMO	Ant2	2437	-5.57	-15.57	≤8.00	PASS
11N20MIMO	total	2437	---	-13.11	≤7.16	PASS
11N20MIMO	Ant1	2462	-6.66	-16.66	≤8.00	PASS
11N20MIMO	Ant2	2462	-5.96	-15.96	≤8.00	PASS
11N20MIMO	total	2462	---	-13.29	≤7.16	PASS
11AX20MIMO	Ant1	2412	-8.32	-18.32	≤8.00	PASS
11AX20MIMO	Ant2	2412	-7.65	-17.65	≤8.00	PASS
11AX20MIMO	total	2412	---	-14.96	≤7.16	PASS
11AX20MIMO	Ant1	2437	-8.35	-18.35	≤8.00	PASS
11AX20MIMO	Ant2	2437	-7.87	-17.87	≤8.00	PASS
11AX20MIMO	total	2437	---	-15.09	≤7.16	PASS
11AX20MIMO	Ant1	2462	-8.36	-18.36	≤8.00	PASS
11AX20MIMO	Ant2	2462	-7.57	-17.57	≤8.00	PASS
11AX20MIMO	total	2462	---	-14.94	≤7.16	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$
3. As Directional gain = $10 \log[(10G1/20 + 10G2/20)^2 / NANT]$ dBi=6.84>6dBi,
