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Clarity™

ADVANCED CHROMATOGRAPHY SOFTWARE

NGA – NATURAL GAS ANALYSIS

CLARITY EXTENSION

DataApex

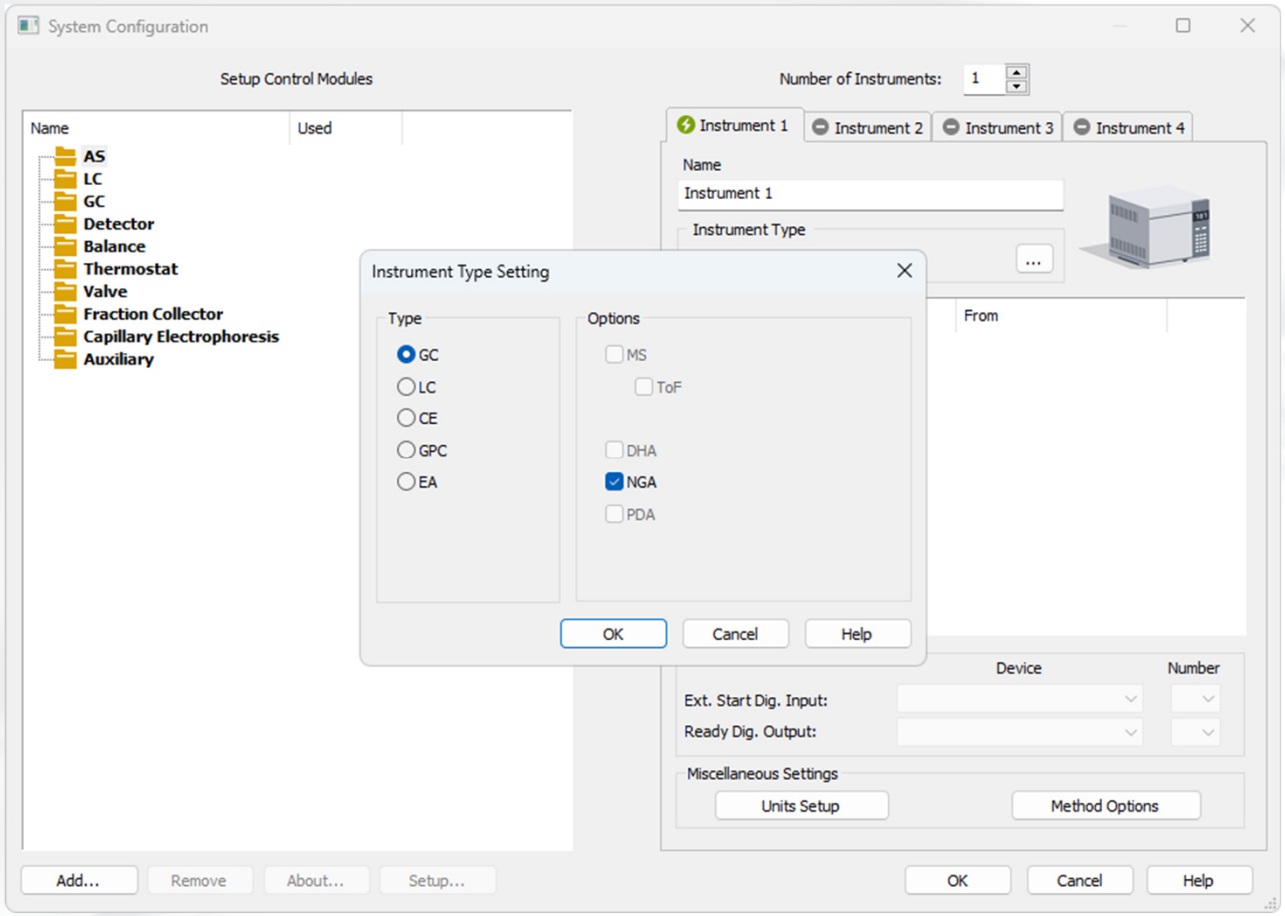
NGA EXTENSION

OVERVIEW

- Natural or LPG Gas Analysis
- Calculates the Calorific values according to
  - Natural Gas ISO 6976-16 (and 95)
  - Natural Gas ASTM D 3588-98 and GPA 2172-09
  - LPG ASTM D 2598-02 / 2421-02
  - LPG ISO 8973-97 / EN589-04
- Multiple detectors supported
- Individual or Summary results
- Export of results

