

Exporting and Quantitating Chromatography Data from the ACCQPrep HP125 and HP150

Overview

The ACCQPrep can perform runs on an analytical scale (with injection volume as low as 10 µL) and records data that may be of interest for further quantification beyond the current scope of PeakTrak. PeakTrak is designed from a purely preparative purification standpoint. However, the recorded data run (.txt) file can be exported into any third-party chromatography processing and analysis software that has an import function. These software packages allow the user to perform additional post run processing, including peak picking and peak integration.

A software tool has been developed to facilitate the conversion of our run (.txt) files into .csv files. These .csv files are generally supported as a common import format into several third-party chromatography processing and analysis programs.

Required Programs and Files

- Run files transferred as (.txt) files from ACCQPrep instrument to a computer
- Data extraction program (available for download from www.teledynelabs.com)
- A third-party chromatography processing and analysis software.
 - Clarity (www.dataapex.com)
 - OpenChrom (www.openchrom.net)
 - Any other program that imports .csv files.

Procedure

1. Using a USB drive or network access to the instrument, copy the pertinent run (.txt) file from the ACCQPrep system. While viewing a run file, select the SAVE AS TEXT icon below the chromatogram (Figure 1).

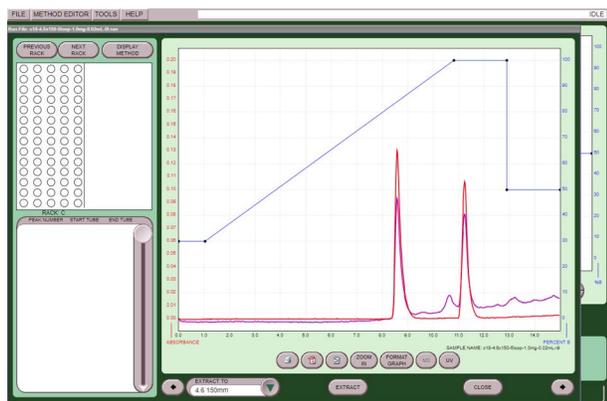


Figure 1: ACCQPrep run file viewer

2. Open the Data Extraction Program (Figure 2). Choose a detection technique to export, then select whether you would like the data displayed in terms of COLUMN VOLUME (CV) or TIME. Select GO. A file selection window opens (Figure 3).

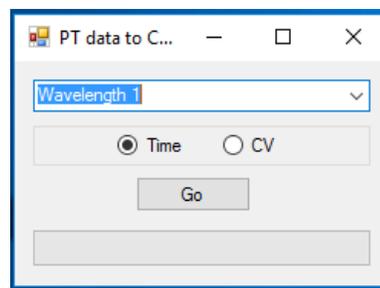


Figure 2: The Data Extraction Program window

3. Select a run file or files to convert. Click OPEN to begin the conversion. The files are imported into a CSV folder on the desktop.

