



# Clarity 8.8

## WHAT'S NEW

P059/80A 10/2022



## What is new in Clarity 8.8?

- A new function **Filter Not Used Compounds** in Calibration
- A new option to Export Data to **CSV format**
- A new option to **Offset data** in Colibrick
- Colibrick, U-PAD2 and Zebrick now use **WinUSB driver**
- **UNI-Ruby** control modules now **support User Units** settings
- A new current unit **nanoamperes "nA"**
- **Integration Algorithm updated** to version 8.0 Rev.3

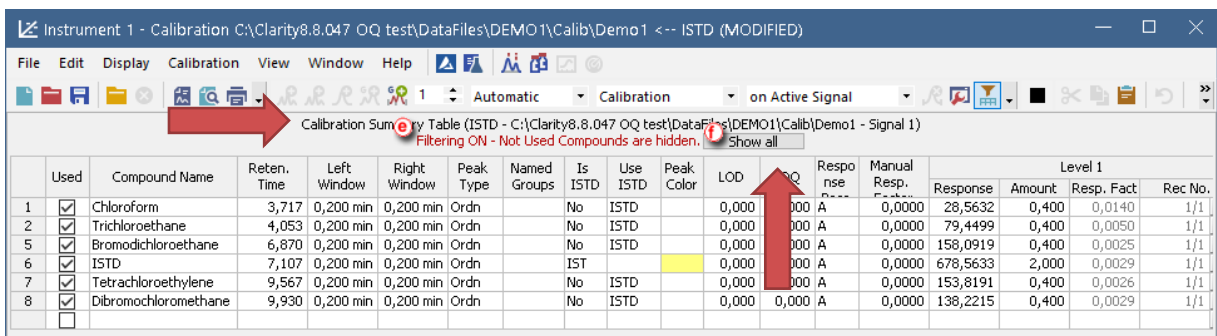
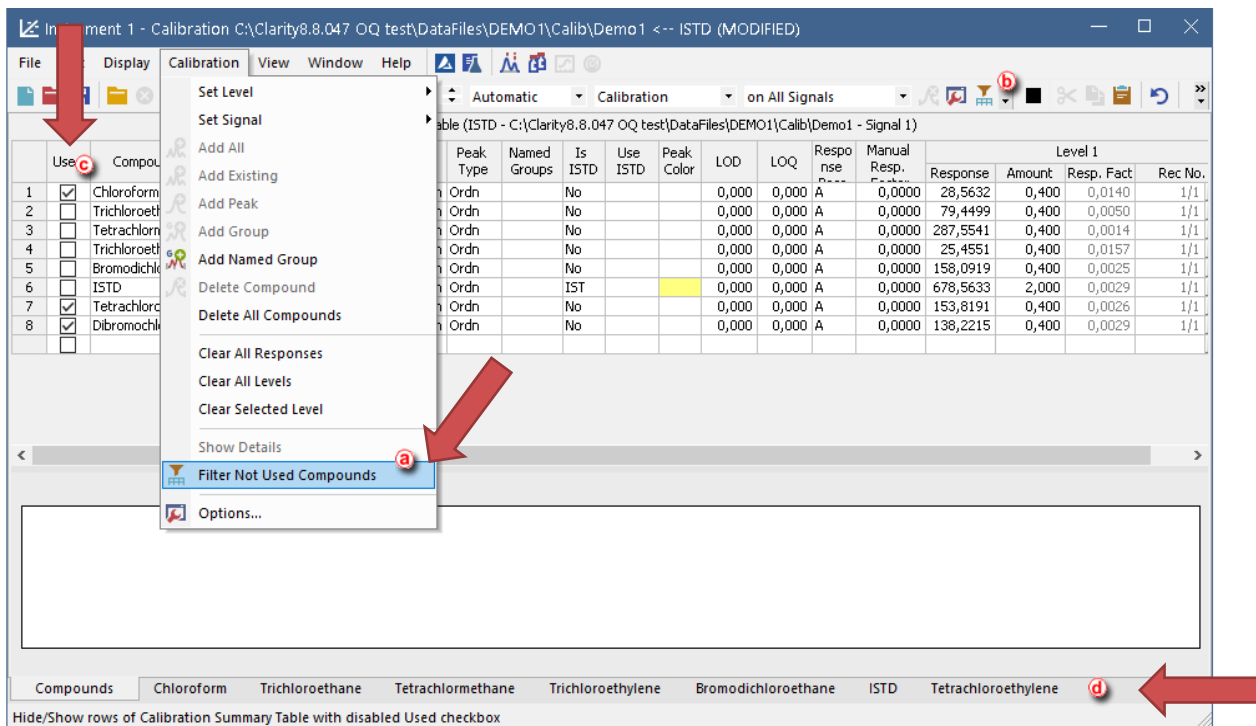


