

Waters APGC-MS/MS System Accepted for Advanced Dioxin and Furan Analysis Following USEPA Approval of SGS AXYS Method 16130

1/11/2021

Environmental labs can now use Waters Xevo TQ-XS APGC-MS/MS system for routine, highly sensitive testing with improved robustness

NEWS SUMMARY:

- Under SGS AXYS Method 16130, the Waters™ Xevo™ TQ-XS mass spectrometer is an accepted alternative technology for dioxin analysis based on updated guidelines from the U.S. Environmental Protection Agency
- Waters collaborated with SGS AXYS Analytical Services Ltd. to validate APGC-MS/MS as an accepted method for dioxin testing
- U.S. environmental laboratories can consider APGC- MS/MS as an alternative to legacy magnetic sector instrumentation for routine testing of dioxins in environmental samples

MILFORD, Mass.--(BUSINESS WIRE)-- Waters Corporation (NYSE:WAT) today announced that its [Xevo TQ-XS](#) atmospheric pressure gas chromatography (APGC) mass spectrometry (MS) platform is an accepted alternative for the identification and quantification of dioxins and furans in environmental samples. Dioxins are a byproduct of human industrial activity and their effects on human health are well documented¹. The acceptance of Method 16130 by the United States Environmental Protection Agency's (USEPA) Office of Water comes after a review of validation data submitted by [SGS AXYS Analytical Services Ltd.](#)

This press release features multimedia. View the full release here:

<https://www.businesswire.com/news/home/20210111005007/en/>

The Waters Xevo TQ-XS mass spectrometer featuring an atmospheric pressure gas chromatography (APGC) ionization source, is now an accepted alternative technology for the

“We are extremely thankful that after a lot of hard work with the

identification and quantification of dioxins and furans in environmental samples under SGS AXYS Method 16130. (Photo: Business Wire)

team at SGS AXYS, the USEPA has opened the door to APGC-MS/MS as an acceptable

alternative for dioxin analysis," said Warren Potts, Senior Director, Food & Environmental Business, Waters Corporation. "This is a great step forward in recognizing the value of performance-based analytical methods and it will translate to increased sensitivity and robustness in the laboratories performing dioxins and other persistent organic pollutants (POPs) analysis."

The USEPA's acceptance of APGC-MS/MS comes after a two-year collaboration with SGS- AXYS. Analytical Services Ltd. Recognizing the need for a more efficient solution, Waters served as a key collaborator of SGS AXYS Analytical Services in the validation of APGC-MS/MS as an approved method for dioxin testing. The standard method, gas chromatography coupled with high-resolution magnetic sector mass spectrometry (GC-HRMS), is associated with large, aging, expensive instruments that are costly to run and maintain.

"As part of the SGS AXYS 'think tank', we were excited to collaborate with the team from Waters Corporation alongside the EPA over the course of two years to develop the SGS AXYS Method 16130," said Coreen Hamilton, a Senior Scientist with SGS Environmental, Health and Safety who worked on the project. "This method is an important piece of the puzzle in the modernization and diversification of testing for dioxins and other toxic contaminants."

Acceptance of the APGC-MS/MS method frees laboratories to deploy modern instrumentation that is less expensive, more sensitive and easier to operate.

Learn more about the [Waters Xevo TQ-XS Tandem Quadrupole MS system](#) at Waters' web site.

Additional Resources

- Download the [APGC-MS/MS brochure](#)
- Read our whitepaper: [APGC-MS/MS: A New Gold Standard](#)
- Download the business solution: [SGS AXYS and Waters Validate a New Method for Dioxin Testing and Furan Analysis](#)
- [Access our blog post on the topic of dioxin analysis](#)

About Waters Corporation (www.waters.com)

Waters Corporation (NYSE:WAT), the world's leading specialty measurement company, has pioneered chromatography, mass spectrometry, and thermal analysis innovations serving the life, materials, food and environmental sciences for more than 60 years. With more than 7,000 employees worldwide, Waters operates directly in 35 countries, including 15 manufacturing facilities, and with products available in more than 100

countries.

1. World Health Organization, [Dioxin and Their Effects on Human Health, Key Facts](#)

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