News And Updates

Chenomx Core Functions – The Profiler

2 DECEMBER 2015 ADMIN COMMENTS OFF
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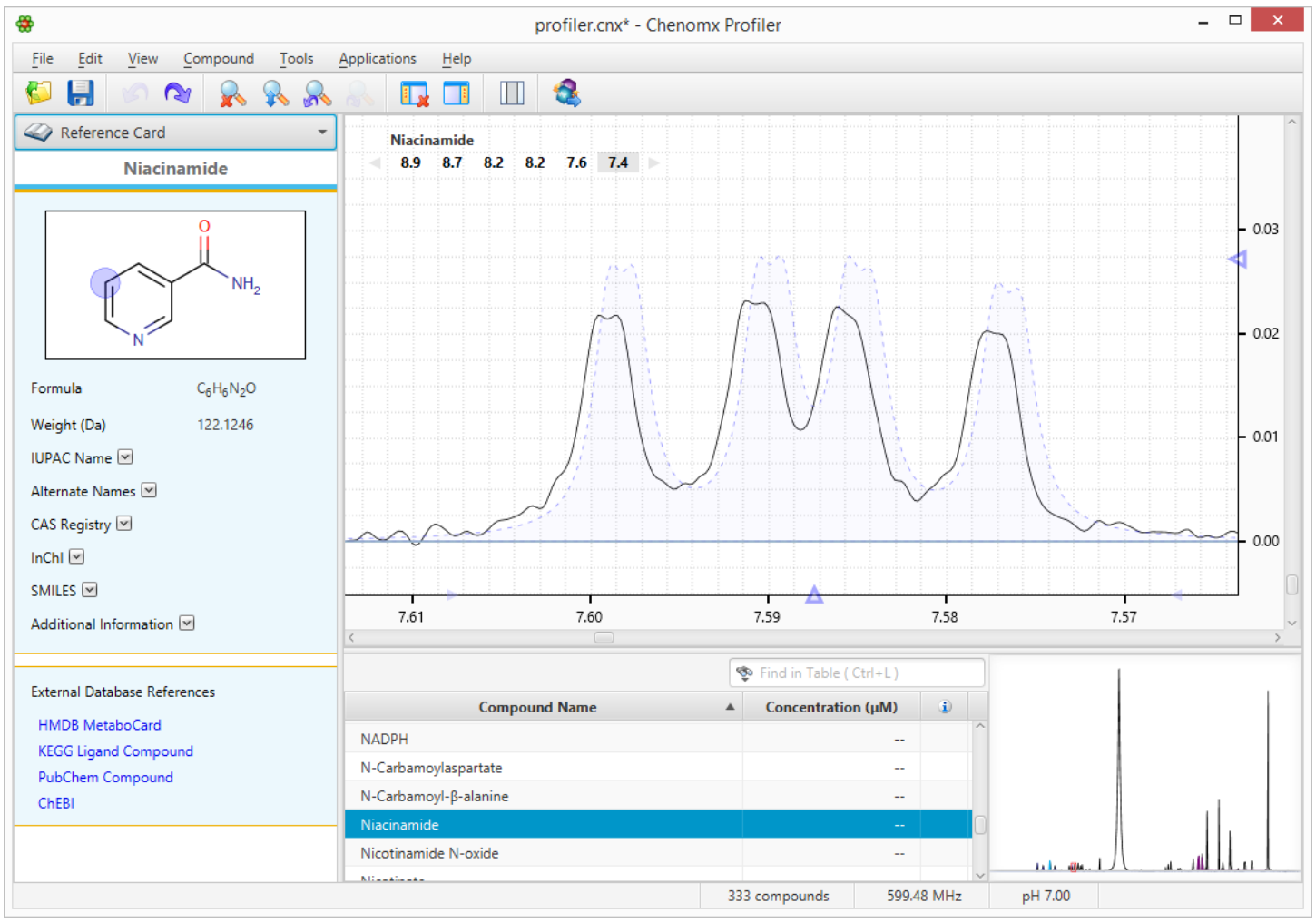
In this series, we explore some of the core functions of Chenomx Suite. In this edition, we're looking at the "Profiler" module. The Chenomx Profiler is used to identify compounds and quantify their concentrations based on data in an NMR spectrum. Key features include:

- Comprehensive pH sensitive reference compounds
- Computer assisted metabolite assignment and fitting
- Spectral binning
- Spectral overlays
- Multiple file concentration exports
- Detailed reference resources for library compounds

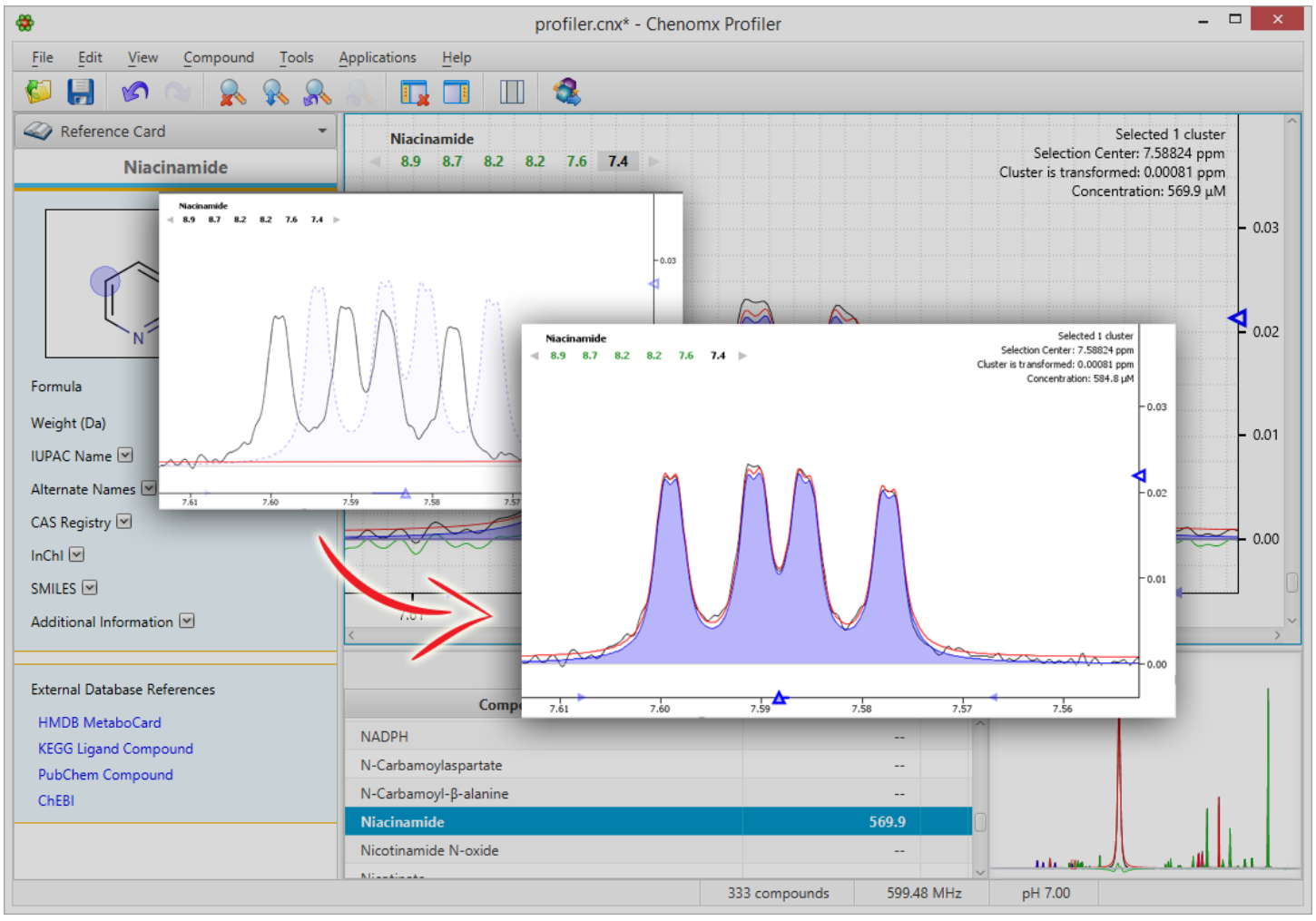
The 'Profiler' module lets you identify and quantify the contents of your mixture spectrum by comparing it to a compound library with hundreds of reference signatures.



