Media Product Backgrounder

Agilent 6475 Triple Quadrupole LC/MS System

Key Uses:

- High performance quantitative analysis – for routine applications requiring a sensitive yet rugged instrument
- Commercial lab customers: Analyze thousands of samples with peace of mind
- Research lab customers: Confidently detect novel and emerging analytes

Key Features:

- Early Maintenance Feedback
- Scheduled Autotune and Checktune
- "iReflex" – short for intelligent reflex
- VacShield
- SWARM Autotune

Overview

The 6475 triple quadrupole LC/MS system is the next evolution for sensitive, rugged, robust mass spectrometers for routine quantitative analysis. Representing the "Head and the Heart" of your analytical lab - proven hardware is enhanced by instrument intelligence and smart technology, which helps maintain peak instrument performance, reduces downtime, and dramatically improves sample throughput and lab productivity.

Sophisticated, yet easy-to-use onboard intelligence provides immediate validation of results to improve speed of analysis and predicts when maintenance is needed to reduce downtime. Time-saving automation software lets you schedule calibration in advance so the 6475 LC/TQ is ready to run samples when you walk in the lab. And proven, ultra-rugged quadrupole technology ensures instrument reliability for peace of mind and lower cost-of-ownership.

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Agilent 6475 Triple Quadrupole LC/MS Key Features Explained

Early Maintenance Feedback – a screen that reports the most necessary instrument vitals and reads like a battery bar or red/green dashboard. This allows users to anticipate maintenance events and avoid unexpected downtime.

Scheduled Autotune and Checktune – automate when the instrument tunes or when it checks its own status.

iReflex – short for intelligent reflex. Intelligently "reflexes" to specific analysis conditions.

VacShield – carry out routine maintenance quickly and easily.

SWARM Autotune – utilizes an artificial intelligence algorithm called particle swarm automation. SWARM self-learns by varying many parameters at a time by making use of the high precision and speed of the electronics. Autotuning using SWARM catches the interdependencies between parameters to provide the best overall system performance. Traditional tuning methods adjust parameters one variable at a time, sometimes producing non-optimal results with high variability.

Key Benefits of the Agilent 6475 Triple Quadrupole LC/MS to Laboratory Operators and Managers

Early Maintenance Feedback

This allows users to quickly check and monitor the instrument's status. Drastically helps to anticipate maintenance events and avoid unexpected downtime.

Scheduled Autotune and Checktune

The instrument can be tuned and ready before users enter the lab and start using the instrument. Additionally, the system periodically reports on its own tuning/calibration status (checktune) throughout the day.

iReflex

Intelligently "reflexes" to specific analysis conditions such as if a sample is out of tolerance, sample carry over is detected, or fun a fast-screening high-throughput workflows.

VacShield

The most common point of maintenance is the entrance of the mass spectrometer. With VacShield, this region can be removed without having to vent the instrument. This dramatically reduces routine maintenance from 6-12 hours to about 30 minutes.

SWARM Autotune

SWARM autotune seeks to provide the absolute best system parameters without user intervention and high speed. This style of instrument tuning results in consistently high analytical sensitivity, injection-to-injection robustness, and reduced instrument-to-instrument variability.

For more information visit Agilent's newsroom or contact Naomi Goumillout, Director, Business Public Relations (naomi.goumillout@agilent.com)

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