

Multi-Analyte Quantitation Software

LabSolutions Insight



LabSolutions Insight™

Faster Data Review for Dramatically Higher Productivity

Mass spectrometry laboratories can acquire thousands of chromatograms per day. Insight provides tools to streamline data review and focus on the chromatograms that need critical attention. Insight automatically applies your peak detection criteria to data and flags any deviations, allowing you to analyze data more efficiently. 1.6.2



Reduce your data review bottleneck with Insight's customizable review screens and automated QA/QC flagging. Combined with Shimadzu's ultra-high-speed acquisition, a complete solution is offered to the high-throughput mass spectrometry laboratory.

By using LabSolutions Insight with Shimadzu's GC/MS (/MS) and LC/MS (/MS), the time needed to acquire and analyze data can be significantly shortened and quality data can be easily created.

Furthermore, by using a combination of databases and application-specific method packages, you can easily perform measurement and data analysis without optimizing analysis conditions.

Lastly, LabSolutions Insight can be equipped with a wide range of options, such as compound identification workflows, peak detection using AI, and special software that enables compliance with environmental regulations.

› Intuitive Operation

An easy-to-use and configurable interface allows new users to be productive quickly.

› Automated QA/QC Flagging and Peak Comparison

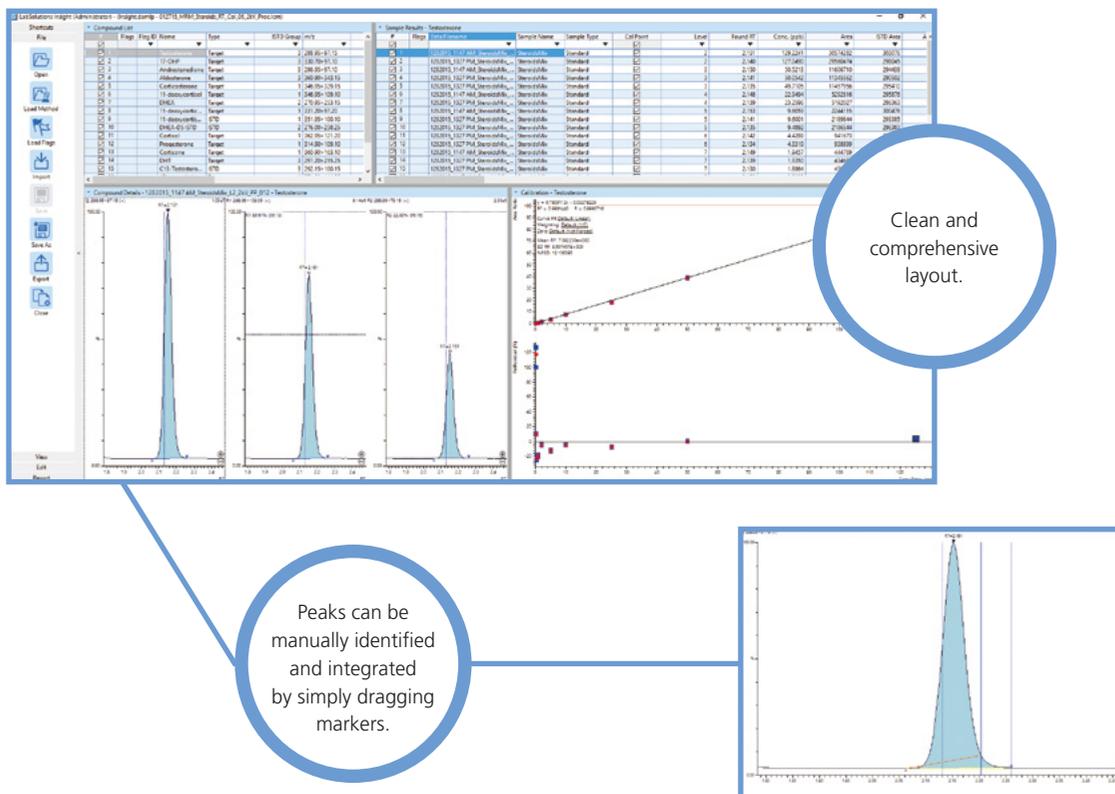
Insight contains multiple QA/QC flagging criteria for retention times, reference ion ratios, concentration limits, and more. Compare all peaks against a reference peak or reference ions.

