Agilent 5975C Series GC/MSD

Performance, productivity, and confidence

The Measure of Confidence

Agilent Technologies

The New Agilent 5975C Series GC/MSD

Proven performance, superior productivity – and maximum confidence in your results

Welcome to the next generation of the industry-proven Agilent 5975C Series GC/MSD – the most popular GC/MS of all time. The Agilent 5975C Series GC/MSD, with Triple-Axis HED-EM Detector, combines innovative design features to boost your lab's productivity and advanced analytical capabilities – to help you achieve better results faster. Perfectly complemented by the robust capabilities of the 7890A GC, the platform delivers all of the elements for perfect chemistry: superior performance, unmatched reliability, greater productivity, and enhanced ease-of-use.

The Agilent 5975C Series GC/MSD is built on a solid foundation of leadership, reliability, and performance.

Maximum uptime

Keep your lab up and running at peak performance, thanks to thoughtful, real-world engineering. Faster, easier routine upkeep and system intelligence features enable predictive support, enhanced self-maintenance, and powerful remote diagnostics.

Higher throughput

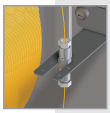
- Process more samples in less time with comprehensive automation features and faster separations
- Get maximum information from every run using advanced analysis capabilities
- Experience rapid identification and quantification enabled by automated spectral deconvolution software

Application proven

Trust in the heritage of world-proven applications. The 5975C GC/MSD has been successfully applied to more applications than any other GC/MS in the world. Agilent's application notes cover volatile to semi-volatile analytes, in matrices ranging from simple air and drinking water to the most complex food and soil/sludge. Our full portfolio of GC/MS options and accessories ensures the best configurations to meet all of your application requirements.[1]

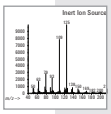
[1] 5989-6351EN: Agilent *5975C Series GC/MSD System Data Sheet*

Technology available only from the global leader in GC/MS



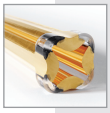
Capillary Flow Technology

Agilent Capillary Flow Technology promotes easy oven connections for a wide range of separation configurations – including backflush operations. ***Page 5***



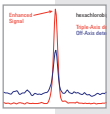
Inert ion source

Now programmable up to 350° C, our proprietary inert ion source delivers enhanced response for active compounds and late-eluters. ***Page 6***



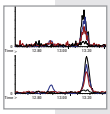
Proprietary gold quartz quadrupole

With the only quadrupole operating temperatures up to 200° C, the 5975C GC/MSD prevents contamination by high boiling compounds and delivers long lasting tune and calibration. ***Page 6***



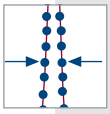
High S/N Triple-Axis Detector

The next generation of off-axis detection minimizes noise and maximizes signal for the lowest detection limits. ***Page 7***



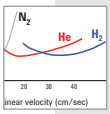
Trace Ion Detection technology

This unique noise reduction algorithm delivers the lowest limits of detection (LOD) and improved spectral matches. ***Page 7***



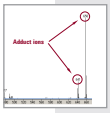
Synchronous SIM/Scan mode

Selectively monitor for ions of interest at high sensitivity SIM while simultaneously acquiring spectra at scan rates up to 12,500 u/sec. ***Page 8***



Proven H_2 carrier gas for MS

Agilent is the first and only instrument manufacturer to certify the performance and safety of hydrogen as a carrier gas for MS. ***Page 8***

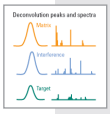


Exceptionally stable and sensitive PCI and NCI

Integrated control of CI gases permits alternating between PCI and NCI acquisitions. Ammonia reagent gas reduces maintenance and delivers excellent sensitivity in both positive and negative modes. ***Page 9***

GC/MS software

Maximize your productivity with advanced instrument control and simplified configuration methods, plus high productivity data analysis, reporting and customization. ***Page 10***



