

Gamma Scanning after short-time neutron irradiation

What is possible with GS? – After short-time irradiation, samples become short-time activated. Other than PGAA, Gamma Scanning is performed by Radiation Protection either for clearance of samples after imaging measurements, or to determine rough composition.

A short-time irradiation will reveal elements like iron, copper, cobalt, gold, silver, rare earths, actually most elements if they are contained in larger quantities in the sample.

Gamma scans are also performed before longer CT measurements to determine rough composition of unknown samples and to identify elements that could potentially become long-time activated in a long measurement.

Gamma Scanning after neutron irradiation gives information about the bulk composition of a sample, not only about the surface like X-ray luminescence.