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CERTIFICATE OF PARTICIPATION

Tecnorad s.r.l., Italy participated in the 2024 UKHSA Intercomparison of Passive Radon Detectors. The submitted results for set **144-1**, % measurement errors and corresponding ranks for the five exposures are given in the table below.

Reference exposure kBq m ⁻³ h	Mean kBq m ⁻³ h	1SD kBq m ⁻³ h	% Measurement error	Rank
208	191.7	31.6	18.2	B
379	381.8	35.2	9.2	A
804	800.9	50.6	6.3	A
1317	1322.0	31.6	2.4	A
2294	2270.8	35.0	1.8	A

$$\% \text{ Measurement error} = \sqrt{\left[\frac{\text{Mean} - \text{Reference}}{\text{Reference}} \times 100 \right]^2 + \left[\frac{1\text{SD}}{\text{Mean}} \times 100 \right]^2}$$

If the measurement error is:

- less than 10%, the rank is A
- greater than or equal to 10% and less than 20%, the rank is B
- greater than or equal to 20% and less than 30%, the rank is C
- greater than or equal to 30% and less than 40%, the rank is D
- greater than or equal to 40% and less than 50%, the rank is E
- greater than or equal to 50%, the rank is F

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