

## Technical Note

# Working with PDA Data

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ACD/ChromManager, in conjunction with ACD/UV-IR Manager, has the ability to work with 3-Dimensional data from Diode-array detectors (PDA or DAD). UV-Vis curves can be extracted to form spectral libraries, and 2D chromatograms can be extracted, integrated, structures attached to the peaks, and the results stored in a database.

### Extracting Spectra from DAD Data

In order to extract spectra from 3D chromatograms, first enable the Chromatogram Window. Then click **Combine** and select the signal area. Next, select the background areas to subtract. Finally, click **OK**, and the spectrum will be extracted and enabled for processing, assignment, reports and databasing.

### Extracting the Total Chromatogram

The total signal of the sample is shown in the active chromatogram window for 3D data. This chromatogram can be extracted and manipulated just like a single wavelength chromatogram. Simply select the Chromatogram Window and choose **Chromatogram, Export to ChromManager**. The chromatogram is now available for processing, assignment, reports, and databasing.

### Extracting Single Wavelength Data

When deciding on wavelengths to use for analysis without PDA detectors, it can be useful to view the chromatogram corresponding to a single wavelength. In order to extract this chromatogram, it is currently necessary to use tools from the ACD/MS Manager toolset. Select the chromatogram window and click **Masschrom**. Now select the wavelength of choice, and click **Run**. The software will produce the chromatogram at that wavelength. You can now work with this chromatogram the same way that you would with regular 2D data.