

SCIEX Triple Quad™ 3500 LC-MS/MS System

Legendary power, accuracy and flexibility. All within your technology budget.



What Else Can I Do with an LC-MS /MS for Environmental Testing?

Accurately Detect and Quantify Your Molecules

EPA Method 535:
Detection of Degradates of Chloroacetanilides and other Acetamide Herbicides in Water by LC-MS/MS

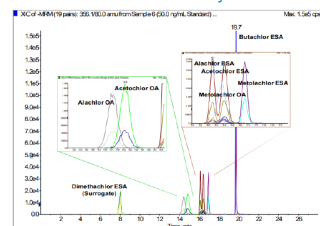


Figure 2. Reproducible chromatography was achieved using a gradient on a Restek Ultra C18 3 µm 100Åx2.1 mm column. A 50 ng/mL initial calibration point is shown. Sufficient baseline separation was achieved for structural isomers Atachlor ESA and Acetochlor ESA with a consistent resolution factor of 3.5 or greater.

Advantages of Using Triple Quadrupole over Single Quadrupole Mass Spectrometry to Quantify and Identify the Presence of Pesticides in Water and Soil Samples

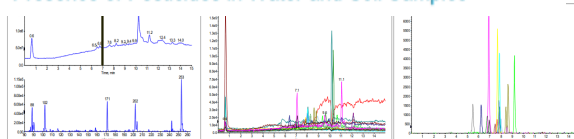


Figure 2. Pesticide in a soil extract detected in different single and triple quadrupole scan modes (left to right): Full scan with MS spectrum (50 µg/kg), Selected Ion Monitoring (5 µg/kg), and Multiple Reaction Monitoring (5 µg/kg)

Quantitative Analysis of Explosives in Surface Water Comparing Off-Line Solid Phase Extraction and Direct Injection LC-MS/MS

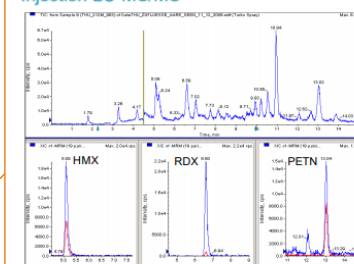
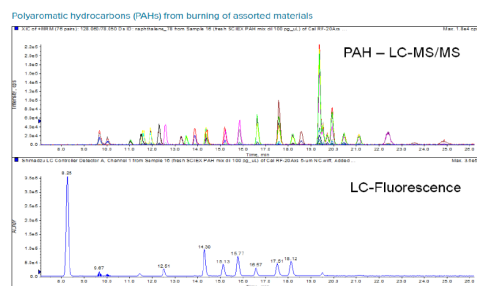


Figure 2. TIC of a lake water sample taken at a depth of 212 m showing the presence of HMX, RDX and PETN using off-line SPE

Analysis of Polycyclic Aromatic Hydrocarbons (PAH), Alkylated Derivatives, and Photo-degradation Products in Environmental and Food Samples using LC-FLD-MS/MS with QTRAP® Technology



Analysis of Endocrine Disruptors, Pharmaceuticals, and Personal Care Products in River Water

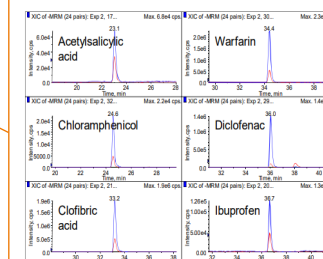


Figure 3. Overlay of two MRM transitions used for six selected analytes. The most sensitive transition in blue for each analyte is used for quantitation. The area ratio of the second MRM in red is used for identification



Accurately Detect and Quantify Your Molecules With Precision Mass Spectrometry Tailored to Your Needs

Quantitation of Terpenes in Cannabis Products Using the Triple Quad 3500 LC-MS/MS System

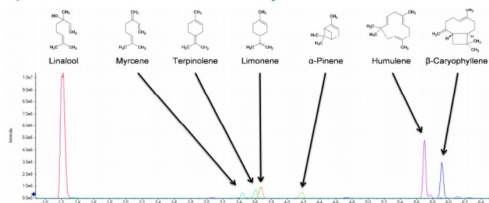


Figure 1. Structures of some terpenes relevant to the production of cannabis products shown with a sample chromatogram from this method. Resolution of isomers was critical to the success of this application.

Can LC-MS/MS Be Used in Horse Meat Detection?

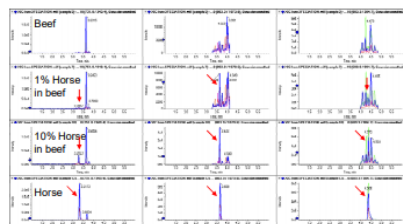


Figure 4. Detection of peptides characteristic for horse meat in beef at different levels, it shows that horse meat can be detected at a 1% level

The Detection of Allergens in Bread and Pasta by Liquid Chromatography Tandem Mass Spectrometry

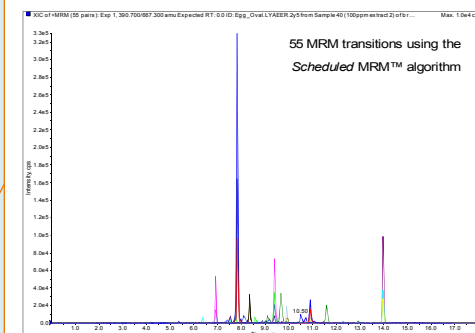


Figure 2. Scheduled MRM™ algorithm screen for peanut, milk, egg and wheat allergens in a bread sample spiked with 100 ppm milk and egg proteins

