Ionizing Radiation, Austria, BEV (Bundesamt für Eich- und Vermessungswesen)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
RADIOACTIVITY																
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	5.000E+04	4.000E+09	Bq g^{-1}	Co-60	no further specifications	0.7	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2001	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Be-7	no further specifications	2.50	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2002	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+05	9.000E+09	Bq g^{-1}	F-18	no further specifications	2.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2003	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	5.000E+04	4.000E+09	Bq g^{-1}	Na-22	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2004	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+04	3.000E+09	Bq g^{-1}	Na-24	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2005	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	K-42	no further specifications	1.2	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2006	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	6.000E+04	5.000E+09	Bq g^{-1}	Sc-46	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2007	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+05	1.000E+10	Bq g^{-1}	Ca-47	no further specifications	1.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2008	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+06	1.000E+10	Bq g^{-1}	Cr-51	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2009	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	Mn-54	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2010	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	7.000E+04	6.000E+09	Bq g^{-1}	Mn-56	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2011	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	9.000E+05	1.000E+10	Bq g^{-1}	Co-57	no further specifications	1.7	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2012	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+05	1.000E+10	Bq g^{-1}	Co-58	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2013	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+05	9.000E+09	Bq g^{-1}	Fe-59	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2014	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	Zn-65	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2015	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	7.000E+05	1.000E+10	Bq g^{-1}	Ga-67	no further specifications	2.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2016	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+05	9.000E+09	Bq g^{-1}	Ga-68	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2017	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	Se-75	no further specifications	3.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2018	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+04	3.000E+09	Bq g^{-1}	Br-82	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2019	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	Sr-85	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2020	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Rb-86	no further specifications	1.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2021	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	Sr-87^{m}	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2022	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	5.000E+04	4.000E+09	Bq g^{-1}	Y-88	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2023	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+05	1.000E+10	Bq g^{-1}	Mo-99	no further specifications	2.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2024	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	8.000E+05	1.000E+10	Bq g^{-1}	Tc-99^{m}	no further specifications	1.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2025	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	6.000E+06	1.000E+10	Bq g^{-1}	Cd-109	no further specifications	3.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2026	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	In-111	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2027	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+05	1.000E+10	Bq g^{-1}	In-113^{m}	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2028	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+05	1.000E+10	Bq g^{-1}	Sn-113	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2029	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	6.000E+05	1.000E+10	Bq g^{-1}	I-123	no further specifications	2.0	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2030	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+06	1.000E+10	Bq g^{-1}	I-125	no further specifications	4.4	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2031	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	I-131	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2032	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	Ba-133	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2033	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	7.000E+04	6.000E+09	Bq g^{-1}	Cs-134	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2034	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	Cs-137	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2035	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	6.000E+05	1.000E+10	Bq g^{-1}	Ce-139	no further specifications	1.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2036	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Ce-141	no further specifications	2.