



Spiro TMD

Teflon[®] Membrane Desolvation

Spiro TMD

- Teflon[®] Membrane Desolvation

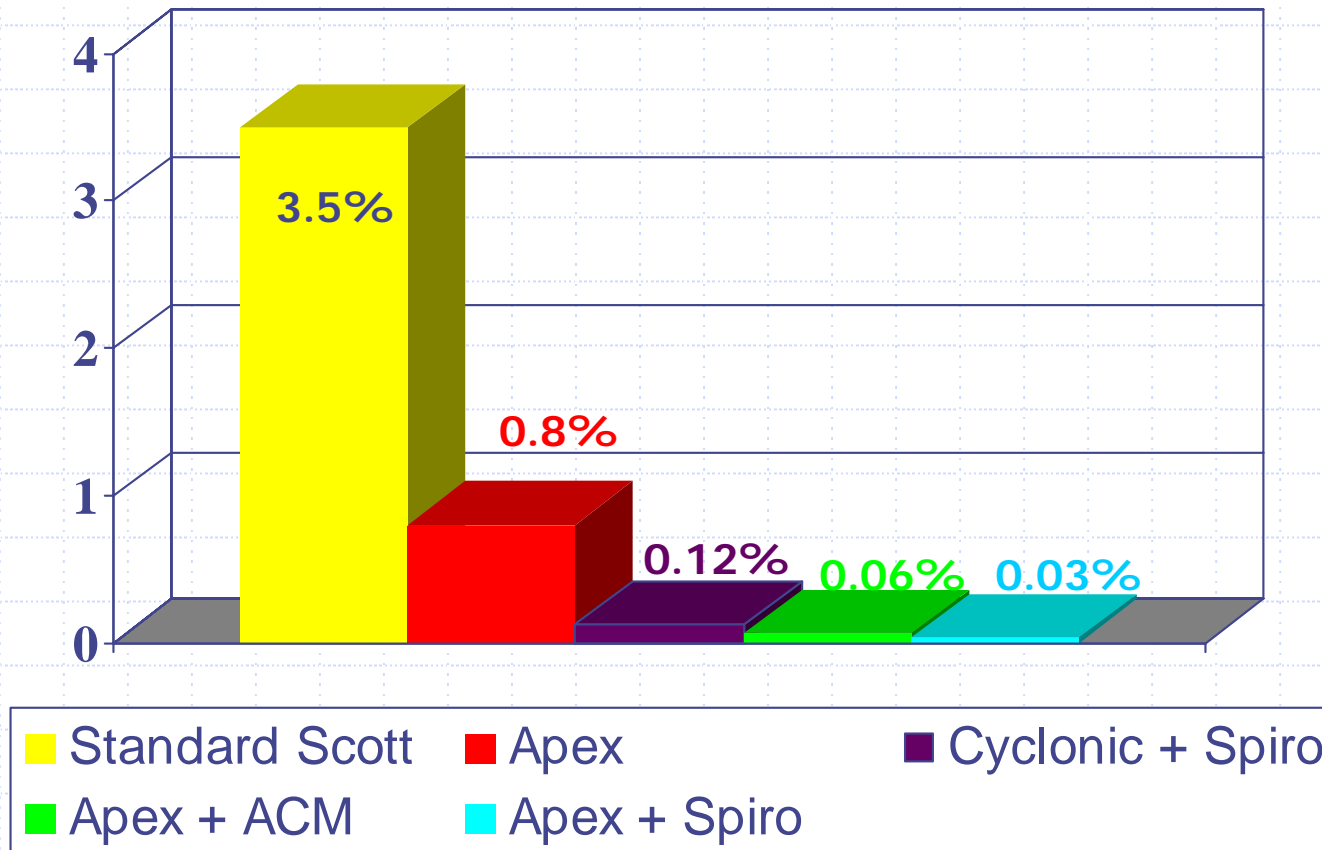


- ◆ Macro porous heated Teflon[®] membrane.
- ◆ Removes both organic and aqueous solvents.
- ◆ Can be used with or without the Apex.
- ◆ Tolerates high dissolved solids matrices.
- ◆ Simple membrane maintenance.





