

3rd international radon-in-field intercomparison for passive devices: workplaces and dwellings

EXPOSURE DATA – For all set

	EXPOSURE 1		EXPOSURE 2	EXPOSURE 3	EXPOSURE 4	
Devices	001-002-003		004-005-006	007-008-009	010-011-012 013-014-015	
Location	Ivrea (TO)		Aosta	Ispra (VA)	ENEA Casaccia (RM)	
Exposure start	29/11/2019 14:00		21/11/2019 16:00	25/11/2019 16:00	10/03/2020 18:30	
Exposure end	14/05/2020 14:00		27/04/2020 19:00	04/05/2020 15:00	23/03/2020 12:00	
Altitude (m)	253		583	220	127	
Gamma dose rate (nGy/h)	001	Different values for each participant	126 ± 5	151 ± 5	010 - 011	138 ± 11
	002				012 - 015	114 ± 8
	003					
Equilibrium factor	0.50 ± 0.06		0.35 ± 0.06	0.56 ± 0.06	010 - 011	< 0.05
					012 - 015	0.29 ± 0.13
Temperature (°C)	16 ÷ 24		18 ÷ 25	7 ÷ 22	010 - 011	17 ÷ 21
					012 - 015	18 ÷ 22
Pressure (hPa)	962 ÷ 1018		914 ÷ 968	958 ÷ 1016	010 - 011	1005 ÷ 1015
					012 - 015	994 ÷ 1012
Relative Humidity (%)	36 ÷ 65		26 ÷ 71	48 ÷ 89	010 - 011	45 ÷ 53
					012 - 015	24 ÷ 66

Storage room Politecnico di Milano	Gamma dose rate	80 ± 6 nGy/h
	Radon concentration	36 ± 21 Bq/m ³

All uncertainties are given for k=1



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Shipment diary

From July 2019	Parcel arrival to Politecnico di Milano laboratory
05/11/2019	Shipment of 001, 002, 003 devices from Politecnico di Milan to Ivrea
	Shipment of 004, 005, 006 devices from Politecnico di Milan to Aosta
	Shipment of 007, 008, 009 devices from Politecnico di Milan to Ispra
05/03/2020	Shipment of 010 - 015 devices from Politecnico di Milan to ENEA - Casaccia
06/05/2020	Shipment of 010 - 015 devices from ENEA - Casaccia to Politecnico di Milano
	Shipment of 004, 005, 006 devices from Aosta to Politecnico di Milano
19/05/2020	Shipment of 007, 008, 009 devices from Ispra to Politecnico di Milano
22/05/2020	Shipment of 001, 002, 003 devices from IVREA to Politecnico di Milano
From June 2020	Parcel shipment back to participants