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2037	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	7.000E+05	1.000E+10	Bq g^{-1}	Ce-144/Pr-144	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2038	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	9.000E+04	9.000E+09	Bq g^{-1}	Eu-152	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2039	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	9.000E+04	8.000E+09	Bq g^{-1}	Eu-154	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2040	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+05	9.000E+09	Bq g^{-1}	Tb-160	no further specifications	1.8	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2041	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	Yb-169	no further specifications	1.6	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2042	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	Ir-192	no further specifications	1.5	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2043	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Hg-197	no further specifications	2.2	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2044	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	3.000E+05	1.000E+10	Bq g^{-1}	Au-198	no further specifications	0.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2045	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+06	1.000E+10	Bq g^{-1}	Au-199	no further specifications	1.9	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2046	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Tl-201	no further specifications	1.2	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2047	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+05	1.000E+10	Bq g^{-1}	Hg-203	no further specifications	1.8	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2048	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+05	1.000E+10	Bq g^{-1}	Pb-203	no further specifications	1.8	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2049	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	5.000E+06	1.000E+10	Bq g^{-1}	Am-241	no further specifications	1.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2050	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Sm-153	no further specifications	1.0	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2051	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+06	1.000E+10	Bq g^{-1}	Re-188	no further specifications	1.7	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2052	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	2.000E+05	1.000E+10	Bq g^{-1}	Ru-106	no further specifications	1.0	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2053	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	4.000E+07	1.000E+10	Bq g^{-1}	P-32	no further specifications	2.4	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2054	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	1.000E+07	1.000E+10	Bq g^{-1}	Sr-90/Y-90	no further specifications	8.0	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2055	
Activity per unit mass	Single nuclide solution	Well type ionization chamber, balance	5.000E+07	1.000E+10	Bq g^{-1}	Sr-89	no further specifications	3.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL (Bq), BEV (g)	EUR-RAD-BEV-2056	
Activity	Single nuclide, gas	Well type ionization chamber	9.000E+04	1.000E+10	Bq	Ar-41	no further specifications	5.0	%	2	not specified	Yes	Secondary standard ionization chamber	PTB	EUR-RAD-BEV-2057	
Activity	Single nuclide, gas	Well type ionization chamber	1.000E+05	1.000E+10	Bq	C-11	no further specifications	4.0	%	2	not specified	Yes	Secondary standard ionization chamber	PTB	EUR-RAD-BEV-2058	
Activity	Single nuclide, gas	Well type ionization chamber	4.000E+07	1.000E+10	Bq	Kr-85	no further specifications	3.1	%	2	not specified	Yes	Secondary standard ionization chamber	NPL	EUR-RAD-BEV-2059	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Surface emission rate	Contamination monitors	Large area solid source	1.500E+02	4.000E+03	s^{-1}	Sr-90/Y-90	rectangular, planar sources	4.0	%	2	not specified	Yes	Large area proportional counter	OMH, PTB	EUR-RAD-BEV-2060	
Surface emission rate	Contamination monitors	Large area solid source	2.000E+02	5.000E+03	s^{-1}	Tl-204	rectangular, planar sources	4.0	%	2	not specified	Yes	Large area proportional counter	OMH, PTB	EUR-RAD-BEV-2061	
Surface emission rate	Contamination monitors	Large area solid source	1.000E+03	2.000E+03	s^{-1}	Cs-137	rectangular, planar sources	5.0	%	2	not specified	Yes	Large area proportional counter	OMH, PTB	EUR-RAD-BEV-2062	
Surface emission rate	Contamination monitors	Large area solid source	5.000E+02	5.000E+03	s^{-1}	Co-60	rectangular, planar sources	4.8	%	2	not specified	Yes	Large area proportional counter	OMH, PTB	EUR-RAD-BEV-2063	
Surface emission rate	Contamination monitors	Large area solid source	1.000E+03	2.500E+03	s^{-1}	Am-241	rectangular, planar sources	4.0	%	2	not specified	Yes	Large area proportional counter	OMH, PTB	EUR-RAD-BEV-2064	
Surface emission rate	Contamination monitors	Large area solid source	2.000E+03	4.000E+03	s^{-1}	Pm-147	rectangular, planar sources	4.0	%	2	not specified	Yes	Large area proportional counter	OMH	EUR-RAD-BEV-2065	
Surface emission rate	Contamination monitors	Large area solid source	1.500E+02	1.500E+03	s^{-1}	C-14	rectangular, planar sources	4.0	%	2	not specified	Yes	Large area proportional counter	OMH, PTB	EUR-RAD-BEV-2066	
Surface emission rate	Contamination monitors	Large area solid source	1.000E+03	1.500E+03	s^{-1}	Cl-36	rectangular, planar sources	4.0	%	2	not specified	Yes	Large area proportional counter	PTB	EUR-RAD-BEV-2067	
Activity per unit mass	Reference material	Gamma ray spectrometer	1.000E+00	1.000E+03	$Bq\ g^{-1}$	Mn-54	reference material, mixed gamma ray nuclides, matrix bentonite	6.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
			1.000E+00	1.000E+03	$Bq\ g^{-1}$	Co-57	reference material, mixed gamma ray nuclides, matrix bentonite	7.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
			1.000E+00	1.000E+03	Bq g^{-1}	Co-60	reference material, mixed gamma ray nuclides, matrix bentonite	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