% CeO:Ce Ratio

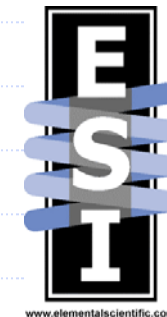


Thermo Element2 'H' Cones

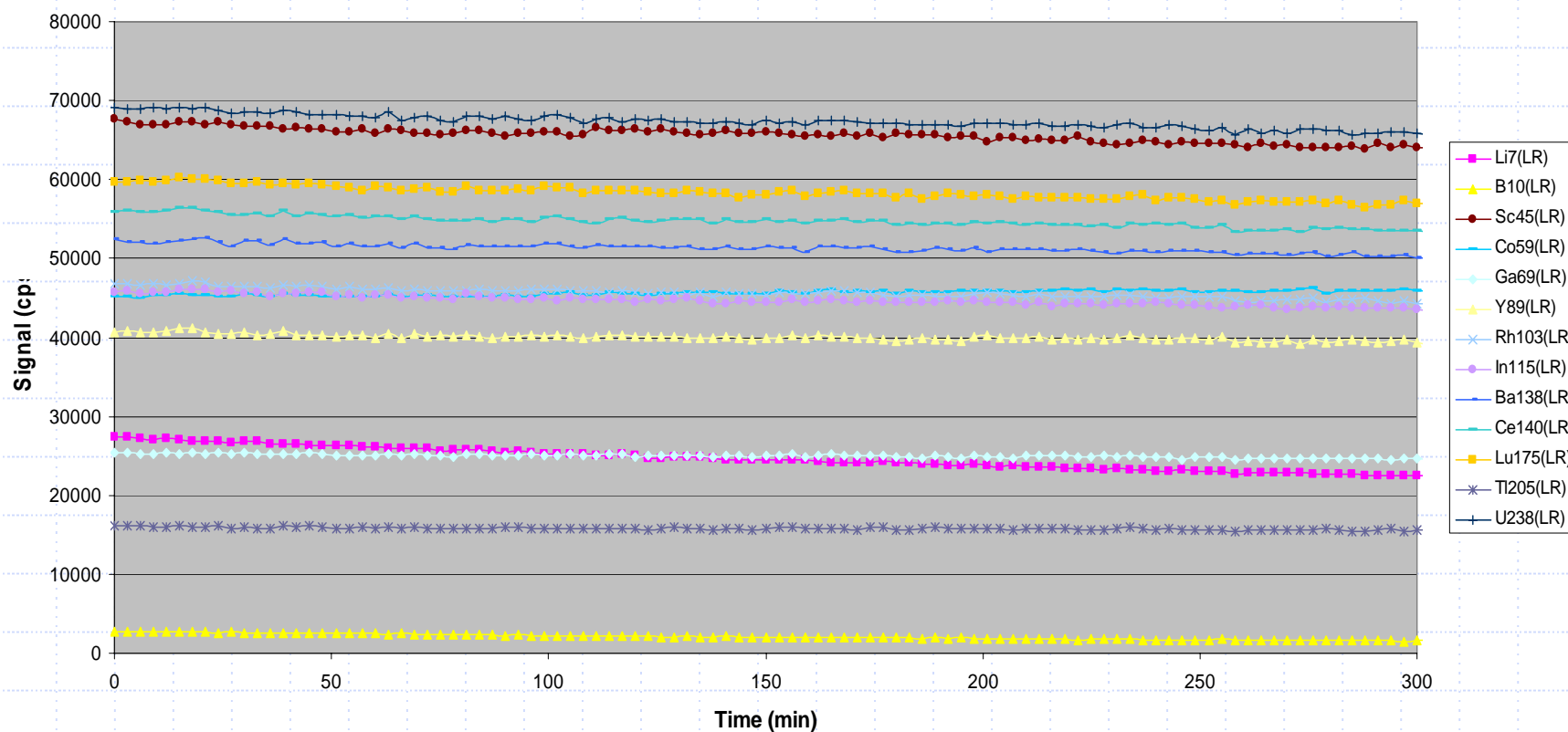


