**GERSTEL**

MAKING LABS WORK

| Simple User Interface | Unmatched Flexibility | Extensive Context-Sensitive Help | Advanced Sequence Scheduling and Overlapping | Comprehensive Integration | Maximum Security |

# MAESTRO Software

A flexible and robust automation platform for sample preparation and sample introduction

Sample Prep by Mouse Click

# MAESTRO Software
## Sample Prep by Mouse Click

# Quick & Easy Method Development

## Simple User Interface
### Intuitive design and graphics enable proficiency in minutes



- Effortless creation of custom sample preparation methods through the PrepBuilder function

- Easy to use graphical interface for development of sample preparation sequences

- Easy to edit and optimize sequences and parameters

- Copy and paste steps for fast and simple method development

## Unmatched Flexibility
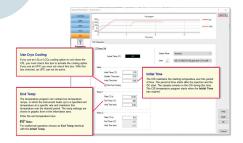### Versatile platform to customize sample preparation and edit active sequences

- Freedom to add samples at any point in the analysis sequence, accommodating last minute and high priority additions without having to stop a run

- Create custom sequences as part of, or independently of, an injection method

- Flexible options for the tasks performed as part of an injection method to fit the user's needs (e.g. SPME on-fiber derivatization before OR after sample extraction, etc.)

- Automated integration of new accessories and modules



## Extensive Online and Context-Sensitive Help
### Guidance for successful and simplified method development and optimization



- Simple method creation and editing with extensive descriptions of parameters and special help functions by mouse-click

- In depth information through pop-ups and the integrated user manual, ensuring successful method development and optimization
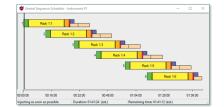
# MAESTRO Software
## Sample Prep by Mouse Click

# Simplified Analysis Setup

## Advanced Sequence Scheduling and Overlapping
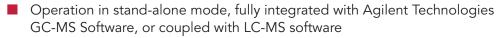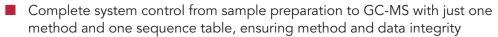### Maximize sample throughput and lab productivity



- Simple planning of analysis with graphical overview of sample preparation steps via the Sequence Scheduler

- Quickly view the estimated total analysis time for a batch of samples

- Easy optimization of sample preparation and analysis times for maximum throughput

- Unrestricted overlapping of custom sample preparation sequences

- Multi-sample PrepAhead for techniques like SPME and Static Headspace

## Comprehensive Integration
### Simple system operation with one method, one sequence table, and one interface

- Operation in stand-alone mode, fully integrated with Agilent Technologies GC-MS Software, or coupled with LC-MS software

- Complete system control from sample preparation to GC-MS with just one method and one sequence table, ensuring method and data integrity

- Creation of sample preparation sequences in the same integrated platform so that instrument parameters are accessible for optimal overlapping and sequence scheduling

- Compatible with any acquisition software that is activated by external run signal



## Maximum Reliability and Security
### Catch errors before they occur and protect system components



- Validity checks at various points of method creation to catch errors before the run starts

- Automated e-mail notification of system deviations ensures that problems are quickly resolved

- Log files and service log file functions allow the user to easily track and troubleshoot issues

- Maintenance counters provide reminders to change consumable parts or perform regular maintenance tasks

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## Integrated Software Tools
### Simplify Complex Tasks

- **Calibration Standard Wizard:** Create sequences for automated calibration standard preparation
- **Accurate ADD & Calculate ADD Wizard:** Accurate volume dispensing for single and multiple additions
- **Large Volume Injection (LVI) Calculator:** Determines the optimal injection speed for LVI based on solvent, CIS temperature, and carrier gas flow and automatically updates method with results
- **MAESTRO Sandwich Injection:** Tools to help build sandwich injections (GC or LC) with solvent and sample in user-defined order

### Over 30
sample introduction and preparation techniques!

# Supported Techniques



## Sample Introduction

- Liquid Injection
- Cold On-Column Injection
- Large Volume Injection

- Headspace Injection
- Multiple Headspace Injections
- SPME
- SPME Arrow
- Thermal Desorption
  - Sorbent packed tubes
  - Direct thermal extraction
  - Multi-desorption mode
  - Twister®
  - TF-SPME
  - Liquid matrices in μ-vials
  - Multiple SPME injections
- Pyrolysis
  - Pulsed, Ramped, EGA, and Smart Ramped
- Dynamic Headspace (DHS)
  - Full Evaporation Dynamic Headspace
  - Multi-Volatiles Method
- Dynamic Headspace Large

## Sample Preparation

- Dilution
- Standard Addition
- Calibration Curve Preparation
- Bar Code Reading
- Filtration
- Evaporation
- Weighing
- Mixing
- Centrifugation
- Multiple SPE Options
- Sonication

## Additional Modules for Advanced Problem-Solving

- Olfactory Detection Port
- Preparative Fraction Collector
- Cryo Trap System
- Selectable 1D/2D GC for Heartcutting

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