OpenLAB CDS EZChrom A.04.05
Tips and Tricks for GC Users

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EZChrom Edition

Problem / Solution

Problem

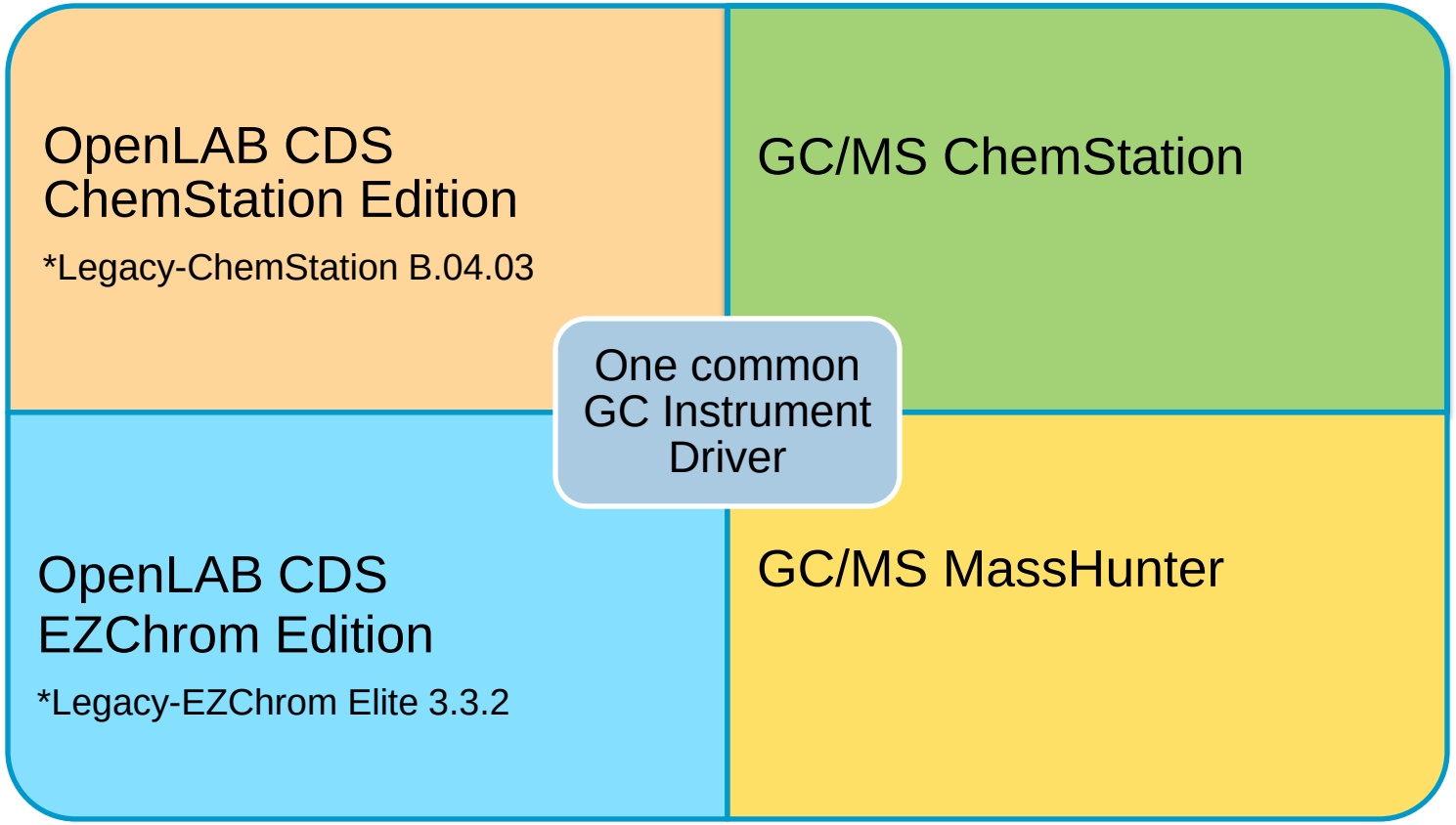
I need to be able to switch quickly between different Agilent data systems.

Solution

Enhanced drivers provide a standard layout for all Agilent Data Systems.

GC Instrument Driver

Support for 7890, 7820, 6850, and 6890 GC with enhanced Drivers to provide a standard layout for all Agilent Data Systems.



Problem / Solution

Problem

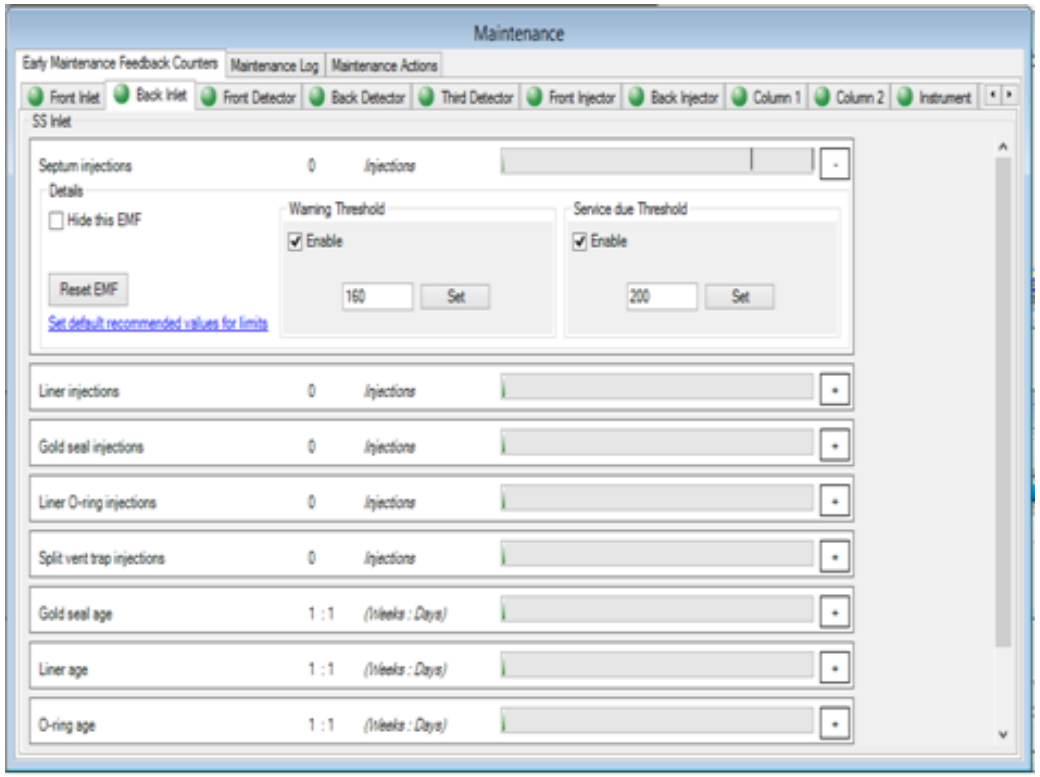
- How can I optimize my maintenance schedule and reduce unplanned downtime?
- The lab personnel including myself forgets when the instrument maintenance was last performed.

Solution

Agilent Early Maintenance Feedback

Agilent Early Maintenance Feedback

- Set-up the Counters within the Agilent Data Systems
- Based on the configuration of the GC
- User-defined early maintenance feedback counters
- Notification of the Warning and Service Due