Cyclonic spray chamber with Spiro Desolvation

Multi-element Stability Study



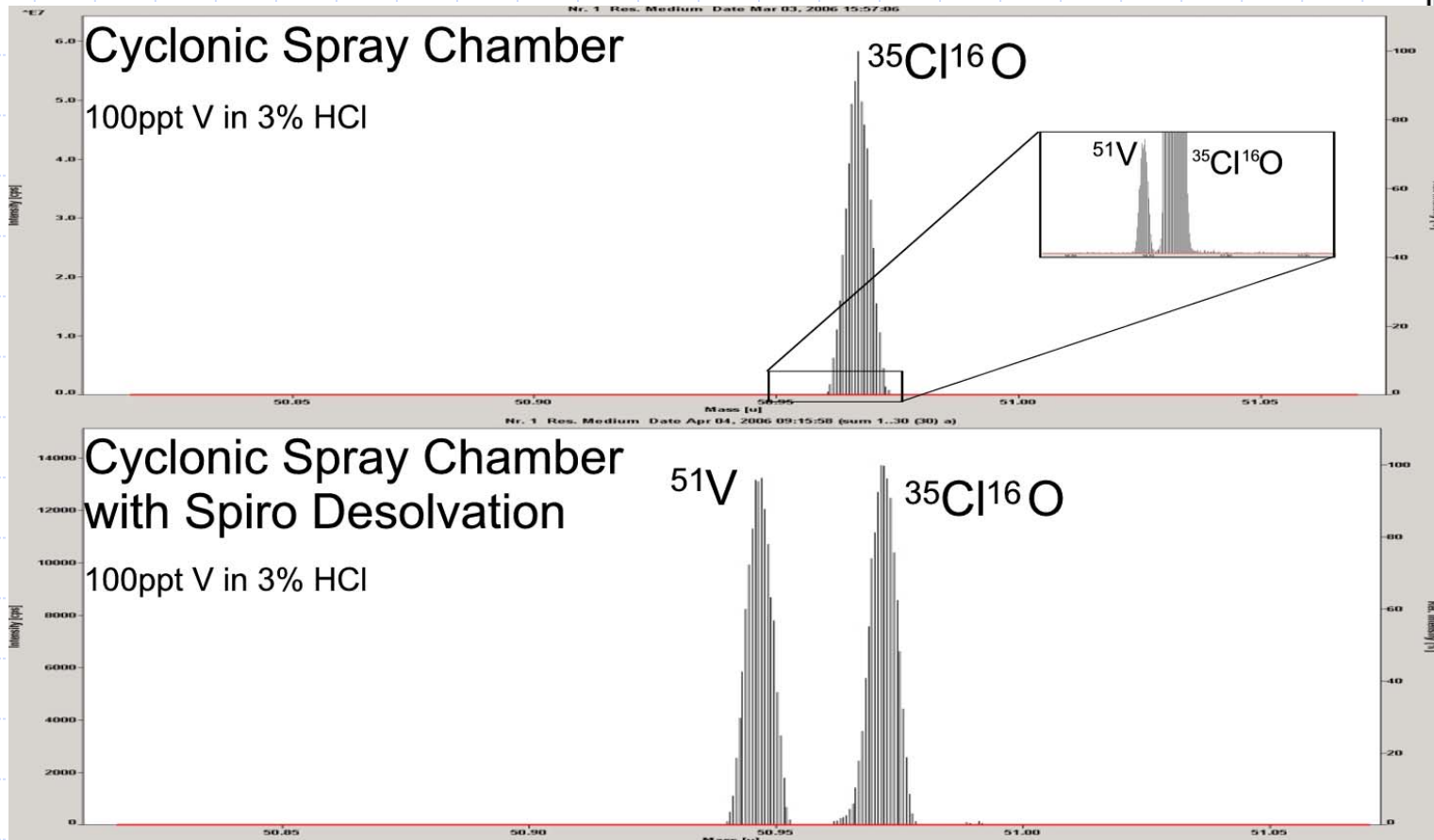
Spiro Stability Study: 100ppt Multielement spike.



