

## Participant Instructions for the IC2023calib EURADOS Calibration intercomparison

Dear participant,

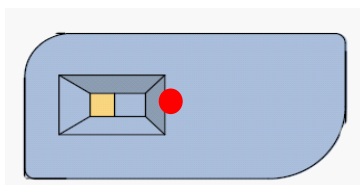
You will receive a set of passive area dosimeters from IRSN/France. The dosimeters will be sent in calendar week 38 and shall arrive in your laboratory before 01 October.

If possible, store the dosimeters at low dose rate conditions, e.g. within a shielded container.

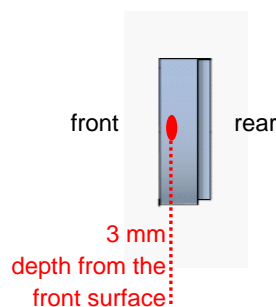
6 dosimeters are to be irradiated per chosen radiation quality (N-30 x-ray, N-150 x-ray, Cs-137 gamma and Co-60 gamma) according to the following irradiation conditions:

- Irradiation dose 10 mSv in terms of  $H^*(10)$   
The irradiated dose shall be between 9.5 mSv and 10.5 mSv
- Irradiation date on or close to 11 October 2023  
The irradiation date shall be between 01 and 21 October
- Homogeneous  $^{137}\text{Cs}$  and  $^{60}\text{Co}$  gamma radiation field  
3 mm PMMA build-up plate directly in front of the dosimeters is recommended  
Irradiation of two dosimeters at a time is recommended
- Homogeneous N-30 and N-150 x-ray radiation field  
Irradiation without a build-up plate in front of the dosimeters  
Single dosimeter irradiations are recommended
- Positioning of the dosimeters preferably free-in-air  
Dosimeter numbers need not be in increasing order  
Dosimeter **reference point** and orientation according to the following drawing:

Front view  
(focal spot view)



Side view  
(focal spot is left)



At least 5 dosimeters are not allowed to be irradiated and will be used for background dose subtraction, the other additional dosimeters are spare dosimeters and can be used in case of a wrong irradiation.

For each radiation quality, you must fill in the xlsx protocol which is provided by e-mail and in the documents folder:

<https://www.eurados-intercomparison.org/ic2023calib>

The dosimeters must be sent back to IRSN and must arrive not later than 31 October at this address:

Alain SAVARY  
IRSN/PSE-SANTE/SMERI  
31 rue de l'Ecluse  
78294 CROISSY-SUR-SEINE CEDEX  
FRANCE

The completed protocol xlsx files and setup photos shall be sent by e-mail not later than 31 October to:

[ic2023calib@eurados-intercomparison.org](mailto:ic2023calib@eurados-intercomparison.org)

In case of problems or questions, please do not hesitate to contact us!

Best regards,

Christian Naber  
Julia Aslan  
Maria A. Duch  
Christian Hranitzky  
EURADOS IC2023calib Organization Group