## What is new in Clarity 8.8?

- A new **dynamic Open chromatogram button** indicating use of Overlay Mode
- New columns "**Start Value (Signal)**" and "**End Value (Signal)**" for Peak to Valley Ratio calculation
- A new **improved method of rescaling for Peak Purity calculation** in PDA Extension
- New and updated control modules



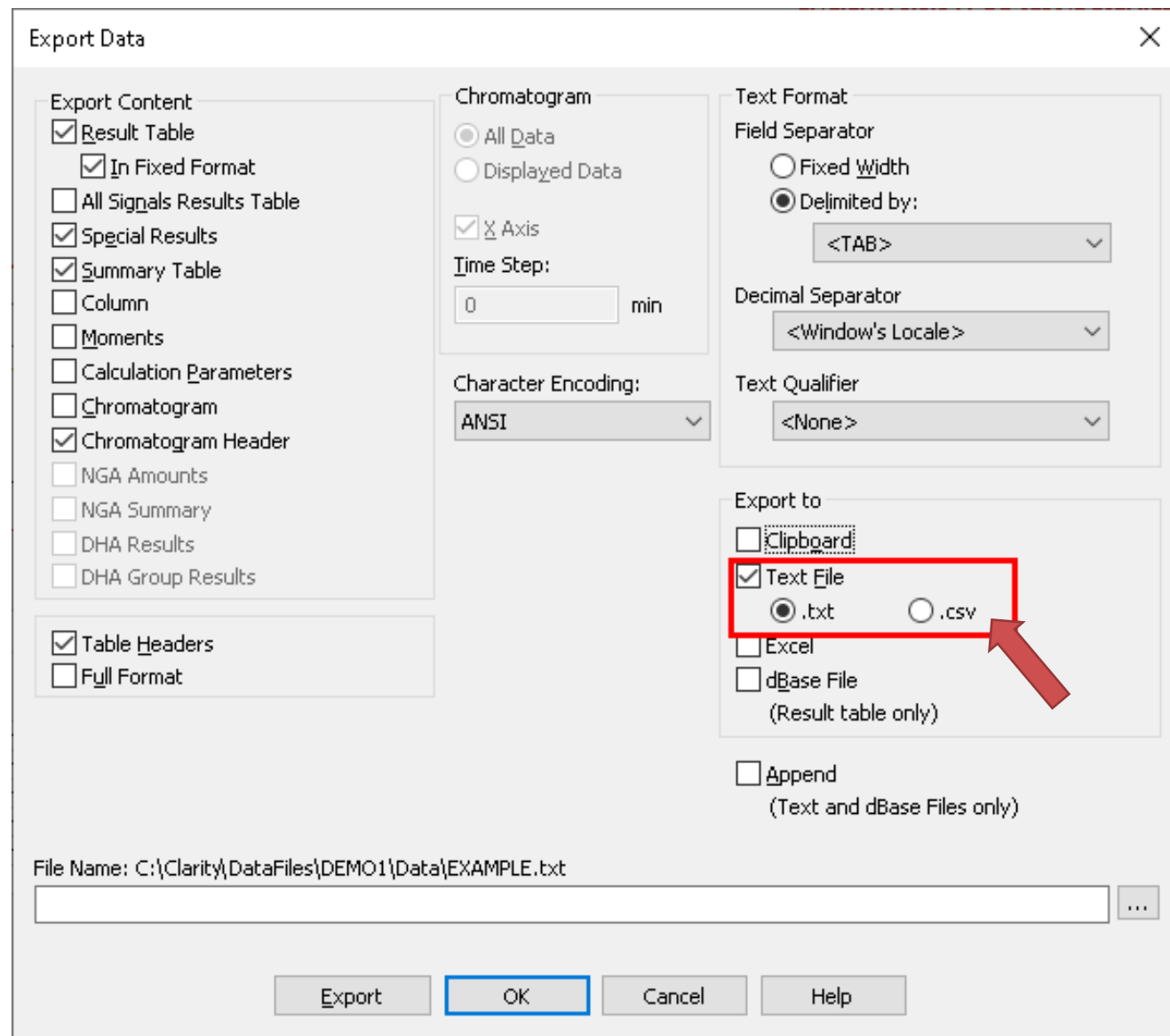
# WHAT'S NEW → FILTER NOT USED COMPOUNDS



