Minet *et al*., *J. Environ. Monit*., 2011
DOI: 10.1039/c1em10289c

Electronic Supplementary Information documents

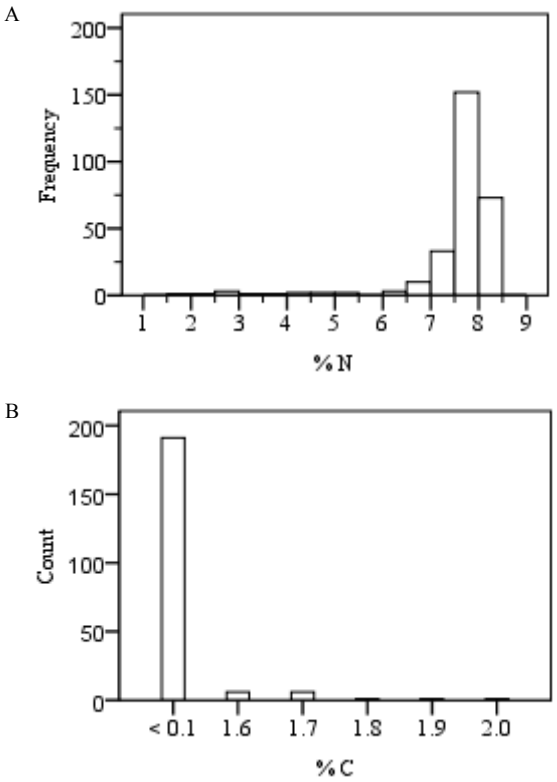

Figure 1 Distribution of A) % N (n = 284) and B) % C (n = 206) in AgNO3 samples prepared from groundwater and soil-water samples (adapted from Minet [8]).

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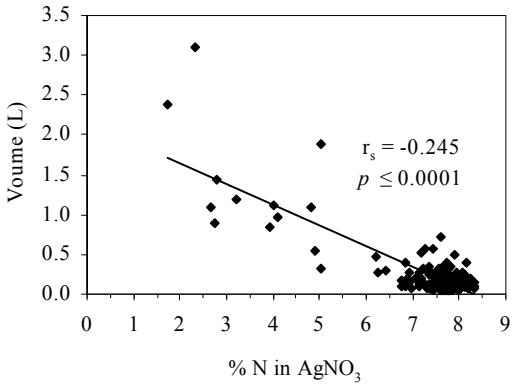

Figure 2 Variation of % N in AgNO3 samples (n = 284) with volume passed through the anion exchange resin (in L) in soil-water and groundwater samples (adapted from Minet [8]).

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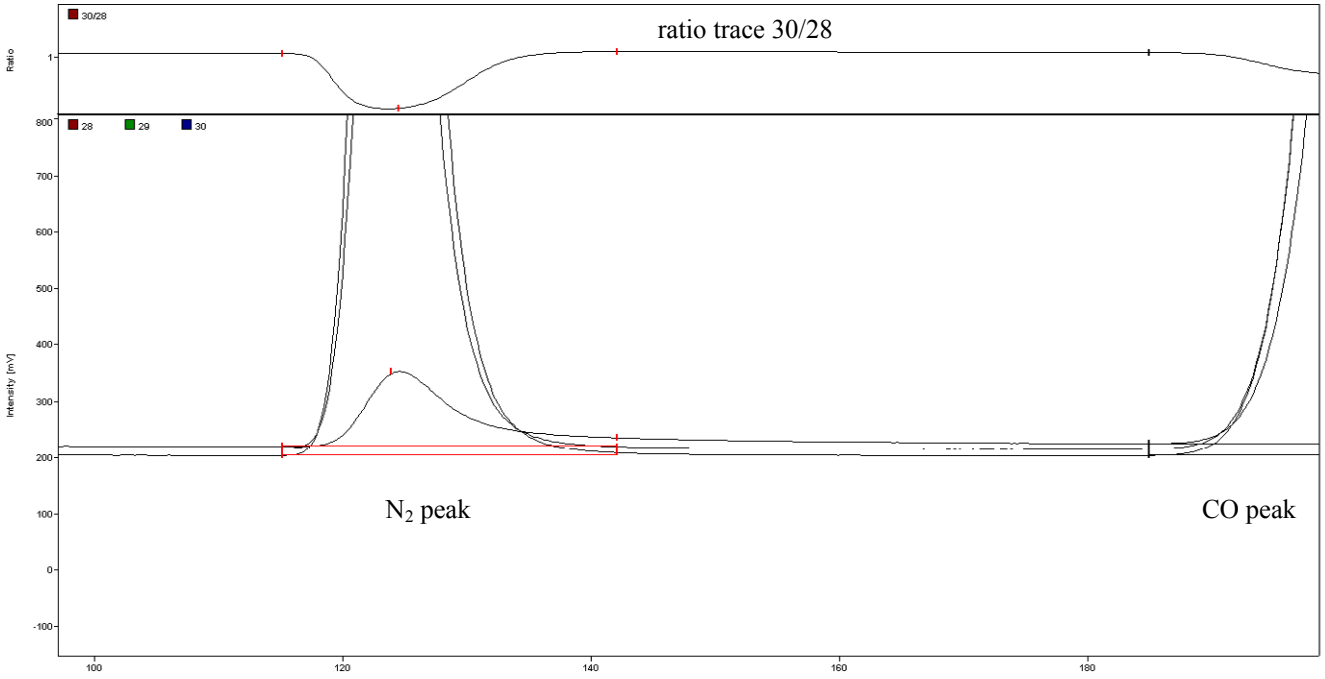

Figure 3 Enlarged chromatogram illustrating the separation between N_2 and CO peaks during $\delta^{18}O$ analysis of silver nitrate.

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Table 1 Comparison of $\delta^{15}N\text{-}NO_3^-$ and $\delta^{18}O\text{-}NO_3^-$ values measured by CF-IRMS between KNO_3 salts (*in italic*) and converted $AgNO_3$. ($\delta^{15}N$ and $\delta^{18}O$ in permil ‰ against AIR and V-SMOW respectively) (adapted from Minet [8]).

Type of material	$\delta^{15}N\text{-}NO_3^-$	$\delta^{18}O\text{-}NO_3^-$
KNO_3 (commercial product No.1)	*-20.4 ±0.2*	*13.4 ±0.9*
Converted in $AgNO_3$ (with Ag_2O batch 1)	-20.7 ±0.1	14.2 ±0.3
Converted in $AgNO_3$ (with Ag_2O batch 1)	-20.9 ±0.1	14.6 ±0.4
Converted in $AgNO_3$ (with Ag_2O batch 1)	-20.7 ±0.1	15 ±0.7
Converted in $AgNO_3$ * (with Ag_2O batch 3)	-20.3 ±0.2	14.8 ±1.3
Converted in $AgNO_3$ † (with Ag_2O batch 3)	-20.5 ±0.1	14 ±0.2
KNO_3 (commercial product No.2)	*-1.2 ±0.1*	*21.3 ±0.5*
Converted in $AgNO_3$ (with Ag_2O batch 2)	-1.2 ±0.1	20.4 ±0.6
Converted in $AgNO_3$ (with Ag_2O batch 2)	-1.1 ±0.1	21.3 ±0.2
KNO_3 (IAEA-NO-3 standard)	*4.8 ±0.1*	*25.7 ±0.2*
Converted in $AgNO_3$ (with Ag_2O batch 1)	4.1 ±0.2	25.4 ±0.7

* % N = 7.6 ±0.4

† % N = 7.8 ±0.1