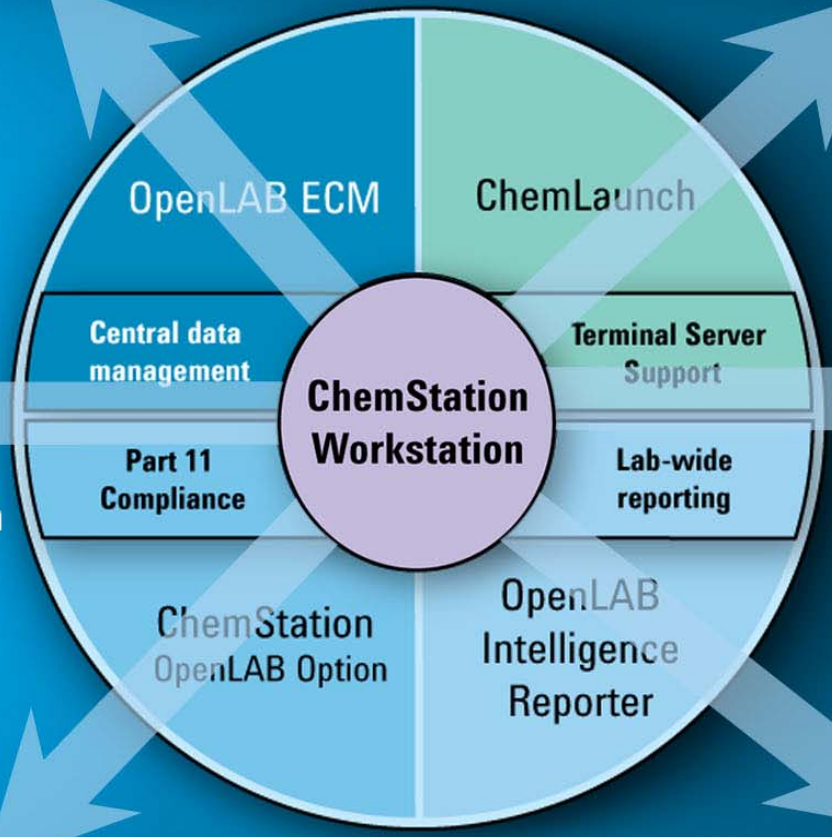
ChemStation E-Seminars

ChemStation Data Storage Concept.
October 15, 2008

Integrating my results.
December 10, 2008



How to set up a calibration table in ChemStation.
January 14, 2009

Compliance Solution with ChemStation & OpenLab.
February 18, 2009

ChemStation Navigation Table – How to improve Review and Reprocess.
November 12, 2008

Various Reporting in Chemstation.
February 04, 2009

ChemStation E-Seminar Agenda

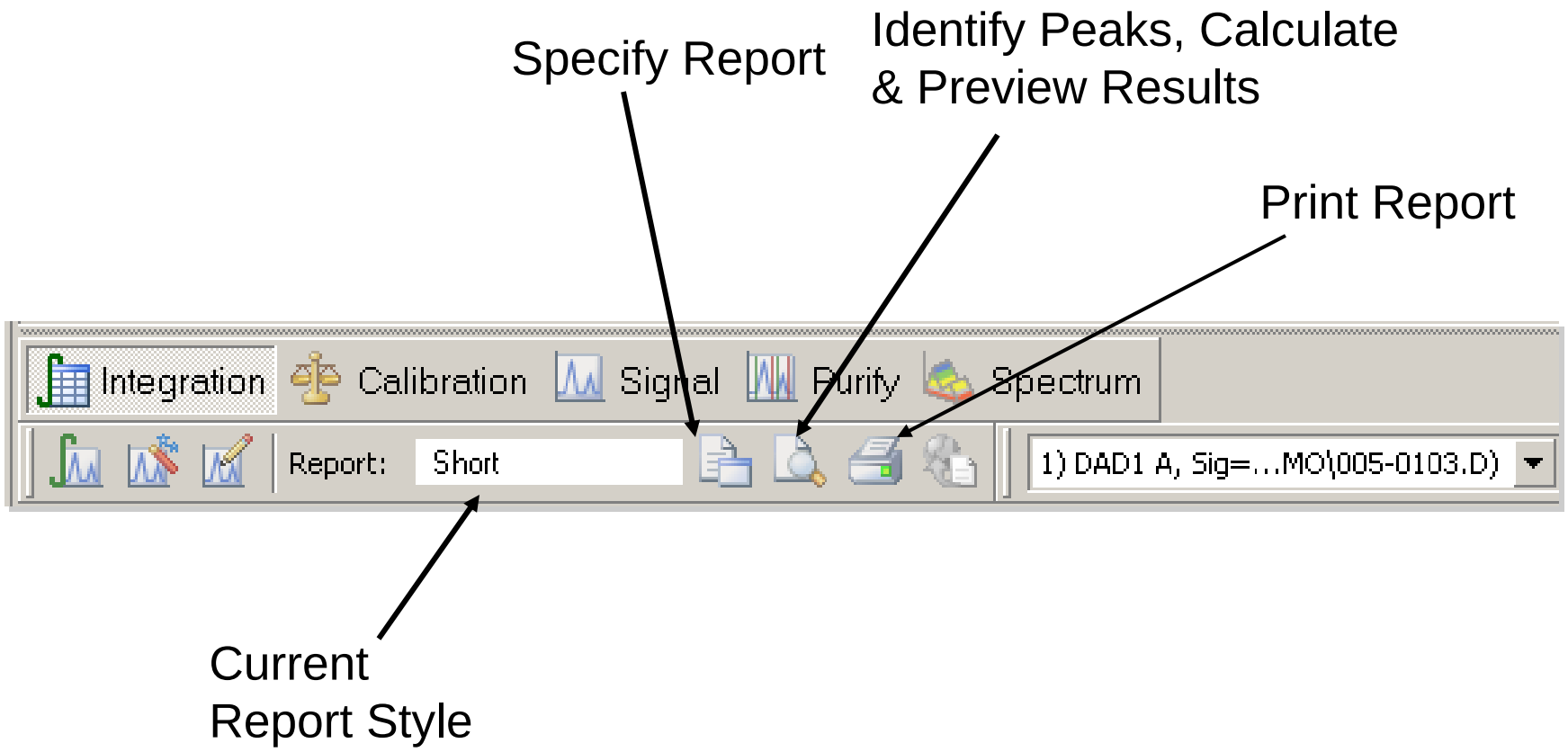
Schedule	Short description	Agilent Speaker
15. Oct. 2008	ChemStation Data Storage Concept	Steven Brown Ortrud Emde
12. Nov. 2008	ChemStation Navigation Table How to improve Review and Reprocess	Steven Brown Ortrud Emde
10. Dec. 2008	Integrating My Results in ChemStation	Steven Brown Ortrud Emde
14. Jan. 2009	How to set up a calibration table in ChemStation	Steven Brown
04. Feb. 2009	Various Reporting in Chemstation	Steven Brown Ortrud Emde
18. Feb. 2009	Updated Compliance 21 CFR Part 11 solution with Agilent ChemStation & OpenLAB ECM	Steven Brown Ortrud Emde

Seminar 5:Various Reporting

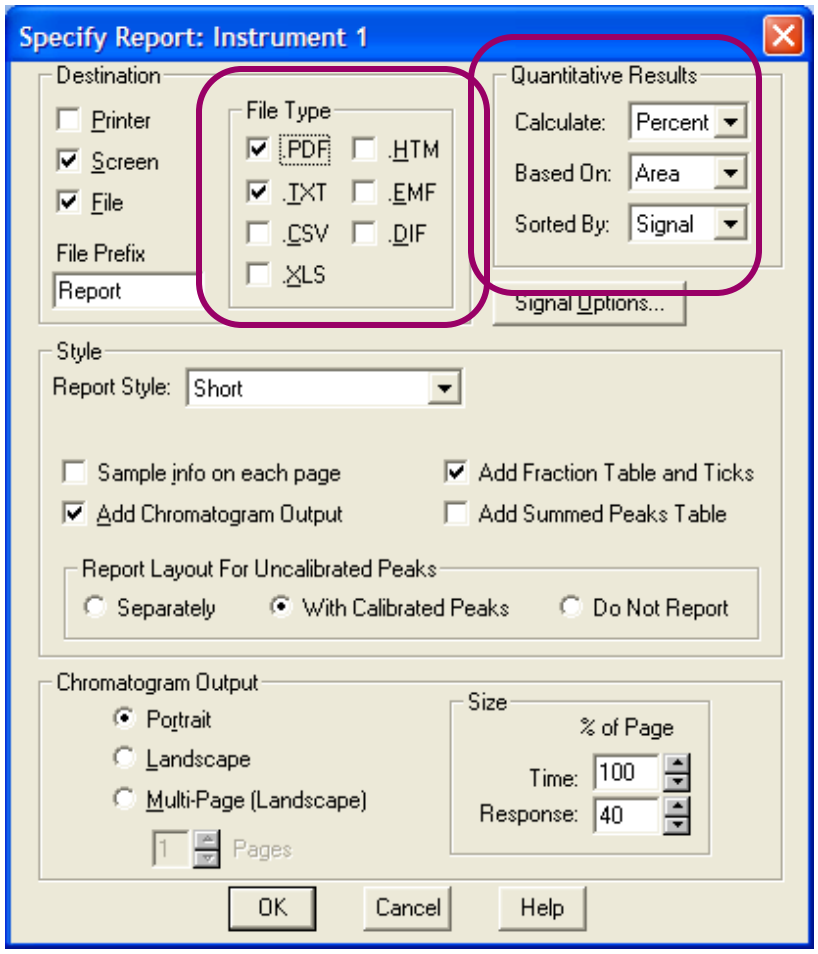
Topics
ChemStation Reports in Data Analysis
General Reports (Single Runs/Sequence Summary)
System Suitability and Noise Caclucations
Spectra Library and Purity Reports
ChemStation Reports in Report Layout (Custom Reports)
Other Reporting Solutions
Agilent New Reporting Solution: OpenLAB Intelligence Reporter

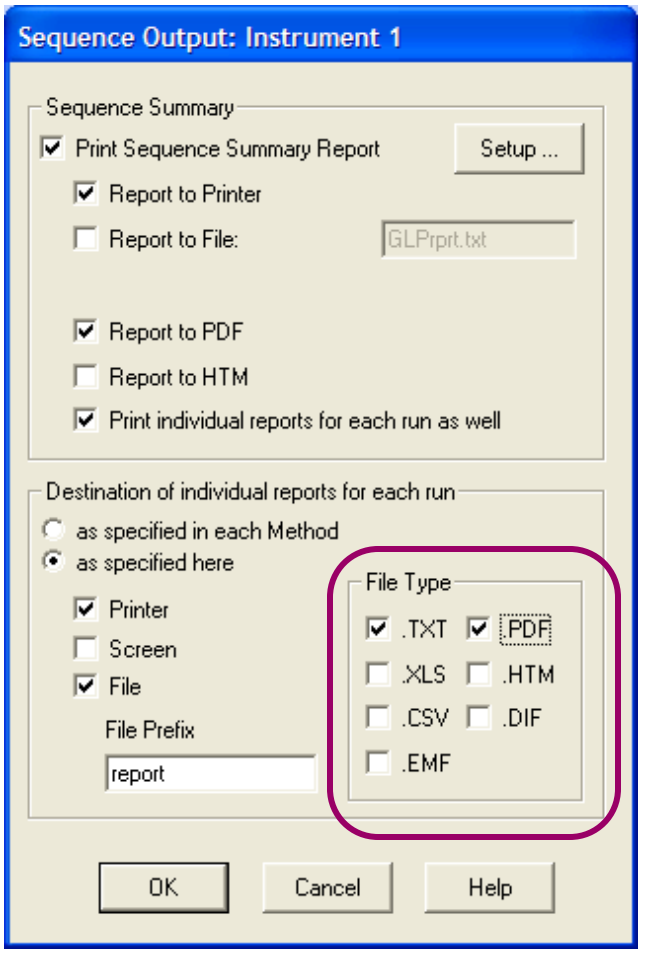
ChemStation Reports in Data Analysis
General Reports (Single Runs/Sequence Summary)

Report Tools

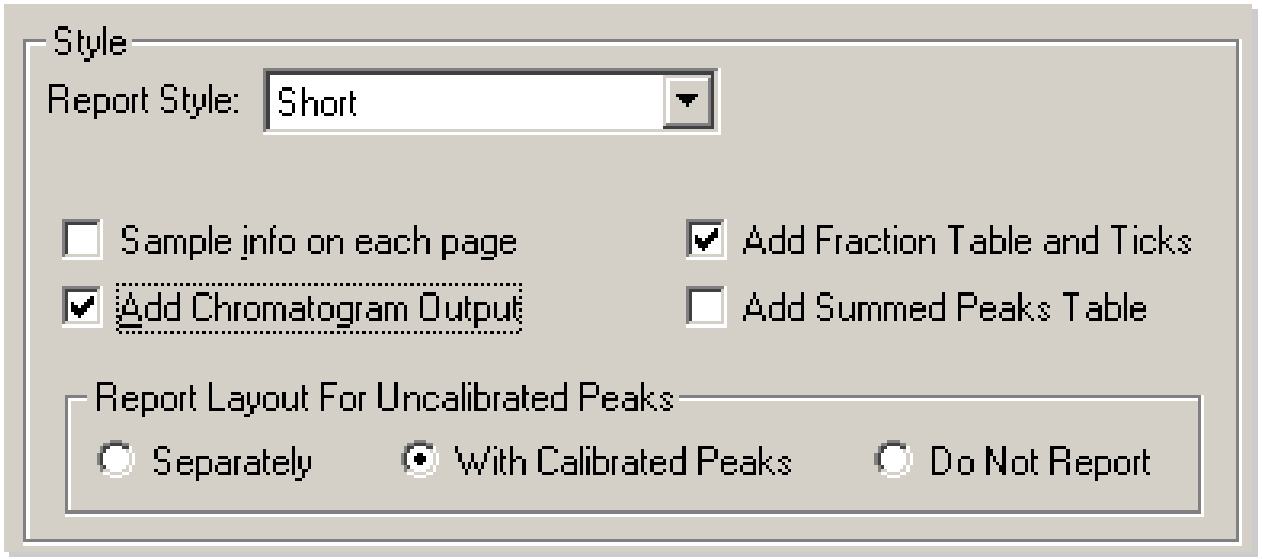


ChemStation (since B.03.01 SR1)





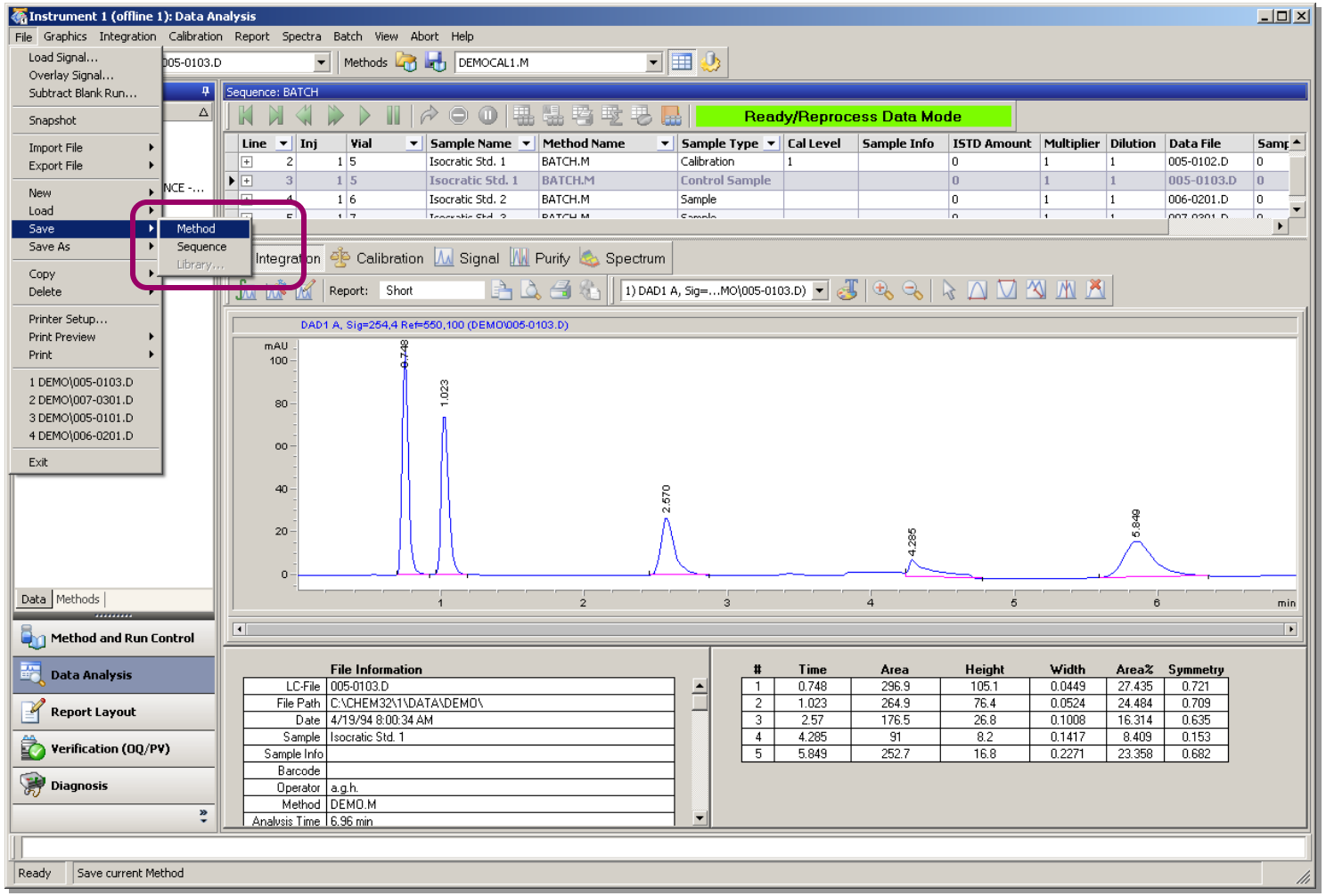
ChemStation Report Styles

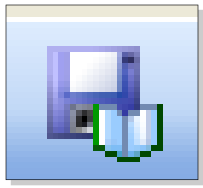


Styles

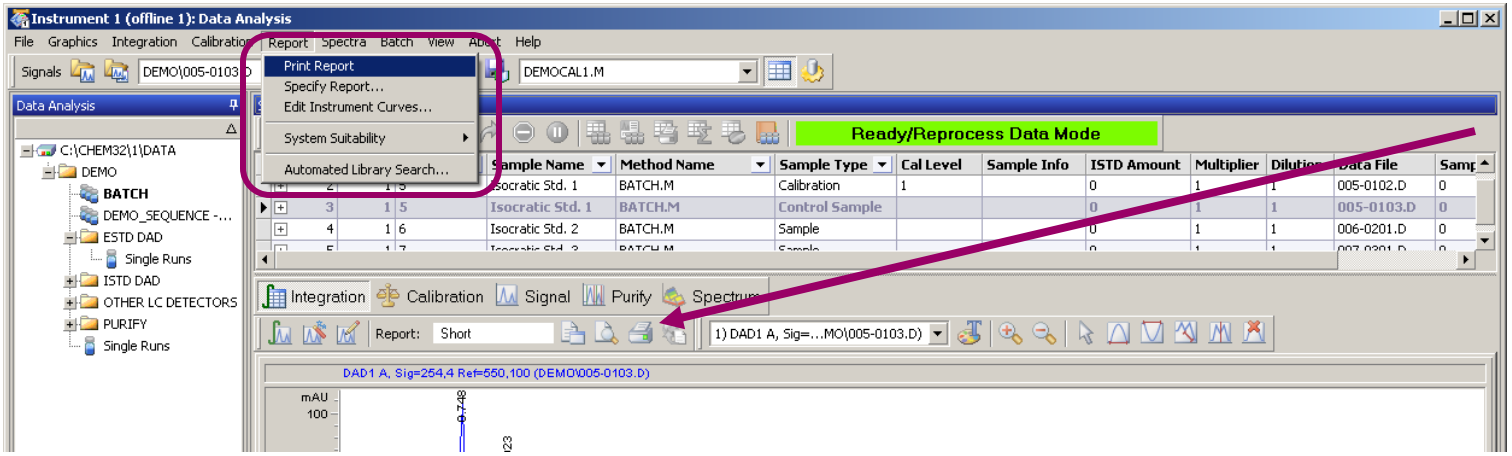
None
Short
Detail
Header + Short
GLP + Short
GLP + Detail
Short + Spectrum
Detail + Spectrum
Full
Library Search
Performance
Performance + Noise
Performance + Lib Search
Extended Performance