- A new option in Calibration menu
- Allows to hide rows with disabled Used check-box on selected signal
- Corresponding Compound tabs are hidden
- Eases work with multisignal chromatograms
- Eases work with calibrations with compounds relevant to a particular signal
- Helps to make the Calibration Summary Table clear and easy to read
- Use of the Filter is indicated in table header
- Restore rows by Show all
- Saved in \*.dsk file and Print Report



- A new option in Export Data dialog
- Text file in CSV format (= comma-separated values)





**DataApex Colibrick Setup**

Device: Colibrick (Serial No: 5933)

Channel 1  
Name: Colibrick - 1  
Quantity: Voltage  
Offset: 0 mV  
Coefficient: 1 mV / 1 mV  
Units: mV  
Autoprefix: Yes  
 Inversion of Signal  
 Bipolar  
 Synchronize Start with Digital Input  
Digital Input 1

Channel 2  
Name: Colibrick - 2  
Quantity: Voltage  
Offset: 0 mV  
Coefficient: 1 mV / 1 mV  
Units: mV  
Autoprefix: Yes  
 Inversion of Signal  
 Bipolar  
 Synchronize Start with Digital Input  
Digital Input 1

→ A new option to **Offset data** in Colibrick

→ Allows to set **zero signal different than 0 mV** (default)

→ Corresponds to the value that should be **deducted from the measured data** to receive the real one

