

Introduction to the HPLC ChemStation

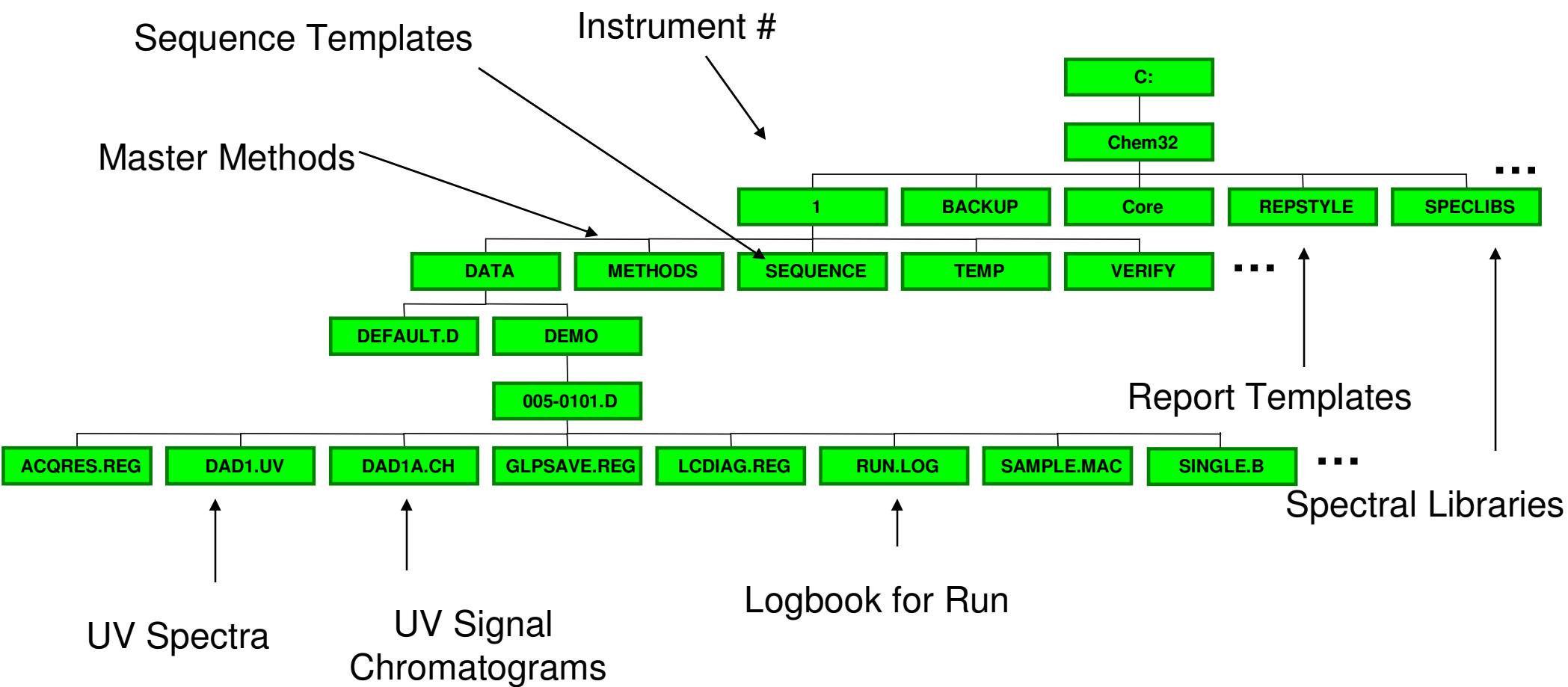


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In This Section, We Will Discuss:

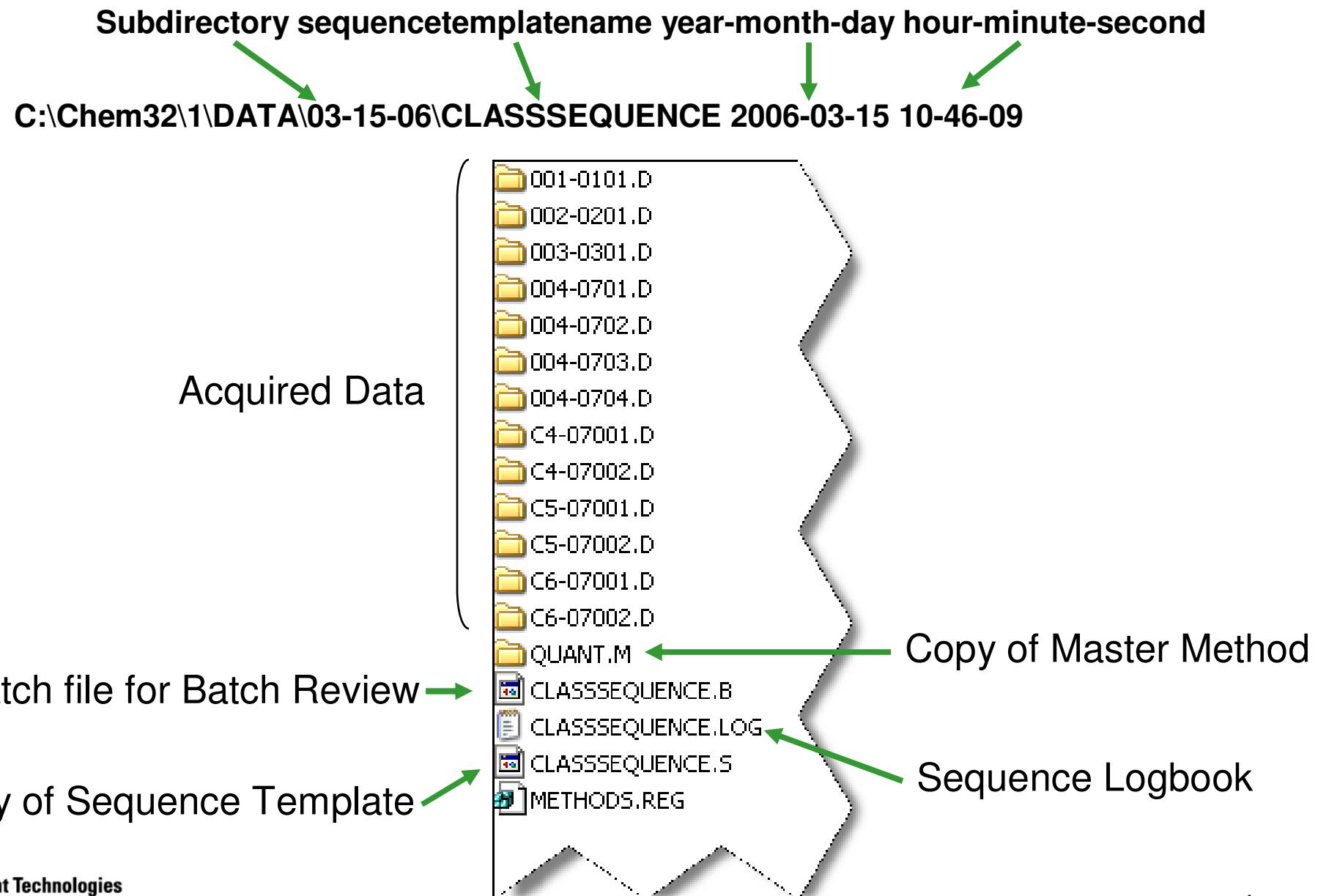
- The structure of the ChemStation Software.
- How to use the ChemStation Configuration Editor.
- How to open the ChemStation .
- ChemStation Explorer and Views.
- Preferences.
- How to set up user access levels.
- How to use the Scheduler.
- How to maintain the computer system.

