

On-Site ISOCS Characterization

Minimize Downtime with an On-Site Characterization



CANBERRA's On-Site ISOCS Characterization provides all the differentiated benefits of Cascade Summing Corrections and ISOCS/LabSOCS calibrations without the need to send your detector away for characterization. Your detector is returned to service by CANBERRA personnel upon completion of the measurements, minimizing further the impact on your operations.

The Site Detector Characterization Service provides you with a service that fully characterizes detectors either at your site, or if this is not possible, at one of CANBERRA's local service offices. This means that the detector is out of service for the duration of the characterization measurements only (generally 2-3 days per detector).

SERVICE INCLUDES:

- > Detector characterization and detector verification
- > Verification of the characterized detector using standard geometries provides further benchmarking of the characterized detector for typical laboratory geometries. The verification report also gives you an important QA document in support of audits
- > Standard geometries include: glass fiber filter paper, 20 cc acrylic cylinder with a solid resin matrix, 400 mL polypropylene container with a solid resin matrix and a 2.8-liter Marinelli beaker with a solid resin matrix



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CHARACTERIZATION ADVANTAGES:

- > The detector is characterized at all points around the crystal (not just in front of the detector end cap), which means that the result fully accounts for variation in detector response as a function of the angle of the source (which can be due to the dead layer, internal crystal structures, and bulletization of the crystal)
- > Characterized detector allows single and easy cascade summing corrections. This is a significant advantage over alternative techniques which require a high quality reference source measurement for each counting geometry
- > The advantages of mathematical calibration software are now well understood across the nuclear measurement industry. The elimination of traditional calibration sources provides significant savings in cost and measurement time. In addition, the flexibility of these tools allows excellent replication of the measured sample geometry resulting in improved accuracy over fabricated calibration source standards

