

## Inductively Coupled Plasma Mass Spectrometer (ICP-MS)



ICP-MS is an analytical technique used for elemental determinations at trace level. It offers better sensitivity than other elemental analysis techniques such as ICP Atomic Emission Spectroscopy (ICP-AES) and ICP Optical Emission Spectrometry (ICP-OES).

The ICPMS is applicable to following research areas:

- 1) Geological - measure the trace elements / isotopes concentrations in determining origins of rocks.
- 2) Environmental – measure the trace elements in dirty/ treated water, dust in the air (trap in air filter) and soil samples
- 3) Biological and clinical - measure the trace elements in urine or blood samples.
- 4) Agricultural - trace metals in soils, fertilizers & feed.

It also has the capabilities to perform quantification of elemental isotopic concentration and ratios, as well as precise speciation capabilities when used in conjunction with HPLC.

**For enquiries, please contact the staff in-charge: Ms Maria Chong**

**Phone: 6790-4851 | Email: [MASCHONG@ntu.edu.sg](mailto:MASCHONG@ntu.edu.sg)**

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