Directory Structure of ChemStation Software



Sequence Data Structure

Sequence Container (Folder)



File Naming Conventions

Revision
B.01
and
higher

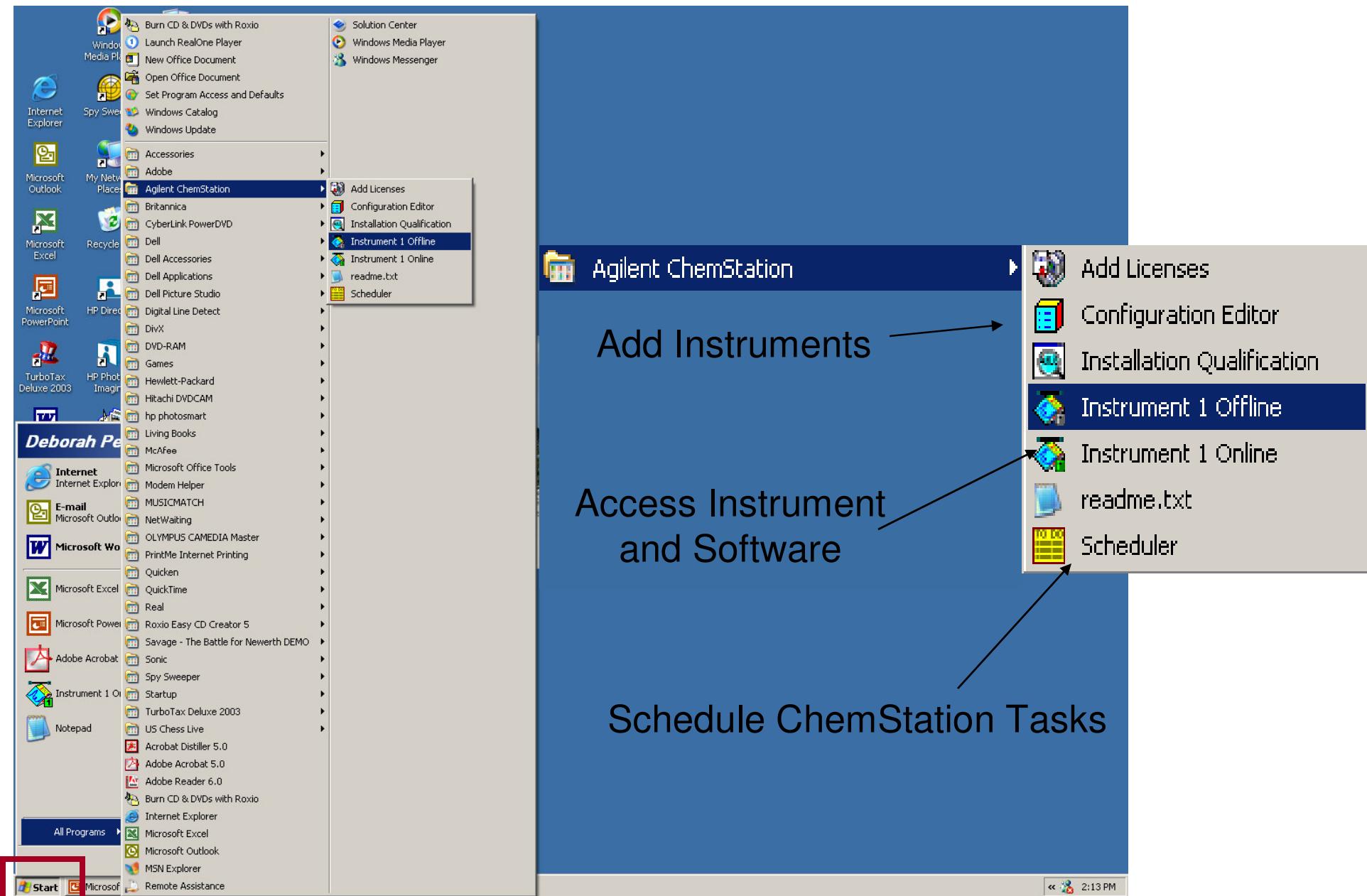
Type	Max Input Length	Auto Append	Example
DataFile Name	38	.D	Demodad.d
DataFile Name using prefix & counter	15	.D	longname000001.d
Method	40	.M	def_lc.m
Sequence	40	.S	def_lc.s
Hypersequence	40	.HYP	def_lc.hyp
Batch	40	.B	batch.b
Libraries	40	.UVL	demodad.uvl
Customized Report Template	40	.FRP	areapct.frp
Datafile subdirectory	40		demo
Data sequence subdirectory	40		demo
Sequence Data Container Name	40		test_date_time

Forbidden characters for filenames:

. / \ : <space> []| + ; , ? = * <>”@#%

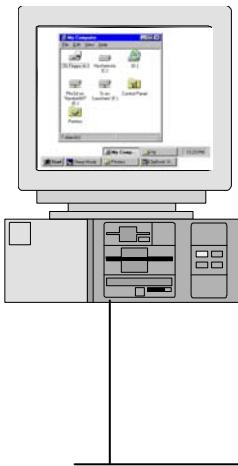
Note: Revisions A.0X files are limited to eight characters.