› Data Integrity

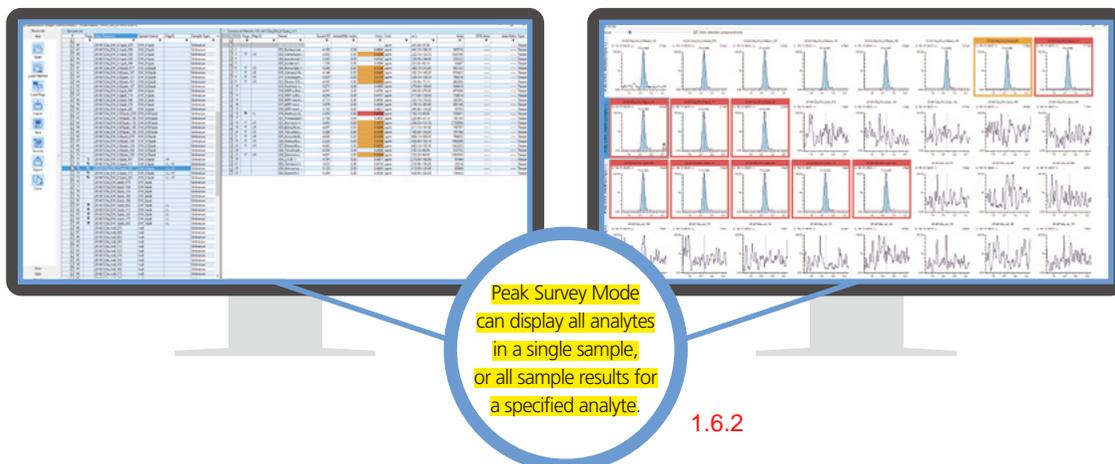
LabSolutions Insight is compatible with LabSolutions™ DB, enabling traceability, audit trail, and user management capabilities.

Intuitive Operation

Create custom configurations accommodating your unique requirements. Generate intuitive and meaningful reports, reduce costs, and improve the efficiency of your data processing environment.



Configurable layouts can be displayed on multiple monitors. Switching quickly between sample centric and compound centric views enables analysts to work according to their preference.



1.6.2

Automated QA/QC **Flagging** and Peak Comparison

1.6.2

Highlight Peaks According to Your Limits

Insight contains over **75 user-controlled QA/QC flagging criteria** for retention times, reference ion ratios, concentration limits, and more. Configurable color-coding enables highlighting results that are near or outside of limits.

1.6.2 Results that approach or exceed your limits are automatically color-coded.

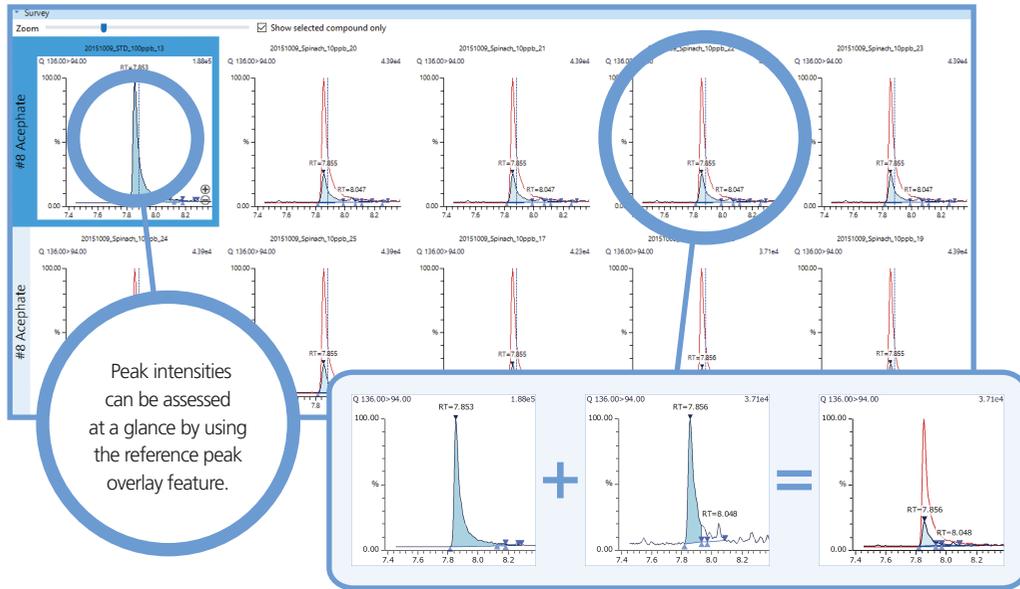
Results can be filtered with a single click to show only outliers.

