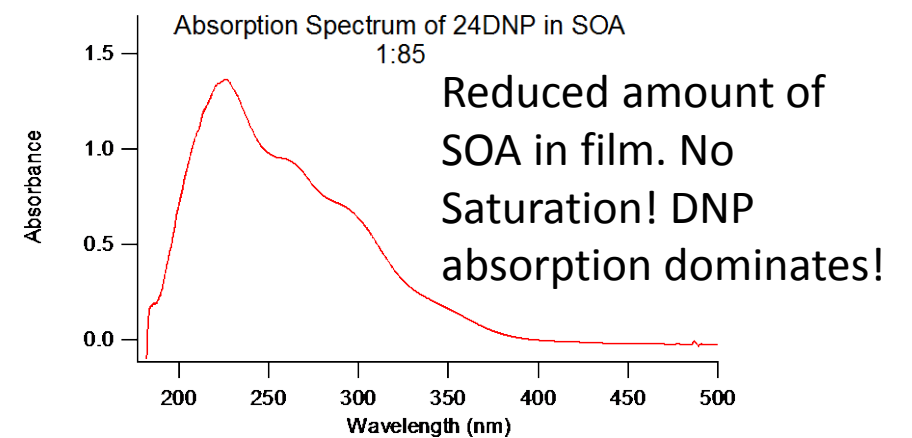
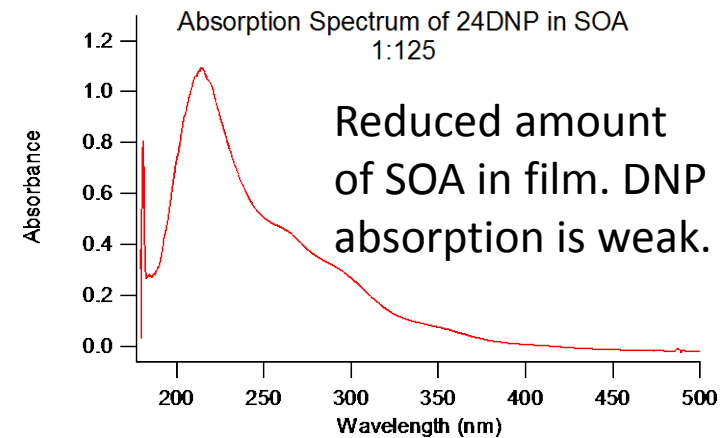
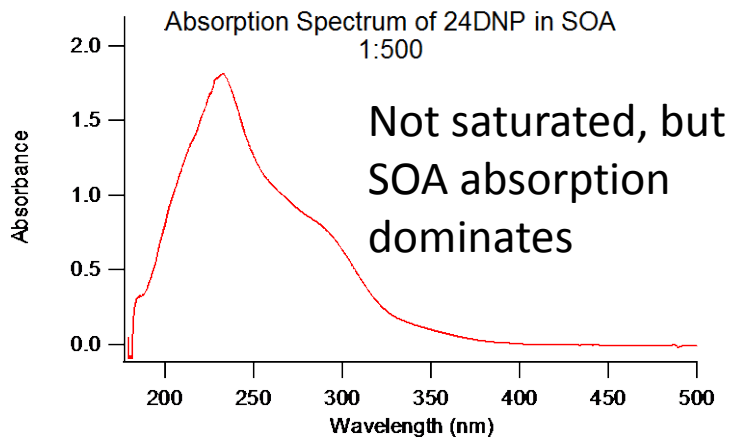