PFA-100 with cyclonic spray chamber and Spiro

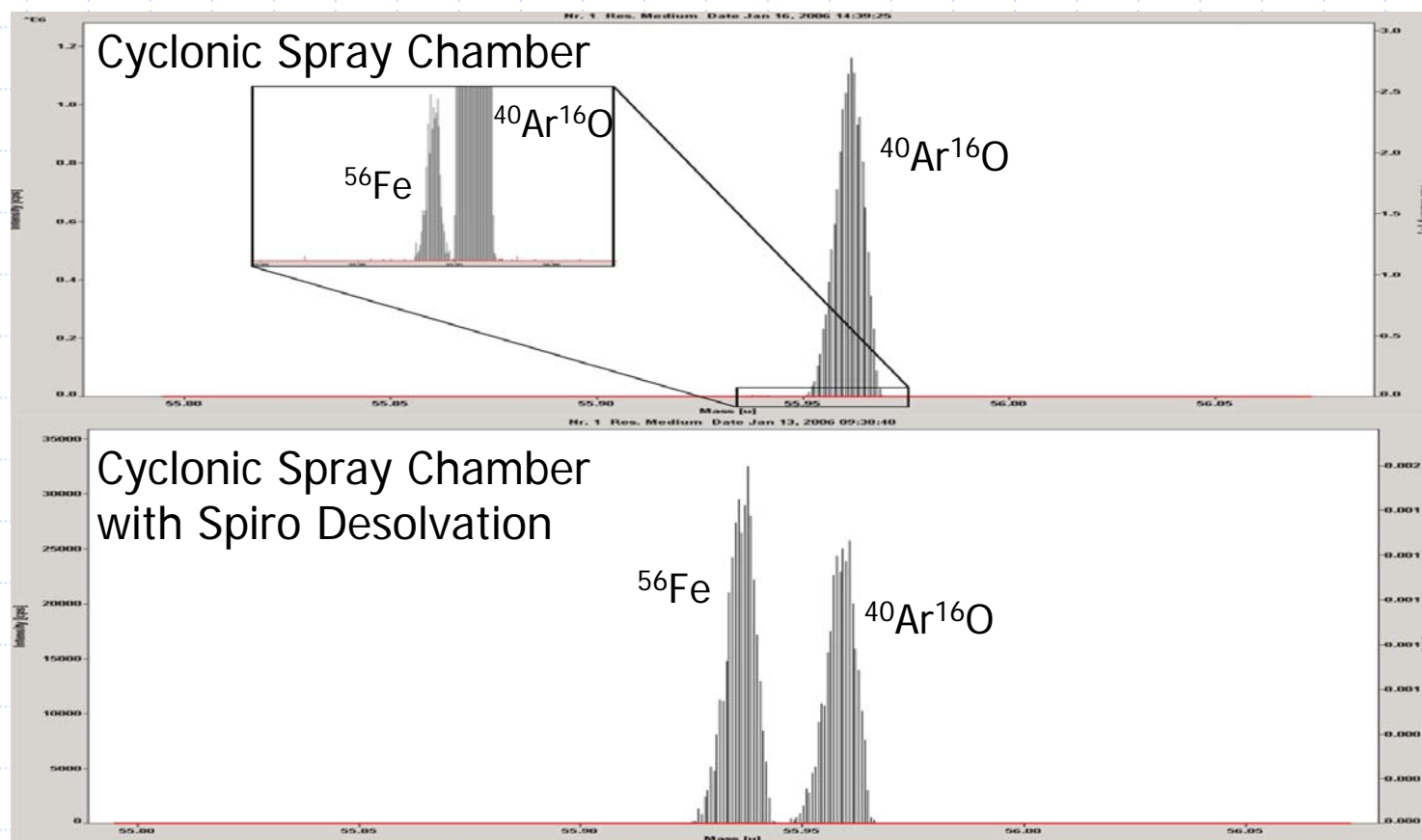
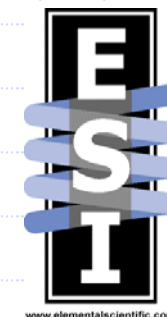
Spiro desolvation

