

Information for pilot institutes of radioactivity comparisons

Pilot Institute

The pilot institute has the main responsibility for running, registering, and keeping the comparison updated in the KCDB.

KCWG(II)

The KCWG(II) is available to assist the pilot institute and has official review roles as described in CIPM-MRA-G11. The pilot may be a guest at KCWG(II) meetings to propose, update, or seek input.

KCDB

The pilot institute will interact with the KCDB online (<https://www.bipm.org/kcdb/>) for comparison registration, updates, reports, etc. If you do not have an account with access to KCDB please contact the Executive Secretary who can request one for you. Please review the quick start guide on the KCDB website to get started. Direct questions to BIPM.KCDB@bipm.org.

Comparison Requirements and Guidance

The latest version of rules and guidance documents can be found on the CIPM-MRA section of the BIPM website, <https://www.bipm.org/en/cipm-mra/cipm-mra-documents>.

Detailed guidance is provided in CIPM-MRA-G11, "Measurement comparisons in the CIPM MRA". The guide covers CIPM and RMO comparisons, both Key and Supplemental, as well as pilot studies.

One requirement of G11 is that a statement indicating which service categories/CMCs can be supported by the comparison, or criteria to identify such categories/CMCs (i.e., 'how far the light shines'), be included in the protocol. The following text samples can be used in the protocol and final report.

To be added to the Protocol for Comparisons in Radioactivity in the Section wherein the Pilot is described:

The Pilot is encouraged to consult the Key Comparison Working Group of Section II of the Consultative Committee on Ionizing Radiation [KCWG(II)] for assistance in designing, coordinating, analyzing, and reporting on this comparison and its results.

To be added to Comparison Reports in the Introduction:

Successful participation in this comparison by a laboratory may provide evidential support for Calibration and Measurement Capability (CMC) claims for [nuclide] measured using the laboratory's method(s) used in the comparison or methods calibrated by those used for the comparison. This comparison may also be used to support CMC claims for those radionuclides measured in the laboratory using the same method and having a degree of difficulty at or below that of the radionuclide measured in this comparison as indicated in the current Measurement Methods Matrix (MMM)[1].

[1] International Rules for CMC Claims in Ionizing Radiation Metrology Doc 3 March 16 2021 (Sept 2020), Consultative Committee for Ionizing Radiation metrology (CCRI), <https://www.bipm.org/documents/20126/54619299/Rules+for+entering+CMC+claims+in+ionizing+radiation+metrology/c0b97b77-99e1-4abb-1d10-9a90a35fc9bf>