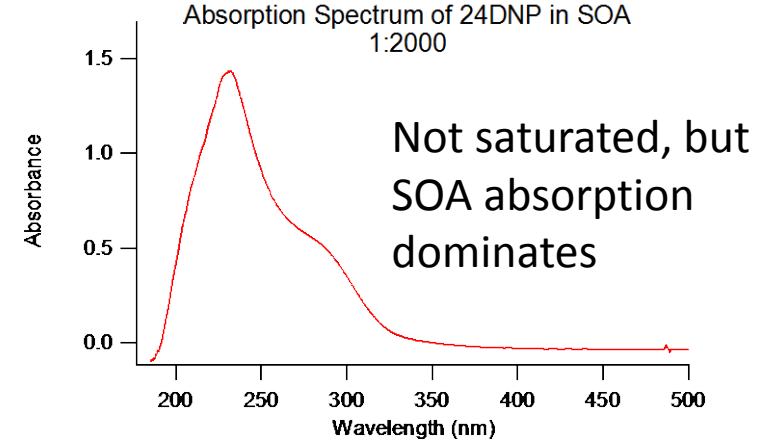
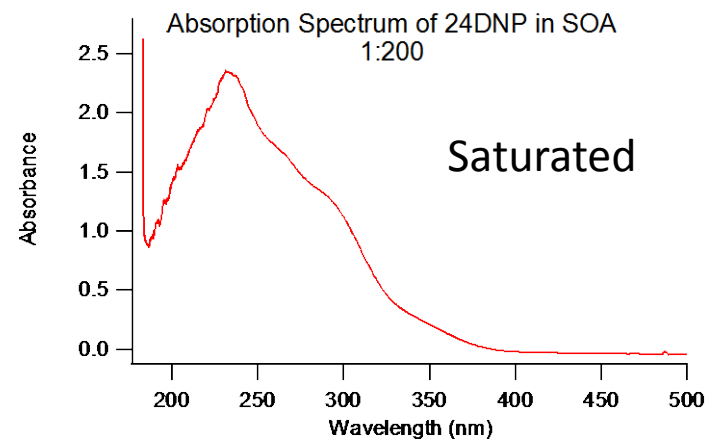
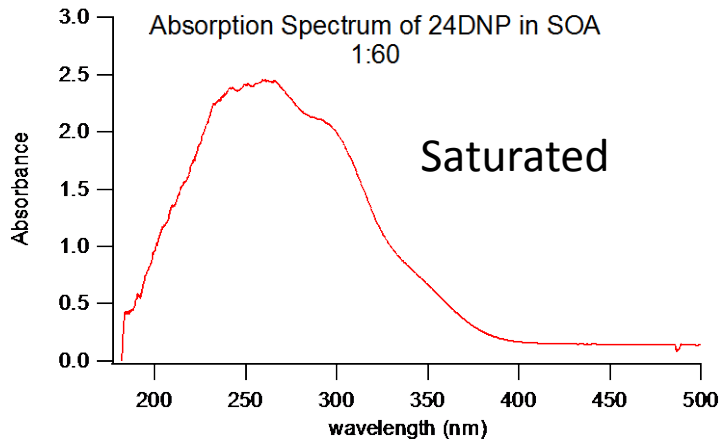