- stand alone



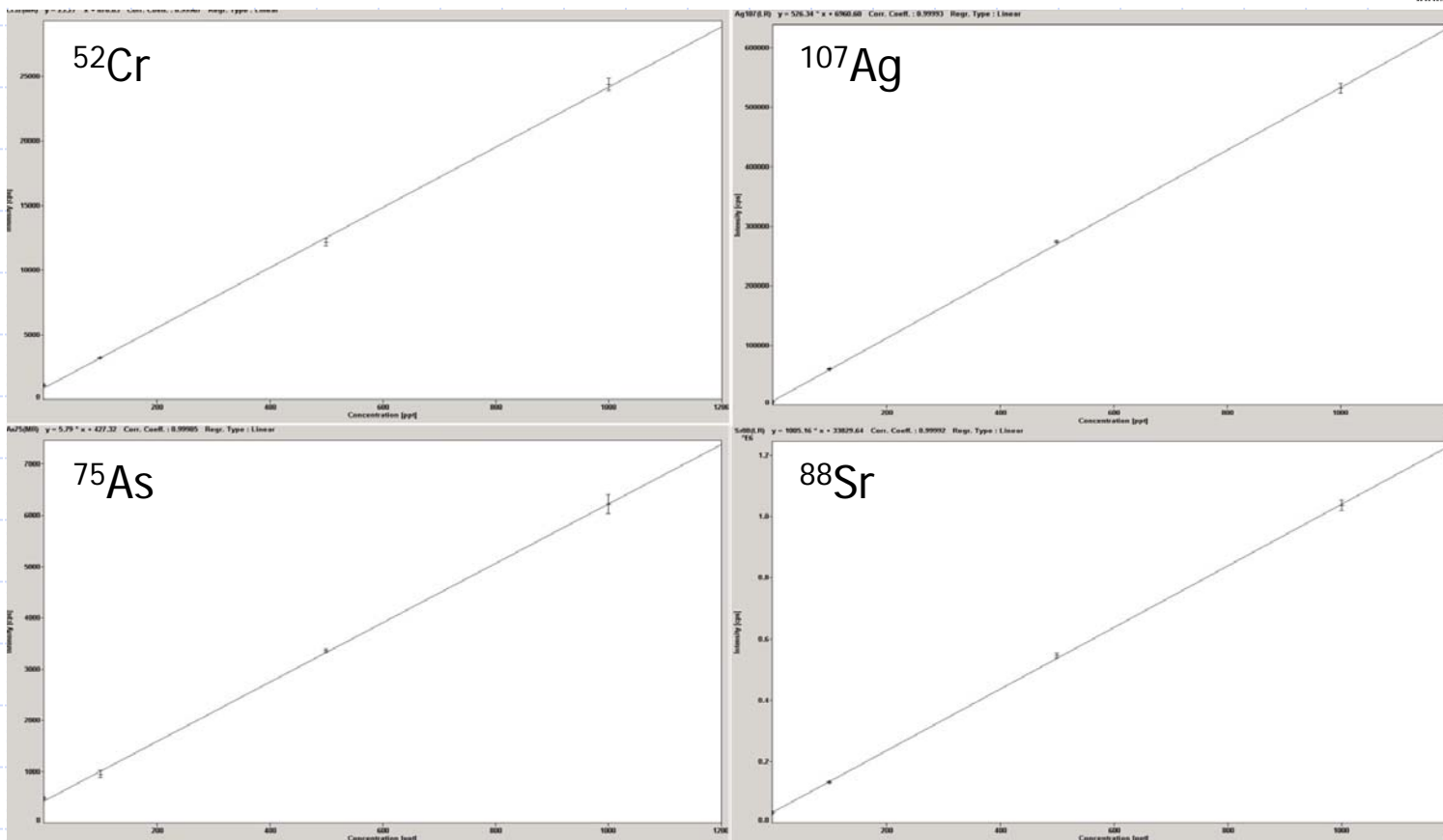
Dramatic reduction in acid matrix interferences

