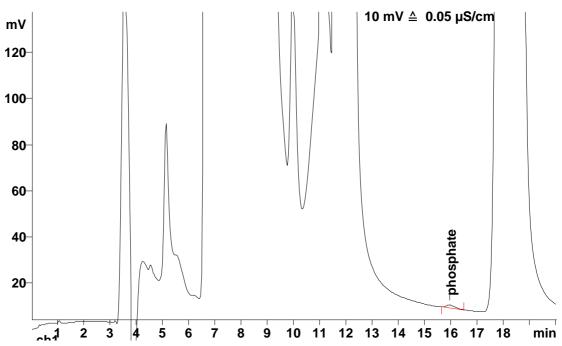
IC Application Note No. M-3

Title:	Phosphate in produced water applying IC/MS coupling after sample preparation by inline dialysis
Summary:	Determination of phosphate in produced water containing up to 100 g/L chloride as well as crude oil applying anion chromatography with conductivity and MS detection after inline dialysis.
Sample:	Produced water containing up to 100 g/L chloride as well as crude oil
Sample Preparation:	Dilution 1 : 50 in ultrapure water, cation exchange by H ⁺ cartridge and subsequent inline dialysis. Standards are prepared in 2 g/L sodium chloride
Column:	6.1006.520 Metrosep A Supp 5 – 150
Eluent:	3.2 mmol/L sodium carbonate 1.0 mmol/L sodium hydrogencarbonate
Suppressor:	Metrohm Suppressor Module (MSM, 50 mmol/L sulfuric acid)
Flow:	0.5 mL/min

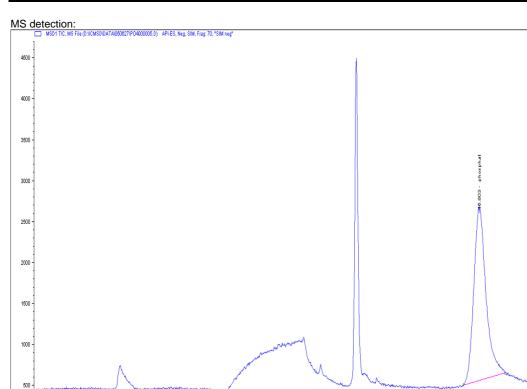
Conductivity detection:

Injection Volume:

100 µL



A Metrohm



	10 12.5 15 17.5 20min
Results:	Phosphate μg/L
	50.67