August 26th to Sept 6th

Report by Power Awesome

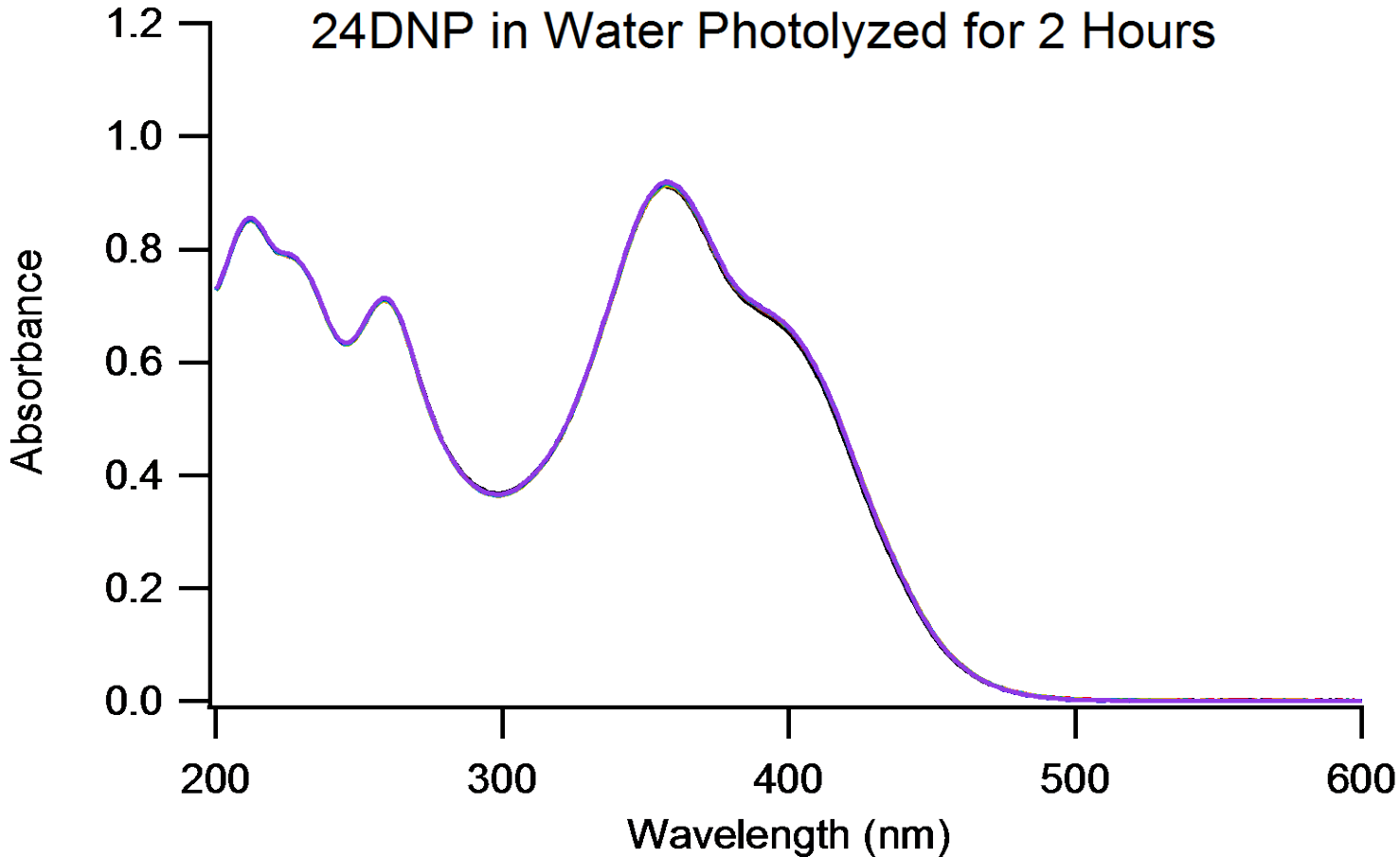
GOAL FOR THE WEEK: CONTINUE PHOTOCHEMISTRY EXPERIMENTS WITH 2,4-DINITROPHENOL USING THE SETUP DESCRIBED IN THE REPORT FROM JULY 7.

24DNP in SOA Photolysis: This week we tried to lower the concentration of 24DNP in the SOA matrix to prevent saturation of the absorption signal. We made SOA for 2 hours rather than 3 hours and used half of that to mix with the 24DNP and make the thin film.



