

Agilent MSD Security ChemStation

Feature Overview of Revision A.02.00

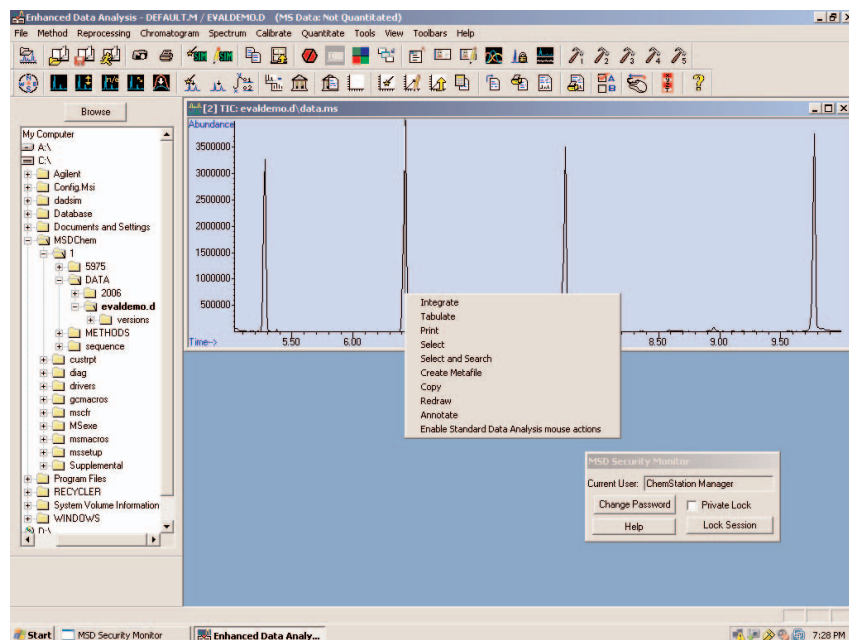
Enjoy greater flexibility with GC/MS compliance software

Throughout the pharmaceutical industry GC/MS has become a highly important analysis technique. In particular, the determination of residual solvents requires extremely sensitive analytical methods and instrumentation that at the same time are capable of detecting unknown impurities. With the introduction of the Agilent 5975B inert MSD, Agilent has made a major step forward in reliable performance, leveraging new and smarter hardware and software technologies.

The Agilent MSD Security ChemStation fulfills completely all requirements demanded by FDA's Code of Federal Regulations 21, Part 11. The latest revision, version A.02.00, fully supports the Agilent 5975B inert MSD and a wide range of sampling systems. This instrument's performance electronics provides rapid data acquisition. Simultaneous SIM/Scan data acquisition yields fast and specific results.

New user interface for easy data retrieval and analysis

In parallel with the improved instrument features, the focus of revision A.02.00 has been on facilitating data access and ease-of-use. The improved graphical user interface with navigation bar and right-click mouse functions allows users to retrieve, review and analyze their data easily.



MSD Security ChemStation – improved user interface with navigation bar and right-click mouse functions

By including the Reprocessing tab in the Data Analysis view, integration and reprocessing can be performed from one location, saving analysts significant time. Integrating right-click mouse functions in the Sequence Table facilitates sequence acquisition.

To display data and calculations from selected reports, the Microsoft Excel-based custom report feature developed for the Agilent MSD Productivity ChemStation is now integrated in the compliance version of the software, giving users full flexibility to choose the content and design they need.



Agilent Technologies

Improved compliance support

Daily work in the pharmaceutical laboratory is a constant struggle between complying with FDA requirements and fast and easy use of the software application. Entering an electronic signature (for methods and data, separately) and a comment has proven to be very tedious. To reduce the number of e-Signatures required, it is now possible to set all relevant integration events, sign once with an e-Signature and comment for the method, and enter the signature only for the data file of the area percent report. Batch-wise import of data is now possible and users need to sign only once for this action.

To complete the compliance feature-set, a performance report is now available, comprising all relevant information for system suitability such as peak width at half height, resolution, tailing at 10% height, peak-to-peak signal-to-noise, RMS signal-to-noise and number of theoretical plates.

An Application Note, which examines each section of 21 CFR Part 11 and describes how these requirements are fulfilled by the feature set of the MSD Security ChemStation, can be ordered by quoting Agilent publication number 5989-5315EN.

Additional functions

- Improved QEdit functionality to generate custom and quantitation reports from QEdit
- Electronic methods (e-Methods) – the capability to export an MSD Security ChemStation method into an e-Method and import an e-Method into an MSD Security ChemStation method enables easy sharing and distribution of methods between different MSDs
- Peak purity calculation and reporting for better quantitative results

Training and qualification services

Agilent offers a full range of training and qualification services including installation, familiarization, and operational qualification to ensure that the Agilent MSD Security ChemStation is installed and functioning correctly. A certificate of system validation is shipped with the product.

Specifications at a glance*

Supported instruments:	5973A/N/inert, 5975 MSD; 6890N/Plus, 6890, 6850 GC; 7683 family autosamplers; G2612 controller, G1888A/B, G1290B headspace samplers
PC requirements:	Pentium IV, 2.8 GHz, 512 MB RAM, 80 GB hard disk storage, Win 2000 Professional, SP4 or Win XP Professional, SP2
Supported spectral libraries:	G1033A NIST05 MS Library (NIST search algorithm not supported), G1041A NIST MS Library Upgrade, G1035B Wiley Library, G1036A NIST Chemical Structures Database
Supported GC detectors:	Thermal Conductivity detector (TCD), Flame Ionization detector (FID), Electron Capture detector (ECD), Micro-ECD detector (μ -ECD), Flame Photometry detector (FPD), Nitrogen Phosphorus detector (NPD)
Supported inlets:	Split/Splitless (electronic pressure/flow control only), Temperature-programmable cool on-column (electronic pressure/flow control only), Programmable temperature vaporization (electronic pressure/flow control only), Volatiles interface (electronic pressure/flow control only)

* Full specifications are available in a separate document, publication number 5989-3015EN

www.agilent.com/chem/gcms

© Copyright 2006 Agilent Technologies
Published August 1, 2006
Publication Number 5989-5380EN



Agilent Technologies