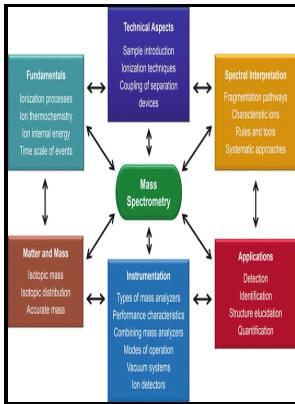


# Introduction to mass spectrometry

## Heyden - Introduction to mass spectrometry

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Mass spectrometry.Introduction to mass spectrometry

- Spectroscopy in education -- v. 3. Introduction to mass spectrometry  
Notes: Bibliography: p. 128-133.  
This edition was published in 1966



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## Introduction to Mass Spectrometry

Mass spectrometers separate compounds based on a property known as the mass-to-charge ratio: the mass of the atom divided by its charge.

## Introduction to Mass Spectrometry

Originally developed almost 100 years ago to measure elemental atomic weights and the natural abundance of specific isotopes, MS was first used in the biological sciences to trace heavy isotopes through biological systems. This leaves behind a molecular ion colored red in the following diagram. SimLipid can also annotate mass spectra with the lipid structures identified using abbreviations.

## Introduction to Mass Spectrometry

The ions are detected, usually by a quantitative method such as a Faraday collector. Proteomics is the study of all proteins in a biological system. The first step in the mass spectrometric analysis of compounds is the production of gas phase ions of the compound, basically by electron ionization.

## Introduction to mass spectrometry

The main limitation is the number of previously identified protein sequences.

## Mass Spectrometry

Journal of Analytical Atomic Spectrometr 25:74—8.

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