

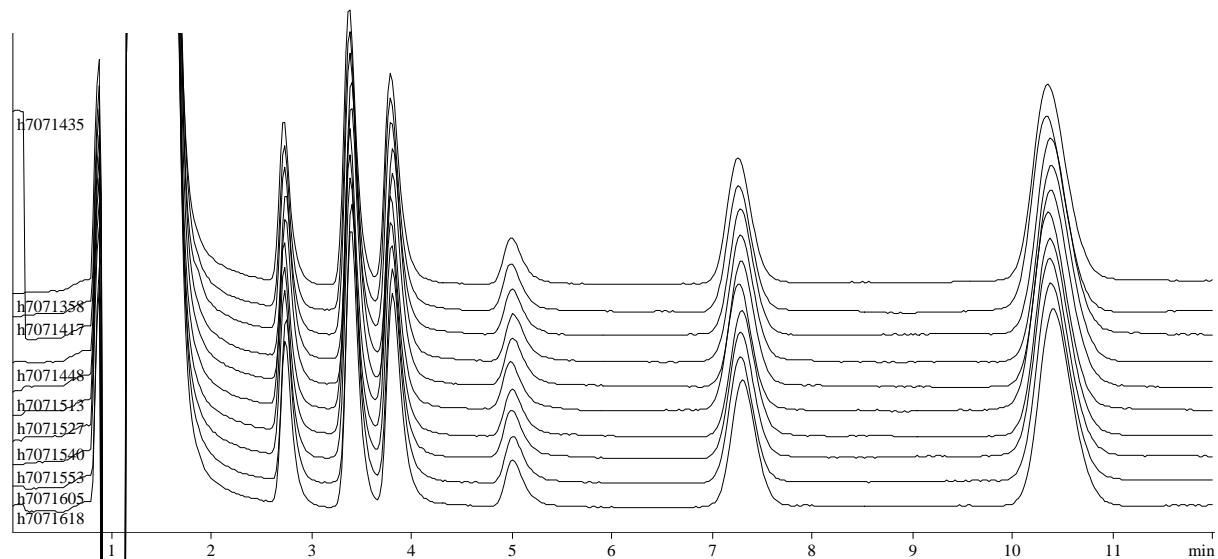
IC Application Note No. C-20

Title: Reproducibility of 10 injections in the ppb range on the Metrohm IC System

Summary: Reproducibility of lithium, sodium, ammonium, potassium, calcium and magnesium in the ppb range using cation chromatography with direct conductivity detection.

Sample: Standard solution
Sample Preparation:

Column: 6.1010.000 Metrosep Cation 1-2
Eluent: 4 mmol/L tartaric acid, 1 mmol/L dipicolinic acid
Flow: 1.0 mL/min
Injection Volume: 100 µL



Results:	Li ⁺	Na ⁺	NH ₄ ⁺	K ⁺	Ca ²⁺	Mg ²⁺
Concentration (µg/L)	20	150	125	100	150	150
Rel.std.dev. (% , n=10)	1.05	0.85	1.26	2.57	1.30	0.78