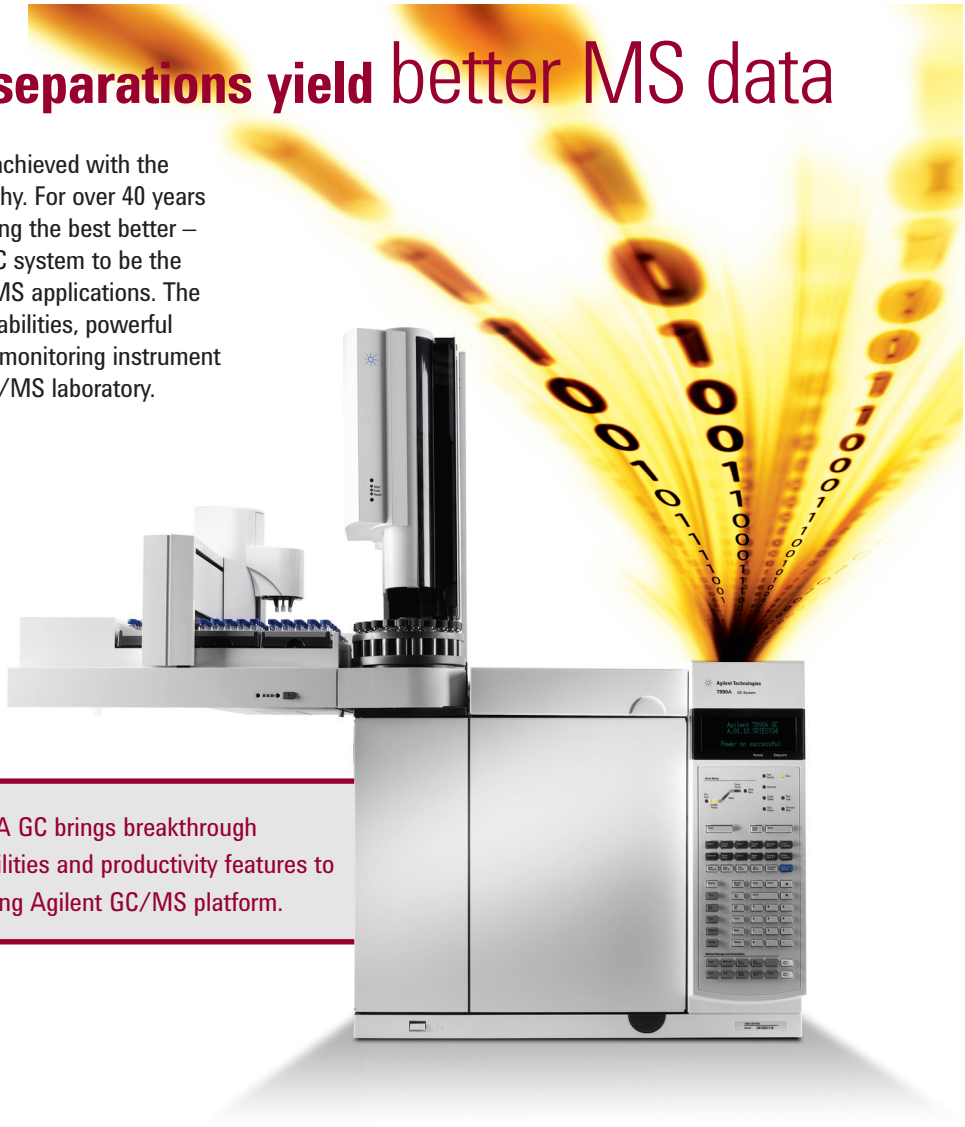
Deconvolution Reporting Software

Together with Retention Time Locked databases, DRS significantly reduces post-run analysis time. ***Page 10***

To learn more about the Agilent 5975C Series GC/MSD, visit **www.agilent.com/chem/5975C**

Better 7890A GC separations yield better MS data

The best MS performance can only be achieved with the support of high efficiency chromatography. For over 40 years Agilent innovation has focused on making the best better – which is why you will find the 7890A GC system to be the perfect complement for all of your GC/MS applications. The 7890A's advanced chromatographic capabilities, powerful productivity features, and real-time self-monitoring instrument intelligence deliver benefits to every GC/MS laboratory.



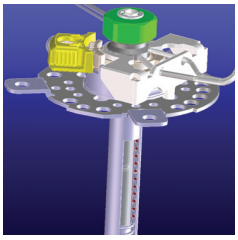
The Agilent 7890A GC brings breakthrough separation capabilities and productivity features to the industry-leading Agilent GC/MS platform.

Powerful performance for superior productivity

Agilent's leadership in gas chromatography has been established by three consistent benefits – performance, productivity and reliability. Engineered to work together to ensure the best GC solution for every type of GC/MS application, key components include:

- Fifth generation Electronic Pneumatic Control (EPC)
- Accurate temperature control (oven, inlet, MS transfer line)
- Accurate, precise injection systems

A better GC will always generate better MS results for your quantitative and qualitative analyses.



Increased flexibility with Multimode Inlet (MMI)

Agilent's unique Multimode Inlet (MMI) provides new options for lower detection limits and improvement of system performance for thermally unstable analytes from the advanced functionality of:

- Cold splitless injection
- Large volume injection

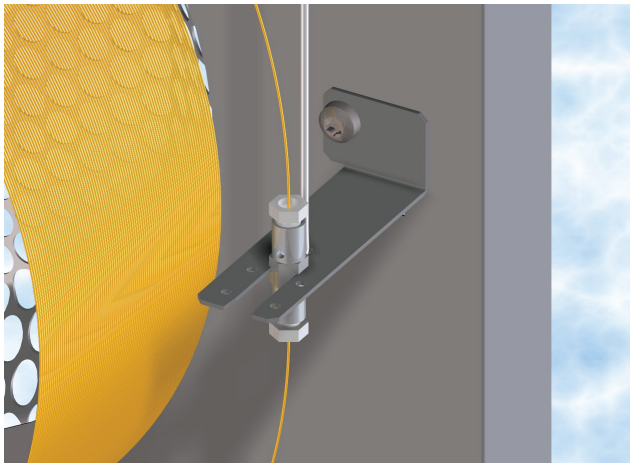
Consistency across systems with Retention Time Locking (RTL)

Cutting the front of a column or even replacing the column does not have to result in a change of retention time with Agilent RTL. The 7890A EPC and digital electronics set a new benchmark for RTL method transfer and repeatability.

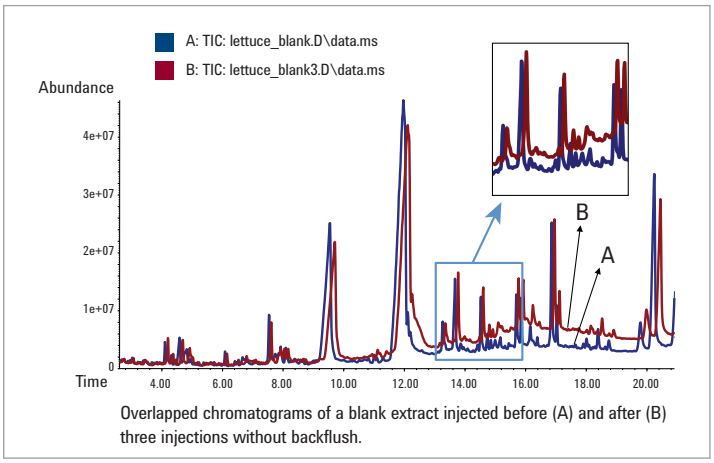
- Retention times can be quickly readjusted to have consistency through the life of the method
- RTL methods can be easily transferred to other instruments or shared with other labs for consistency across all GC/MSD systems
- RTL databases are available for a broad range of compounds across industries

Easy oven connections with Capillary Flow Technology

Agilent Capillary Flow devices provide leak-free, in-oven connections for a wide range of separation configurations. These inert, low-mass, low dead-volume devices are easy to set up for detector splitting, heart-cutting, and backflush operations.

