



0210



Certificate Number:
1143032PW



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HSE ADS WHOLE BODY PERFORMANCE TEST REPORT

Issued By: Nuvia Limited - A56 Winfrith, DT2 8WQ Tel: 01305 755221 www.rpiservices.co.uk

Dosimetry Service (ADS) Landauer Europe
Contact: Dr Chris Perks
Job Reference: JR(W)1835

Post Code: OX5 1JE
Dosemeter Type: Body - Inlight

Receipt of Dosimeters: 16 August 2011

Date of Irradiation: 06 September 2011

Dispatch of Dosimeters 06 September 2011

Date of Receipt of ADS Readings: 10 October 2011

Results

Applied Dose mSv PDE	Dosemeter ID	ADS Reading mSv	Ratio	Bias %	Relative standard deviation %
0.95	1	0.99	1.042	1.47	5.11
	20	1.03	1.084		
	23	0.96	1.011		
	24	0.94	0.989		
	26	0.90	0.947		
2.1	2	2.21	1.052	4.57	1.66
	4	2.14	1.019		
	8	2.18	1.038		
	10	2.23	1.062		
	11	2.22	1.057		
8	3	8.84	1.105	6.88	2.71
	6	8.53	1.066		
	13	8.20	1.025		
	15	8.54	1.068		
	19	8.64	1.080		
27.7	5	27.40	0.989	2.65	5.16
	16	30.65	1.106		
	17	28.76	1.038		
	18	28.51	1.029		
	22	26.85	0.969		
162.2	7	153.58	0.947	-9.04	3.72
	12	145.00	0.894		
	21	152.46	0.940		
	27	146.27	0.902		
	28	140.35	0.865		

Overall mean bias 1.31%

Overall relative standard deviation 6.57%

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 personal dose equivalents. This factor is derived from data published by UKAS and the NRPB.
- The dosimeters are irradiated in free air mounted on an expanded polystyrene board, using a collimated Cs-137

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