

## Using the Autosampler with the 5890 GC.

1. Follow directions for setting parameters under directions for the 5890 Series II Gas Chromatograph and save the method under a name you will remember.
2. Pick 1 or 2 solvents for cleaning the syringe that will rinse the materials you are using and put them in 4-mL vials with diffusion caps in the slots on the tray labeled solvent 1 and solvent 2. Take care that the solvent level does not drop below the solvent line at any time.
3. Put 2 empty bottles in the slots labeled waste A and waste B. Make sure you put them in BOTH or else you could have a mess.
4. Prepare your samples in 2-mL vials filled up to approximately 1 mL. Going above or below this amount could cause problems.
5. Under **Window** select **Instrument Control**.
6. Under **Instrument** select **Injection Parameters**. Clicking on the Injector icon on the Instrument control screen can also do this.
7. Under sample preinjection, put a number of times you want the syringe to be rinsed with your sample prior to injection. 3-5 rinses before and after is usually adequate.
8. Determine how many times you want your syringe rinsed with each solvent, 3-5 rinses should be sufficient.
9. Under pumps, place the amount of times you want the syringe to suck your sample up and eject it back into the vial before finally taking its final sample. This eliminates air bubbles. 3-6 pumps are usually adequate.
10. Choose **Top** from the **View** menu.
11. Go to **Edit Sample Log Table** under **Sequence**.
12. Fill in the table for each run you wish to do. Vial is the position the sample is in the tray. Data file is what the run will be saved under when you go to retrieve your data in data analysis. Method is the name of the method you previously wrote and saved under a name chosen by you. Sample name is what the sample is you are running. You can use cut, copy and paste to make as few or as many runs as you wish.
13. Click on OK when you have finished editing the log table.
14. Under **Sequence**, select **Load and Run Sequence**
15. Choose a name for your sequence.
16. Run the full method. Run on a barcode mismatch because we do not have barcodes.
17. Type in your name under operator name.
18. Click on run sequence to begin the sequence.
19. When sequence is finished, follow directions for data analysis under directions for 5890 series II Gas Chromatograph.

Last Update: 17 February 2000 Christina Moore and Eric Williamsen