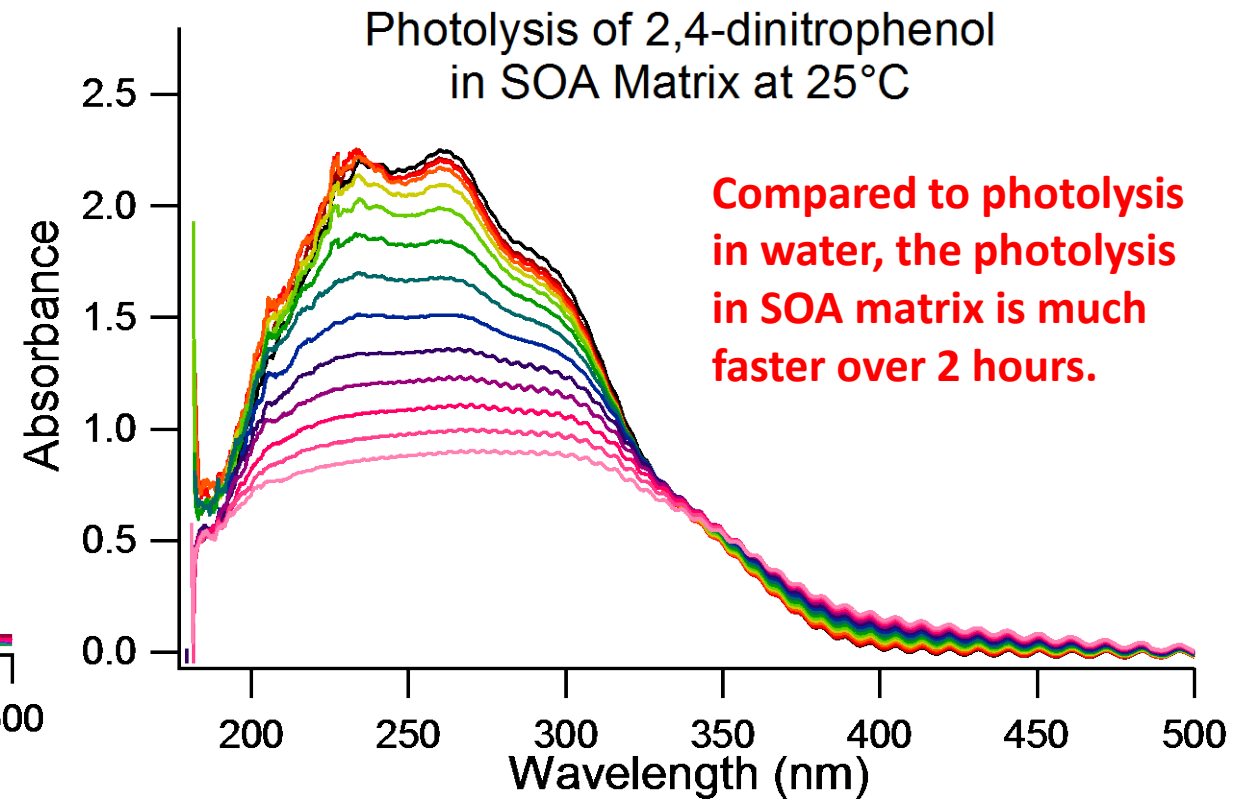