Save the Report Parameters with the Method





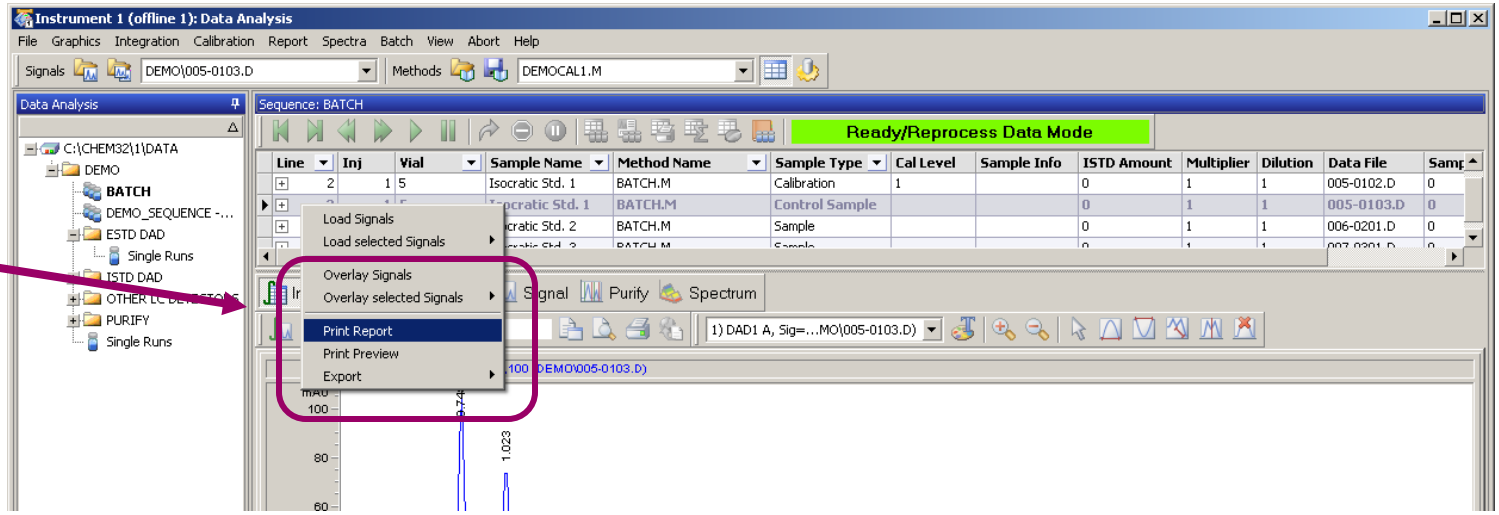
Print Report



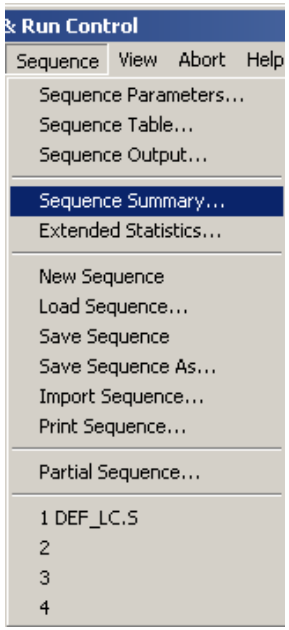
Print Report

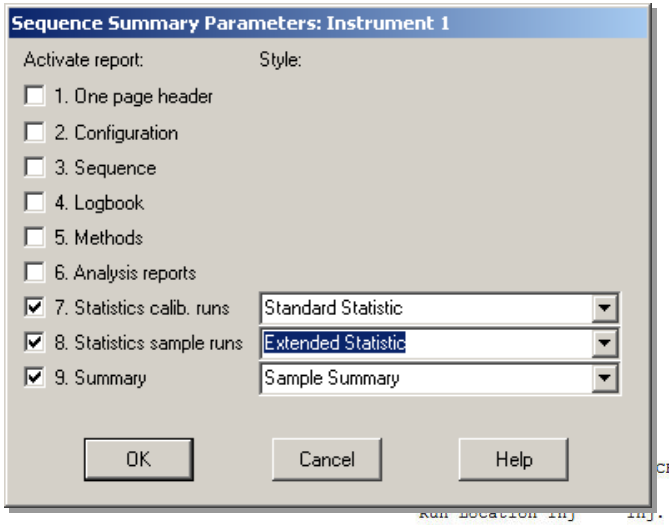


Use right mouse button to access this menu



Sequence Summary Report





CHEM32\1\DATA\DEMO\DEMO_SEQUENCE -2006-02-24-1\ISOCRA.M

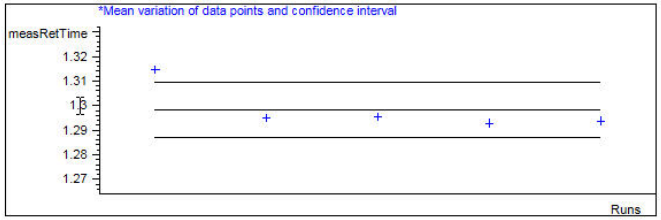
Run #	Location	Inj #	Inj. Date/Time	File Name	Sample Name
1	Vial 1	1	2/27/2006 1:41:39 PM	001-0101.D	isocratic standa
2	Vial 1	1	2/27/2006 1:50:48 PM	001-0201.D	isocratic standa
3	Vial 1	1	2/27/2006 1:59:55 PM	001-0301.D	isocratic standa
4	Vial 1	1	2/27/2006 2:09:10 PM	001-0401.D	isocratic standa
5	Vial 1	1	2/27/2006 2:18:19 PM	001-0501.D	isocratic standa

The „Sequence Summary“ Report reports easy statistic information.

For more complex calculations, you can use ChemStore, Excel or the OpenLAB Intelligence Reporter.

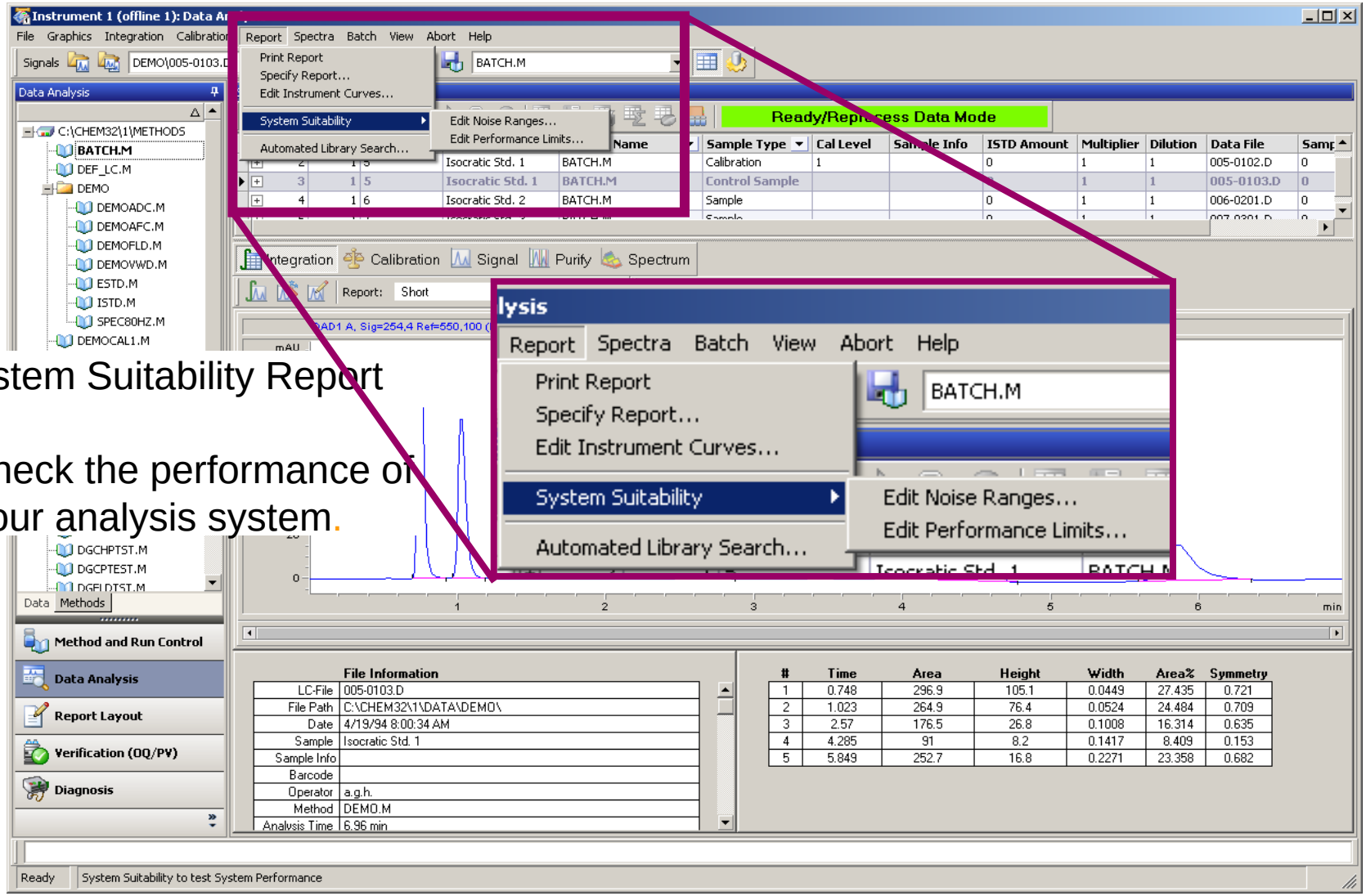
Compound: Dimethylphthalate (Signal: DAD1 A, Sig=254,4 Ref=off)

Run #	RetTime [min]
1	1.31457
2	1.29486
3	1.29530
4	1.29275
5	1.29372
Mean:	1.29824
S.D.:	0.00918
RSD :	0.70737
95% CI:	0.01140



ChemStation Reports in Data Analysis
System Suitability and Noise Caclucations

System Suitability

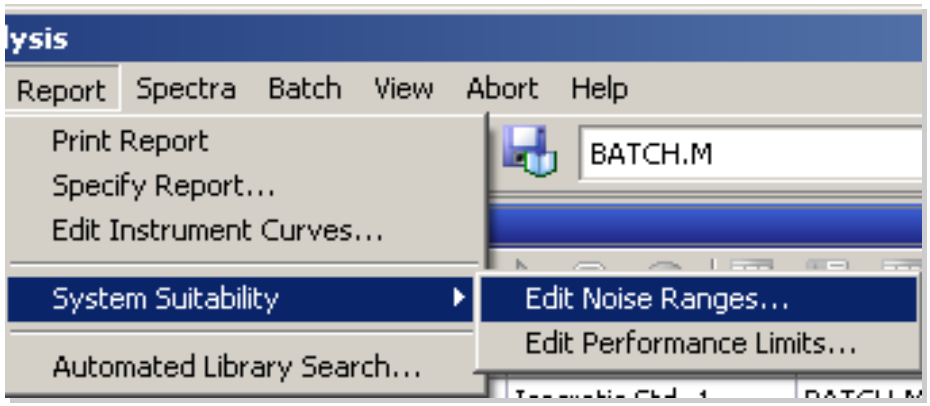


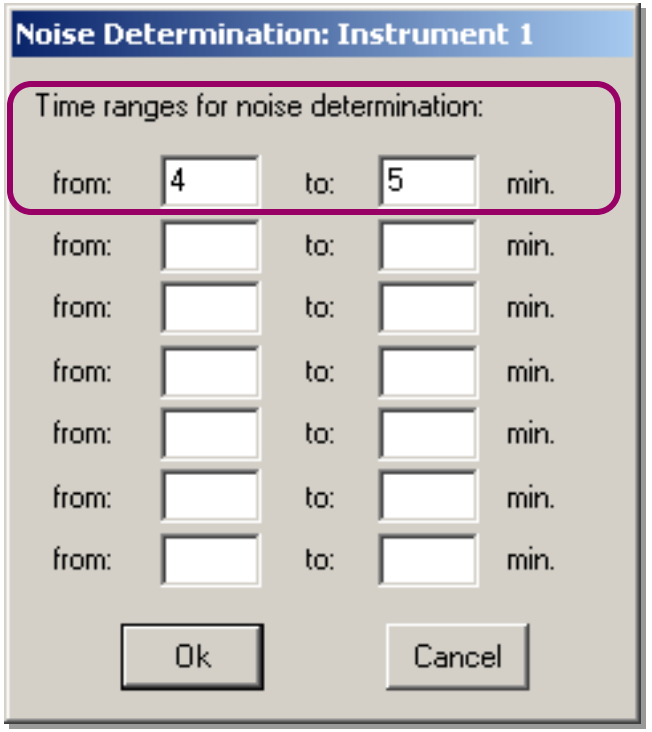
System Suitability Report

✓Check the performance of your analysis system.

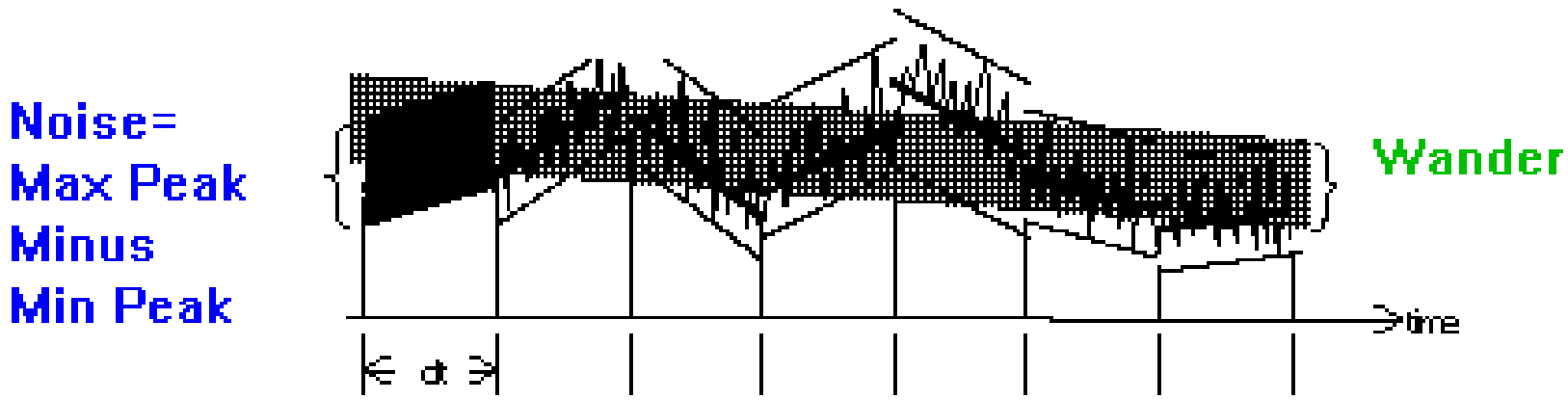
System Suitability - Noise Determination

Baseline noise and drift can be measured automatically.





