

RUBIDIUM ELUTION SYSTEM CONTROL**ABSTRACT**

Embodiments of the present invention provide for assessing the state of an ^{82}Rb elution system. In certain embodiments, a system begins an assessment that comprises an elution, and a metric may be measured. This metric may be a concentration of ^{82}Rb , ^{82}Sr , or ^{85}Sr in a fluid that is eluted from the generator, the volume of the fluid that is eluted from the generator, or the pressure of the fluid flowing through at least one portion of the system. If the assessment is completed, an output may be generated on a user interface that recommends a course of action, or no course of action, based on a result of the assessment. Should the assessment not complete successfully because it is interrupted, a $^{82}\text{Sr}/^{82}\text{Rb}$ generator of the system may be halted so as to prevent a user from performing an end-run around these quality control mechanisms of the ^{82}Rb elution system.

FIG. 3