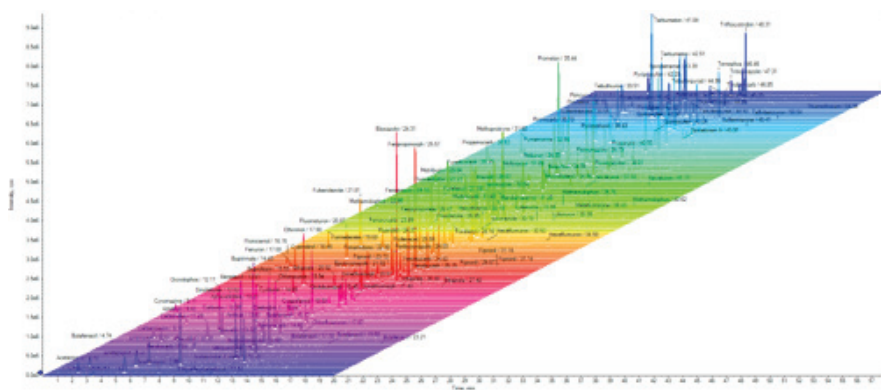


# Are You Sure You Reported Everything in Your Food Sample?

## SCIEX SWATH® Acquisition - Your next workflow for routine food screening

This new workflow will revolutionize how you screen your food samples. Traditionally, it is standard practice to screen food samples such as fruits and vegetables against a targeted list of transitions on a triple quad mass spectrometer. But, what if there is a compound present in your sample that is not in your target analyte list? The answer is SWATH powered by SCIEX OS.

### Top 3 reasons to use SWATH



See beyond your target list. SWATH acquisition delivers MS/MS data of all peaks detected in your sample

1

#### Reduce the risk of false negatives

What happens if you missed a crucial compound that was present in your sample but not in your target list? With MS/MS<sup>all</sup> you can maintain credibility of your lab and be sure to have more confidence in the results you report. This scan type allows you to capture all the data you need first time, so you can see beyond your targeted method.

2

#### No need to re-run degraded samples

How fast do the crucial compounds degrade in your sample? When you run a SWATH workflow you will no longer need to physically re-analyze it. This scan function enables you to acquire a digital archive of all the analytes contained in the sample. This means you can mine your data long after your sample has degraded or been discarded.

3

#### See more without method development constraints

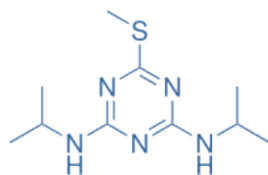
New pesticides are constantly being synthesized. Are you prepared? With SWATH you can test for new pesticides without buying a standard and optimizing transitions. There is no need to change your current method. With this unbiased, non-targeted acquisition you won't get caught off guard with new compounds or regulations

See more and achieve more with SWATH

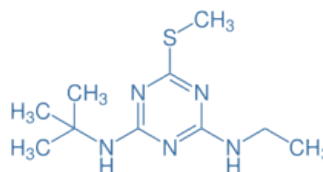


# The Power of SWATH® in Food Samples

Prometryn and Terbutryn are isomers (C<sub>10</sub>H<sub>19</sub>N<sub>5</sub>S) with a retention time difference of only 0.4 min. Identifying and confirming the difference between these compounds based on the MRM transitions alone carries a risk of uncertainty. Characteristic fragment ions are required to differentiate both compounds, but identification is possible with SWATH using fragment ion ratios and MS/MS library searching.

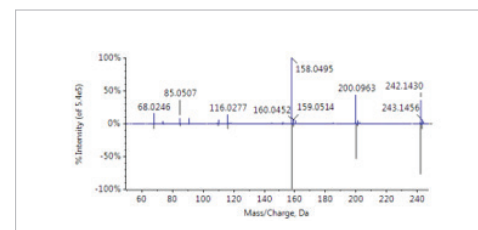
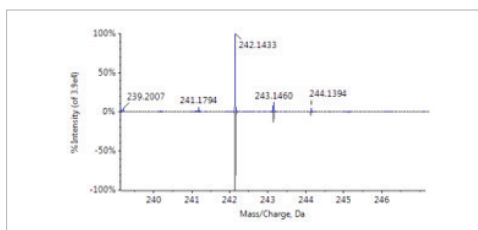
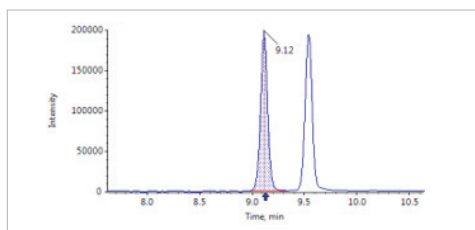


Name	Prometryn
Formula	C <sub>10</sub> H <sub>19</sub> N <sub>5</sub> S
CAS number	7287-19-6
Molecular weight	241.36