so limit=8-(6.84-6.00)=7.16dBm/3kHz.
4. MIMO= $10 \cdot \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

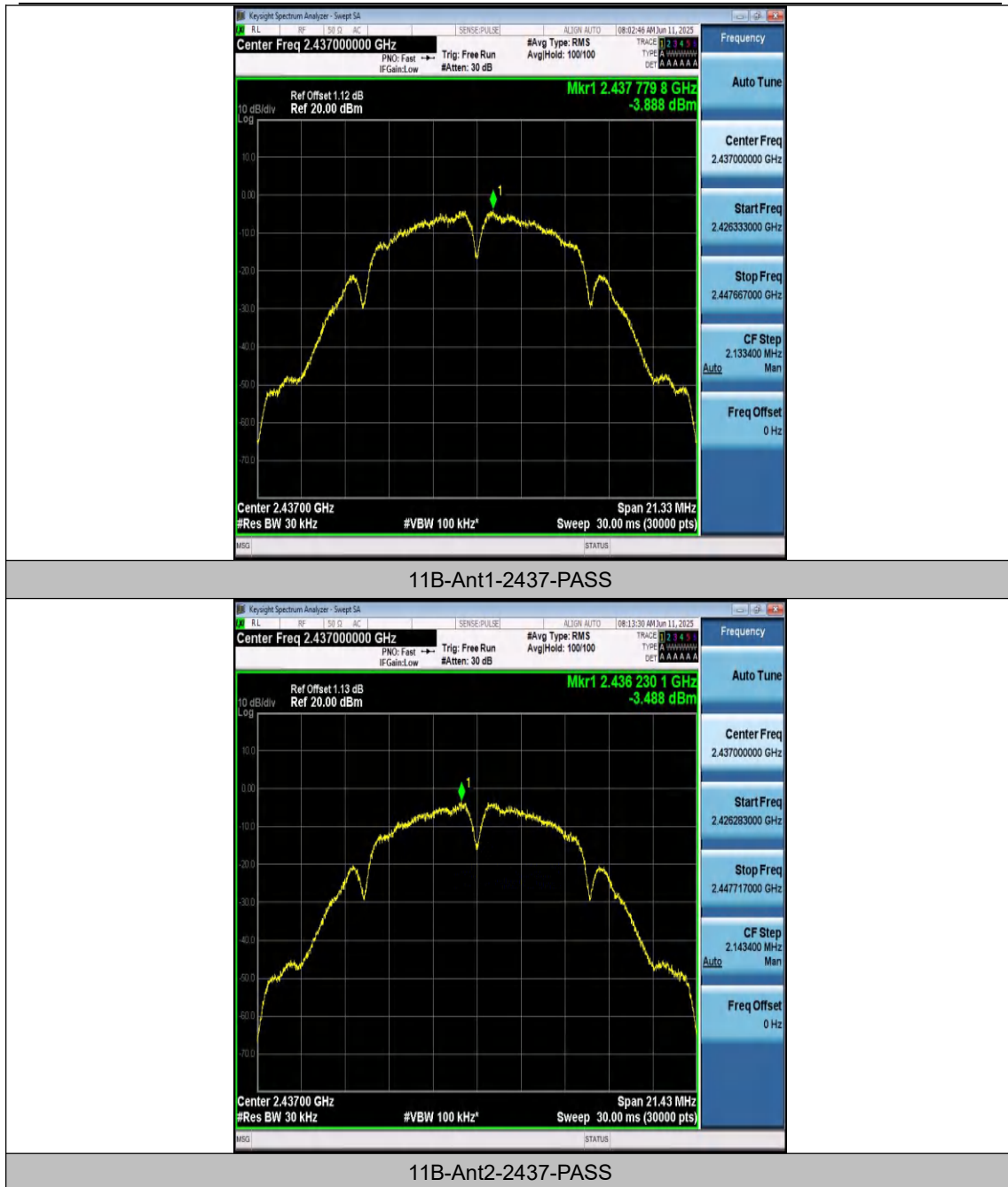
Test Graphs



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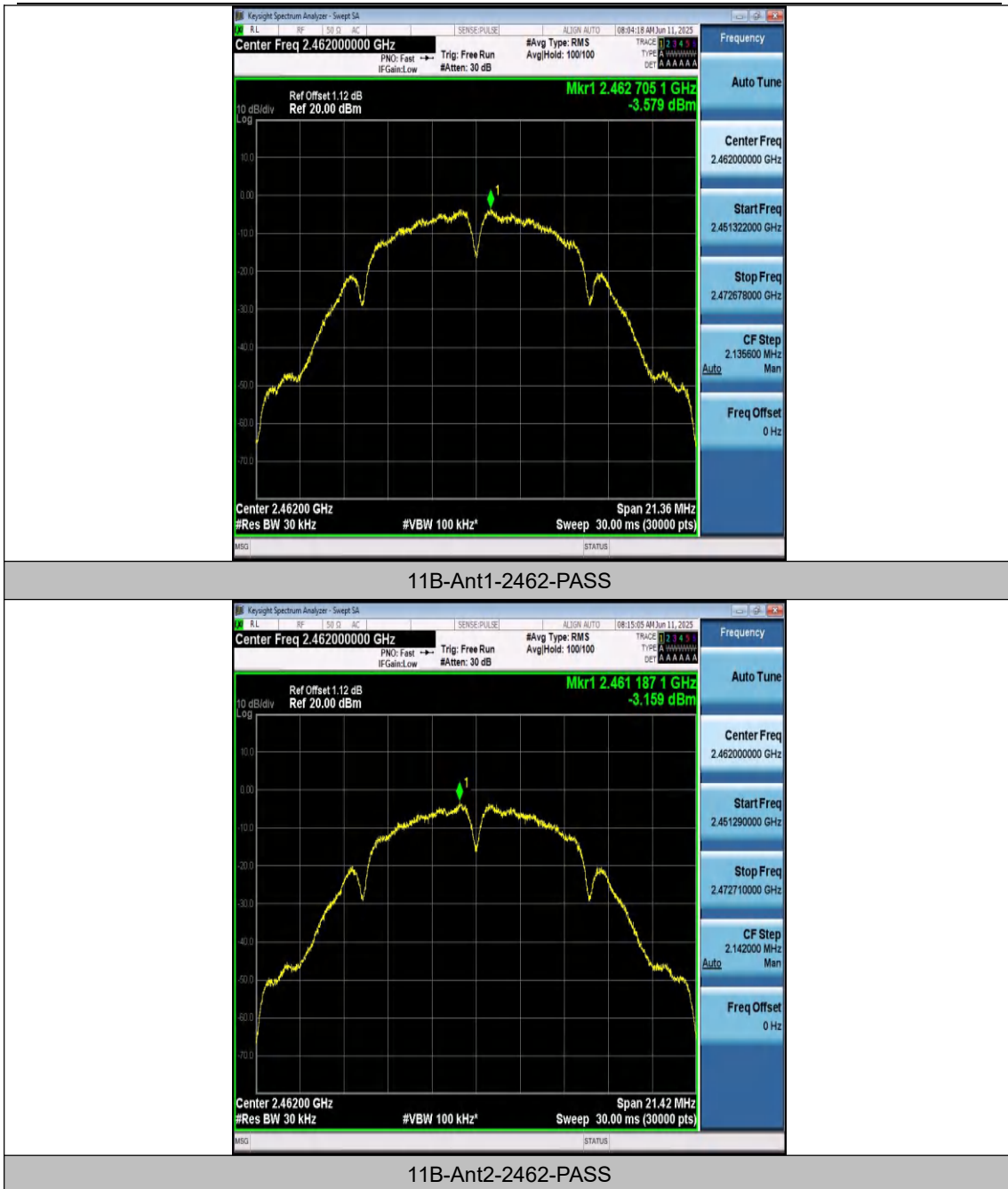
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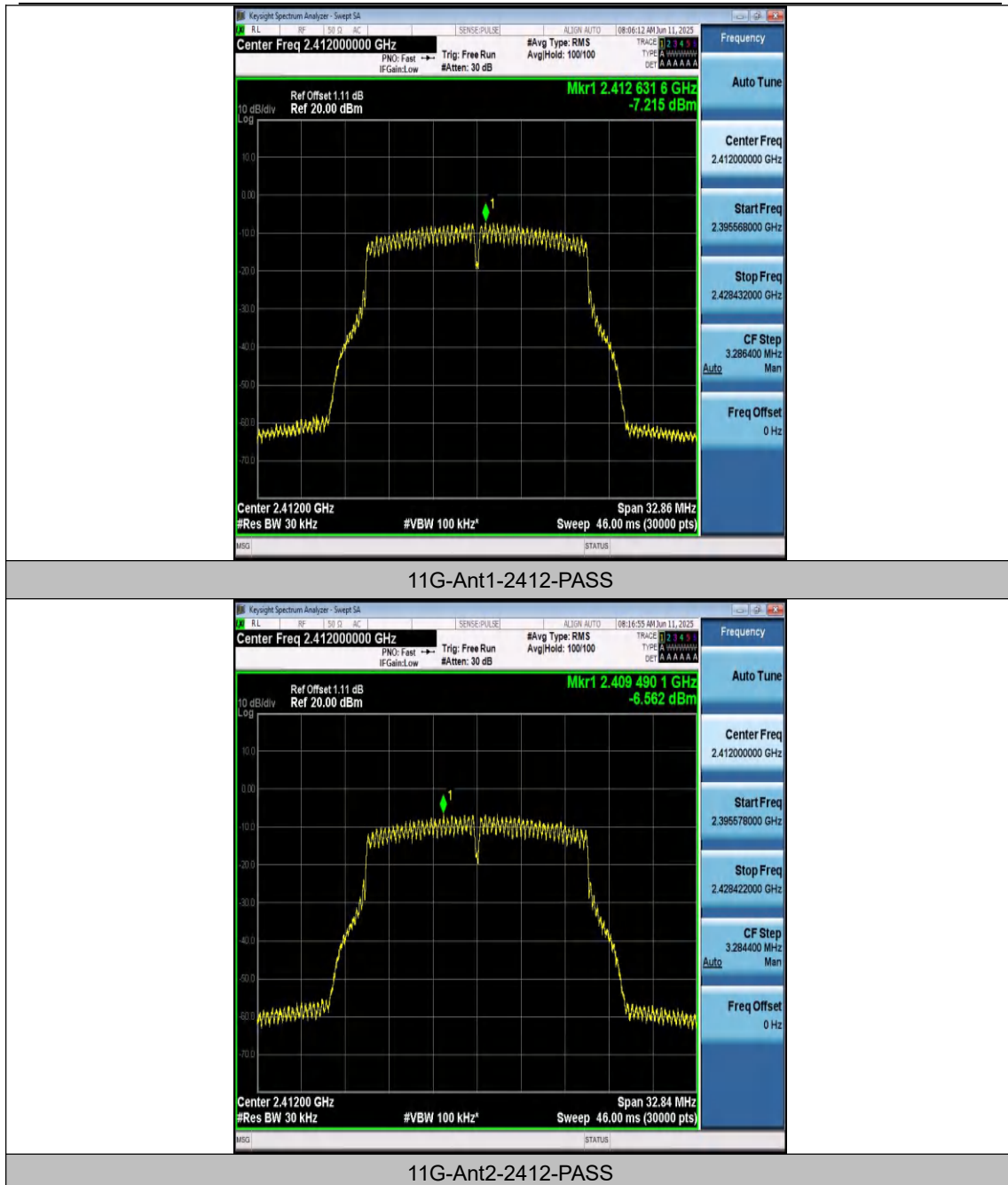


