

## Thermo Scientific QuanLab™ Forms 2.5 Software



Thermo Scientific  
DSQ™ II Single  
Quadrupole GC/MS



Thermo Scientific  
ITQ™ Series  
Ion Trap GC/MS



Thermo Scientific  
TSQ Quantum™ GC  
Triple Quadrupole GC/MS



### Increase your lab's efficiency with high-throughput, workflow oriented software

Thermo Scientific QuanLab Forms 2.5 is a user-friendly chromatography analysis software package that provides automated processing and smart reporting for quantitative analysis. This software is designed to complement the current full range of Thermo Scientific benchtop GC/MS systems and easily fits into the workflow of any GC/MS laboratory.

Today's labs often must balance high productivity and throughput with stringent quality control protocols to be successful. Designed with these challenges in mind, QuanLab Forms provides an integrated, workflow oriented approach for addressing these challenges.

QuanLab Forms adds a powerful productivity engine to the Thermo Scientific Xcalibur™ data system. Designed to ensure high-throughput quantitation, QuanLab Forms is fully integrated with the stable and flexible Xcalibur core to provide a comprehensive system encompassing method development, data acquisition, processing, review and reduction, and reporting. Both the new and experienced user will find tools to automatically generate complete data sets, while also providing the ability to perform sophisticated data review and reporting in an interactive manner.

### QuanLab Forms Highlights

#### User-Friendly

Tools and "Wizards" provide straightforward approaches to getting the GC/MS system loaded, running, and generating results.

#### Diverse

A wide range of reports, covering a variety of aspects of quantitative work, provide documentation compliant with internal SOPs and external agencies.

#### Versatile

QuanLab Forms can be used with current Thermo Scientific benchtop GC-MS systems running Xcalibur v 2.0. This software takes full advantage of the functionality of each hardware system such as sequential Full Scan/GC-MS/MS, or Full Scan/SIM. Data work-up can be done at the instrument or at a separate workstation.

#### Automated

Batch operations can be completely automated, generating results and reports in real-time as the sequence proceeds.

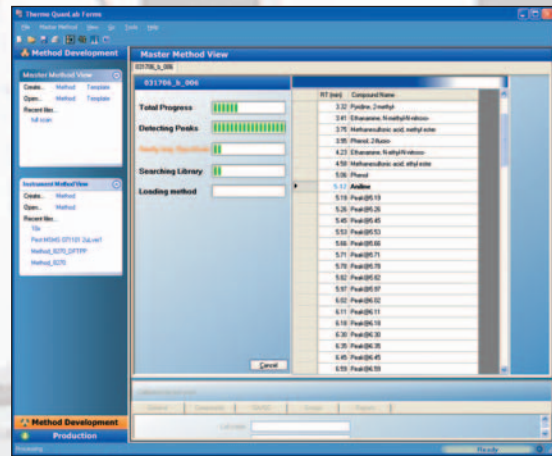
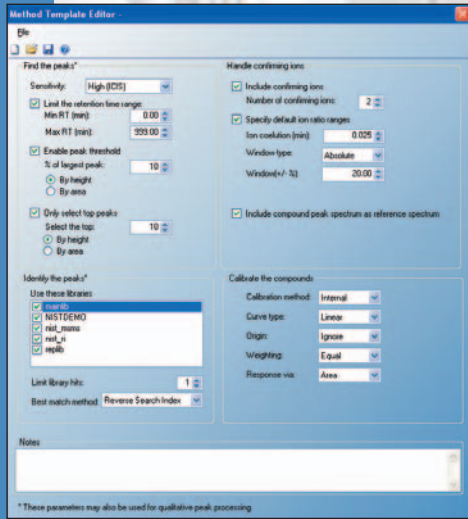
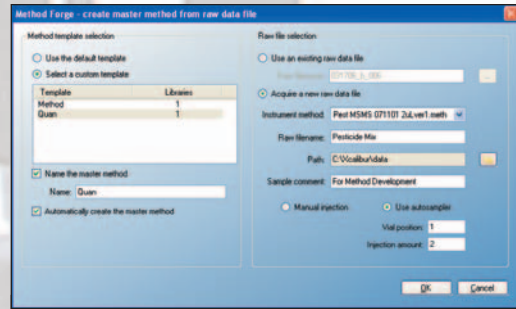
#### Powerful Smart Reporting

An integrated approach to data review and reporting allows for dynamic linking between these activities, so that modifications can be quickly evaluated and approved.