Analysis of Pesticides in Food Samples Using the SCIEX Triple Quad 3500 System

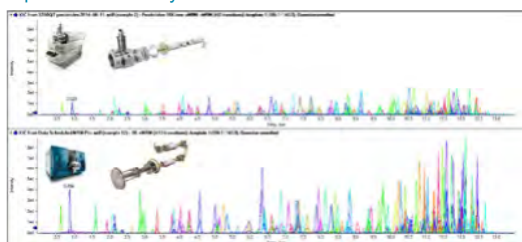


Figure 2. Sensitivity comparison of a 10 ng/mL standard analyzed using the API 3200 System (top) and SCIEX Triple Quad 3500 System (bottom) with an average sensitivity gain of 3x

Quantitation and Identification of 13 Azo-dyes in Spices using LC-MS/MS

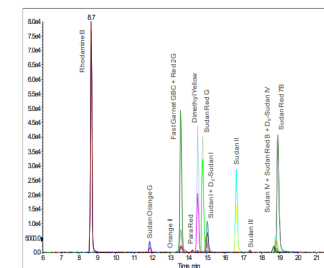
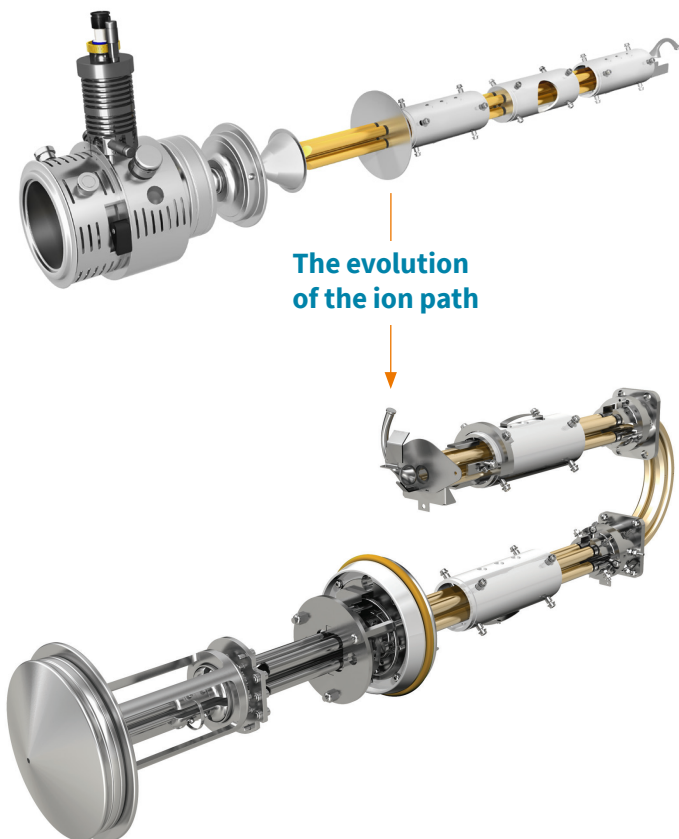


Figure 2. Detection of 13 selected azo-dyes in positive polarity



Take Your Traditional GC/MS and HPLC Methods to the Next Level

Powerful, modern hardware for ultimate reliability and productivity on a budget, with the SCIEX Triple Quad 3500 LC-MS/MS System



More MRMs per injection, space-saving design

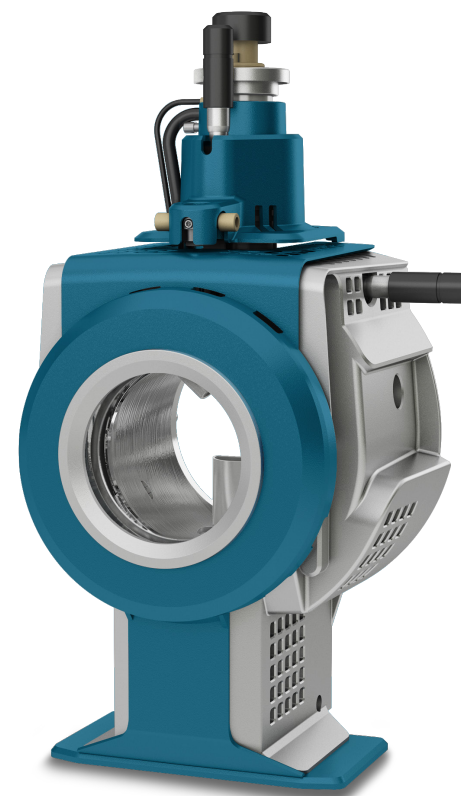
Curved LINAC® collision cell

Evolution of the ion path – modernized to meet the demands of today’s analytical labs

The Triple Quad 3500 System takes the best features of the API 3200™ System and enhances them with modern engineering and electronics.

What’s keeping with tradition?

The robustness and ruggedness you expect from SCIEX instruments featuring the legacy Turbo V™ source and Curtain Gas™ interface.



The Revolutionary Turbo V Source

It has underpinned academic research discoveries, pharmaceutical development, forensic investigations, clinical workflows and testing to ensure our food is safe to eat and water is safe to drink.

Adaptable to the demands of your workflows, the Turbo V Source features both Electrospray Ionization (ESI) and Atmospheric Pressure Chemical Ionization (APCI).

AB Sciex is doing business as SCIEX. © 2019 AB Sciex. For Research Use Only. Not for use in diagnostic procedures. The trademarks mentioned herein are the property of AB Sciex Pte. Ltd. or their respective owners. AB SCIEX™ is being used under license.

RUO-MKT-03-9490-A

Headquarters

500 Old Connecticut Path
Framingham, MA 01701 USA
Phone 508-383-7700
sciex.com

International Sales

For our office locations please call the division headquarters or refer to our website at sciex.com/offices

