

## **Status and results of Xenon Proficiency Test Exercises**

One key element of the quality assurance/quality control (QA/QC) program for IMS Noble Gas systems of the Radionuclide network will be based on sample re-analyses at IMS laboratories. Station and Radionuclide Laboratory results of measurements of Xenon activity concentrations and isotope ratios will be compared since these parameters are independent of gas losses. In order to ensure the credibility of IMS Laboratories as providers of noble gas analysis results, the Laboratories require certification to perform the analysis of noble gas samples, as well as their regular participation in a QA/QC program. Regular Xenon Proficiency Test Exercises (Xe PTEs) are a key part of the laboratory QA/QC program, and these exercises support the PTS review of Lab capabilities and compliance. Recent activities related to Xe PTEs as well as Xe PTE results will be presented.

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**Track Classification:** Theme 3. Verification Technologies and Technique Application