

Signature Science
Quality Assurance Services



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National Security • Homeland Security • Environment • Public Safety

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science LLC®

SUPPORTING NATIONAL CHEMICAL AND BIOLOGICAL SECURITY PROGRAMS

QUALITY ASSURANCE

ASQ-certified Quality Engineers and QA specialists bring over 25 years of experience in developing and deploying tailored measurement quality assurance and quality control programs for sampling and analytical operations. We specialize in quality programs for government CBRNE threat monitoring and first responder networks. Support services include laboratory systems QA program design, analytical proficiency testing, QC data management and evaluation, problem identification and resolution, statistical data analysis, laboratory audits, and accreditation support.

PROFICIENCY TESTING

We have been providing custom-tailored proficiency testing samples and schemes for government CBRNE programs for over 15 years. Operating under ISO/IEC 17043-compliant practices and procedures, our PT samples support analytical testing involving characterization of unknown samples and identification of chemical warfare agent-related chemicals, toxic industrial chemicals, toxic industrial materials, explosives, biological pathogens, and select toxins in environmental matrices, on various collection media, and in samples of powders, liquids, and other composition.

STATISTICAL ANALYSIS

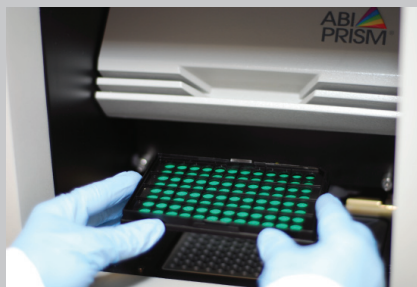
Our experienced statisticians use sophisticated statistical data analysis tools and techniques to evaluate analytical program data and quantify measurement error rates and risks, providing true data defensibility for the most critical, high-profile measurement and monitoring programs. Applications include sampling and analytical method validation, performance assessment, troubleshooting, statistical confidence assessment, and ongoing quality improvement.

ACCREDITATION SUPPORT

We offer nationally-recognized expertise in supporting CBRNE laboratories, including both fixed and mobile labs, in developing and implementing ISO/IEC 17025-compliant quality systems and in guiding laboratories through the accreditation process. With over a dozen experienced QA specialists, trained by the American Association for Laboratory Accreditation as ISO/IEC 17025 assessors, we provide systems evaluation and gap analysis, development of documents and tools, training, technical reachback, and assistance in accrediting body selection and interface.

LABORATORY AUDITS

With experience based on over a hundred audits of the nation's leading CBRNE laboratories, we understand the analytical technology, the special operating environments, and the unique quality assurance and quality control challenges associated with CBRNE measurement programs. Our ASQ-certified Quality Auditors and Quality Engineers, and A2LA-trained ISO/IEC 17025 assessors, bring both recognized auditing credentials and the critical technical expertise that provide true value and actionable information in third-party laboratory audits.



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