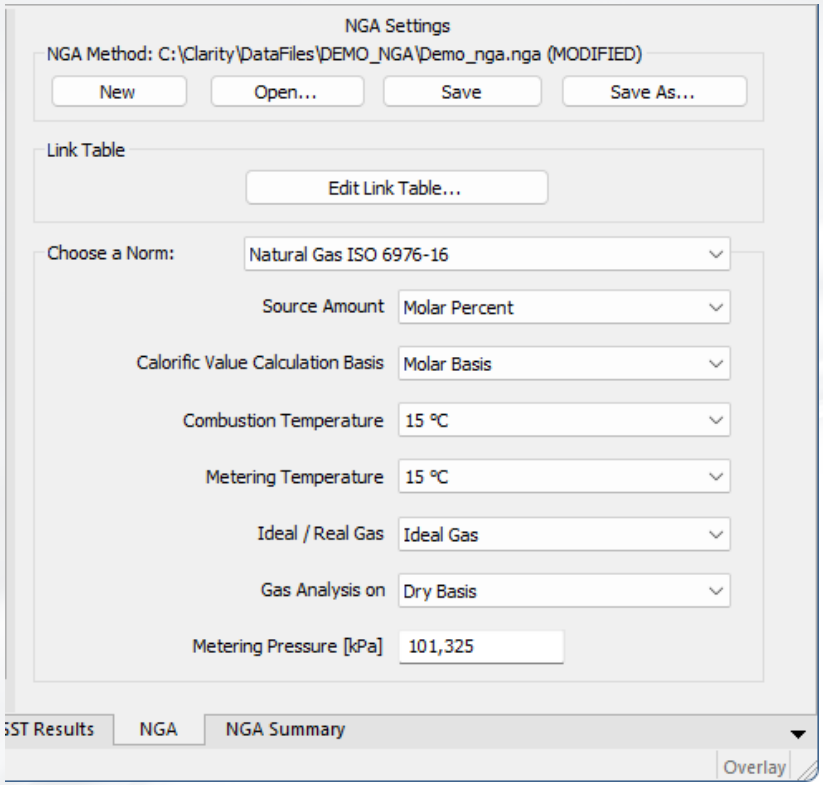
https://www.dataapex.com/product/extensions-NGA