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_1.png)

Analysis Tools

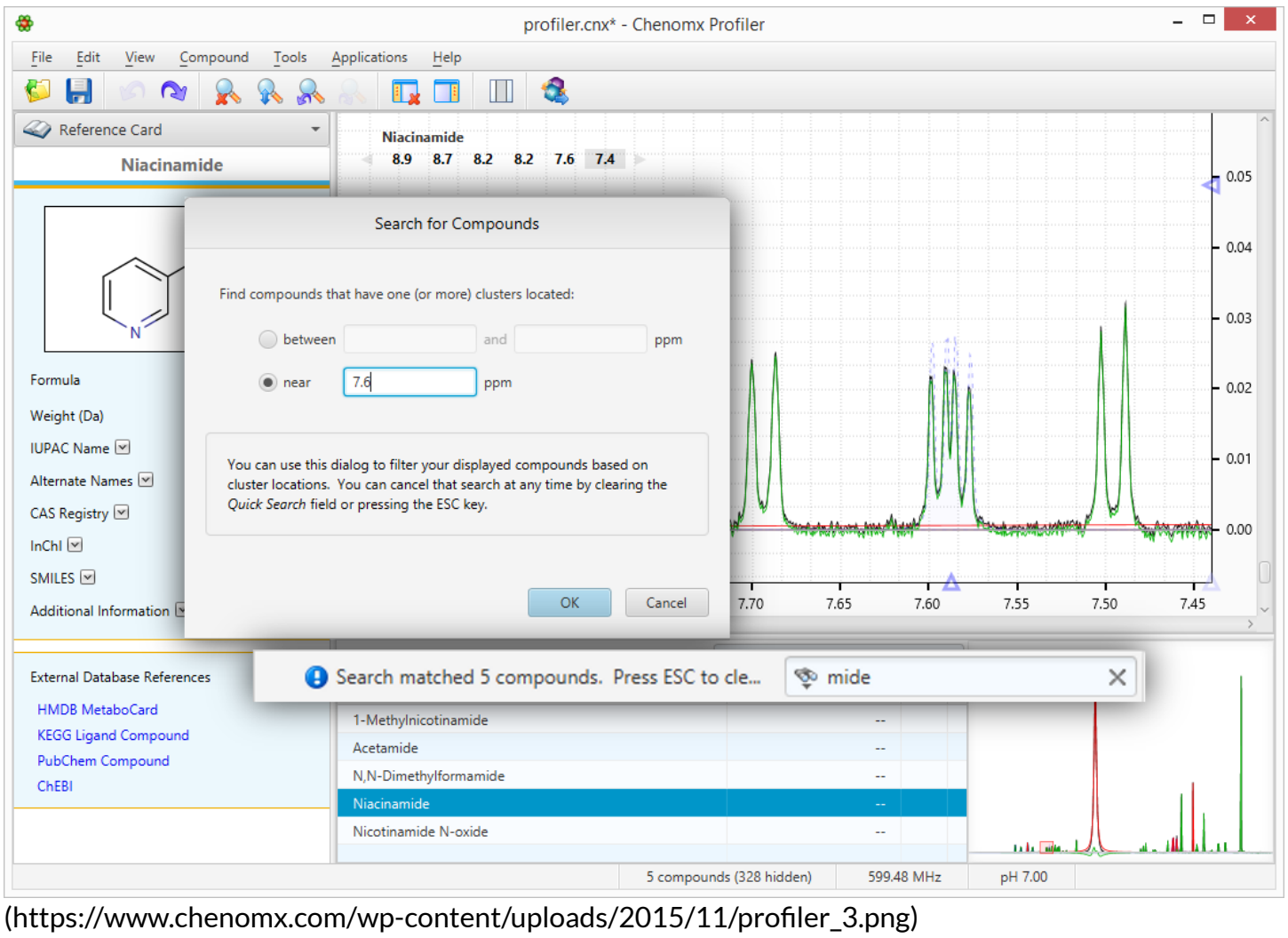
You can obtain the concentration of compounds in your mixture by matching Chenomx's compound signatures to the peak shapes in your spectrum.