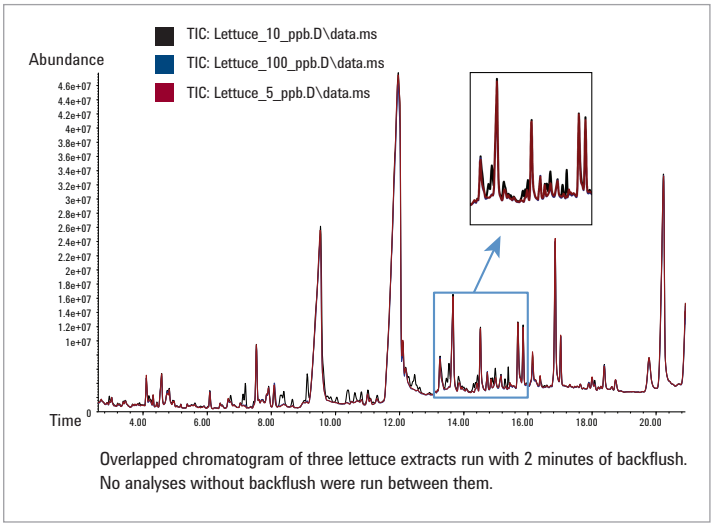


The Purged Ultimate Union *has ultra-low dead-volume, minimal chemical activity, and low thermal mass.*



Overlapped chromatograms of a blank extract injected before (A) and after (B) three injections without backflush.

Without backflush*, retention time begins to shift and baseline rises after only three samples of lettuce extract.*



Overlapped chromatogram of three lettuce extracts run with 2 minutes of backflush. No analyses without backflush were run between them.

With backflush*, retention time and baselines are stable, and spectral interference does not increase.*

Benefits of Capillary Flow Technology Backflush

- Reduced ion source maintenance
- Longer column life
- Stable GC retention times
- Shorter analysis cycles for higher throughput

To learn more about the Agilent 5975C Series GC/MSD, visit **www.agilent.com/chem/5975C**

Engineered for performance and productivity, **from the source to the detector**

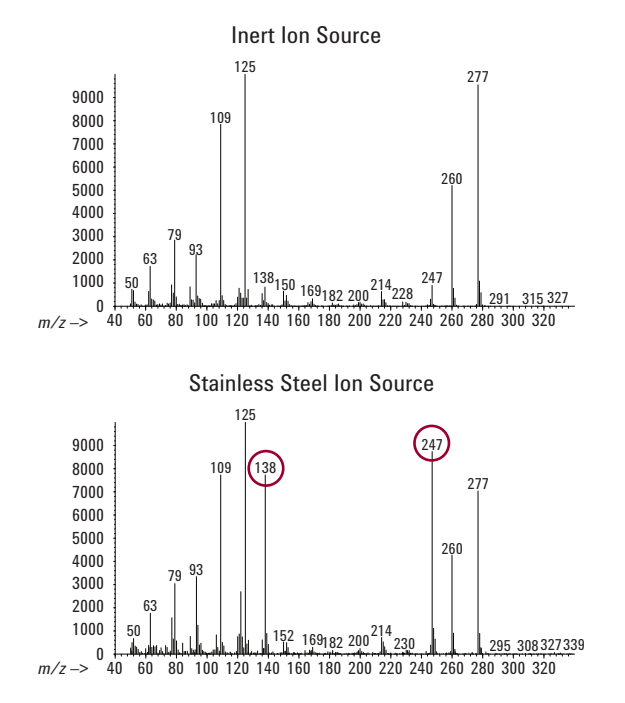
Building the world's most trusted GC/MS solutions is a process of continual improvement. With each new generation, we never lose sight of our goal – to help your lab get better results with higher confidence in the shortest possible time.

High temperature solid inert ion source boosts your system performance

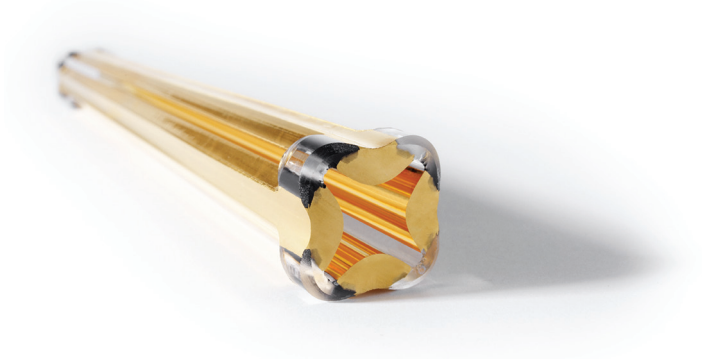
Agilent's proprietary inert ion source is now programmable up to 350° C to provide enhanced response for active compounds and late-eluters. It delivers:

- Improved peak symmetry
- Higher EI response
- Fewer degradation ions and more reliable library searches

Higher temperature also means less frequent cleaning – a nice improvement for your lab's productivity.[2]



Improved spectral integrity *– Proprietary inert source eliminates surface activity reactions, resulting in more reliable library matches. Ions of 138 u and 247 u are results of degradation.*



The gold standard in quadrupole design for maintenance-free operation

The MSD analyzer incorporates a combination of proprietary technologies to deliver superior performance and enhanced reliability.