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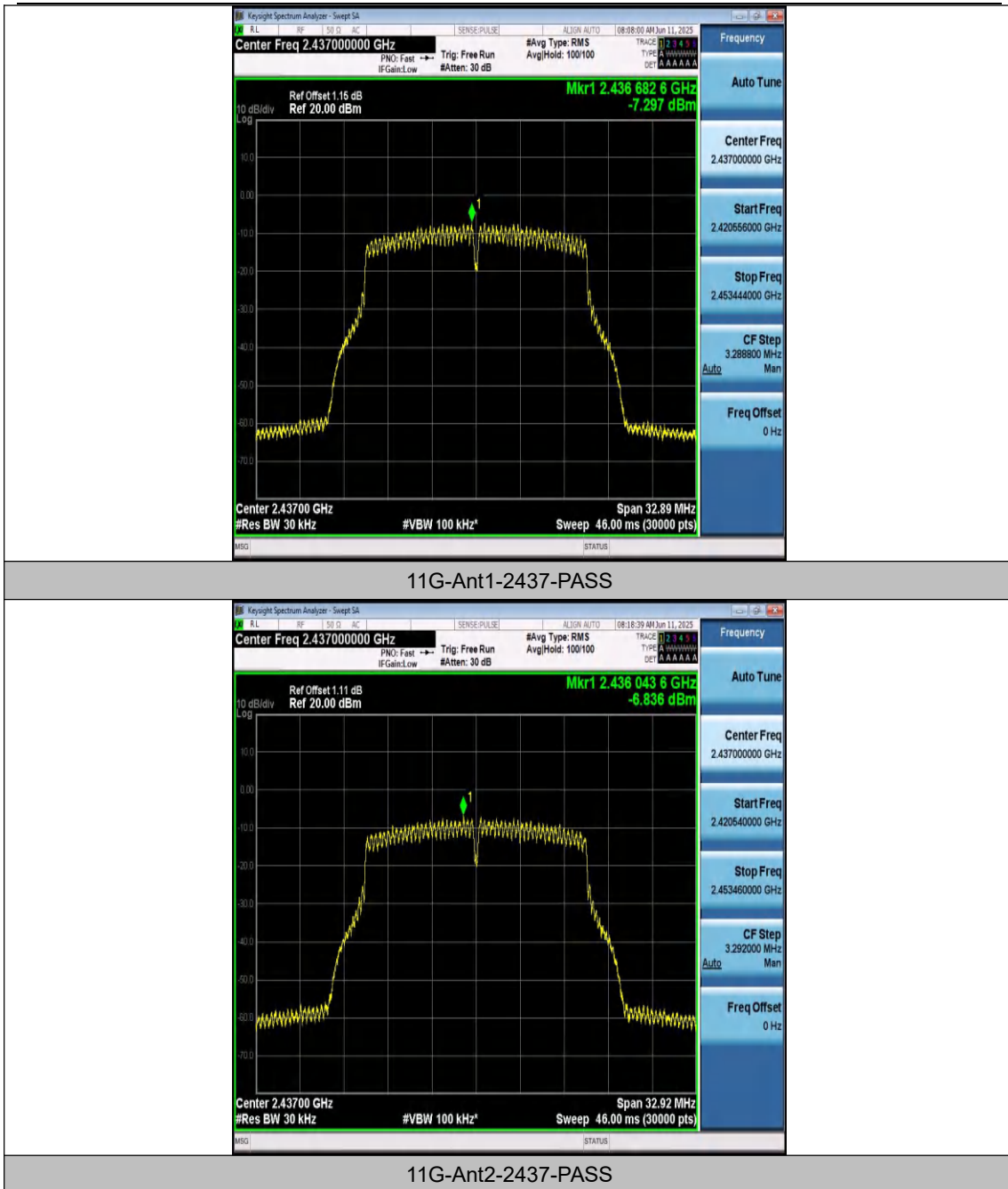
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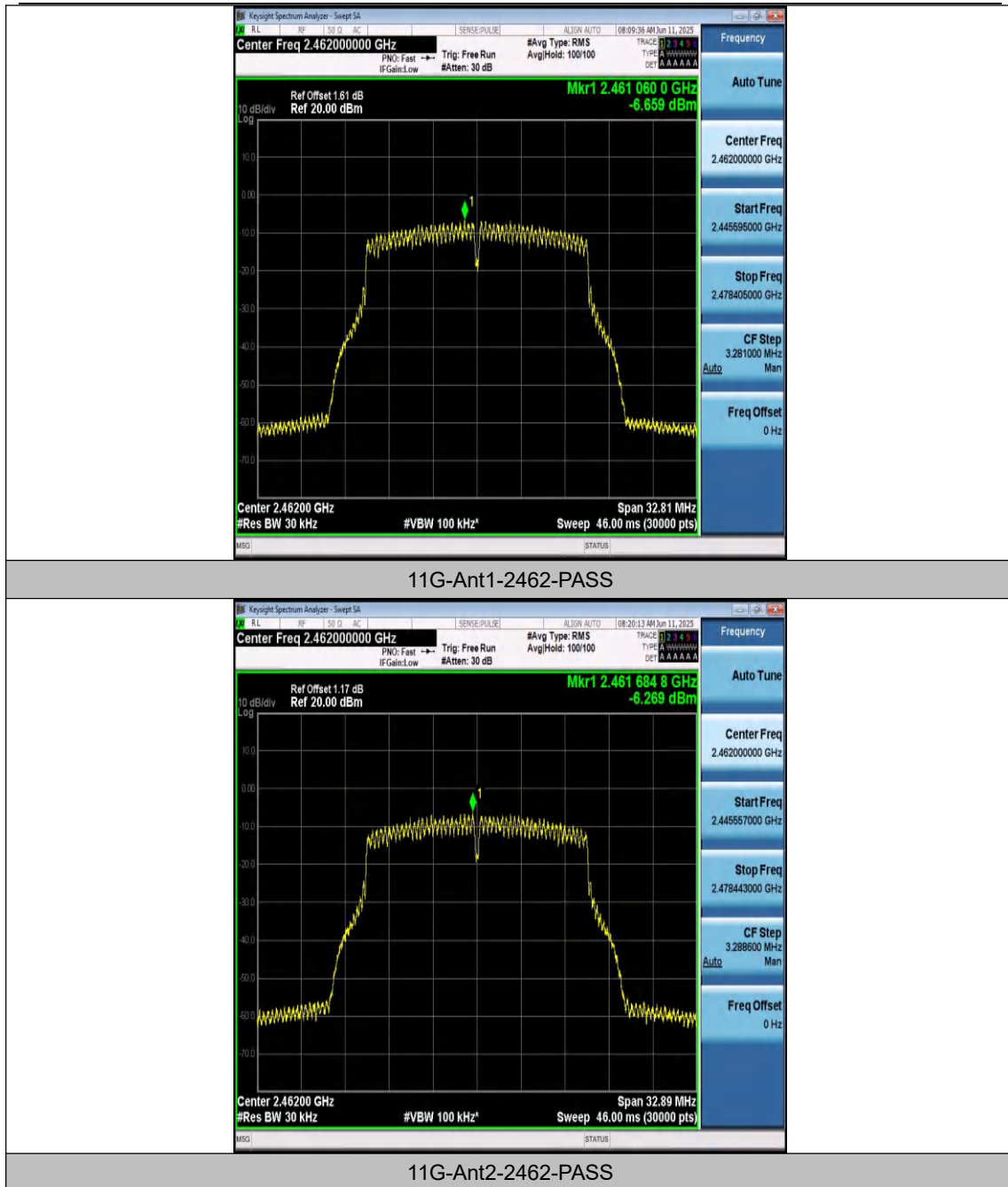


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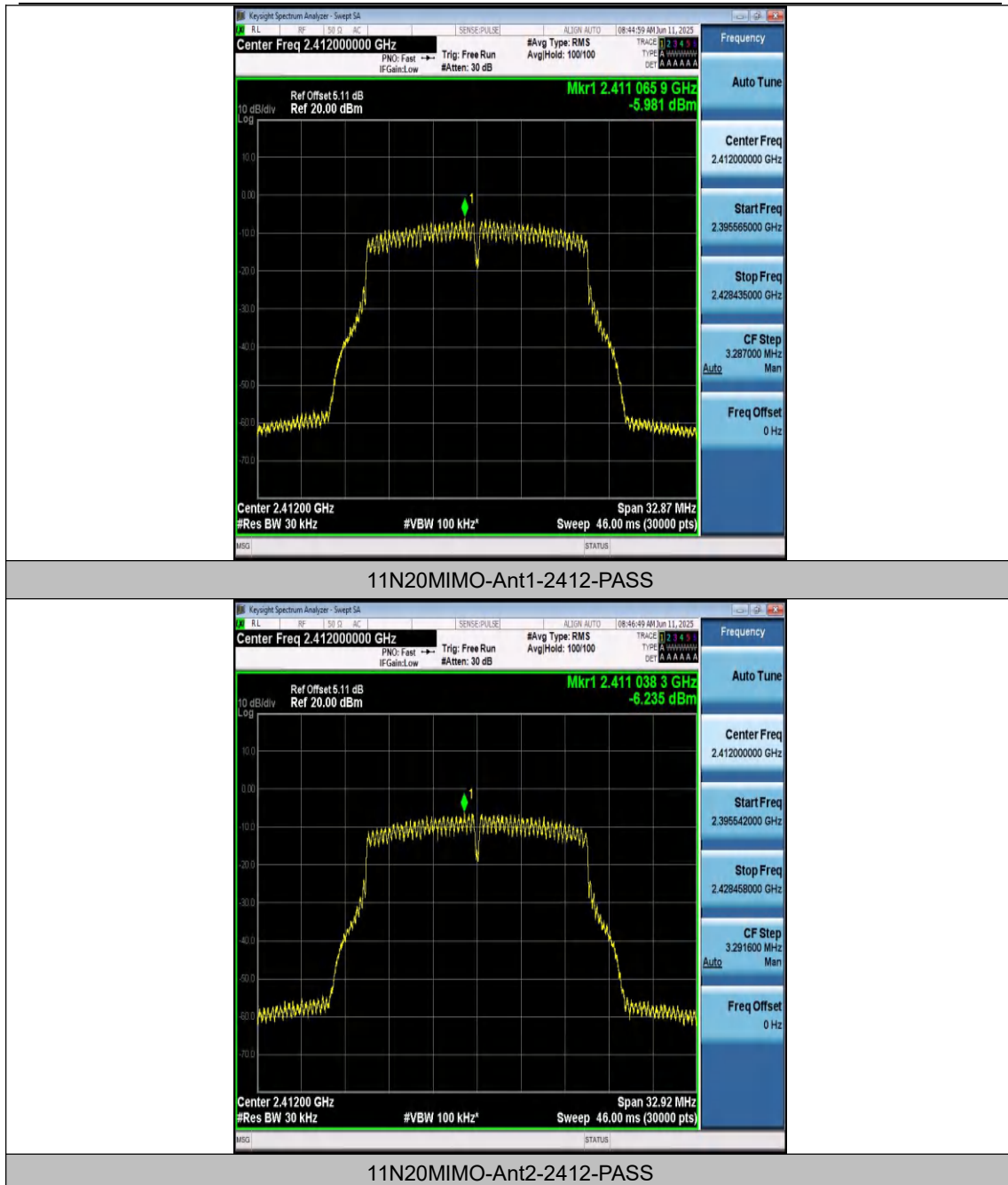