			1.000E+00	1.000E+03	Bq g^{-1}	Am-241	reference material, mixed gamma ray nuclides, matrix bentonite	13.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
			1.000E+00	1.000E+03	Bq g^{-1}	Cd-109	reference material, mixed gamma ray nuclides, matrix bentonite	14.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
			1.000E+00	1.000E+03	Bq g^{-1}	Ba-133	reference material, mixed gamma ray nuclides, matrix bentonite	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-134	reference material, mixed gamma ray nuclides, matrix bentonite	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-137	reference material, mixed gamma ray nuclides, matrix bentonite	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2068	
Activity per unit mass	Reference material	Gamma ray spectrometer	1.000E+00	1.000E+03	Bq g^{-1}	Mn-54	reference material, mixed gamma ray nuclides, matrix quartz sand	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
			1.000E+00	1.000E+03	Bq g^{-1}	Co-57	reference material, mixed gamma ray nuclides, matrix quartz sand	8.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
			1.000E+00	1.000E+03	Bq g^{-1}	Co-60	reference material, mixed gamma ray nuclides, matrix quartz sand	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
			1.000E+00	1.000E+03	Bq g^{-1}	Am-241	reference material, mixed gamma ray nuclides, matrix quartz sand	15.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
			1.000E+00	1.000E+03	Bq g^{-1}	Cd-109	reference material, mixed gamma ray nuclides, matrix quartz sand	11.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
			1.000E+00	1.000E+03	Bq g^{-1}	Ba-133	reference material, mixed gamma ray nuclides, matrix quartz sand	7.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-134	reference material, mixed gamma ray nuclides, matrix quartz sand	4.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-137	reference material, mixed gamma ray nuclides, matrix quartz sand	5.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH (Bq), BEV (g)	EUR-RAD-BEV-2069	
Activity per unit mass	Reference material	Gamma ray spectrometer	1.000E+00	1.000E+03	Bq g^{-1}	Mn-54	ML - 1	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
			1.000E+00	1.000E+03	Bq g^{-1}	Co-57	ML - 1	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
			1.000E+00	1.000E+03	Bq g^{-1}	Zn-65	ML - 1	4.5	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
			1.000E+00	1.000E+03	Bq g^{-1}	Sr-85	ML - 1	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
			1.000E+00	1.000E+03	Bq g^{-1}	Y-88	ML - 1	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
			1.000E+00	1.000E+03	Bq g^{-1}	Ba-133	ML - 1	4.5	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-137	ML - 1	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
			1.000E+00	1.000E+03	Bq g^{-1}	Ce-139	ML - 1	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2070	
Activity per unit mass	Reference material	Gamma ray spectrometer	1.000E+00	1.000E+03	Bq g^{-1}	Co-60	ML - 2	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2071	
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-134	ML - 2	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2071	
			1.000E+00	1.000E+03	Bq g^{-1}	Cs-137	ML - 2	4.5	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2071	
Activity per unit mass	Reference material	Gamma ray spectrometer	1.000E+00	1.000E+03	Bq g^{-1}	Co-57	ML - 4	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2072	
			1.000E+00	1.000E+03	Bq g^{-1}	Cd-109	ML - 4	4.5	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2072	
			1.000E+00	1.000E+03	Bq g^{-1}	Pb-210	ML - 4	4.0	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2072	
			1.000E+00	1.000E+03	Bq g^{-1}	Am-241	ML - 4	4.5	%	2	not specified	Yes	Gamma ray spectrometer	PTB (Bq), BEV (g)	EUR-RAD-BEV-2072	
Activity per unit volume	Radioactive gas	Gamma ray spectrometer	3.000E+06	3.000E+08	Bq m^{-3}	Kr-85	vessel, Marinelli type	10.0	%	2	not specified	Yes	Gamma ray spectrometer	OMH	EUR-RAD-BEV-2073	

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Activity per unit volume	Radon monitor	Proportional gas counting	1.000E+01	1.000E+05	Bq m^{-3}	Rn-222	no further specifications	10.0	%	2	not specified	Yes	Radon monitor	PTB	EUR-RAD-BEV-2074	
DOSIMETRY																
Absorbed dose rate to graphite	Dosemeter	Calibration in graphite phantom, graphite calorimeter, transfer chamber to calibrate a user beam	1E-03	5E-02	Gy s^{-1}	Co-60	70 TBq (2004), 100 cm SDD, 10 cm x 10 cm FS	0.8	%	2	not specified	Yes	Graphite calorimeter	BEV	EUR-RAD-BEV-1001	Dose derived by integral of dose rate. Approved on 01 March 2005
Absorbed dose rate to water	Dosemeter	Calibration in water phantom, graphite calorimeter + conversion procedure, transfer chamber to calibrate a user beam	1E-03	5E-02	Gy s^{-1}	Co-60	70 TBq (2004), 100 cm SDD, 10 cm x 10 cm FS	0.9	%	2	not specified	Yes	Graphite calorimeter	BEV	EUR-RAD-BEV-1002	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, graphite cavity ionisation chamber, transfer chamber to calibrate a user beam	1E-03	5E-02	Gy s^{-1}	Co-60	70 TBq (2004), 100 cm SDD, 10 cm x 10 cm FS	0.8	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1003	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, transfer chamber to calibrate a user beam	1E-05	5E+01	Gy h^{-1}	Co-60	ISO-4037, 70 TBq (2004), 95 GBq (2004), 6 GBq (2004), 0.8 GBq (2004), 1 m to 18 m SDD	2 to 1.5	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1004	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage factor**	**Level of Confidence**	**Is the expanded uncertainty a relative one?**	**Reference standard**	**Source of traceability**	**NMI Internal Service Identifier**	**Comments**
