

ANALYTICAL SERVICES @ CHEMISTRY

The Department of Pure and Applied Chemistry offers a range of professional analytical services to commercial and academic customers, offering an efficient, quality service by experienced staff utilising top-of-the-range equipment.

Mass Spectrometry Service

The Mass Spectrometry facility within the Chemistry Department at the University of Strathclyde provides analysis of novel synthesised compounds, large and small molecules covering a mass range of 50-150,000Da depending on the instrument employed.

Separation techniques employed prior to mass analysis are:

Gas Chromatography

This technique is ideal for separating and identifying components in volatile and semivolatile organic compounds in complex mixtures in the gas phase.

High Performance Liquid Chromatography

Separation and identification of a variety of organic compounds, from small molecules to peptides and proteins

MALDI-TOF

Using a Matrix to help the ionisation process, Matrix Assisted Laser Desorption/Ionisation can be used in two different modes: Reflectron Mode for fast analysis of small molecules; and Linear Mode for larger molecules, typically proteins and polymers.

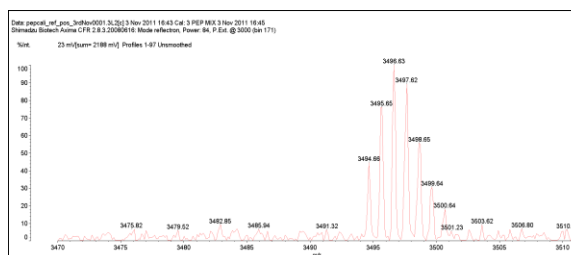
Please contact us in the first instance to discuss your requirements.

Mass Spectrometry Service

- GCMS CI/EI
- LCMS
- MALDI-TOF

Contact

Contact us for a quote or an informal discussion of your requirements: call **0141 548 2257** or email: chemistry.services@strath.ac.uk



Ionisation mode	Instrument	Technique	Mass range
Electron Ionisation (EI ion trap)	Thermo Finnigan Polaris Q	GCMS	(50-650Da)
Chemical Ionisation (CI)	Agilent 5975C	GCMS	(50-1000Da)
Electrospray Ionisation (ESI ion trap)	Thermo Finnigan LCQ DUO	Direct Infusion	(50-2000Da)
Multimode Ionisation (ESI/APCI)	Agilent 6130	Coupled with Agilent 1200LC	(50-2000Da)
Time of Flight (TOF)	Kratos Axima CFR	MALDI-TOF	(20-150,000Da)