SHIMADZU
Excellence in Science

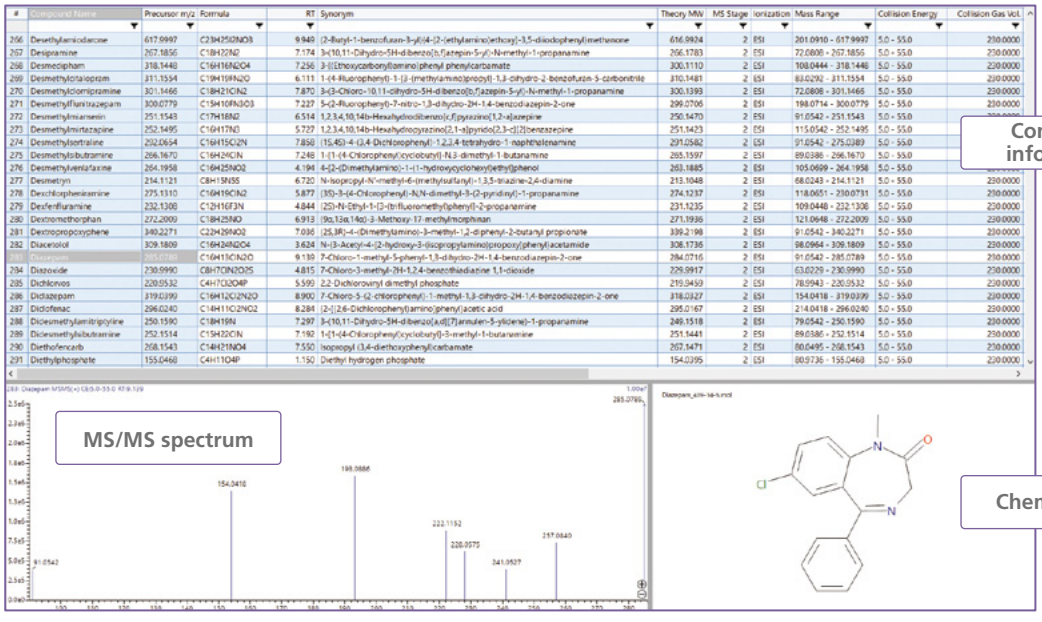
For LabSolutions™ LCMS

High Resolution Accurate Mass Library for Forensic Toxicology Ver. 2

Perform forensic toxicology screening for drugs of abuse, psychotropic drugs, pharmaceuticals, pesticides, and natural toxins using this high-resolution accurate mass database.

MS/MS Spectra for over 1,900 Toxicological Substances

The High Resolution Accurate Mass (HRAM) Library includes two MS/MS spectral libraries. Each library is built using two different separation conditions and is suitable for targeted or non-targeted screening of drugs of abuse, psychotropic drugs, pharmaceuticals, pesticides, and other compounds of toxicological interest.



Example of Library Entry

Each library contains key information critical to accurate identification of compounds, including precursor ion *m/z*, molecular formula, and monoisotopic mass, as well as spectral acquisition parameters, such as collision energy, ionization, and retention time.

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Simple Data Analysis Using LabSolutions Insight Explore™

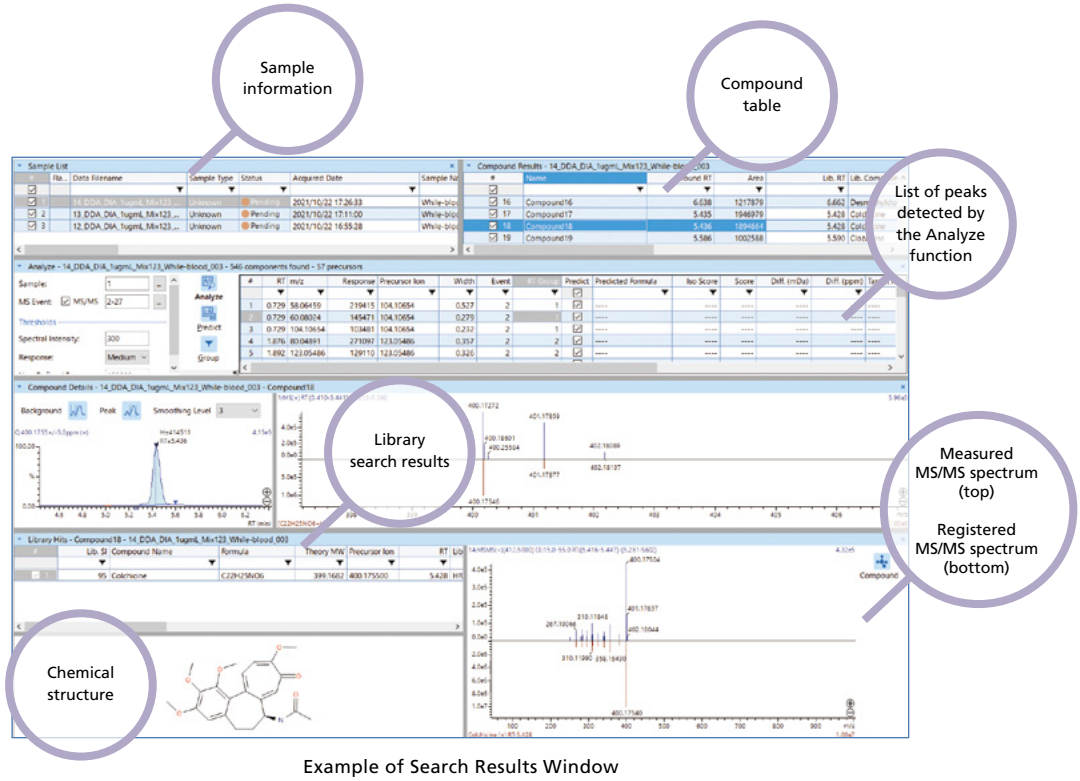
Data acquired with a Shimadzu QTOF system can be analyzed easily using LabSolutions Insight Explore software. Library searching and compound identification can be performed in just three steps. Search results are displayed in a format that is visually easy to understand.

Procedure for Compound Identification by Searching the Library

STEP 1 Use Insight's Analyze function to detect peaks in the mass spectrum and register results in the compound table.

STEP 2 Search the MS/MS library for spectra with similarities to detected compounds.

STEP 3 Check library search results along with library similarity score and chemical structure.



Example of Search Results Window

Remarks and Precautions

1. LabSolutions LCMS Ver. 5.128 or later and LabSolutions Insight™ Ver. 4.2 SP1 or later are required.
2. This library is intended for research use only. It may not be used for clinical diagnostic applications.

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