

2.1-P01. A multiple sample holder for ganging samples during IFE14

The number of samples taken during an OSI could be large as they could result from different field mission and area of interests. In order to achieve a good throughput of analyses to support effectively the search logic, it could be useful to run a cumulative measurement, ganging a group of samples. The ganging rationale is related to the location of the samples, to the type or to the field mission, and the relative gamma spectrometry measurement could give some information on the total activity of the group of samples. If the results is positive, the analyst could go through a sequentially de-ganging of the group in order to discriminate one or more samples with an anomalous activity. ENEA has designed, implemented and tested a plastic sample holder for the gamma spectrometry measurement of multiple samples. The holder has been used during IFE14 for the ganging measurements. The multiple sample holder has been manufactured by plastic material in order to have a known composition and to be easily cleaned and decontaminated; the characterization of the holder has been run with different geometries and positions of the sample containers in order to have a best estimation of the geometry efficiency.

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