The HPLC ChemStation Software



LAN Configuration with Existing Network

ChemStation



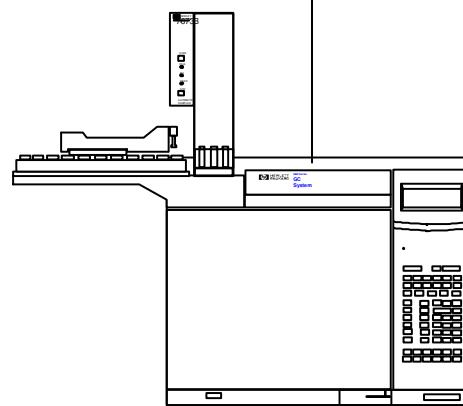
8453

ChemStation

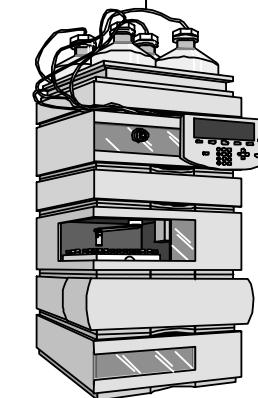
35900E



Existing LAN Backbone

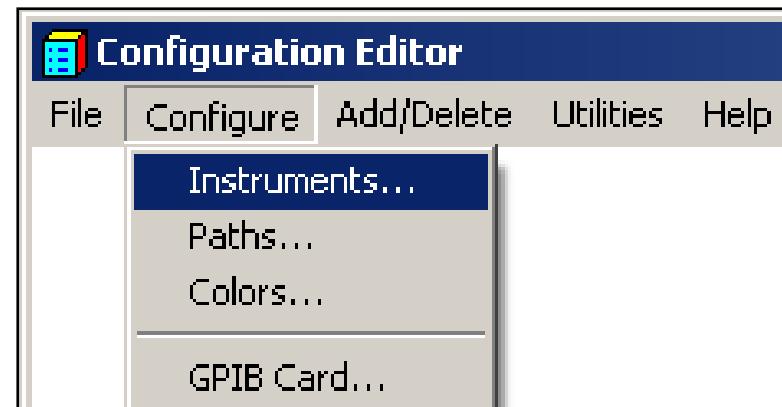
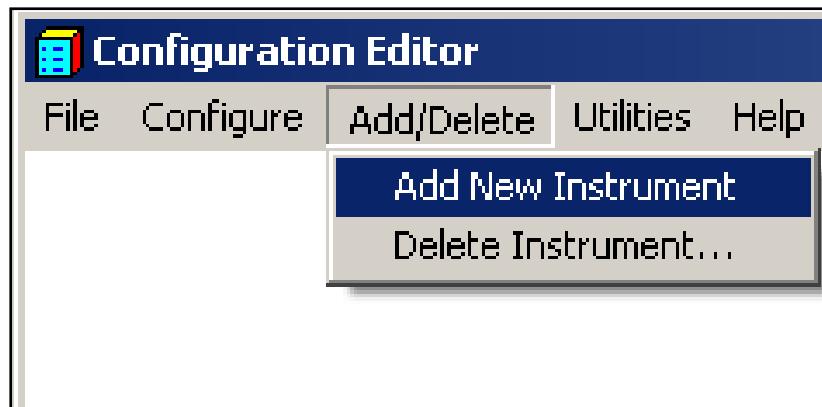


6890 System



1100/1200
System

Instrument Configuration



Instrument Type:

- LC 3D Data Analysis only
- LC Data Analysis only
- Modular 3D LC System**
- Modular LC System

Instrument Name:

Initially Start Instrument Session?

Yes No

Initial Screen Window Size:

Normal Icon Full screen

OK **Cancel** **Help**

Select Instrument Type

Instrument 1 - Device Configuration

Modular 3D LC

Modules

- 1100/1200 System
- 1100/1200 Access**
- Common Instr. Ctrl.
- Access Point
- 1050 Detectors
- 1046 FLD

GPIB LAN

GPIB Address:

Add

Selected Modules

- 1100/1200 System
- 1100/1200 Access IP:138.21.1.2

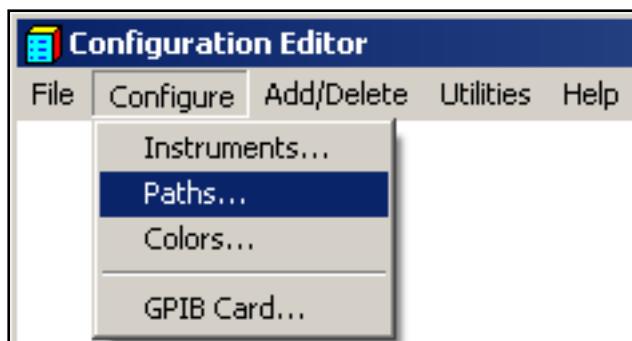
Delete

OK **Cancel** **Help**

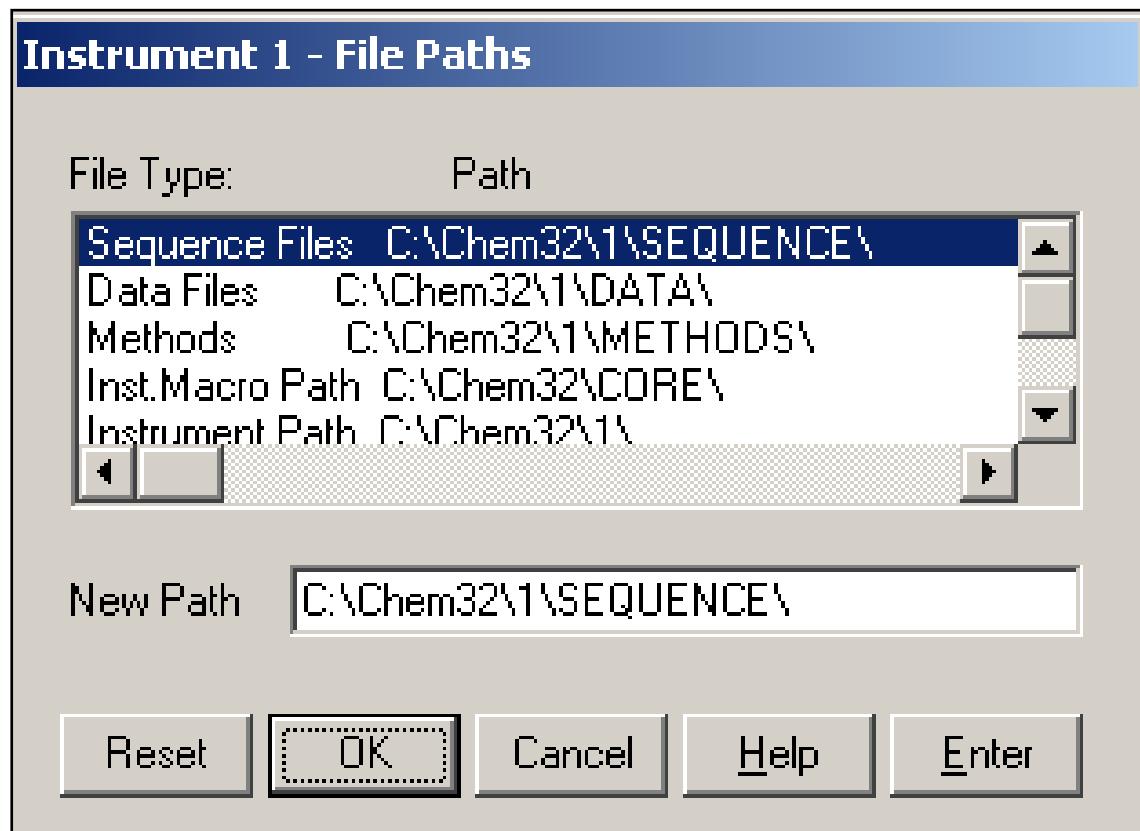
Select LAN and Add IP Address



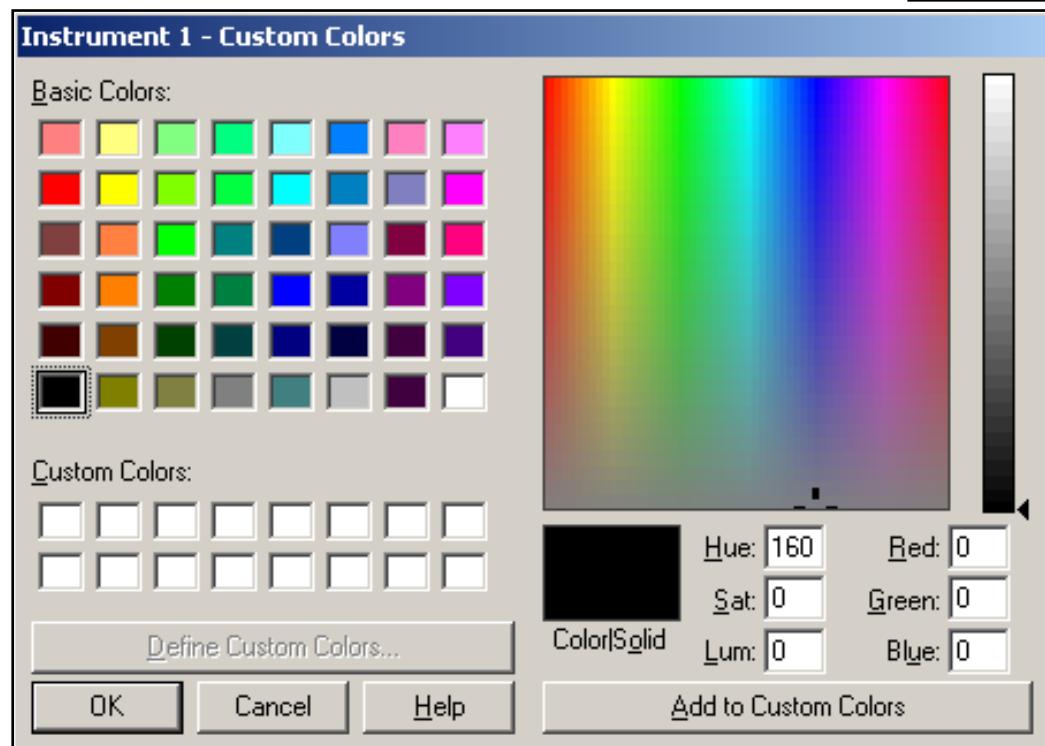
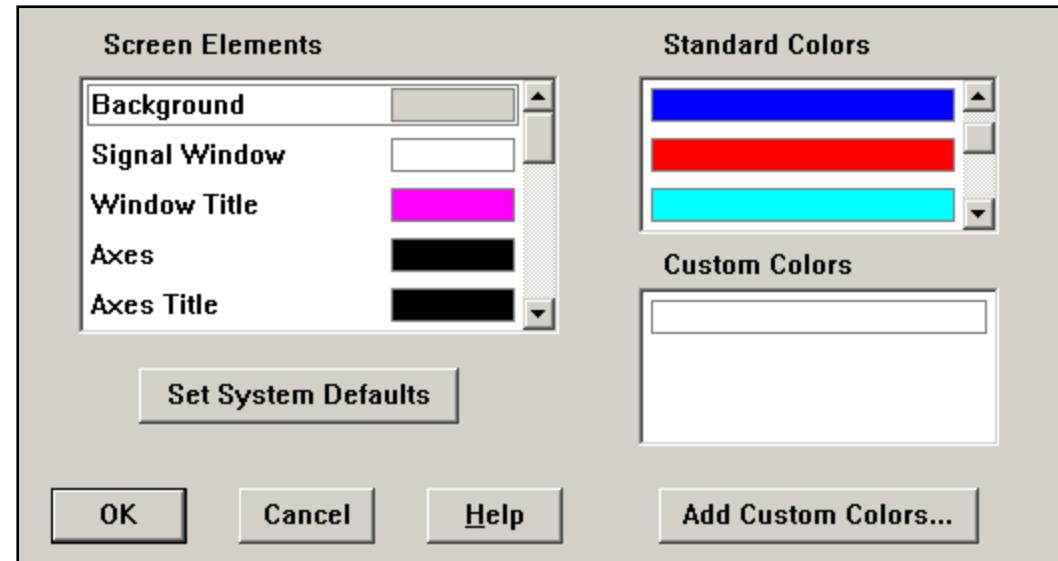
Configure Paths



Default paths for data files, methods, and sequences.

