

Title (en)

METHOD AND DEVICE FOR ISOTOPE- SELECTIVE MEASUREMENT OF CHEMICAL ELEMENTS IN MATERIALS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ISOTOPENSELEKTIVEN MESSUNG CHEMISCHER ELEMENTE IN MATERIALIEN

Title (fr)

PROCEDE ET DISPOSITIF POUR LA MESURE AVEC SELECTIVITE ISOTOPIQUE D'ELEMENTS CHIMIQUES CONTENUS DANS DES SUBSTANCES

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Application

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Abstract (en)

[origin: WO0020847A1] The invention relates to a method and device for isotope-selective measurement of chemical elements, especially radioactive elements, in materials, especially radioactive materials. The aim of the invention is to provide a method and a device which permits measurement of the total concentration and the isotope composition of the contained elements in a manner which is as easy as possible. To this end, an optical emission spectroscopy method, according to which plasma in the form of a sample vapor cloud is generated by laser ablation from a sample to be analyzed, is combined with a laser-induced fluorescence spectroscopy method, according to which the sample vapor cloud is analyzed by laser-induced excitation of fluorescence.

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