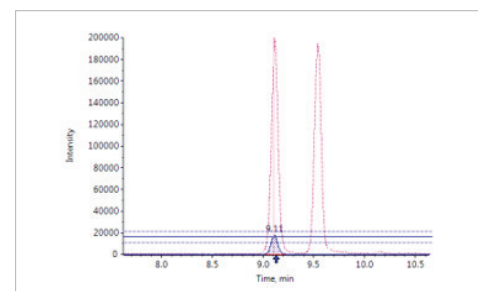
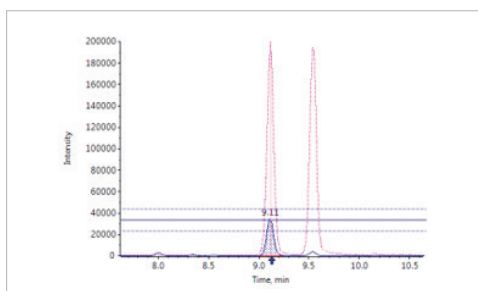
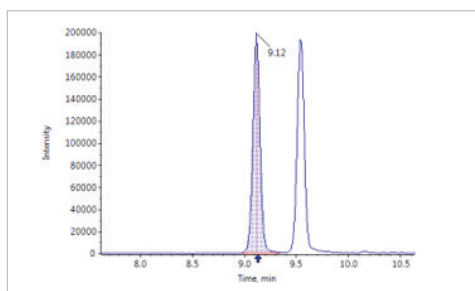


Name	Terbutryn
Formula	C <sub>10</sub> H <sub>19</sub> N <sub>5</sub> S
CAS number	886-50-0
Molecular weight	241.36

## Prometryn SWATH ion ratio and library searching (100% match)

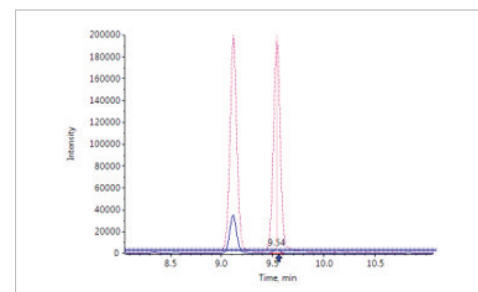
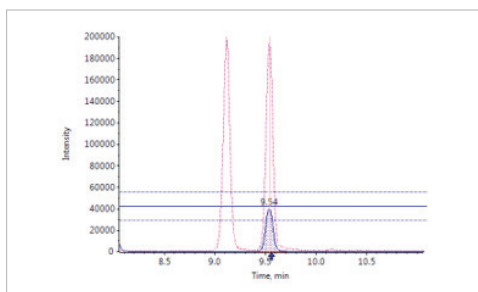
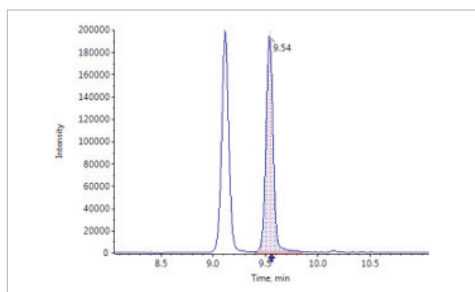


Separation of the two analytes is achieved with reversed phase chromatography. Analyte detection is confirmed by processing the data against our comprehensive acquired spectral library

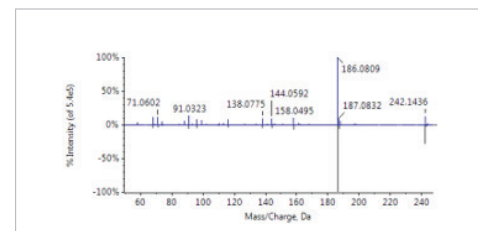
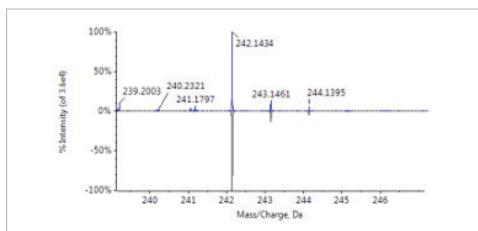
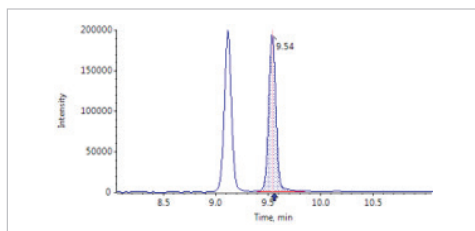


Unique to this full scan workflow are the Ion Ratios, these crucial indicators are vital in confirming the results you report in order to meet regulation standards.

## Terbutryn SWATH ion ratio and library searching (100% match)



With this workflow there is no need to alter your current LC configuration or seek additional time consuming method development. By incorporating Ion Ratios into the data processing and a positive library match we have confidently identified Terbutryn from Prometryn.



Further confirmation and accurate confirmation is achieved by processing the data with the one of our comprehensive high resolution libraries which feature the acquired spectra you need to attain regulatory analytical requirements. You can discover our libraries at [sciex.com/spectral-library-selector](http://sciex.com/spectral-library-selector).