SYSTEM CONFIGURATION



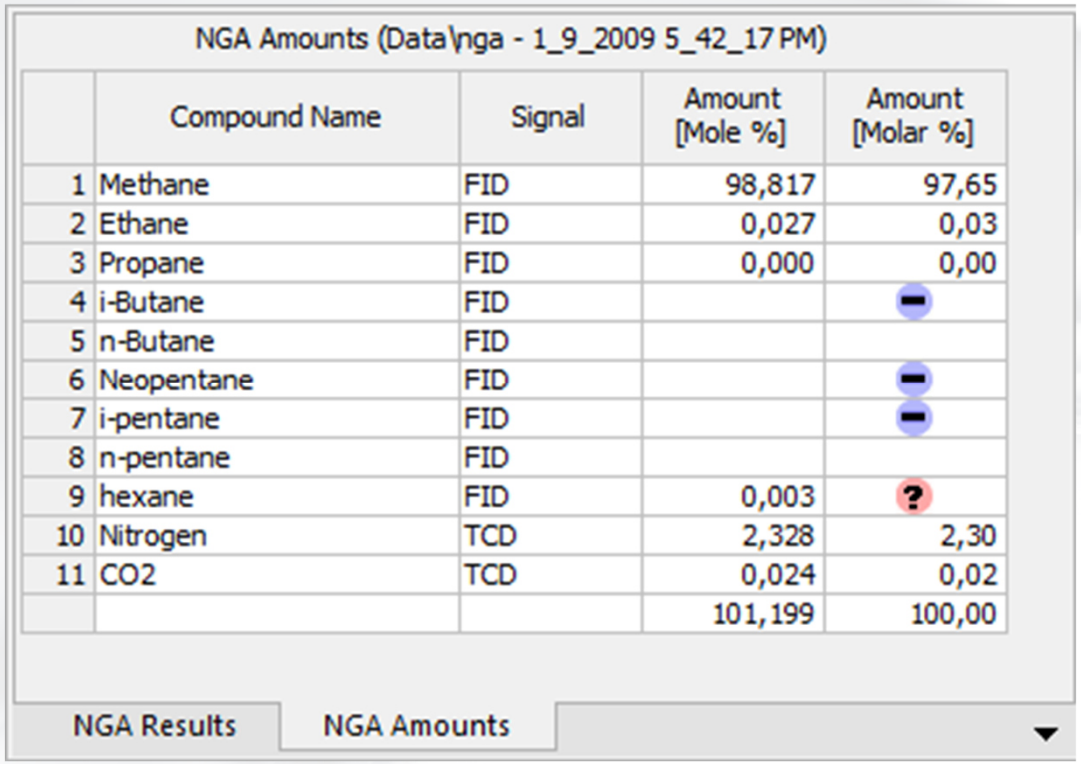
- NGA Instrument is configured in the System Configuration window
- NGA can be enabled on a station where p/n A32 is purchased

SETTINGS ON THE NGA TAB



- NGA Result tab in the chromatogram window
- Select the NGA method
- Edit Link Table...
- Choose a Norm and set preferences

NGA AMOUNTS



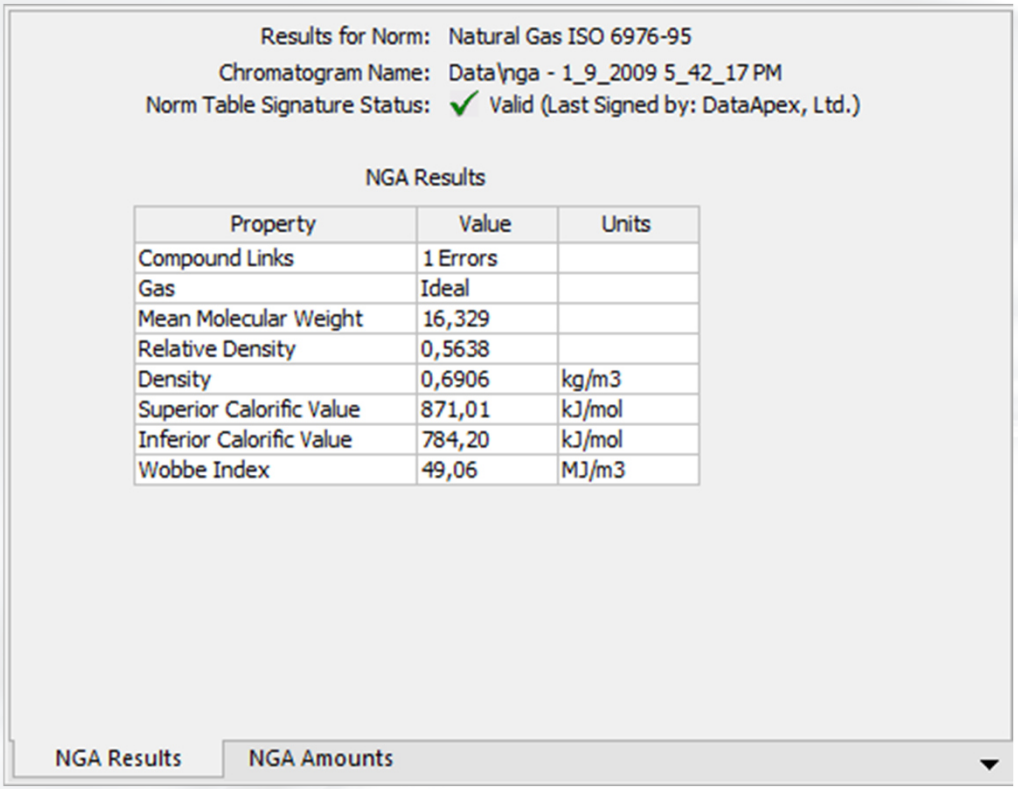
NGA Amounts (Data\nga - 1_9_2009 5_42_17 PM)

