

## 7.1 VS 7.0

Clarity Software

ENG

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Sections of the manual connected only to the **Clarity Full** version are marked with the  icon.

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To facilitate the orientation in the **7.1 vs 7.0** manual and **Clarity** chromatography station, different fonts are used throughout the manual. Meanings of these fonts are:

**Instrument** (blue text) marks the name of the window to which the text refers.

*Open File* (italics) describes the commands and names of fields in **Clarity**, parameters that can be entered into them or a window or dialog name (when you already are in the topic describing the window).

WORK1 (capitals) indicates the name of the file and/or directory.

*ACTIVE* (capital italics) marks the state of the station or its part.

The bold text is sometimes also used for important parts of the text and the name of the **Clarity** station. Moreover, some sections are written in format other than normal text. These sections are formatted as follows:

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**Note:** Notifies the reader of relevant information.

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**Caution:** Warns the user of possibly dangerous or very important information.

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**Marks the problem statement or trouble question.**

**Description:** Presents more detailed information on the problem, describes its causes, etc.

**Solution:** Marks the response to the question, presents a procedure how to remove it.

# 1 Preamble

This document will guide you through the news and improvements in the **Clarity** Chromatography Station version **7.1**.

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*Note:* Version **7.1** serve primarily as service pack, concerning stability and fixing of found bugs and thus number of new features is limited.

**The most interesting features of version 7.1 include:**

- *Apex Value* column added to result tables.
- Various **Clarity** improvements and bug fixes.
- New and updated control modules.

## 2 Clarity

### 2.1 New peak *Apex Value* column in result tables

New *Apex Value* column has been implemented in *Result Table* as well as in the *All Signals Result Table*.

It displays y-axis value of a peak's apex for all recognized peaks in the chromatogram.

	Reten. Time [min]	Apex Value [mV]	Response	Amount [mg/l]	Amount% [%]	Peak Type	Compound Name
1	3,707	103,405	153,379	0,000	0,0		
2	5,307	90,492	92,330	0,374	14,3	Ordnr (by ISTD 1)	Chloride
3	7,633	86,906	102,178	ISTD	ISTD 1	ISTD 1	Bromide
4	8,980	80,931	236,197	1,775	67,7	Ordnr (by ISTD 1)	Nitrate-N
5	11,193	90,170	85,231	0,471	18,0	Ordnr (by ISTD 1)	Sulphate
Total				2,620	100,0		

Fig 1: *Result Table* - *Apex Value* column

In the default layout this column is hidden. To display it, right mouse click anywhere in the *Result Table*, choose *Setup Columns...* and in the dialog select to show *Apex Value* column.

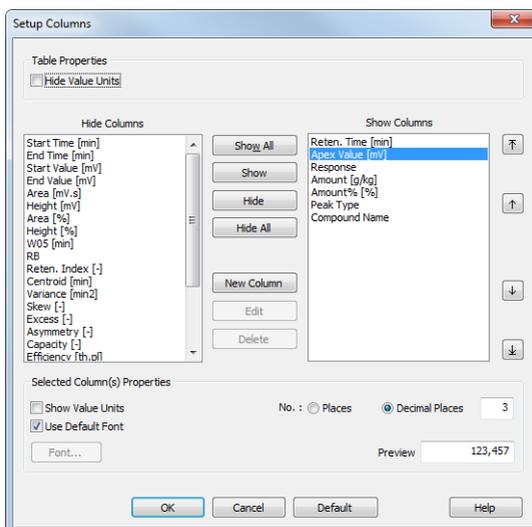


Fig 2: *Setup Columns* - show *Apex Value* column

The *Apex Value* column, can be used in the *User Columns* to determine for example whether a peak is positive (red peak) or negative (yellow peaks). *Polarity* (*User Column*), highlighted by the green rectangle, is using *Apex Value* to determine whether a peak is positive (+1) or negative (-1). Intended primarily for advanced users.

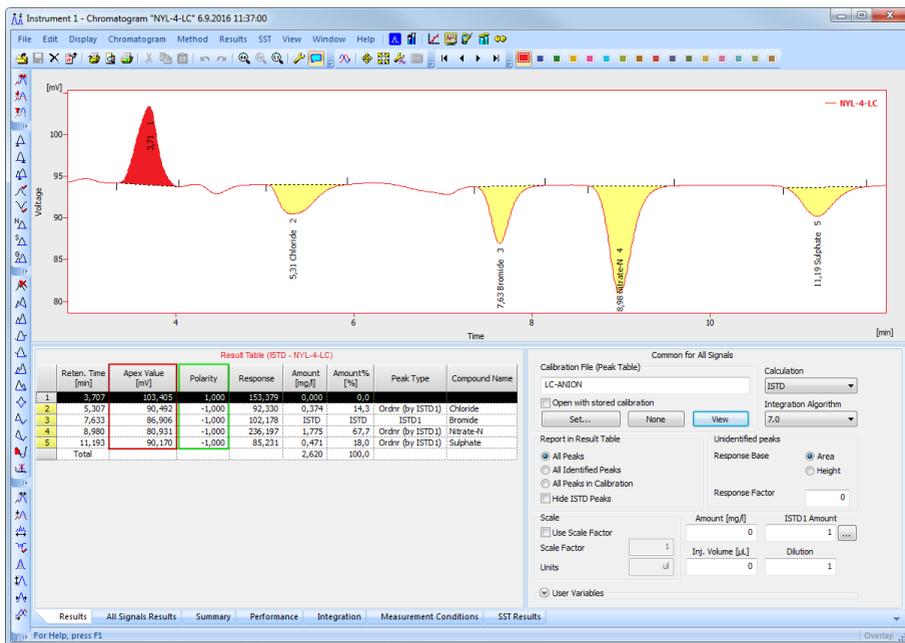


Fig 3: Polarity User Column

## 2.2 Various changes in Clarity 7.1

- In the main Clarity window we have added support for tooltips describing configuration (set in the *Instrument Type* in the [System Configuration](#)) of individual instruments. This feature is especially helpful for stations that have more than one instrument configured. Simply point mouse cursor over **Clarity** instrument and the configuration will be displayed in the tooltip.
- We have disabled the *Sign* feature that allowed to electronically sign multiple chromatograms at once. The reason for this is because it does not follow **GLP** (Good Laboratory Practice). Nonetheless function *Sign* has been preserved in the chromatogram.
- KeyEnter dialog displays the station serial number detected from the hardware key.
- Teamviewer QuickSupport utility updated to version 11.

## 3 New and updated control modules

This section contains new and updated control modules introduced to Clarity.

### 3.1 Advion

**Updated:**

- Advion Expression CMS - API updated to version 3.1.21.1.

### 3.2 Knauer

**Updated:**

- Knauer drivers were updated to version 6.0.1.5029.

### 3.3 Vici - Valco

**Updated:**

- Vici Valco multi-position valve can be used as autosampler.

### 3.4 Other control modules

**New:**

- R-Biopharm Ridacrest (sample preparation system) auxiliary control module is now in the Released state.

**Updated:**

- GCxGC Modulator (developed by Faculty of Science, Charles University in Prague) control module is now in the Released state.
- Varian 212-LC control module by UNI-RUBY script is now in the Released state.