Problem / Solution

Problem

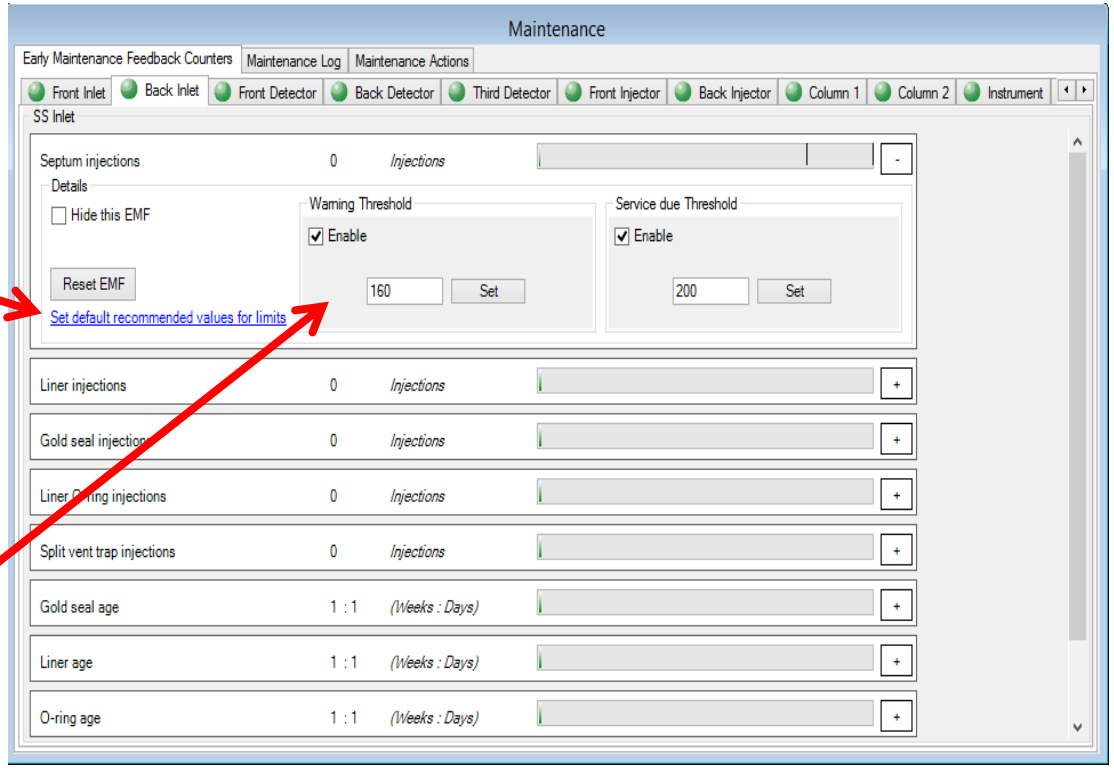
I want to optimized my maintenance schedule, but I’m not sure of the values to set the EMF maintenance counters.

Solution

Agilent Early Maintenance Feedback

Agilent Early Maintenance Feedback

- Some EMF counters have default limits; however the maintenance required will be depended on the type of sample analyzed.



Another way to set them up:

- When you perform maintenance look at the settings of the counters.
- Set the warning limits to the amount.
- Check the counters next time when performing maintenance and adjust the limits.

Problem / Solution

Problem

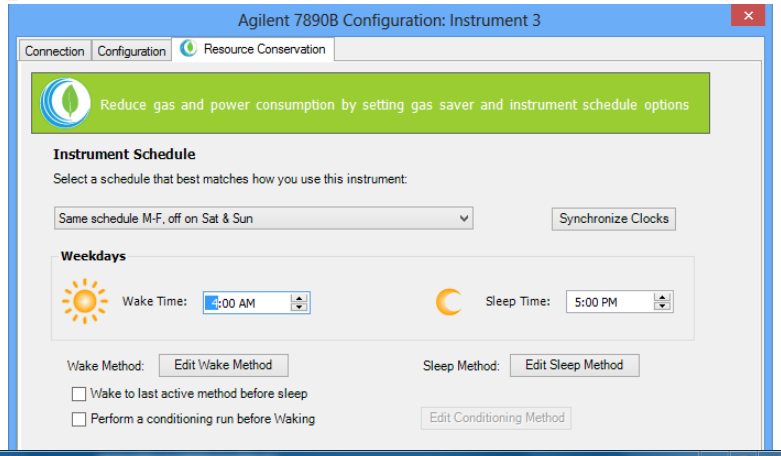
I need to control cost in my laboratory with increasing cost for energy and helium.

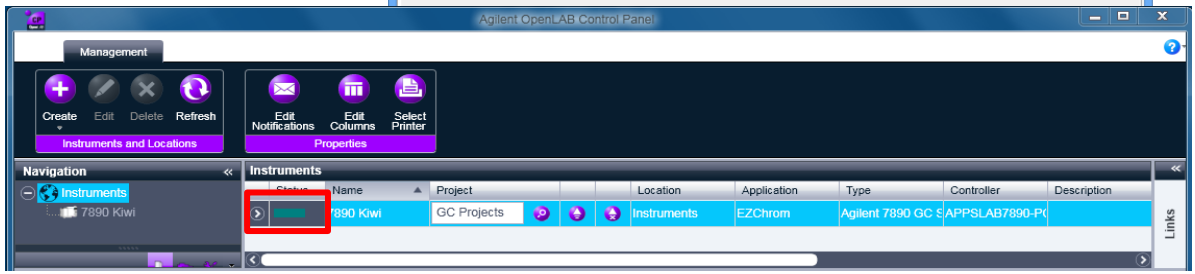
Solution

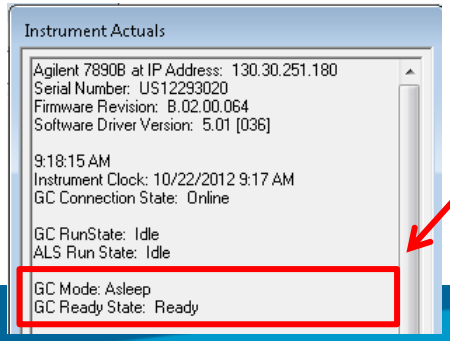
Resource Conservation using the “Sleep/Wake” mode

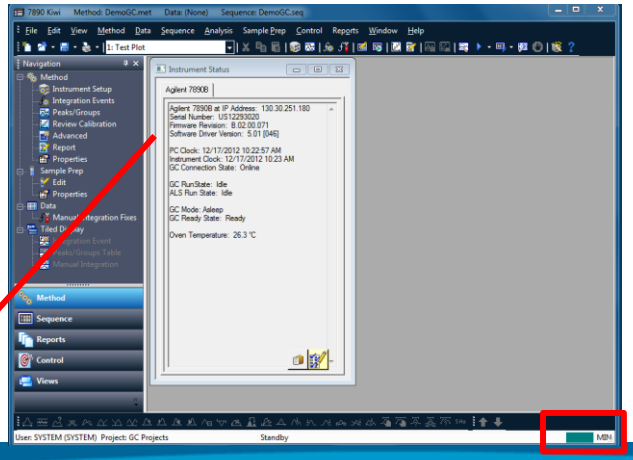
Resource Conservation: Sleep/Wake Mode

- Schedule the time of the Wake and Sleep Methods either as “custom”, “7 days a week” or “Sat/Sun”
- Manually put the instrument to sleep by clicking on “Sleep” on the “Instrument” menu
- Instrument will still go to Sleep or Wake mode even if the data system is not connected for any reason.









