Continuous Monitoring of Polycyclic Aromatic Hydrocarbons using Automatic Thermal Desorption-Gas Chromatography

*PAH monitoring at the core of Chromatotec’s R&D strategy*

**Houston, February, 19th 2016** - Polycyclic Aromatic Hydrocarbons (PAHs) are a group of over 100 different chemicals that are known to be formed typically during incomplete combustion of organic matter at high temperature. Their major sources in the atmosphere include industrial processes, vehicle exhausts, waste incinerations, and domestic heating emissions. Due to their carcinogenic/mutagenic effects, 16 PAHs are currently listed as priority air pollutants.

Actual analytical methods dedicated to monitor PAHs require multistep sampling preparations and are not suited for continuous monitoring. Automatic Thermal Desorption-Gas chromatography equipped with flame ionization detector is the standard method for the monitoring of volatile and semi-volatile hydrocarbons (MCERTs 2012). This technique allows for identifying and quantifying continuously hydrocarbons from ethane to naphthalene.

Chromatotec has developed a new and simple method for sampling and determination of PAHs in gas and solid phase in air by using thermal desorption technique followed by gas chromatography equipped with two detectors: a flame ionization detector and a Mass spectrometer. With cycle times of 1 hour, the system is perfectly suited for the continuous monitoring of PAHs from ppq to ppb levels, especially for industrial process characterization and optimization.

Chromatotec will present in details its approach for PAH monitoring in a conference during Pittcon 2016.

**About Chromatotec®**

For 40 years, Chromatotec®, alliance of the expertise of three companies, Chromato-Sud, airmotec, Medor, has been specialized in the development, manufacturing and sales of online gas analysers by chromatography, exclusively made in France.

With offices in China and USA, the group is historically based in Gironde (South-West of France) since its creation.

Chromatotec® is worldwide known for its leading-edge technology. Based on gas chromatograph principle, our analyzers are focused on VOC / Sulfurs / Odor monitoring. These technologies allow to track individual compounds at ppt/ppb/ppm concentration levels.

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