

Appendix Test Data

Report No.:	1812C50197912503	Test Sample No.:	1-2-2
Start Test Date:	2025-04-30	Finish Test Date:	2025-04-30
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.4°C	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

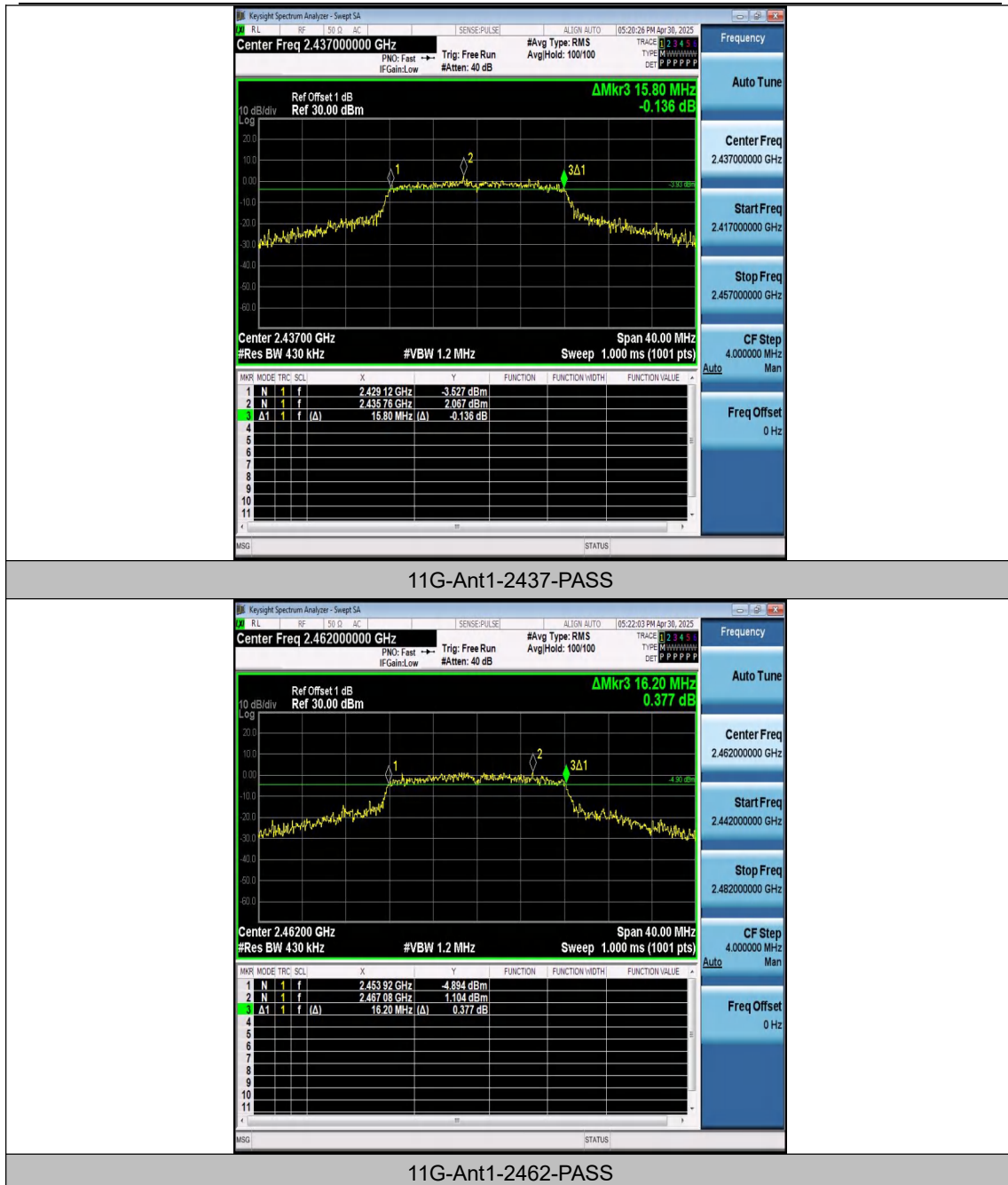
Test Result

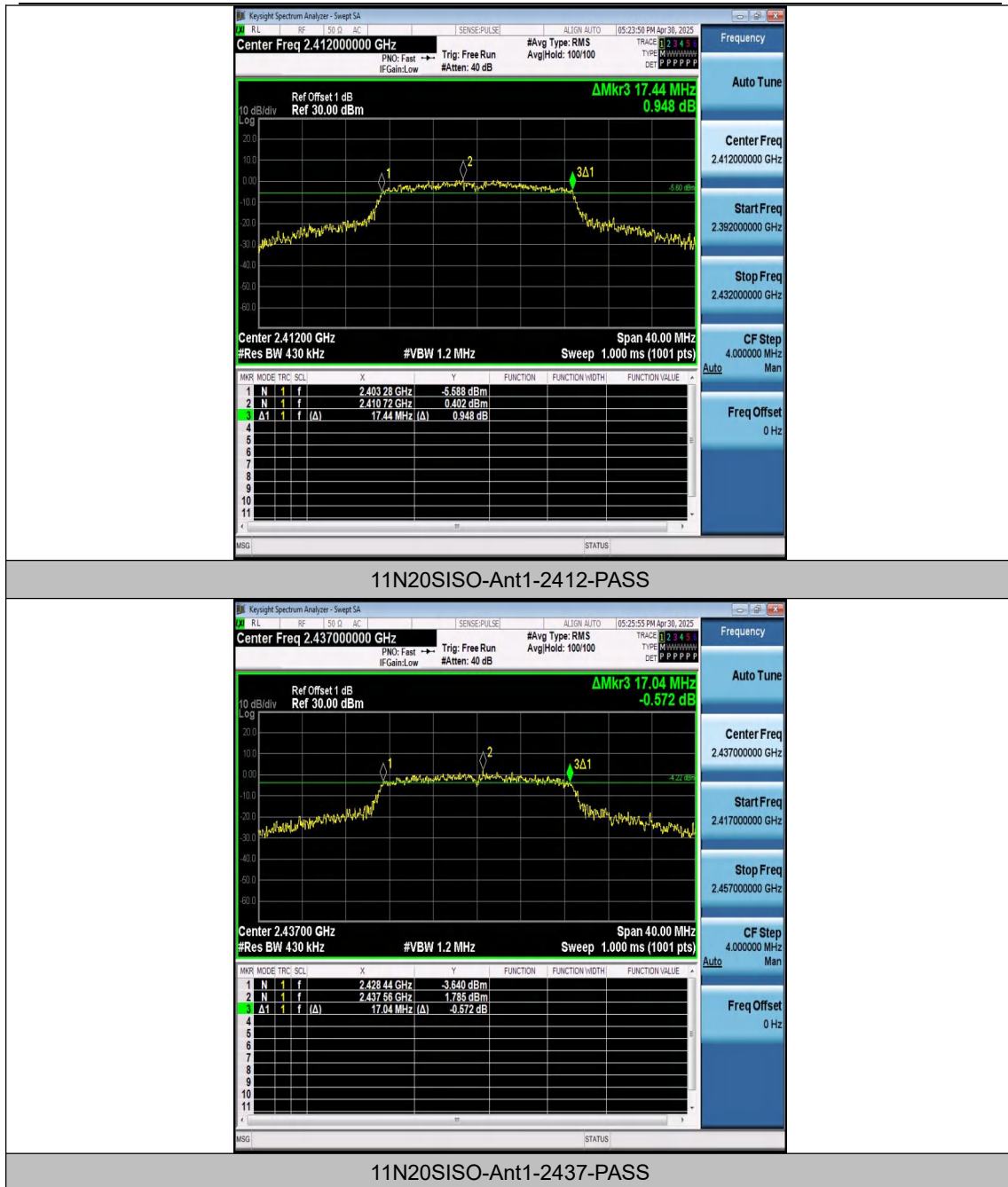
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
11B	Ant1	2437	10.280	2431.880	2442.160	0.5	PASS
11B	Ant1	2462	10.280	2456.880	2467.160	0.5	PASS
11G	Ant1	2412	16.200	2403.840	2420.040	0.5	PASS
11G	Ant1	2437	15.800	2429.120	2444.920	0.5	PASS
11G	Ant1	2462	16.200	2453.920	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.440	2403.280	2420.720	0.5	PASS
11N20SISO	Ant1	2437	17.040	2428.440	2445.480	0.5	PASS
11N20SISO	Ant1	2462	17.040	2453.280	2470.320	0.5	PASS
11N40SISO	Ant1	2422	34.720	2404.560	2439.280	0.5	PASS
11N40SISO	Ant1	2437	35.120	2419.480	2454.600	0.5	PASS
11N40SISO	Ant1	2452	35.600	2434.240	2469.840	0.5	PASS

