

MASsoft Professional

- An overview of new features including:
- Automatic peak identification and spectral analysis
 - 3D data plots



Windows® MASsoft Professional PC software new features

Three new key features:

- Automated spectral analysis providing peak identification and composition analysis.
- Spectral simulation mode to compare predicted analysis spectrum with the recorded spectrum.
- 3D data plot for viewing mass vs. electron energy intensity.



Automatic peak identification and automatic analysis

Tools for analysis include:

- Library groups edited and selected to be appropriate for the application.
- Peak identification colour coded to indicate library match.
- Spectral simulation and subtraction tools providing difference spectra for comparison to recorded data.
- Parameter control to set thresholds for peak inclusion.

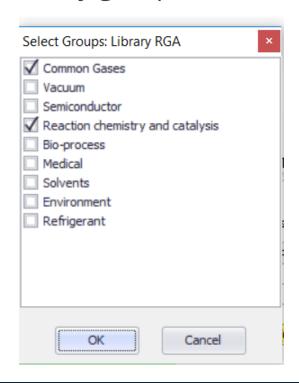


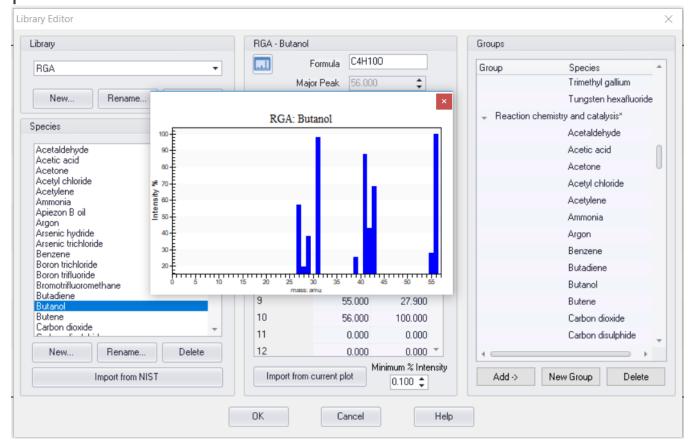
Library groups – enables application specific peak identification

Users select and edit library groups to

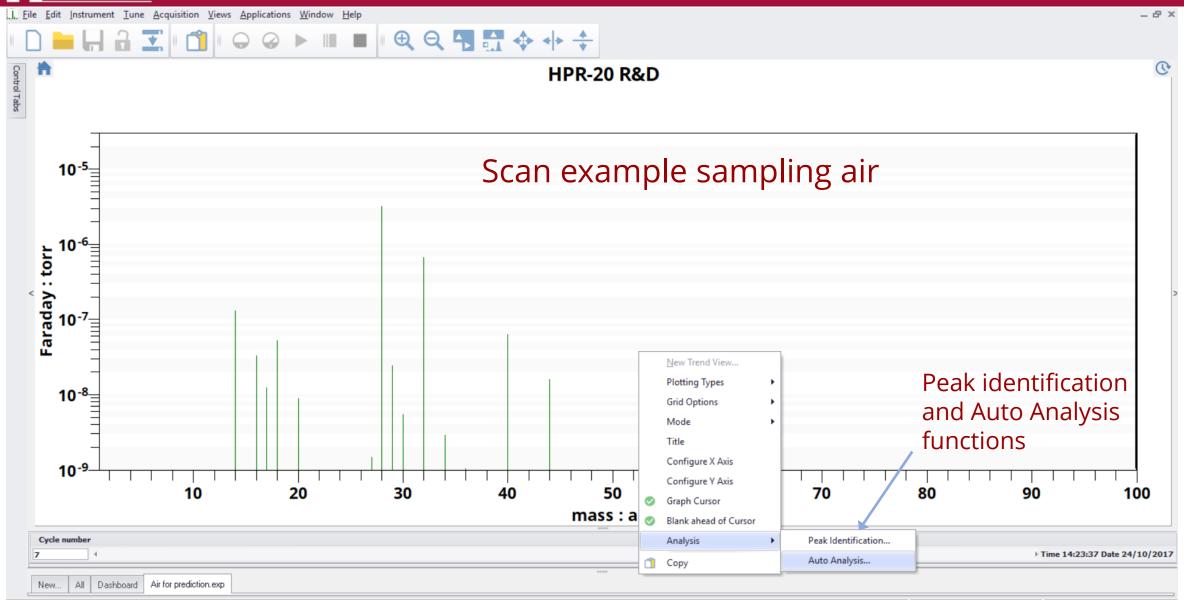
match the analysis application.