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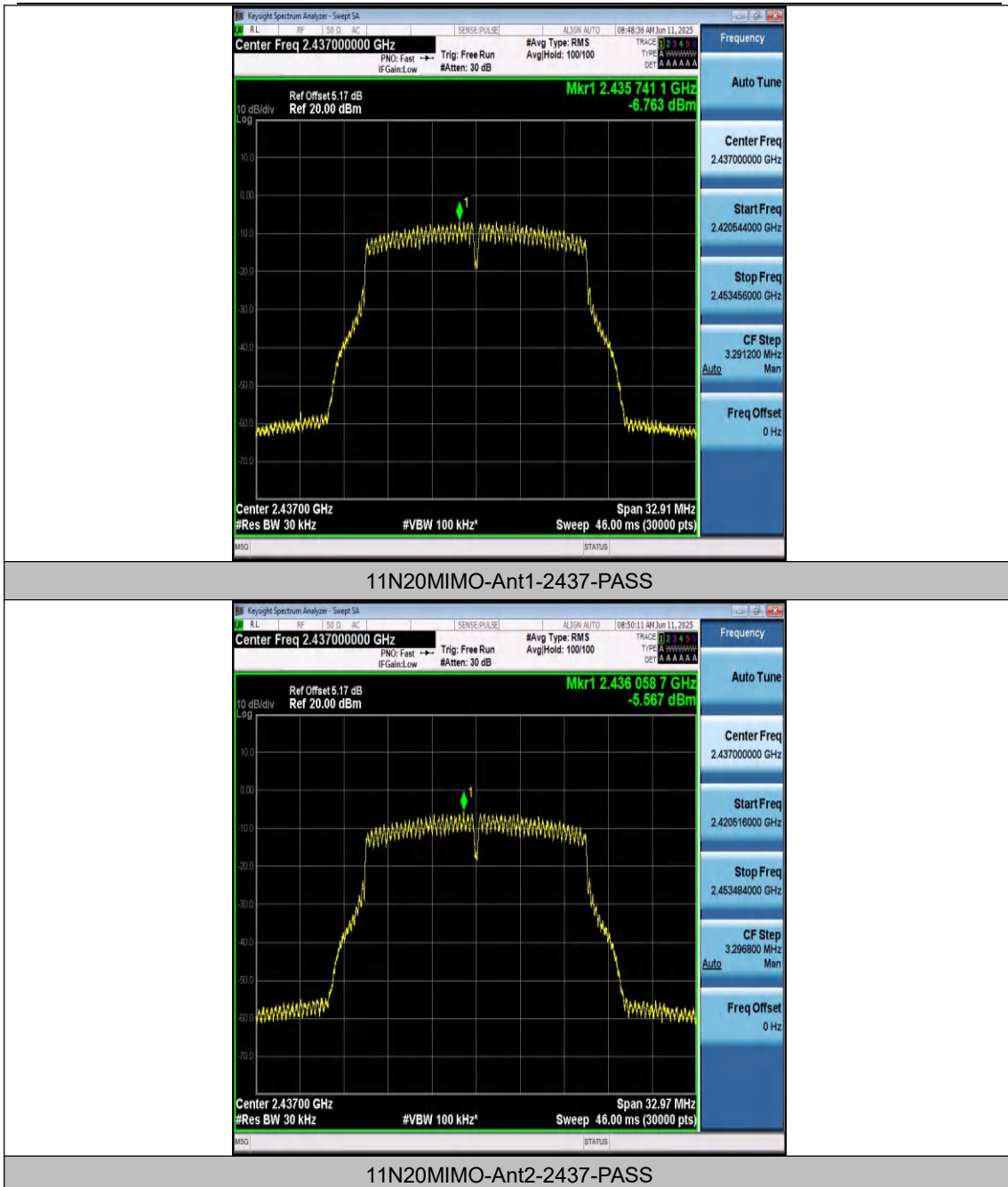
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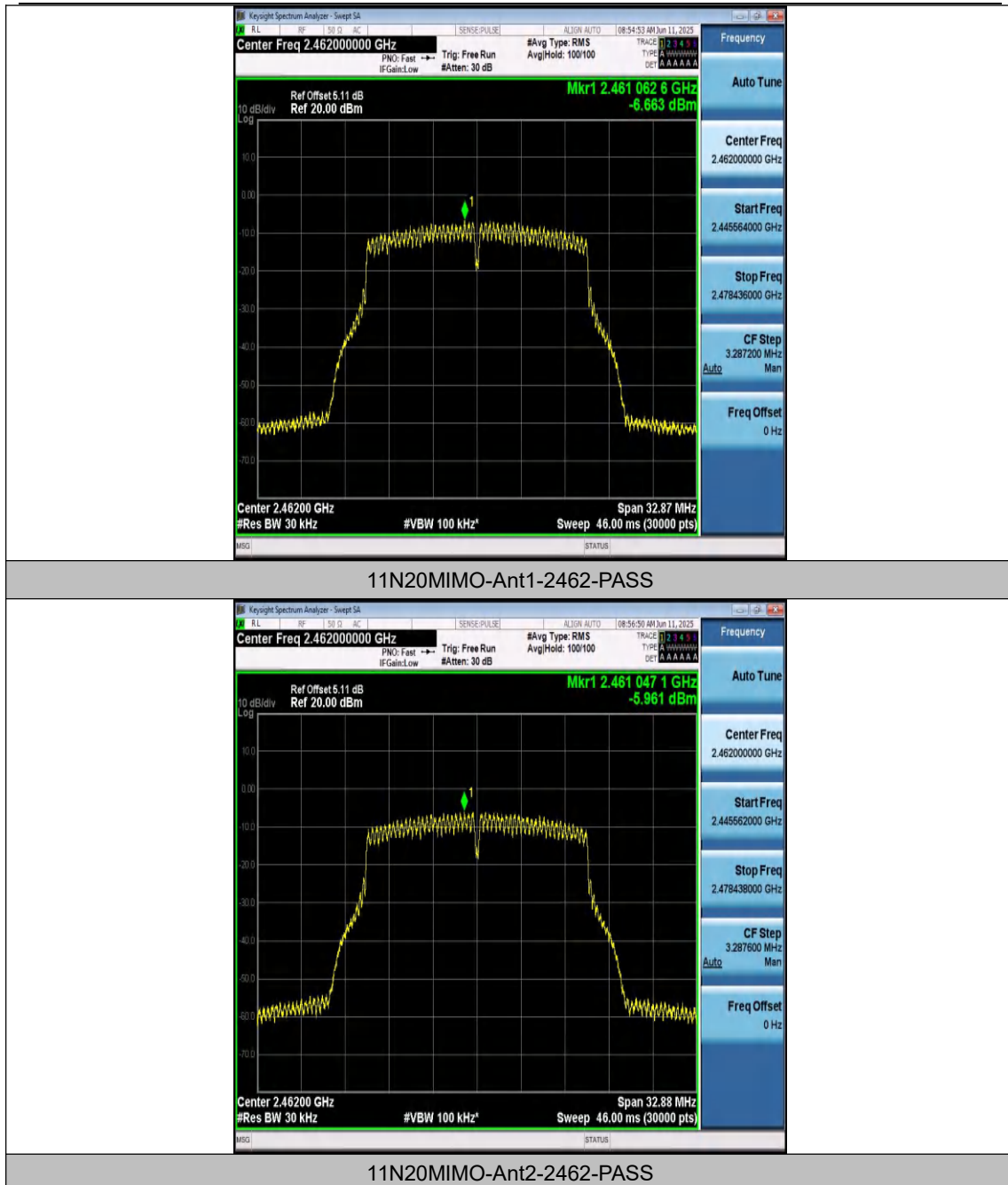
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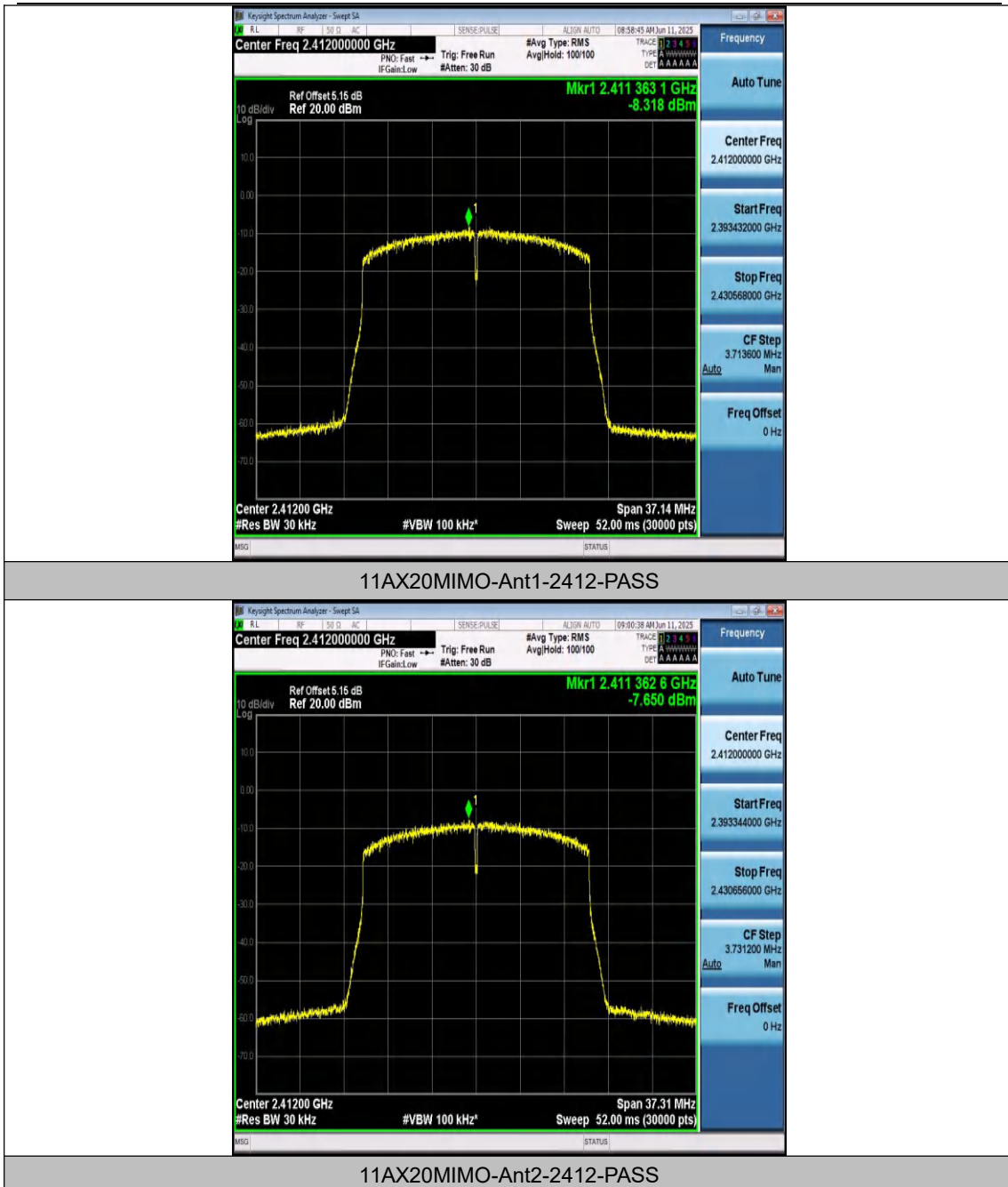
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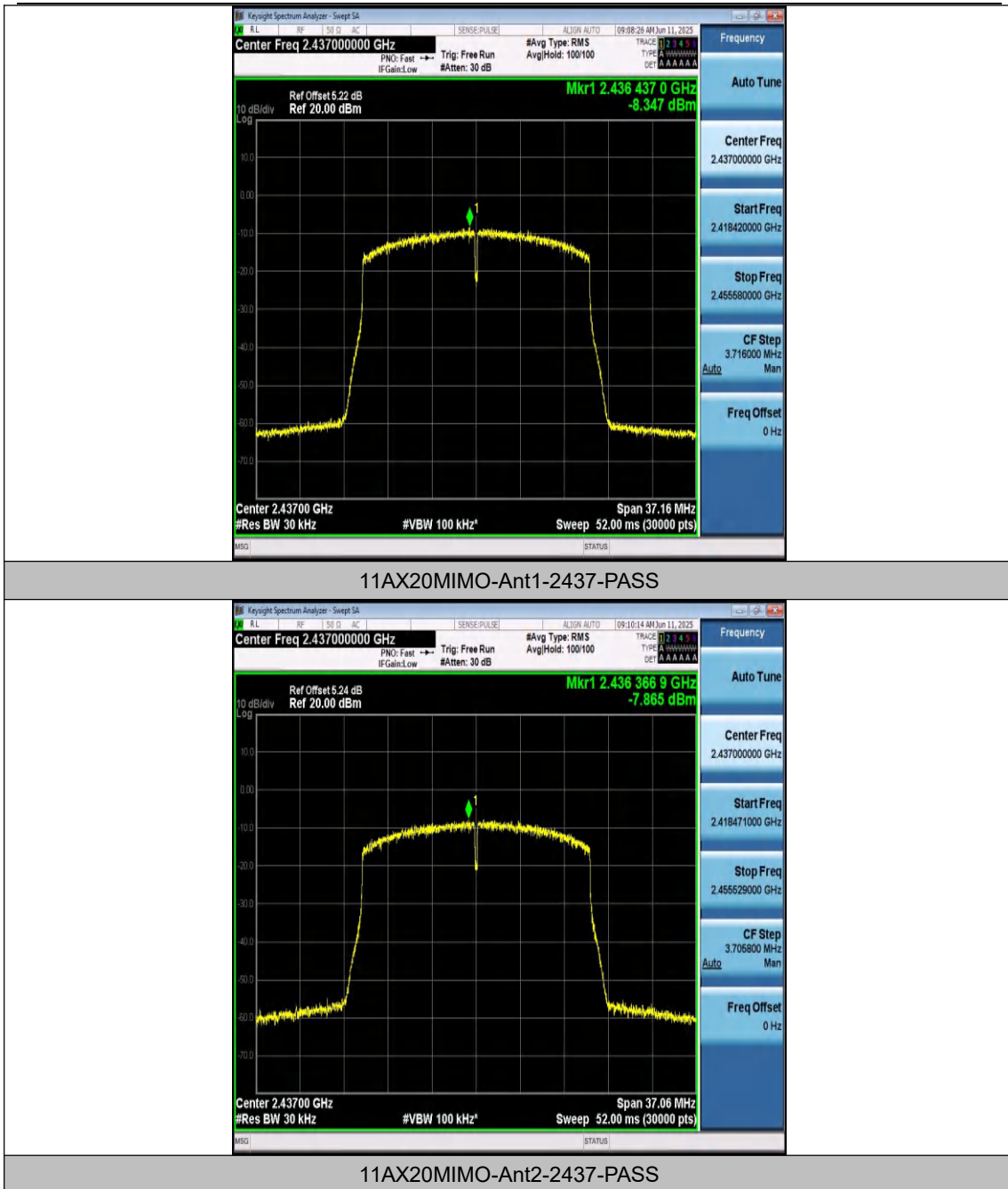