Dimensional stability of the single piece quartz analyzer is a fundamental strength of the MSD design. Temperature changes from room temperature to 200° C do not alter the quartz dimensions, unlike metal rods. Higher analyzer temperature allows robust, maintenance-free operation – even with complex, high boiling samples.

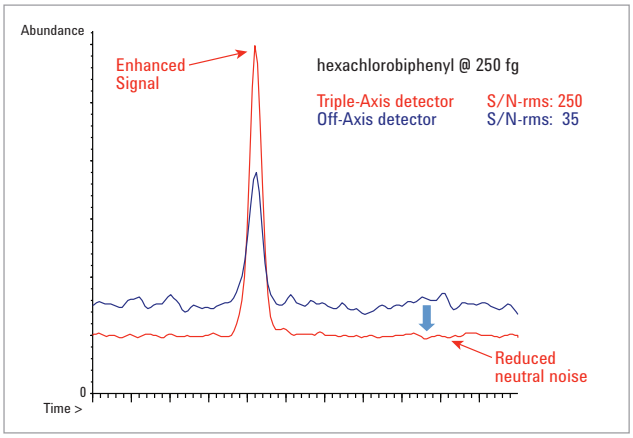
Submicron-layered gold, hyperbolic quadrupole surface eliminates field errors of round rod analyzers and delivers excellent resolution, mass axis stability and ion transmission efficiency across the full mass range, up to 1050 u. An available high mass checkout kit provides added confidence for high mass applications, for example, Polybrominated Diphenyl Ethers (PBDEs)[3].

[2] 5989-6051EN: *The 5975C Series MSDs: Guidance in Implementing High Ion Source Temperatures*

[3] 5989-3142EN: *Applying the 5975 Inert MSD to Higher Molecular Weight Polybrominated Diphenyl Ethers (PBDEs)*

Triple-Axis Detector lowers detection limits and reduces cost of operation

The fundamental goal for the detector module is always the same – collect more ions of interest and eliminate background sources of noise. To achieve these goals, the 5975C detector uses a new ion guide and shield to position a new long-life triple channel electron multiplier (EM) doubly off-axis from the analyzer exit. Our optimized ion path increases signal and eliminates noise from energetic neutrals. The result – simply the best signal-to-noise specification in the market, and the perfect complement to the inert source and proprietary hyperbolic analyzer.



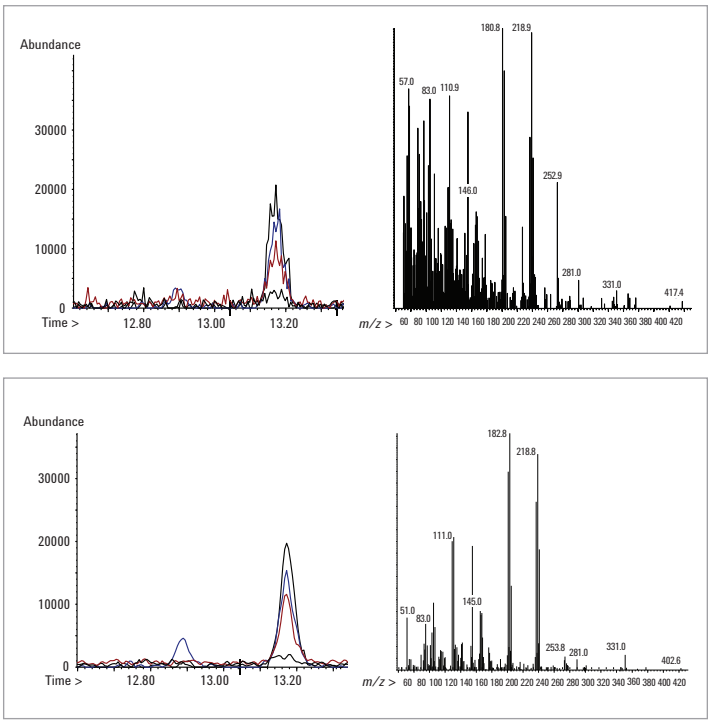
Triple-Axis Detector *increases signal and decreases noise – the ideal combination for improved detection limits.*

High sensitivity AutoTune makes it easy to optimize system performance

Take the trial and error out of optimizing operating conditions by automating the process. The 5975C system's AutoTune saves time, boosts performance and improves instrument-to-instrument consistency. The gain normalized tuning of the EM ensures consistently optimized ion count and prolongs EM life.[4]

Trace Ion Detection delivers better quantitative performance

Revolutionary Trace Ion Detection technology gives you better spectral fidelity, increasing your confidence level when doing library matching. It lets you lower Method Detection Limit (MDL), as well as your limit of quantitation (LOQ), reducing false negatives and further enhancing the performance of the inert ion source at trace levels.



Analysis of a-HCH TID off *(top)* ***and TID on*** *(bottom) – TID reduces spectral noise for better GC peak shapes and improved library searches.*

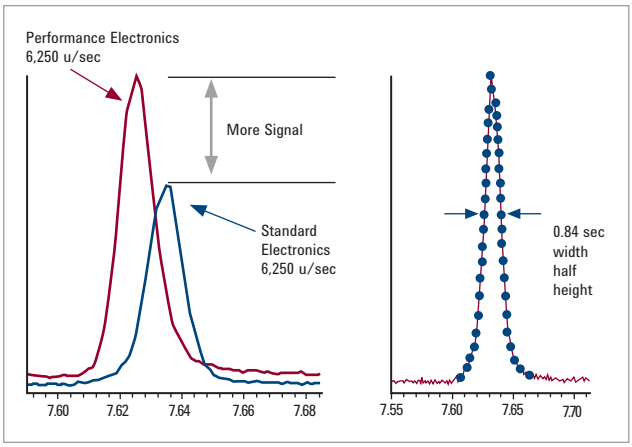
[4] 5989-7654EN: *Enhancements to Gain Normalized Instrument Tuning*