Problem / Solution

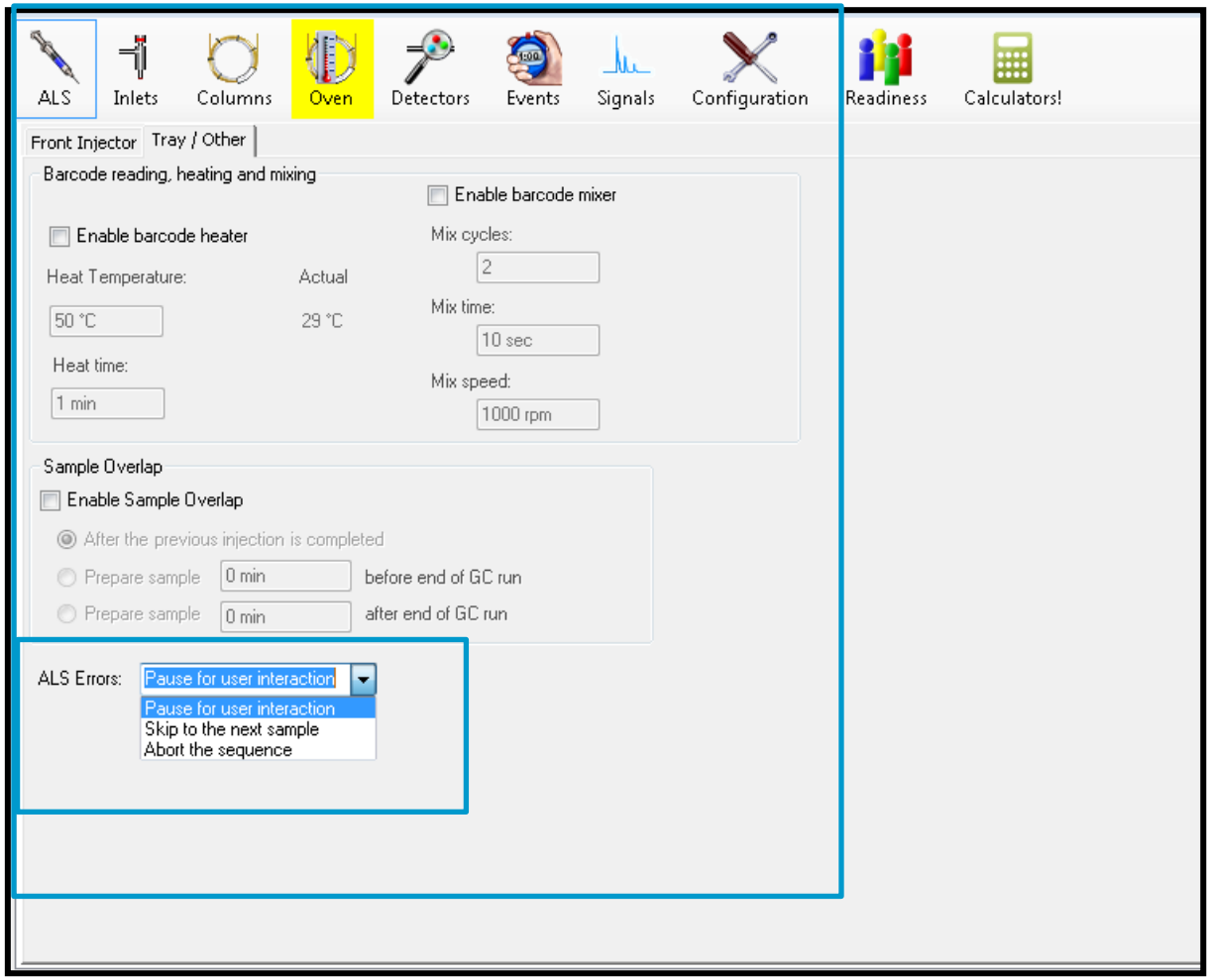
Problem

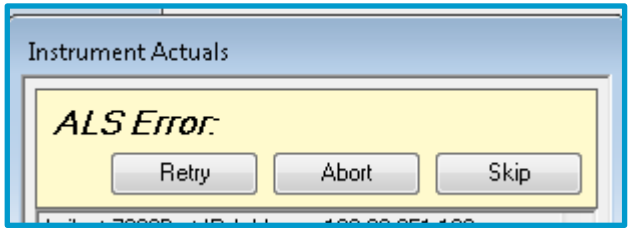
I missed putting a vial in the autosampler or miscounted.

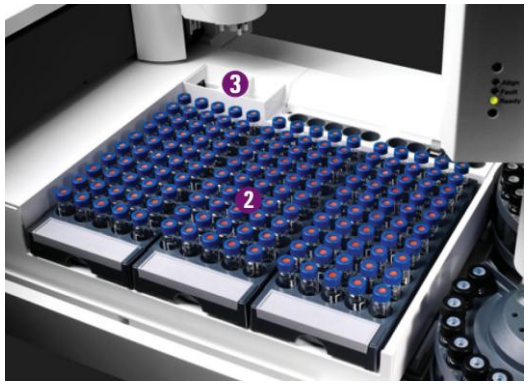
Solution

ALS Error-Retry, Abort or Skip

Handling of ALS Errors







Problem / Solution

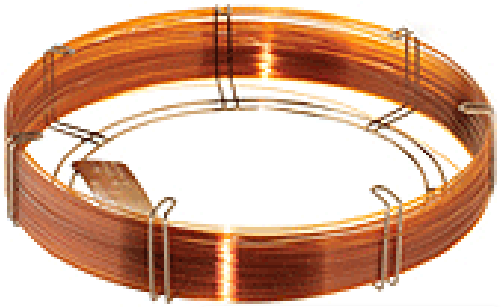
Problem

I need to be able to keep track of columns, liners, and syringes installed in the GC

Solution

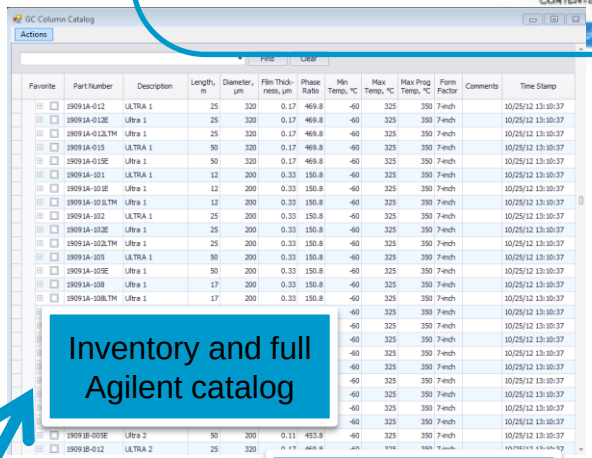
Agilent Barcode Scanning Input- Updated Consumables inventory

Barcode Scanning Input



Columns

Liners



Inventory and full Agilent catalog

Periodic updates available

*Also syringes

Barcode in the columns, liners, and syringes right into the Agilent data system method

Problem / Solution

Problem

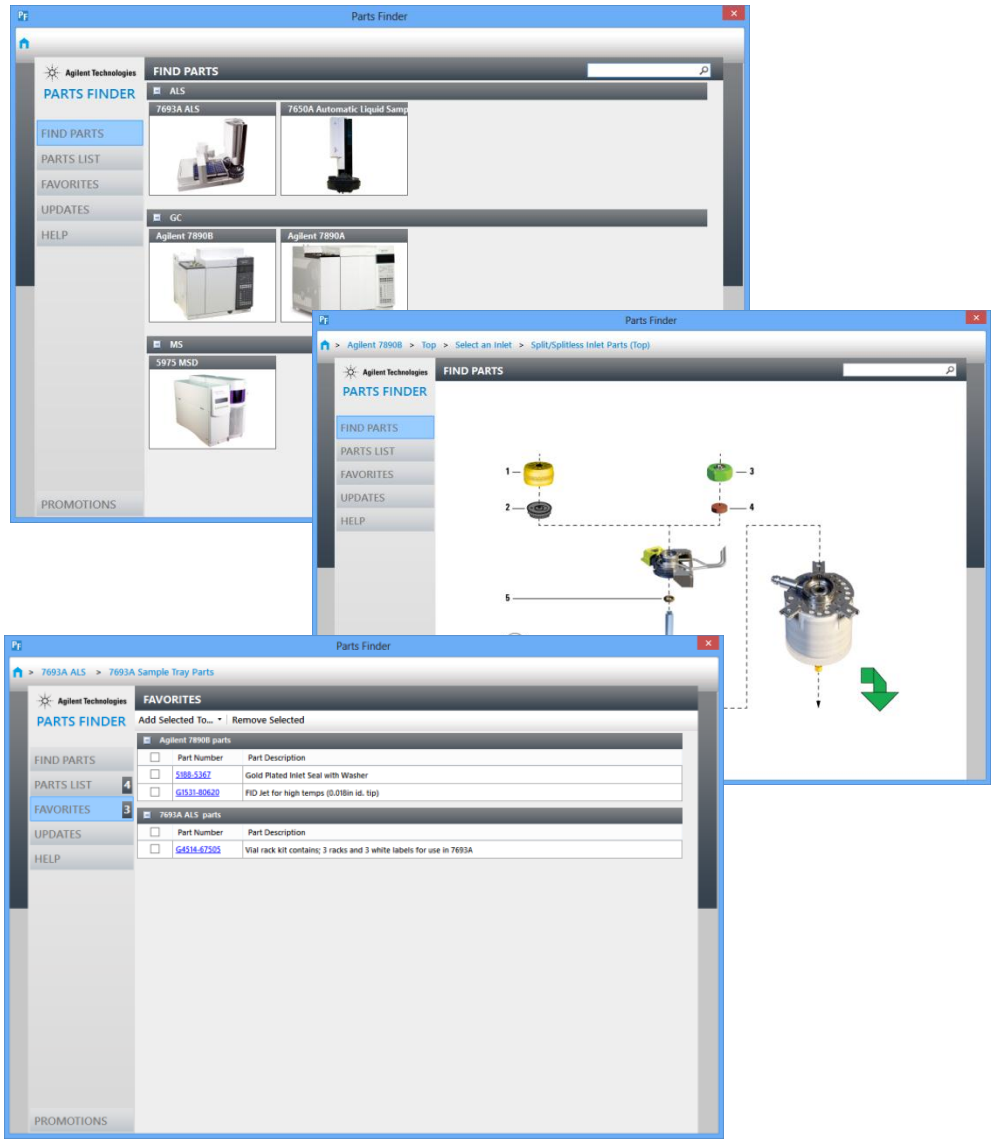
I need to replace a part for the instrument. I need to find the correct part number quickly and re-order the part.

Solution

Agilent Parts Finder Tool

Agilent Parts Finder

- Quickly locate the part number and add to the parts list or favorites
- Print the parts list or save it to a file
- Links to the Agilent.com store for quick ordering through the Agilent website.
- Update file with up-to-date parts and part numbers available via the Agilent website for download.