	Compound Name	Signal	Amount [Mole %]	Amount [Molar %]
1	Methane	FID	98,817	97,65
2	Ethane	FID	0,027	0,03
3	Propane	FID	0,000	0,00
4	i-Butane	FID		
5	n-Butane	FID		
6	Neopentane	FID		
7	i-pentane	FID		
8	n-pentane	FID		
9	hexane	FID	0,003	
10	Nitrogen	TCD	2,328	2,30
11	CO2	TCD	0,024	0,02
			101,199	100,00

NGA Results | NGA Amounts

- Display the amounts and Amount% calculated over all signals
- Shows warnings for individual compounds:
  - Compound name not found in NGA table
  - Compound not used in selected norm
  - The same compound used on several signals

NGA RESULTS

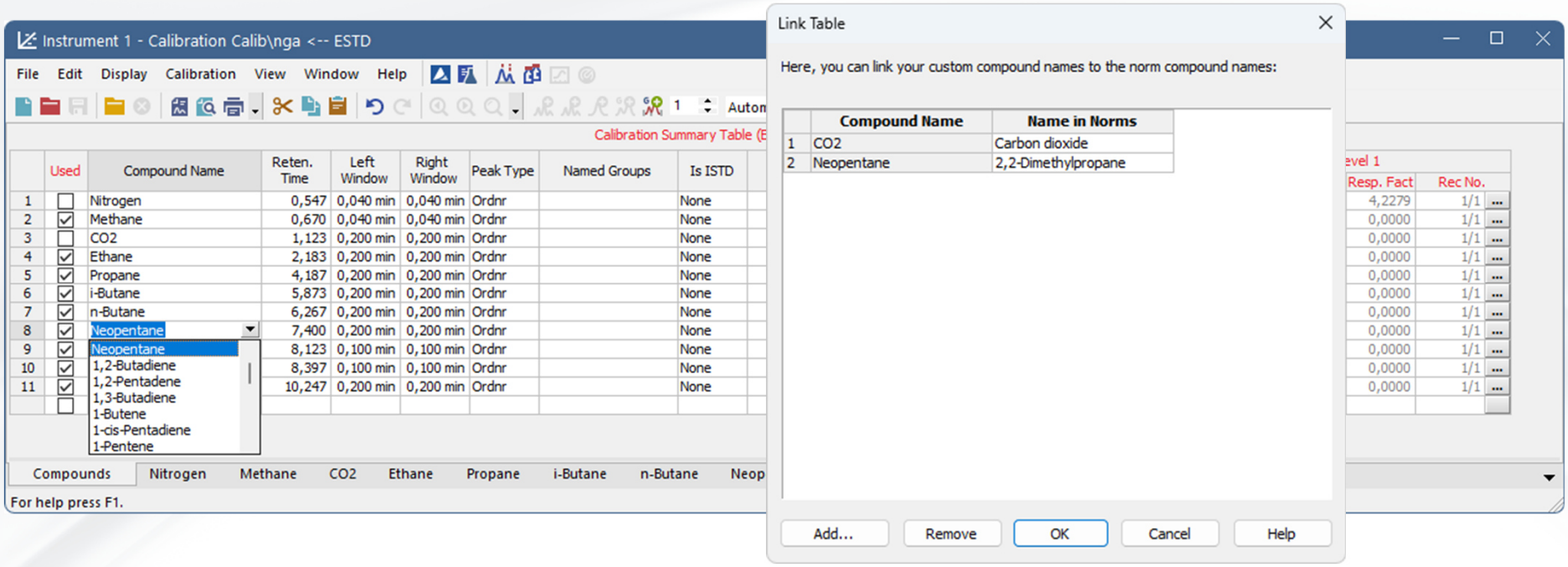


Property	Value	Units
Compound Links	1 Errors	
Gas	Ideal	
Mean Molecular Weight	16,329	
Relative Density	0,5638	
Density	0,6906	kg/m3
Superior Calorific Value	871,01	kJ/mol
Inferior Calorific Value	784,20	kJ/mol
Wobbe Index	49,06	MJ/m3

