

AUTOMATE LABORATORY DATA HANDLING

The *ONLINE LIMS* is a laboratory information management system that has been designed to maximize sample throughput and to improve overall laboratory efficiency. It replaces time-consuming and sometimes inaccurate manual data transcription procedures with an on-line instrument interface system that automatically records information as it is obtained. With access to a constant flow of information, laboratory personnel are better equipped to schedule laboratory procedures in a manner that minimizes downtime and maximizes analytical batch size.

ONLINE LIMS' instrument interface system is much more than a simple link between the LIMS database and the instrument. It is an analytical instrument environment that enables analysts to structure and manage their workload by creating technique specific worksheets. *ONLINE LIMS* includes a complete range of software interfaces so that all RS232 and USB compatible analytical instruments can be connected directly on-line to the LIMS.

Implementing the *ONLINE LIMS* can also lead to significant quality improvements. The system's ability to monitor, track, and communicate quality control data (i.e. Shewhart Control Charts, etc.) provides your laboratory with the information required to undertake continuous improvements to analytical methods and work practices.

The end result of your *ONLINE LIMS* acquisition will be increased sample throughput and an improved flow of information within the laboratory.

"ONLINE LIMS will quickly bring clarity and accessibility to the flow of both samples and data in your laboratory."

SPECS:

- True Object Oriented WIN32 Application (C++)
- ODBC32 interface to the DATABASE
- Client/Server Win32 architecture
- Object containers (Stores any kind of documents)

KEY BENEFITS

10 years
online

- Very easy to learn, Excel like spreadsheet and formulas
- Extremely fast data access and queries
- Integrated with an advanced QA/QC system
- Very low maintenance cost
- A ready to go, off the shelf system

FEATURES

Instrument Interface System

- Simple, fast connection of almost any instrument
- On-line, instrument specific Worksheet templates
- Data validation against QC database
- Interfaces to any database or LIMS
- Instrument database including service & calibration time

Spreadsheet

- Automatic calculation and storage of significant figures
- Customized unit and significant figure reporting
- Full cell formatting features (font type, colors, borders)
- Very versatile, technicians design their own templates
- Supports Object Linking and Embedding (OLE) control

Data Management and Statistics System

- On-line, work group based, spreadsheet files
- Color coded "real time" work status
- Pending work updates & Priority report flagging
- Advanced filtering and querying capability
- Lab management statistics, including number of samples and determinations received per month, and work load by element, pending, and completed work statistics
- Sample tracking system

Data Reporting/Exporting System

- Flexible built-in report generator and Crystal Reports
- Intelligent print sheet formatting
- Flexible data export structures (CSV, TXT, Excel, XML)
- On-line historical graphical data display for plant

Quality Assurance and Quality Control

- Standard, blank, and replicate statistics package
- User interactive charts for decision feedback
- EXCEL-exportable data and statistics

Management and invoicing system

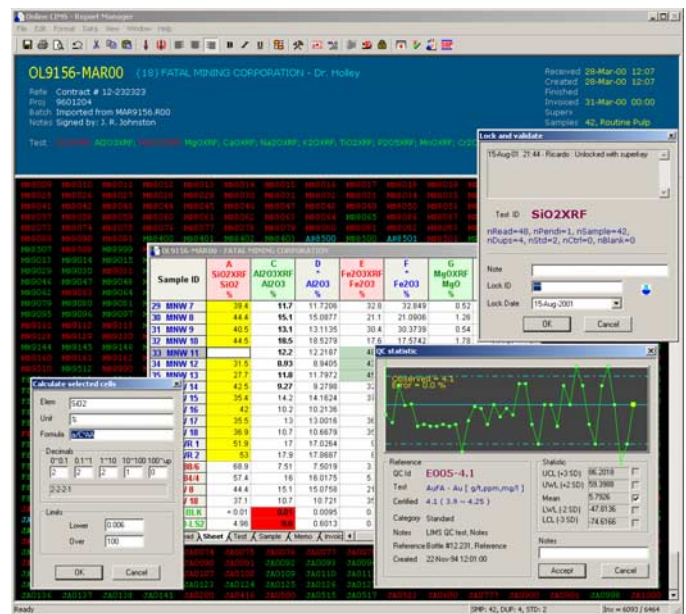
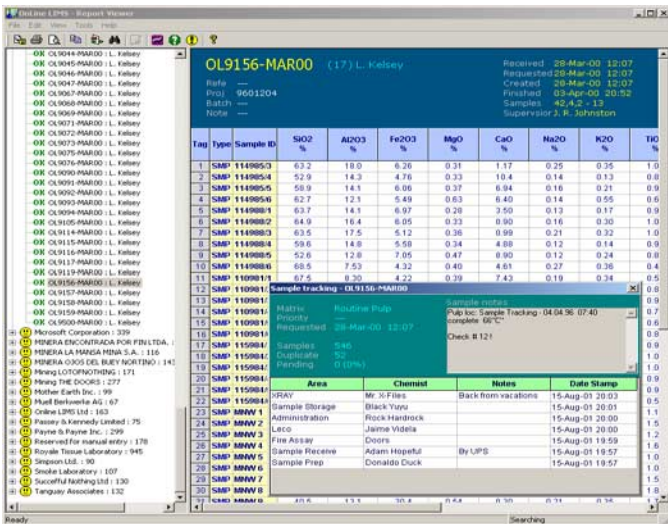
- Fully automated invoicing
- Price library including package pricing and client-specific discounts/packages
- Full client database: addresses, FAX and phone numbers
- Management statistics
- EXCEL-exportable data and statistics



