BALTIC SCIENTIFIC INSTRUMENTS

Bringing Solutions

Prompt Gamma Neutron Activation Analysis (PGNAA) Spectrometer

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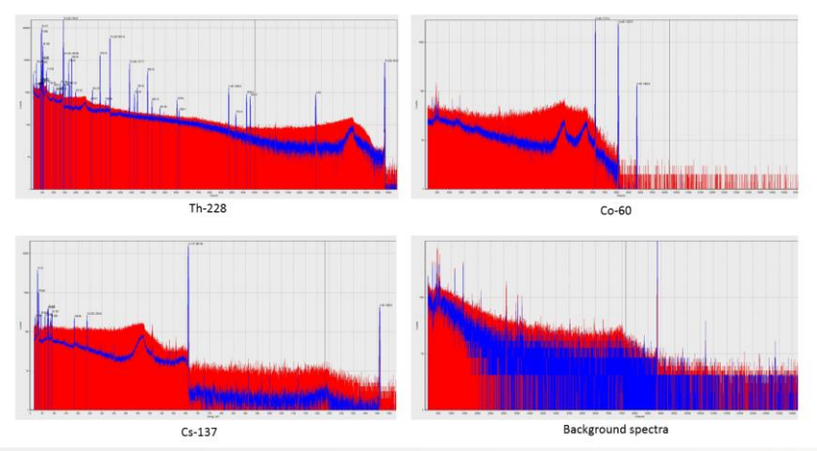
DESCRIPTION

Unlock the future of material analysis with our state-of-the-art Prompt Gamma Neutron Activation Analysis (PGNAA) Spectrometer. Designed for precision and efficiency, our PGNAA spectrometer is the ultimate solution for industries requiring rapid and accurate elemental analysis of bulk materials. Ideal for mining, cement production, environmental monitoring, and recycling, it provides unparalleled analytical capabilities.

Our PGNAA spectrometer delivers real-time, non-destructive analysis of elements within a sample, allowing immediate feedback and decision-making. It detects a wide range of elements, including trace elements, with exceptional accuracy, ensuring compliance with industry standards.

What sets our PGNAA spectrometer apart is its robust design and user-friendly interface, integrating seamlessly into your workflow for maximum efficiency. The advanced software provides intuitive data interpretation, enabling even non-expert users to operate it easily.

The system can reduce the Compton background by more than 10 times depending on the energy range of the selected peak.



Red spectrum - active shielding is off.
Blue spectrum - active shielding is on.

APPLICATION

PGNAA Spectrometer is intended for:

- Analysis of the radionuclide composition of samples containing trace amounts of radionuclides;
- Search for decay products of radionuclides of anthropogenic or natural origin;
- High registration efficiencies and low detection limits are achieved with;
- Reduction of natural background levels through the use of materials purified from radionuclides;
- Increase in peak contrast due to active suppression of Compton scattering quanta.

PGNAA Spectrometer is applicable in:

- Mining and Mineral Exploration: For accurate and rapid elemental analysis of ores and minerals.
- Environmental Monitoring: Detecting and quantifying pollutants in soil and water.
- Agriculture: Analyzing soil composition to optimize fertilizer use and crop yields.
- Petrochemical Industry: Monitoring elemental composition in crude oil and its derivatives.
- Geological Research: Studying rock and sediment samples for scientific research.
- Pharmaceutical Industry: Ensuring the purity and composition of raw materials and finished products.
- Academic and Research Institutions: Conducting advanced research in various scientific fields.

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Gamma-rays