→ Accessible from **Set Units... dialog**

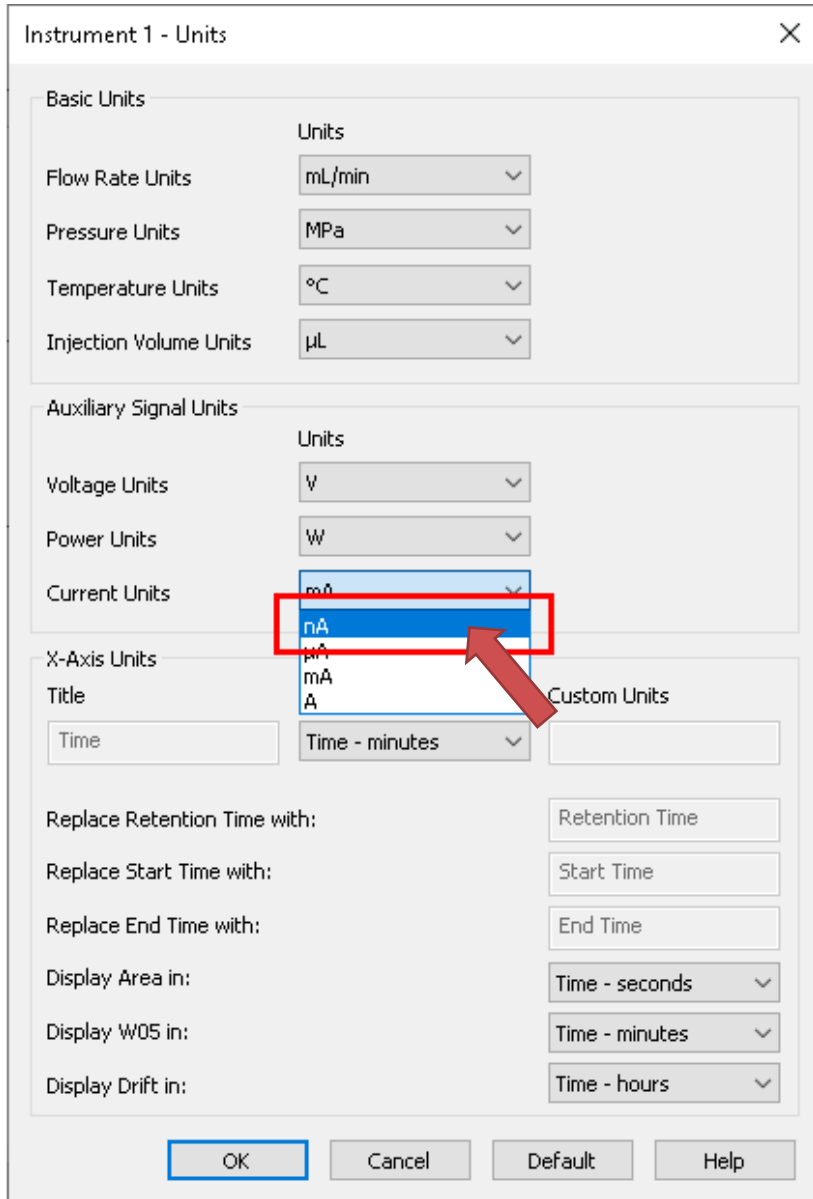
**Detector Units**

Quantity: Voltage  
Units: m V  
Offset: 25 mV  
Coefficient: 1 mV / 1 mV  
 Autoprefix

OK Cancel Default Units Help



- Colibrick, U-PAD2, Zebrick use **WinUSB driver from Microsoft** instead of the driver from Silicon Laboratories Inc.
- Solves stability issues



- UNI-Ruby control modules now support User Units settings
- A new current unit nanoamperes “nA”





# WHAT'S NEW → DYNAMIC OPEN CHROMATOGRAM BUTTON

Open Chromatogram - C:\...

Look In: Data

Name	Size	Type	Created	Last Change
2506MULTI.prm	1675 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
EXAMPLE.prm	1280 kB	PRM File	15.09.2022 18:40	22.09.2022 17:22
PERS01.prm	983 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
PERS02.prm	942 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_6-1.prm	854 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_6-2.prm	854 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_7-1.prm	855 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_7-2.prm	856 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_8-1.prm	853 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_8-2.prm	854 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_9-1.prm	855 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40
Sample_Vial_9-2.prm	853 kB	PRM File	15.09.2022 18:40	15.09.2022 18:40

File Name: Sample\_Vial\_6-1.prm; Sample\_Vial\_6-2.prm; Sample\_Vial\_7-1.prm; ...

File Type: Chromatogram files (\*.prm)

Version: Recent

Signals:  
 All signals  
 Signal 1  
 Signal 2  
 Signal 3

Open in Overlay

Cancel

Details for:  
Created By: <varies> Created: From to 31.08.2004  
Modified By: <varies> Modified: From to 22.09.2022  
Sample ID: <varies> Description:  
Sample: <varies> Time:  
Signature: <varies> Has PDA Data:  
GLP Mode: Off Has MS Data:

- A new dynamic label on Open chromatogram button indicating Overlay Mode
- Improved indication in File menu

Instrument 1 - Chromatogram "C:\Clarity8..."