Test Graphs







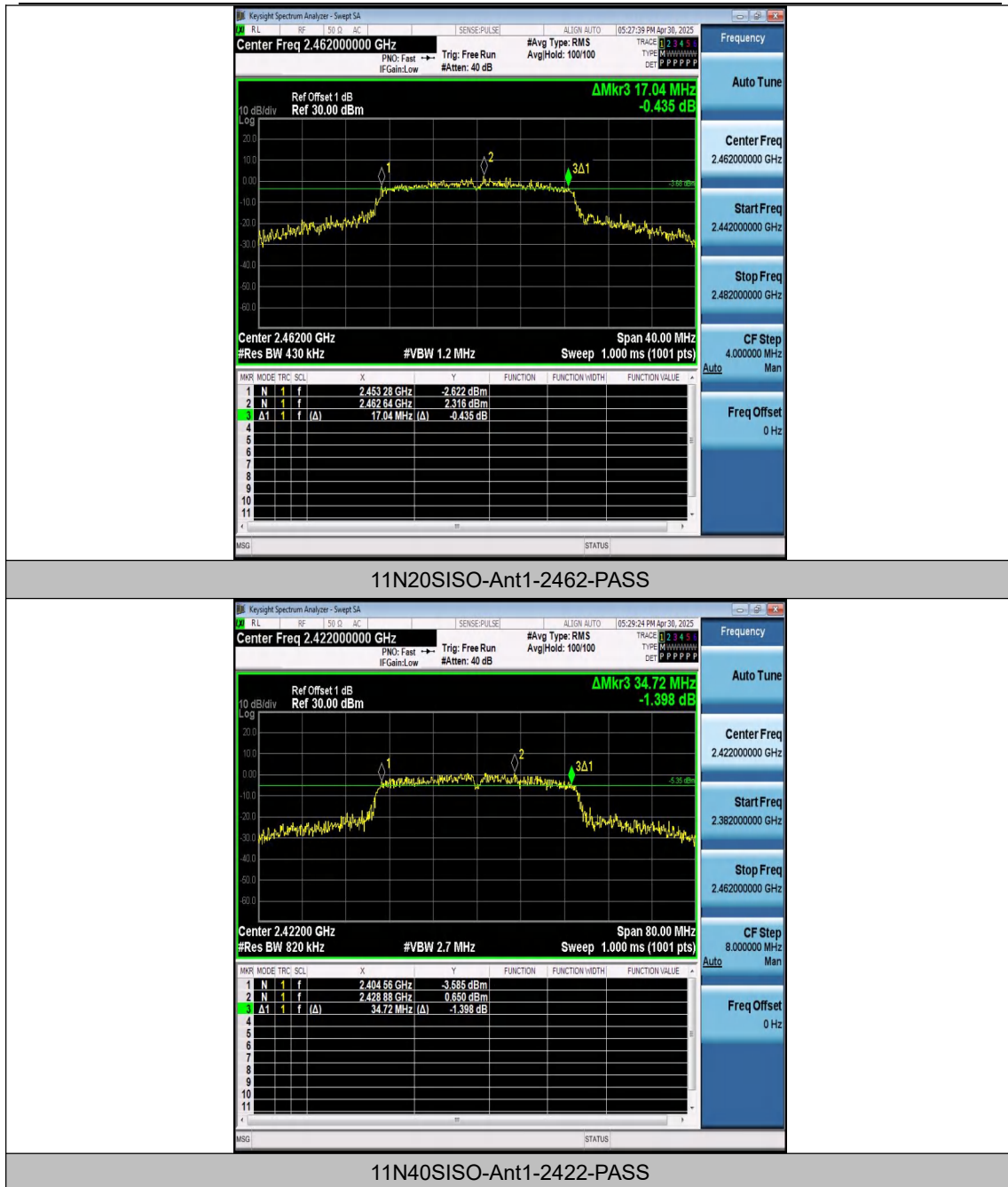


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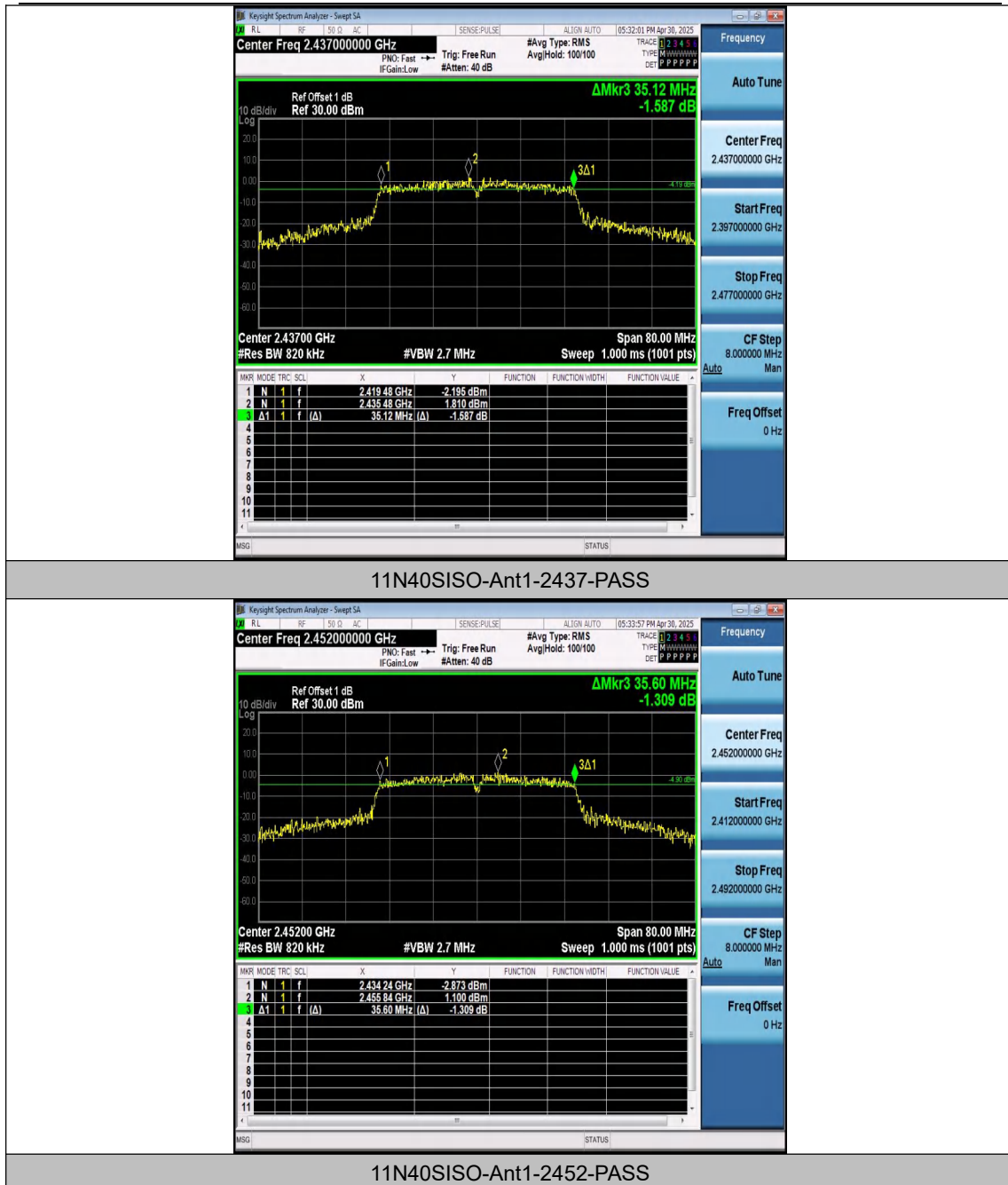


