

## CALIBRATING CHROMATOGRAPH IN UNITS

1. Allow machine to warm up. At least 30 minutes is preferred.
2. Adjust carrier air pressure to 5 psi unless optimal psi for specific machine is known and different.
3. Move switch on the front of the Geospect system to calibrate.
4. Allow fresh air to flow through the system until you are sure the column is free of gas.
5. Go to Calibrate → Calibrate Chrom Screen in the Geospect software.
6. Set the SENSITIVITY slider to -2000 on newer machines or 2000 on older machines.
7. Press AUTO ZERO (Chromatograph)
8. Introduce Test Gas into Geospect in accordance with the procedure listed in the Geospect manual.
9. Wait until the total gas peaks and press MANUAL SAMPLE.
10. Wait for the chromatogram to come out and appear in the LAST CHROMATOGRAM Window.
11. You can set the sensitivity in accordance with your company's policy by using the sensitivity slider.
12. Now look at the C2/C2 separation. You should see two peaks however because the gases come out of the column so close together C1 might not go all the way to the baseline before C2 starts to rise. Because of this the C2 peak can be taller than the C1 peak. This is now adjustable. See below.
13. If you do not see two distinct peaks for c1 and c2 you will need to lower your carrier air pressure slightly.

### ADJUSTING INDIVIDUAL PEAKS

As of Geospect release 11.62 you can adjust the sensitivity of **each individual gas** for output to log files and WITS. See instructions below:

1. Go to the Calibrate Chrom screen. Look at the Last chromatogram digital panel (not line chart window).
2. Click on the red C1, C2, C3, IC4, or NC4.
3. This will bring up a slider for that particular gas.
4. Slide the slider to the desired percentage of the output for that gas. You will see the numbers change in the Last Chromatogram Panel and in the Enhanced Panel. Note this will not change the original charts it just changes the digital data in the panels, your WITS output, and Geospect Exports.