File Edit Display Chromatogram Method

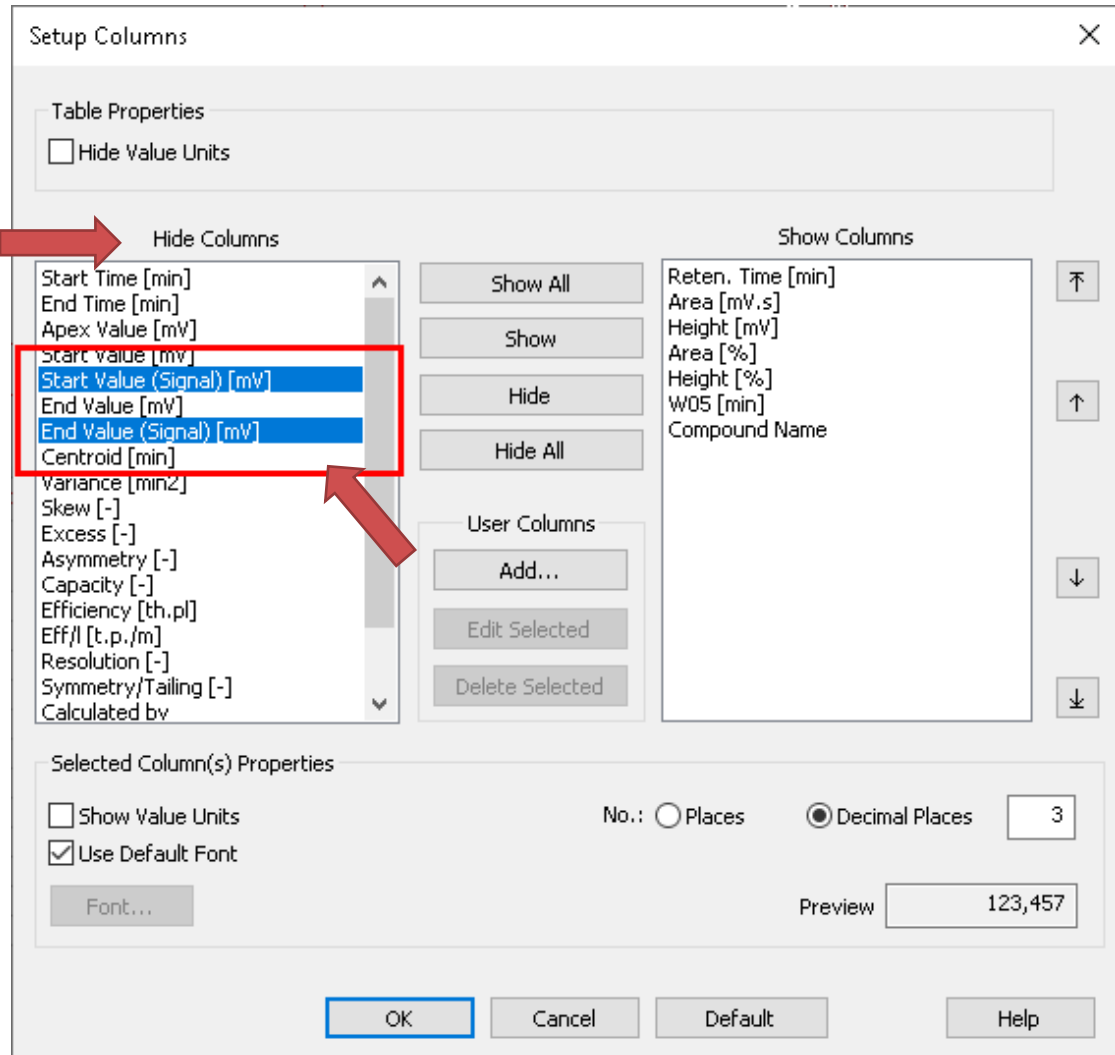
Overlay Mode Off

Open Chromatogram Ctrl+O

Browse Through Chromatograms

Open Chromatograms From Sequence...