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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	16.362	2404.0311	2420.3931	---	---
11B	Ant1	2437	17.191	2428.6157	2445.8067	---	---
11B	Ant1	2462	17.681	2453.2297	2470.9107	---	---
11G	Ant1	2412	20.171	2402.1619	2422.3329	---	---
11G	Ant1	2437	21.589	2425.9740	2447.5630	---	---
11G	Ant1	2462	20.838	2451.4054	2472.2434	---	---
11N20SISO	Ant1	2412	19.746	2401.9915	2421.7375	---	---
11N20SISO	Ant1	2437	21.907	2425.9928	2447.8998	---	---
11N20SISO	Ant1	2462	22.477	2450.3637	2472.8407	---	---
11N40SISO	Ant1	2422	37.395	2403.3646	2440.7596	---	---
11N40SISO	Ant1	2437	38.538	2418.0786	2456.6166	---	---
11N40SISO	Ant1	2452	38.795	2432.5949	2471.3899	---	---

Test Graphs



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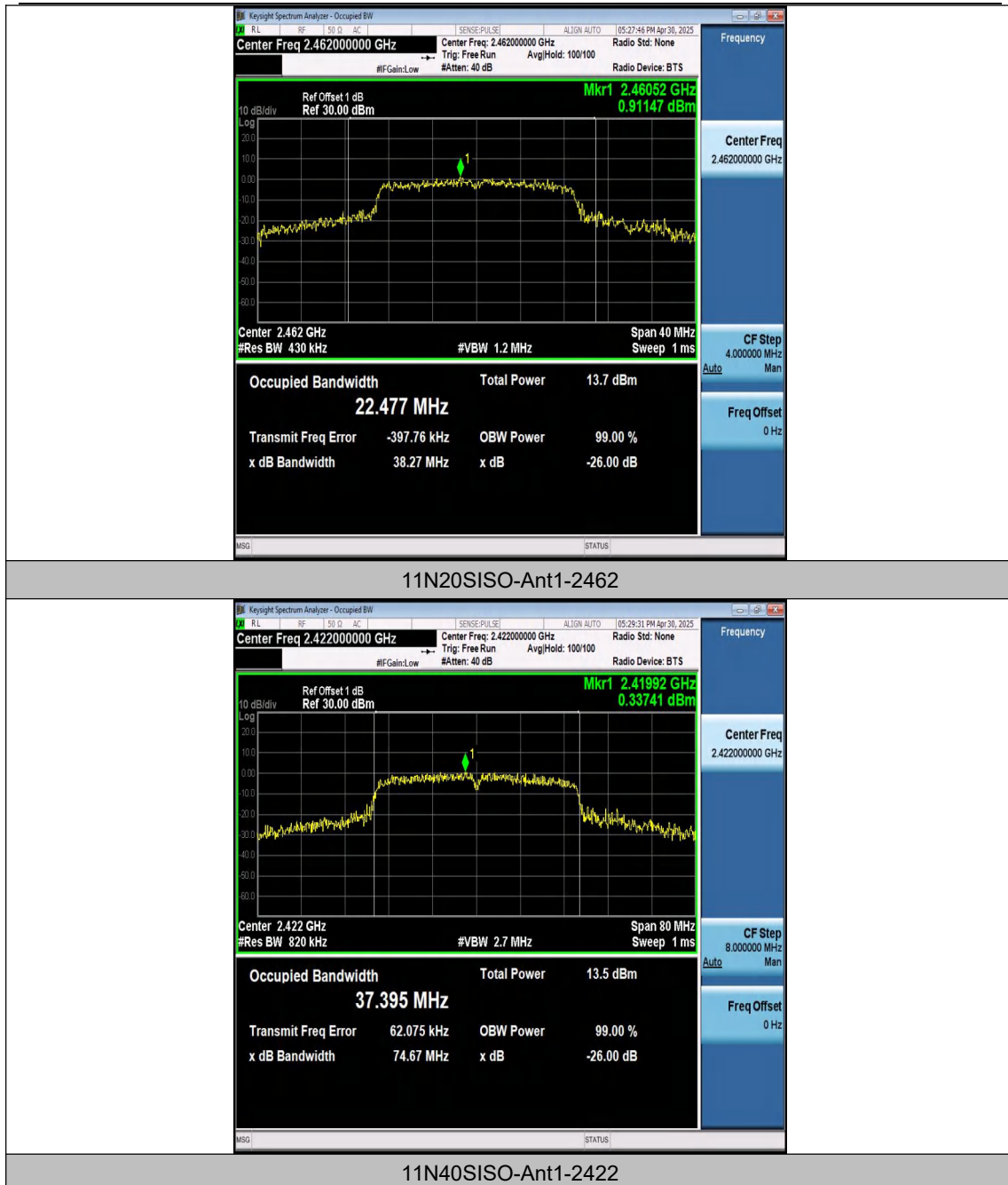
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Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	7.36	54.71	2.62	9.98	≤30.00	PASS
11B	Ant1	2437	7.07	54.71	2.62	9.69	≤30.00	PASS
11B	Ant1	2462	7.20	54.71	2.62	9.82	≤30.00	PASS
11G	Ant1	2412	0.48	16.53	7.82	8.30	≤30.00	PASS
11G	Ant1	2437	2.16	15.33	8.14	10.30	≤30.00	PASS
11G	Ant1	2462	0.67	16.53	7.82	8.49	≤30.00	PASS
11N20SISO	Ant1	2412	-0.17	15.13	8.20	8.03	≤30.00	PASS
11N20SISO	Ant1	2437	-2.18	15.83	8.01	5.83	≤30.00	PASS
11N20SISO	Ant1	2462	-0.15	13.48	8.70	8.55	≤30.00	PASS
11N40SISO	Ant1	2422	-1.84	8.18	10.87	9.03	≤30.00	PASS
11N40SISO	Ant1	2437	-1.54	8.18	10.87	9.33	≤30.00	PASS
11N40SISO	Ant1	2452	-1.98	8.18	10.87	8.89	≤30.00	PASS

