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Report of the laboratory and in-situ validation of micro-sensors for monitoring ambient air pollution - O12: CairClipO3/NO2 of CAIRPOL (F)



J R C T E C H N I C A L R E P O R T S

Report of laboratory and in-situ validation of micro-sensor for monitoring ambient air pollution

O12: CairClipO3/NO2 of
CAIRPOL (F)

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Abstract:

The aim of this report is to evaluate and validate CairClipO3/NO2 sensors of CAIRPOL within laboratory and field tests under ambient/indoor air conditions corresponding to a specific micro-environment: traffic station, urban/suburban areas. This report presents the evaluation of the performances and determination of the the laboratory and field measurement uncertainty of the sensor values, compared to uncertainties fixed by the Data Quality Objective (DQO) of the European Air Quality

Directive for indicative method. Further, procedures for the calibration of sensors able to ensure full traceability of measurements of sensors to SI units is developed.

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