LIQUID CHROMATOGRAPHY / MASS SPECTROMETRY (LC/MS)

WATERS ACQUITY I-CLASS /XEVO TQ-S

Liquid Chromatography Mass Spectrometry (LC/MS) is an analytical chemistry laboratory technique for identification, quantitation and mass analysis of organic and anorganic materials. The system delivers the speed, excellent selectivity and sensitivity, wide dynamic range for many different applications.

ACQUIRED INFORMATION

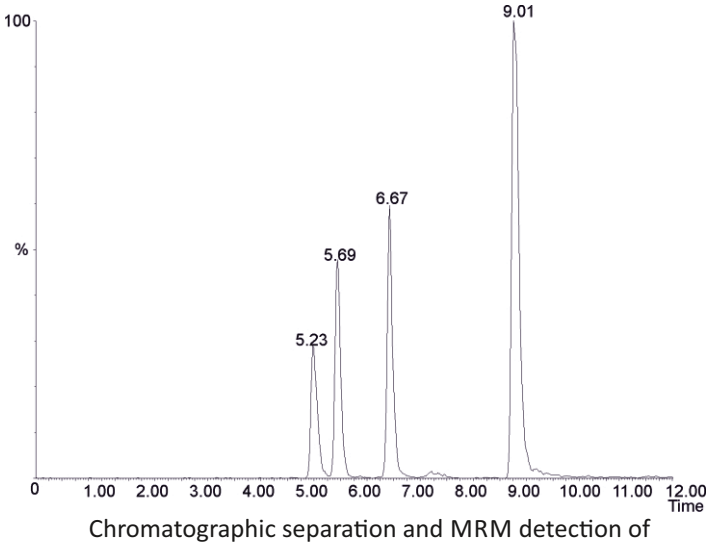
- Determination of mass to charge ratio
- Separation of compounds in complex mixtures
- Reliable identification based on retention characteristics and tandem mass data
- Automated quantification and reporting with a flag system

SAMPLE TYPES

- Liquids and solutions of Inorganic, organic, biological materials
- Pharmaceutical materials (API)
- Plant extracts
- Target compound analysis

MODES, CONDITIONS AND PRECISION

- Class leading sensitivity and robustness
- Operation in SRM mode / MRM mode provides a significant gain in sensitivity compared with acquiring full spectral data
- Accelerated method development due to Intellistart application
- Reduces complexity, increases ease of use, and ensures the correct result every time
- Maximize throughput with no compromise on quality
- Fast data-acquisition speeds and better designs of collision cell significantly shorten the minimum dwell times for each precursor/product ion pair monitored
- Automated management of the duty cycle resulting in more data points per peak, better reproducibility and higher S/N even with a high number of SRM transitions
- The widest range of ionization capabilities today



Chromatographic separation and MRM detection of the alkaloids in extracts of Chelidonium majus.

DETAILED INFORMATION ON REQUEST

REGIONAL CENTRE
OF ADVANCED TECHNOLOGIES
AND MATERIALS

WWW.RCPTM.COM RCPTM.SERVICES@UPOL.CZ

Palacký University
Olomouc