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

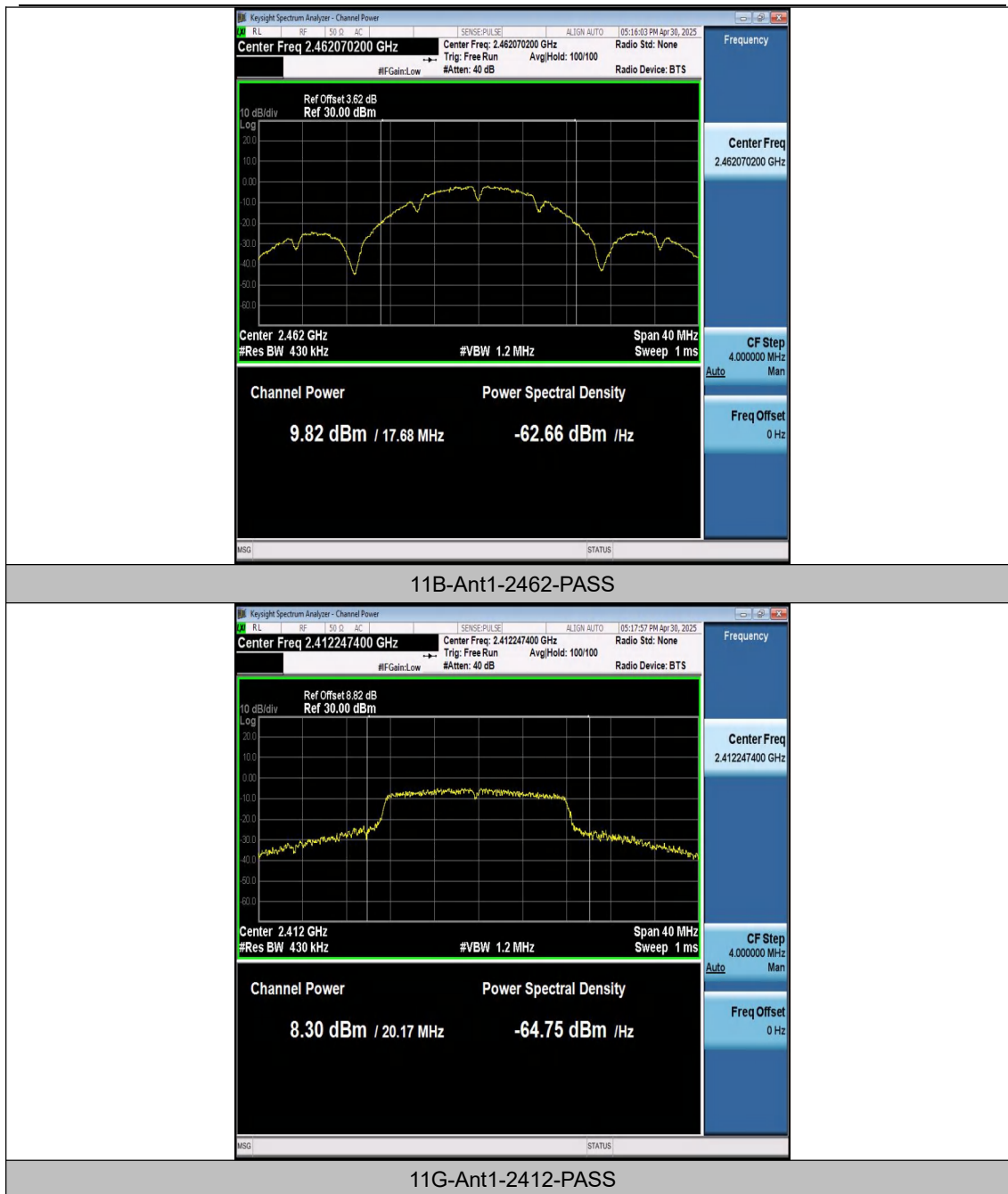
Test Graphs Average

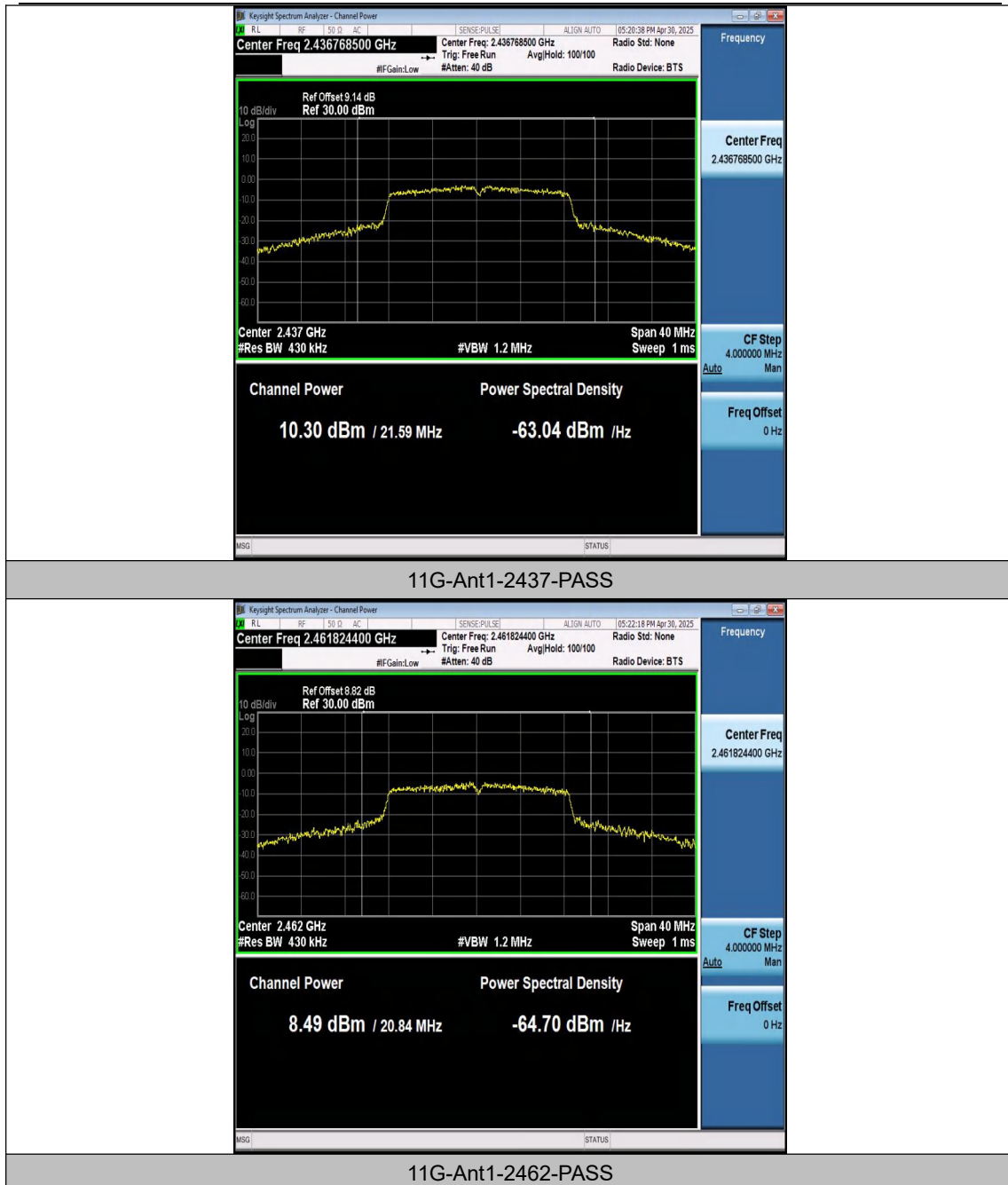


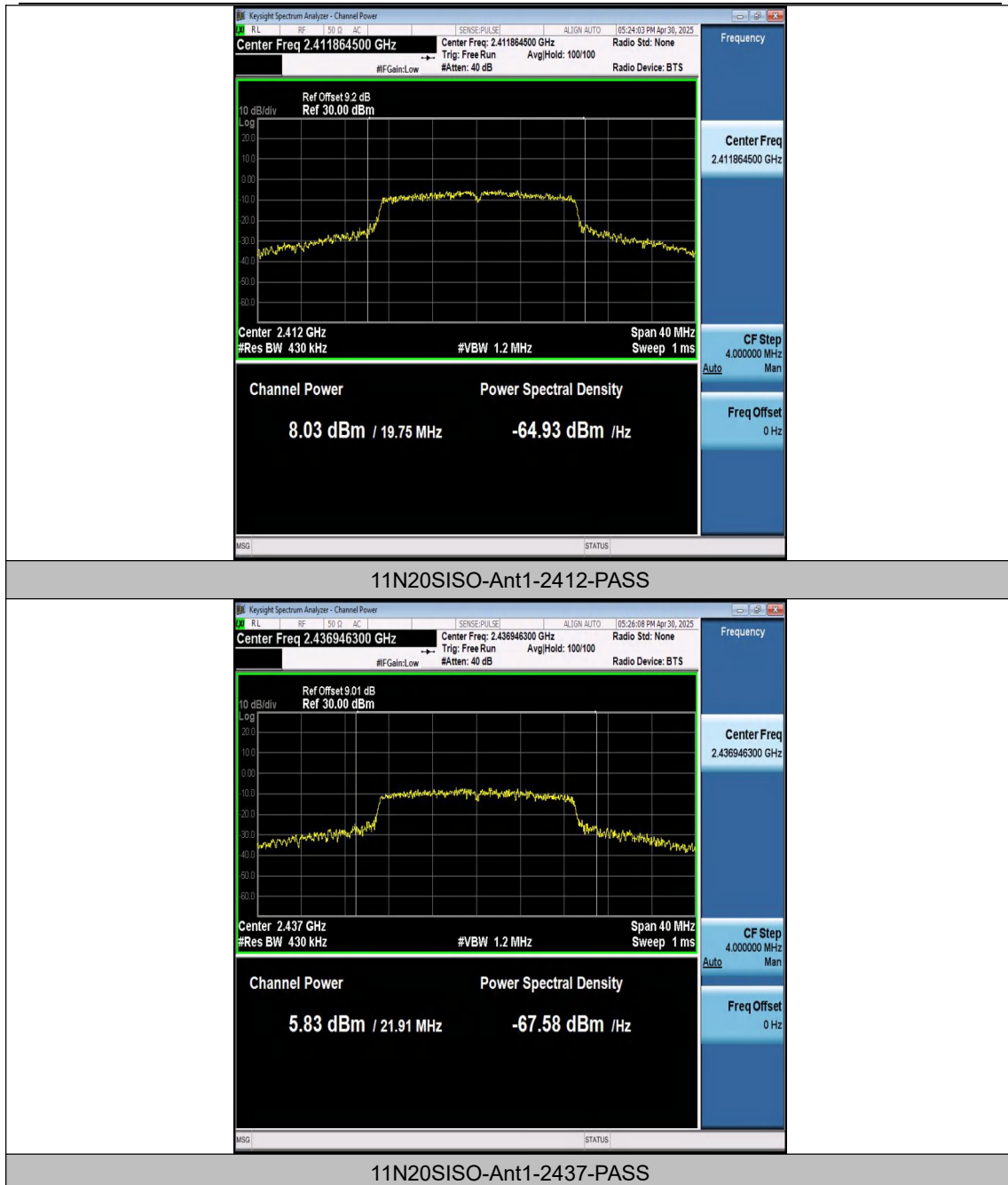
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