Problem / Solution

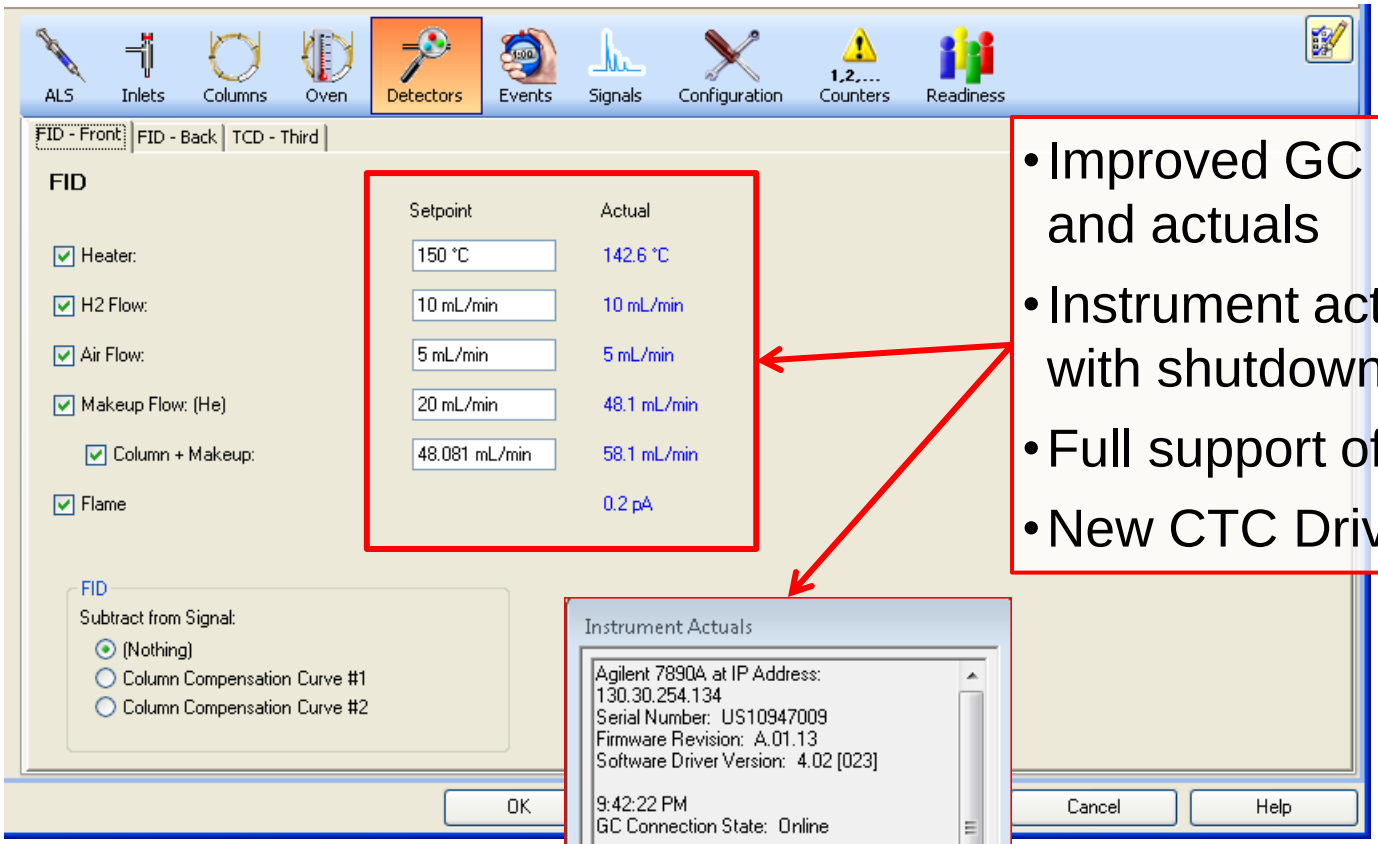
Problem

Checking the instrument actuals at the instrument is not always convenient.

Solution

Instrument actuals are displayed next to set-points in the data system.

Improvements to the GC Instrument Driver



- Improved GC Driver with setpoint and actuals
- Instrument actuals improvement with shutdown events
- Full support of LTM II
- New CTC Driver add-on

Problem/Solution

Problem

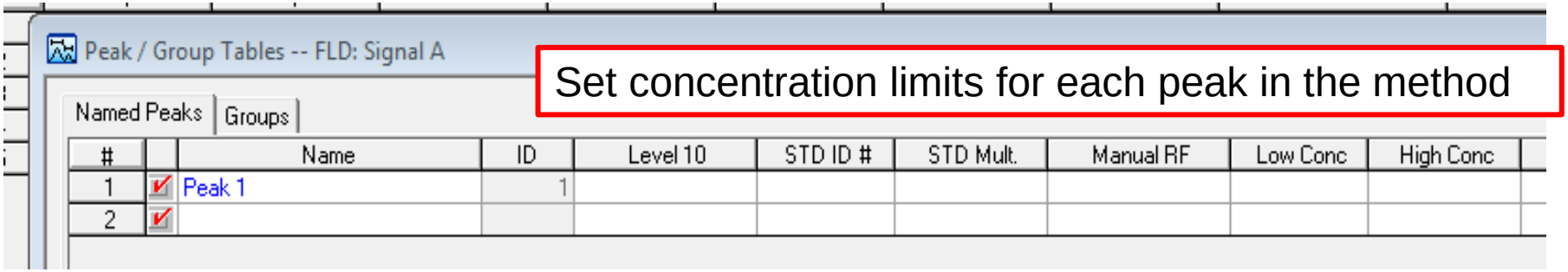
I would like the system to re-inject the sample automatically when the result is outside the reasonable limits

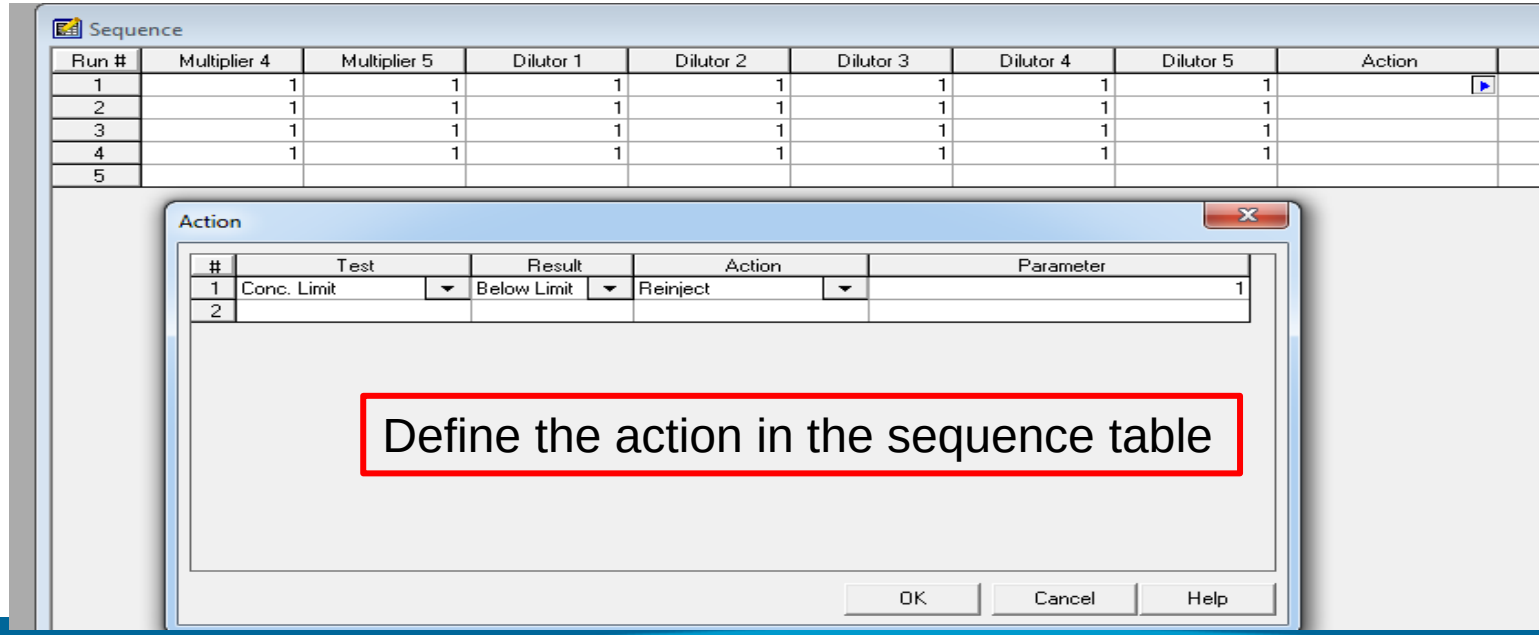
Solution

Smart sequencing

Smart Sequencing

Actions like re-injection to be triggered by the system if the define limits are out of range.