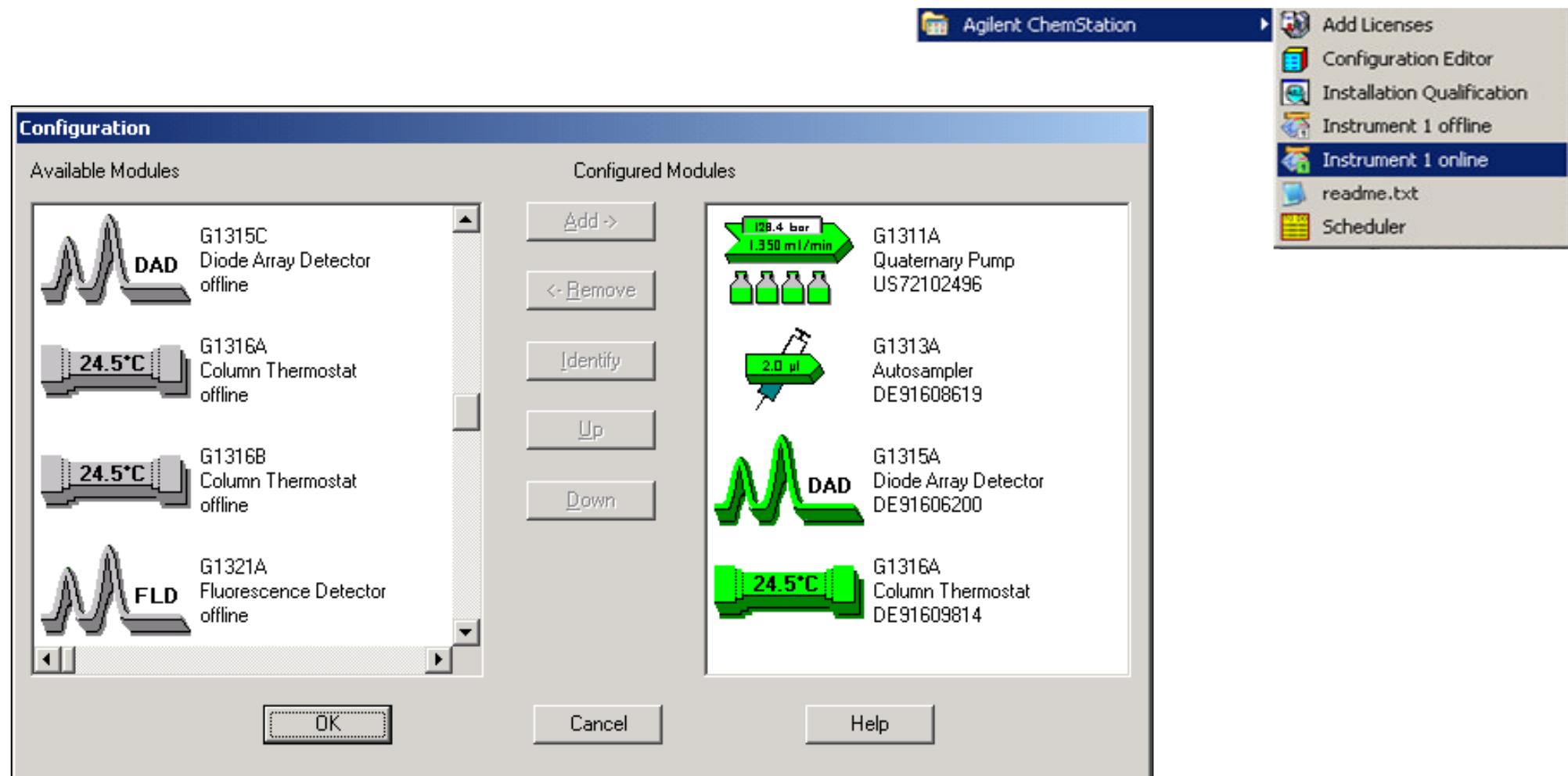


Configure Custom Colors



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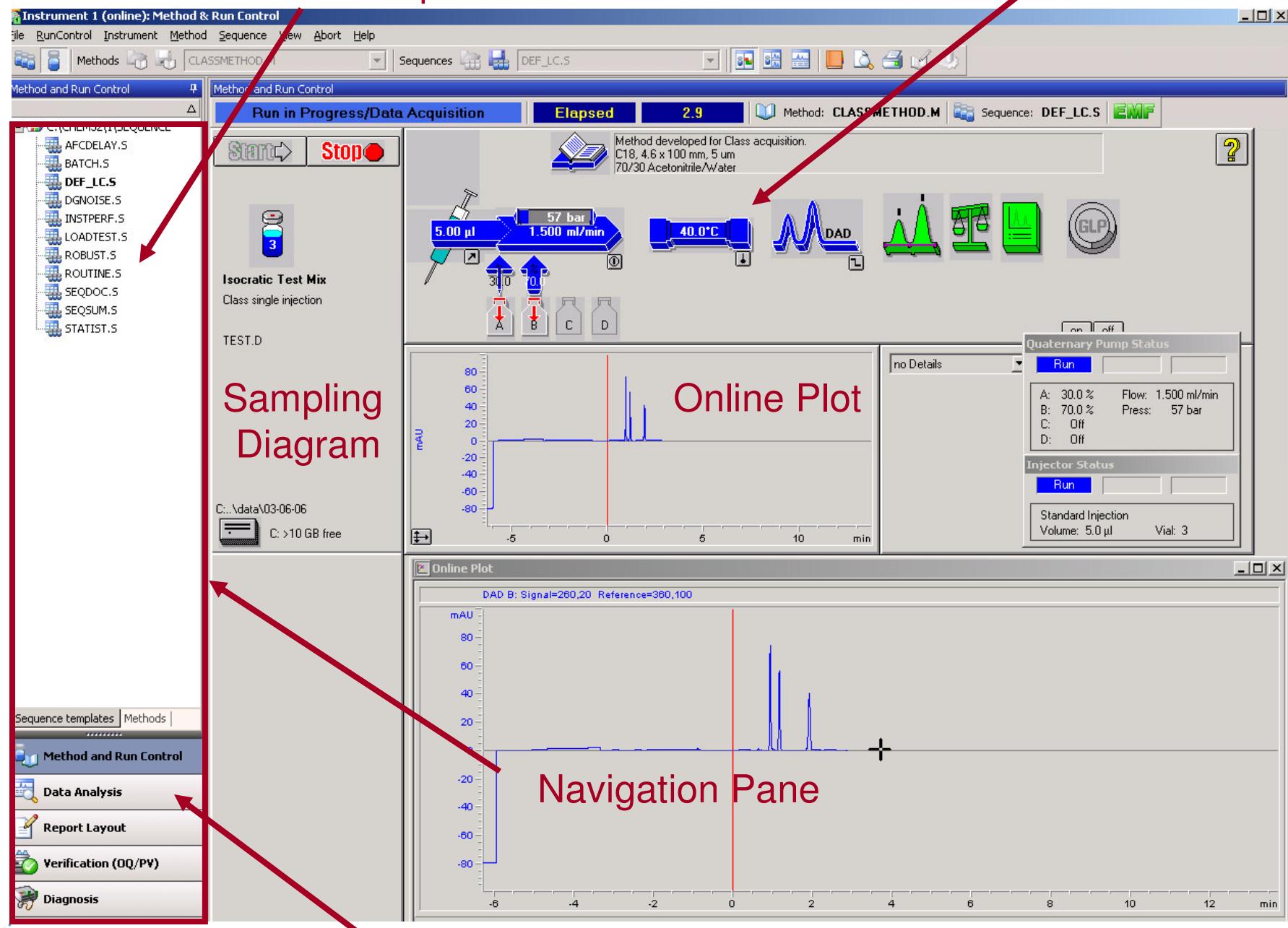
Configuration - When Entering the ChemStation



Method and Run Control View

System
Diagram

ChemStation Explorer



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ChemStation Explorer Views

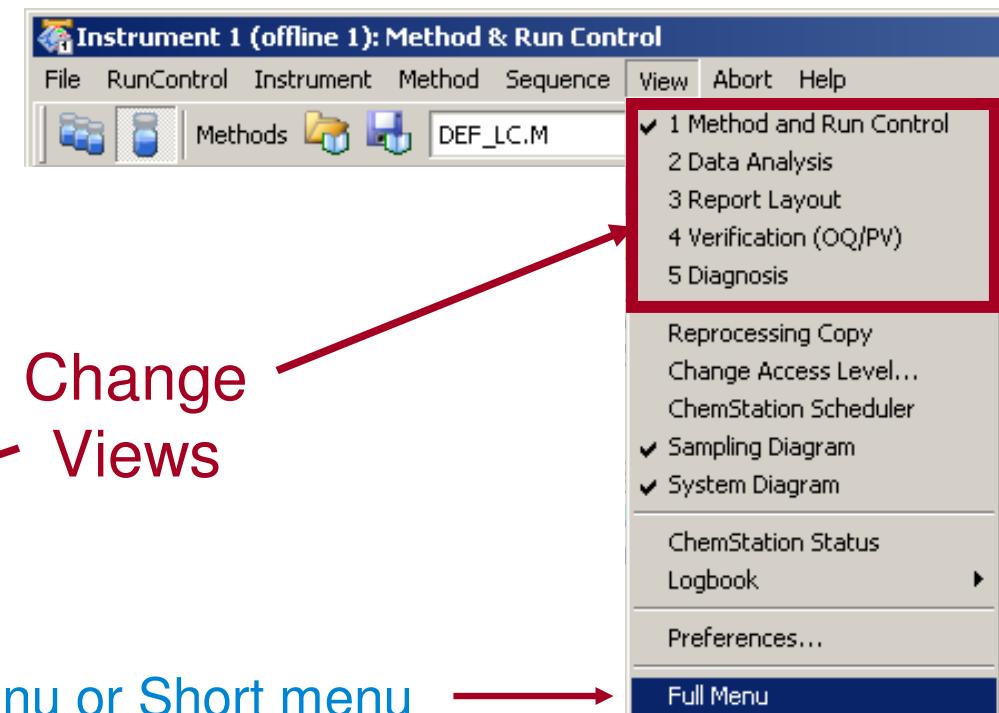
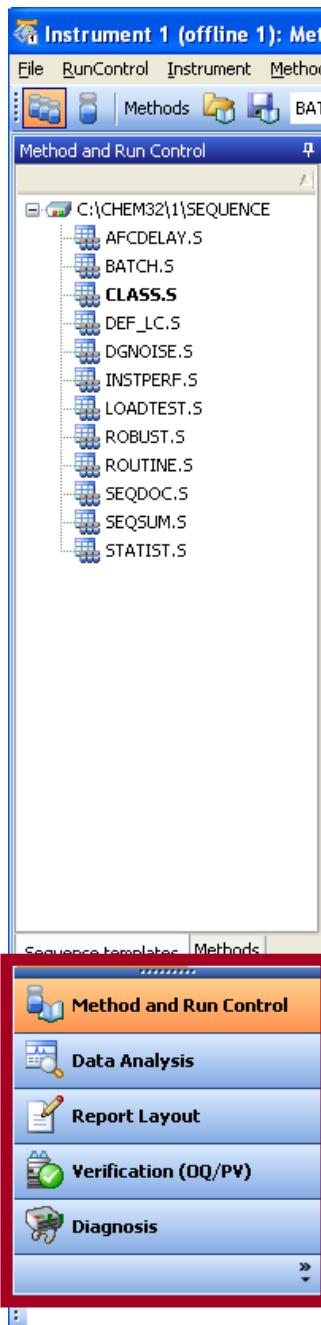
The image displays five side-by-side windows of the Agilent ChemStation software interface, each representing a different 'Explorer View'. Each window has a title bar and a main content area.