Default library groups include:

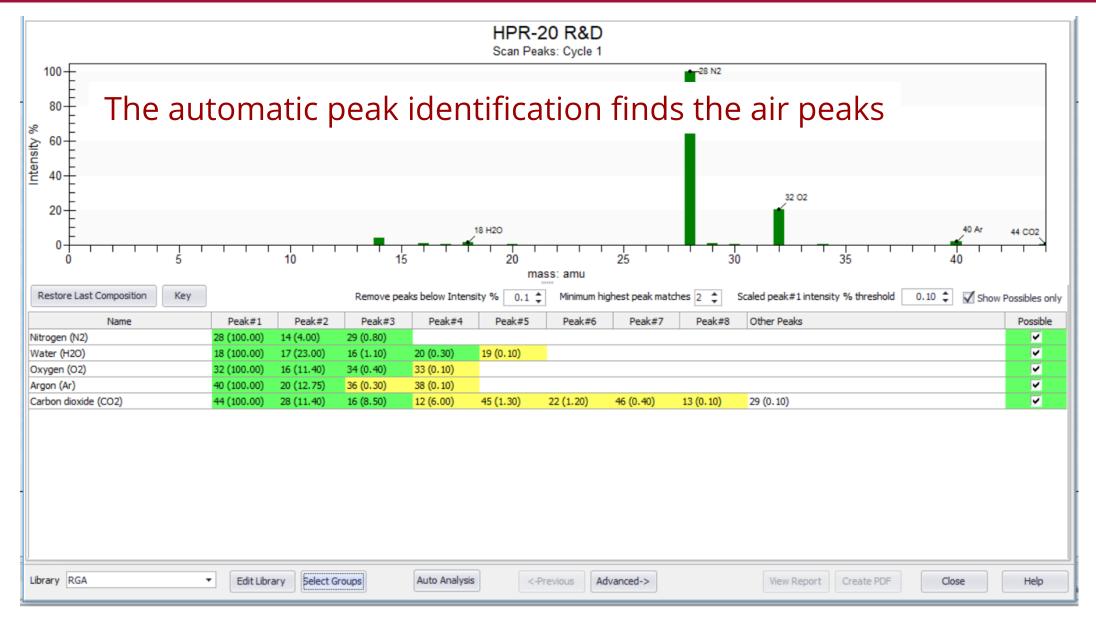














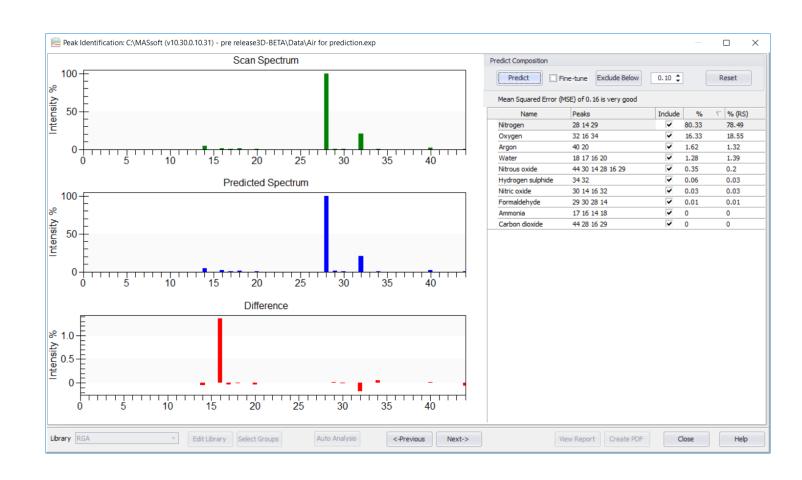
Recorded, predicted and difference spectra

Peak identification and automatic analysis:

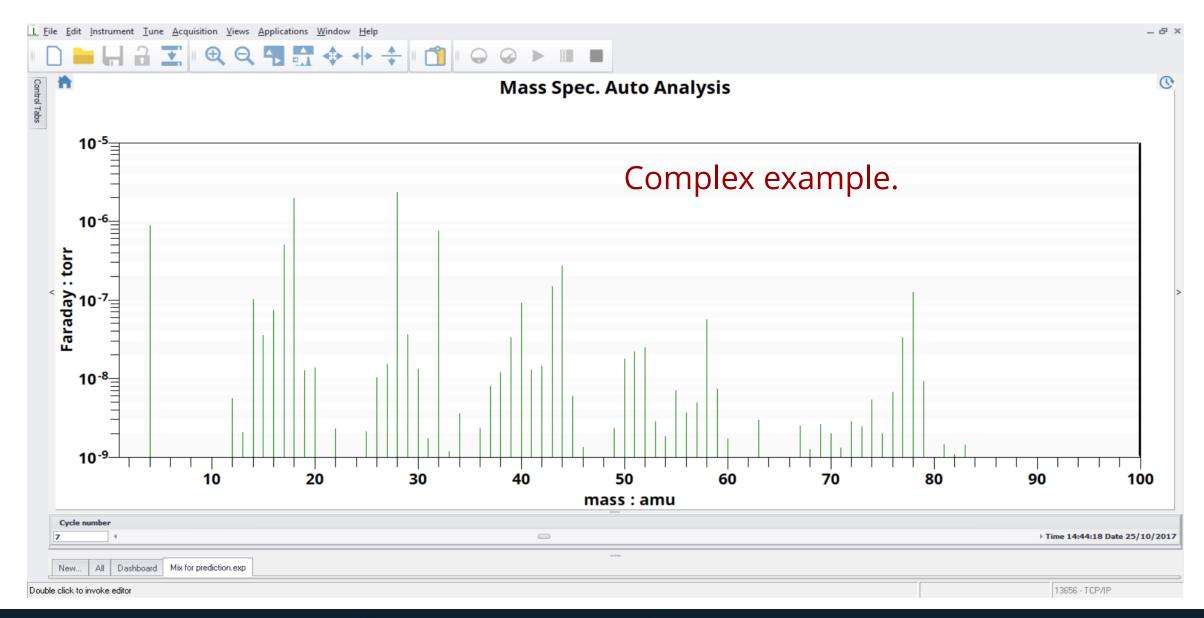
MASsoft includes predictive genetic algorithms to evaluate spectra, identify species present and calculate the gas composition.

The software includes user adjustable parameters to enhance the match including:

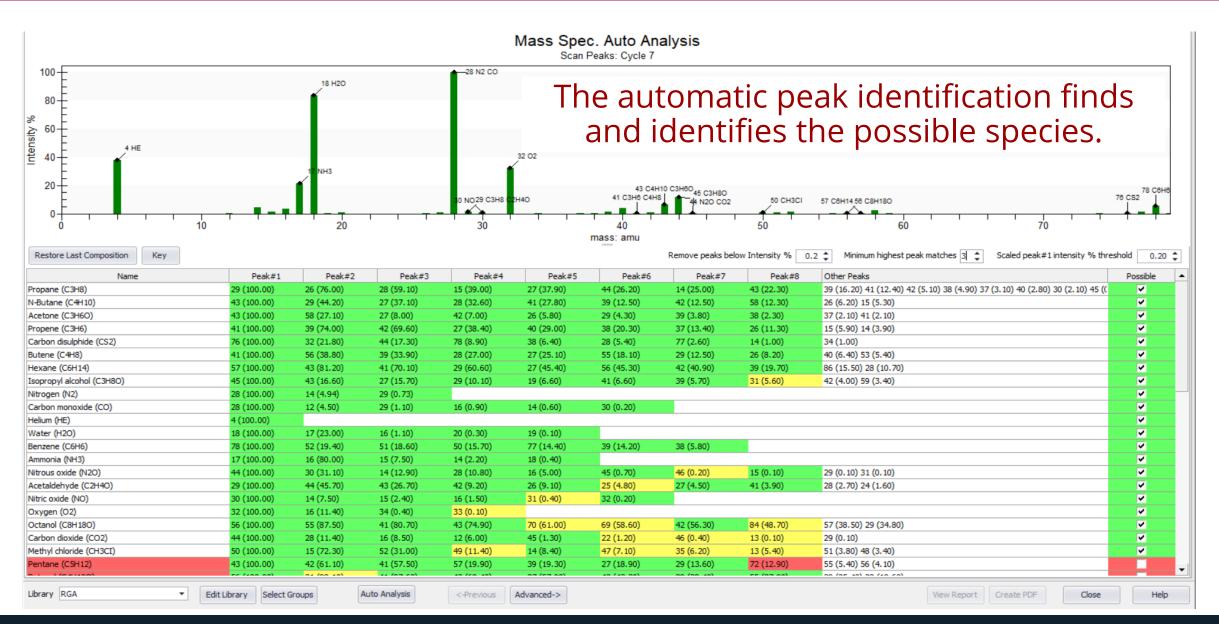
- Number of peaks matched.
- Ignore small peaks to reduce large number of hits.
- Scaled peak intensity.