100ppt ^{56}Fe in 3% HNO_3



Cyclonic spray chamber with PFA-100

Multi-element calibrations in 98% Methanol



0 – 1000ppt Calibrations Element2

PFA-100 Cyclonic spray chamber with Spiro



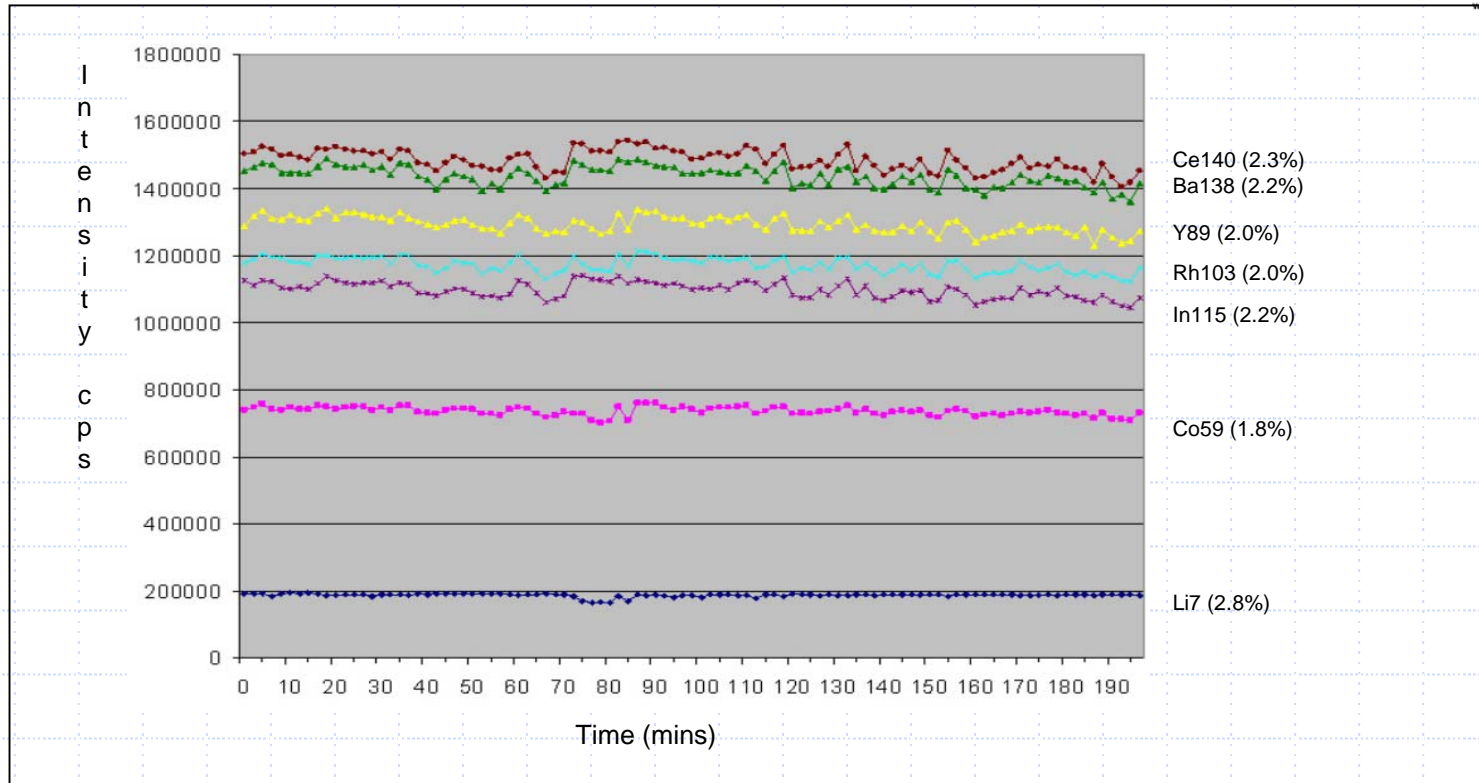
Apex Q with Spiro Desolvation

Spiro desolvation

- organic solvents