# Workflows that Fit Your Needs

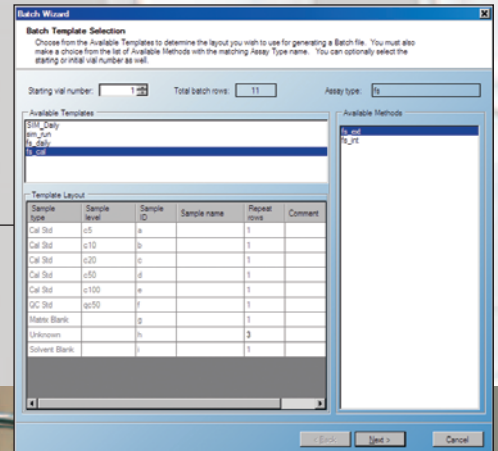
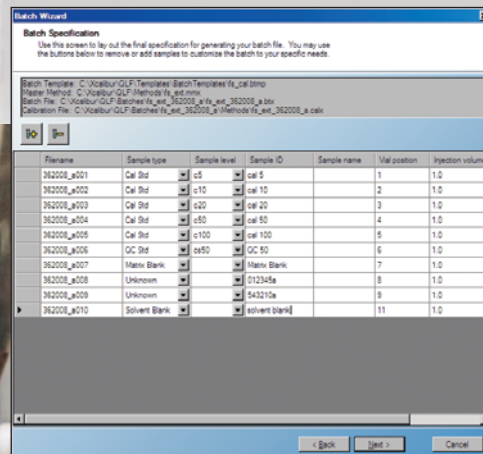
## Streamline Method Development

Revolutionary new “Method Forge” creates processing methods automatically from a data file. Select an acquisition method, queue the sample, and Method Forge takes care of the rest. Peaks are labeled, quantifier and qualifier ions selected, and calibration settings are generated automatically. For long target compound lists, Method Forge dramatically reduces the amount of time you need to be ready to run.



## Wizards and Templates Facilitate Routine Tasks

Certain tasks in your lab must be performed the same way every day. For tasks such as these, QuanLab Forms offers “Wizards” and templates. Templates let you set up the framework of your batches – the items that are the same from day to day, such as calibration, quality controls, and blanks. Using the Batch Wizard, you fill in only the parts that differ from day to day – unknown sample IDs, project names, etc. Programming time is dramatically reduced, and batches are easily referenced and stored.





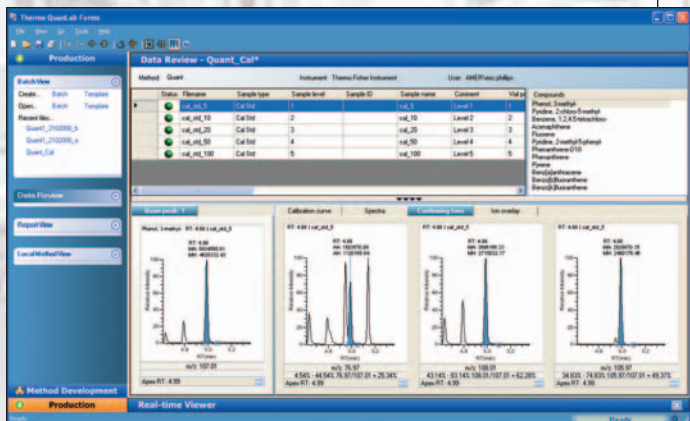
*Easily spot out-of-range data – correcting it can be as simple as manually changing the way the peak is integrated.*

## Simplify Data Review and Reporting

Perhaps the most important part of quantitative analysis is reviewing batch and sample data. The Data Review feature in QuanLab Forms is designed to support the analyst's critical role in this key process. Evaluate peak integration, review different curve fits, observe ion ratio values, and inspect sample and reference mass spectra – easily, and with full interactivity.

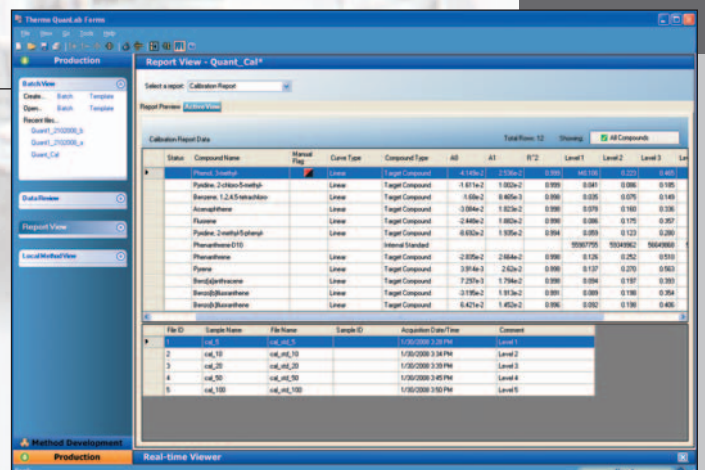


*Connecting data review with data reporting revolutionizes the way you move from sample to result to report.*



