**Quantify LC Data**

Methods: these are file batches that include data for the calibration curve. These data will be averaged across all similar points and a standard calibration curve will be built that can be used to compare run data against.

1. Open GC Translator
   1. Under *MSD ChemStation* select *Translate Data Files*
   2. *Browse* for files that need to be translated for quantation
   3. Select *Start Translation* and close when translation is completed.
2. Open Qualitative Analysis B.08
   1. At startup, *Open Data File* window: select all the calibration curve data file folders you translated
   2. Error window will appear, select *OK*
   3. In the *Data Navigator* panel select all of the data files
   4. Setup, Integrate MS (Method Editor), Agile 2 Chromatograms
   5. Extract Chromatograms, Type: other chromatogram, Detector ELSD 1
   6. Under *Actions🡪Extract all Non MS Chromatograms*
   7. Close Qualitative program after processing is completed
3. Open GC Quantitative Analysis
   1. *File🡪New Batch*
   2. Navigate to the folder with the data of interest (calibration curve data, sample data, etc)
   3. Provide name for new batch
   4. Calibration Curve Data
      1. Open batch
      2. Change *Type* to *Cal* and assign levels
         1. Levels for calibration curve data are assigned starting at level 1 being the lowest concentration
      3. *Method🡪New🡪New Method from acquired chromatographic data*
         1. *Browse* for, and *Open*, the largest concentration data file.
         2. Set *Start Time* to a time point after the solvent peak. (1min.)
      4. *Compound Setup*
         1. Highlght a compound from the generated list
         2. Right click and select *Add Column🡪RT*
         3. Comparing the compound retention times to known retention times and change *Names* of compounds
         4. Assign *Type* as *Target*
      5. *Retention Time Setup*
         1. Adjust if necessary
      6. *ISTD Setup*
         1. Adjust if necessary
         2. Add .5 before and after
         3. Stearic acid, right=(RT – 9), left=(14-RT), add to times and round to the nearest half.
      7. *Concentration Setup*
         1. Change *Units* as appropriate (mg/ml)
         2. Highlight a compound from the generated list and Right Click, *New Calibration Level*
            1. add a *New Calibration Level* for each of the levels available
            2. add a level for each calibration curve point
         3. Add concentration and level number as appropriate
      8. *Qualifier Setup*
         1. Adjust if necessary
      9. Advanced Tasks
         1. Signal ELSD
         2. Signal name “A”
         3. Integration Parameter Setup Int. Agile 2
      10. *Calibration Curve Setup*
          1. Adjust if necessary
      11. *Validate*
      12. *Exit*
          1. Select *Analyze* and *OK* to apply configuration to calibration curve data