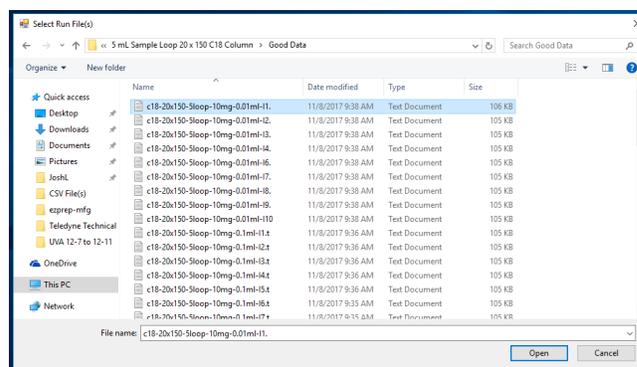


Figure 3: The SELECT RUN FILE window

4. Open the imported .csv file or files in a third-party chromatography software program (described below).

Opening Files in Clarity

1. Start Clarity and log in. The INSTRUMENT window opens.

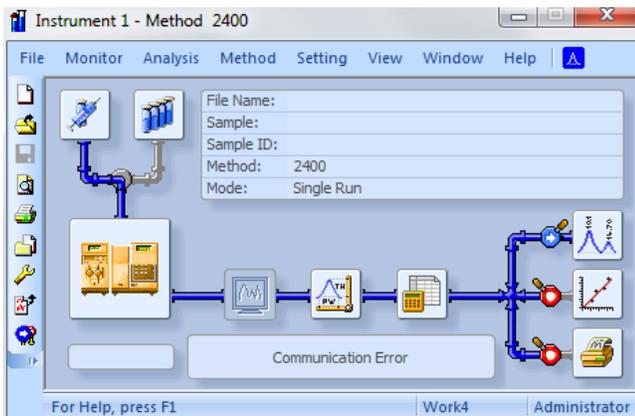


Figure 4: The Clarity program

2. Open the CHROMATOGRAM window by clicking its icon.
3. Go to FILE > IMPORT CHROMATOGRAM. The OPEN FILES TO IMPORT dialog opens. Select the CSV (*.csv) file you would like to open (Figure 5).

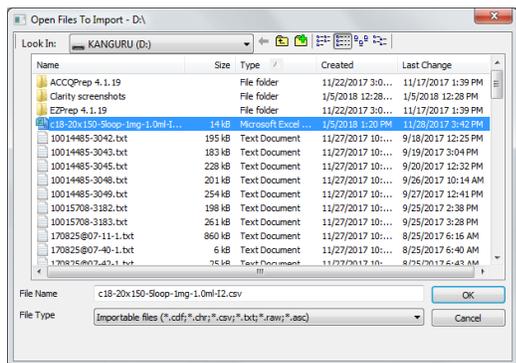


Figure 5: OPEN FILES TO IMPORT dialog

4. Click OK. The IMPORT TEXT FILES window opens. The settings on this window should not need to be changed. An example is shown in Figure 6.

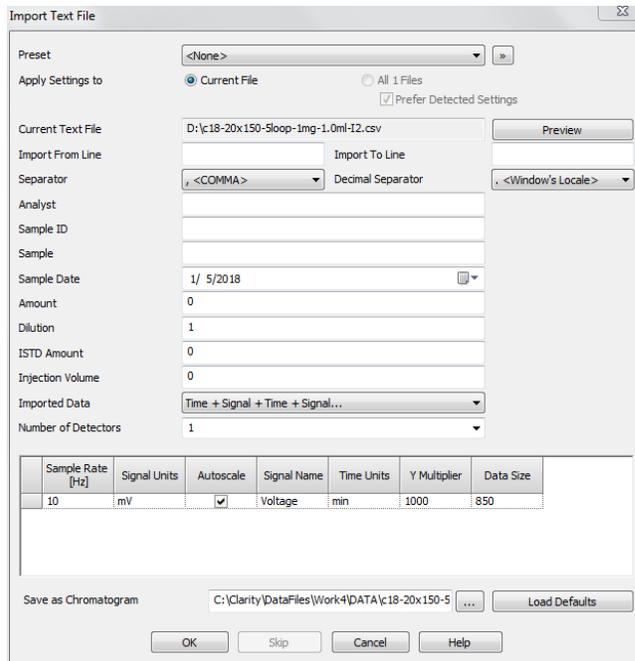


Figure 6: Import settings

5. After the chromatogram loads, the software processes and integrates your data, producing a data table shown in the lower left quadrant of the Chromatogram window (Figure 7).

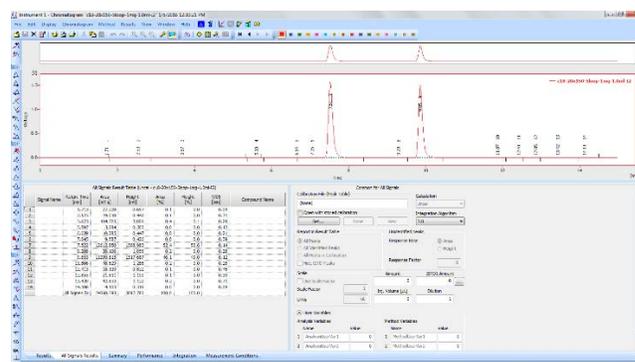


Figure 7: Chromatogram window with data table

6. You can change your integration parameters by going to METHOD > INTEGRATION. This replaces the data table in the lower left quadrant with the integration table.

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