## Smart Reporting Transforms Data Review Processes

Why is reporting data confined to a static process of putting information on a piece of paper? With QuanLab Forms the reporting process is an easy way to review the data. The Report View in QuanLab Forms is linked to the Data Review page. By clicking the mouse, the operator can jump from the problem spot on the report to that compound and data file in Data Review. Fix the problem, go back to the report, and your changes are reflected immediately – no reprocessing, no re-analyzing.



## Simplify Reporting with Pre-Defined Report Options

### Calibration

Report calibration curves using Average Response Factor, Linear, or Quadratic fits. This report can be generated automatically during the sequence, or manually printed from Data Review. Using Smart Reporting, the Calibration Report can be selected from the active report view – clicking the mouse takes you back to Data Review to investigate values of interest.

### Quantitation

This standard report selection gives the retention time, quantitation mass, area count and the calculated amount for each compound in the method, including internal standards. A chromatogram header and sample information make this a valuable report for routine quantitation.

### Confirmation Report

This selection is generated compound-by-compound, and is used to create a comprehensive report that includes the calibration curve, reference and sample spectra, and the calculated sample amount. Peak integration results for the quantitation mass and qualifying ions are displayed as well.

### High Density Reports

For samples that may contain hundreds of target compounds, the High Density report selections reduce the amount of paper that may be needed and yet still provide key information about the sample results. The three report options differ in terms of the number of masses displayed per compound. The

first report option simply displays the integrated quantitation mass.

The second report option includes the quantitation mass and the first qualifying ion. The final high density report displays the quantitation mass and multiple qualifying ions. Each report option includes peak integration results and calculated amounts for each peak.

## A Full Complement of Additional Quantitative and Qualitative Reports

**Batch** – This summary report includes all of the relevant batch information, including results, on one report.

**Blank** – This report includes bounds checking and a report layout designed specifically for blank samples.

**Breakdown Report** – Verify system performance by specifying a compound and one or more of its breakdown components, and this report will automatically calculate breakdown percentage.

**Calibration Report** – Calibration curves for each compound are printed individually, ideal for shorter compound lists.

**Chromatogram** – This straightforward report allows a simple printout of the chromatogram, including relevant sample information.

**Compound Calibration** – This calibration report offers large graphical views of the calibration curves for each compound, printed separately. Additional calibration information is also included in this report.

**Ion Ratio Failures** – Easily identify those samples and compounds with ion ration confirmation failures using this separate report.

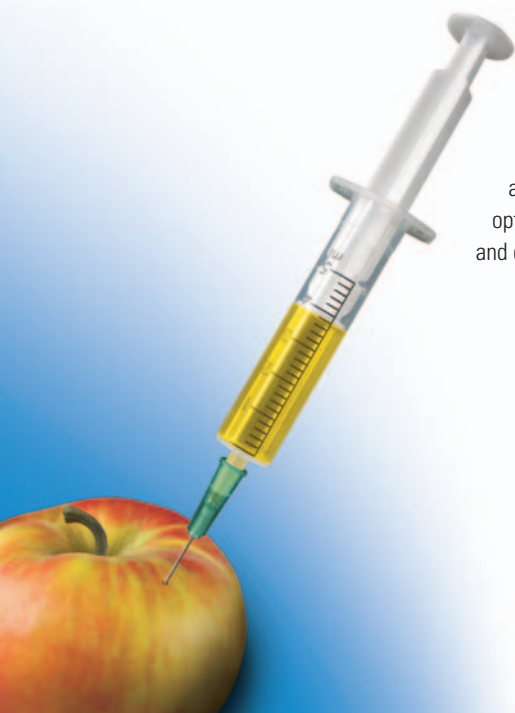
**Manual Integration** – Comply with auditing requirements using this summary report which identifies samples that were manually integrated.

**Method** – Print the method used to generate the data for incorporation into the report package.

**Qualitative Peak** – This option provides a comprehensive library search result report for detected peaks in a sample, including spectral data from both the sample and the library hits. Semi-quantitative data are also included.

**Qualitative Summary** – Easily view the list of qualitatively identified compounds, including semi-quantitative results and retention times.

**Surrogate Recovery** – Report the extraction efficiency of surrogate compounds that are spiked into each sample.



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