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Seasonal Measurements of Indoor Radon Concentration Level in the Period of Summer at Technical College of Applied Sciences in Zrenjanin

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Radon concentration measurements were performed at Technical College of Applied Sciences (TCAS) in Zrenjanin during summer, as part of the „Radon level measurements“ studies financed by the Provincial Secretariat for Higher Education and Scientific Research (the project is currently going on). The two lowest level rooms of the College building were examined, the basement and the groundfloor. We worked with the active type radon detector (brand Airthings) which is capable of both long-term (up to 1 year) and short-term continuous monitoring. It is an alpha type particle detector and contains passive diffusion chamber. Its precision for short-term measurements that were performed is 10%. The detector measured radon for 48h in each of the rooms. Doors and windows were closed during this period and rooms were not ventilated for at least 12h prior to the procedure. The results are discussed and also compared with the results obtained in the course of spring measurements. The maximum measured radon gas concentration at TCAS is below the National Reference Levels limits.

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