To learn more about the Agilent 5975C Series GC/MSD, visit **www.agilent.com/chem/5975C**

Powerful analytical capabilities improve results and productivity

Fast electronics enhance performance and enable synchronous SIM/Scan

The 5975C's fast electronics maximize signal transmission for fast GC/MS in full scan and Selected Ion Monitoring (SIM) modes. They also enable synchronous SIM/Scan functionality – without compromising analytical performance.[5]



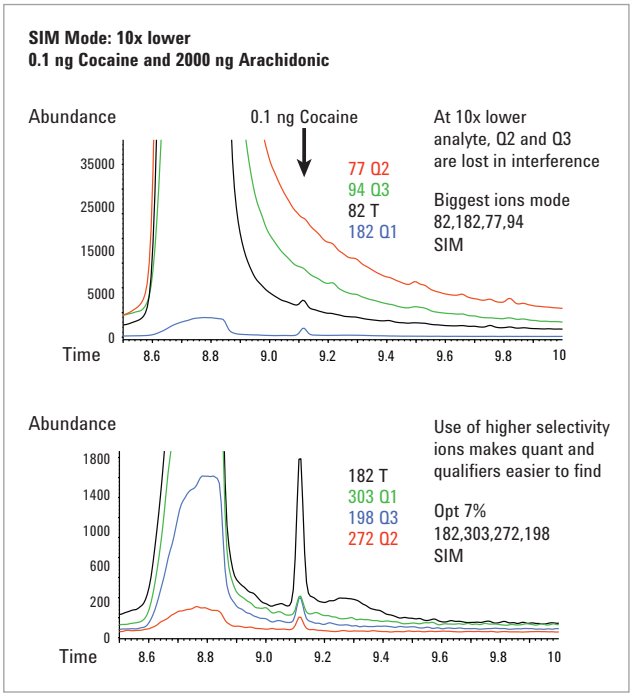
More signal, and more data points. *Total ion chromatogram of Heptachlorobiphenyl compares standard electronics (Agilent 5973 Series MSD) to new fast electronics. Both chromatograms were acquired by the same instrument at the same scan speeds (horizontal offset for clarity). High scan rates up to 12,500 u/sec allow accurate peak integration even for narrow bore capillary peaks.*

Hydrogen lowers the cost per analysis

The hydrogen signal-to-noise specification for the 5975C Series GC/MSD makes Agilent the first and only instrument manufacturer to certify the performance and safety of hydrogen as a carrier gas. In fact, hydrogen often provides faster analysis times and greater resolution than GC/MS systems operating in helium mode.

Ion optimization minimizes matrix interference

Agilent's proprietary Ion Optimization software evaluates scan files of the matrix blank and automatically selects those ions that have the least interference, for each analyte. These optimal ions can then be used in scan, SIM or SIM/Scan methods to provide the greatest selectivity *and* sensitivity for your analytes. The result – greatly improved performance for even the most challenging matrices.



Improved accuracy after ion optimization. *The most intense cocaine ions do not have adequate selectivity against the large arachidonic acid peak in the sample matrix. Our Ion Optimization software identifies a more selective set of target and qualifier ions for an accurate analysis. Note: scale difference.*

[5] 5989-3108EN: *Improving Productivity with Synchronous SIM/Scan*

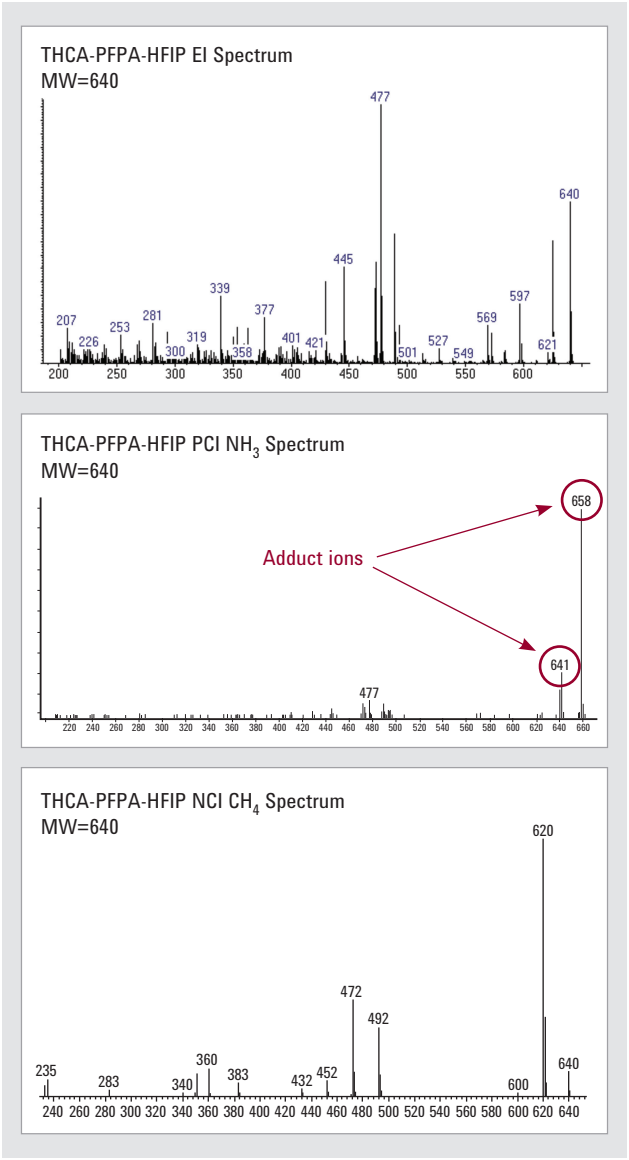
Innovations deliver ultimate flexibility

CI as easy as EI

Many users appreciate the higher selectivity (reduced interferences) and decreased fragmentation (high mass information) of Chemical Ionization (CI).