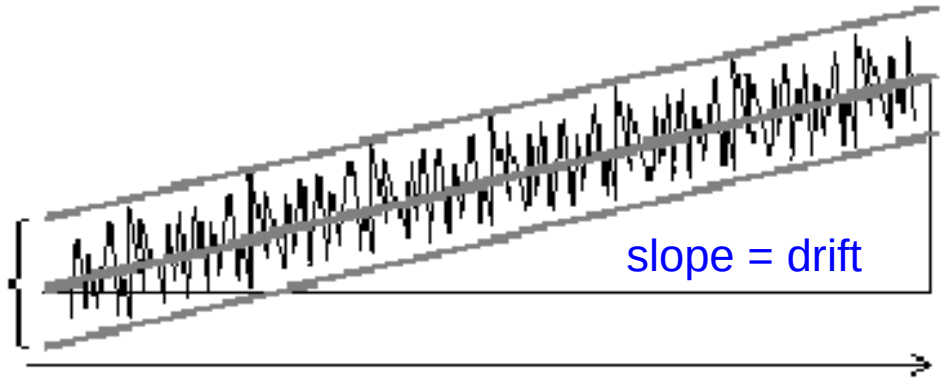
Noise Calculation - ASTM Method



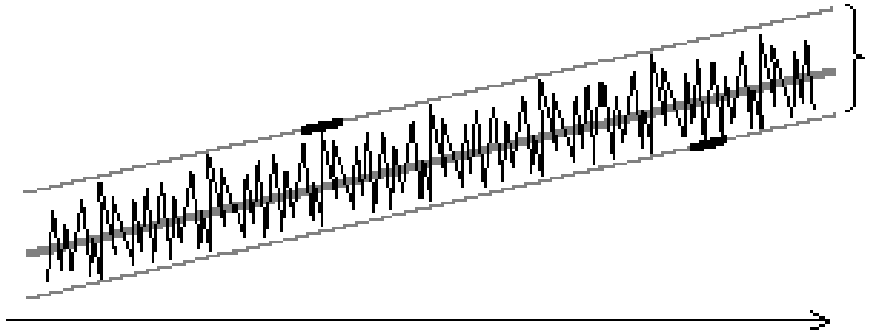
1. Long-term noise - determined when the selected time range exceeds one hour. dt is 10 minutes.
2. Short-term noise - determined when the selected time range is between 10 and 60 minutes. dt is one minute.
3. Very short-term noise - selected time range is from 1 to 10 minutes. dt is 0.1 minute.

Noise Calculation

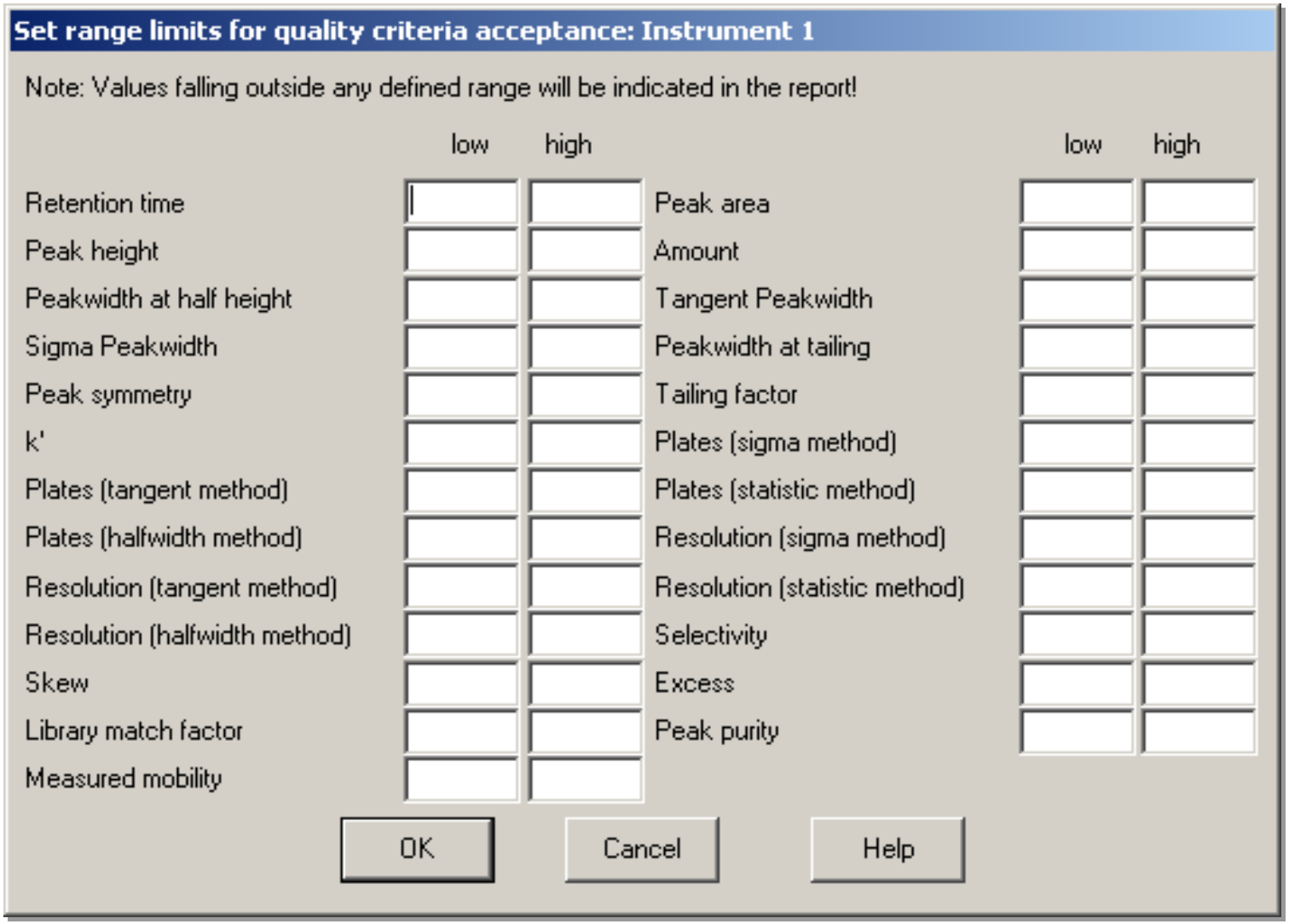
Six times the standard deviation of the linear regression of the drift.



Noise as maximum peak to minimum peak distance



System Suitability - Edit Performance Limits



System Suitability Report Styles

Performance

Produces a report according to limits specified in the Edit Performance Limits dialog box.

retention time	true half-height peak width
peak area	capacity factor (k')
peak height	efficiency
symmetry	resolution

Performance + Lib Search

Combines the Performance and Library Search styles.

Performance + Noise

Combines Performance report style with Noise calculations for the noise ranges defined in the Edit Noise Range dialog box.

Calculates signal/noise ratios.

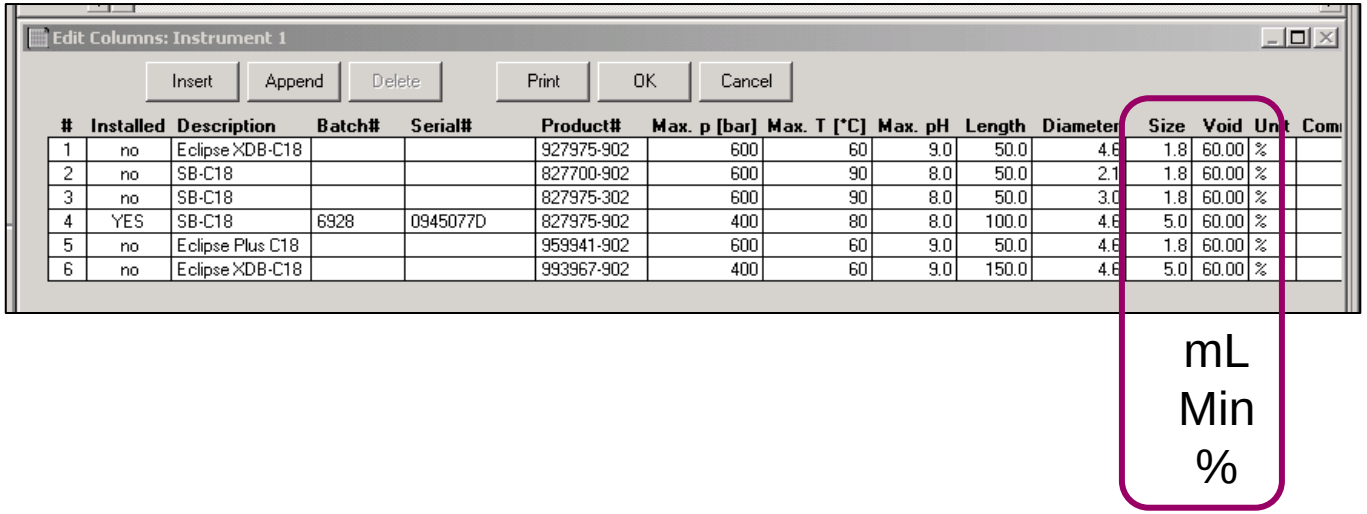
Extended Performance

Produces an Extended report with all parameters from the peak performance calculations and individual plots of each peak. This report style includes only calibrated peaks.

Column Identification Module for System Suitability Reporting



Before the data is acquired, specify void time or volume. It is not possible to add this information later on.

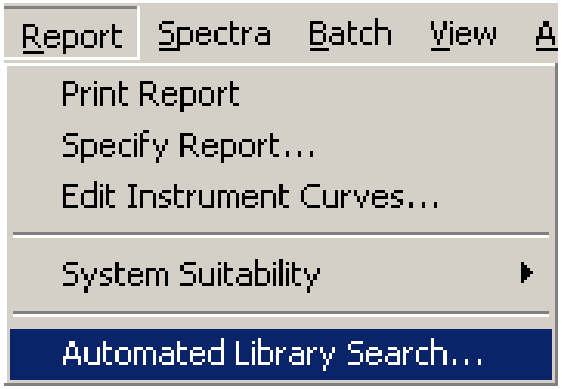


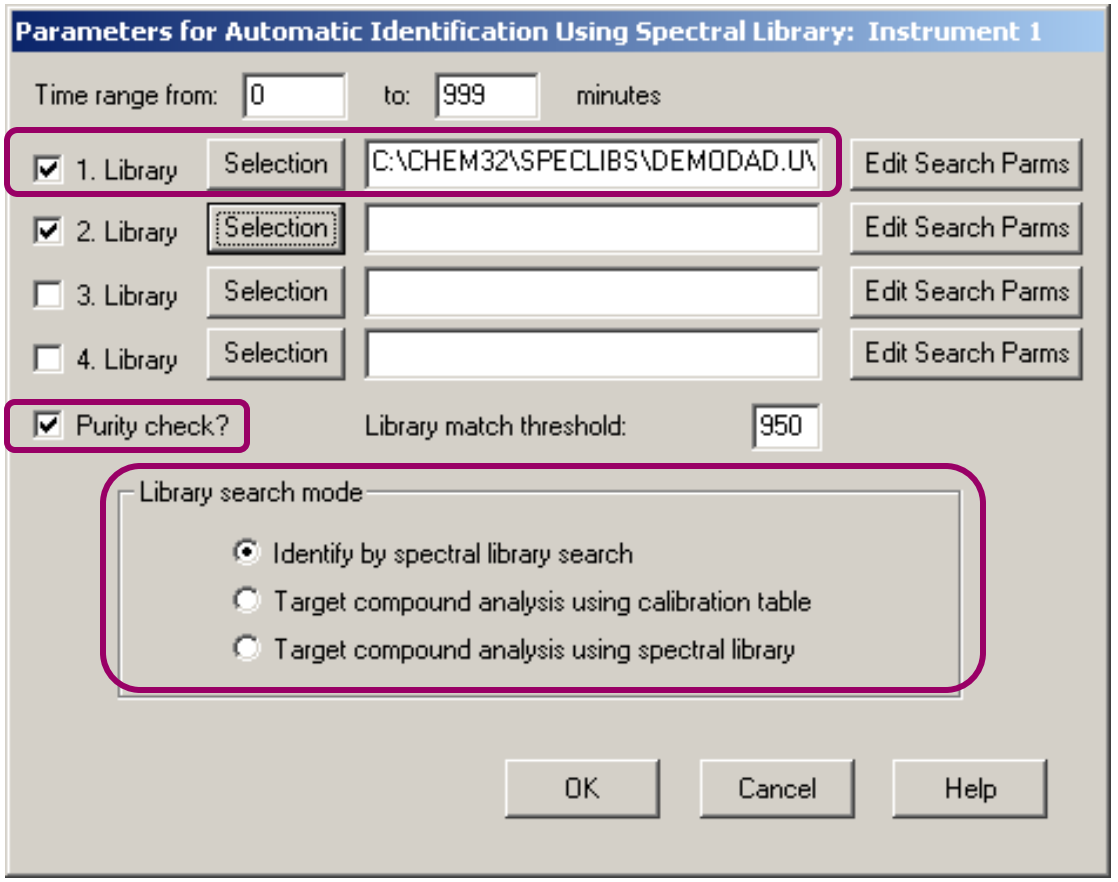
#	Installed	Description	Batch#	Serial#	Product#	Max. p [bar]	Max. T [°C]	Max. pH	Length	Diameter	Size	Void	Unit	Com
1	no	Eclipse XDB-C18			927975-902	600	60	9.0	50.0	4.6	1.8	60.00	%	
2	no	SB-C18			827700-902	600	90	8.0	50.0	2.1	1.8	60.00	%	
3	no	SB-C18			827975-302	600	90	8.0	50.0	3.0	1.8	60.00	%	
4	YES	SB-C18	6928	0945077D	827975-902	400	80	8.0	100.0	4.6	5.0	60.00	%	
5	no	Eclipse Plus C18			959941-902	600	60	9.0	50.0	4.6	1.8	60.00	%	
6	no	Eclipse XDB-C18			993967-902	400	60	9.0	150.0	4.6	5.0	60.00	%	

ChemStation Reports in Data Analysis

Spectra Library and Purity Reports

Automated Library Search





Library Search Report Styles

Meas. RetTime [min]	Library Rettime [min]	CalTbl Rettime [min]	Sig	Area %	Purity Factor		#	Library Match		Name
1.396	1.571	-	1	0.36218	734	d	1	166	x	Biphenyl
4.654	4.647	-	1	1.51302	1000	u	1	47	x	Acenaphthylene
4.654	4.727	-	1	1.51302		-	1	1000		? Triphenylene
4.654	4.727	-	1	1.51302	1000	d	1	1000		Triphenylene
5.344	5.211	-	1	1.48835	1000		1	999		Cyclopenta[c,d]pyrene
5.607	5.632	-	1	3.30697	1000		1	994		Benz[a]anthracene
5.915	5.821	-	1	1.46908	1000	u	1	996		Chrysene
5.915	6.226	-	1	1.46908	1000	d	1	43	x	Anthracene
5.915	5.821	-	1	1.46908		-	1	996		? Chrysene
6.454	6.321	-	1	2.73481	1000		1	997		Benzo[b]naphtho[2,1-cd]thiophene
6.974	6.795	-	1	3.70405	968	u	1	866	x	Benzo[j]fluoranthene
6.974	6.732	-	1	3.70405	968	d	1	999		Benzo[e]pyrene
7.215	7.198	-	1	1.39044	999		1	999		Benzo[b]fluoranthene
7.794	7.702	-	1	5.02372	953	u	1	999		Dibenz[a,c]anthracene
7.794	7.901	-	1	5.02372	953	d	1	441	x	Benzo[k]fluoranthene
8.312	8.221	-	1	3.13615	1000	u	1	993		Benzo[a]pyrene
8.312	8.562	-	1	3.13615	1000	d	1	13	x	Pyrene
8.312	8.221	-	1	3.13615		-	1	992		? Benzo[a]pyrene

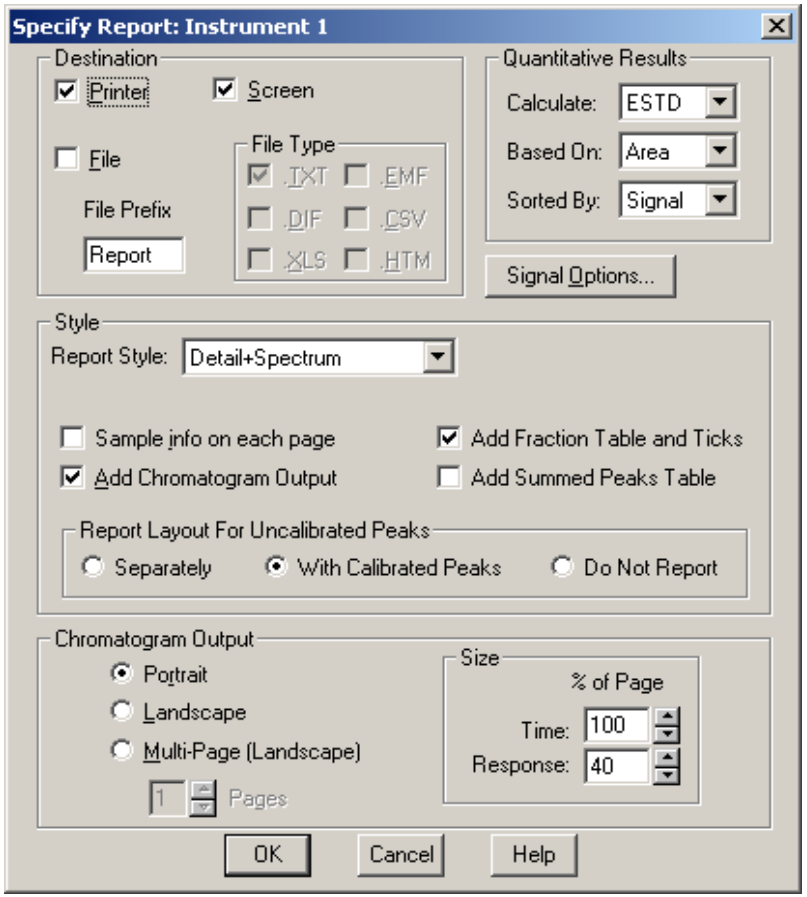
u - compound identified at the upslope, Purity factor exceeds threshold.

d - compound identified at the downslope, Purity factor exceeds threshold.

x - the value is below the defined threshold

? - this is a second proposal for the compound in the line above

Automated Peak Purity Analysis



Short + Spectrum

- Instrument Conditions
- Chromatogram
- Peak Purity Plots
- Quantitative Results