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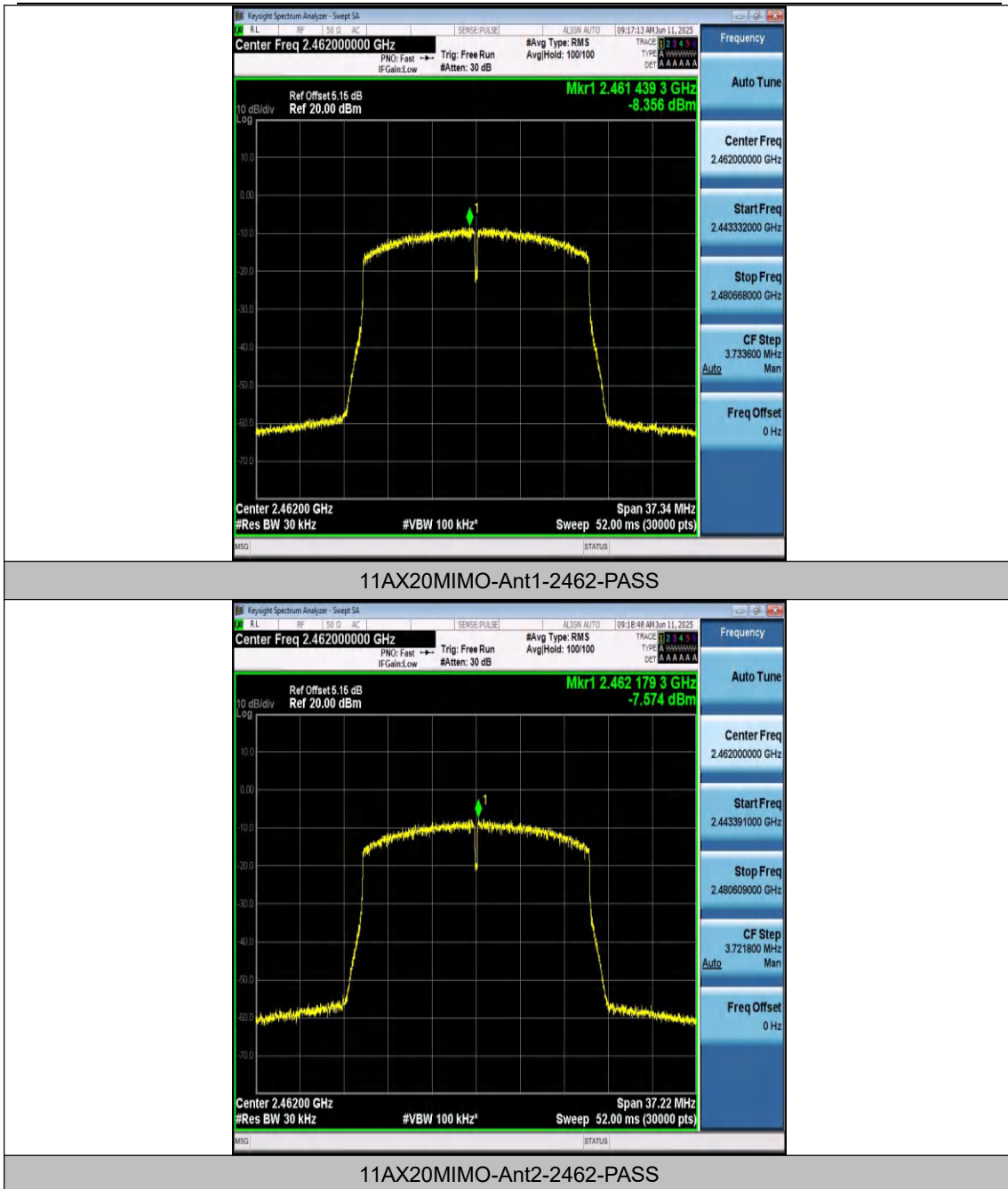
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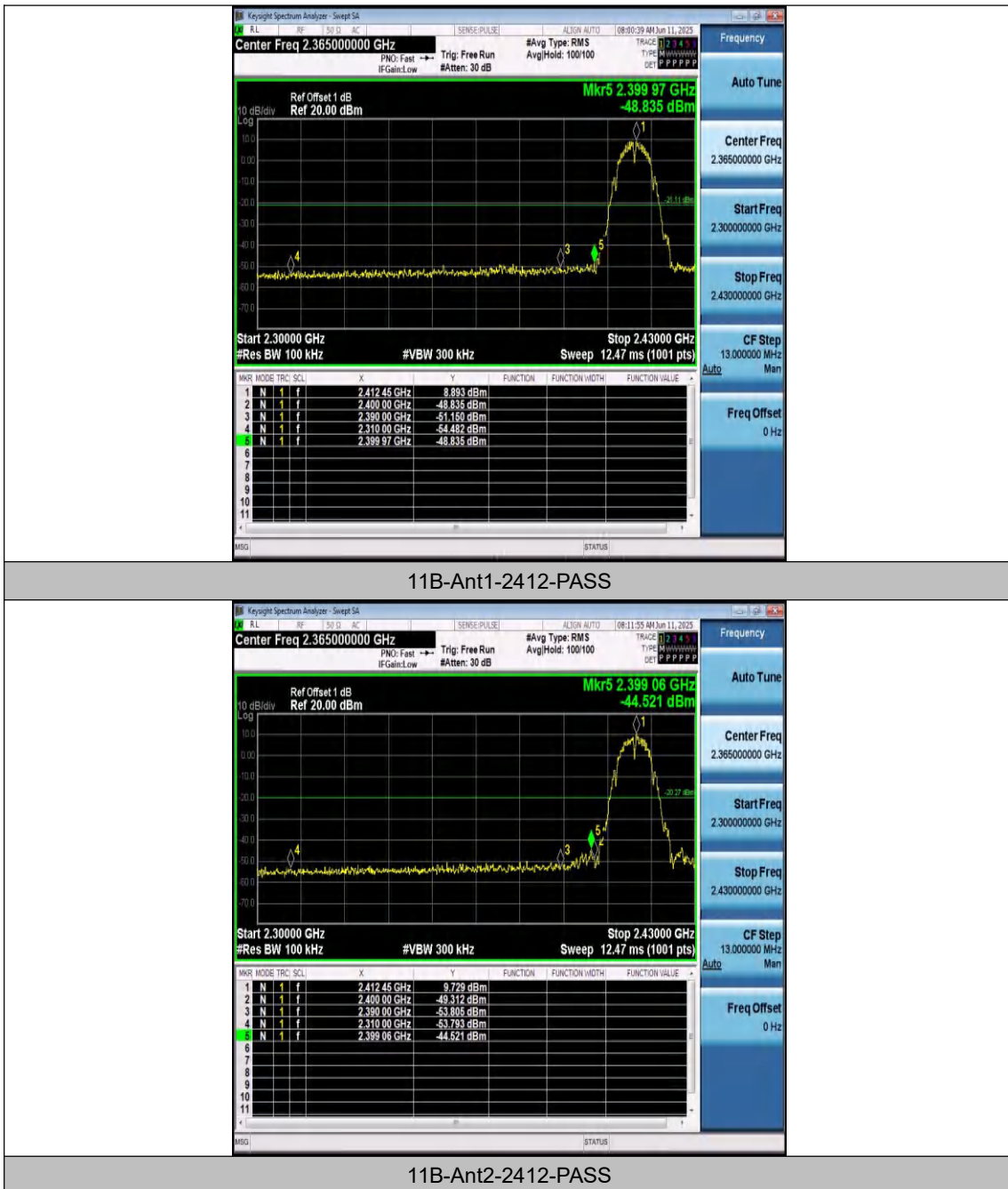
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.89	-48.84	≤-21.11	PASS
11B	Ant2	Low	2412	9.73	-44.52	≤-20.27	PASS
11B	Ant1	High	2462	9.34	-46.52	≤-20.66	PASS
11B	Ant2	High	2462	9.29	-49.55	≤-20.71	PASS
11G	Ant1	Low	2412	5.39	-43.52	≤-24.61	PASS
11G	Ant2	Low	2412	5.67	-41.93	≤-24.33	PASS
11G	Ant1	High	2462	3.92	-48.3	≤-26.08	PASS
11G	Ant2	High	2462	3.54	-47.35	≤-26.46	PASS
11N20MIMO	Ant1	Low	2412	5.75	-41.39	≤-24.25	PASS
11N20MIMO	Ant2	Low	2412	5.20	-42.33	≤-24.8	PASS
11N20MIMO	Ant1	High	2462	5.43	-47.52	≤-24.57	PASS
11N20MIMO	Ant2	High	2462	5.86	-47.97	≤-24.14	PASS
11AX20MIMO	Ant1	Low	2412	5.31	-45.32	≤-24.7	PASS
11AX20MIMO	Ant2	Low	2412	5.77	-41.42	≤-24.23	PASS
11AX20MIMO	Ant1	High	2462	4.78	-39.33	≤-25.22	PASS
11AX20MIMO	Ant2	High	2462	5.41	-46.53	≤-24.59	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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