"CI is as easy as EI" with total software control of the CI reagent gases and automated tuning processes. CI AutoTune supports the three most common CI reagent gases and tunes in both PCI and ECNI modes. Our software also allows for an EI tune of the CI source for production of classical spectra without the need of switching sources.

A sample sequence can automatically acquire data in PCI mode, with two different reagent gases, and an NCI: Electron Capture Negative Ionization (ECNI) mode – also with two different gases – without user intervention. The result – a simpler and more flexible approach to CI method selection and optimization.



***Comparison of Δ1-Tetrahydrocannabinolic acid (THCA)**. The EI spectra show many fragments, but PCI and NCI show fewer. CI spectra enable easier identification of compounds by GC/MSD.*

To learn more about the Agilent 5975C Series GC/MSD, visit **www.agilent.com/chem/5975C**

GC/MS productivity software automates tasks to optimize workflow

The Agilent MSD Productivity ChemStation[6] makes using the advanced capabilities of the Agilent 5975C inert GC/MSD system easy.

Advanced instrument control

- Control of two GC/MS systems from a single PC
- Simultaneously acquired MSD and GC detector signals

Simplified configuration of methods

- Multi-instrument consistency for Retention Time Locking (RTL)
- Import LIMS sample work lists
- Guided setup of new calibration tables (AutoQuant)
- Automatic conversion of any full scan method to a high sensitivity SIM or SIM/Scan method (AutoSIM)
- Import/export of shared methods (eMethods)

High productivity data analysis

- Quantitative power for over 2000 compounds at 20 levels of calibration with four curve fit options
- Direct comparison of multiple data files from multiple detectors (MS and/or GC)[7]
- Quickly and easily estimate the concentration of non-calibrated compounds (SemiQuant)[8]

Reporting and customization

- General purpose and tailored report packages – Enhanced, EnviroQuant (USEPA), DrugQuant and Aromatics in Gasoline (ASTM)
- Custom report layout and format to fit your lab
- Macro programs to automate repetitive steps
- MSD Security ChemStation[9] to address data tracking mandated by FDA's 21 CFR Part 11

Revolutionary DRS software saves hours of analysis and review

Agilent's Deconvolution Reporting Software (DRS) fully integrates and automates three different analysis tasks:

- Quantitation by the MSD target ion or the AMDIS deconvoluted ion via GC/MSD ChemStation QEdit
- Spectral Deconvolution, or "cleaning" of full scan spectra via National Institute of Standards and Technology (NIST) AMDIS[10]
- Library searching of cleaned spectra using NIST's Mass Spectral Search Program with a MS library

	California Department of Food and Agriculture (CDFA)	Deconvolution Reporting Software (DRS)
Number of pesticide hits	37	Same 37 plus 99 additional
Number of false positives	1	0
Time required to process	8 hours	32 minutes

Comparison of the time to process 17 surface water samples. CDFA *– a skilled analyst processing the 17 samples took about 8 hours to review results and eliminate false positives.* ***Agilent DRS*** *– fully automated process took about* ***30 minutes*** *and identified an additional 99 compounds.*[10]

6 5989-5219EN: *Agilent MSD Productivity ChemStation for GC and GC/MSD*

7 5989-6115EN: *Agilent MSD Productivity ChemStation for GC and GC/MSD Systems*

8 5989-4997EN: *SemiQuant: New GC/MS Software Approaches to Estimating Compound Quantities;* 5990-4164EN: *Agilent Mass Profiler Professional Software*

9 5989-5220EN: *Agilent MSD Security ChemStation for GC/MS Systems*

10 5989-5076EN: *Screening for 926 Pesticides and Endocrine Disruptors by GC/MS with Deconvolution Reporting Software and a New Pesticide Library*

Advanced data processing **with MassHunter software**

Process GC/MSD files effortlessly – with Agilent MassHunter software and the automatic file conversions on the MS Data Analysis.

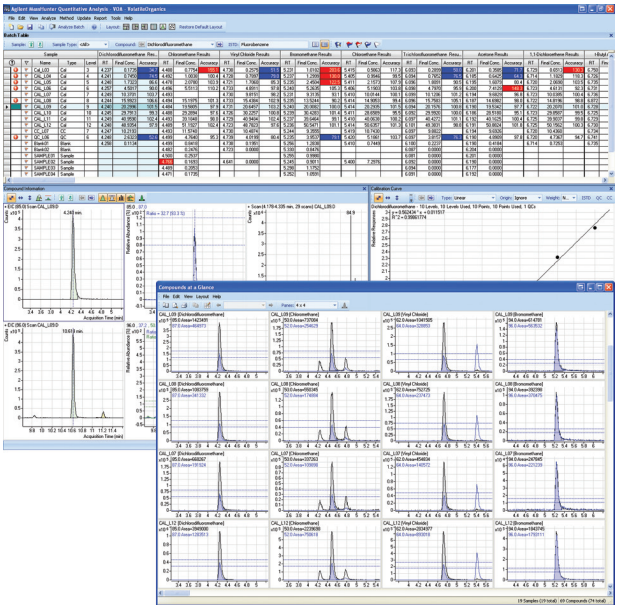
MassHunter Data Analysis software features:

- A single user interface across all Agilent MS platforms
- Quantitation capabilities to shorten your path to results
- Qualitative tools to extract the important information from your samples

Quantitation capabilities include:

- Batch-at-a-glance and compound-at-a-glance review
- Outlier flagging and integration metrics help you focus on problem compounds
- Second generation parameter-less integration that reduces the need for manual integration

Qualitative tools provide deconvolution and library searching across a wide selection of general and application-specific libraries.