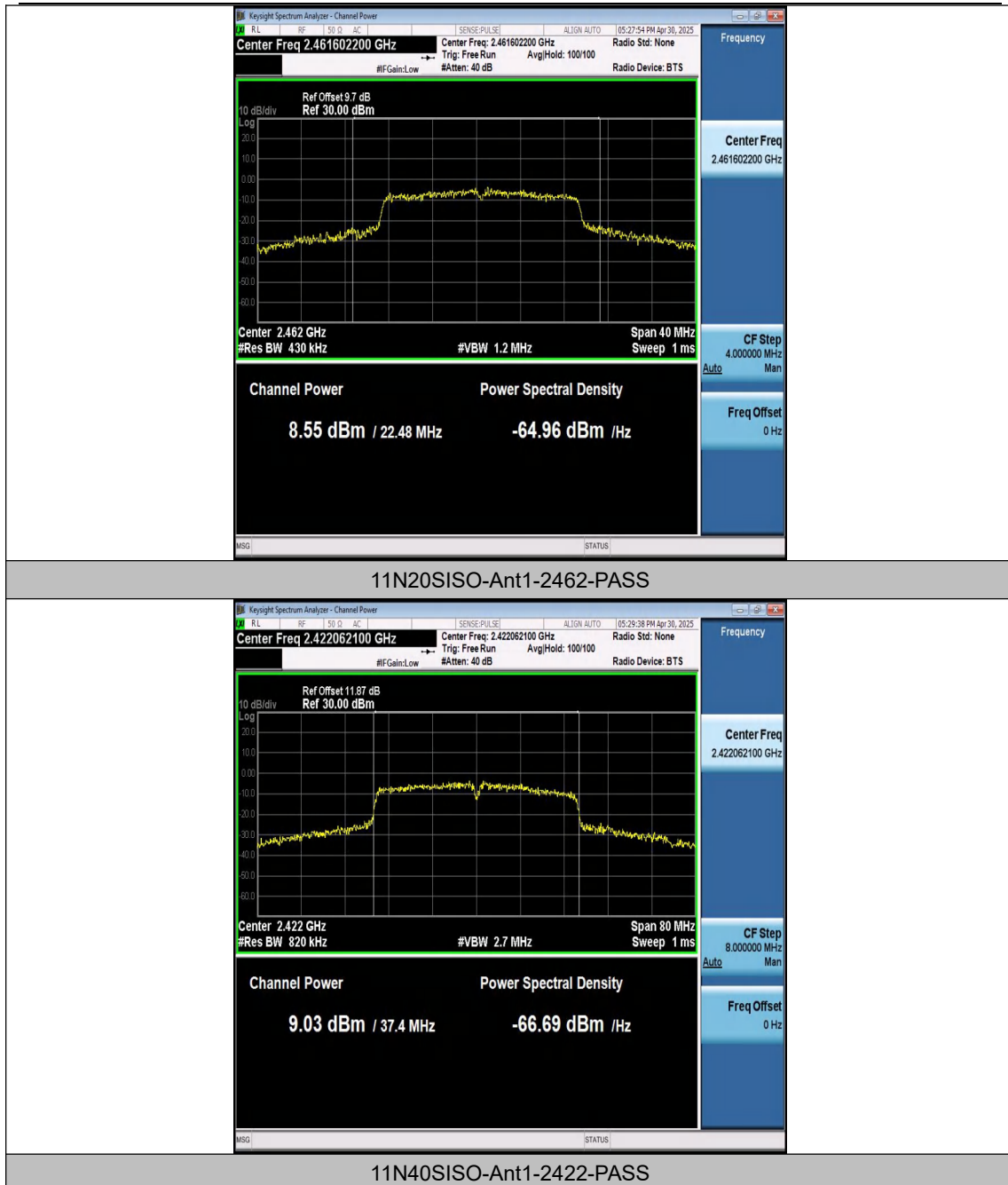
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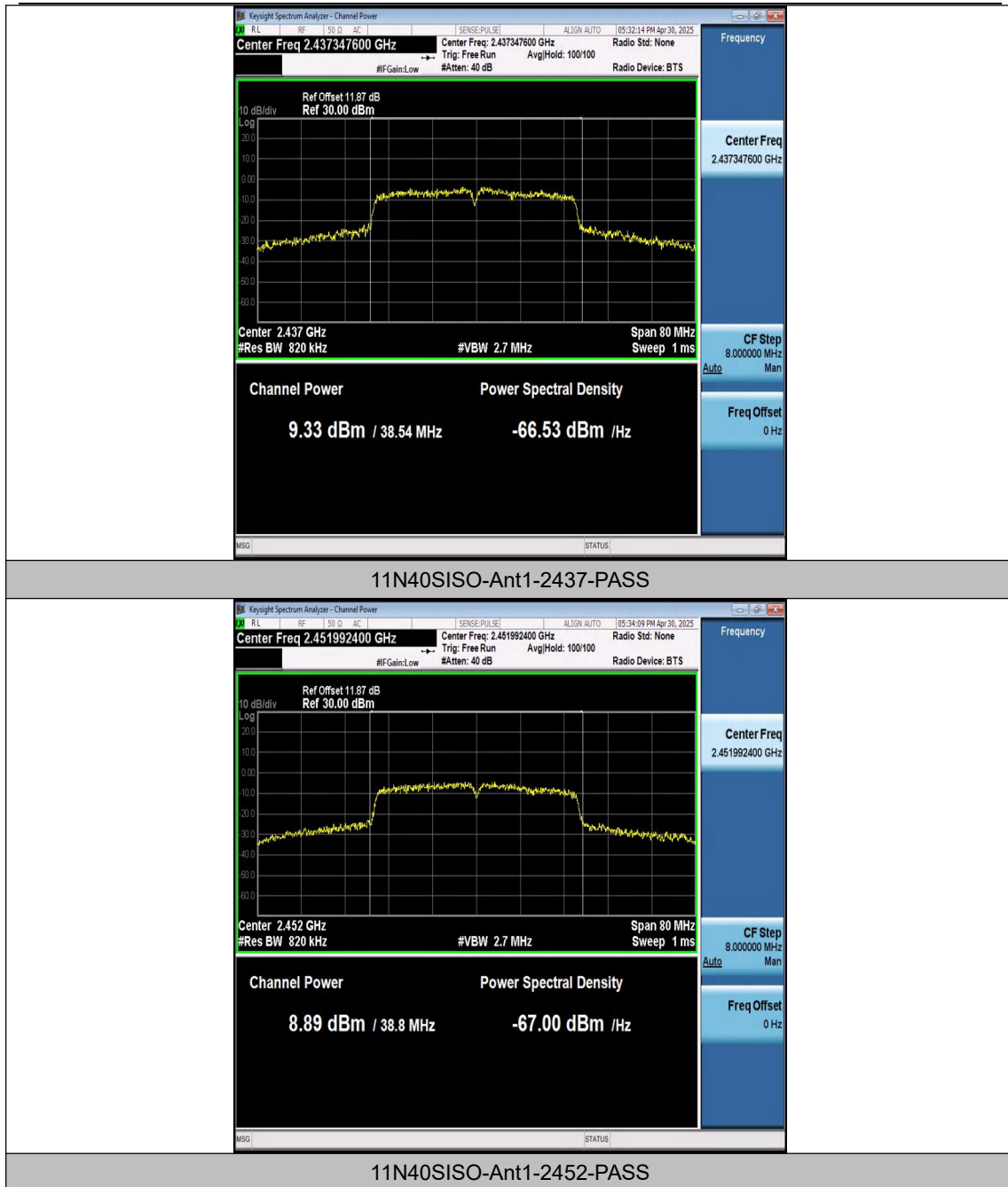
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Appendix D: Maximum power spectral density