Problem/Solution

Problem

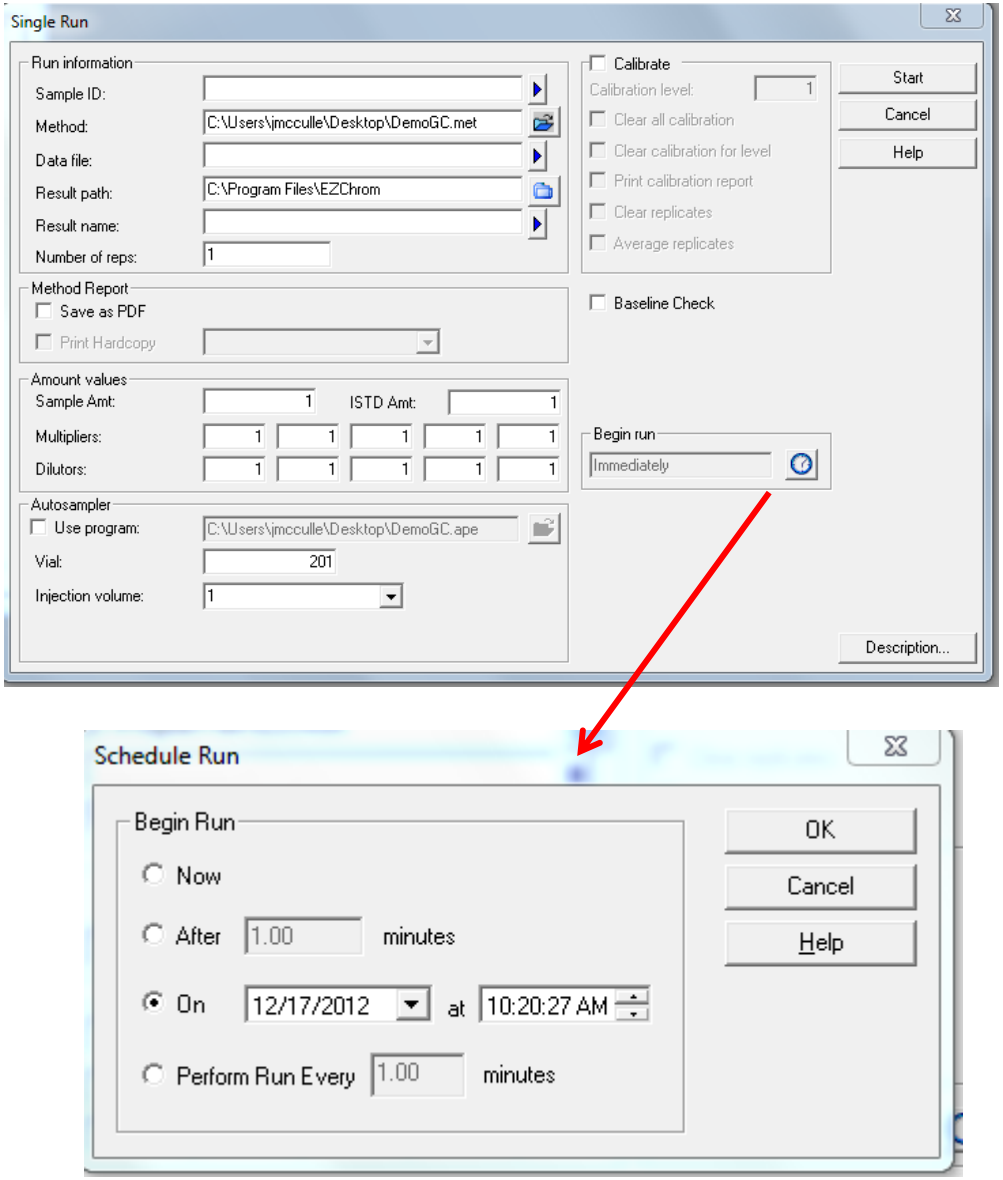
I would like to add a sample to be analyzed tomorrow at 8 AM.

Solution

Schedule Runs

Schedule Run

- After a certain number of minutes
- Certain date and time
- Repeat every number of minutes.



Problem/Solution

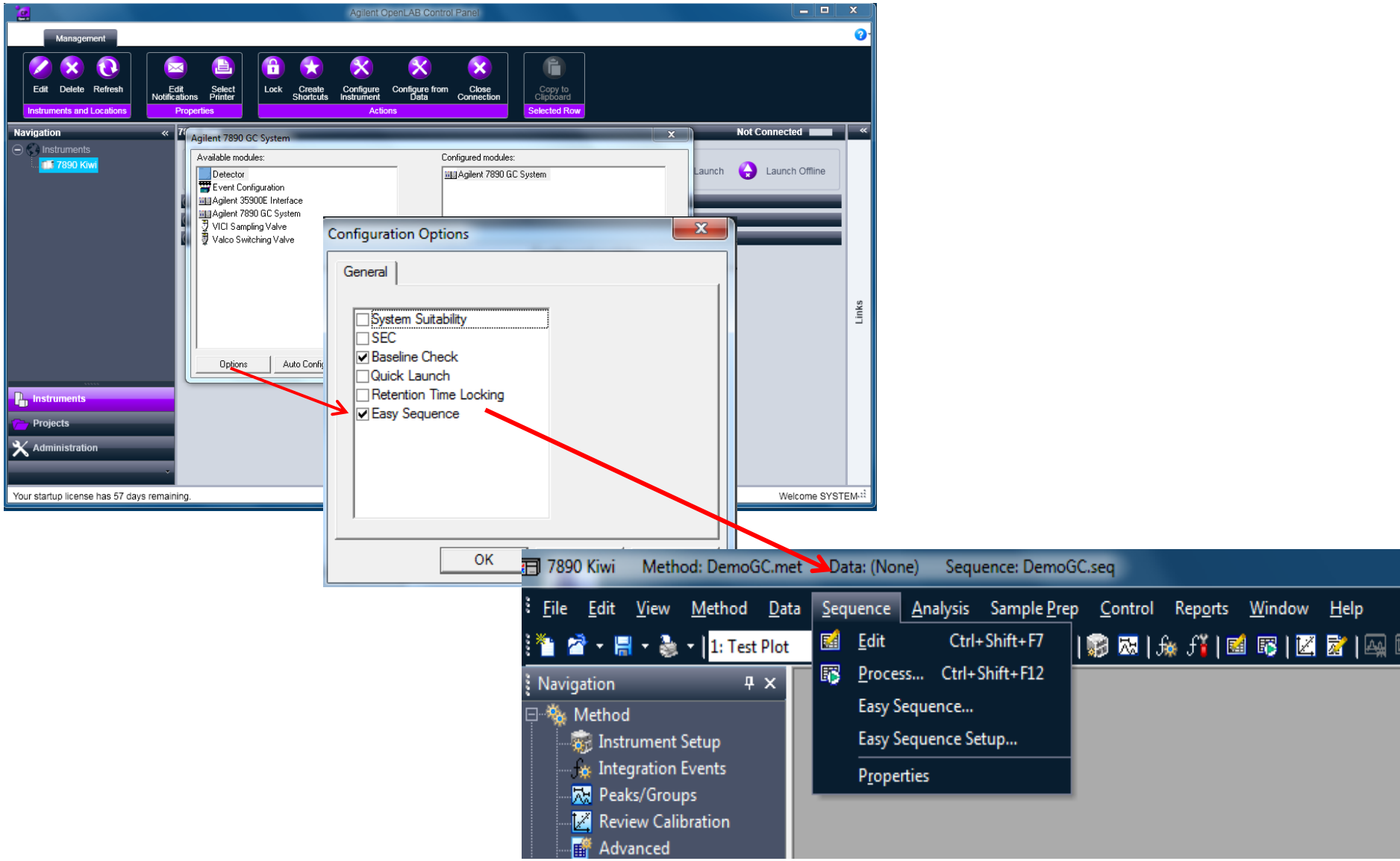
Problem

I would like to create an Easy Sequence template, so the information will already be pre-loaded when I create a sequence.

