

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



4280

Accredited to
ISO/IEC 17025:2005

The Radiological Protection Centre Incorporating the John Perry Laboratory St George's University Hospitals NHS Foundation Trust

Issue No: 011

Issue date: 02 November 2018

Unit 5
The Observatory
24 Deer Park Road
London
SW19 3UA

Contact: Mehboob Rathod
Tel: +44 (0)20 8725 1498
Fax: +44 (0)20 8417 1338
E-Mail: mehboob.rathod@stgeorges.nhs.uk
Website: www.sghrpc.co.uk

Calibration performed at the above address only

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks
RADIOLOGICAL			
<u>Air Kerma</u>	BS EN 61267:2006 all RQR qualities BS EN 61267:2006 all RQR-M qualities BS EN 61267:2006 RQT8 and RQT9 qualities BS EN 61267:2006 RQA5 quality 75kV with 2.5 mm Al added filtration and HVL of 2.5mm Al 70 - 75kV with added filtration of 2.5 mm Al + 2.0mm Cu and HVL of 9.2mm Al 125kV with added filtration of 2.5mm Al + 0.2mm Cu and HVL of 8.5mm Al 125kV with added filtration of 2.5mm Al + 1.0mm Cu and HVL of 11.3mm Al 70kV with added filtration of 2.5mm Al + 21.0mm Al and HVL of 6.5mm Al 25kV-35kV with total filtration 30µm Mo + 1mm Be	2.9 %	Calibration of dosimeters intended for use in diagnostic radiology at the beam qualities stated
<u>kVp Meters</u> <u>Peak Practical Voltage</u> <u>Peak Average Voltage</u>	Beam qualities 50-150kV with total filtration of 2.5mm Al or 3.0mm Al on the diagnostic tube 24-35kV with total filtration of 30µm Mo + 1mm Be on the mammography tube	2.7 %	<u>Non-invasive kV calibrations</u> Calibration of non-invasive kVp meters intended for use in diagnostic radiology at the beam qualities stated



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<u>Dynalyzer High Voltage Unit</u>			Calibration of the Dynalyzer High Voltage Unit (HVU)
Anode current	10 mA to 250 mA	0.40 %	
Filament current	1 A to 10 A	0.40 %	
Anode frequency response	10 kHz to 170 kHz at 1000 V	1.0 %	
Cathode frequency response	10 kHz to 170 kHz at 1000 V	1.0 %	
Cathode kV	5 kV to 75 kV	0.40 %	
Anode kV	5 kV to 75 kV	0.40 %	
END			