Analysis Report - PDF

The report includes:

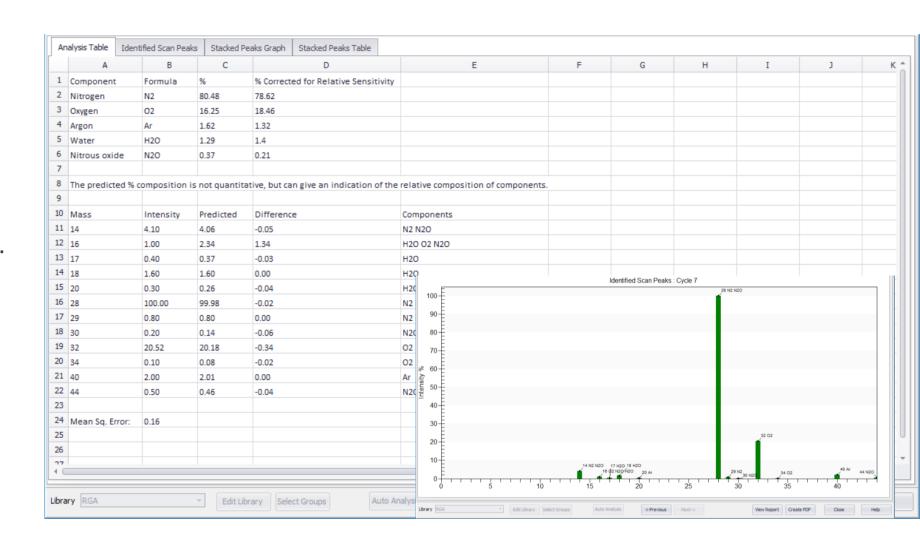
Species with % composition.

Identified peaks in the recorded data.

Stacked peaks in graph/table.

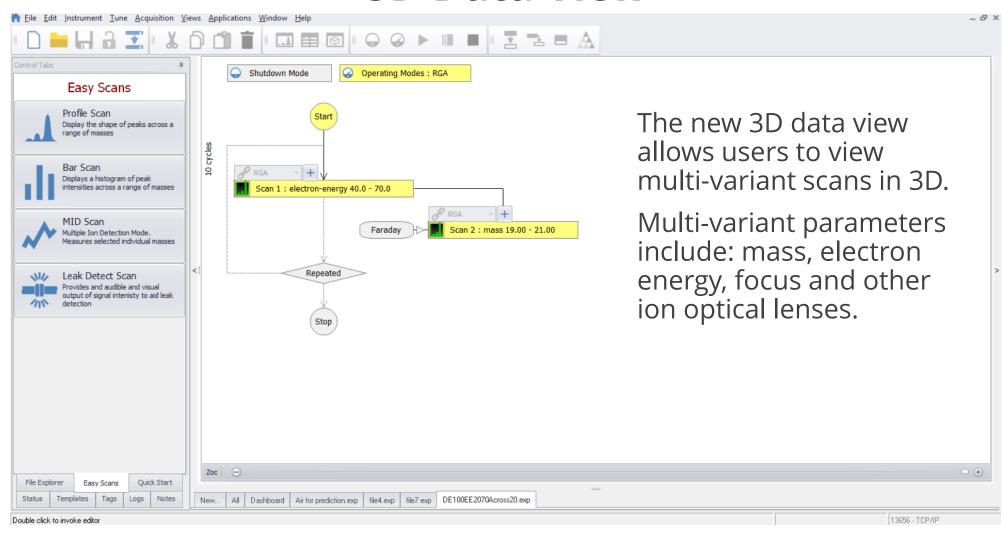
Accuracy of the analysis. The mean square error value is reported. This is a confidence factor for the accuracy of the analysis.

The analysis report is exported as a PDF.