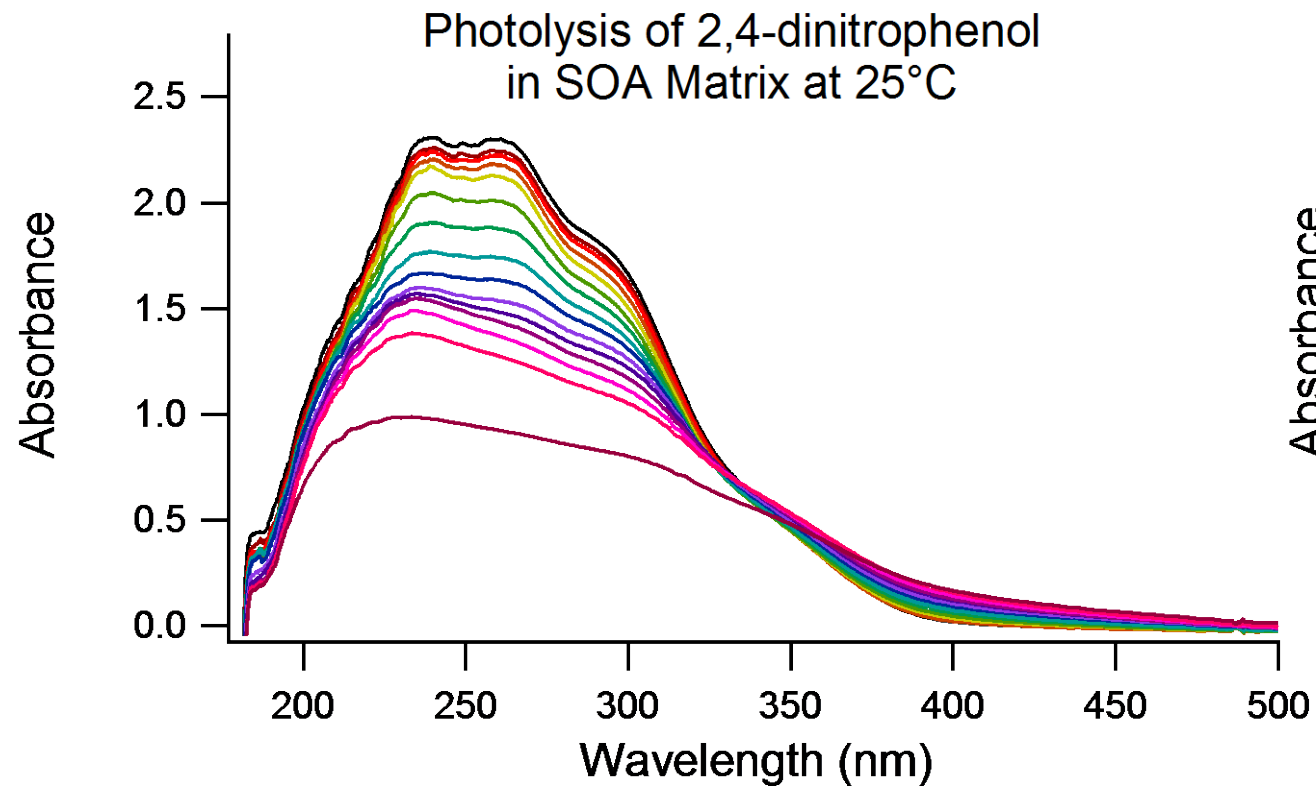
24DNP Photolyzed in Water