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_2.png)

Search Tools

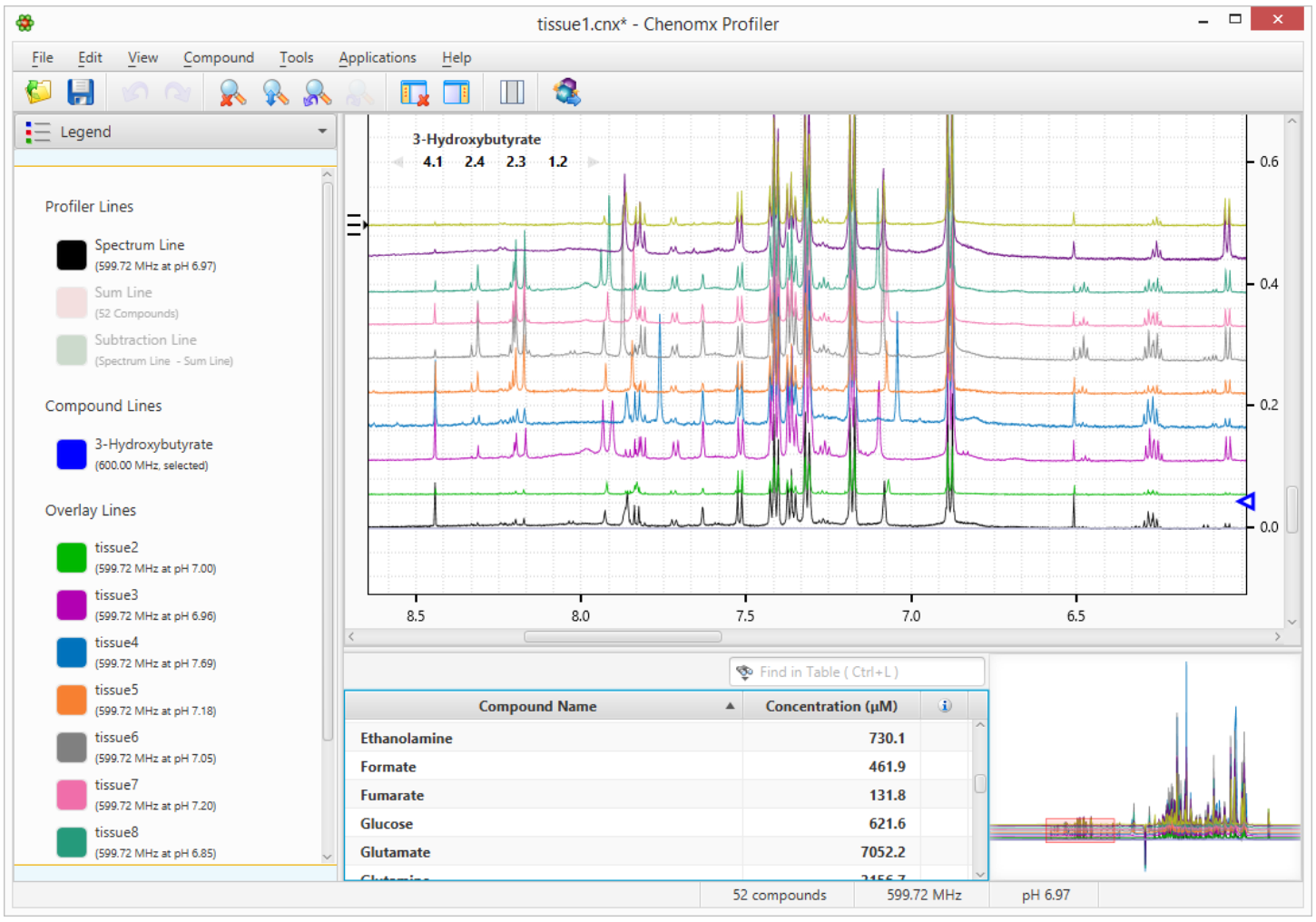
Profiler contains a variety of tools to help you search through all available reference signatures and identify the components in your mixture.