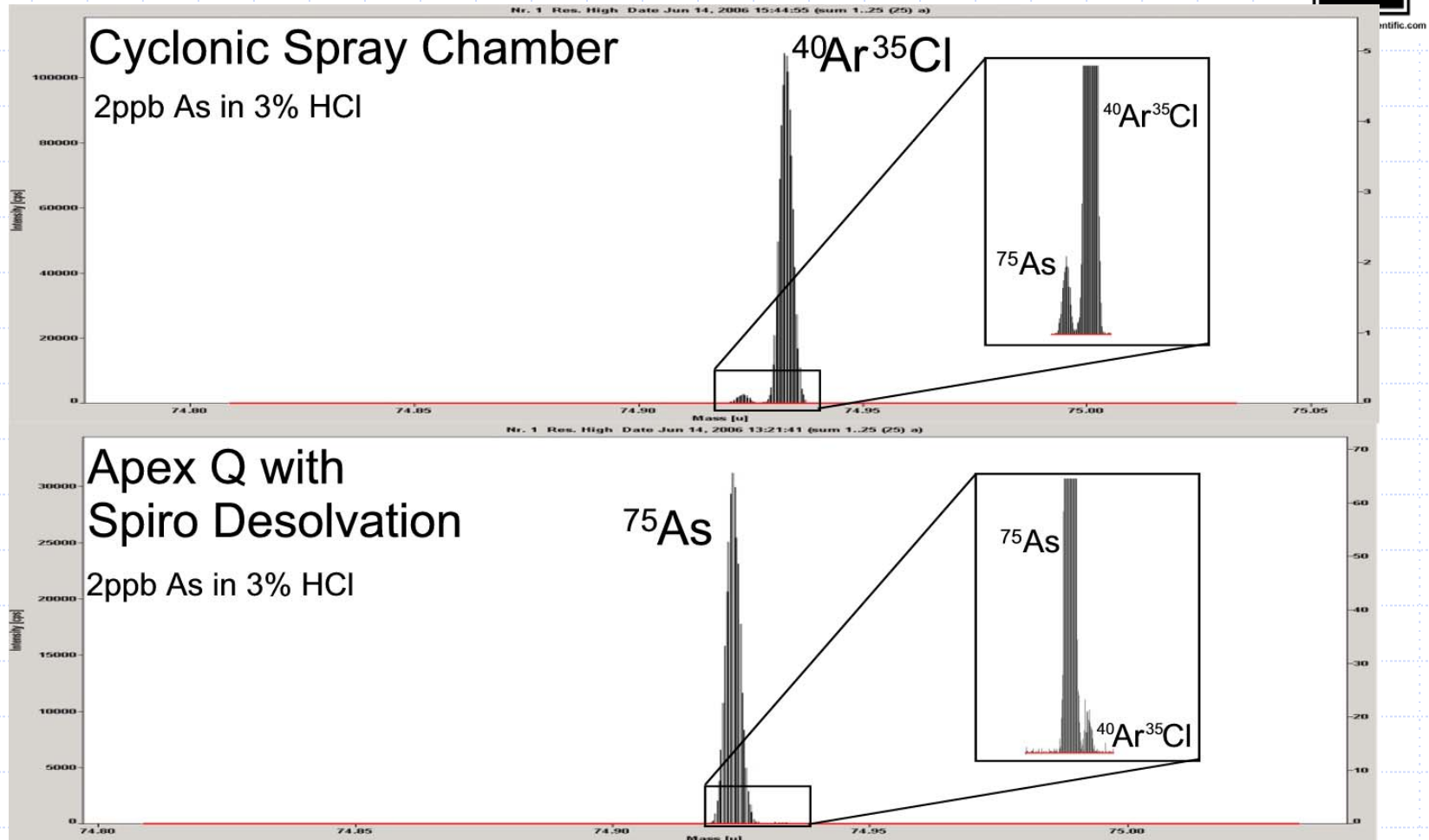
www.elementalscientific.com



3 Hour Signal Stability 98% Methanol Apex-Spiro TMD
HRICPMS

Spiro desolvation

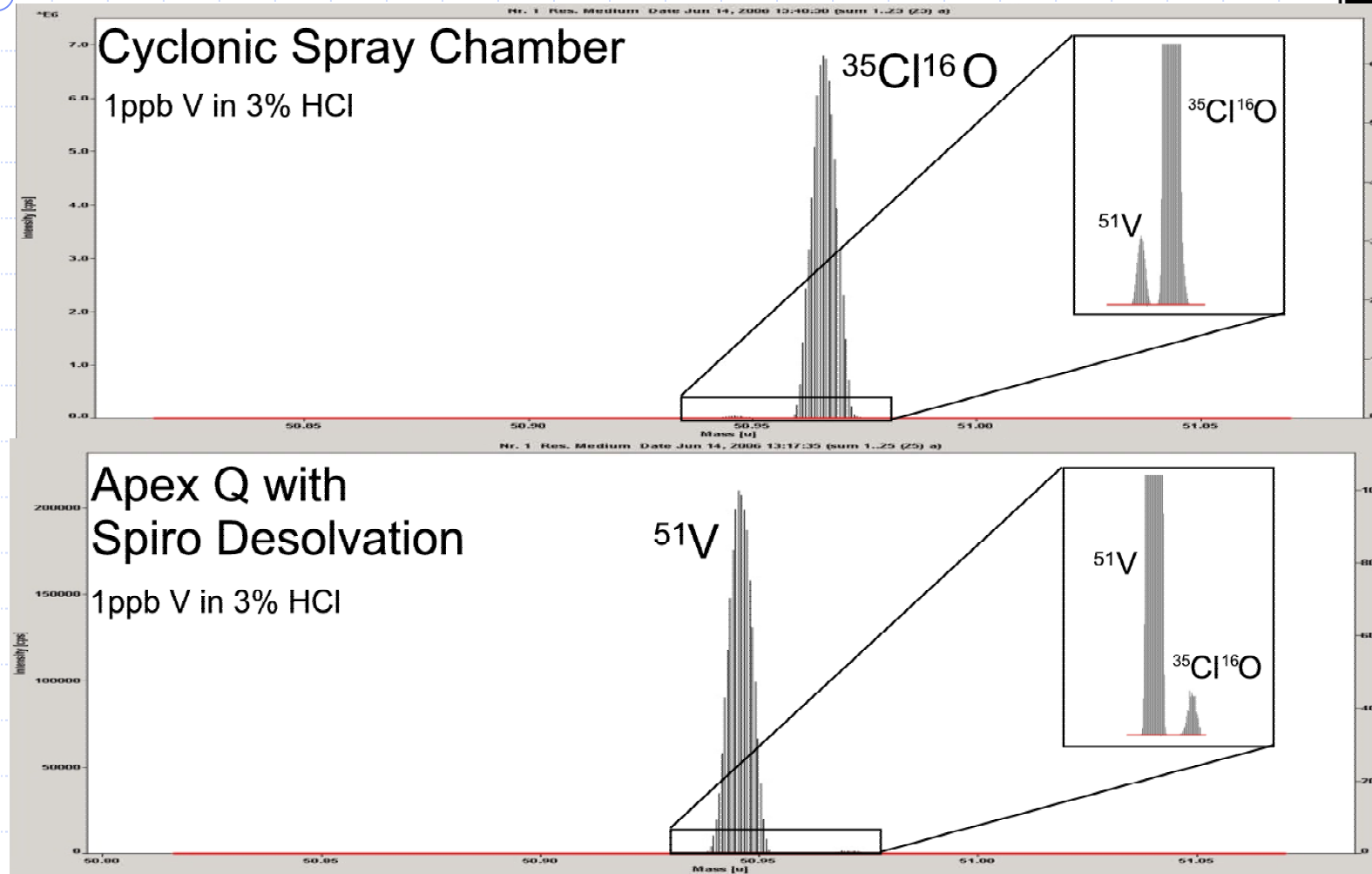
- acid matrix



Enhanced Sensitivity of As; Reduction of Cl interferences

Spiro desolvation

- acid matrix



Enhanced Sensitivity of V; Reduction of Cl interferences

Summary



- ◆ Can be used to de-solvate sample aerosol from simple cyclonic spray chamber introduction systems
- ◆ Enhance both analyte sensitivity and desolvation in combination with the Apex
- ◆ Removes both aqueous and organic solvent interferences
- ◆ Ideal for common HPLC solvents