24DNP in Water Photolyzed for 2 Hours



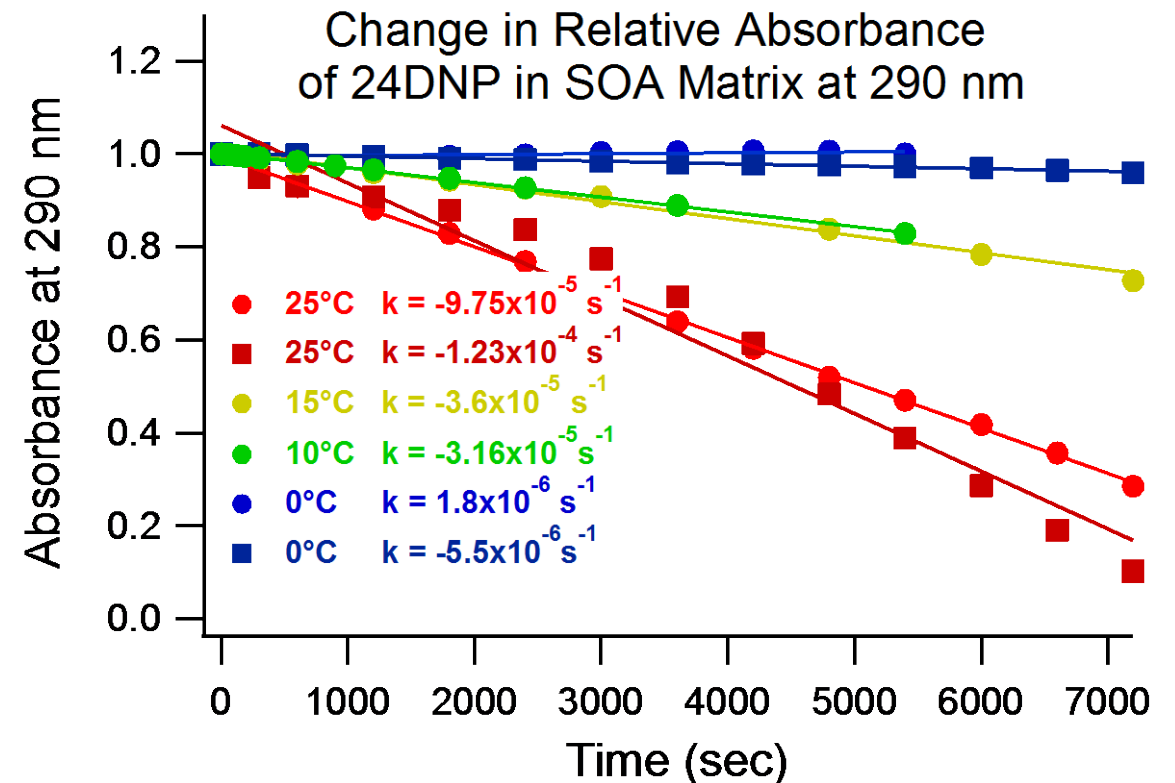
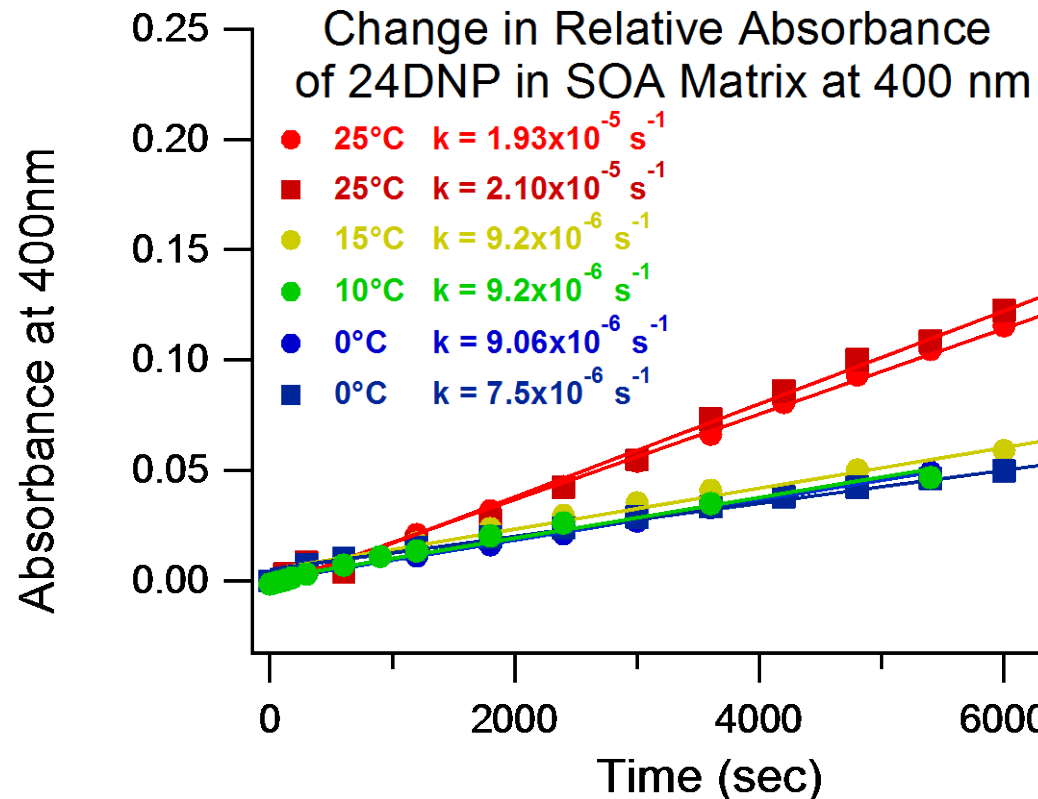
This confirms the previous result that 24DNP is stable with respect to photolysis in water – no change is seen in the absorption spectrum after 2 hours.

Photolysis of 2,4-dinitrophenol (24DNP) in SOA Matrix 25°C (2 hours)



Summary of 24DNP in SOA Photolysis

This is a compilation of all of the data collected thus far for the photolysis of 24DNP in SOA.



Plans for Next Week

- In the coming week I will be reading the papers on the photolysis of 2-nitrophenol and 4-nitrophenol we found this weekend.
- New experiments this week will attempt to reduce the concentration even further.