

Analytical Strategies for Volatile Compounds and Gases (GC4)

General objective(s)

The aim of this module is to identify and to show the main crucial points when GC is applied to monitor gases and volatile compounds. The lectures will be illustrated by specific applications (forensic applications, gaseous weapons, exposures, olfactometry and odorant volatile compounds analysis, etc.).

Content

Numerous gases and volatile compounds are responsible for intoxications and lethal accidents every year. Volatile compounds are also useful substances measured in aromatic chemistry (food and fragrances). It is essential to guarantee a precise monitoring of these substances which can be required or must be avoided according to their uses.

Approach

- Slide show
- GC-chromatograms Data (MS, FID, TCD, MS/MS)
- Sampling materials (syringes, HS vials, ...)
- Concentration materials (SPME, SPDE, ...)

Main items

Sampling and sample choice, concentration strategies, analytical strategies and quantification.

Pre-requisite or equivalent knowledge

GC1, GC2, MS1

Attention : cours donné en anglais

Lieu / Date

La Longeraie, Morges
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Enseignant

Dr Vincent Varlet

Vincent.varlet@chuv.ch

Tél. +41 795 566 293

University Center of Legal Medicine, Lausanne University Hospital