Ω Metrohm

IC Application Note No. O-40

Title:	**Borate in seawater**

Summary:	Determination of borate in seawater using ion exclusion chromatography with suppressed conductivity detection after Inline Matrix Elimination.

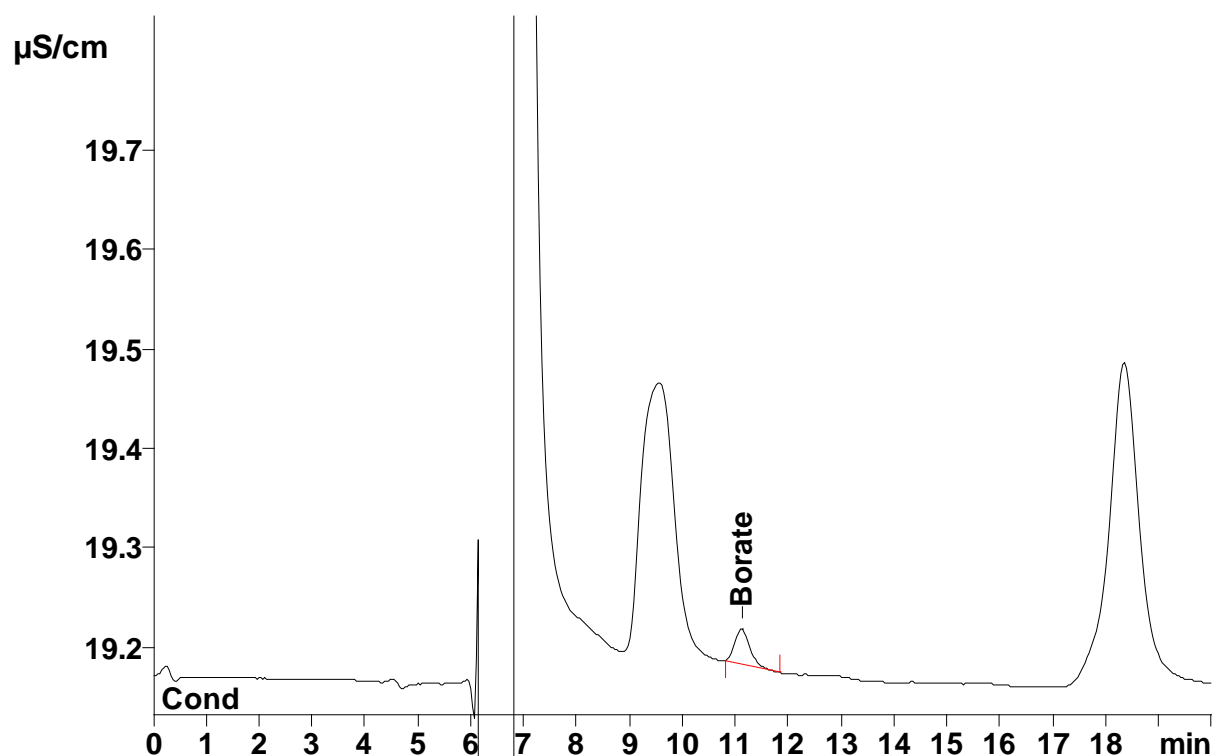| **Sample:**	Seawater
Sample Preparation:	Dilution 1:20 with ultrapure water, the borate is injected onto an Organic Acids Guard column, the matrix (mainly chloride) is washed from the column with ultrapure water.

Column:	6.1005.200 Metrosep Organic Acids – 250
Eluent:	0.2 mmol/L <u>perchloric acid</u> / 50 mmol/L mannitol
Suppressor:	Metrohm Suppressor Module (MSM, 100 mmol/L Li_2CO_3)
Flow:	0.6 mL/min
Injection Volume:	10 µL onto a 6.1005.250 Metrosep Organic Acids Guard

Results:	Borate as boron mg/L
	10.6