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_3.png)

Spectral Overlays

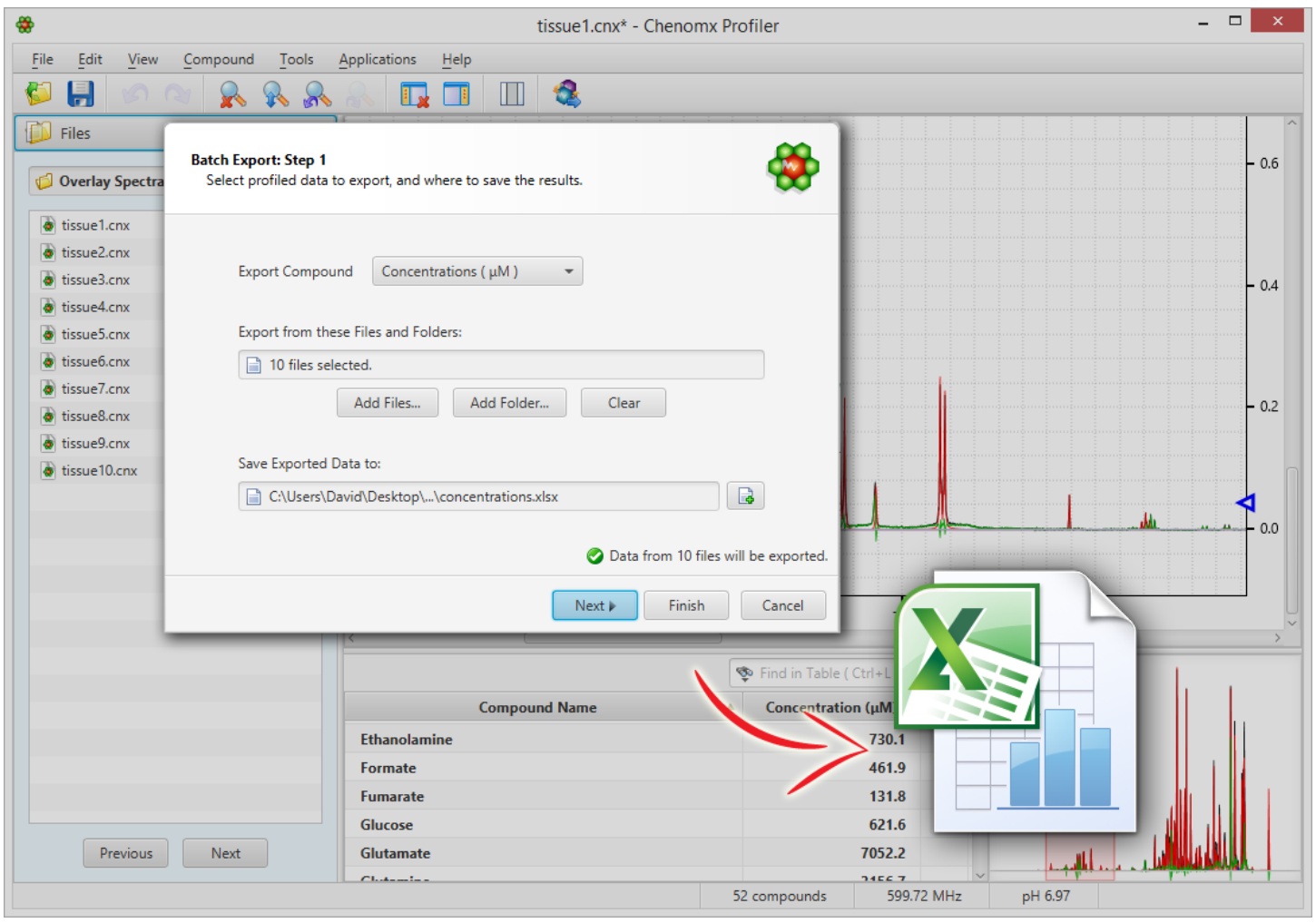
You can use 'Overlay Lines' to compare your own spectra with each other. You can also give these overlaid lines an offset with the stacking feature.