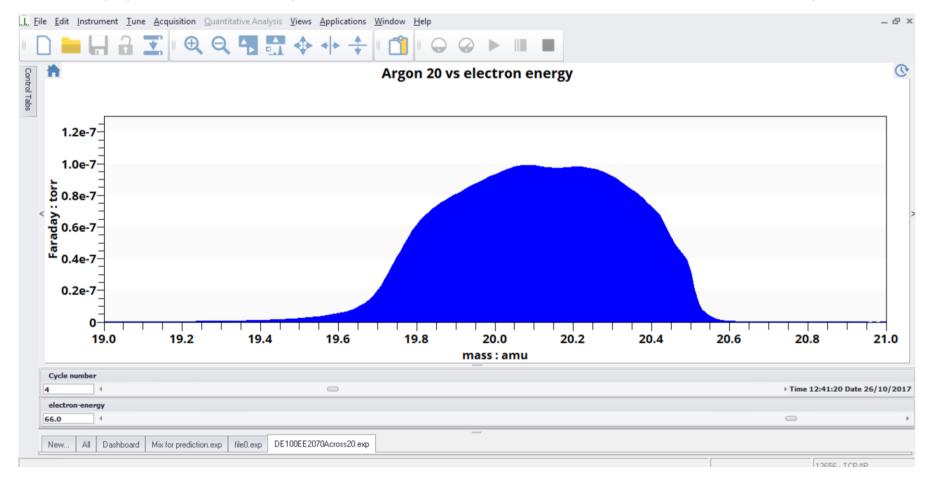
3D Data View





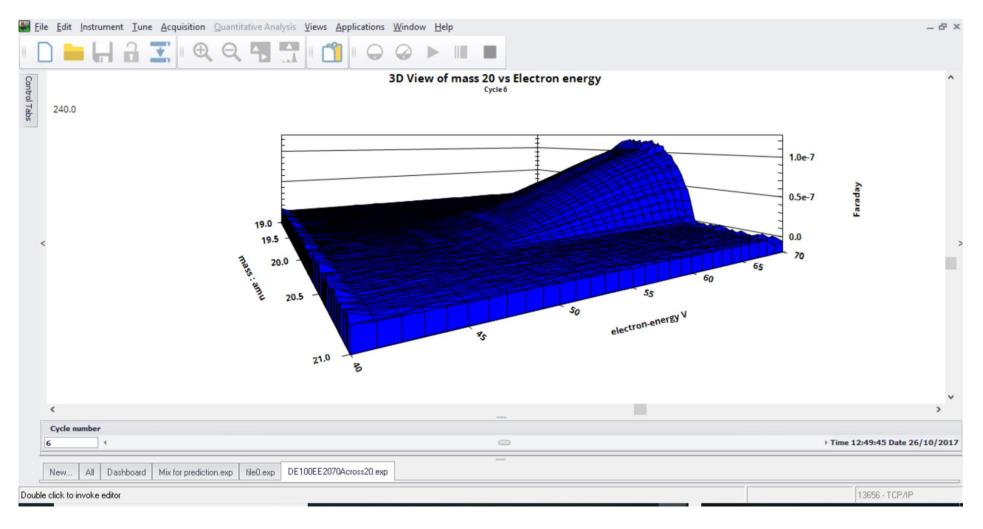
3D data - Argon mass 20 vs electron energy

APSI –MS appearance potential soft ionisation mass spectrometry





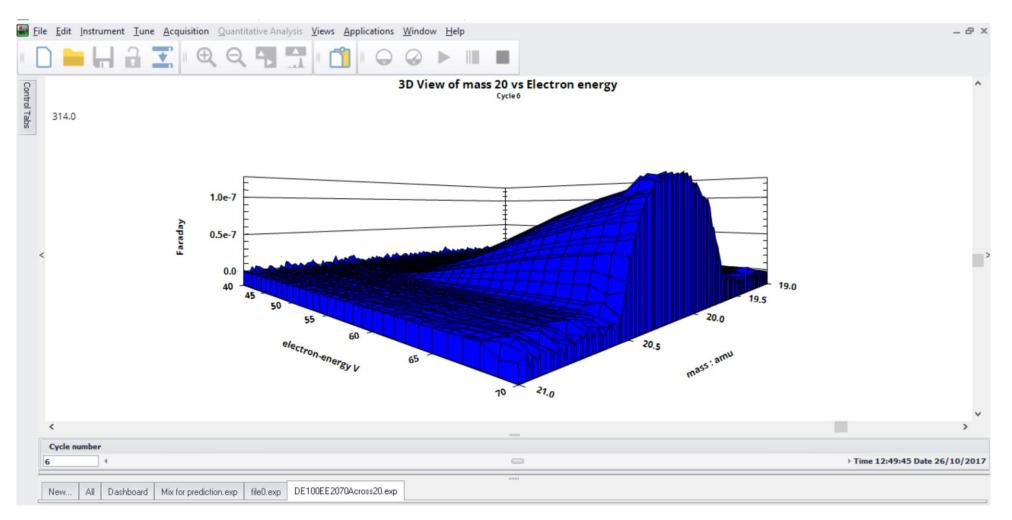
3D View of Argon mass 20 vs electron energy



APSI-MS:
Appearance
Potential Soft
Ionisation
Mass
Spectrometry



3D View of Argon mass 20 vs electron energy - rotated



APSI-MS:
Appearance
Potential Soft
Ionisation
Mass
Spectrometry