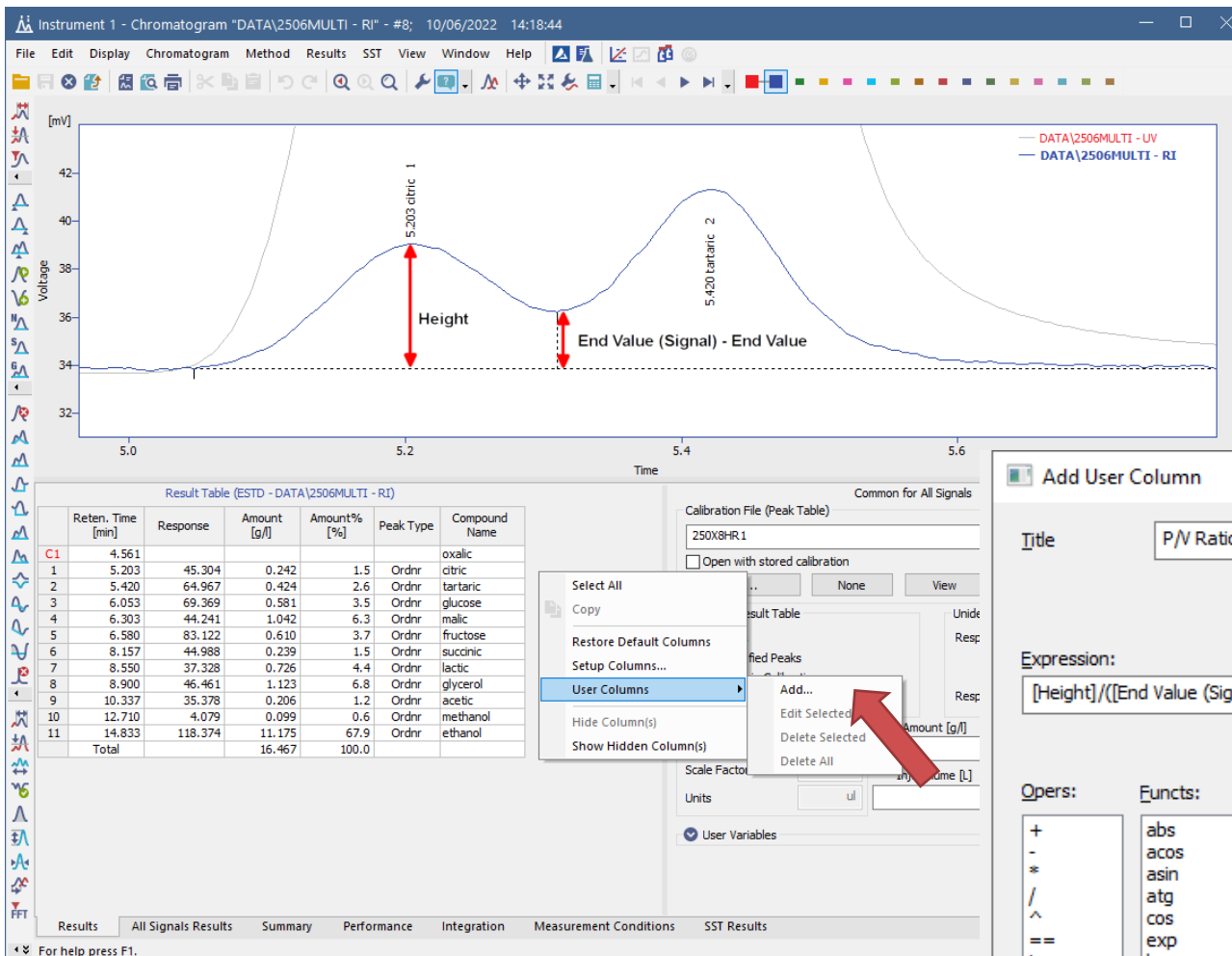
Close Ctrl+W



- New columns **"Start Value (Signal)"** and **"End Value (Signal)"**
- Hidden by default
- Useful for Peak to Valley Ratio calculation



# WHAT'S NEW → PEAK TO VALLEY RATIO



## Peak to Valley Ratio calculation:

➔ Add new User Column

➔ Define the Expression

**Add User Column**

Title: P/V Ratio Units:

Calculate Total

Expression: [Height]/([End Value (Signal)]-[End Value])

Oper: +, -, \*, /, ^, ==, !=, <=, >=, <, >

Funct: abs, acos, asin, atg, cos, exp, ln, log, max, min, round, sin, sqrt

Columns: Eff/, Symmetry/Tailing, Resolution, Response Factor, Correction Factor, Start Time, End Time, Start Value, End Value, Apex Value, Start Value (Signal), End Value (Signal)

Variables: Sample Amount, Sample Dilution, Injection Volume, ISTD1 Amount, ISTD2 Amount, ISTD3 Amount, ISTD4 Amount, ISTD5 Amount, ISTD6 Amount, ISTD7 Amount, ISTD8 Amount, ISTD9 Amount, ISTD10 Amount

Special Values



- **Integration Algorithm** was updated to **version 8.0 Rev.3**
- The Pearson correlation coefficient (noted as **Correlation** in Clarity), used for Peak Purity or Match Factor calculations, now uses **an improved method of rescaling** to the resulting 0-1000 interval.
- And many other small improvements have been made and many bugs fixed



## New control modules

- Analytik Jena PQ LC PDA Detector
- Axcend Focus LC
- Chromophor PDA Detector
- CQS Climax S 3345 and S 3350 PDA Detectors
- ECE-001
- Knauer P8.1L pump
- RotaChrom rCPC
- Schambeck S 4345 and S 4350
- Sykam S3345 and S3350
- Watrex Streamline PDA



... and many control modules have been updated and improved, for more see [https://www.dataapex.com/version\\_history](https://www.dataapex.com/version_history)



**...THANK YOU FOR YOUR TIME**



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