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_4.png)

Data Export

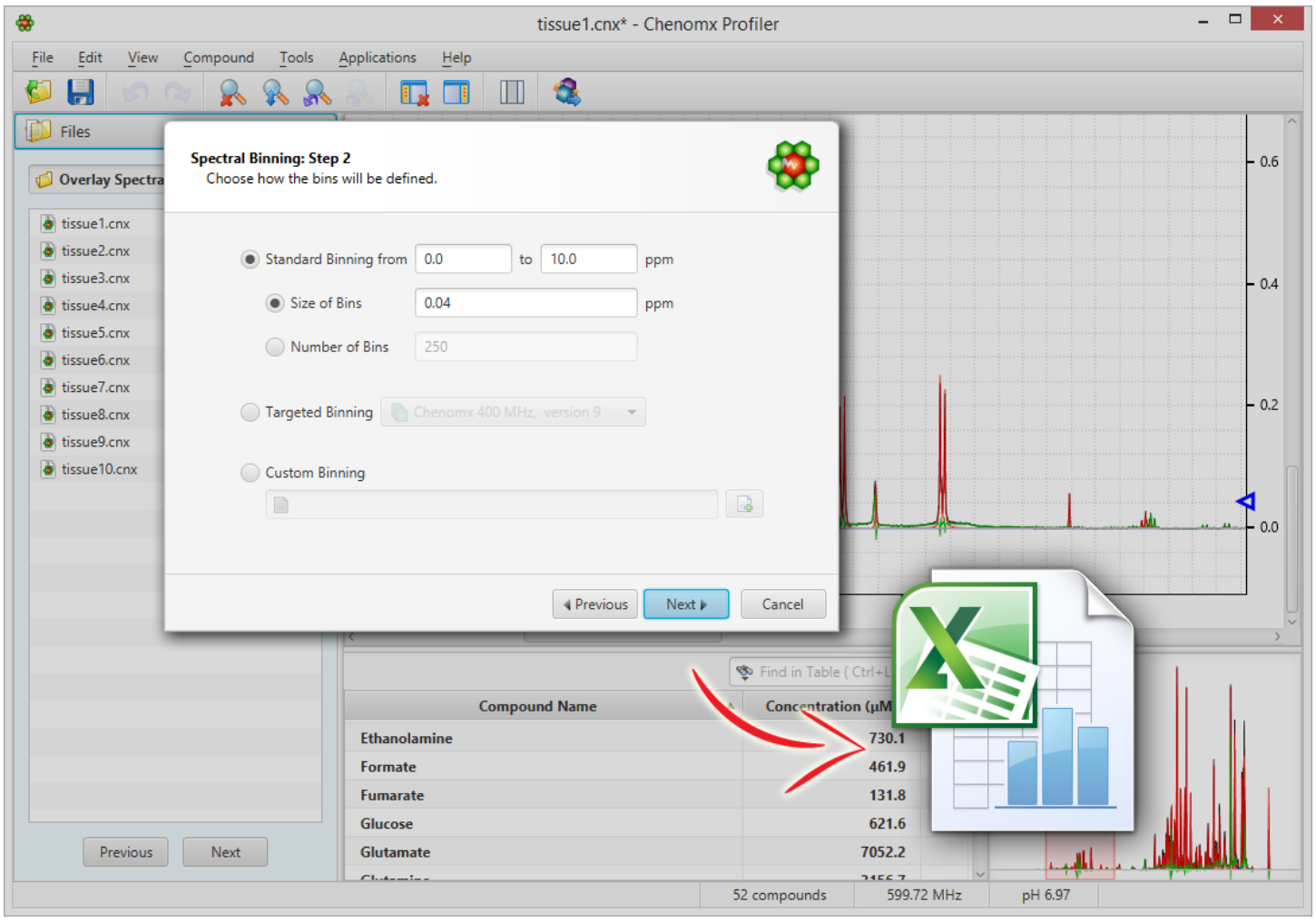
Once you're finished profiling, it's easy to export your quantitative data for further analysis.