Detail + Spectrum

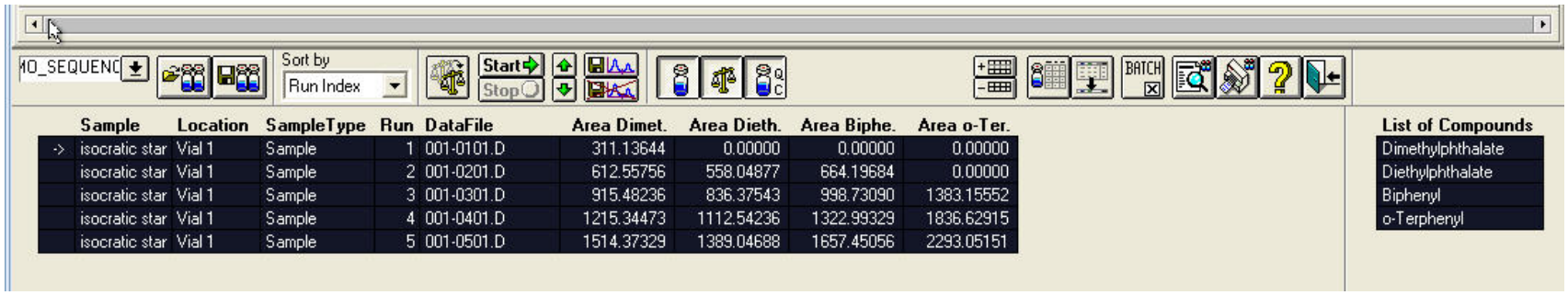
- Header RPTHEAD.TXT
- Instrument Conditions
- Chromatogram
- Quantitative Results
- Calibration Curves
- Peak Purity Plots

Full

- GLP + Detail + Spectrum

Using Batch for Reporting

	Sample	Location	SampleTyp	Run	DataFile	Area Dimet.	Area Dieth.	Area Biphe.	Area o-Ter.
->	isocratic s	Vial 1	Sample	1	001-0101.D	**311.14**	**0.00**	**0.00**	**0.00**
	isocratic s	Vial 1	Sample	2	001-0201.D	**612.56**	**558.05**	**664.20**	**0.00**
	isocratic s	Vial 1	Sample	3	001-0301.D	**915.48**	**836.38**	**998.73**	**1383.16**
	isocratic s	Vial 1	Sample	4	001-0401.D	**1215.34**	**1112.54**	**1322.99**	**1836.63**
	isocratic s	Vial 1	Sample	5	001-0501.D	**1514.37**	**1389.05**	**1657.45**	**2293.05**

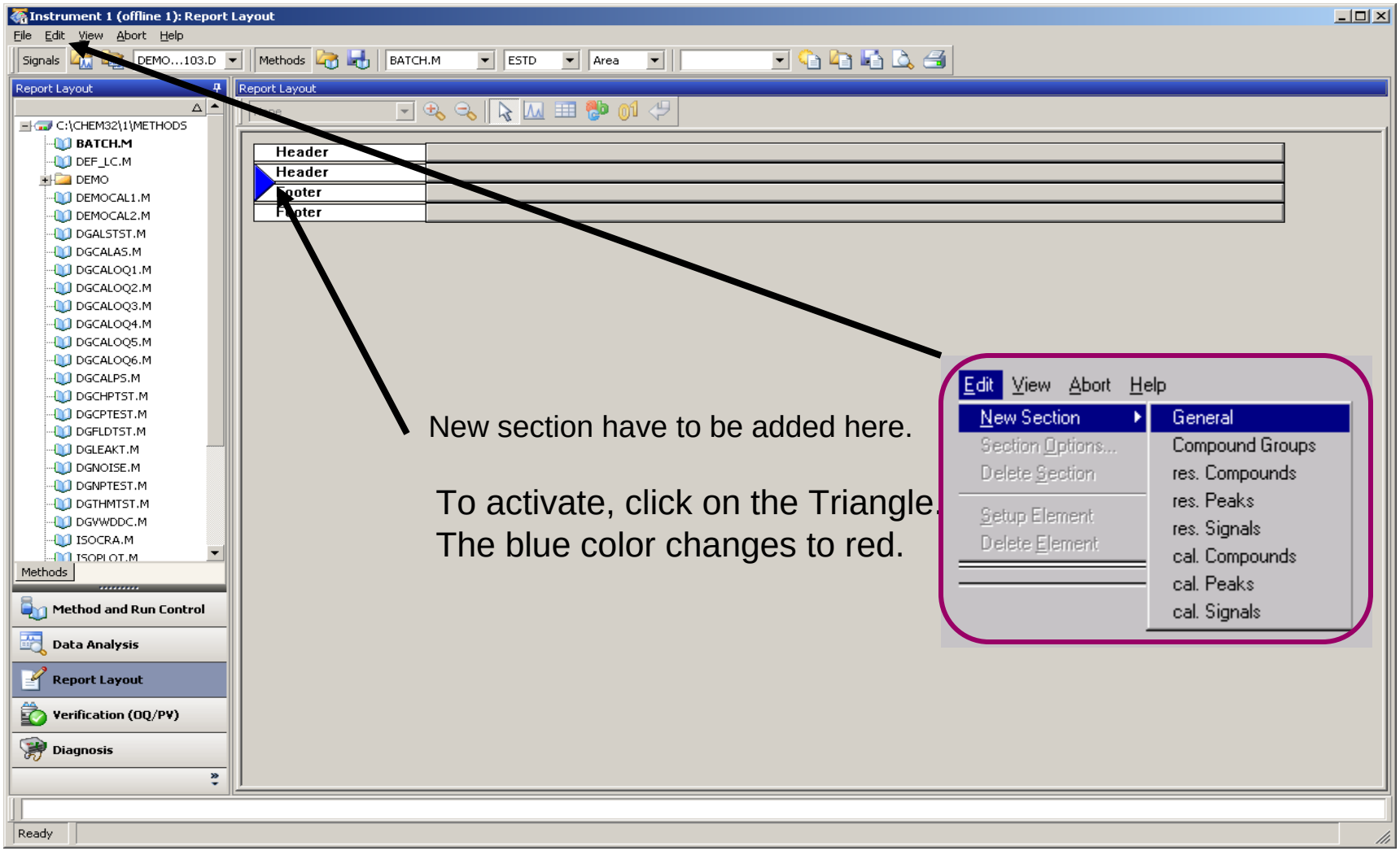


Using the combination CTRL+C und CTRL+V it is possible to directly copy/paste the Batch Table into Excel.

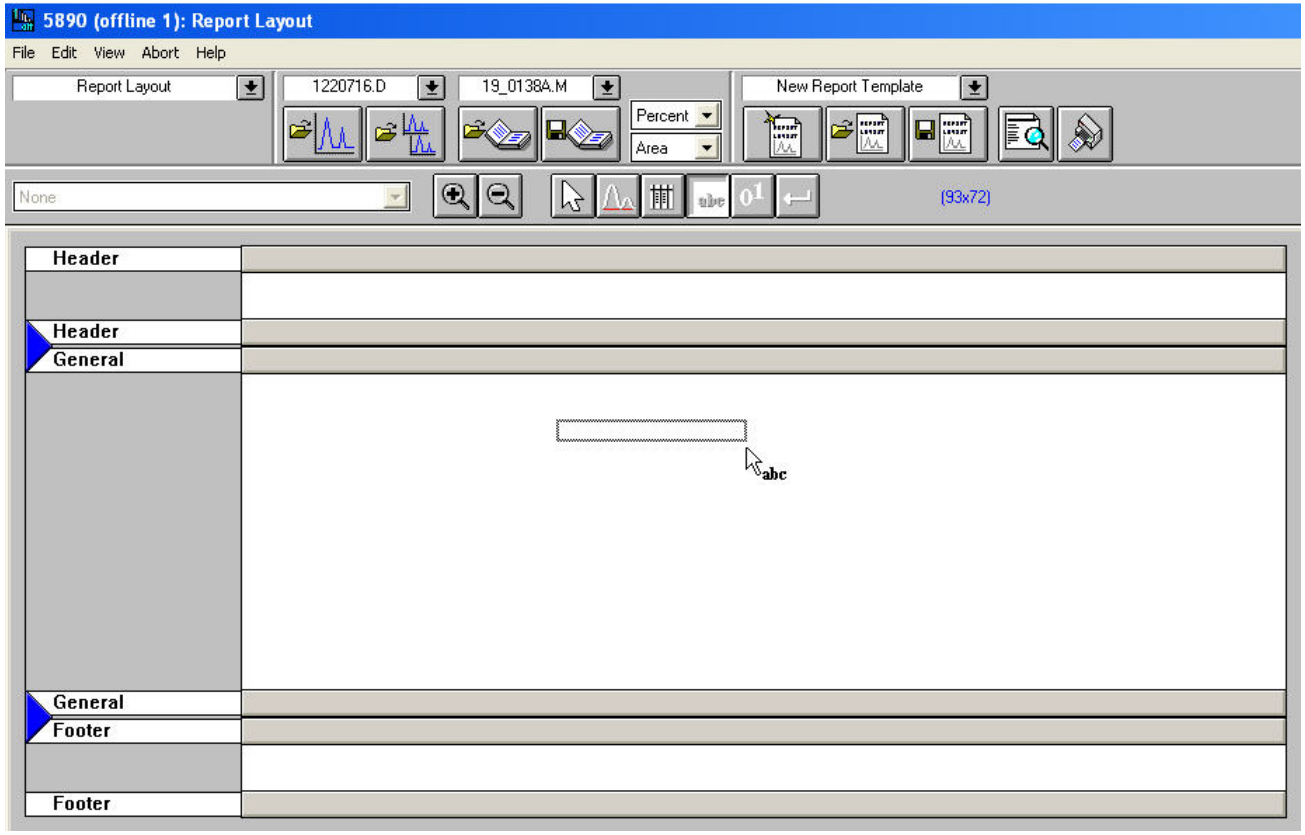
Using the Batch Output, the resulting report (Batch summary report with some statistics) is extracted to an Excel file. The ChemStation exports the Dezimal Point, not the comma – so depending on your localizate Excel version a modification is mandatory.

ChemStation Reports in Report Layout (Custom Reports)

Report Layout



Open a section in the Report Layout

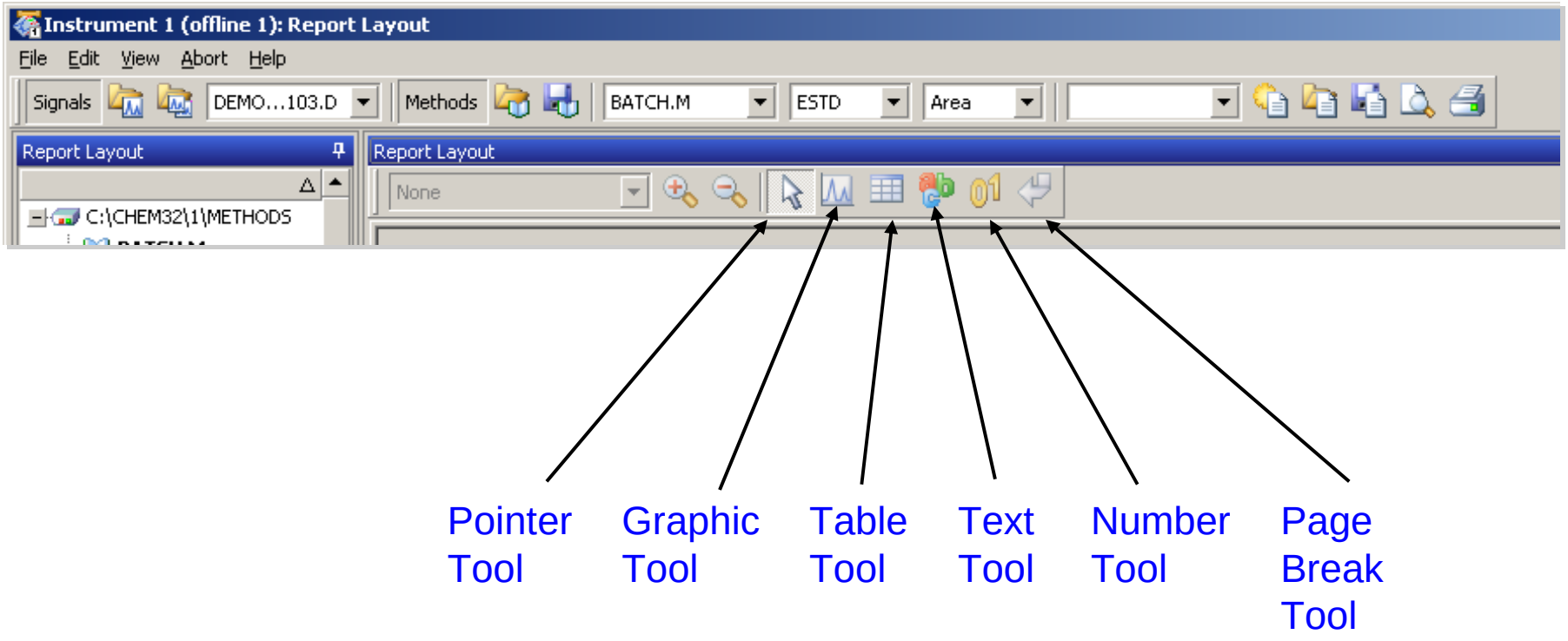


Identify the position of each section by moving the lower border

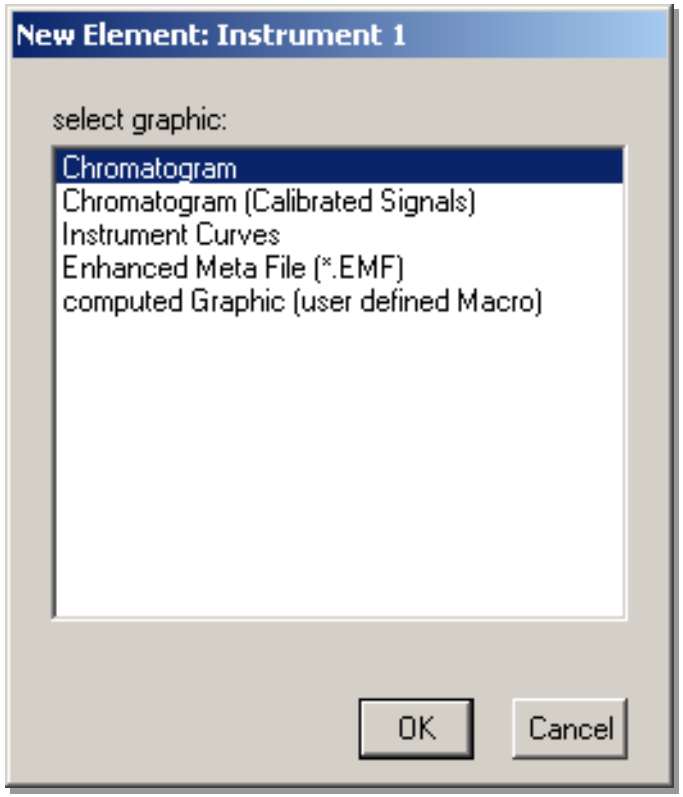
„Header“ and „Footer“ are sections repeating on each report page.

Layout Tools

Use report designer tools to edit the report template. You can activate any of the tools by clicking on the icon in the tool bar.



Graphic Tool

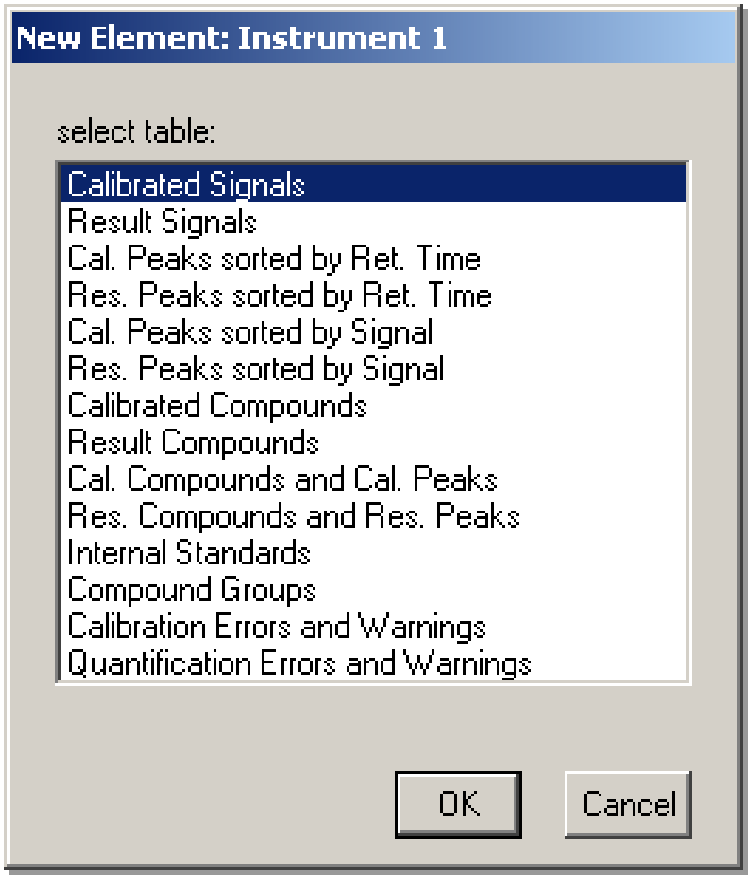


To insert elements:

- Create enough white space to insert the graphic, e.g chromatogram.
- Select the graphic tool.
- Click and drag a placeholder box.
- Select the desired graphic from the list of elements.

