

Values of $N_{D,w}/N_K$ measured at NMIs for different ion chambers

D.W.O. Rogers

At the last CCRI meeting I agreed to collect data on the measured values of $N_{D,w}/N_K$ for different chamber types at the various NMIs. So far I have data from 5 different NMIs covering 227 ratios of calibration coefficients for 14 different chamber types.

The data give, for each chamber type and for each NMI the average value of their measured $N_{D,w}/N_K$, the number of ratios measured, the sample deviation for the measured ratio, the range of the measured ratios and finally, each NMI's measured ratio converted to what the ratio would be if using the BIPM standards (this last number is based on the known ratios of the NMI and BIPM standards for absorbed dose and air kerma).

We have decided not to present the data prior to the meeting to encourage other laboratories to contribute their data without knowing the 'expected' results based on the values from other NMIs. The full table will be presented at the meeting.

The results may prove very useful, if only to provide the 'expected' values for a given chamber type and the expected variation in the measured values. Since the variation tends to be quite small at most NMIs, this may prove a useful QA check.

If you wish to have your data included in the final version of this document, then please get them to me by 10 May.