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_5.png)

Spectral Binning

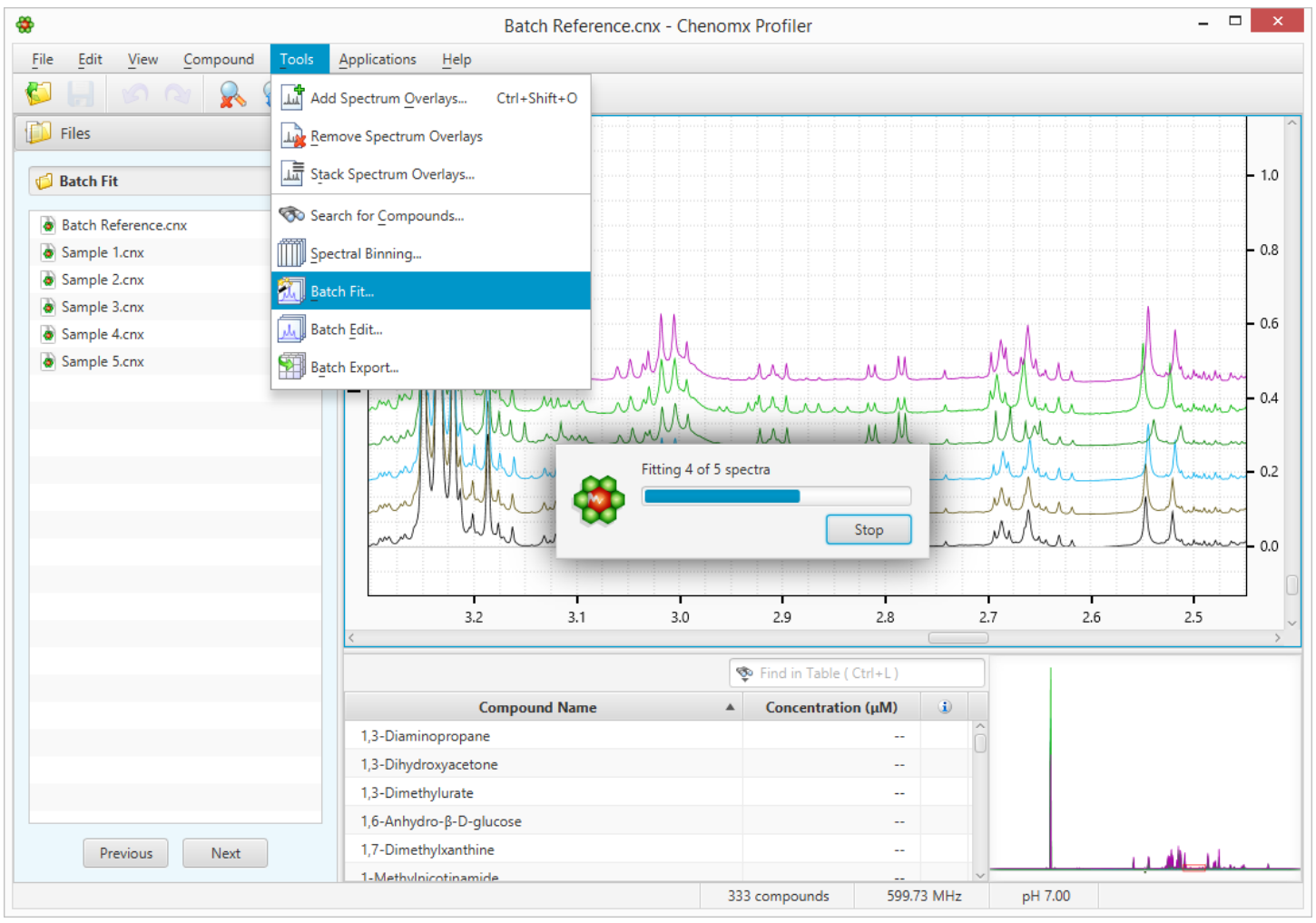
Profiler offers a number of binning options, including spectral binning (standard), targeted binning (based on a compound library), or residual binning (based on unmatched regions.)



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_6.png)

Batch Fit

Once you've assigned metabolites to one spectrum, you can use the batch fit tool to autofit multiple spectra with multiple metabolites.



(https://www.chenomx.com/wp-content/uploads/2015/11/profiler_7.png)

Thanks for reading and learning more about Chenomx. Check out our free demo (https://www.chenomx.com/our-software/our-free-demo/) and learn more about all the features included in our software.