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, transfer chamber to calibrate a user beam	1E-06	1E-05	Gy h^{-1}	Co-60	ISO-4037, 6 GBq (2004), 0.8 GBq (2004), 1 m to 18 m SDD	3 to 2	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1005	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, graphite cavity ionisation chamber, transfer chamber to calibrate a user beam	1E-01	3E-01	Gy h^{-1}	Cs-137	ISO-4037, 2.6 TBq (2004), 100 cm SDD, 26 cm diam. FS	1	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1006	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, transfer chamber to calibrate a user beam	1E-05	1E-01	Gy h^{-1}	Cs-137	ISO-4037, 2.6 TBq (2004), 55 GBq (2004), 0.5 GBq (2004), 1 m to 18 m SDD	2 to 1.5	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1007	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, transfer chamber to calibrate a user beam	1E-06	1E-05	Gy h^{-1}	Cs-137	ISO-4037, 0.5 GBq (2004), 1 m to 18 m SDD	3 to 2	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1008	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Irradiation in a calibrated field in air, transfer chamber to calibrate a user beam	5E-08	1E-06	Gy h^{-1}	Cs-137	ISO-4037, 0.5 GBq (2004) with Pb-absorber, 1 m to 18 m SDD	7 to 3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1009	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-03	1E-02	Gy s^{-1}	X-ray, 10 kV to 50 kV	BIPM-CCEMRI: 1972, max. 60 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1010	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-04	1E-03	Gy s^{-1}	X-ray, 50 kV to 420 kV	BIPM-CCEMRI: 1972, 100 kV to 250 kV, max. 30 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1011	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-05	2E-03	Gy s^{-1}	X-ray, 10 kV to 50 kV	IEC 1223-3-2, W-anode, filter: Mo, Rh, Pd, unattenuated mammography beam, 23 kV to 50 kV, max. 60 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1012	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-06	1E-04	Gy s^{-1}	X-ray, 10 kV to 50 kV	IEC 1223-3-2, W-anode, filter: Mo, Rh, Pd, attenuated mammography beam, 23 kV to 50 kV, max. 60 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1013	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-05	1E-03	Gy s^{-1}	X-ray, 50 kV to 420 kV	IEC 61267 RQR Series, 40 kV to 150 kV, max. 30 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1014	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-06	1E-04	Gy s^{-1}	X-ray, 50 kV to 420 kV	IEC 61267 RQA Series, 40 kV to 150 kV, max. 30 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1015	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-03	1E-01	Gy h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 Narrow-spectrum Series, 10 kV to 40 kV, max. 60 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1016	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-03	1E-01	Gy h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Narrow-spectrum Series, 60 kV to 300 kV, max. 30 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1017	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	1E-02	1E+00	Gy h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Wide-spectrum Series, 60 kV to 300 kV, max. 30 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1018	Dose derived by integral of dose rate. Approved on 01 March 2005
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	5E-02	5E+00	Gy h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 High air-kerma rate Series, 10 kV to 30 kV, max. 60 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1019	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Air kerma rate	Dosemeter	Calibration against free air parallel plate ionisation chamber	5E-02	5E+00	Gy h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 High air-kerma rate Series, 60 kV to 300 kV, max. 30 mA	0.8	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1020	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Calibration against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 Narrow-spectrum Series, 10 kV to 40 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1021	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Calibration against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Narrow-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1022	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Calibration against transfer chamber	1E-02	1E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Wide-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1023	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Calibration against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 High air-kerma rate Series, 10 kV to 30 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1024	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Ambient dose equivalent rate	Dosemeter	Calibration against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 High air-kerma rate Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1025	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Substitution in reference beam	1E-06	3E-01	Sv h^{-1}	Cs-137	ISO-4037, 2.6 TBq (2004), 55 GBq (2004), 0.5 GBq (2004), 1 m to 18 m SDD	3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1026	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Substitution in reference beam	5E-08	1E-06	Sv h^{-1}	Cs-137	ISO-4037, 0.5 GBq (2004), 1 m to 18 m SDD	7 to 3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1027	Dose derived by integral of dose rate. Approved on 01 March 2005
Ambient dose equivalent rate	Dosemeter	Substitution in reference beam	1E-06	5E+01	Sv h^{-1}	Co-60	ISO-4037, 70 TBq (2004), 95 GBq (2004), 6 GBq (2004), 0.8 GBq (2004), 1 m to 18 m SDD	5 to 3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1028	Dose derived by integral of dose rate. Approved on 01 March 2005