- Method and Run Control:** Shows a tree view of sequence files under 'C:\(CHEM32\1)\SEQUENCE'. A context menu is open over a file named 'AFCDELAY.S'. The menu items are 'Load Sequence' (highlighted in blue) and 'Help'. At the bottom of the window, there is a toolbar with buttons for 'Sequence templates' and 'Methods', with 'Methods' being highlighted. Below the toolbar is a list of icons for 'Method and Run Control', 'Data Analysis', 'Report Layout', 'Verification (OQ/PV)', and 'Diagnosis'.
- Data Analysis:** Shows a tree view of data analysis methods under 'C:\(CHEM32\1)\DATA\DEMO'. A context menu is open over a folder named 'Single Runs'. The menu items are 'Load' (highlighted in blue) and 'Help'. At the bottom of the window, there is a toolbar with buttons for 'Data' and 'Methods', with 'Methods' being highlighted. Below the toolbar is a list of icons for 'Method and Run Control', 'Data Analysis', 'Report Layout', 'Verification (OQ/PV)', and 'Diagnosis'.
- Report Layout:** Shows a tree view of report layout files under 'C:\(CHEM32\1)\METHODS'. A context menu is open over a file named 'SYSSUIT.M'. The menu items are 'Load Method' (highlighted in blue), 'DG...', 'Help', and 'DG...'. At the bottom of the window, there is a toolbar with buttons for 'Methods' (highlighted in blue) and '...', and a list of icons for 'Method and Run Control', 'Data Analysis', 'Report Layout', 'Verification (OQ/PV)', and 'Diagnosis'.
- Verification (OQ/PV):** Shows a list of verification methods. It includes three buttons: 'Run System Verification' (with an orange arrow icon), 'Define System Verification' (with a yellow plus sign icon), and 'Remove System Verification' (with a red X icon). Below these buttons is a list of icons for 'Method and Run Control', 'Data Analysis', 'Report Layout', 'Verification (OQ/PV)', and 'Diagnosis'.
- Diagnosis:** Shows a list of diagnosis tools. It includes four icons: 'Tests...' (with a dental mirror icon), 'System On' (with a green server icon), 'System Off' (with a grey server icon), and 'LC Diagnostic' (with a flask and dropper icon). Below these icons is a list of icons for 'Method and Run Control', 'Data Analysis', 'Report Layout', 'Verification (OQ/PV)', and 'Diagnosis'.

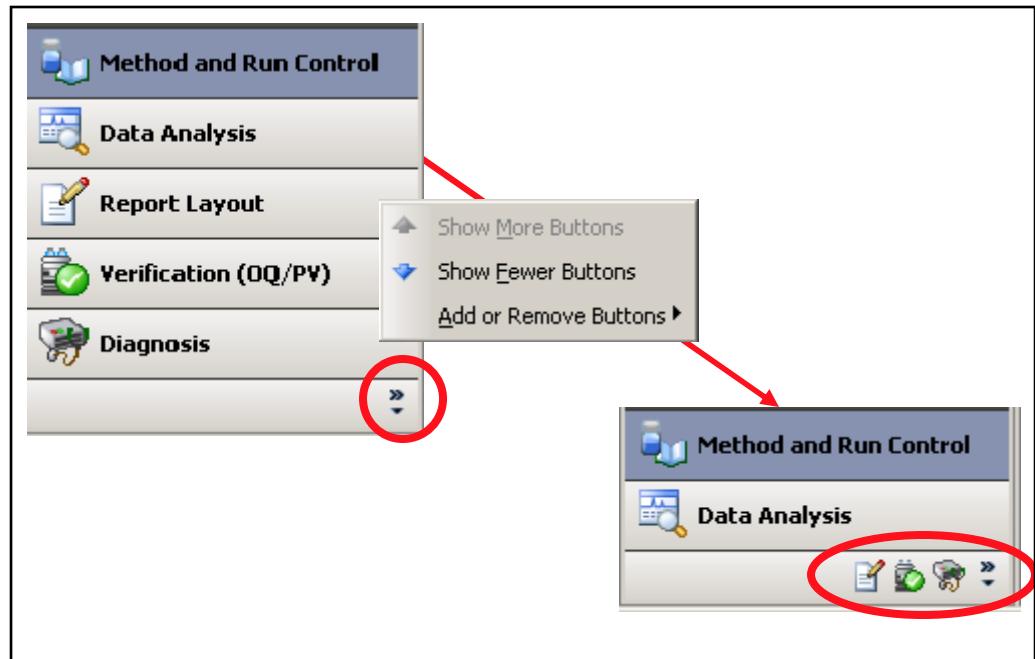
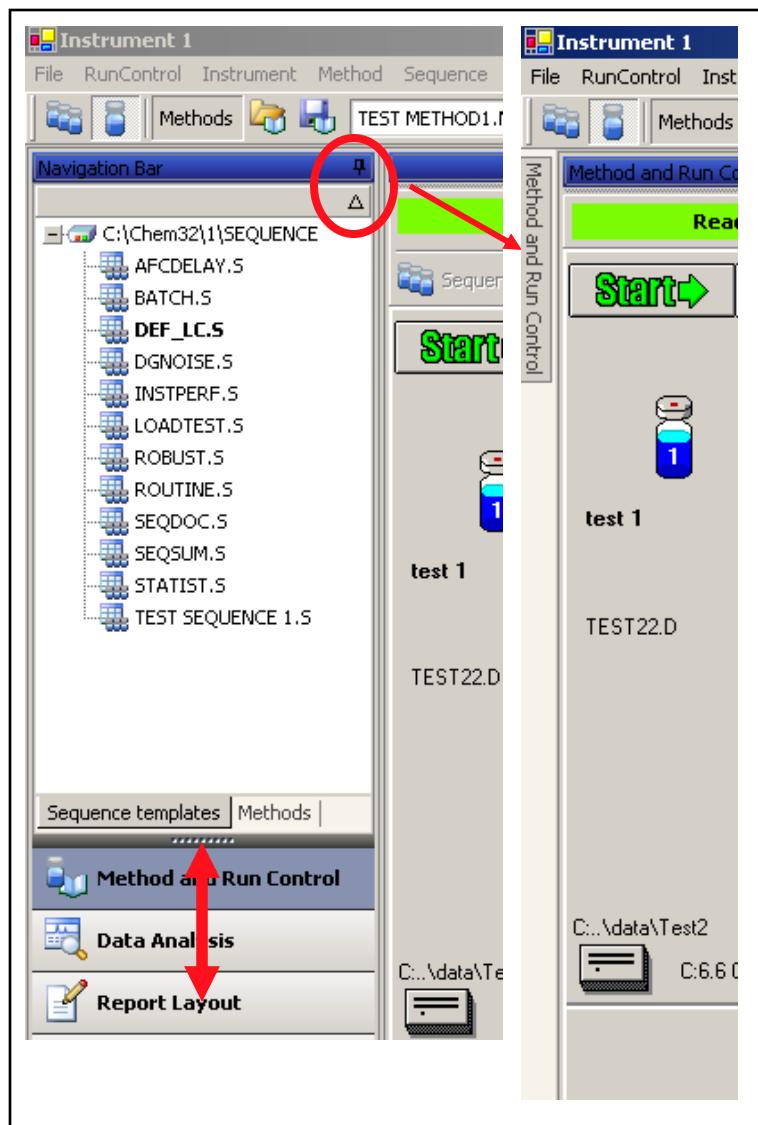
ChemStation Views

