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Air Pollution

PASSIVE SAMPLERS - CHECKING METHOD IN THE AIR QUALITY CONTROL NETWORK

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Abstract

In 2001-2002, Danish Environmental Protection Agency developed in Romania the Project IDAQ, focused on transposing and implementation UE Directives on Air Quality.
Locally, the project development was mainly based on the specialists'contribution from three selected Environmental Protection Agencies, including Neamt County one.
One of the project objectives was to strength the institutional capacities, from technical and staff-training points of view, in order to fulfill the requirements of EU Air Quality Directives.
For checking the data representativity and validity in the monitoring networks operated by the selected EPAs, the passive samplers method was used.
Passive samplers for SO_2 and NO_2, produced by the Swedish Institute for Environmental Research, consisting mainly in filters impregnated with specific chemical reagents, put into small size plastic holders, were used parallel with the normal operation of the EPA P.Neamt'air monitoring network.
As conclusion, it was confirmed that the air quality monitoring procedure for NO_2, used by EPA Piatra Neamt, was validated, since the results for SO_2 monitoring weren't enough representative.

Keywords: passive samplers, air quality monitoring

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