

GCMS FULL SCAN



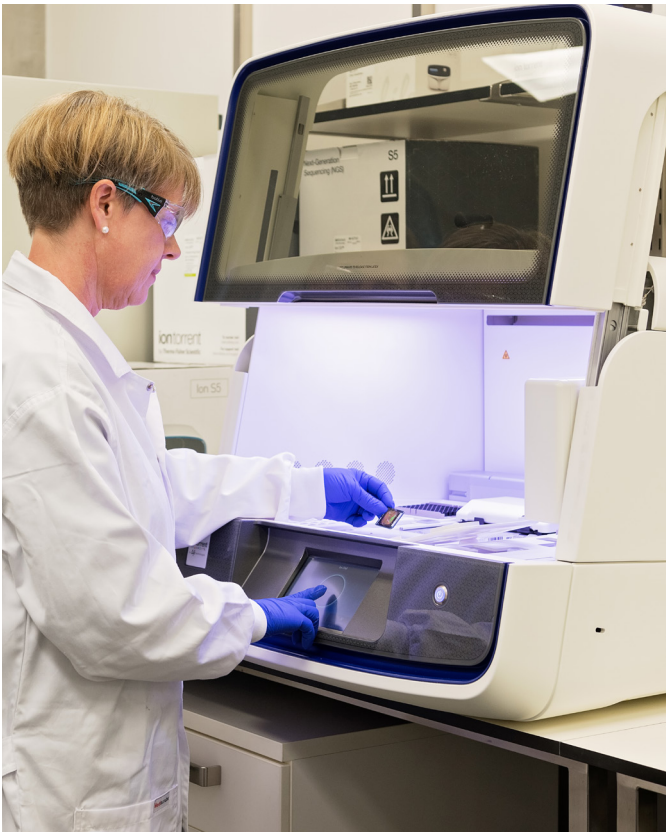
The Australian Water Quality Centre (AWQC) is dedicated to ensuring and responding to the public health requirements relating to the provision of water and wastewater services for communities in Australia and across the world.

Used for screening water samples.

GCMS Full Scan is used to screen the presence of volatile and semi-volatile organic compounds in water. It is best used when there is a suspected contamination and if the contamination is known. This is because the identification is based on a mass spectrum library search on all peaks detected. If a spectrum match is found it is used to identify the peak, if not, peaks cannot be identified. Note not all organic compounds can be extracted using the following methods and or detected by GCMS. The upside is it is a quick screening process and is best suited for the following applications.

— Specialist water services

Ensuring public health



Applications

The method is suited for most types of source and treated (not waste or trade waste) waters where:

- New water pipes are installed
- Environmental contamination is suspected organic solvent spillage into waterways
- Confirmation of semi-volatile and volatile organic compound in water
- New water tanks are installed
- Maintenance of pipes or water tanks
- Unpleasant taste and odour in drinking water.

Note where possible it is best to test the source water that has not come in contact with the possible point of contamination and the water which has been in contact with ie. pipe, tank or spillage.

Extraction Methods

The following extraction methods are available:

- Hexane for non-polar semi-volatile organic compounds
- DCM for polar and non-polar semi-volatile organic compounds
- Purge and trap volatile organic compounds.

Sampling Requirements:

- Amber glass bottles only
- Minimum volume 200ml
- Transport & store at 4°C
- No air gap

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