Table Tool




New Element: Instrument 1
select table:
Calibrated Signals
Result Signals
Cal. Peaks sorted by Ret. Time
Res. Peaks sorted by Ret. Time
Cal. Peaks sorted by Signal
Res. Peaks sorted by Signal
Calibrated Compounds
Result Compounds
Cal. Compounds and Cal. Peaks
Res. Compounds and Res. Peaks
Internal Standards
Compound Groups
Calibration Errors and Warnings
Quantification Errors and Warnings
OK
Cancel

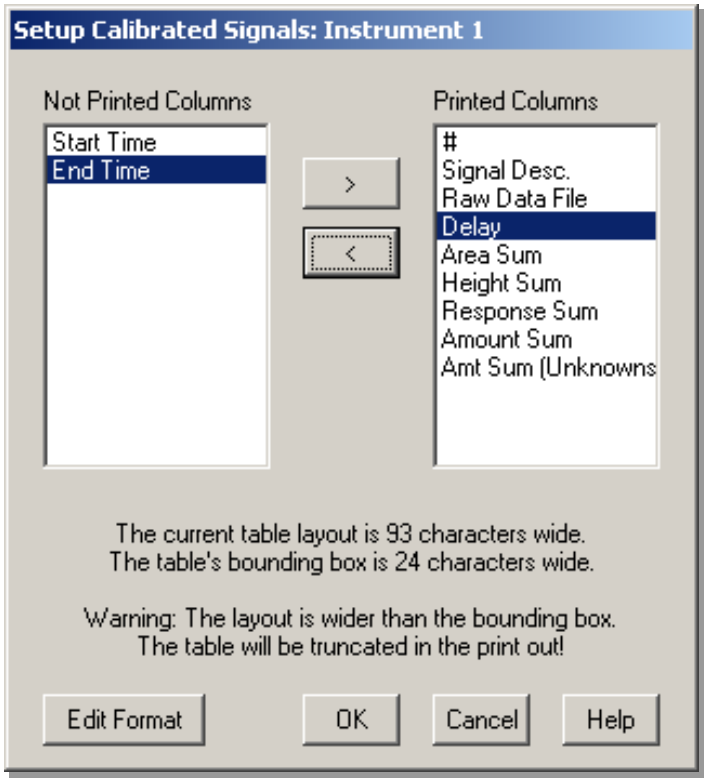
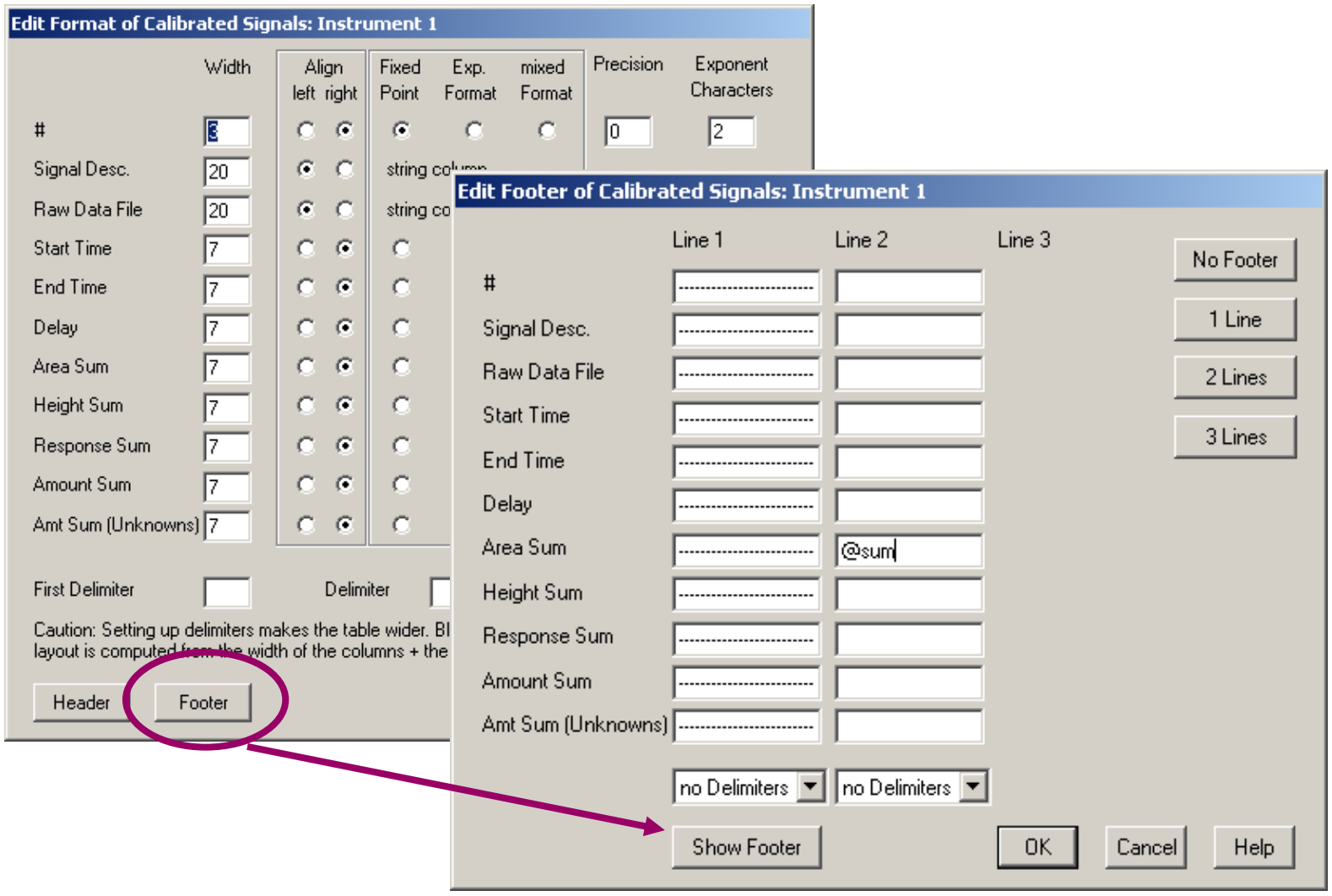
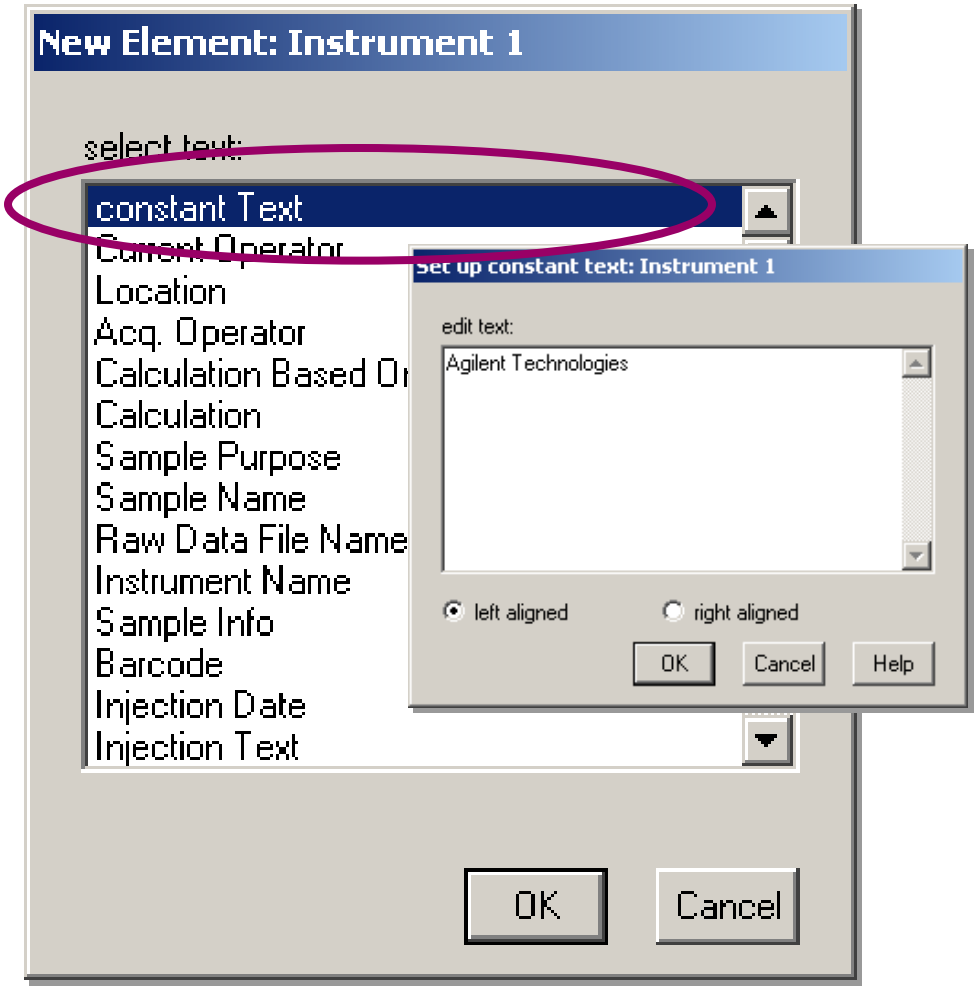

Setup Calibrated Signals: Instrument 1
Not Printed Columns
Start Time
End Time
>
<
Printed Columns
#
Signal Desc.
Raw Data File
Delay
Area Sum
Height Sum
Response Sum
Amount Sum
Amt Sum (Unknowns
The current table layout is 93 characters wide.
The table's bounding box is 24 characters wide.
Warning: The layout is wider than the bounding box.
The table will be truncated in the print out!
Edit Format
OK
Cancel
Help

Table Tool

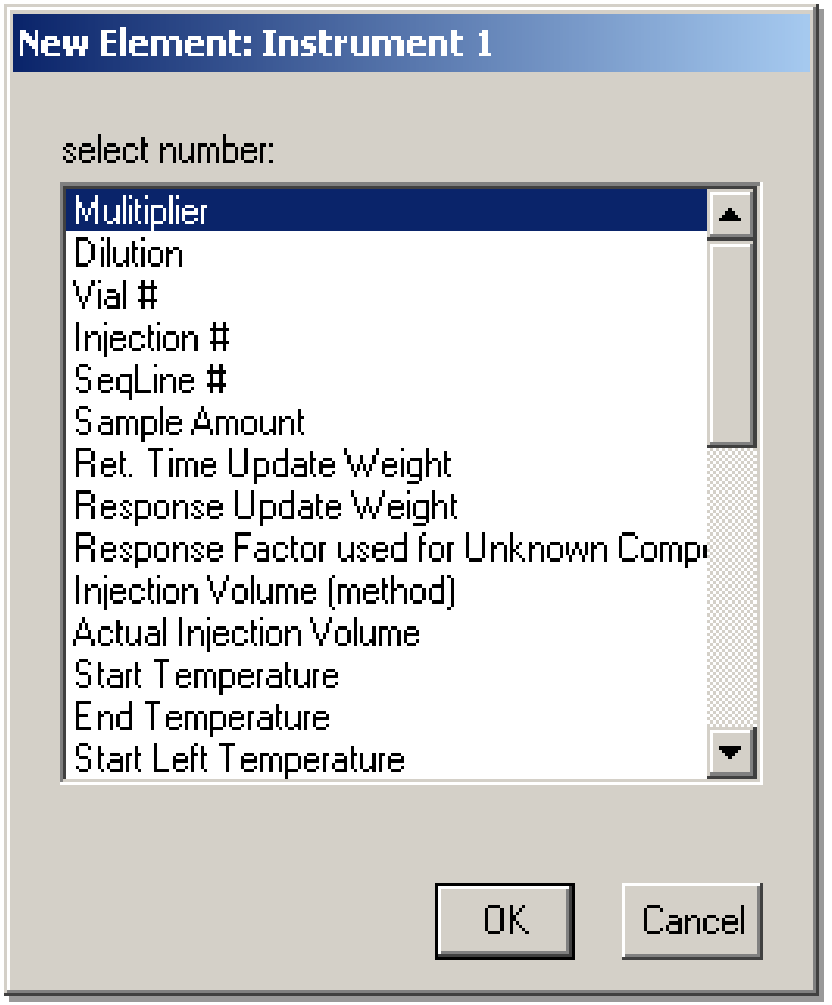

Edit Format of Calibrated Signals: Instrument 1
Width
Align left right
Fixed Point
Exp. Format
mixed Format
Precision
Exponent Characters
#
Signal Desc.
Raw Data File
Start Time
End Time
Delay
Area Sum
Height Sum
Response Sum
Amount Sum
Amt Sum (Unknowns)
First Delimiter
Delimiter
Caution: Setting up delimiters makes the table wider. Bl
layout is computed from the width of the columns + the
Header
Footer
Edit Footer of Calibrated Signals: Instrument 1
Line 1
Line 2
Line 3
@sum
No Footer
1 Line
2 Lines
3 Lines
no Delimiters
no Delimiters
Show Footer
OK
Cancel
Help