Test Result

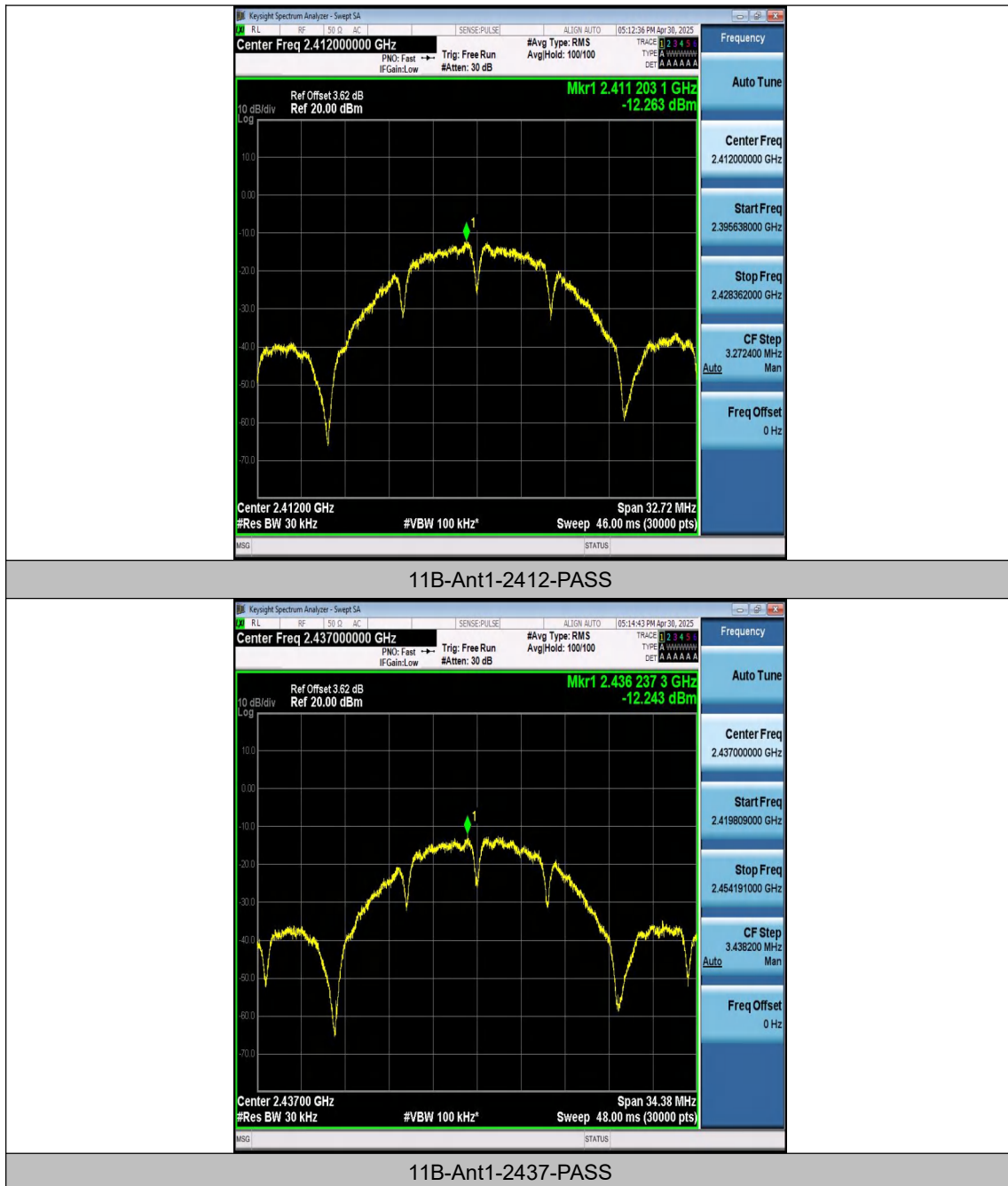
Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.26	-22.26	≤8.00	PASS
11B	Ant1	2437	-12.24	-22.24	≤8.00	PASS
11B	Ant1	2462	-12.04	-22.04	≤8.00	PASS
11G	Ant1	2412	-14.45	-24.45	≤8.00	PASS
11G	Ant1	2437	-13.34	-23.34	≤8.00	PASS
11G	Ant1	2462	-12.50	-22.5	≤8.00	PASS
11N20SISO	Ant1	2412	-13.38	-23.38	≤8.00	PASS
11N20SISO	Ant1	2437	-14.05	-24.05	≤8.00	PASS
11N20SISO	Ant1	2462	-12.17	-22.17	≤8.00	PASS
11N40SISO	Ant1	2422	-15.14	-25.14	≤8.00	PASS
11N40SISO	Ant1	2437	-14.87	-24.87	≤8.00	PASS
11N40SISO	Ant1	2452	-14.87	-24.87	≤8.00	PASS

Note:

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



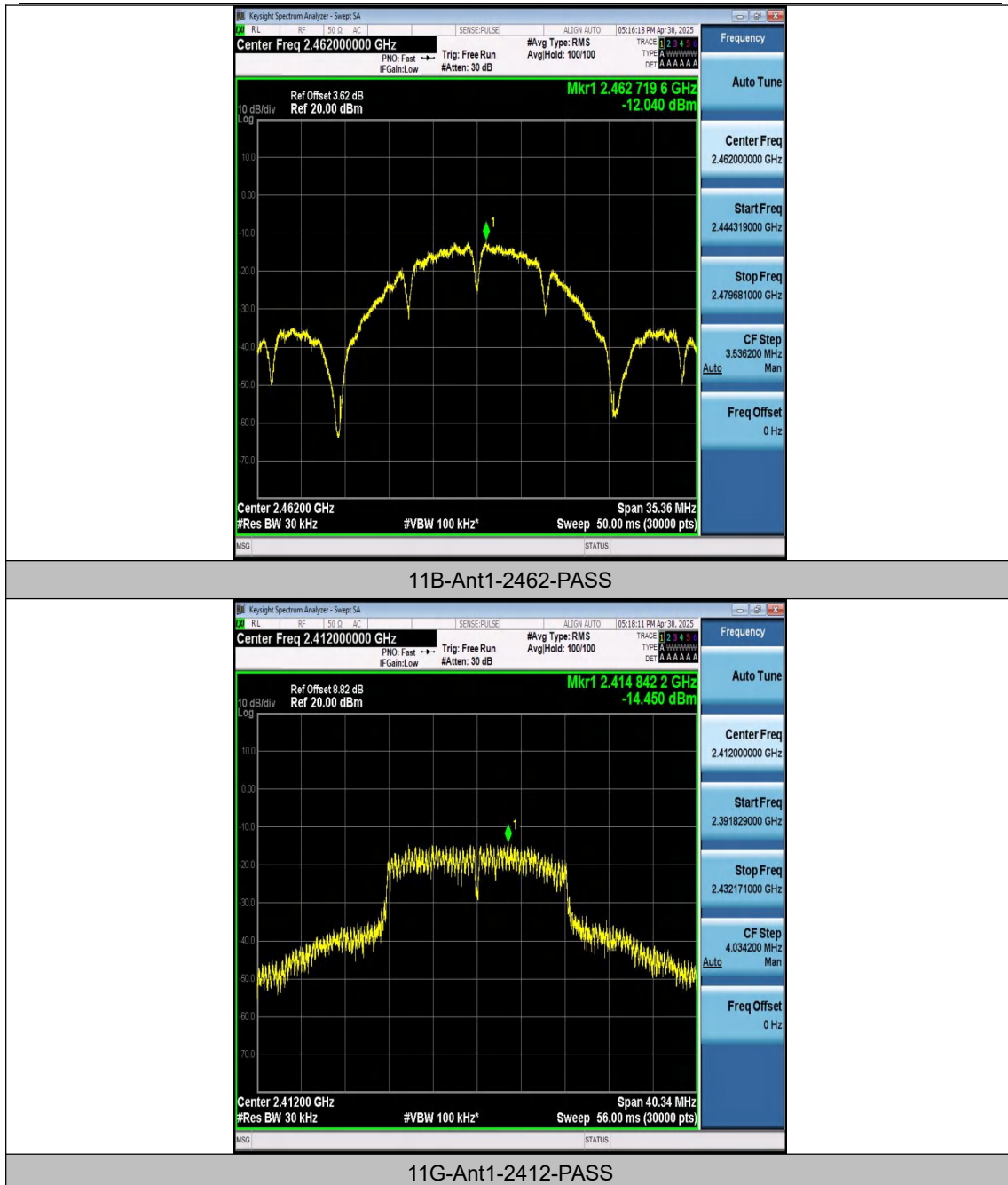
Test Graphs

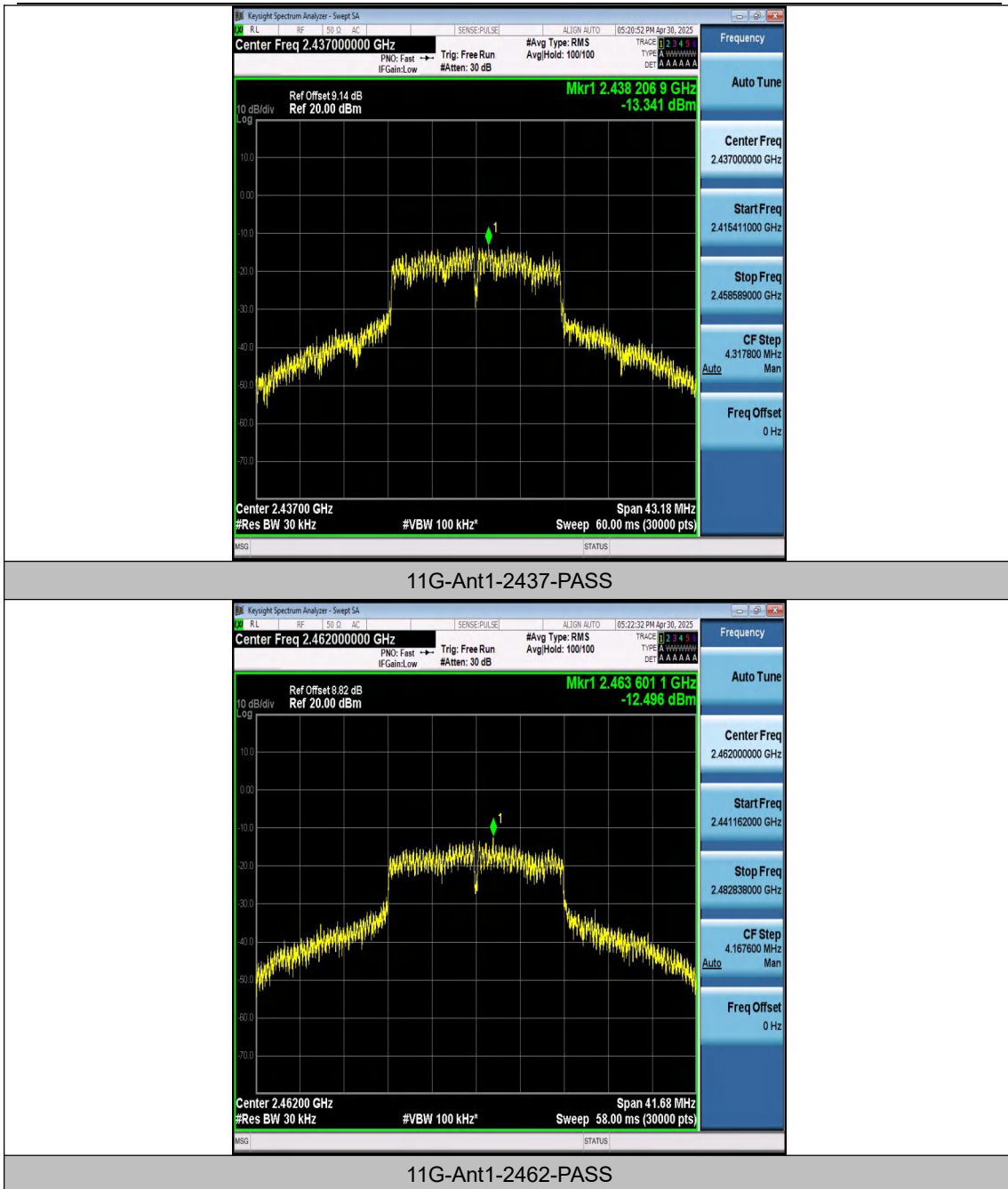


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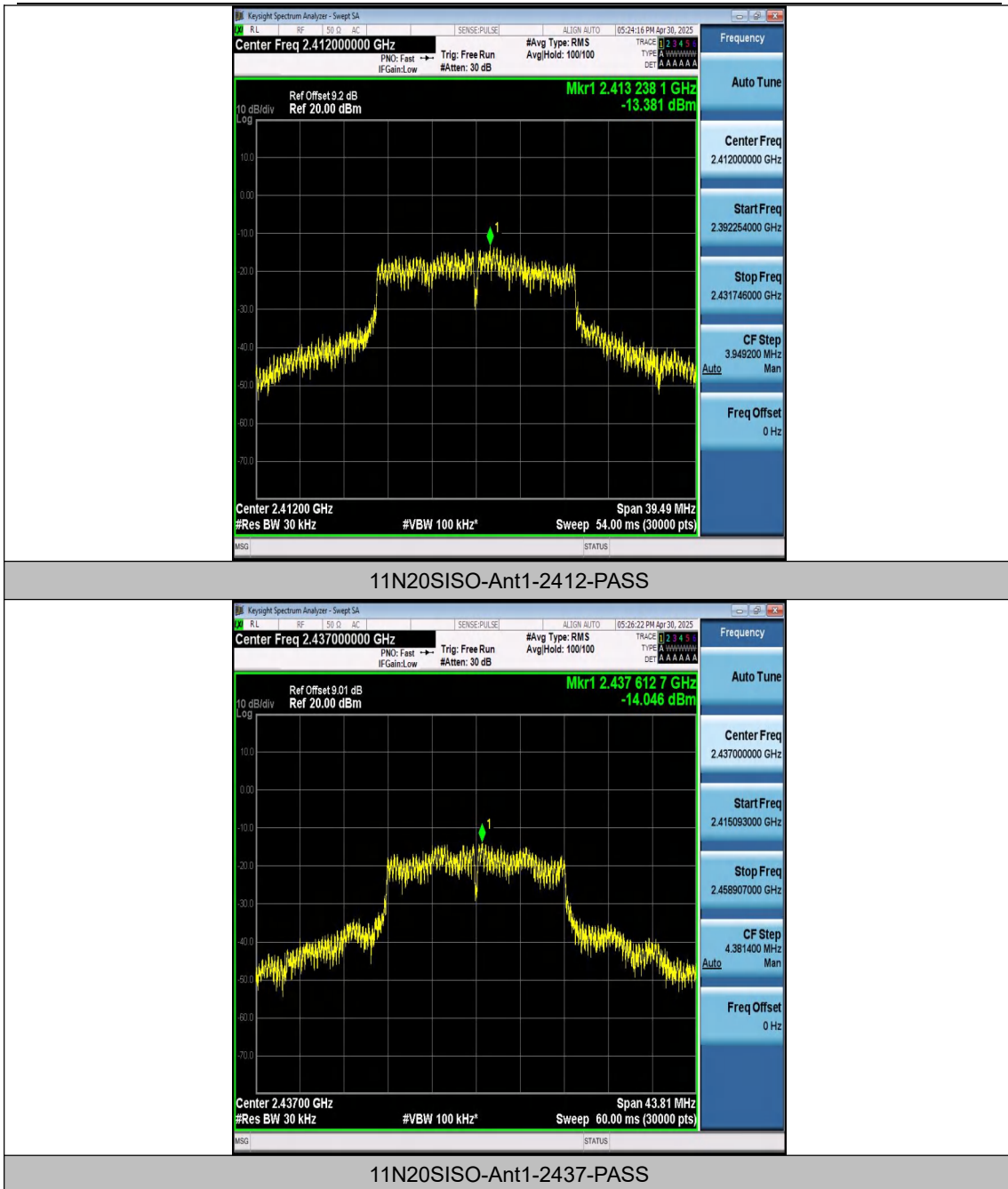




