



# HSE EXTREMITY PERFORMANCE TEST REPORT

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Dosimetry Service (ADS): Landauer Europe Post Code: OX5 1JE  
Contact: Dr Chris Perks Dosemeter Type: Landauer TLD Ring

Receipt of Dosimeters: 27 March 2008 Date of Irradiation: 07 April 2008  
Dispatch of Dosimeters: 11 April 2008 Date of Receipt of ADS Readings: 17 April 2008

Results					
Dosemeter ID	True Dose mSv	ADS Reading mSv	Ratio	Bias %	Relative standard deviation %
0526197	3.90	3.95	1.013	4.56	1.88
0526205		4.14	1.062		
0526206		4.07	1.044		
0526213		4.10	1.051		
0526218		4.13	1.059		
0526200	7.30	7.68	1.052	4.71	6.20
0526201		7.89	1.081		
0526207		6.94	0.951		
0526209		8.21	1.125		
0526210		7.50	1.027		
0526198	44.00	48.03	1.092	8.32	5.19
0526212		44.42	1.010		
0526214		46.29	1.052		
0526215		50.99	1.159		
0526217		48.57	1.104		
0526199	237.00	259.42	1.095	6.52	6.79
0526203		230.40	0.972		
0526204		271.84	1.147		
0526211		261.60	1.104		
0526221		238.95	1.008		

Overall mean bias 6.03%

Overall relative standard deviation 5.15%

Performance Test Result PASS - Band A

Signature of Qualified Person

Andrew Galpin IEng MIET

Notes:

- Air kerma rates are derived from measurements made by a dosimeter calibrated at the NPL.
- The uncertainty in air kerma rate is +/- 3%, and is for a confidence probability of not less than 95%.
- A factor of 1.12 mSv per mGy is used to convert air kerma values to penetrating dose equivalents. This factor is derived from data published by UKAS and the NRPB.
- The dosimeters are irradiated in free air behind a sheet of 3 mm thick perspex, using a collimated Cs-137 source.

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