Text and Number Tools





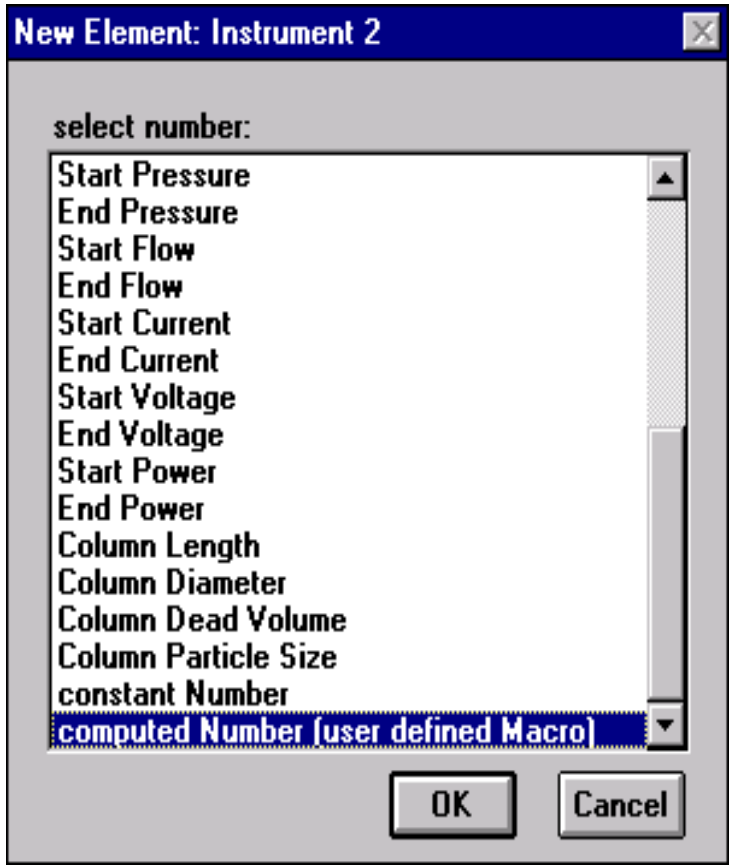


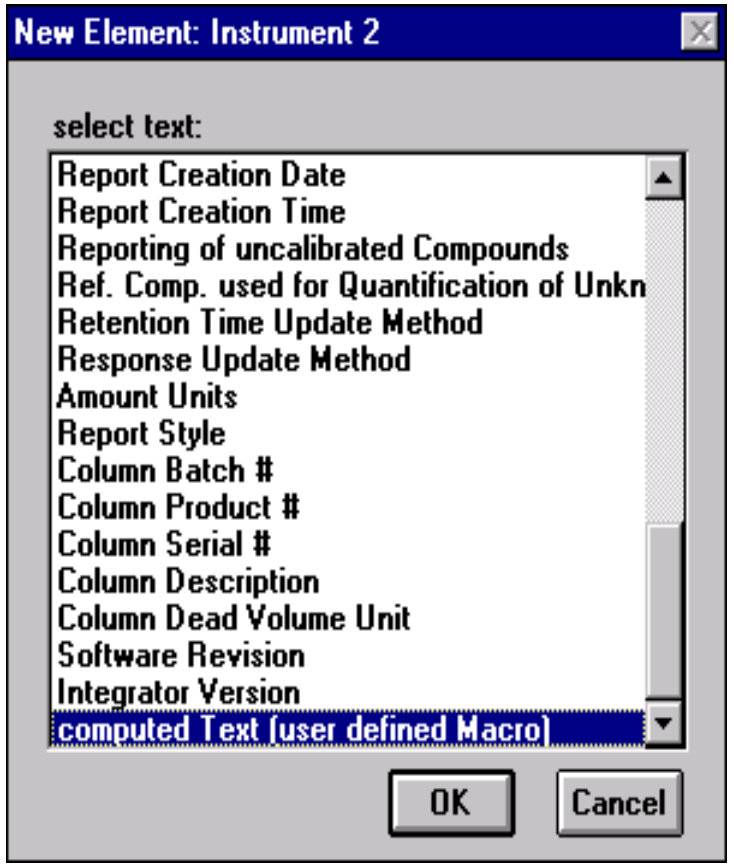


Adding Calculations and Macros

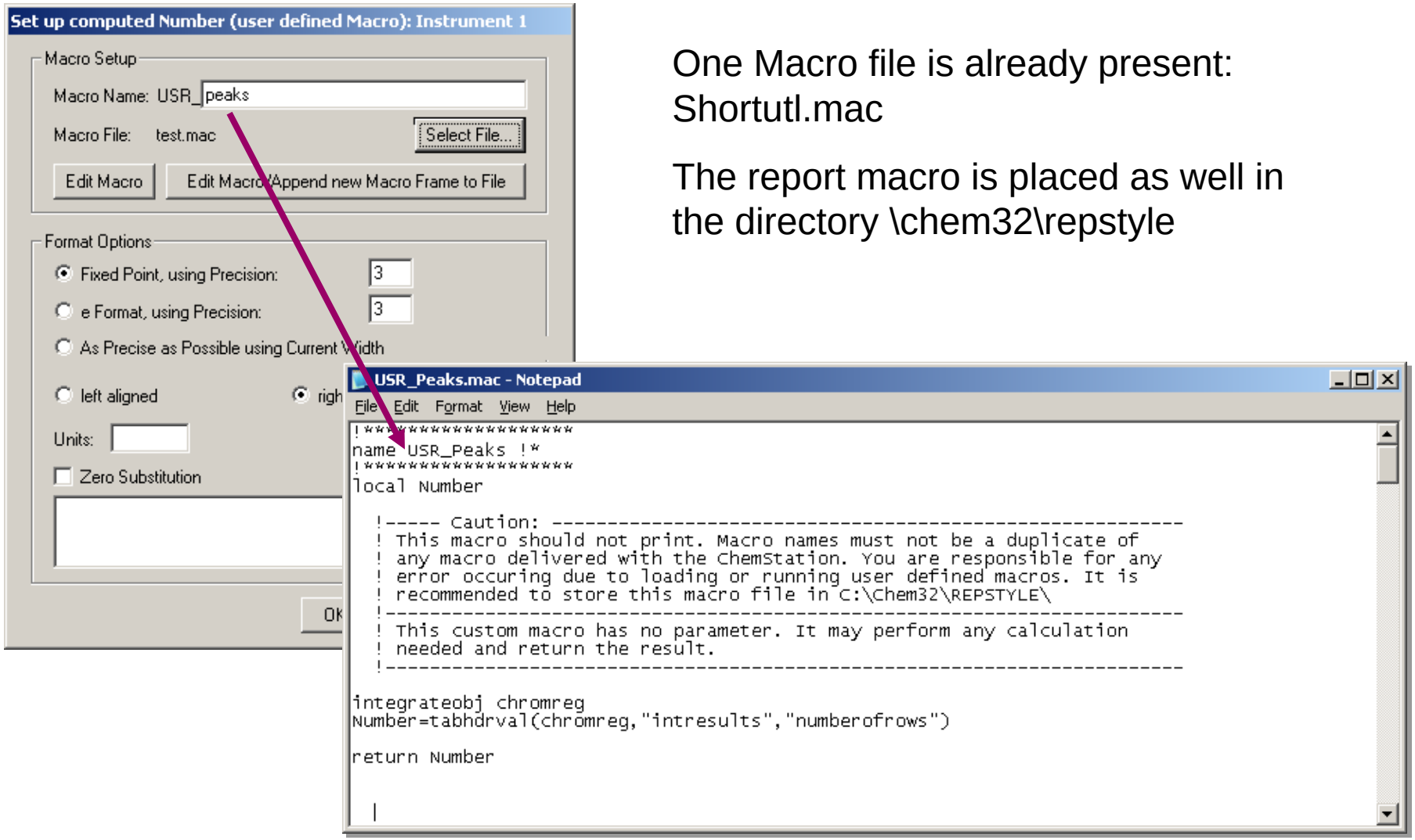








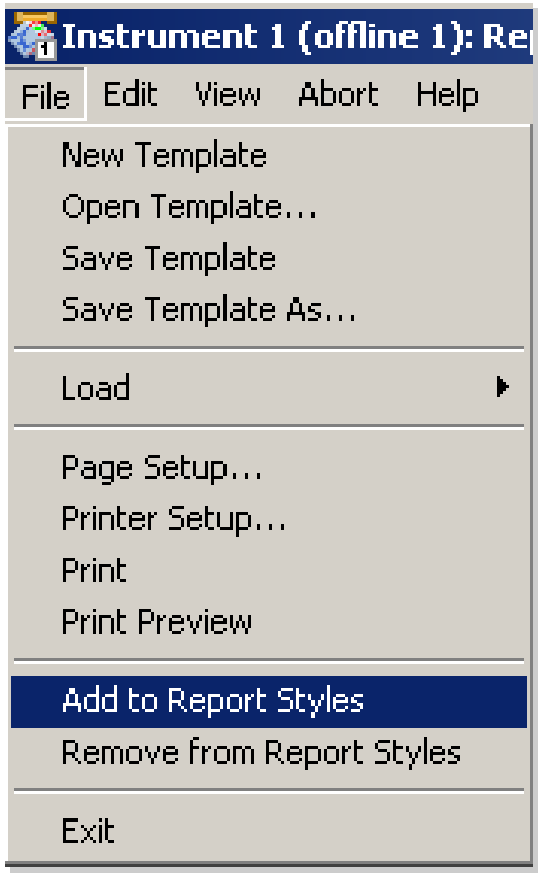
Adding Calculations and Macros

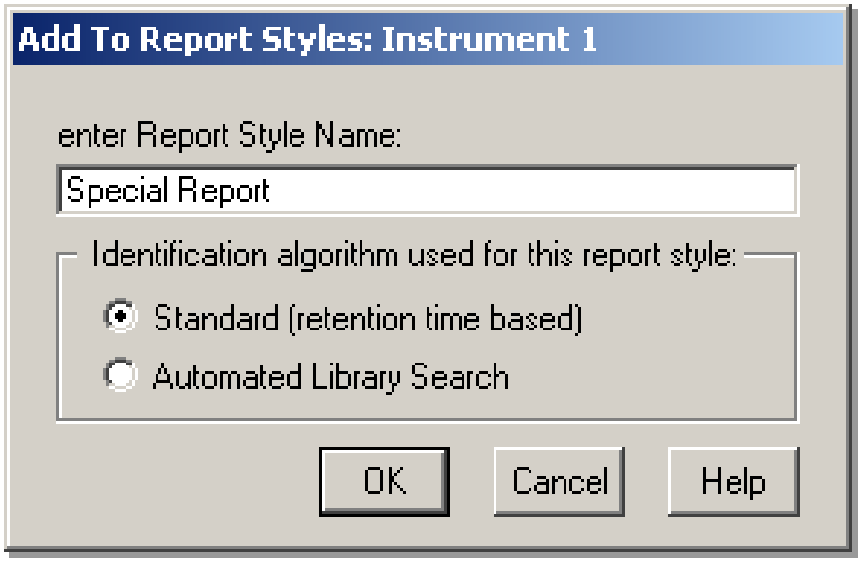


One Macro file is already present: Shortutl.mac

The report macro is placed as well in the directory \chem32\repstyle

Add the Custom Report Style to the Existing Report Styles





First Save the Template, and than add it to the report styles. This new report style is then present in the „Specifiy Report“ in the Data Analysis View for selection.

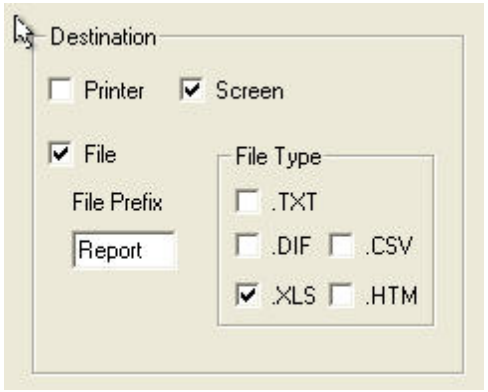
Other Custom Reporting Solutions

Using Excel within ChemStation

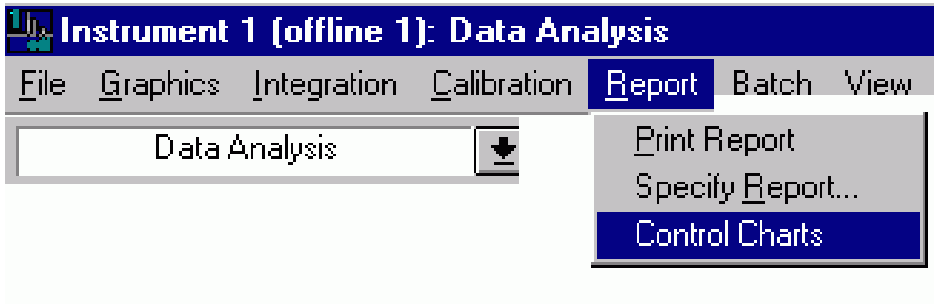
Multiple workflows with Excel/csv Files are implemented:

- Export of analytic data to *.csv or *.xls

	A	B	C	D	E	F	G
1	HeaderNar	HeaderVal	Sample	Dimethylphthalate|Area	Diethylphthalate|Area	Biphenyl|Area	o-Terphenyl|Area
2	NumberOf	5	isocratic standard	311.1364441	0	0	0
3	NumberOf	5	isocratic standard	612.5575562	558.0487671	664.1968384	0
4	NumberOf	4	isocratic standard	915.4823608	836.3754272	998.730896	1383.155518
5	Modified	1	isocratic standard	1215.344727	1112.542358	1322.993286	1836.62915
6			isocratic standard	1514.373291	1389.046875	1657.450562	2293.051514
7							
8							

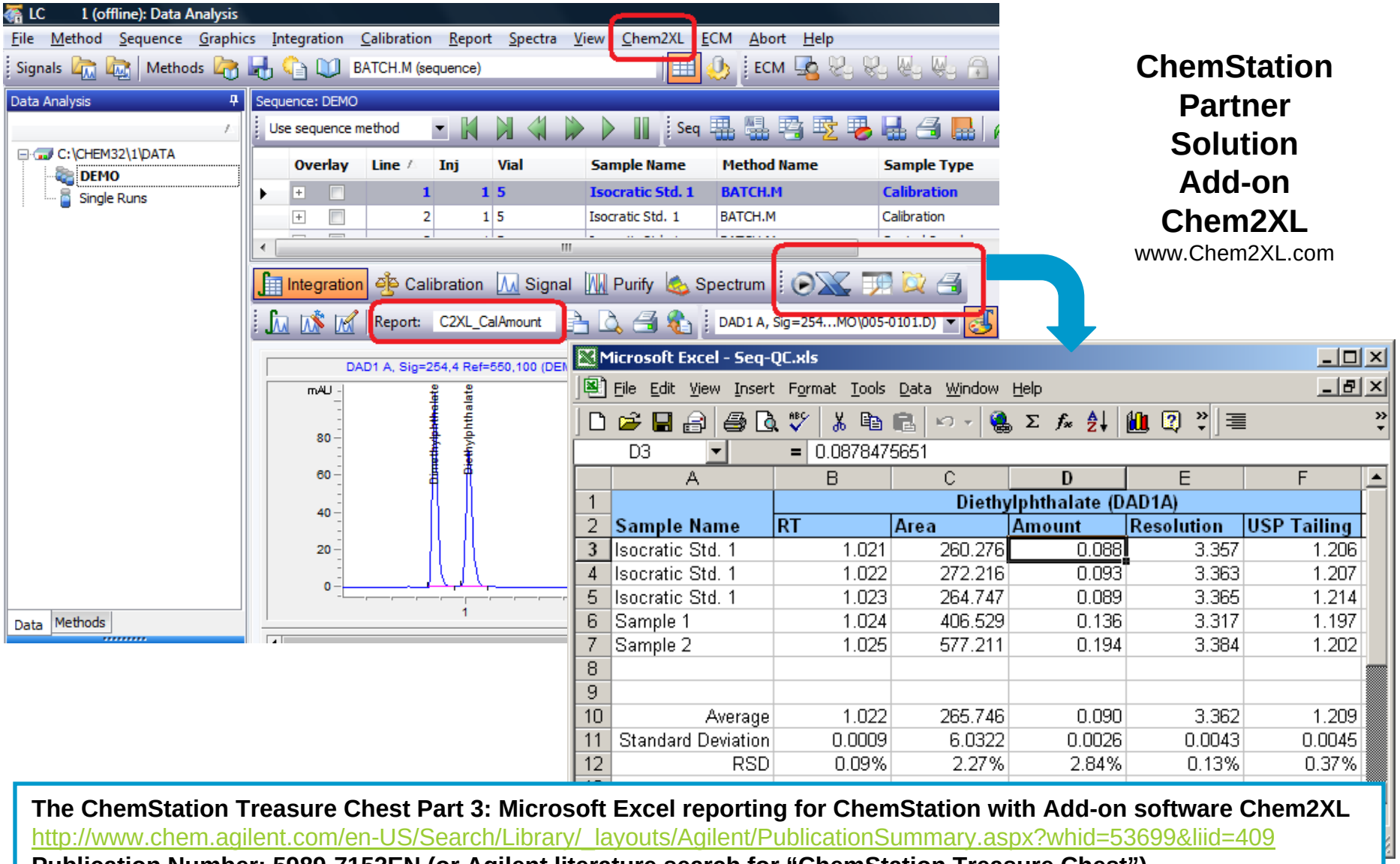


- Macro Solution Control Charts



- Macro Solution Excel Reports

The ChemStation Treasure Chest Part 3



	A	B	C	D	E	F
1		Diethylphthalate (DAD1A)				
2	Sample Name	RT	Area	Amount	Resolution	USP Tailing
3	Isocratic Std. 1	1.021	260.276	0.088	3.357	1.206
4	Isocratic Std. 1	1.022	272.216	0.093	3.363	1.207
5	Isocratic Std. 1	1.023	264.747	0.089	3.365	1.214
6	Sample 1	1.024	406.529	0.136	3.317	1.197
7	Sample 2	1.025	577.211	0.194	3.384	1.202
8						
9						
10	Average	1.022	265.746	0.090	3.362	1.209
11	Standard Deviation	0.0009	6.0322	0.0026	0.0043	0.0045
12	RSD	0.09%	2.27%	2.84%	0.13%	0.37%

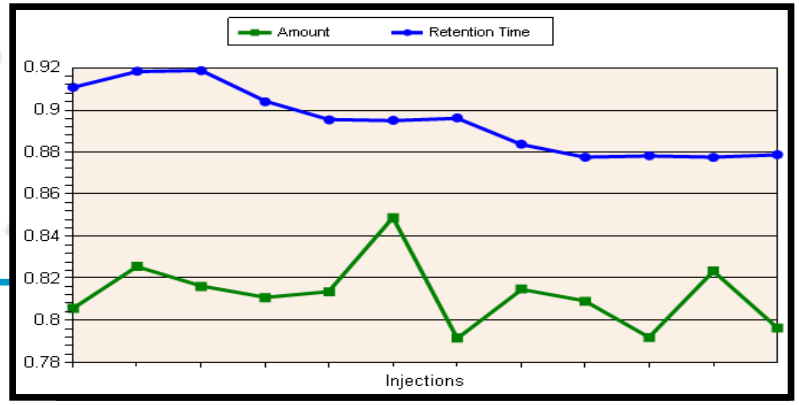
ChemStation Partner Solution Add-on Chem2XL
www.Chem2XL.com

The ChemStation Treasure Chest Part 3: Microsoft Excel reporting for ChemStation with Add-on software Chem2XL
http://www.chem.agilent.com/en-US/Search/Library/_layouts/Agilent/PublicationSummary.aspx?whid=53699&liid=409
Publication Number: 5989-7152EN (or Agilent literature search for "ChemStation Treasure Chest")









Steve Brown
Agilent Technologies

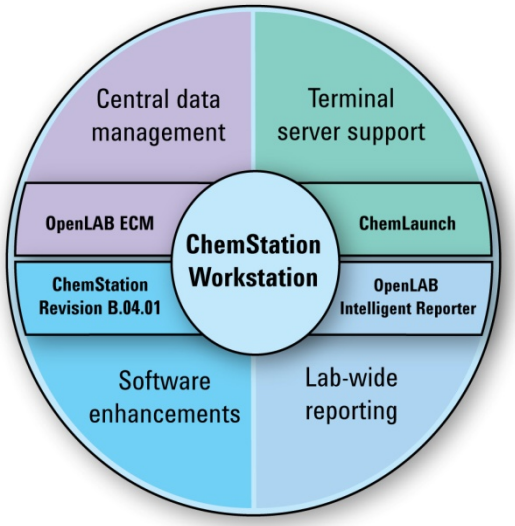
ChemStation B.04.01 Family of products

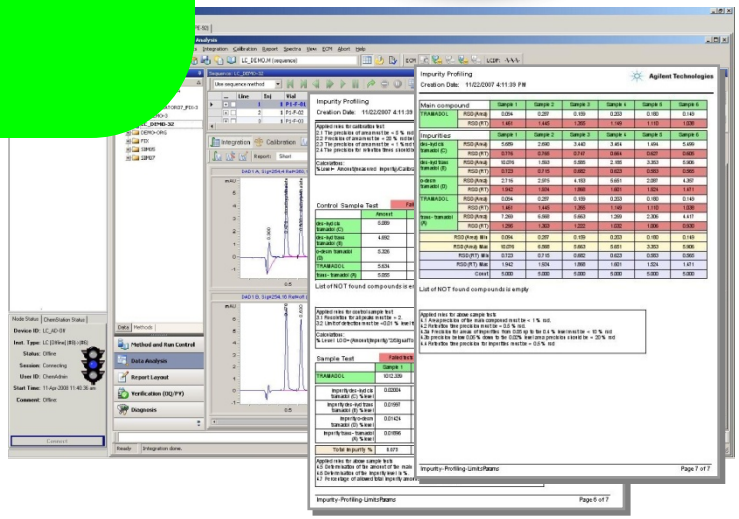
ChemStation B.04.01 with :

a) OpenLAB ECM

b) OpenLAB Intelligence Reporter

c) ChemLaunch





New! - ChemStation B.04.01 and OpenLAB

General Functionality (New)

- Save manual integration in data files
- Signal overlay (incl. ECM data)
- Partial acquisition sequence
- Improved ECM workflow

Advanced Reporting (OpenLAB Intelligence Reporter)

- Custom fields
- Summary reports
- Statistics and custom calculations
- Trend charts

→ *Best control of Agilent Instruments*
→ *Over 200,000 licenses sold*

Regulatory Compliance (OpenLAB)

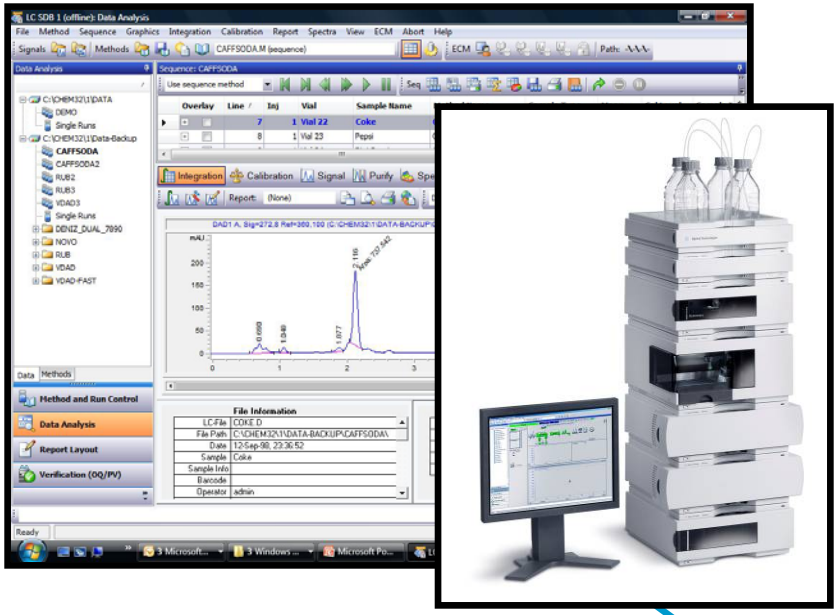
- File Security, versioning and audit trail
- Mandatory log-in/connection to ECM
- Session Lock (time out)
- Granular ChemStation user roles and privileges
- Method audit trail functionality
- Results audit trail