Convert data to information using Agilent OpenLAB Enterprise Content Manager (ECM)

Agilent OpenLAB Enterprise Content Manager is a web-based application that provides a secure, centralized repository for all of the electronic data generated in your organization.[11]

Comprehensive search and collaboration tools allow users to effectively find, use and re-use the information they need to make intelligent business decisions. Agilent OpenLAB ECM makes your lab more efficient, productive, and confident by enabling the conversion of the broadest range of analytical data into accurate and actionable information.

[11] 5989-6104EN: *Integration of GC/MSD ChemStation with Agilent OpenLAB ECM*

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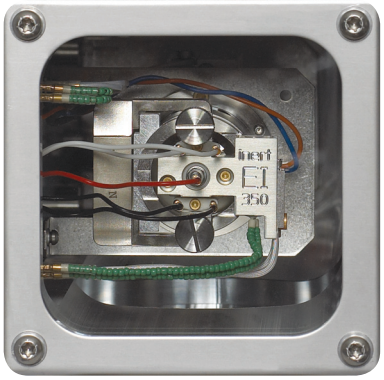
Designed for easy, cost-effective **maintenance and** long-term performance

Agilent GC/MSD systems have always been designed for easy serviceability and maintenance – and the Agilent 5975C Series GC/MSD takes this design philosophy to a whole new level.

Modular analyzer assembly offers complete access to the filament, ion source and electron multiplier for faster routine maintenance. In fact, the entire analyzer assembly can be removed in less than two minutes, without tools. A modular, self-contained electronics module minimizes problems with cables and wiring harnesses.

Front glass window provides simple source identification and a complete view of critical connections – so you can be sure the column is connected properly.



High-reliability vacuum system assures maximum long-term performance.

Triple-channel electron multiplier (EM) more than doubles EM life. The Electron Multiplier Saver feature further extends EM life during SIM operation with highly concentrated peaks.

Optional ion gauge helps troubleshoot and isolate leaks as quickly as possible.

Oil-free pump – clean and virtually maintenance free. Agilent is the first mass spectrometer manufacturer to offer the unique and environmentally-friendly oil-free pump. An oil-free pumping system virtually eliminates pump maintenance, reduces noise, and can be used with corrosive gases such as ammonia.

Early maintenance feedback (EMF) alerts pending maintenance of GC and MSD automatically to help you to keep your GC/MSD system running smoothly.

Count on the industry's best GC/MS systems for consistent, routine analyses

Agilent's diverse GC/MS portfolio has exactly what you need to boost your lab's performance and productivity, including:

- High sensitivity detectors for every sample type
- Flexible configurations that can accommodate demanding out-of-lab measurements and cross-industry regulations
- Advanced analysis capabilities
- Optimized throughput and uptime
- Performance turbo, standard turbo, and diffusion pump options
- An inert ion source for trace analyses

Agilent 5975C Series GC/MSD

- Advanced separation capabilities
- Powerful productivity enhancements
- Real-time self-monitoring instrument intelligence

Agilent 240 Ion Trap GC/MS

- Broadest range of ionization and scanning techniques – EI, CI, MS/MS, MS^n
- Highest EI and CI full scan sensitivity
- Robust operation and extended uptime

Agilent 5975E GC/MSD with 7820A GC

- An affordable GC/MSD option
- Suitable for major GC/MS applications worldwide

Agilent 220 Ion Trap GC/MS

- Compact size with full analytical capabilities
- Easy upgrade path to CI and MS/MS
- Flexible and affordable system

The transportable Agilent 5975T LTM GC/MSD

- Lab performance out-of-lab
- Faster GC separations by LTM (Low Thermal Mass) technology

Agilent GC/MS Analyzers

- Ready-to-use packaged workflow solutions for over 60 major applications
- Pre-configured and factory tested with application-specific method and standards checkout mixture

Agilent 7000 Series Triple Quadrupole GC/MS

- The only Triple Quadrupole designed specifically for GC analyses
- Routine femtogram-level sensitivity and superior selectivity
- Up to 500 MRM transitions per second

To view Agilent's full GC/MS portfolio, visit **www.agilent.com/chem/gcms**

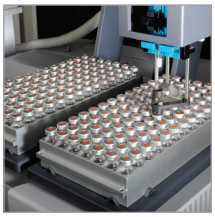
Accessories and options make your 5975C even more versatile and productive

The Agilent 7693A Automatic Liquid Sampler *speeds sample processing*

From small-volume injection... to large-volume injection... to multi-phase sampling, the 7693A system can help you process samples more quickly – and get better data, too. Agilent's exclusive dual simultaneous injection feature saves time by doubling sample throughput. And the exclusive fast-injection technology – two times faster than any competitive ALS – minimizes needle discrimination and sample degradation. It also ensures the best possible peak shape, while maximizing the accuracy of results.

Unmatched flexibility

No built-in autosampler can match the flexibility of the modular 7693A ALS. The 7693A quickly installs on the 5975C to allow for greater solvent capacity and multiple sampling options – working seamlessly with all currently available benchtop Agilent gas chromatographs.



The CTC PAL Autosampler *expands sample prep options*

The CTC PAL sample injectors enable GC and GC/MS laboratories to increase productivity with greater automated sample preparation capabilities and a variety of sample vial options. The high-end CombiPAL sample injector offers three types of sample injection techniques – liquid injection, headspace, and solid phase microextraction (SPME). The lower-cost GC PAL platform can be configured for liquid injection only – but offers many of the other capabilities of the CombiPAL, including large volume injection (LVI), multiple vial sizes, and extended sample vial capacity.