LABORATORY MANAGEMENT

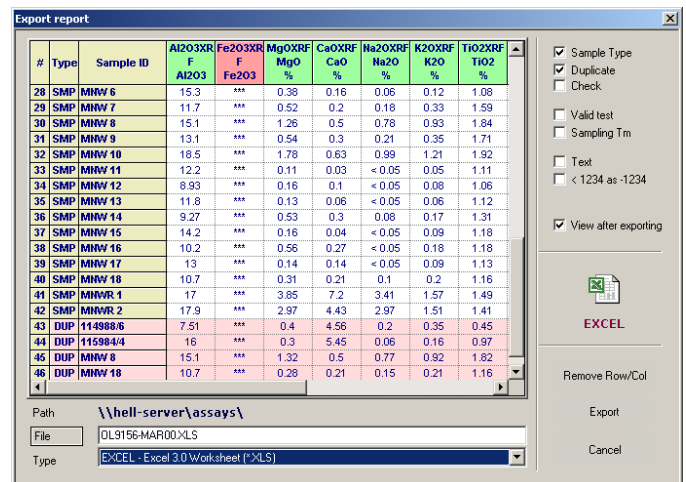
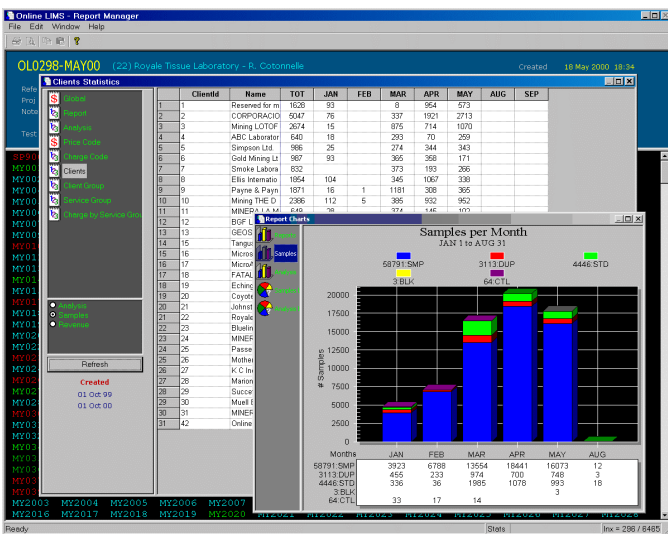
DATA MANAGEMENT AND STATISTIC

'REAL TIME' WORK SCHEDULING



The *ONLINE LIMS* Statistics package allows you to instantly create financial or production reports based on the criteria you select. All statistical reports can be easily exported to MS Excel for further manipulation.

The color-coded graphical display provides an immediate overview of the status of each report and analysis. Filters can be used to specify certain criteria (i.e. view only pending reports for a certain client, project, service group, date, and/or analysis).