Solution

Easy Sequence

Easy Sequence



Problem/Solution

Problem

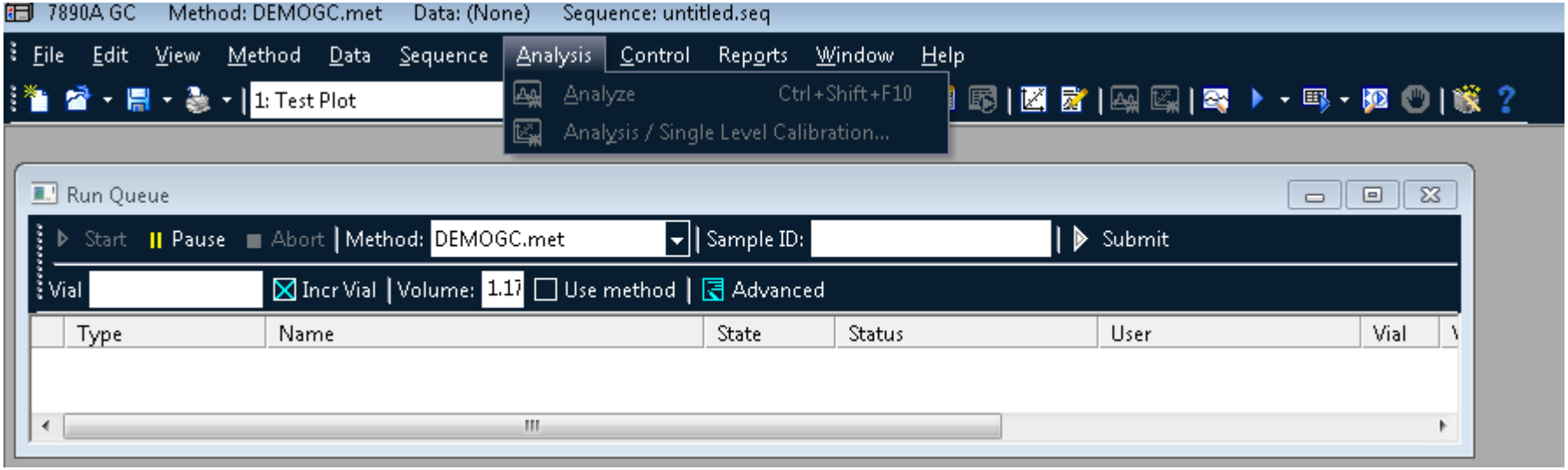
During a long running sequence, I want to reprocess results that have already completed.

Solution

Review mode

Reprocessing Results during a Running Seq.

Switch from Acquisition to Review mode to access the Result Set.



Enables a user to analyze the results while the sequence is still running.

Problem / Solution

Problem

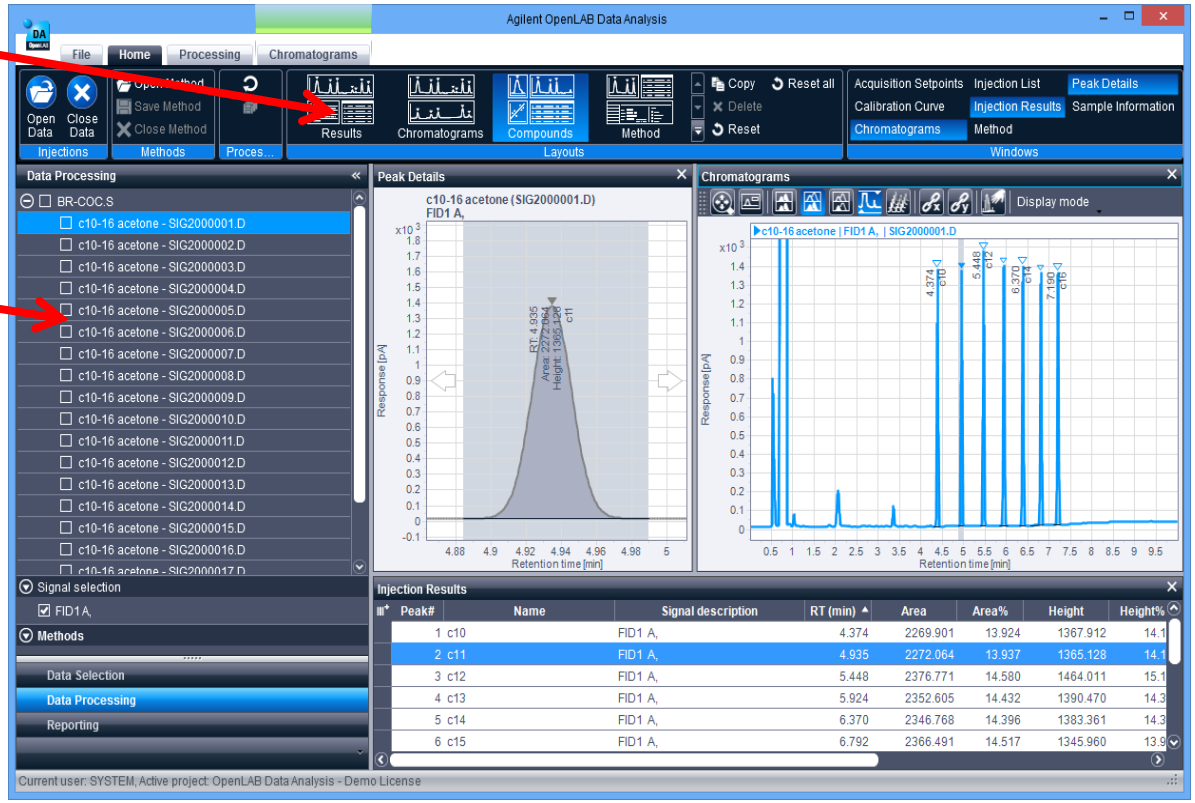
- I need to get the final data/report before the shipment can go out.
- I need to process more samples in a day.

Solution

OpenLAB Data Analysis Package

OpenLAB Data Analysis

- Customized layouts: User selects which windows and items they want to view. They are persisted even if the software is closed.
- Use “up” and “down” arrows to review all the samples in the result set in a few minutes.
- Peak detail: View each peak in the sample in a zoom-in.



Problem / Solution

Problem

- I need to get the final report before the shipment can go out.
- I need to process more samples in a day and get the reports.

Solution

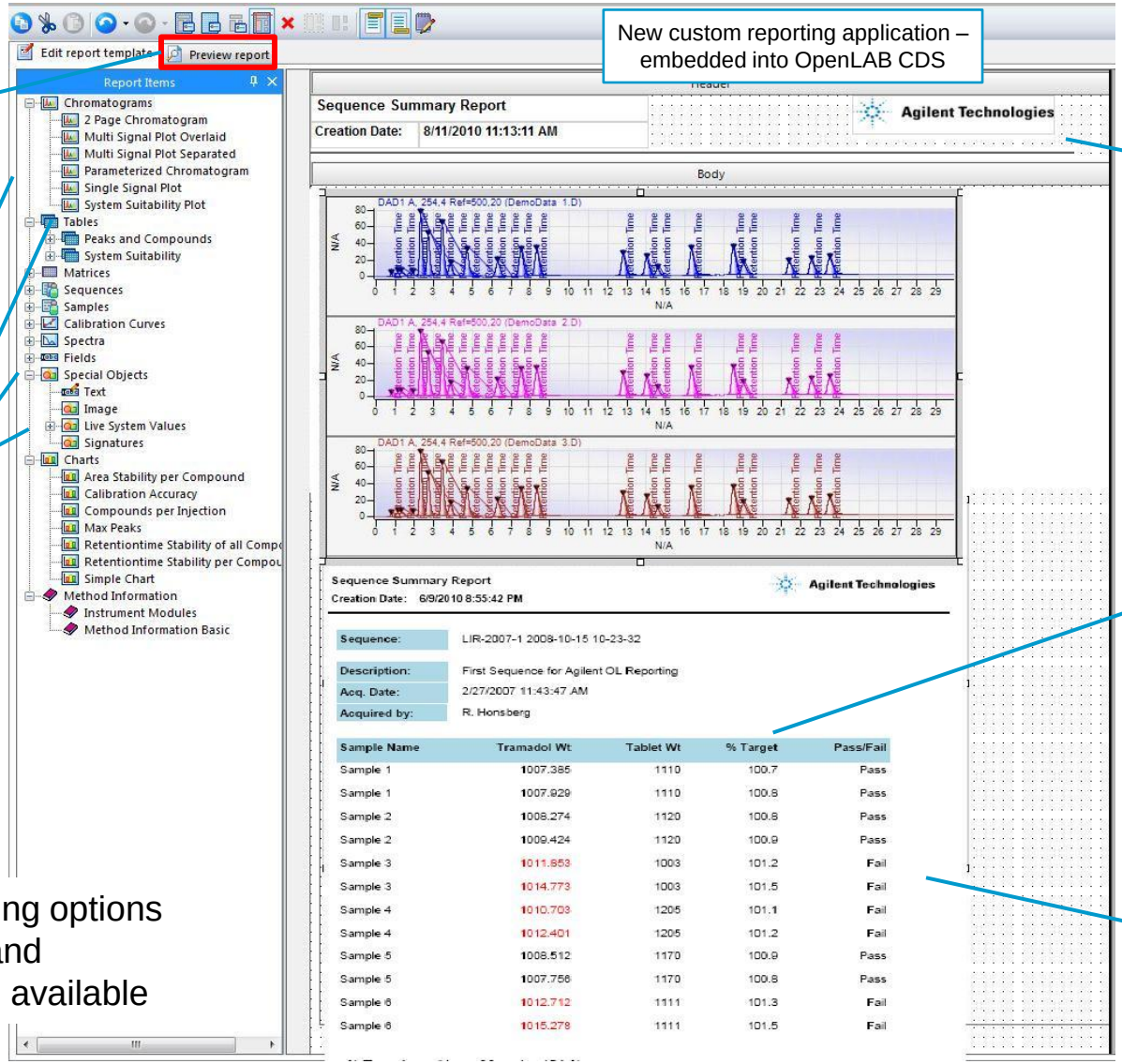
OpenLAB CDS Intelligent Reporting

OpenLAB CDS: Intelligent Reporting

Intuitive report template generation with drag & drop and interactive report preview functionality