Warning Caution Caution Warning
0.2 ppm 0.3 ppm 0.52 ppm 0.55 ppm

The image displays two screenshots of a software interface. The top screenshot shows a data table with columns for Sample ID, Sample Name, Flag ID, Sample Type, and Concentration Results. A callout points to a row where the concentration is 0.2542 ppm, which is highlighted in red. Below the table is a grid of chromatograms, with some peaks highlighted in red and others in yellow. The bottom screenshot shows the same interface with a callout pointing to a 'Filter' button in the top-left corner. Another callout points to a row in the table where the concentration is 0.2542 ppm, which is highlighted in red. A legend at the bottom shows four colored boxes: yellow (Warning), orange (Caution), red (Caution), and yellow (Warning), with corresponding concentration values: 0.2 ppm, 0.3 ppm, 0.52 ppm, and 0.55 ppm.

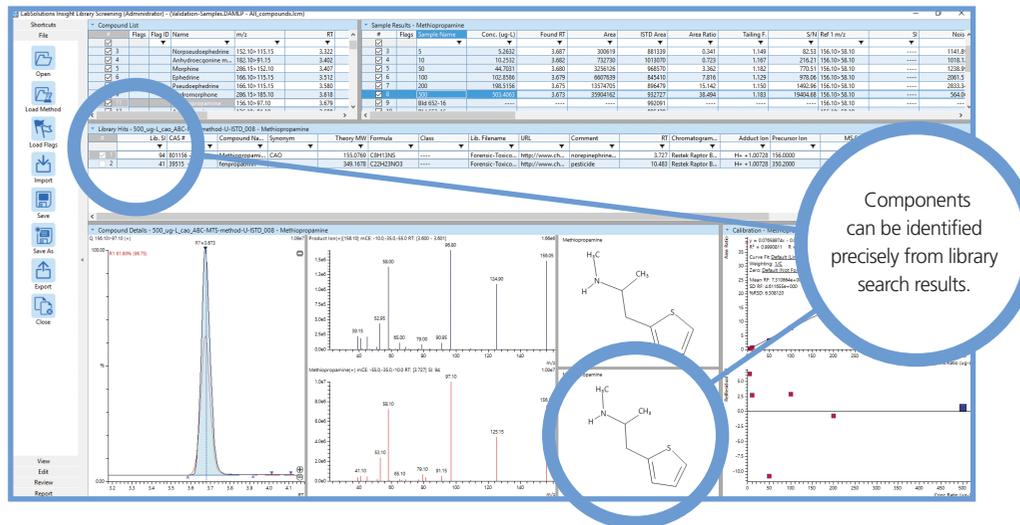
Peak Data Comparison

Insight allows the user to view many chromatograms at once. To make data review easier, each chromatogram can be overlaid with a reference peak, such as the reference ion chromatogram or a low-level standard. **1.6.2**



MS/MS Libraries and Compound Identification

Optional LabSolutions Insight Library Screening software* offers MS/MS library search capabilities. Instrument parameters and MS/MS library spectra are available to deliver faster data acquisition, higher data quality, and enhanced identification. In addition, LabSolutions Insight Library Screening software offers easy viewing of your compounds of interest, including structural information, retention time, and library similarity score.

