

Agenda for 3 day quantitative analysis of pesticides in cannabis products at SCIEX

SCIEX training courses follow the proven spaced learning approach to maximize learning retention. The training process includes a blend of instructor-led training, hands-on laboratory exercises and self-paced eLearning provided at a SCIEX location.

Course goals and outcome

This course is focused on quantitative pesticide analysis in cannabis products using SCIEX Triple Quad and QTRAP instruments, and is intended for new SCIEX LC-MS instrument users working in the cannabis industry, or non-SCIEX users seeking a detailed overview of pesticide analysis in cannabis products. The course is delivered at a SCIEX location by an experienced SCIEX instructor using a combination of instructor-led and hands-on approaches.

Upon completion of the course, you should be able to perform source and compound optimization, create Scheduled MRM acquisition methods, perform quantitation, troubleshoot and maintain your system. You should be able to transfer the principles and practices learned throughout the course and apply them to your specific workflow.

This course offers a workflow certificate upon completion of a final knowledge assessment.

Course agenda

DAY 1

- **Lecture:** Fundamentals of LC-MS & MS scans
- **Lab exercise:** Software overview
- **Lab exercise:** Instrument tuning
- **Lecture/lab exercise:** Compound optimization and MS/MS scans
- **Lecture/lab exercise:** Source and gas optimization

DAY 2

- Knowledge review and discussion
- **Lab exercise:** Choosing optimal source conditions

- **Lecture:** Quantitation basics and Scheduled MRM data
- **Lab exercise:** Calibration Curve
- **Lecture:** Sample preparation of cannabis products
- **Lecture:** Basic chromatography for analysis of pesticides
- **Lab exercise:** Analysis of cannabis extracts

DAY 3

- Knowledge review and discussion
- **Lab exercise:** Quantitation and data review
- **Lecture:** Comprehensive cannabis analysis
- **Lecture:** Troubleshooting and best practices
- **Lab exercise:** Computer and MS maintenance
- Knowledge evaluation

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