SIMPLIFY SCREENING OF TARGET AND NON-TARGET COMPOUNDS

The Measure of Confidence

New Agilent GC/Q-TOF Pesticide Library

Capture all the data, all the time with the Agilent 7200 Series GC/Q-TOF

Conventional multi-target pesticide screening methods are based upon triple quadrupole technology. However, these methods are limited to target compounds, and do not allow a retrospective analysis of collected data.

Using Quadrupole Time-of-Flight (Q-TOF) technology for pesticides screening allows you to:

- Screen for a virtually unlimited number of pesticides in a variety of matrices
- Refer back to your data anytime – without reruns – to investigate samples for both target and non-target compounds
- Analyze your samples for unknown compounds or emerging contaminants

Our new library gives you the ability to set up screening applications for hundreds of targeted compounds in a fraction of the time. It includes:

- **Exact mass spectra** for more than 740 pesticides and environmental contaminants
- **Three versions of the library** with retention times for the most common RT-locked screening methods
- **MassHunter PCDL manager software** accelerates data review and reporting by letting you search for compounds and modify libraries
- **Quick-start guide and Application Note** show you how to develop screening methods, create libraries, and easily add new compounds to your target list
- **CD-ROM** with examples of screening methods, data files, and reports that simplify method setup and adaptation

Confidently screen your samples by combining the Agilent 7200 Series GC/Q-TOF with our new Exact Mass Pesticide Library.

Agilent Technologies

PERFORM TRULY COMPREHENSIVE SCREENING FOR LARGE NUMBERS OF TARGET AND NON-TARGET COMPOUNDS

Set up pesticide methods in *minutes*, rather than days

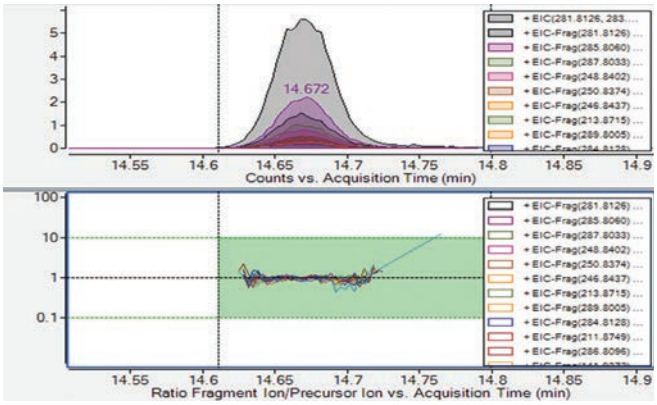
Together with the All Ions workflow, the new Agilent GC/Q-TOF Pesticide Personal Compound Database and Library (PCDL) makes it easy to screen for hundreds of pesticide residues in a single analysis using high-resolution accurate mass data.

Transform your results from acceptable to exceptional: The Agilent GC/Q-TOF Accurate Mass Library contains more than **740** pesticides and environmental contaminants.

Perform fast, accurate screening and confirmation

After data is acquired, the software automatically finds the characteristic ions from the PCDL spectrum for each compound. It then calculates a Coelution Score between the reference ion and additional fragment ions.

The Coelution Score goes beyond retention time, using *all* chromatographic data – including peak width and symmetry – to determine the covariance of the fragment ions and reference ion. A Coelution Plot lets you visualize the results with ease.



In the **MassHunter Qualitative Analysis software**, the *Compound Details view* of the All Ions workflow allows for quick review of the screening. This view includes the Overlayed Extracted Ion Chromatograms (top) and the Coelution Plot (bottom) for the fragment ions of a pesticide. Verifying the coelution of the compound fragments is a critical part of compound confirmation.

Ordering Information:

MassHunter GC/Q-TOF Pesticide Database and Library (G3892AA)

Confidently analyze more pesticides, faster. Go to:

agilent.com/chem/Q-TOF_PCDL

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