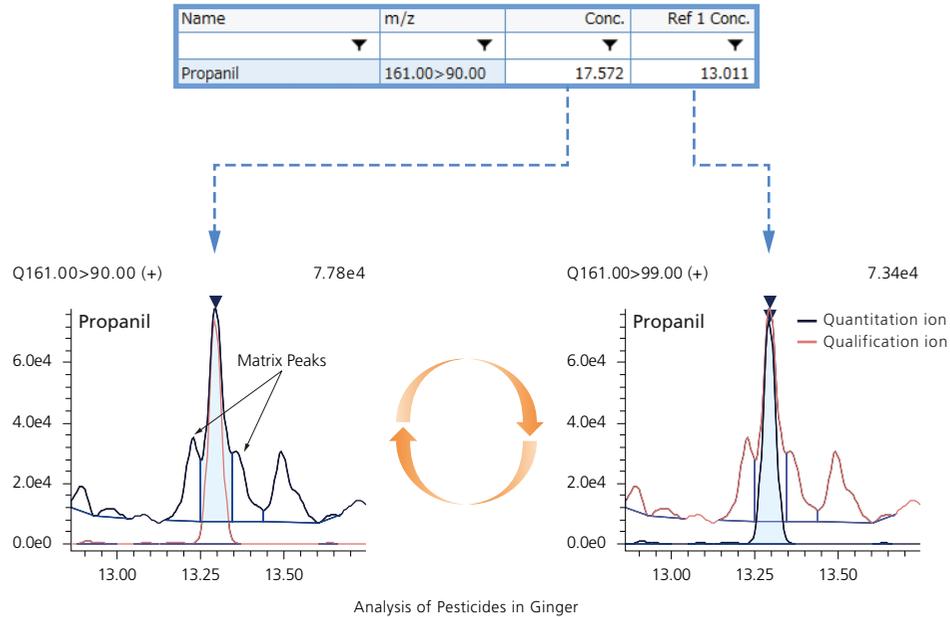


*By checking the library search result, you can quickly identify the compound.

Easily Control of Quantitation and Reference Ions

1.6.2

Analysts can update retention times and reference ion ratios quickly and easily from a single standard or a group of standards. It is also **easy to reassign quantitation ions** as needed for method development purposes or because of unexpected matrix interferences.



Concentration Summation for Isomers

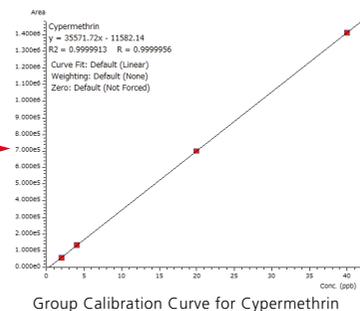
Some methods require the summation of multiple peaks to be reported as a single value. Insight easily allows compound grouping, as in the case of pesticide isomers below.

#	Name	m/z	Group #	Area	Conc.
<input checked="" type="checkbox"/>	'BHC'				
<input checked="" type="checkbox"/> 49	alpha-BHC	180.90>144.90	2	1990616	9.72734
<input checked="" type="checkbox"/> 61	beta-BHC	180.90>144.90	2	1588946	174.79865
<input checked="" type="checkbox"/> 68	gamma-BHC (Lindane)	180.90>144.90	2	1733257	9.61008
<input checked="" type="checkbox"/> 84	delta-BHC	180.90>144.90	2	996980	9.81085
<input checked="" type="checkbox"/> 389	BHC	----	2	6309799	203.94692

Group Quantitation of α , β , γ , and δ -BHC (Concentration Sum)

#	Name	m/z	Group #	Area	Conc.
<input checked="" type="checkbox"/>	'Cypermethrin'				
<input checked="" type="checkbox"/> 355	Cypermethrin-1	163.10>127.10	1	549034	10.14215
<input checked="" type="checkbox"/> 357	Cypermethrin-2	163.10>127.10	1	184422	9.49396
<input checked="" type="checkbox"/> 358	Cypermethrin-3	163.10>127.10	1	239856	9.58511
<input checked="" type="checkbox"/> 361	Cypermethrin-4	163.10>127.10	1	402696	9.47377
<input checked="" type="checkbox"/> 388	Cypermethrin	----	1	1376009	39.00826

Group Quantitation of Cypermethrin (Group Calibration Curve)



Conditions

Operating system : Microsoft® Windows® 10 Professional/Microsoft® Windows® 11 Professional

Workstation software : GCMSsolution™ Ver. 4.54 or later

LabSolutions LCMS Ver. 5.123 or later

LabSolutions GCMS Ver.5.125 or later

LabSolutions DB LCMS Ver.6.123 or later

LabSolutions DB GCMS Ver. 6.125 or later

LabSolutions CS Ver. 6.122 or later

Compatible Models

GCMS-TQ™ series, GCMS-QP series

LCMS-9050, LCMS-9030 , LCMS-8060(NX), LCMS-8050, LCMS-8045,

LCMS-8040, LCMS-8030, LCMS-2050, LCMS-2020

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