


Clarity Lite

Clarity Lite v.2.3 vs v.2.2

Rev. A - 22. July 2004

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Measurement

1. Running external programs during acquisition

The Clarity station has been extended to allow external programs to run during acquisition.

The **Event Table** found in the **Method Setup - Acquisition** dialog contains two new columns: **Ext.Prg** and **Params**, for entering the filename of the program and its eventual parameters. In the C:\CLARITY\UTILS subdirectory there are two auxiliary programs:

- SENDCOM.EXE, described in the following chapter
- BEEP.EXE, program that beeps after being invoked.

2. Auxiliary program for sending commands over a serial line – SendCom.exe

The SENDCOM.EXE program allows a text string to be sent to a selected serial port. The selection of the COM port and of its parameters is specified in the sendcom.ini file. The text string will be set as a command line parameter or, when using the **Event Table**, it will be sent in the **Params** column. This program is useful for controlling simple devices, e.g. valves, thermostats, simple pumps. This program only communicates one way, i.e. it cannot receive and evaluate text strings from the device.

3. Pulse output in the Event table

A new type of output called "*Pulse*" has been implemented to the **Event Table**. When activated, the selected digital output will change from its initial state for a selected time and then return back. The default length of the pulse is 100 ms and can be modified in the CLARITY.INI file.

4. Selecting detectors as a part of the method

If it is unnecessary to measure on all detectors configured on the device, it will be easy to directly omit unused detectors from the measurement in the method. The **Enabled** checkbox, located above the **Acquisition** tab in the **Method Setup** dialog, can omit



the currently displayed detector from the measurement.

5. New variables for filename templates

Filenames (**FileName** field in the **Single Analysis** dialog or analogous column in the **Sequence** window) can contain the Values from the **Sample** and **Sample ID** fields. The variables are as follows:

%Q (**Sample**) or *%q* (**Sample ID**).

6. Displaying noise in the Data Acquisition window

The current values of noise for all measured signals can be displayed in the **Data Acquisition** dialog. The display is enabled using the **Show Noise** checkbox in the **Graph Properties** dialog (**Display-Properties** menu).

7. New variables in the Run Program field

The **Run Program** field in the **PostRun** command can now contain following variables:

%f - the filename of the chromatogram

%e - the filename of the exported file

A typical usage for this is to automatically open exported data in MS Excel.

Chromatogram

8. Move and Scale commands in multi-detector chromatograms

Shifting of chromatogram and changing of its scale can now be performed for all signals at once in multi-detector chromatograms. To do this, the command has to be invoked while holding down the Shift key.



9. Improved Chromatogram List dialog

Active and hidden signals can now be easily distinguished in the **Chromatogram List** dialog. The active signal is highlighted in bold letters. Hidden signals are displayed in grey colour.

10. Import RAW command moved

The **Import RAW** command from the **File - Import** menu has been transformed into a **File Type** parameter in the **Save As** dialog. This is invoked using the **File - Import Chromatogram** command.

Calibration

11. History of all points of the calibration curve

Every calibration curve now contains a historical record of each point. Stored information includes: the name of the calibration standard, retention time, area, height and date of a (re)calibration.

12. Displaying the Deviation of each calibration point

A new **Deviation[%]** column has been implemented into the calibration table of individual compounds. The new column displays the deviation of each point from the calibration curve (deviation of amount) in percent.

13. Displaying the residuum of the calibration curve

The description of the calibration curve now also provides the residuum of responses of the calibration curve (the sum of squares of deviations of responses of all calibration points from the displayed calibration curve).



Results

14. Calculating chromatogram noise and drift

The noise and drift over a specified interval can be displayed above the **Result Table**. Use the **Noise Evaluation** and **Drift Evaluation** commands from the **Chromatogram - Noise & Drift** menu to activate the display and select the interval.

15. The order for displaying Chromatogram/Signal in the Summary Table

The order for displaying the Chromatogram / Signal in the **Summary Table** can be altered. It is then easier to compare the signals from a selected detector across all displayed chromatograms.

16. Extended number of parameters in the Summary Table

The **Summary Table** can now display the same standard columns as the **Result Table**.

17. Extended options for displaying parameters in the result tables

The **Result** and **Summary** tables enable all columns to be displayed, regardless of the selected method of the calculation. E.g. it is possible to display the **Area** and **Height** columns even in the calibrated calculations. The same applies to the custom calculations with these columns.

18. New Response Base checkbox for unidentified peaks

When using unidentified peaks, it is possible to select whether the Response Factor calculation will be performed according to the area or height of these peaks.

Print

19. Printing images

Including the option to print images has enhanced printed reports. Images of any size can be used in



the common file formats (BMP, JPG, GIF, WMF, ICO, etc.)

20. Signal printing options

When printing multidetector chromatograms the **Result Table** can be printed to all chromatograms, to the active chromatogram or only to the active signal.

21. Black&White printing

The Black&White print option optimizes the way coloured chromatograms and tables are printed on black and white printers. Instead of converting to gray levels, all colours will automatically be converted to black or white only.

22. Printing multiple chromatograms separately

When printing multiple chromatograms in the Overlay mode it is possible to print in a single graph or separately print a graph for each chromatogram (or even each signal).

23. Printing additional information about a chromatogram

The **Report Header** has been extended by the **Last modified** field – the date of last modification of the chromatogram.

24. Report Setup – simplified Chromatogram dialog

The **Peak Tags**, **Baseline** and **Labels** checkboxes in the **Report Setup - Chromatogram** dialog have been discontinued. Printing these items is now WYSIWYG, i.e. it depends on whether they are currently displayed in the **Chromatogram** window or not.

Other

25. Demo mode

The Demo mode does not allow for the importation of chromatograms. It is impossible to work with chromatograms that have been created in the full version in the Demo mode.