Features:

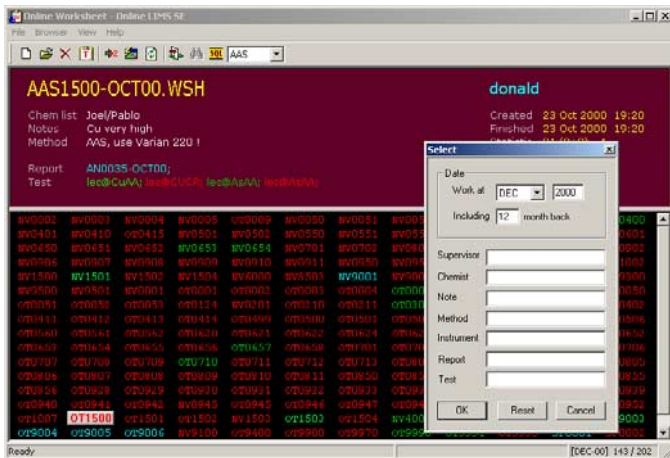
- Lists by customer, project, or work status (i.e. pending work, turnaround, sample tracking)
- Quick view of work status
- Easy review of report and Worksheet information
- Statistics displayed in graphical formats

The LIMS Export module also allows the user to export LIMS spreadsheet data into any data format (i.e. ASCII, EXCEL, XML, and so on).

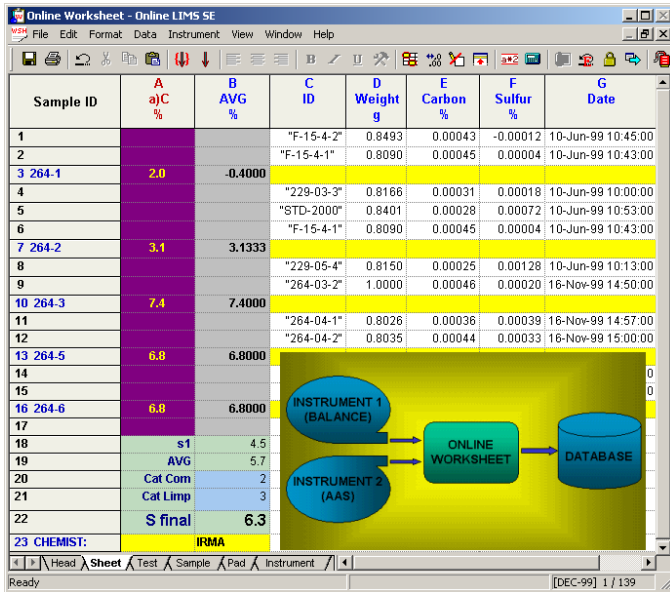


ANALYTICAL TOOLS

ADVANCED ONLINE WORKSHEET



The *ONLINE LIMS* instrument interface is much more than a simple link between the database and instruments: it provides an analytical instrument environment, which allows the analyst to build customized worksheets at the bench.

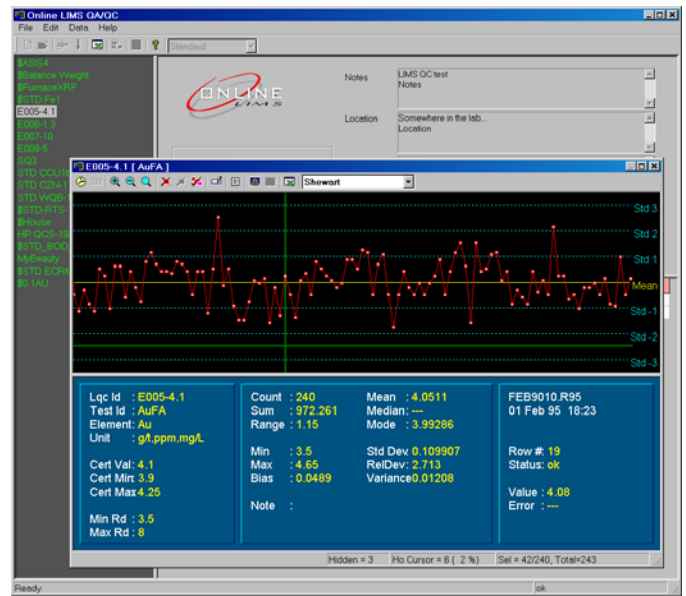


Features:

- “Readings” spreadsheet specially designed for chemists
- On-line or manual input of instrument data
- Automatic calculation of analytical results
- User defined decimal point
- Raw instrument data available on-screen
- Excel like Spreadsheet
- Excel like Formulas

AND INTERFACES TO OTHER LIMS SYSTEMS !!!

QUALITY ASSURANCE & QUALITY CONTROL MODULE



The LIMS QA/QC module plots Control Chart with standard values by report and provides the analyst with the data required to make informed decisions. This module provides “real time” QA/QC data by automatically extracting the standard samples from the reports and updating the QA/QC database. The distribution curve graphically displays standard data and lists the range, average, standard deviation, and number of data points collected for the standard. All QA/QC files can be exported to EXCEL for further analysis and reporting.