Views

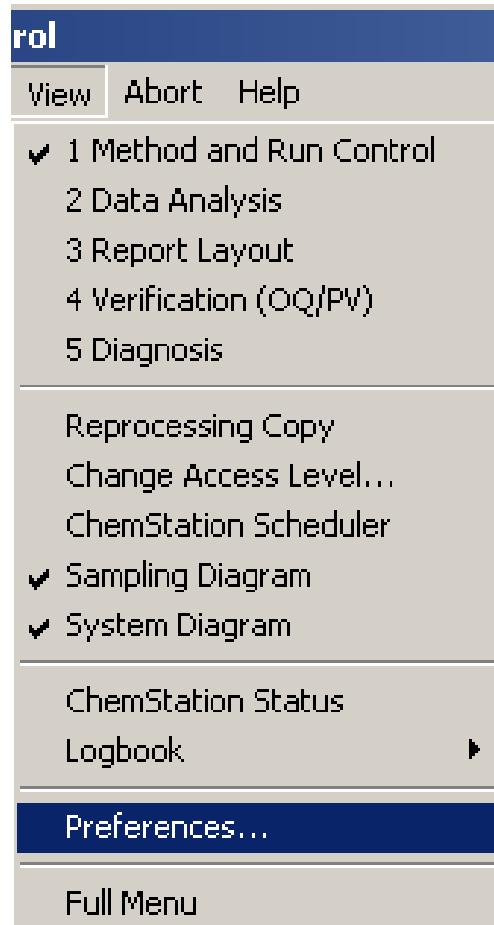
- Method and Run Control
- Data Analysis
- Report Layout
- Verification (OQ/PV)
- Diagnosis



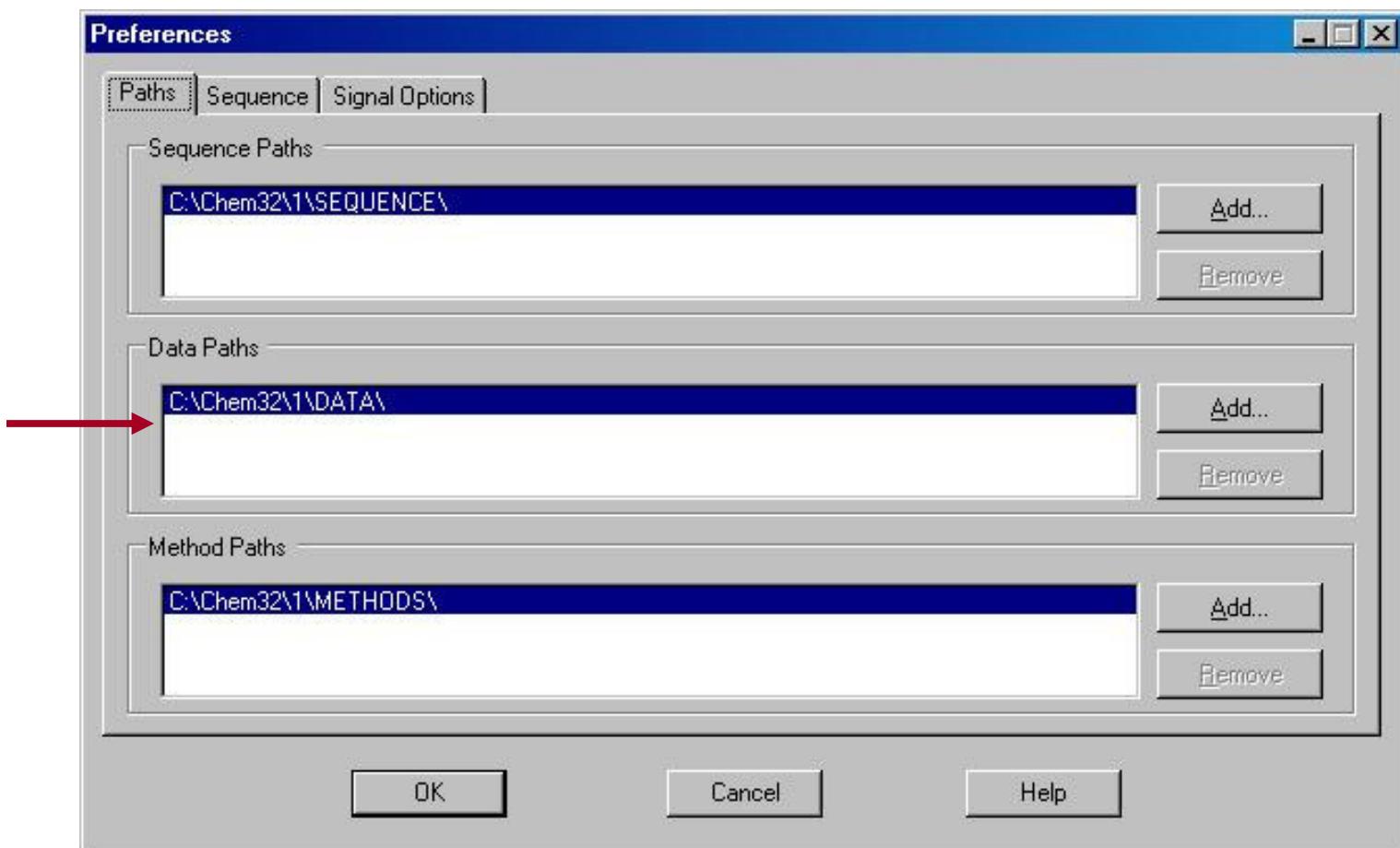
Navigation Pane Customization



View Preferences



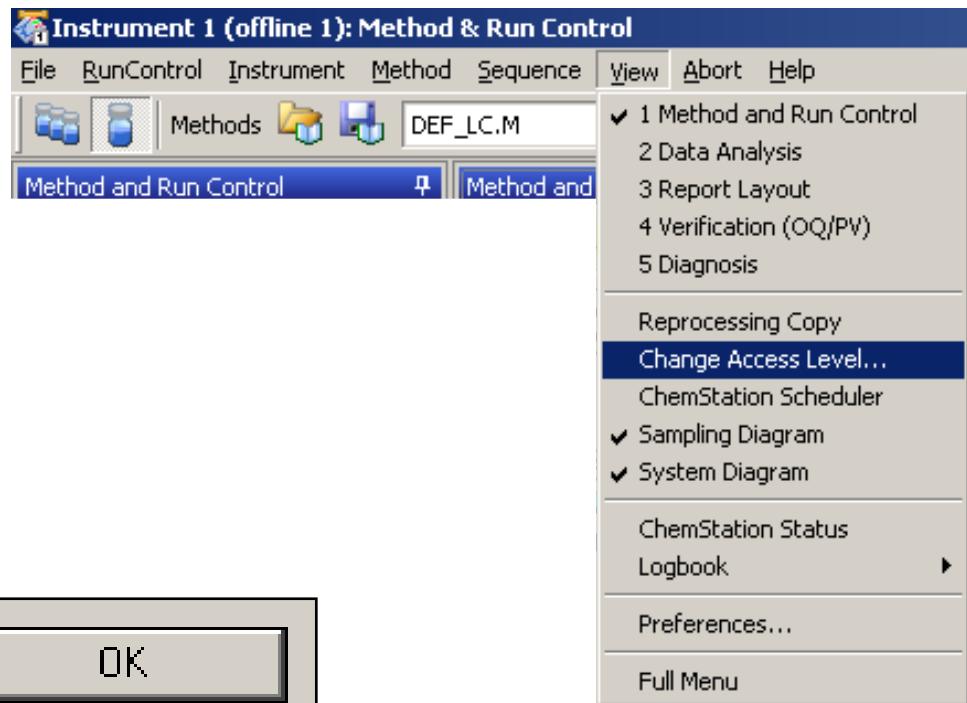
- Allows you to configure the contents of the ChemStation Explorer
- Specifies naming convention for sequence data containers
- Specifies how signals are loaded