Pre-configured report items (tables, graphics, matrices) make it easy to generate custom reports

All current reporting options in ChemStation and EZChrom remain available



Easily include graphics such as your company logo

Embedded custom calculation functionality to calculate final results – here %label claim

Intelligent Reporting: Including limit checks into report Decision-based result representation (pass/fail)

Problem / Solution

Problem

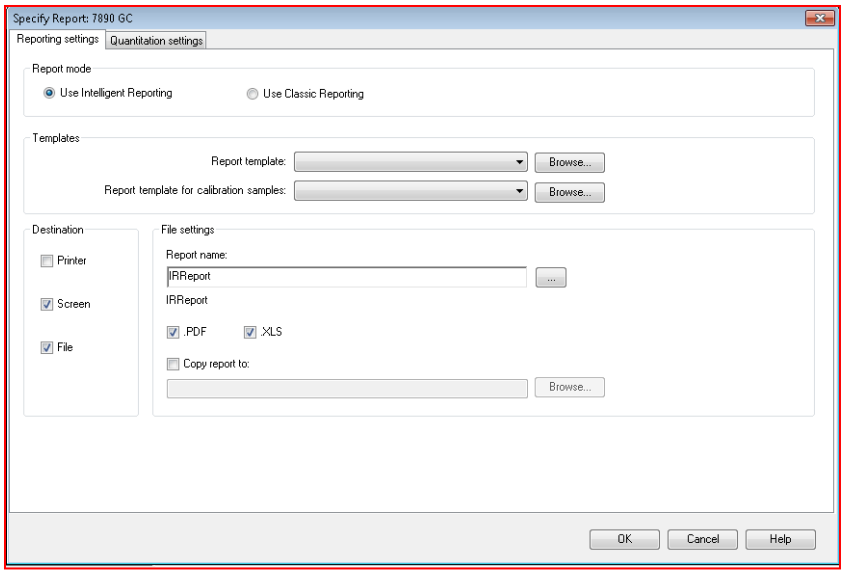
- I need to be able to easily create reports with statistical calculations.
- I want to highlight results that need a reviewer's attention.

Solution

OpenLAB CDS Intelligent Reporting

OpenLAB CDS: Intelligent Reporting

- Intuitive Customized Reports
- Calculations
  - Statistical Calculations (Sum, RSD, Average)
  - Custom Calculations
- Set limits to flag data
- Report output formats *.pdf, *.xls
- Save a copy of the single injection report to another location



Problem / Solution

Problem

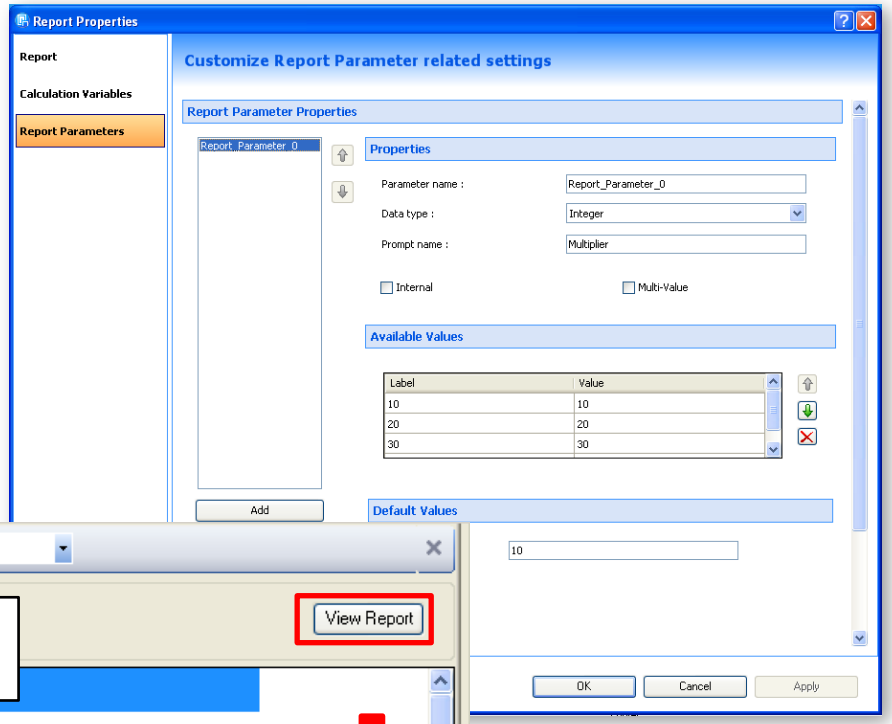
I want to easily adjust multipliers when creating the report.

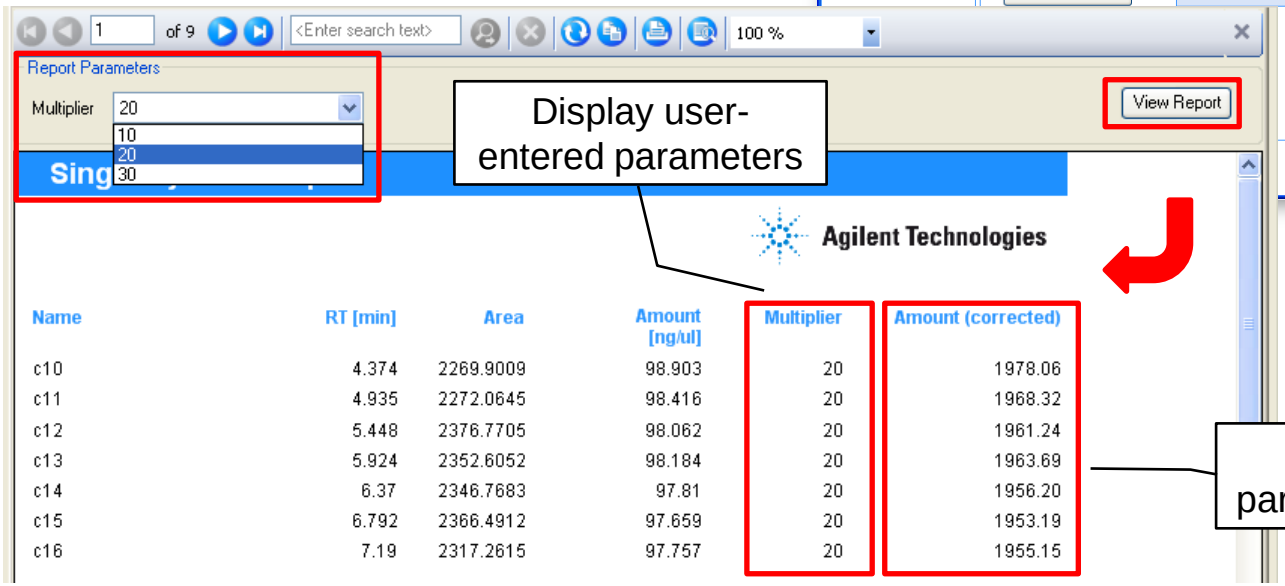
Solution

OpenLAB CDS Intelligent Reporting: User-entered parameters

Intelligent Reporting: Report parameters

- Create/Edit report parameters as part of report properties
- Allow user to enter values during rendering
- Use of report parameters in expression editor (calculations, sorting, filtering etc.) allows to user to interact with the report content and change the behavior without changing the template





Problem / Solution

Problem

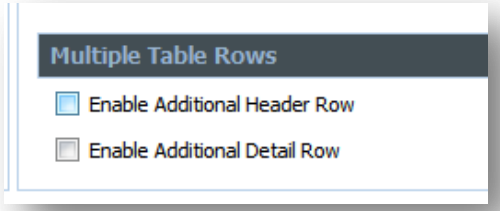
I need to control cost in my laboratory when printing out reports.

Solution

OpenLAB CDS Intelligent Reporting: Double-row tables allow you to create paper-saving reports.

