

# Software for Continuous Flow and Flame AA Analyzers

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Update your current instruments at a fraction of the cost of purchasing a new system.

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Meet ISO 9000 and CLP requirements.

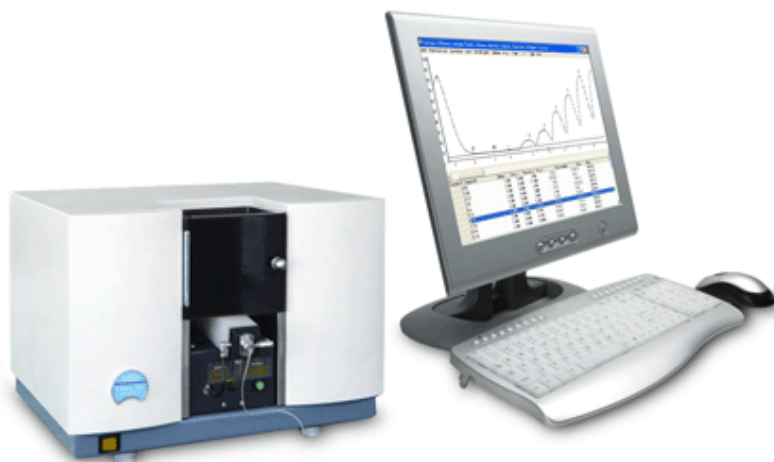
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Save time and money by eliminating tedious manual data entry and calculations.

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Eliminate transcription errors.

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**NAP** is a Windows®-based software and hardware package that collects and analyzes data from Continuous Flow Analyzers (including Technicon AAll, Alpkem RFA and Flame AA Analyzers) or any analog output capable instrument in +/- 0 to 5 volt range. Up to 6 instruments can be interfaced to one PC.

## Why Choose Labtronics?

*Since 1986, Labtronics has been creating the most popular autoanalyzer software for both customers and instrument manufacturers. We provide the technical support you need. We fully stand behind our products with a 30-day money-back guarantee.*

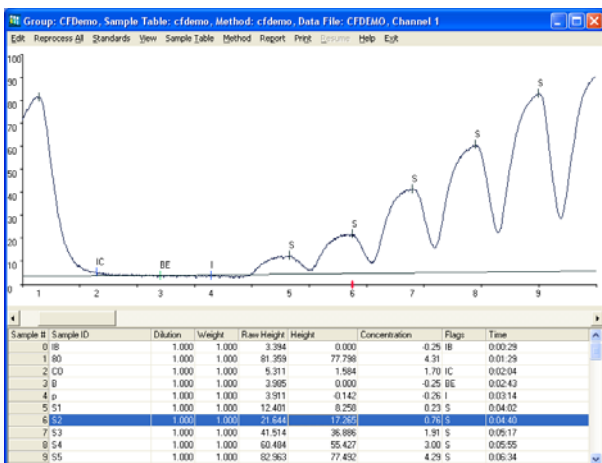
- Sophisticated peak search parameters ensure accurate analysis
- Spreadsheet format Sample Tables include cut, copy and paste functions and dynamic expansion function
- Real-time display of peaks
- Real-time calculation of concentrations
- Assignable limits and rules for samples
- Report directly to Excel® or Files
- Flexible QC Charting and sample trend analysis
- Append new samples to existing data files
- USB supported external 24-bit A/D board
- Direct interface to a LIMS or database
- Optional software control for pumps and sequential samplers
- Supported on Windows® 2000, XP® and Vista®.

## Data Collection and Calculations

Output from your instrument's detector is collected directly into NAP. A set of user-defined variables control peak analysis, allowing NAP to analyze a variety of peaks from different chemistries or instruments. Incoming data is displayed as it enters the system, peaks are identified, peak markers are displayed and concentration values are calculated automatically – all in real-time! A time stamp is applied to each peak as it is identified, allowing you to report the exact date and time of analysis for each sample.

