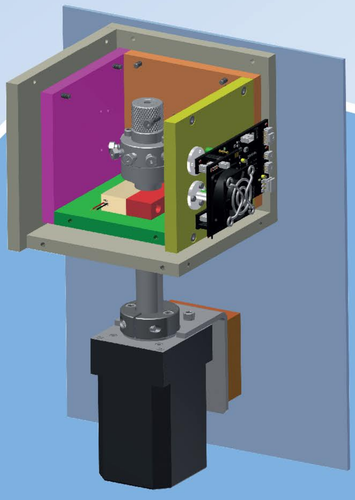
IPA/BC-MONITOR: NOVEL INTEGRATED SYSTEM FOR REAL-TIME AUTOMATIC MEASUREMENTS OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) AND BLACK CARBON (BC) IN URBAN AMBIENT AIR

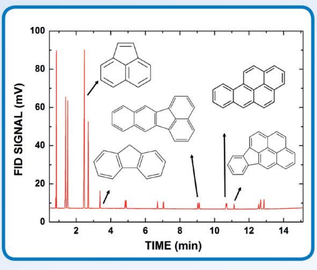
Polycyclic Aromatic Hydrocarbons (PAHs, IPA in Italian) and **Black Carbon** (BC) are two key specific chemical components of **atmospheric particulate matter** (PM) from combustion sources (e.g. traffic, residential heating) and exerting relevant impacts on human health and on global climate.

Employment of micro **electro-mechanical systems (MEMs)** and other micro-components for converting bench instruments (gas chromatographic systems) into miniaturized automatic detectors.

Automatic, transportable sensors for high-time resolution measurements of priority pollutants (PAHs) and climate forcers (BC), optimal for **monitoring in complex urban environments**.

Smart data management system of real-time data in readable formats for citizens and administrators as a support for the development of joint mitigation strategies ("**win-win**") for air pollution and global warming.





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The IPA/BC-Monitor Project was supported by the Emilia-Romagna Region (POR-FESR 2014-2020)

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