Intelligent Reporting: Double row table

- Allow to design tables with two headers and two detail rows
- Summary calculations for both detail rows
- Especially useful for reports where you want to fit a lot of information onto one page



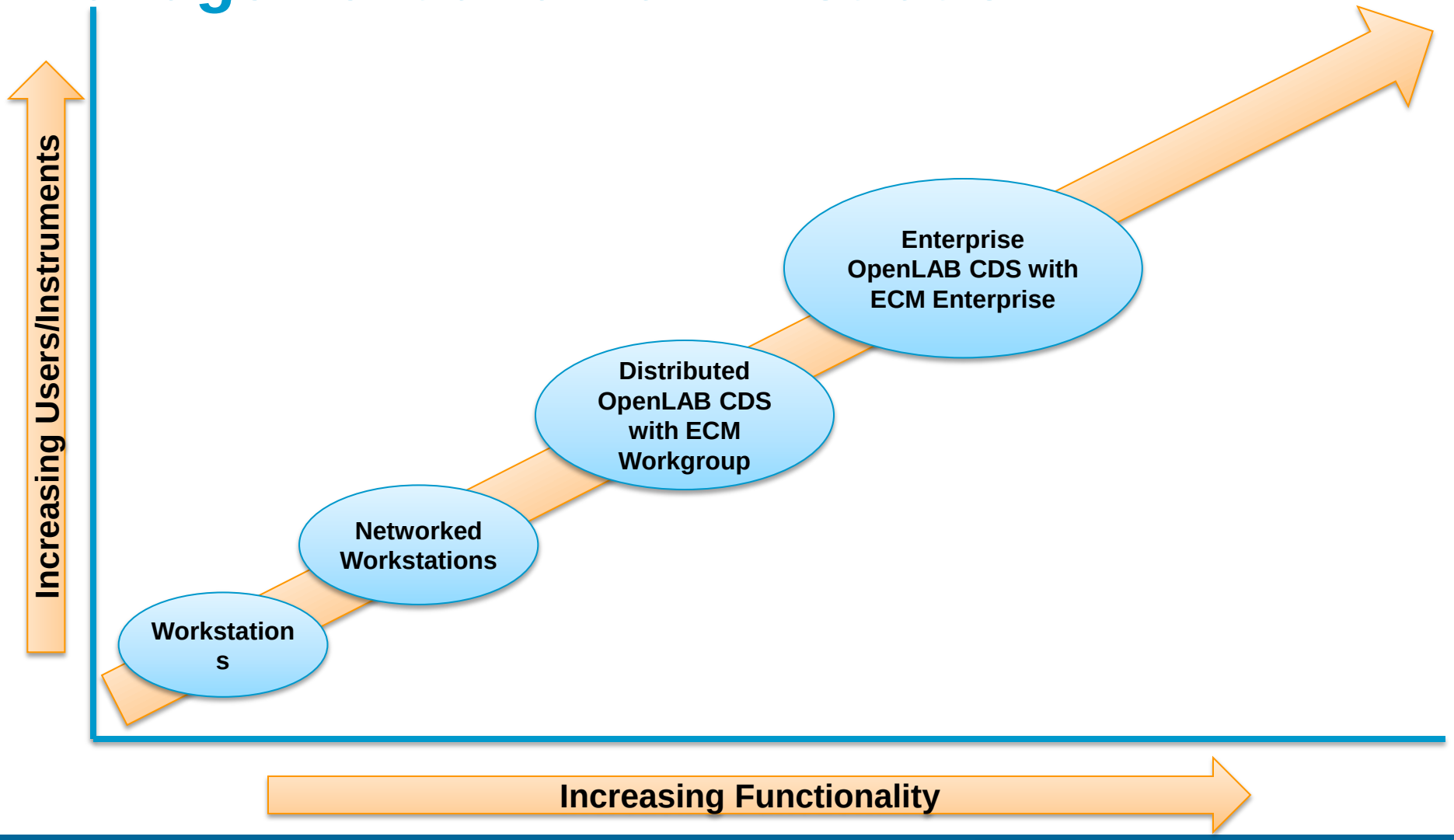
Single Injection Report

Agilent Te

Name	RT [min]	Area	Height	Area %	Height %	Amount [ng/ul]
		Signal Desc.	RF			
c10	4.374	2269.9009	1367.9119	13.92	14.16	98.903
		FID1 A,	0.04357			
c11	4.935	2272.0645	1365.1278	13.94	14.13	98.416
		FID1 A,	0.04332			
c12	5.448	2376.7705	1464.0107	14.58	15.15	98.062
		FID1 A,	0.04126			
c13	5.924	2352.6052	1390.4696	14.43	14.39	98.184
		FID1 A,	0.04173			
c14	6.37	2346.7683	1383.3612	14.40	14.32	97.81
		FID1 A,	0.04168			
c15	6.792	2366.4912	1345.9601	14.52	13.93	97.659
		FID1 A,	0.04127			
c16	7.19	2317.2615	1345.5991	14.21	13.93	97.757
		FID1 A,	0.04219			

In addition…..

OpenLAB CDS: Scalable in Storage, Lab Management and Administration



OpenLAB CDS Networked Workstation with OpenLAB ECM configuration

OpenLAB CDS Configurations: Networked workstation with OpenLAB ECM

- **Instrument Control:** Local
- **Administration:** Central
- **Storage:** Central (OpenLAB ECM)
- **Benefits:**
  - Central administration (users, licenses, user privileges)
  - Instrument status information (lab-at-a-glance view)
  - Result data available from anywhere
  - Storage in central OpenLAB ECM with database storage

Fits well with:

- Laboratories who need GLP/GMP compliance and central storage
- Laboratories looking for central lab monitoring without putting their instruments on the network and have a need of database storage

Problem / Solution

Problem

- I cannot afford to duplicate work one of my colleagues has already done.
- I need to securely store my data for a set period of time.

Solution

OpenLAB Data Store allows you to centrally store your data, share it with colleagues, backup and archive.

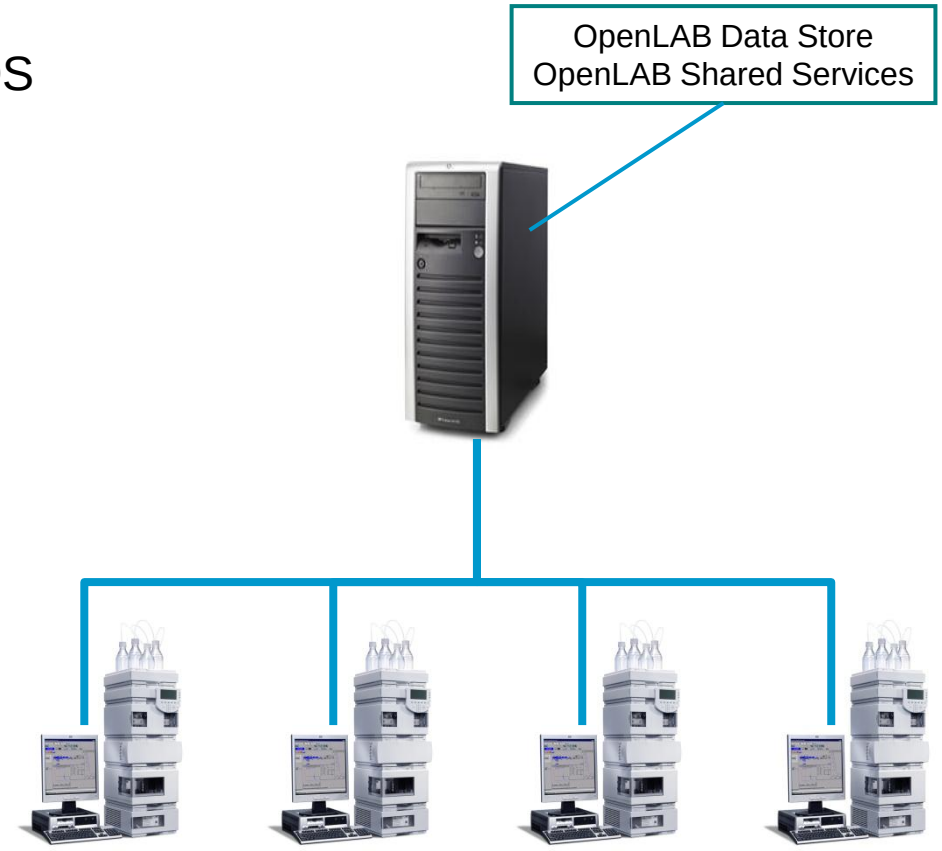
OpenLAB Data Store – Central Data Storage for OpenLAB CDS

Efficient Data Storage and Retrieval

- ✓ Centralized Storage for OpenLAB CDS
- ✓ Project-based organization and user privileges (EZChrom)
- ✓ Efficient search and retrieval of files
- ✓ Local Language Support (Chinese & Japanese)

21 CFR Part 11 Compliant

- ✓ Built to support FDA regulations
  - ✓ Data Integrity and Traceability
  - ✓ Electronic Signatures
  - ✓ Archival Capabilities



For More Information …

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