If a peak is incorrectly marked, perhaps due to an air spike or excessive noise in a sample, NAP offers point and click editing of peak markers. Simply select the peak that needs to be edited and use your mouse to move the peak marker to the appropriate location. Results are updated automatically and an output flag is added to each sample that has been modified. Peaks can also be inserted or deleted. Peak Edits can be saved as separate files.

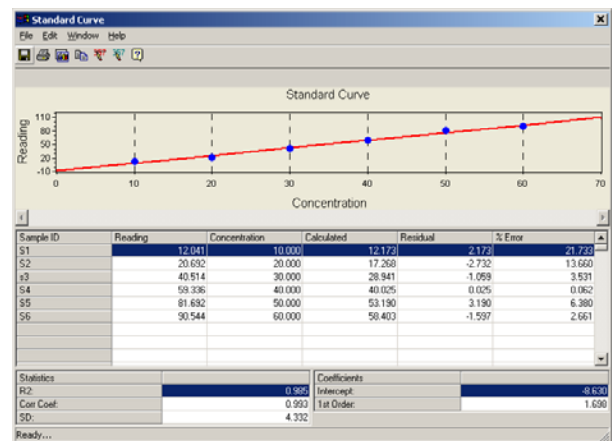
If samples are run on a regular basis, then default Sample Tables can be saved and loaded at run time. The NAP expansion function can automatically add repetitive samples and insert standards, QCs, etc., further reducing the time needed to set up a run. The spreadsheet format of the NAP Sample Table supports all of the standard Windows® editing functions, including copy, cut, paste, insert and delete. A 255-character description field in the Sample Table allows the user to include additional run information or descriptions with each Sample Table.



Peaks are displayed and concentrations are calculated in real-time.

Results are automatically corrected for Baseline Drift, Sensitivity Drift, Carryover, Dilution factors and Weight factors, using any number of correction samples. Spike recoveries are also calculated.

Standard calibration curves are created using a variety of linear and non-linear algorithms, including first, second and third order regressions and an optional function to force the curve through the origin. A single run can use multiple sets of standards. The system will be re-calibrated as each new set of standards is run.



Standard calibration curves are produced using a choice of linear and non-linear algorithms.

A Subtraction Channel automatically reports results for one channel subtracted from another. This can be used to report "background corrected" values for specific analyses.

## Reporting

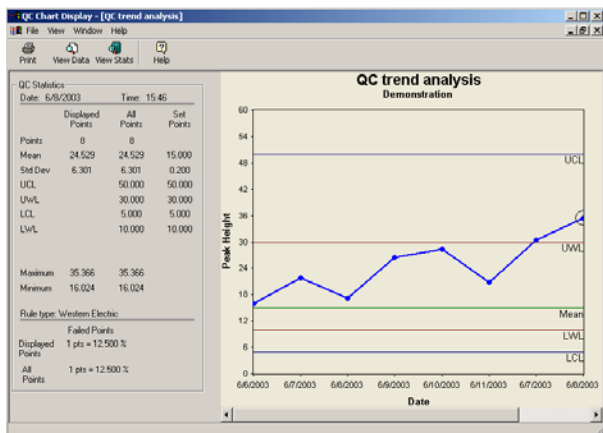
NAP provides the most complete and flexible reporting capabilities of any program of its kind. The standard NAP output report can be modified by the user to include only the parameters that are applicable to your method of analysis. For example, if your laboratory Sample IDs exceed the 20 characters allocated by the system, you can easily increase that field to meet your requirements. Fields that may not be relevant to your analysis can be removed from the final report.

NAP also includes an ASCII file export system that allows you to select the parameters, the order of the parameters and the delimiter that will be used to define an output ASCII file. This file can be configured to report directly to a LIMS, database, spreadsheet or other applications.

NAP will report any results directly to Excel®. NAP will automatically open Excel®, load a user-defined template worksheet and then add the results. Excel® provides extensive features to customize the data as required.