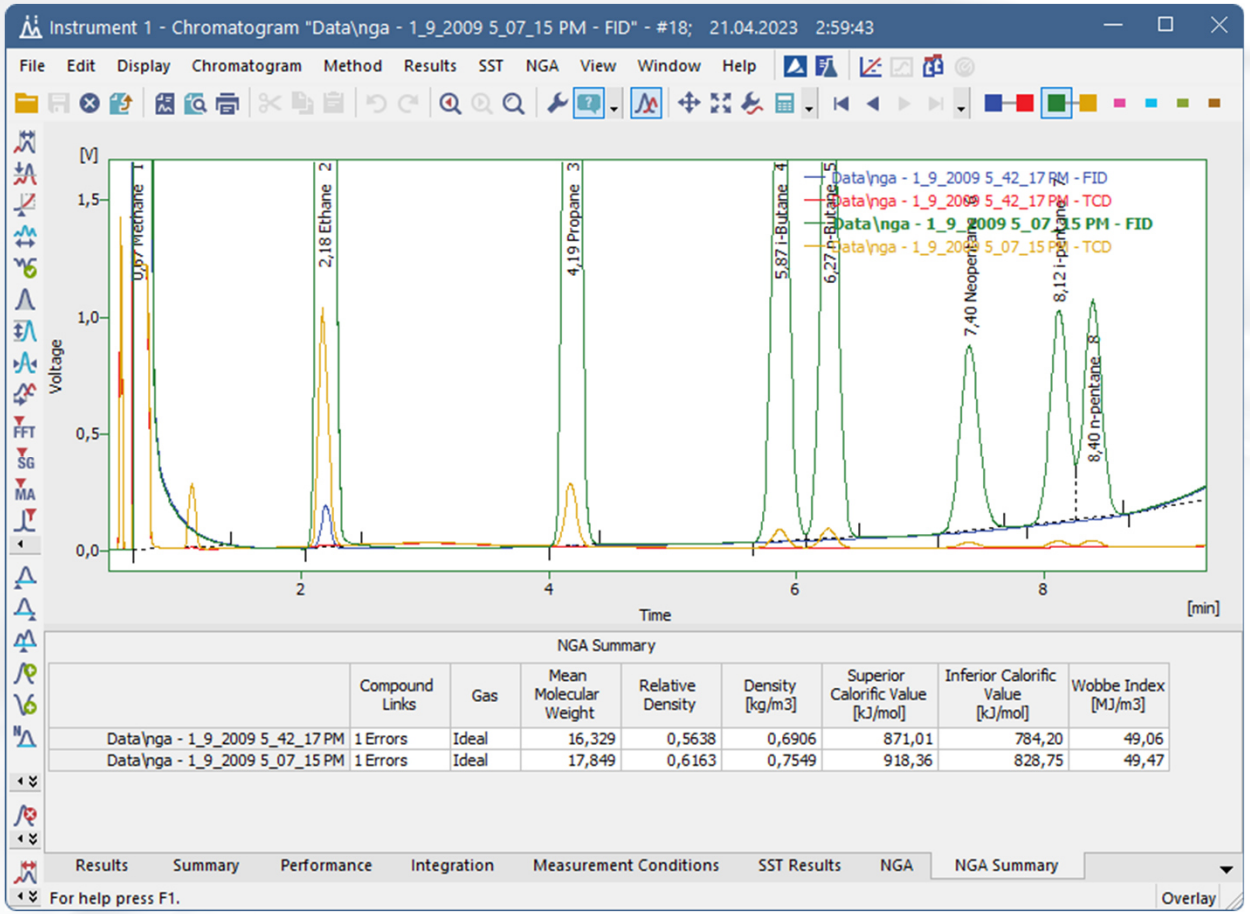
- Shows the calculated results
- Shows the method and norm info

