## Periodic Table of Mass Spectrometry

**Sample Introduction**
- Direct
- Membrane inlet
- Headspace

**Ionization**
- Direct liquid introduction
- Thermal desorption
- Thermal ionization
- Field ionization
- Fast atom bombardment
- Laser desorption/ionization

**Sample Separation**
- Gas chromatography
- Supercritical fluid chromatography
- Liquid chromatography
- Ion chromatography

**Technique**
- GC
- SFC
- LC
- LC
- MALDI
- APGC
- APPI
- APPI
- APDLC
- MALDI
- ESI
- ESI
- MALDI
- MALDI
- MALDI
- MALDI
- ES
- ES
- SI

**Sample Mass Analysis**
- Mass spec (MS/MS)
- Mass spec
- Mass spec
- Mass spec
- Mass spec
- Mass spec
- Mass spec
- Mass spec
- Mass spec
- Mass spec

**Operational modes (MS/MS)**
- CID
- ECD
- TPC

**Data Acquisition modes**
- SIM
- ELSD
- SDL

### Volatility
- Volatile
- Semi-volatile
- Non-volatile
- Gas
- Liquid
- Solid

### Ion Mobility Separation (IMS)
- DT
- TWIG
- FAIMS
- DMA

## To download a PDF version of this poster or the full AMC report of the Periodic Table of Mass Spectrometry with links for each technique visit:
www.msperiodictable.co.uk

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**Reference**


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**Legend**

- V: Volatile
- SV: Semi-volatile
- NV: Non-volatile
- G: Gas
- L: Liquid
- S: Solid
- Org: Organic substance
- Inorg: Inorganic substance (incl. organometallic)

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**The Periodic Table of Mass Spectrometry is brought to you by the Royal Society of Chemistry's Analytical Methods Committee (AMC).**

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