



Source apportionment services

Thank you for choosing Datalystica.

CONSIDERATIONS

The following document lists all services that can be purchased by the company Datalystica Ltd including a brief description of the technical approach. The service is mainly focused on the application of the PMF algorithm on ambient AMS or ACM data. The data must be already processed and calibrated based on the instrument software and the data with its corresponding error must be accurate, reliable and ready to be used within PMF. Moreover, external data should be provided as well, to improve the overall quality of the PMF solution. Datalystica currently charges a net price of 90 USD an hour.

Fill out the service request form and send it back to support@datalystica.com to receive a quote from us.

Customer Contact Details	
First name:	Last name:
Institution:	Address:
Email address:	
Phone number:	

Service(s) interested in:

- (un) constrained PMF.** Quantification of local and regional sources (e.g. HOA, BBOA, CCOA, COA, MO-OOA and LO-OOA and other possible relevant local sources). The analysis involves (un)constrained PMF runs with the *a*-value approach or pulling equations and considers mathematical (i.e. residual analysis over profiles and time) as well as environmental aspects (i.e. correlation to proxies or tracers).
- rolling PMF.** Consideration of temporal changes of the factor profiles with the rolling technique.
- C-value approach.** Application of PMF on combined datasets (e.g. ACSM and Xact data) with the C-value approach.
- uncertainty analysis.** Estimation of the statistical and rotational uncertainty performing bootstrap analysis and the Monte Carlo method on rotational tools, respectively.
- trajectory analysis.** Spatial source distribution using back-trajectory analysis.
- offline data analysis.** Combination of data from multiple chemical analyses e.g.: main ions determined by IC, PAHs by GC-MS, EC/BC, hydrocarbons, hopanes, cellulose, carbohydrates, cellulose/lignin combustion tracers by IC PAD, PM by gravimetry, etc.).
- size-resolved PMF.** Possibility of size-resolved PMF (e.g. PM₁ vs PM_{2.5} vs PM₁₀)
- literature factor/tracer ratio based.** For example, determination of BBOA, BBOC, or Biomass burning PM from levoglucosan or BC wood burning including an accurate error estimate.

Dataset Details	
Location:	Instrument/data type:
Length of dataset:	
Expected factors to be modeled (please also indicate if you know of reference profiles for primary sources if instruments other than ACSM/AMS):	
External data availability:	
Anything else we should know/be aware of:	