The Agilent 7697A Headspace Sampler *delivers precision and performance*

When every second counts, you need the best, most current headspace sampling technologies at your disposal. That is why the 7697A Headspace Sampler was designed with time-tested hardware features, such as advanced pneumatic controls and valve-based sampling, which deliver extraordinary precision and performance.

The 7697A Headspace Sampler is unique in that every vial is heated, pierced, and pressurized *before the sample enters the sample loop*. The headspace gas is then flushed through the transfer line and into the GC. Because the carrier path is separated from the headspace pneumatic functions, you gain complete control over the gas venting process – plus easy access to the GC injector for maintenance and troubleshooting.

The New Agilent 7696A Sample Prep WorkBench *eliminates rework*

The Agilent 7696A WorkBench automates the most error prone and tedious steps in the sample prep process to save you time, assure consistency, and eliminate rework as well as exposure to dangerous chemicals. It is flexible enough for small, specialized runs or complex high-volume studies.

Featuring easy to use "point and click" software – it can run unattended for hours and requires no complex programming. This dramatically decreases variability errors and provides a written record of steps performed and resources used.

As the only standalone prep workstation from the major chromatography leader, the 7696A WorkBench is manufacturer and technique agnostic. It can be used for all HPLC, LC/MS, GC, and GC/MS sample prep needs regardless of system manufacturer. All samples are finished in 2 mL vials that are compatible with most LC and GC autosamplers.

High performance columns and supplies ensure confident GC/MS results

As the world's leader in chromatography, Agilent is uniquely positioned to offer not only industry-leading instruments, but also the most innovative GC columns, supplies, and sample preparation tools. All are engineered or selected by our experienced design teams, manufactured to our demanding specifications, and tested under a variety of strict conditions. Agilent's entire consumables portfolio ensures a lifetime of peak performance for your instrument and maximum productivity in your lab.

Agilent J&W GC columns: Achieve the lowest level detection limits for difficult analytes across applications

Put 40 years of Agilent quality and innovation behind every separation. Agilent J&W GC columns represent the widest portfolio of columns with the lowest bleed levels, the best inertness for acids/bases/mixed functional compounds, and the tightest column-to-column reproducibility. Integrated guard columns are also available for your convenience.

Ensure reliable results with Agilent sample prep products

Only Agilent offers a complete line of sample preparation products for all types of analyses with the largest choice of formats and sorbents across the full spectrum of GC and GC/MS instrumentation. Agilent Bond Elut QuEChERS extraction and dispersive kits and solid phase extraction (SPE) products – such as best-in-class Bond Elut Plexa – help you confidently extract and concentrate samples from complex matrices. You achieve fast, accurate, and reproducible results every time.

Choose Agilent supplies for accurate results

The little things can have the greatest impact on your results. Capillary column ferrules, O-rings and septa are packaged to remain clean and ready for use, and conveniently dispense one at a time for fast inlet maintenance. Agilent MS analyzed vials and MS certified liners assure optimal performance and accurate results every time. And conditioned liner O-rings – matched with our proprietary injection-molded, gold-plated inlet seal – prevent even the tiniest leaks that cause column bleed and signal deterioration.

Agilent J&W GC columns and the complete portfolio of chromatography supplies *are available through your local Agilent Representative and Agilent Authorized Distributors.*

Choose from:

Agilent J&W Ultra Inert GC columns

Tested with the most demanding test probe mixture in the industry, these columns push industry standards for consistent column inertness and exceptionally low column bleed, resulting in lower detection limits and more accurate data for difficult analytes

Agilent J&W "Mass Spec Grade" GC columns

VF-ms (Factor Four), DB-ms and HP-ms offer the widest range of selectivity with the most robust performance and the lowest column bleed

Agilent J&W Select GC columns

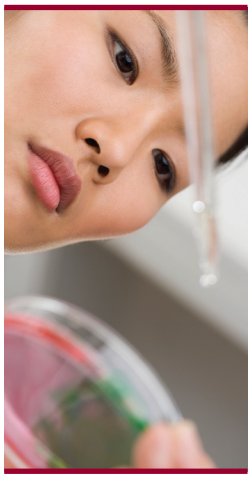
The widest selection of application-specific GC columns created specifically for unique analytical requirements, offer you optimal selectivity

Agilent J&W LTM column modules

Low Thermal Mass column modules for the transportable Agilent 5975T LTM GC/MSD and the Agilent 7890 LTM systems

For more information on Agilent columns and supplies, visit **www.agilent.com/chem/supplies**

Trusted service and support
lets you focus on what you do best



Comprehensive Agilent services keep your lab running

Agilent's service organization is the most respected in the industry. Whether you need support for a single instrument or a multi-laboratory operation, Agilent service professionals can help you solve problems quickly, increase your uptime and optimize your lab's resources. Services available for the full line of Agilent GC/MS systems include:

- On-site preventive maintenance to ensure dependable operation and minimize unplanned downtime
- Troubleshooting, maintenance, and repair for Agilent, as well as non-Agilent instruments
- Remote diagnostic and monitoring services to maximize instrument uptime and lab productivity
- Industry-leading regulatory compliance services and education
- Certified functional verification to confirm the accuracy and calibration of critical system functions
- Expert consulting and training

The Agilent Value Promise – 10 years of guaranteed value

In addition to continually evolving products, Agilent offers something else unique to the industry – a 10-year value guarantee. The Agilent Value Promise guarantees you at least 10 years of instrument use from your date of purchase, or you will receive credit for the residual value of that system toward an upgraded model. This promise ensures a safe purchase now and guarantees value in your investment over the long run.

The Agilent Service Guarantee

Should your Agilent instrument require service while covered by an Agilent service agreement, repair is guaranteed or Agilent will replace your instrument at no cost to you. No other manufacturer or service provider offers this level of commitment to keep your laboratory running at maximum productivity.

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