NAP's integrated QC charting program automatically stores results for QC samples and creates up-to-date charts, formatted to your specifications. The charts can be printed, displayed or copied to the Windows® clipboard for transfer to other applications, such as a word processor or spreadsheet.

Results from routinely analyzed samples can be plotted to provide a historical review of the data. The user has full control over the type and organization of the plots and can even specify different types of trend lines to help indicate a problem sample. Statistical analysis of the data will flag out-of-spec samples and provide an audible beep.



QC and Sample Trend charts can be automatically created and displayed.

## Run Automation

The new "Pause at End of Run" feature allows you to review a run, manually dilute any off-scale samples and rerun them as part of the same data set.

NAP automatically checks concentration, % recovery or RPD of samples. If a result is outside of acceptable limits, NAP is able to take a variety of actions, as defined by the user. This could include running the sample again or adding a special flag to the sample when reporting.

## Archive/Unarchive

Older Methods and Results can be archived and removed from the list of active files to any location on a local area network (LAN), to be stored for an unlimited amount of time to meet Industry regulation requirements for the retention of past results. At anytime, any archived data can be called up to review an analysis' historical record.

## Append/Copy-Append

To re-use standard calibration curve data files or insert new samples into existing runs, NAP includes an Append or Copy-Append feature. Data points are appended to the selected data files when the run is turned on and sample peak concentrations determined against the last calibration curve. Special samples called 'Drift Cups', inserted into the run that correspond to the standard they're assigned to, will automatically adjust corrected heights and concentrations for any baseline or gain (sensitivity drift) changes.

## LIMS Interfacing

NAP has been designed to easily interface to LimsLink, the standard LIMS interfacing tool. LimsLink methods are available, free of charge, from Labtronics that will simplify the LIMS connection.

LimsLink makes it easy for NAP to extract worklists directly from LIMS and automatically create sample tables. LimsLink also provides complete reporting capabilities back to LIMS. Once configured, reporting to LIMS uses the same option as reporting to a printer.

## Overview

### General

- Collect signal directly from instrument detector
- Up to 6 channels operate simultaneously and independently
- Separate, software adjustable, voltage ranges and collection rates for each channel
- Re-use calibration curve data files
- Change the Active and Archive data directories to anywhere on a LAN
- Over 1,000 samples per run
- Supports analog range of +/- 0 - 5 volts
- Uses 24-bit analog-to-digital board

### Data Collection and Calculations

- Curves are displayed on the screen in real-time - up to 6 at a time
- User-defined variables control peak analysis
- Real-time, on-screen editing of peak markers
- Import sample IDs, weights and dilution factors from a LIMS or database
- Calibration by 1st, 2nd, 3rd order polynomial, including a force through zero option
- Use up to 20 distinct standard values per run
- Calculate spike recoveries
- Baseline and Sensitivity drift corrections using any number of points
- Carryover corrections
- Subtraction channel automatically reports a background corrected result for grouped channels
- Out-of-range and noisy peaks are flagged
- Raw data analog curve stored to disk
- Raw data can be recalculated

### Reporting

- Export data in any customized ASCII text file format
- Integrated Excel® spreadsheet for custom report generation
- Automatic QC and trend analysis plots
- Multiple analyses can be combined in a single report
- Standard report is user-configurable

### Run Automation

- Follow CLP protocol
- "Pause at End of Run" allows for review of results before closing data file
- Automatically flag out-of-range samples
- Automatically stop run if calibration is out-of-range
- Control up to 6 pumps and samplers

### Minimum System Requirements

- Available for Windows 2000®, Windows XP® Professional, Windows Vista® Business
- Pentium III , 64 MB available RAM

*Delivering Results...  
Automatically*

Labtronics Inc.  
Tel: (519) 767-1061  
Fax: (519) 836-4431  
E-mail: di-info@labtronics.com

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[www.labtronics.com](http://www.labtronics.com)