SIMPLIFY AND ACCELERATE YOUR COMPLEX SCREENING METHODS

The Measure of Confidence

Agilent GC/MSD Semi-Volatiles Analyzer

Reduce the strain on your resources when implementing new technologies for analyzing difficult matrices

Based on Agilent's 5977A Series GC/MSD and 7890B GC System, our user-friendly GC/MSD Semi-Volatiles Analyzer quickly screens and quantitates large numbers of target compounds in complex matrices – all within a single analysis. Its built-in features include Deconvolution Reporting Software (DRS), plus a semi-volatiles library with 338 single-component analytes from EPA methods 525, 625 and 8270. Together, these tools help you quickly and accurately analyze target compounds in dirty matrices. Additionally, the Analyzer is pre-tested for semi-volatiles analysis – with inlet, column, capillary flow technology, and software tools factory installed and configured – allowing your team to focus on method validation instead of method development.

Screen *more* target compounds... in *less* time

Agilent's GC/MSD Semi-Volatiles Analyzer makes use of productivity-boosting GC/MS technologies that allow you to:

- Increase the number of targets screened
- Differentiate target compounds from matrix interference
- Reduce the analysis time required per sample
- Perform a complete data evaluation with screening and quantitation in 2-3 minutes post run
- Produce consistent, high-quality results immediately after installation

The following components are included – saving you time and money:

- Semi-Volatiles checkout samples
- Retention Time Locked application-specific column, ensuring reliable database matching
- Video training tutorials for easy learning of more advanced Analyzer features
- Quick-start guide and Application Note that show you how to run the screening method provided with the Analyzer
- CD-ROM with analysis methods, data files, and reports

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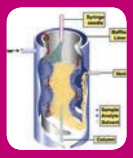
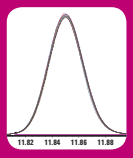
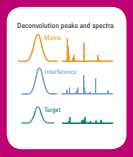
These built-in features make it *faster* and *easier* to screen large numbers of target compounds in complex matrices



Multimode Inlet (MMI) with large-volume injection enhances trace-level detection and adds flexibility by including standard split/splitless capabilities.



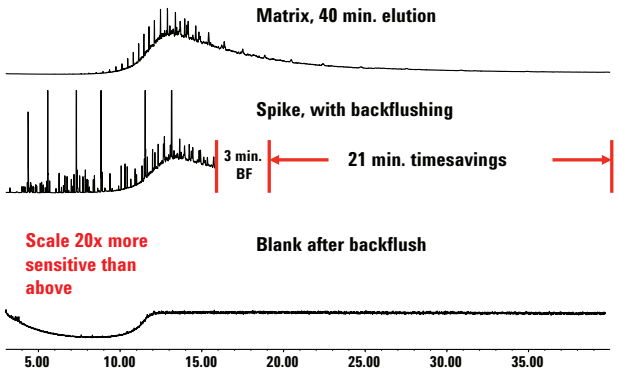
Retention Time Locking (RTL) for consistent retention times after column maintenance and easy matching with the 338-compound semi-volatiles library.



Deconvolution Reporting Software (DRS) works with a semi-volatiles library that includes 338 single-component analytes from EPA methods 525 and 8270. This powerful combination lets you achieve fast, high-confidence screening of target compounds... particularly those in dirty matrices.

Capillary Flow Technology (CFT) and backflush promote shorter run times, low chemical background, longer column life, and less frequent source cleaning to improve uptime.

See how our GC/MSD Semi-Volatiles Analyzer will get your lab on the *fast track* to better broad-range screening



This graph proves that backflushing can reduce run time by 50%. The blank area after backflush indicates that the inlet and column are clean.

MSD Deconvolution Report
Sample Name: Semivoas Checkout
Data File: C:\msdchem\1\DATA\Semivoas_Relock\Semivoas_Relock_2.D
Date/Time: 4:27:55 PM Monday, August 24, 2009
Adjacent Peak Subtraction = 2
Resolution = Medium
Sensitivity = High
Shape Requirements = Medium
The NIST library was searched for the components that were found in the AMDIS target library.

			Amount (ng)		AMDIS		NIST	
R.T.	Cas #	Compound Name	Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
3.8773	62759	N-Nitrosodimethylamine	7.33	7	95	0.6	92	1
6.2524	62533	Aniline	10.21	8.4	99	0.3	96	1
6.569	3855821	1,4-Dichlorobenzene-d4	10	10	98	0.4	93	1
7.3429	78591	Isophorone	10.19	10.36	97	0.7	96	1
7.7494	81209	1,3-dimethyl-2-nitrobenzene (ss)	10.64	11.4	97	0.3	97	1
7.8060	1146652	Naphthalene-d8	10	10	100	0.4	90	1
8.6450	77474	Hexachlorocyclopentadiene	12.88	12.8	96	-1.0	85	1
9.0438	7786347	Mevinphos	11.96	11.36	96	-1.0	91	2
9.5301	15067262	Acenaphthene-d10	10	10	99	0.4	85	1
9.5652	51285	2,4-Dinitrophenol	18.86	17.57	91	-1.1	92	1
9.6000	100027	4-Nitrophenol	12.32	13.17	95	-0.8	91	1
9.6937	121142	2,4-dinitrotoluene	11.6	11.18	97	-0.9	92	1
10.0725	86737	Fluorene	10.33	9.22	98	-0.6	94	1
10.0944	534521	4,6-Dinitro-2-methylphenol	15.32	15.32	95	-0.6	93	1
10.2014	1582098	Trifluralin	11.65	11.93	97	-0.6	93	1
10.6528	122349	Simazine	12.47	10.77	93	-0.7	85	2
10.6773	1912249	Atrazine	11.21	11.11	96	-0.7	93	1

A DRS report (with locked retention times) of the semi-volatiles checkout sample. Together with Agilent's semi-volatiles library, DRS quickly and accurately identifies target compounds in high-matrix samples.

Ordering information:

Order an Agilent **5977A Series GC/MSD** along with an Agilent **7890B GC system** using the following Part Number:

- **G3445B#461: Semi-Volatiles DRS Screening GC/MSD Analyzer**

Put your lab on the productivity fast track.

Contact your local Agilent Representative or Agilent Authorized Distributor

Call **800-227-9770** (in the U.S. or Canada) or visit **www.agilent.com/chem/appkits**

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