Infrastructure

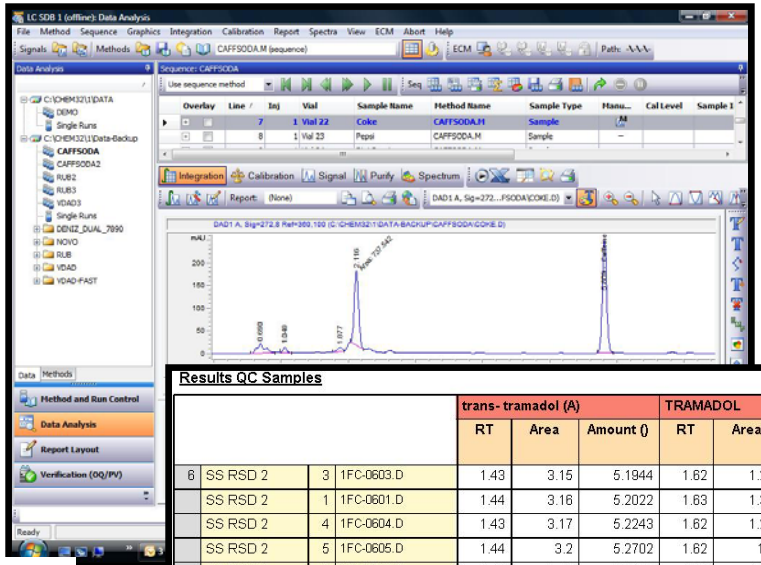
- New Installation
- Windows Vista – Windows XP SP3
- ChemLaunch (Citrix Terminal Server)

From the Lab Bench to the Desktop

Lab

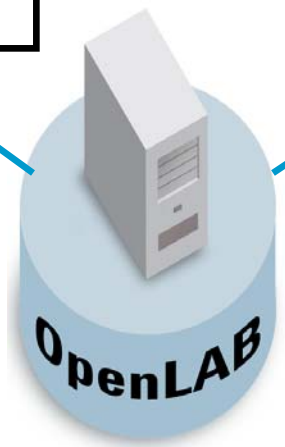


Office



Results QC Samples

				trans- tramadol (A)			TRAMADOL		
				RT	Area	Amount ()	RT	Area	Amount ()
6	SS RSD 2	3	1FC-0603.D	1.43	3.15	5.1944	1.62	1.28	5.4352
	SS RSD 2	1	1FC-0601.D	1.44	3.16	5.2022	1.63	1.31	5.5515
	SS RSD 2	4	1FC-0604.D	1.43	3.17	5.2243	1.62	1.28	5.4390
	SS RSD 2	5	1FC-0605.D	1.44	3.2	5.2702	1.62	1.3	5.5245
	SS RSD 2	2	1FC-0602.D	1.44	3.17	5.2186	1.62	1.29	5.4773
	SS RSD 2	6	1FC-0606.D	1.44	3.14	5.1764	1.62	1.27	5.3594
			Average	1.44	3.16	5.2143	1.62	1.29	5.4645
			Stand. Dev.	0	0.02	0.0323	0	0.01	0.0691
			Min	1.43	3.14	5.1764	1.62	1.27	5.3594
			Max	1.44	3.2	5.2702	1.63	1.31	5.5515



- Store all data/reports centrally
- Security, versions, audit trail
- unifies data, information and regulatory compliance

- Reprocess from anywhere
- Easily find data and results
- Create custom reports
- Collaborate Word, Excel, PDF

ChemStation's – LC, GC, CE, A/D, LCMS, GCMS, ICPMS*, UV-Vis*

OpenLAB Intelligence Reporter







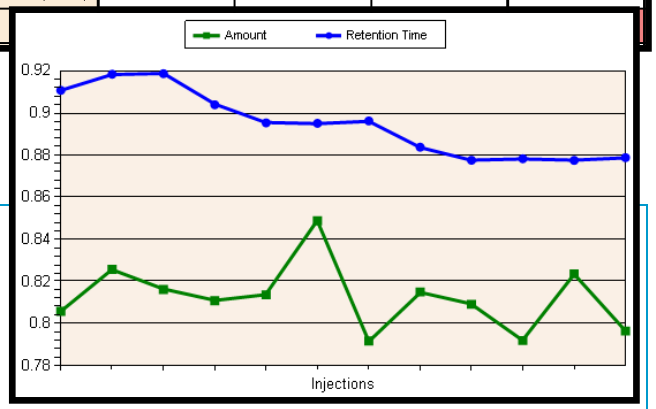


System Suitability Test — Failed tests are marked red

	Amount	RSD(RT)	RSD(Area)	Resolution EP	PW 50%	K'	S/N
des-hyd cis tramadol (C)	0.805	0.789	1.728	15.686	-0.040	21.307	11.308
des-hyd trans tramadol (B)	0.746	0.735	1.908	3.771	-0.127	22.403	8.547
o-desm tramadol (D)	0.823	2.130	2.789		0.291	6.860	9.001
TRAMADOL	999.951	1.607	0.591		39.013	5.018	2104.873
trans- tramadol (A)	0.812	1.436	3.096	12.673	0.114	11.741	8.970

Main compound		Sample 1	Sample 2	Sample 3	Sample 4
TRAMADOL	RSD(Area)	0.094	0.287	0.159	0.203
	RSD(RT)	1.461	1.445	1.355	1.149

Impurities		Sample 1	Sample 2	Sample 3	Sample 4
des-hyd cis tramadol (C)	RSD(Area)	5.689	2.690	3.440	3.464
	RSD(RT)	0.776	0.765	0.747	0.664
des-hyd trans tramadol (B)	RSD(Area)	10.076	1.593	5.585	2.185



- Reports from any Instrument*
- Dynamic report templates
- Database reporting
- Automatic report generation
- Simple to advanced calculations with control charts
- Easily export results to Excel, PDF, or other formats
- Reports and templates managed securely in ECM
- Report templates work across different analysis/sites
- *Support for ChemStation, ChemStore, ICM result data

OpenLAB Intelligence Reporter

OpenLAB Intelligence Reporter A.01.01

- Search-based reporting
- Simple and advanced calculations
- Trend charts
- Support for Agilent ChemStation, ChemStore and OpenLAB ICM result data
- Integrated into Agilent ChemStation and OpenLAB ICM
- Scalable reporting infrastructure based on ECM
- Database-based reporting for ECM systems with Oracle or MS SQL Server
- Manage report templates and filter definitions in ECM

Typical Reporting Workflows

Single Sequence OpenLAB Summary Report

- A single sequence acquired on a ChemStation or Agilent OpenLAB ICM, is reviewed in the CDS first. The OpenLAB summary report is created for this single sequence only.

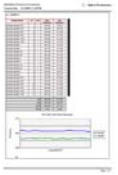
Multiple Sequence Summary Report

- Multiple sequences are acquired over time (days to weeks). A user searches for these sequences and creates a summary report from them.

Study/Project Summary Report

- A large number of sequences (10's to 100's) are acquired over time (weeks to months). A user searches for ALL data for these sequences and creates a complex study summary report based on these data.

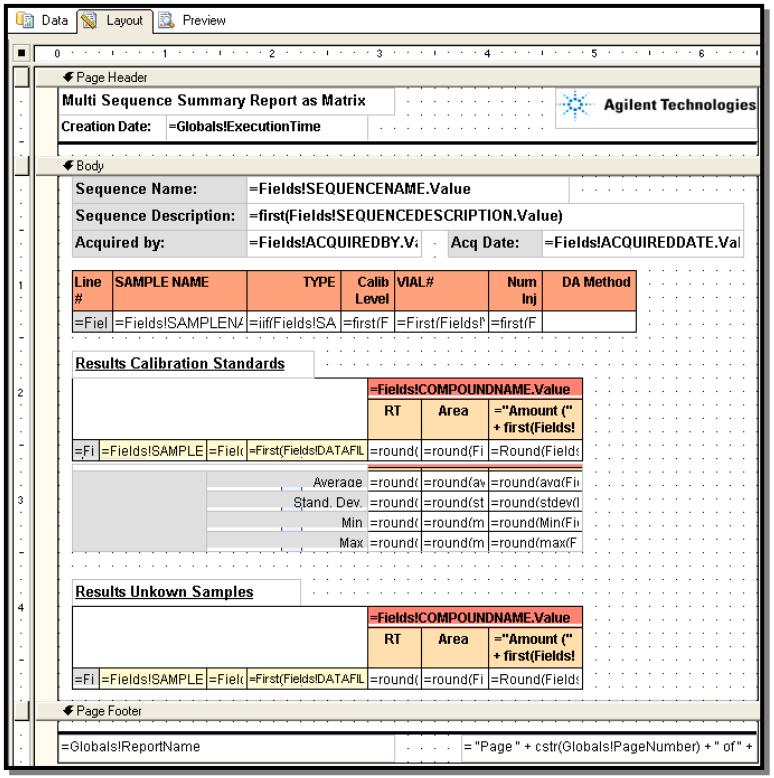
Possible OpenLAB Intelligence Reports

Some Example Report Solutions	to view, click on the report
Single Sequence Report – Directly in ChemStation: Sequence overview, marking of manual integration, statisitc calculation per calibration level / per compound	
Diagnostic Report (Cross Sequence): Based on diagnostic data (pressure), sequence overview about pressure drops during a sequence series	
Instrument Maintance Report (Cross Sequence): Colum Usage Report, per column, per Instrument over the time	
Cross-Sequence Trend Charts (Cross Sequence): cross sequence report for statistic calculations on various compounds, per level	

Report Templates

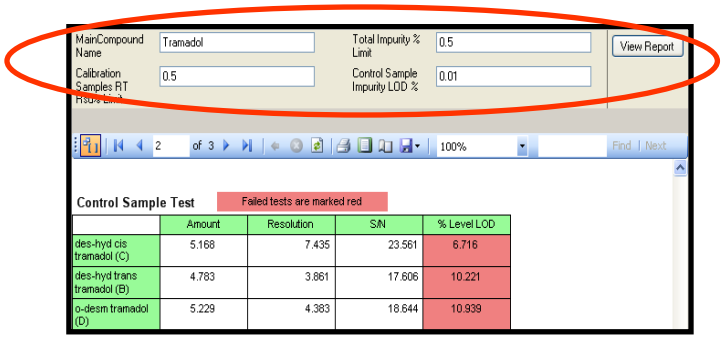
A report template defines

- Which data, results and information are reported on
- How the data are sorted, filtered and grouped
- How additional values and results are calculated
- How results are presented (tables, trend-charts, etc.)
- Formatting / Layout
- Page attributes like size and orientation
- Page header and footer content



Interactive Reporting

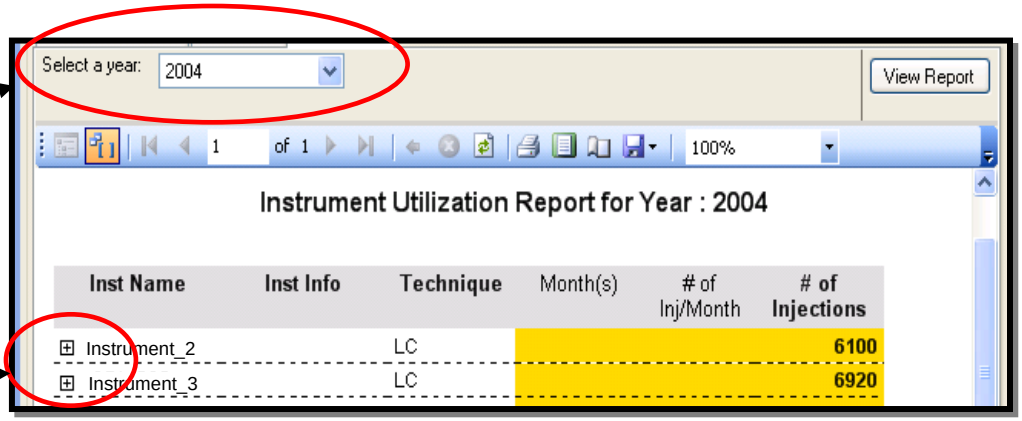
- Fields to enter or select report parameter within the final report



- Dropdown lists for displaying details within the final report.

→ First get an overview

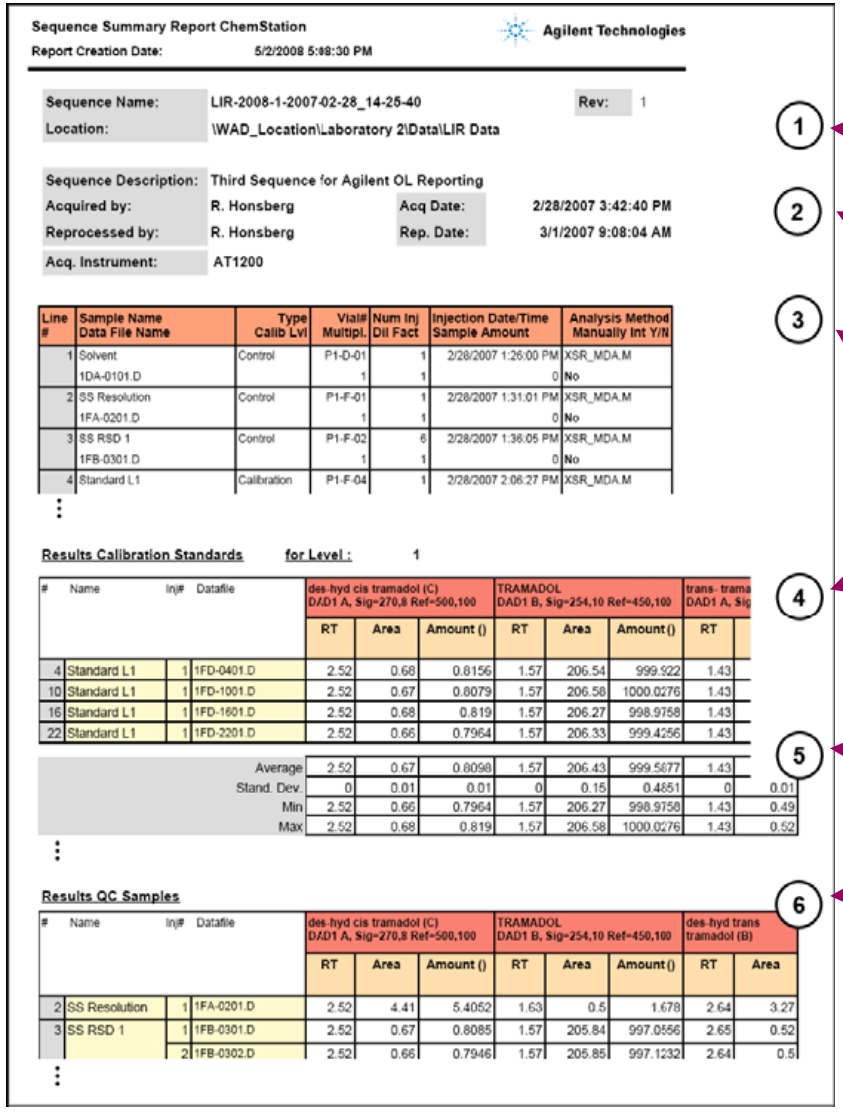
→ second dig into the details



Increase efficiency of data review

*For demo videos please visit: http://www.agilent.com/chem/ol , **"Intelligence Reporter"***

One Example Single Sequence OpenLAB IR



Sequence Summary Report ChemStation — Agilent Technologies

Report Creation Date: 5/2/2008 5:08:30 PM

Sequence Name:	LIR-2008-1-2007-02-28_14-25-40	Rev:	1
Location:	\WAD_Location\Laboratory 2\Data\LIR Data		
Sequence Description:	Third Sequence for Agilent OL Reporting		
Acquired by:	R. Honsberg	Acq Date:	2/28/2007 3:42:40 PM
Reprocessed by:	R. Honsberg	Rep. Date:	3/1/2007 9:08:04 AM
Acq. Instrument:	AT1200		

Line #	Sample Name / Data File Name	Type / Calib Lvl	Vial# / Multipl.	Num Inj / Dil Fact	Injection Date/Time / Sample Amount	Analysis Method / Manually Int Y/N
1	Solvent	Control	P1-D-01	1	2/28/2007 1:26:00 PM	XSR_MDA.M
	1DA-0101.D		1	1	0	No
2	SS Resolution	Control	P1-F-01	1	2/28/2007 1:31:01 PM	XSR_MDA.M
	1FA-0201.D		1	1	0	No
3	SS RSD 1	Control	P1-F-02	6	2/28/2007 1:36:05 PM	XSR_MDA.M
	1FB-0301.D		1	1	0	No
4	Standard L1	Calibration	P1-F-04	1	2/28/2007 2:06:27 PM	XSR_MDA.M

Results Calibration Standards for Level : 1

#	Name	Inj#	Datafile	des-hyd cis tramadol (C) DAD1 A, Sig=270,8 Ref=500,100 RT	Area	Amount ()	TRAMADOL DAD1 B, Sig=254,10 Ref=450,100 RT	Area	Amount ()	trans- trama DAD1 A, Sig RT	
4	Standard L1	1	1FD-0401.D	2.52	0.68	0.8156	1.57	206.54	999.922	1.43	
10	Standard L1	1	1FD-1001.D	2.52	0.67	0.8079	1.57	206.58	1000.0276	1.43	
16	Standard L1	1	1FD-1601.D	2.52	0.68	0.819	1.57	206.27	998.9758	1.43	
22	Standard L1	1	1FD-2201.D	2.52	0.66	0.7964	1.57	206.33	999.4256	1.43	
	Average			2.52	0.67	0.8098	1.57	206.43	999.5677	1.43	
	Stand. Dev.			0	0.01	0.01	0	0.15	0.4851	0	0.01
	Min			2.52	0.66	0.7964	1.57	206.27	998.9758	1.43	0.49
	Max			2.52	0.68	0.819	1.57	206.58	1000.0276	1.43	0.52