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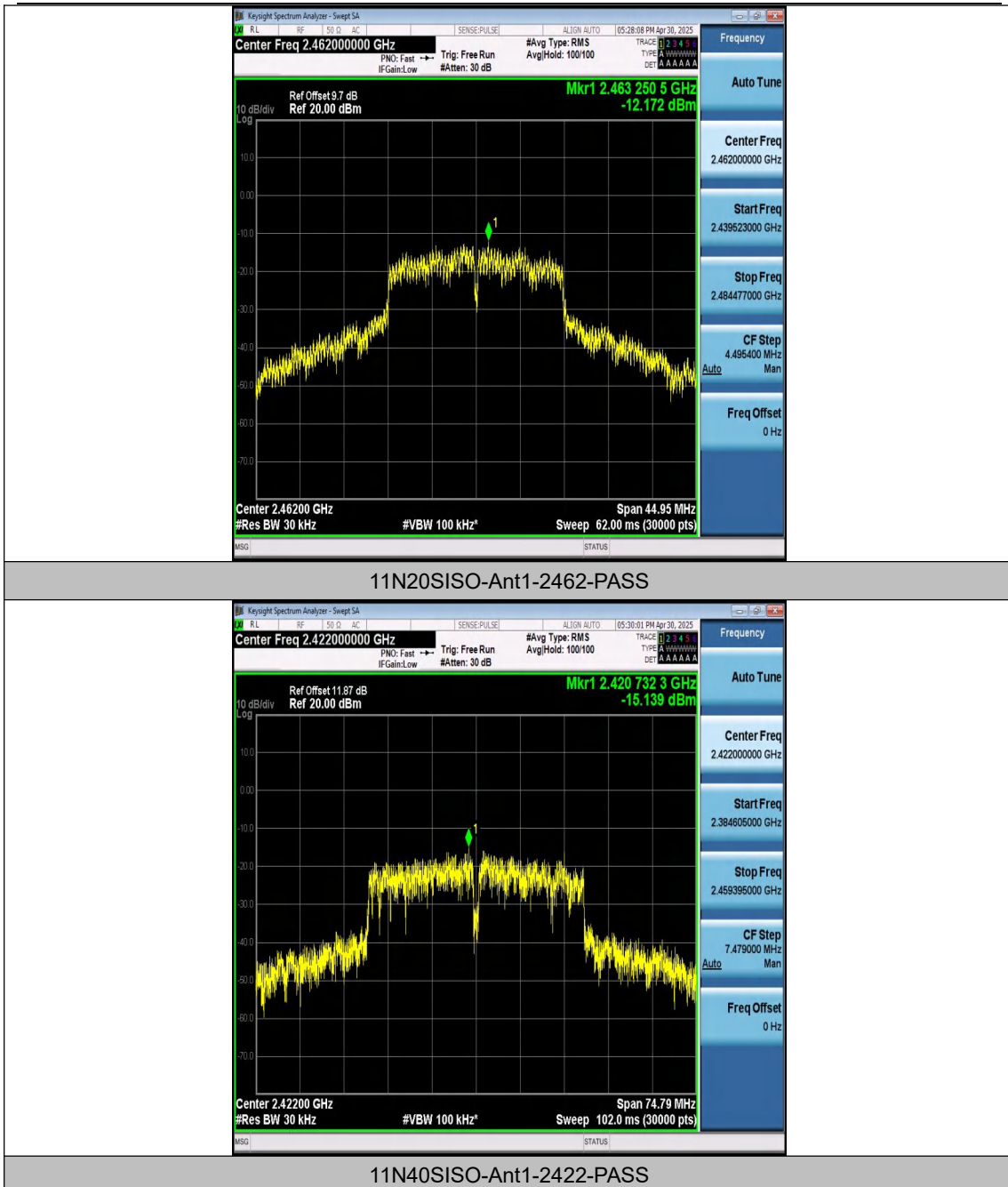


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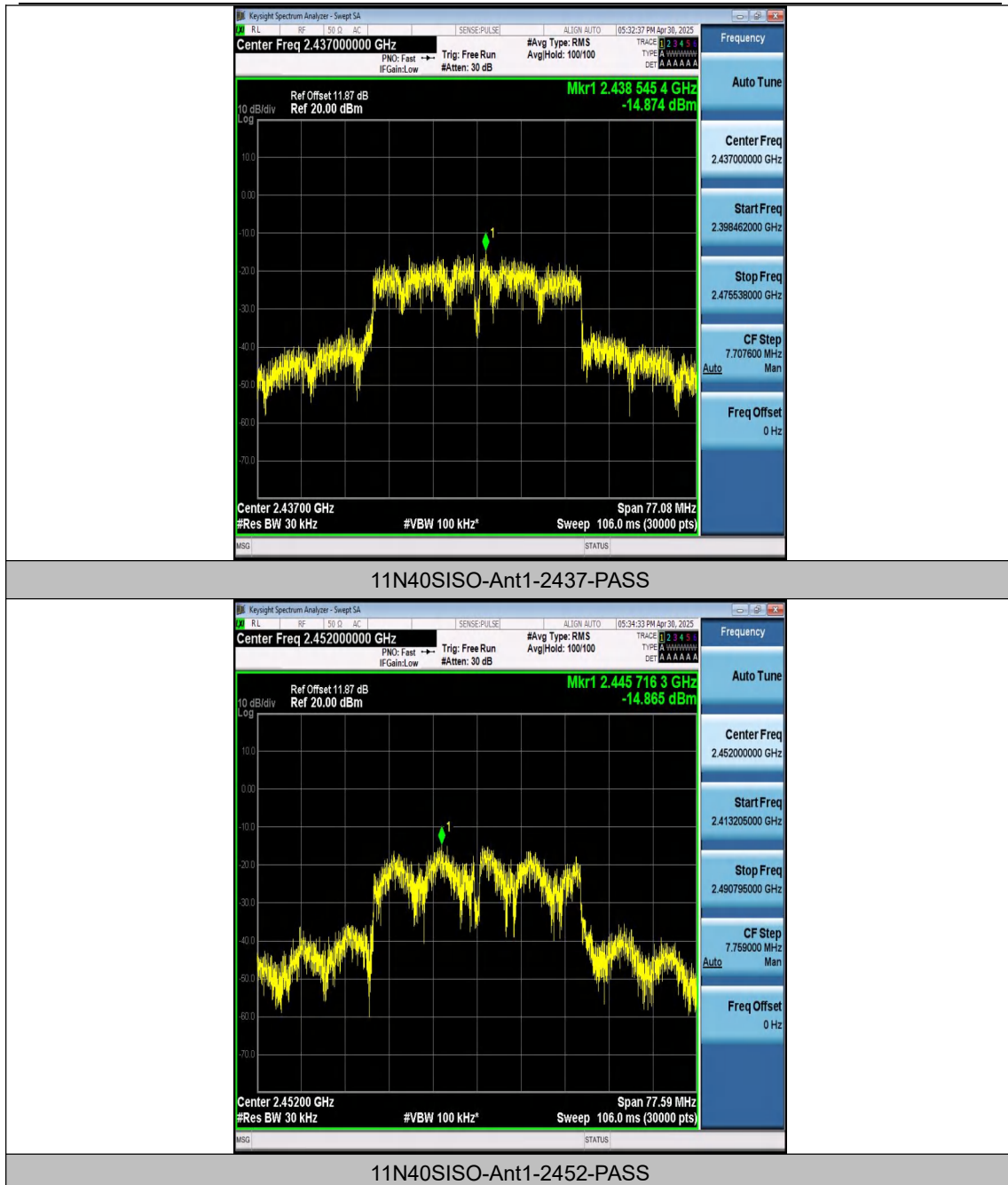


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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency[MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.98	-48.93	≤-31.98	PASS
11B	Ant1	High	2462	-3.24	-56.34	≤-33.24	PASS
11G	Ant1	Low	2412	-3.03	-53.79	≤-33.03	PASS
11G	Ant1	High	2462	-3.54	-55.93	≤-33.54	PASS
11N20SISO	Ant1	Low	2412	-2.90	-54.24	≤-32.9	PASS
11N20SISO	Ant1	High	2462	-3.47	-56.32	≤-33.47	PASS
11N40SISO	Ant1	Low	2422	-5.42	-51.67	≤-35.42	PASS
11N40SISO	Ant1	High	2452	-5.77	-55.24	≤-35.77	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

