



CALIBRATION CERTIFICATE

Type: Radiation monitor AT1117M

Date of calibration: 16.11.2019.

SN: 17781

Dose rate measurement limits of X-ray and gamma radiation:  
**BDKG-24: 20 nSv/h – 1.0 Sv/h;**

Measurement error:  
**BDKG-24: ± 20 %;**

Operating conditions:

- Air temperature +21,1 °C
- Atmospheric pressure 98,5 kPa
- Relative humidity 69,7 %
- Gamma radiation background 96 nSv/h

Calibration means:

- standard dosimetry facility AT-130, N 013, Cs-137, error 5%, the Certificate of Compliance N210/1426-2018 on 22.10.2018 issued by FGUP "D.I.Mendeleyev VNIIM", St. Petersburg, Russia);
- standard dosimetry facility AT-130, N 015, Cs-137-137, error 4 %, the Certificate of Compliance N210/ 1427-2018 on 23.10.2018 issued by FGUP "D.I.Mendeleyev VNIIM", St. Petersburg, Russia);

Calibration data

BDKG-24 (γ)

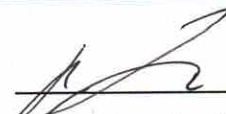
Dose rate at check point $\dot{H}_{oi}(10)$	Radiation source number	Distance to source, $R, cm$	Dose rate measurement at check point,					Relative gamma radiation dose rate measurement error $\theta_{npi}, \%$	Confidence limit of the intrinsic relative error $\Delta_i, \%$ during calibration	Limits of intrinsic relative error, % not above
			Back-ground, $nSv/h$	Measured value $\dot{H}_i(10)$			Average value, $\dot{H}_i(10)$			
				$H_1$	$H_2$	$H_3$				
0,07 @Sv/h	263	200.7	96	0,066	0,069	0,074	0,070	0,00	4,40	±20
0,7 @Sv/h	0HA	236	96	0,69	0,68	0,70	0,69	-1,43	4,67	
7 @Sv/h	0HA	76	---	7,0	7,1	7,2	7,1	1,43	4,67	
70 @Sv/h	K/C Γ3	257	---	66,1	72,6	71,3	70	0,00	4,40	
0.7 mSv/h	K/C Γ3	82	---	0,67	0,70	0,76	0,71	1,43	4,67	
7,0 mSv/h	043	357	---	6,7	7,3	7,1	7	0,00	5,50	
70 mSv/h	043	114	---	66,2	67,2	76,6	70	0,00	5,50	
0,7 Sv/h	163	235	---	0,71	0,72	0,64	0,69	-1,43	5,72	

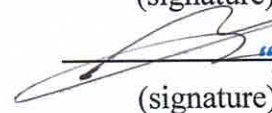
Calibrated by:

V. Pisarenko

Technical control:

N. Kurbatova

  
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