NGA CALIBRATION

- Compound names from the NGA Norm table are offered in calibration
- In the Link Table you can link different names to the compounds listed in the norm
- In multisignal chromatograms each compound could be used on one signal only



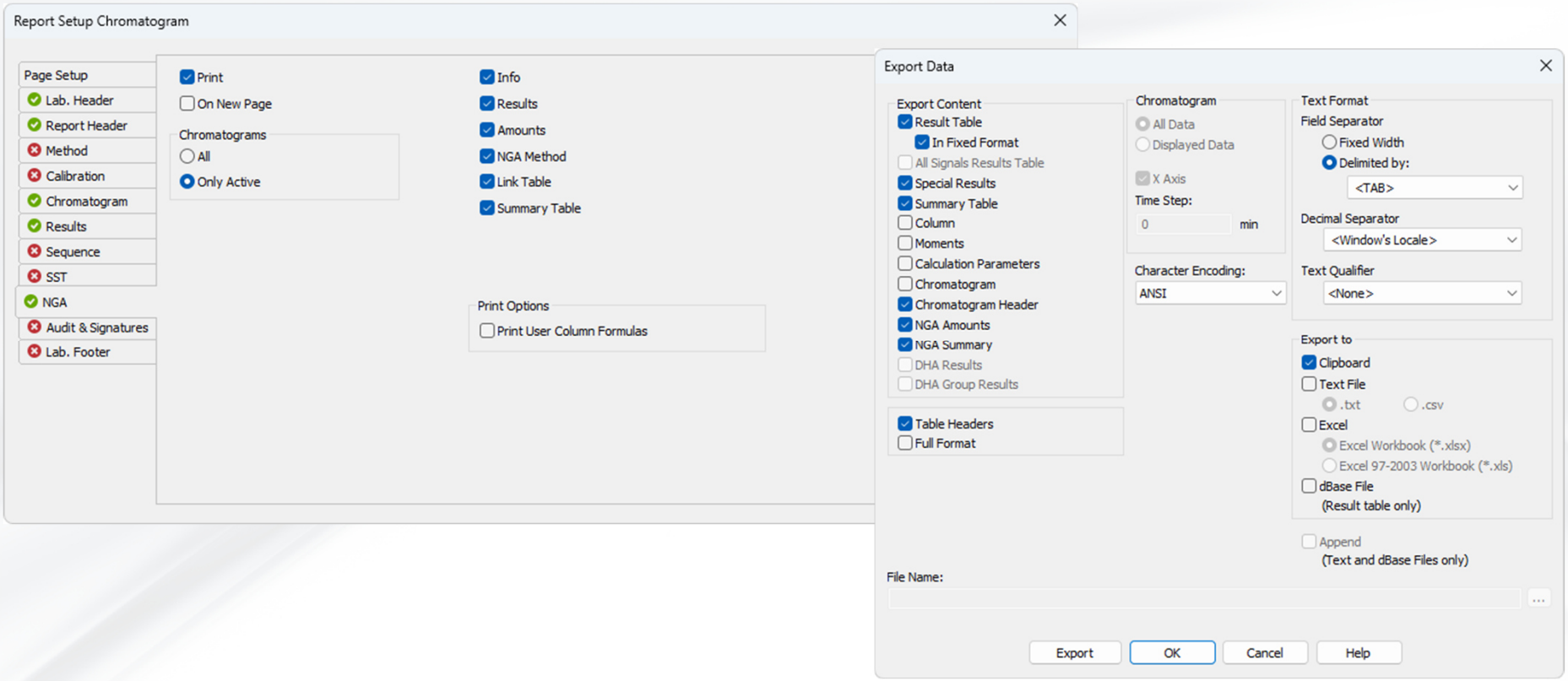
NGA SUMMARY



- NGA results are shown for all chromatograms in overlay

NGA REPORTS & EXPORTS

- Options for NGA in the Report Setup and in the Export Data windows



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THANK YOU FOR YOUR ATTENTION