Results QC Samples

#	Name	Inj#	Datafile	des-hyd cis tramadol (C) DAD1 A, Sig=270,8 Ref=500,100 RT	Area	Amount ()	TRAMADOL DAD1 B, Sig=254,10 Ref=450,100 RT	Area	Amount ()	des-hyd trans tramadol (B) RT	Area
2	SS Resolution	1	1FA-0201.D	2.52	4.41	5.4052	1.63	0.5	1.678	2.64	3.27
3	SS RSD 1	1	1FB-0301.D	2.52	0.67	0.8085	1.57	205.84	997.0556	2.65	0.52
		2	1FB-0302.D	2.52	0.66	0.7946	1.57	205.85	997.1232	2.64	0.5

1 Report header with company logo

2 Sequence information

3 Sequence table

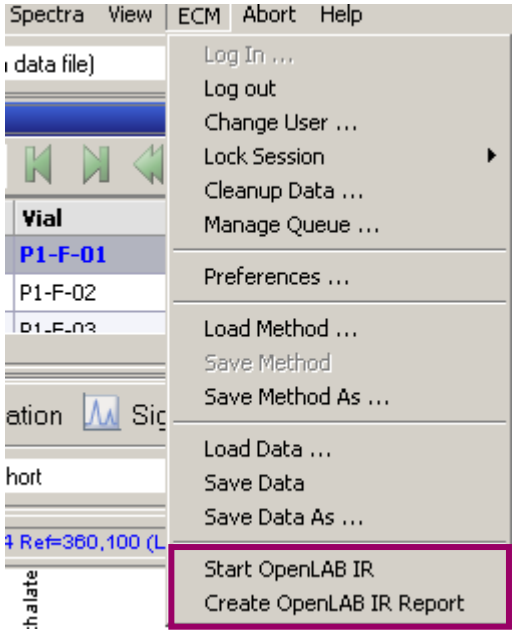
4 Results for calibration standards per Level

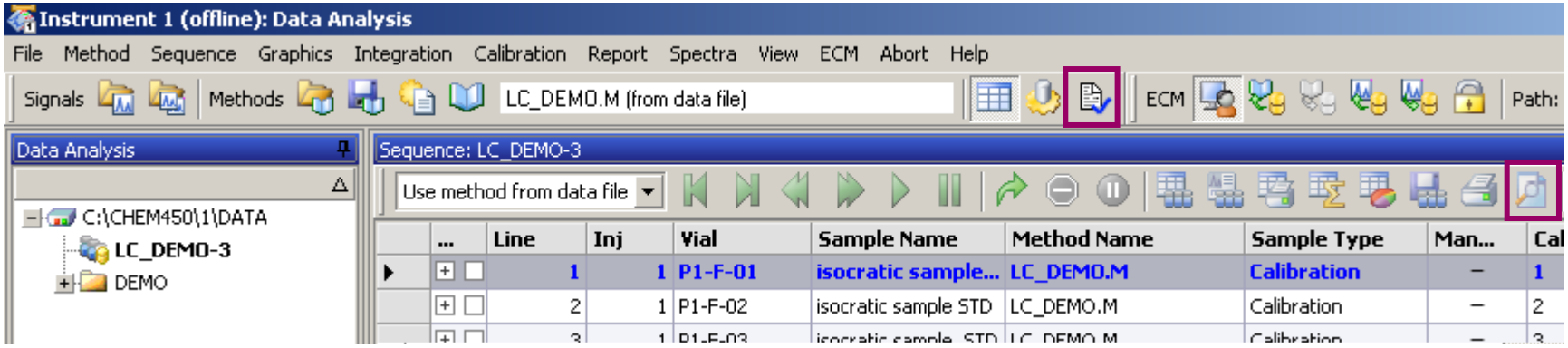
5 Statistical calculations

6 Results for quality control samples, grouped by sample name

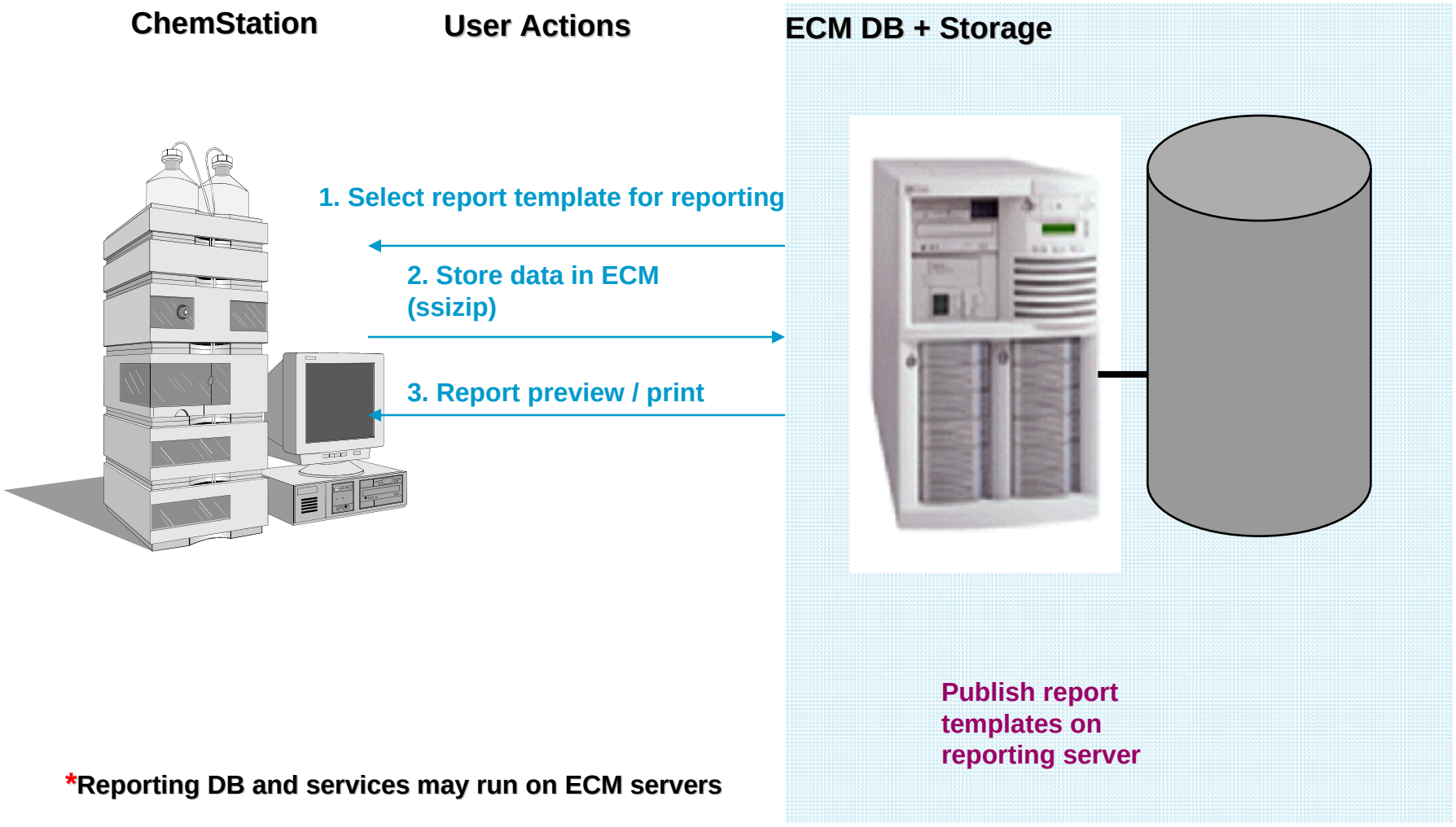
OpenLAB Intelligence Reporter in ChemStation

- Two new icons present in the Data Analysis View
- Corresponding menu item in the ECM Menu (Full Menu)
- OLIR icons/menu only present, if option installed within OpenLAB ECM





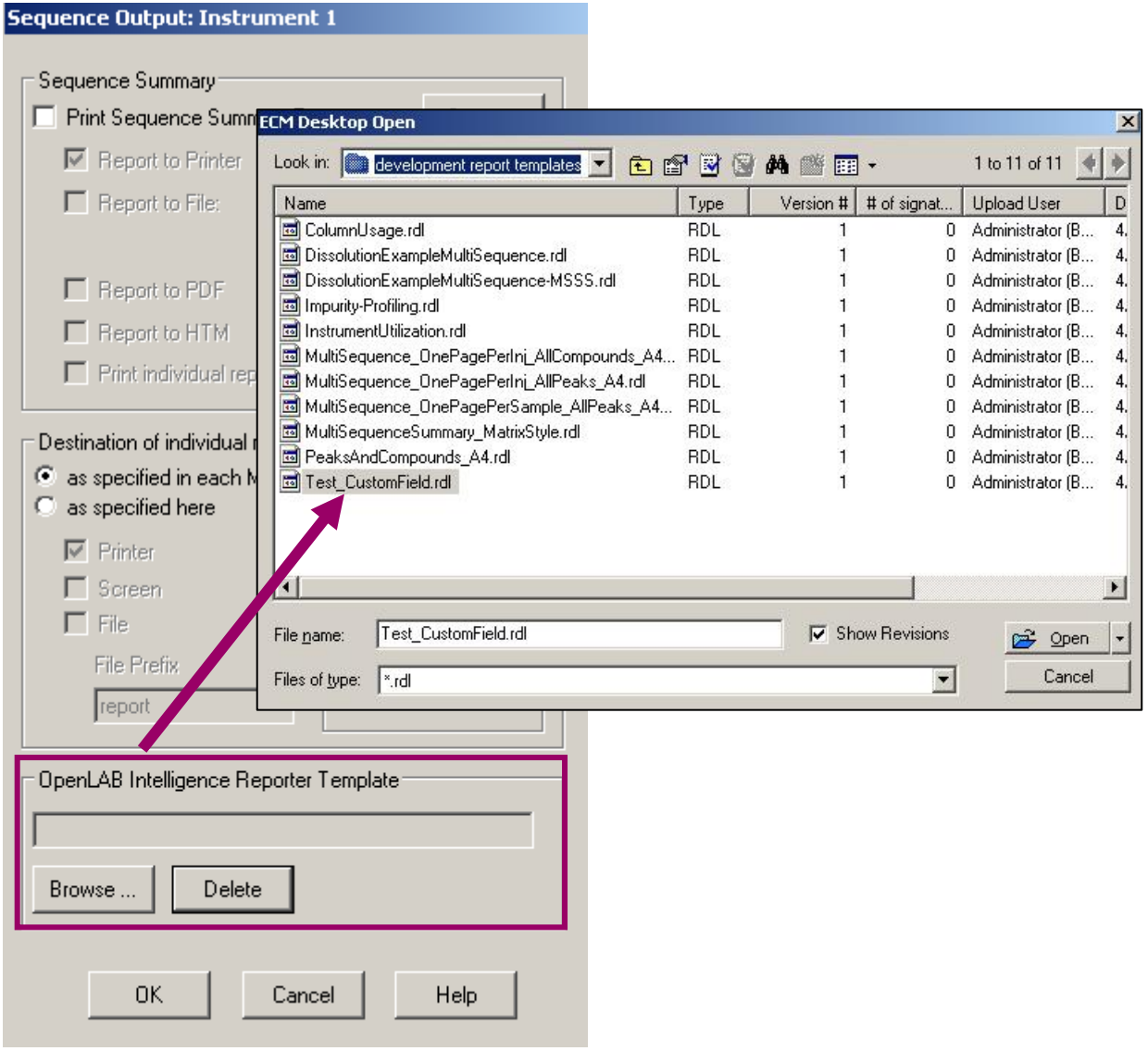
ChemStation OpenLAB Option with OpenLAB IR
Main Data flow for Single Sequence Reports



*Reporting DB and services may run on ECM servers

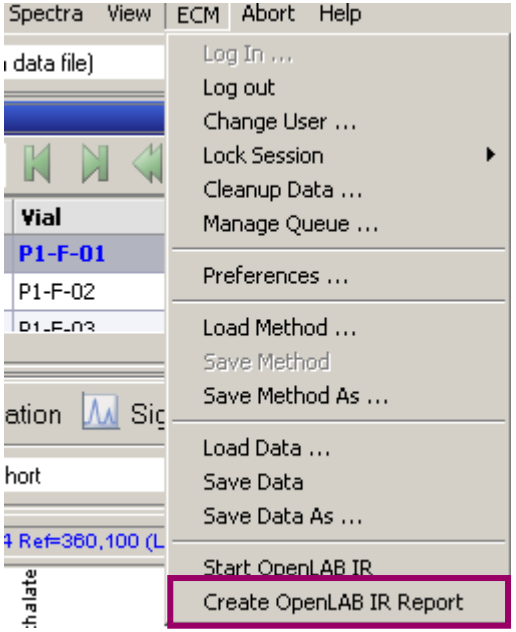
Step 1: Set up Report Template for OpenLAB IR

- Save the Report template *.rdl with the sequence.s file, as part of the sequence output dialog
- After acquiring or reprocessing the sequence data, the report can be created in Data Analysis view
- Report Templates are under version control



Step 3: Generate an OpenLAB Intelligence Reporter

- In Data Analysis use menu or icon  to generate OpenLAB IR
- The data need to be present in the Navigation Table
- OLIR icons/menu only present, if option installed within OpenLAB ECM
- Note: it is yet not possible to generate the OpenLAB IR automatically at the end of a sequence. User Action is required.

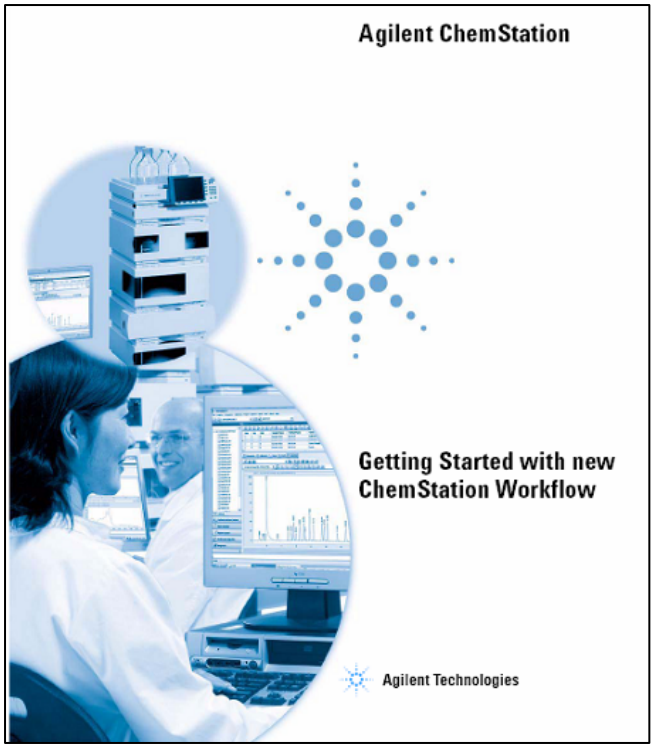


Information on ChemStation

Documentation can be found on the Agilent website
http://www.chem.agilent.com/Scripts/PDS.asp?lPage=61233

- Product Datasheet
- Specification
- Application Notes
- Manuals

OpenLAB Intelligence Reporter
http://www.chem.agilent.com/Scripts/PDS.asp?lPage=61233



Manuals can be found your ChemStation Installation DVD

- Getting Started with New ChemStation Workflow
  PartNo.G2170-90042

- Understanding your ChemStation
  PartNo. G2070-91125

- OpenLAB Option
  PartNo.G2170-90233

Software Status Bulletin
http://www.chem.agilent.com/en-US/Support/Downloads/Patches/Pages/default.aspx

Customer Trainings (NorthAmerica)

http://www.chem.agilent.com/cag/training/northam/index.asp

Who to contact for more information about OpenLAB and Agilent software products

1. Agilent Account Managers (sales)
2. Agilent Informatics Product Specialists

   Eastern US - Marc Mandelbaum – 302-683-7149

   Pacific Coast (CA, WA, OR) - Spencer Tse 408-553-3655

   Midwest and South - Johnathon McSayles 847-944-6019

   Midwest /West/Latin America – Stephen Brown 847-944-6461



Learning Products – North America Course Catalog

Users needing to increase productivity in the lab by utilizing both standard and advanced features available in the Agilent GC/LC ChemStation may want to attend one of the following courses:

- H2606A - ChemStation for GC Data Analysis and Reporting (2 days)
- H5928A - Agilent HPLC (2D) Data Analysis and Reporting (2 days)
- H4039A - Agilent HPLC (3D) Data Analysis and Reporting (3 days)

Course Features

- Data acquisition and method creation
- Data analysis including integration and calibration
- Sequencing
- Reporting

For more information concerning course content, dates and locations, please visit:

http://www.chem.agilent.com/en-US/education/en-us/classroomtraining/Pages/Courselisting.aspx

Learning Products – European Course Catalog

Users needing to increase productivity in the lab by utilizing both standard and advanced features available in the Agilent GC/LC ChemStation may want to attend one of the following courses:

- H4033A – Agilent HPLC (3D) Method&Run Control, Data Analysis and Reporting (4 days)
- H8718A - Agilent HPLC (3D) Data Analysis and Reporting (2 days)
- H5928A – Advanced User Training, Quantification and Result Reporting (2 days)

Course Features

- Data acquisition and method creation
- Data analysis including integration and calibration
- Sequencing
- Reporting

For more information concerning course content, dates and locations, please visit:

http://www.chem.agilent.com/en-US/education/pages/homepage.aspx

QUESTIONS?