Directional dose equivalent rate	Dosemeter	Calibration against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 Narrow-spectrum Series, 10 kV to 40 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1029	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Directional dose equivalent rate	Dosemeter	Calibration against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Narrow-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1030	Dose derived by integral of dose rate. Approved on 01 March 2005
Directional dose equivalent rate	Dosemeter	Calibration against transfer chamber	1E-02	1E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Wide-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1031	Dose derived by integral of dose rate. Approved on 01 March 2005
Directional dose equivalent rate	Dosemeter	Calibration against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 High air-kerma rate Series, 10 kV to 30 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1032	Dose derived by integral of dose rate. Approved on 01 March 2005
Directional dose equivalent rate	Dosemeter	Calibration against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 High air-kerma rate Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1033	Dose derived by integral of dose rate. Approved on 01 March 2005
Directional dose equivalent rate	Dosemeter	Substitution in reference beam	1E-06	3E-01	Sv h^{-1}	Cs-137	ISO-4037, 2.6 TBq (2004), 55 GBq (2004), 0.5 GBq (2004), 1 m to 18 m SDD	3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1034	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Directional dose equivalent rate	Dosemeter	Substitution in reference beam	5E-08	1E-06	Sv h^{-1}	Cs-137	ISO-4037, 0.5 GBq (2004), 1 m to 18 m SDD	7 to 3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1035	Dose derived by integral of dose rate. Approved on 01 March 2005
Directional dose equivalent rate	Dosemeter	Substitution in reference beam	1E-06	5E+01	Sv h^{-1}	Co-60	ISO-4037, 70 TBq (2004), 95 GBq (2004), 6 GBq (2004), 0.8 GBq (2004), 1 m to 18 m SDD	5 to 3	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1036	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 Narrow-spectrum Series, 10 kV to 40 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1037	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Narrow-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1038	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom against transfer chamber	1E-02	1E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Wide-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1039	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage factor**	**Level of Confidence**	**Is the expanded uncertainty a relative one?**	**Reference standard**	**Source of traceability**	**NMI Internal Service Identifier**	**Comments**
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 High air-kerma rate Series, 10 kV to 30 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1040	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 High air-kerma rate Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1041	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom in reference beam	1E-06	3E-01	Sv h^{-1}	Cs-137	ISO-4037, 2.6 TBq (2004), 55 GBq (2004), 0.5 GBq (2004), 1 m to 18 m SDD	4	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1042	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 10 mm depth	Dosemeter	Calibration on ISO water slab phantom in reference beam	1E-06	5E+01	Sv h^{-1}	Co-60	ISO-4037, 70 TBq (2004), 95 GBq (2004), 6 GBq (2004), 0.8 GBq (2004), 1 m to 18 m SDD	4	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1043	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 Narrow-spectrum Series, 10 kV to 40 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1044	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	Reference standard	Source of traceability	NMI Internal Service Identifier	Comments
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom against transfer chamber	1E-03	1E-01	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Narrow-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1045	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom against transfer chamber	1E-02	1E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 Wide-spectrum Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1046	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 10 kV to 50 kV	ISO-4037 High air-kerma rate Series, 10 kV to 30 kV, max. 60 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1047	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom against transfer chamber	5E-02	5E+00	Sv h^{-1}	X-ray, 50 kV to 420 kV	ISO-4037 High air-kerma rate Series, 60 kV to 300 kV, max. 30 mA	5	%	2	not specified	Yes	Free air parallel plate ionisation chamber	BEV	EUR-RAD-BEV-1048	Dose derived by integral of dose rate. Approved on 01 March 2005
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom in reference beam	1E-06	3E-01	Sv h^{-1}	Cs-137	ISO-4037, 2.6 TBq (2004), 55 GBq (2004), 0.5 GBq (2004), 1 m to 18 m SDD	4	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1049	Dose derived by integral of dose rate. Approved on 01 March 2005

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Reference Standard used in calibration			
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage factor**	**Level of Confidence**	**Is the expanded uncertainty a relative one?**	**Reference standard**	**Source of traceability**	**NMI Internal Service Identifier**	**Comments**
Personal dose equivalent rate at 0.07 mm depth	Dosemeter	Calibration on ISO water slab or PMMA rod phantom in reference beam	1E-06	5E+01	Sv h^{-1}	Co-60	ISO-4037, 70 TBq (2004), 95 GBq (2004), 6 GBq (2004), 0.8 GBq (2004), 1 m to 18 m SDD	4	%	2	not specified	Yes	Graphite cavity ionisation chamber	BEV	EUR-RAD-BEV-1050	Dose derived by integral of dose rate. Approved on 01 March 2005