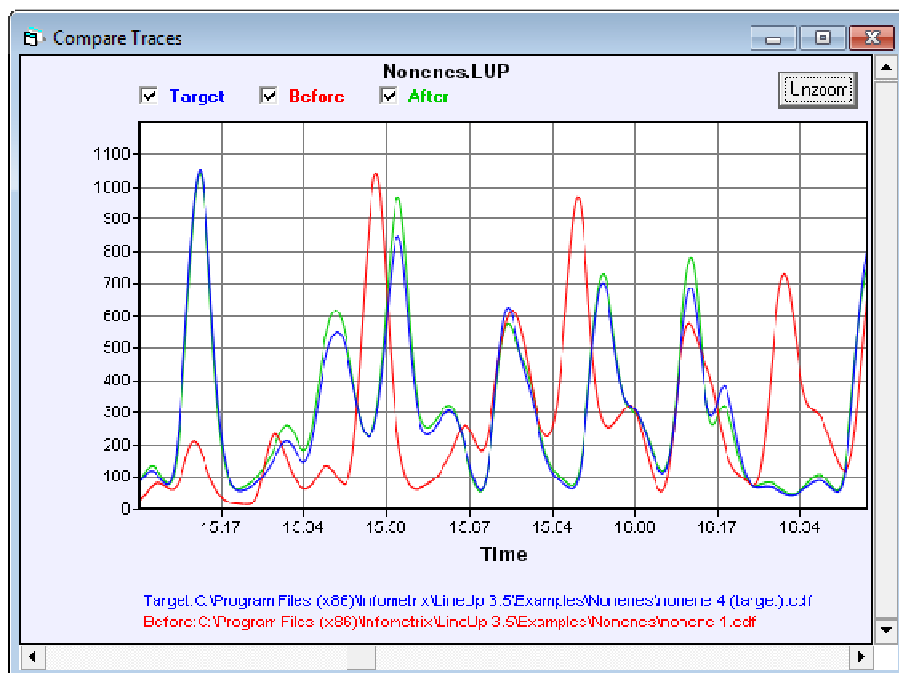


# InfoMetrix®

## LineUp™ version 3.5 Product Description and Specifications

## Chromatographic Data Alignment Software

As analyses move toward a more routine quality control or process environment, maintenance of retention time reproducibility in chromatography becomes a challenge. Recent changes to chromatographic hardware alleviate the problem to some extent, but many situations remain where a software approach is mandated. Some software alignment methods try to solve the problem by using specified marker peaks to adjust the retention time of intervening peaks. This “rubber band” approach works well if ubiquitous native peaks or internal standards are present. Lack of qualified marker peaks or changes in peak shape due to overloading can reduce the reliability of this approach.



LineUp software is a tool for adjusting retention times that does not require markers nor any other prior information. Using a multivariate correlation method, LineUp will adjust a chromatogram's retention axis to more closely resemble that of a target chromatogram.

LineUp can be run manually, but is also designed to run invisibly. The user needs only to specify the alignment standard and place a call to LineUp in the chromatographic software. When LineUp has finished, it writes a new, aligned file, in the same format of the input data.

LineUp works with Agilent GCs spanning the 5890, 6850, 6890 and 7890 models; ChemStation macros to facilitate the processing are

included in the package. LineUp can also process AIA files exported from any single-channel chromatography system. Extra tools are provided for automated processing of data from the EZChrom Elite™ platform, even retaining aligned chromatograms in the Elite binary file. Files in the Thermo GRAMS \*.SPC format can be handled by LineUp as well, benefitting Raman and NMR users.

With LineUp, automated alignment can be incorporated into any company site without requiring specialized training. Chromatograms from different sites can be aligned without requiring that instruments be set up in any particular way ahead of time, as is required by pressure modulation systems.

### LINEUP SPECIFICATIONS:

Windows 2000, XP, Vista, 7 – 512 MB+ RAM

### DATA FILE FORMATS SUPPORTED

Agilent 5890, 6850, 6890, 7890 (\*.CH) ChemStation format  
American Instrument Association (AIA; \*.CDF) format  
Thermo GRAMS (\*.SPC) spectral data format  
Infometrix ASCII

### REQUIREMENTS FOR AUTOMATING ALIGNMENT

ChromPerfect by Justice Laboratories  
ChemStation System Version A.06 or later, 16- and 32-bit  
EZChrom Elite™ System Version 3.1.4 or later,  
Version 3.3.1 or 3.3.2 for integration into Elite or Enterprise

Instructions included for integration with Agilent, Thermo, PerkinElmer, Siemens and Waters software. © 2013