

NPL publications – Radioactivity
2005 - 2006

J Dean, S Jerome, *A survey of user requirements for a UK National Infrastructure for Radioactivity Metrology in Nuclear Site Decommissioning*, Conference paper for ANS Topical Meeting on Decommissioning, Decontamination and Reutilisation, 7-11 August 2005, Denver, USA

G Ratel, C Michotte, Y Hino, D Tyler, S Judge, I A Kharitonov, *Activity measurements of the radionuclide ^{51}Cr for the NMIJ, Japan and the NPL, UK in the ongoing key comparison BIPM.RI(II)-K1.Cr-51 and the linking of the activity measurement of the VNIIM, Russian Federation in the APMP.RI(II)-K2.Cr-51 regional key comparison*, Metrologia, 2005, 42, Tech. Suppl, 06014 [online]

A Harms, J Dean, C Gilligan, S Jerome, *The performance of UK and Overseas laboratories in Proficiency Tests for the measurement of Am-241*, Book Chapter in Environmental Radiochemical Analysis III, edited by P Warwick, The Royal Chemical Society Special Publication.

G Ratel, C Michotte and L Johansson, *Update of the BIPM.RI(II)-K1.Tc-99m comparison of activity measurements for the radionuclide $^{99}\text{Tc}^m$ to include the NPL*, Metrologia 42 (2005) 06015 [online]

A V Harms, S M Jerome, *Preparation of Calibrated Reference Sources containing 'Fresh' Fission Products*, Journal of Radioanalytical and Nuclear Chemistry, 264 (2005) 517-522

I Outola, J Filliben, K G W Inn, C McMahon, G A Peck, J Twining, S G Tims, L K Fifield, P Smedley, M P Antón, C Gascó, J La Rosa, M K Pham, A Raaum, H Wei, G C Krijger, P Bouisset, A E Litherland, W E Kieser, M Betti, L Aldave de las Heras, G H Hong, E Holm, L Skipperud, A V Harms, A Arinc, M Youngman, D Arnold, H Wershofen, D S Sill, S Bohrer, Q J Dahlggaard, I W Croudace, P E Warwick, T Ikäheimonen, S M Vakulovsky, J A Sanchez-Cabeza, *Development of the NIST seaweed Standard Reference Material*, Applied Radiation and Isotopes, 64 (2006) 1242-1247

L Johansson, A Stroak, *Kr-81m calibration factor for the NPL ionisation chamber*, Applied Radiation and Isotopes 64 (2006), 1360-1364

C Michotte, A K Pearce, M G Cox, J J Gostely, *An approach based on the SIR measurement model for determining the ionization chamber efficiency curves, and a study of ^{65}Zn and ^{201}Tl photon emission intensities*, Applied Radiation and Isotopes, 64 (2006) 1147-1155

J C J Dean, *A study of options for the management of liquid scintillation waste*, Applied Radiation and Isotopes, 64 (2006) 1520

NPL reports

M Baker, K Chari, S M Judge, T D MacMahon, A Stroak, *A review of commercial Radionuclide Calibrators*, NPL Report DQL-RN 003, January 2005.

S Judge, *A review of UK requirements for a measurement infrastructure for radionuclides used in positron*, NPL Report DQL-RN 006, January 2005.

J Dean, S Jerome, *A survey of user requirements for a UK Radioactivity measurement infrastructure for nuclear decommissioning*, NPL Report DQL-RN 009, March 2005.

D MacMahon, C Baglin* (Lawrence Berkeley Nuclear Laboratory, Berkeley, CA, USA), *Evaluation of gamma-ray emission probabilities in the decay of ⁵⁶Co*, NPL Report DQL-RN 010, April 2005.

D Tyler, M Baker, M Woods, *Comparison of Strontium-89 Solution Sources in UK Hospitals*, 2003, NPL Report DQL-RN 012, May 2005.

Arvic Harms, Chris Gilligan, Arzu Arinc, Sean Collins, Simon Jerome, Lena Johansson, Desmond Macmahon and Andy Pearce, *Environmental Radioactivity Comparison Exercise 2005*, NPL Report DQL-RN 015, June 2006.

S Collins, C Lee, *Third IRMF Comparison of Surface Contamination Monitor Callibrations 2004-2005*, NPL Report DQL-RN 016, July 2006.

Desmond MacMahon, Jo Townley, Eleanor Bakhshandear and Arvic Harms, *Comparison of Technetium-99m Measurements in UK Hospitals 2006*, NPL Report DQL-RN 018, December 2006.

Measurement Good Practice Guides

R Gadd, M Baker, K S Nijran, S Owens, W Thomas, M J Woods, F Zananiri, *Protocol for establishing and maintaining the calibration of medical radionuclide calibrators and their quality control*. Measurement Good Practice Guide No. 93, May 2006. ISSN: 1368-6550

A P Woodman, M Pottinger, D Ryden, J C J Dean, *The examination and testing of equipment for monitoring airborne radioactive particulate in the workplace*. Measurement Good Practice Guide No. 82, October 2006. ISSN: 1368-6550