BALTIC SCIENTIFIC INSTRUMENTS

Flowing HPGe Spectrometer

(Liquid Nitrogen cooled)

Application

Highly efficient control of radionuclide materials with low activity in on-line mode (fresh fuel rods, liquid and gas flows)

Accessories (optional)

- Multichannel Analyzer (Digital or Analog-Digital)
- Analytical Software packages:
  - quantitative and qualitative analysis
  - γ-spectra modeling & efficiency registration calculation for complex geometry objects
  - extended radionuclide library
- Liquid nitrogen storage and filling system
- Liquid nitrogen sensor and monitor
- Cable set extension

Features

- Detection unit performs 4π geometry measurements as measuring product is moving inside germanium detector
- Radionuclide efficiency registration is dozen times higher than efficiency registration of standard coaxial detection unit of the same dimensions
- HPGe detector flowing geometry can be developed based on the crystal with equivalent efficiency from 10% to 100%

Complete set (standard)

- HPGe coaxial detector
- Preamplifier with cooled input stage
- Dewar vessel
- Cable set
- Documentation

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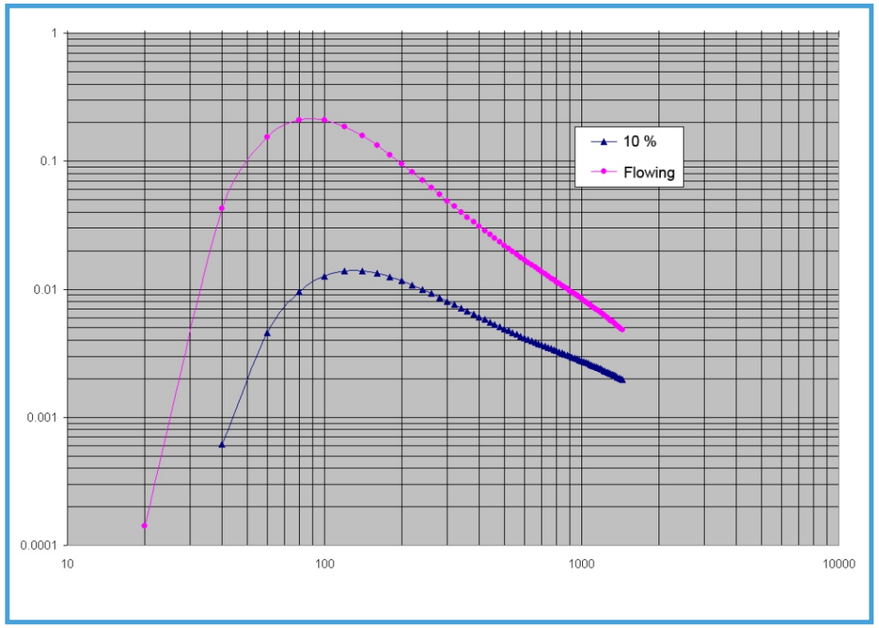
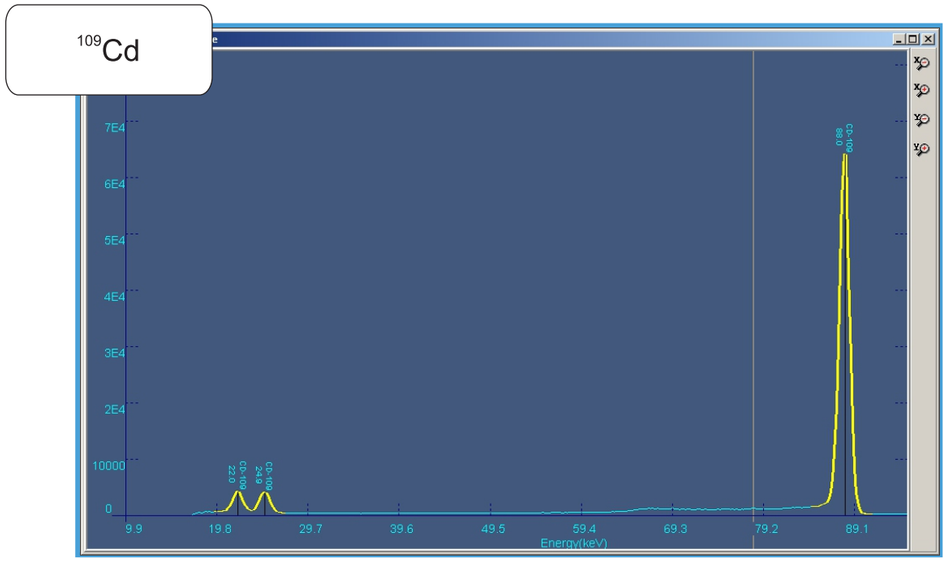
Specification



Absolute efficiency registration comparison curves during gamma-emissioning sample positioning inside and outside detector



Spectrum of wire sample containing source ^{109}Cd of low activity