

The measurement of the organic compounds from water through chromatographic methods

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Abstract The major assignment in water controlling (surface water, residual water) with micro-pollutant organic substances consists on the identification and the measurement of their concentration. The semi-volatile organic compounds form a heterogeneous group of basic pollutant substances which includes multi-ring-aromatic hydrocarbons (PAH), phtalates, halogenated hydrocarbons, halo-ethers, aromatic nitro-amines, benzidines (para-diamino-diphenyl), PCBs, pesticides, organochlorinated, triazines, phenols. The present work intends to describe the methods of identification and measurement of some hazardous substances found in surface waters and in the residual ones through the gas chromatography- mass spectrometry. The procedure applies for the measurement of the chlorinated alkanes, the aromatic compounds, the multi-ring aromatic hydrocarbons and for the phtalates in the water.

Keywords: surface waters pollution, residual waters, micro-pollutants, GC-MS method
