



DEPARTMENT OF PURE & APPLIED CHEMISTRY

Mass Spectrometry Service for Commercial and Academic Customers

- Assay Development and Optimisation
- Assay Troubleshooting
- Analysis of Raw Materials
- Determination of Impurities and Degradation Products
- Biologics, Novel Synthetic Compounds, Polymers, Small Molecule (50Da – 500,000Da)
- Waste-water analysis

The MS Facility is located in a purpose-built laboratory, housing state-of-the-art mass spectrometry (MS), ultra-performance liquid chromatography (UPLC), high-performance liquid chromatography (HPLC) equipment.

Our experienced and knowledgeable technical team can offer fast turnaround analysis to meet all of your requirements.

We regularly work with industrial partners to solve their chemical queries for products/production.

Equipment Available upon Request

- Thermo Exactive Plus Orbitrap coupled to Vanquish UPLC: high resolution 4 decimal place accurate mass determination of a broad range of sample types
- Shimadzu Axima Performance MALDI-ToF: extremely versatile ToF-ToF system for analysis of high mass biologics and polymers, up to 500kDa. MS/MS capability for fragmentation analysis
- Advion Avant UPLC instrument coupled with the expression Compact Mass Spectrometer (CMS) system
- Agilent 7700 Series ICP-MS, for quantitation of contaminants in aqueous samples
- Advion Plate Express coupled with the expression Compact Mass Spectrometer (CMS) system. Direct MS analysis of spots from TLC plates
- Agilent EI/CD GCMS and Agilent 7890A GC-FID systems

Contact us today: chemistry-massspec-enquiries@strath.ac.uk