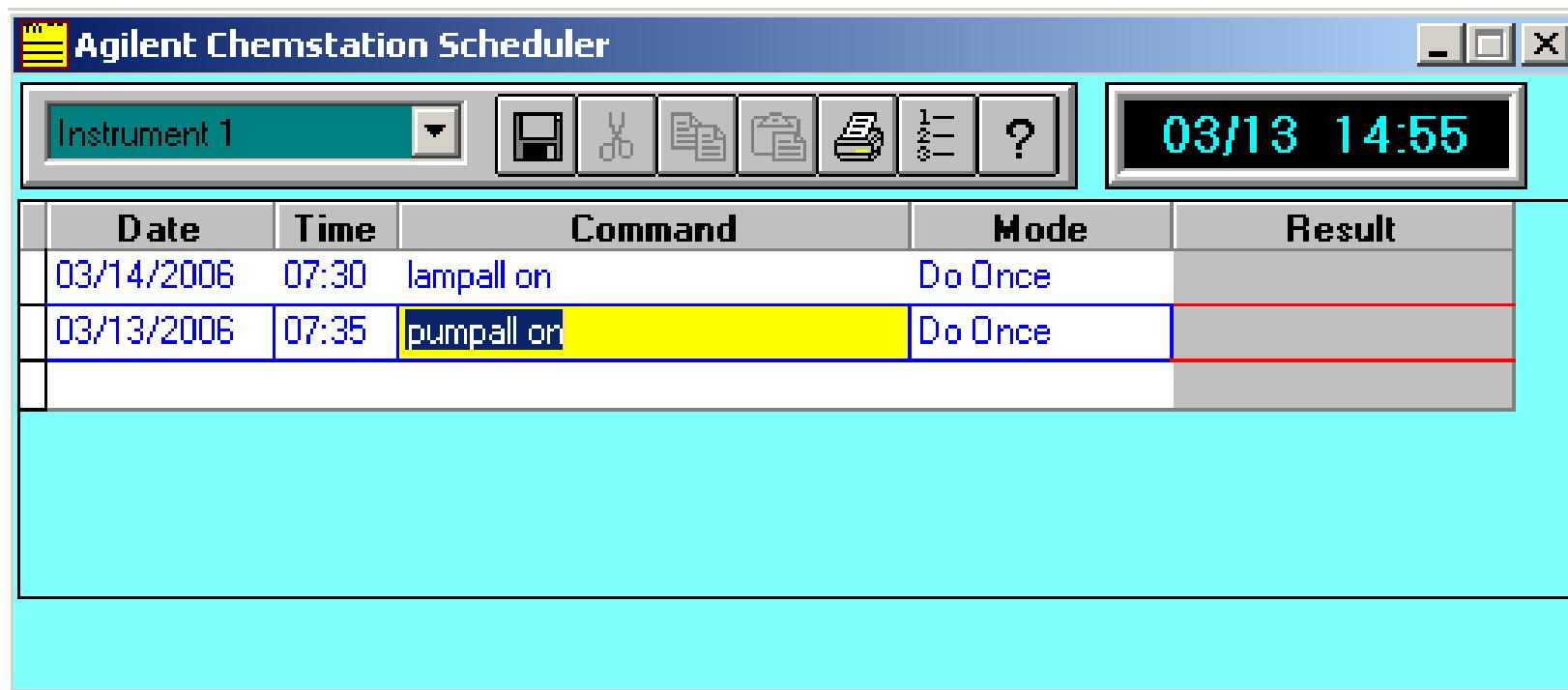
Change Access Level

Manager Level - Access to all capabilities.

Operator Level - Cannot edit and save a method.



ChemStation Scheduler



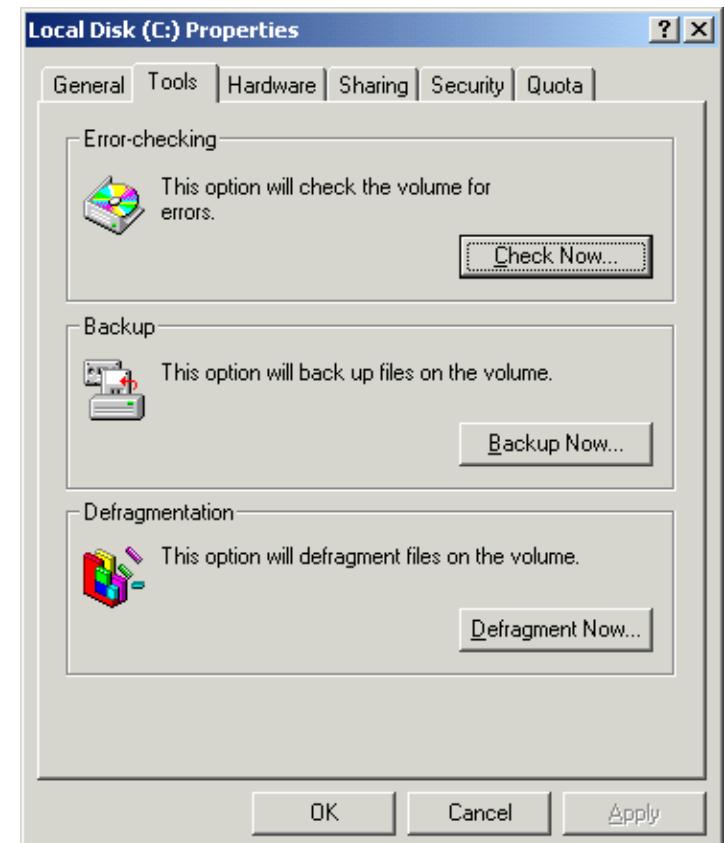
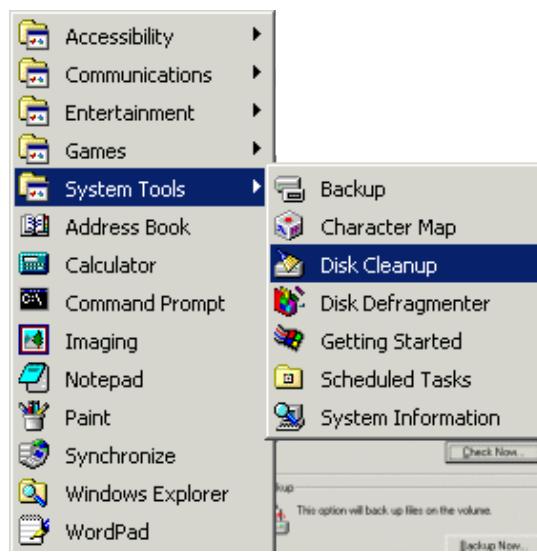
Access from:

- View menu
- Start, All Programs, Agilent ChemStation

Maintaining the Computer System

- Delete temporary files on a regular basis. Use Clean Disk for Windows 2000 and XP.
- Use Checkdisk to find and correct errors on the disk.
- Defragment the hard drive.
- Use Virus detection software.
- Create an Emergency Repair disk.

Accessories →



Right-click drive letter



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