



SOP Number	Revision	Effective Date	Last Reviewed	Title	AMoN
AN - 0022	0.0	10/7/2008	10/7/2008	Determination of Passive Ammonia (Phenolate) by Flow Injection Analysis	

This method is applicable to the automated colorimetric determination of ammonium in extracts from the Radiello® passive diffusion gas samplers by reaction with phenate. The reactions are specific for the ammonium (NH₄⁺) ion. The applicable calibration range is 0.025-2.576 mg NH₄⁺/L with a method detection limit of 0.006 mg NH₄⁺/L. The purpose of the method is to analyze field samples from a research network of air monitoring sites for ambient ammonia.

SOP Number	Revision	Effective Date	Last Reviewed	Title	AMoN
AN - 4028	3.0	10/8/2013	10/8/2013	Extraction of Radiello® Passive Ammonia Diffusion Gas Samplers	

The purpose of the method is to prepare the samplers for analysis of passive ammonia by the Flow Injection Analysis (FIA). These samplers are taken from a research network of air monitoring sites for passive ammonia.

SOP Number	Revision	Effective Date	Last Reviewed	Title	AMoN
DA - 4065	0.0	4/22/2009	4/22/2009	Standard Definitions for AMoN Special Study Intercomparison Calculations	

The purpose of this document is to define the parameters, assumptions, and calculations used to compare ambient ammonia gas concentrations measured by the National Atmospheric Deposition Program (NADP) Ammonia Monitoring Network (AMoN) special study. This includes calculations for: University Research Glass (URG) annual denuders, Radiello™ type passive samplers (Sigma-Aldrich), Ogawa™ type passive samplers (Ogawa & Company), Adapted Low-cost Passive High Absorption passive samplers (ALPHA, United Kingdom Centre for Ecology & Hydrology, CEH). The definitions and calculations presented here are used in all data products for the NADP AMoN special study. The use of any trade names and trademarks is not meant to imply endorsement of any products.

SOP Number	Revision	Effective Date	Last Reviewed	Title	AMoN
PR - 4044	3.0	10/16/2013	10/16/2013	Preparation of Passive Ammonia Diffusion Samplers	

This method is applicable to the preparation of the passive ammonia diffusive sampler devices. This method is appropriate for the National Atmospheric Deposition Program (NADP) pilot monitoring project for monitoring spatial and temporal differences in passive ammonia.

SOP Number	Revision	Effective Date	Last Reviewed	Title	AMoN
SS - 4070	5.1	12/4/2013	12/4/2013	Monitoring Ambient Ammonia using Radiello-Type Passive Samplers	

This SOP is a manual that describes receipt, deployment, retrieval, and shipping of radiello™-type passive ammonia samplers for field site operators.

SOP Number	Revision	Effective Date	Last Reviewed	Title	AMoN
SS - 4080	0.0	4/15/2013	4/15/2013	Sample Shipping for AMoN	

This procedure provides a reference for sample shipping of supplies to National Atmospheric Deposition Program/Ammonia Monitoring Network (NAPD/AMoN) field sites from the Central Analytical Laboratory (CAL). This method is applicable to the handling samples associated with the bi-weekly sampling network (AMoN)

To request copies of procedures, contact the Central Analytical Laboratory:
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