EQUIPMENT CARD

PLAPIQUI



#5615

Gas Chromatograph-Mass Spectrometry/Mass Spectrometry Triple Quadrupole (GC-MS/MS) TQ-8040 SHIMADZU

DESCRIPTION

Gas chromatograph coupled to a triple quadrupole mass spectrometer. The second quadrupole acts as a collision cell, which allows a selected precursor ion to be fragmented and traces to be quantified with very high selectivity in complex matrices.

MAIN FEATURES

- Analyzer: triple quadrupole with OFF-AXIS ion optics and UFsweeper collision cell
- Acquisition modes: full scan, SIM, MRM, product ion scan, precursor ion scan and simultaneous Scan/MRM
- MRM speed: up to 800 transitions per second
- Scan speed: up to 20,000 u/s with the ASSP protocol
- Method capacity: up to 32,768 MRM transitions in a single run, with more than 400 simultaneous compounds
- Smart MRM: automatic optimization of transitions, collision energies, dwell and loop times
- Databases: Smart Database Series (pesticides, environmental, forensic) with retention indices and AART function
- Autosampler: AOC-20 with capacity for up to 150 vials

MAIN APPLICATIONS

- Determination of pesticides and organic pollutants at trace levels
- Environmental analytical services on water, soil and sediments
- Quantification of organic compounds in complex matrices with matrix effect
- Simultaneous identification and quantification of minor reaction products
- Characterization of volatile compound profiles in natural products

ASSOCIATED CAPABILITIES AND SERVICE

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