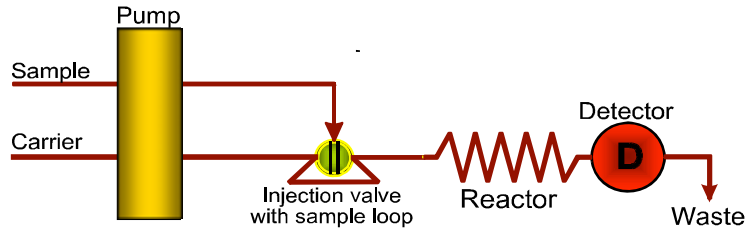


Flow Injection Analysis

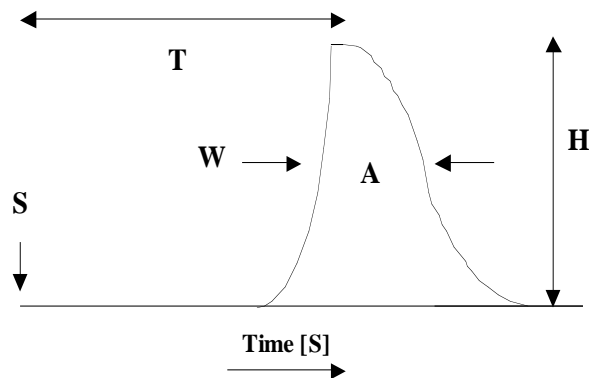
Flow Injection Analysis (FIA)



→ Spectrophotometric – Nutrients

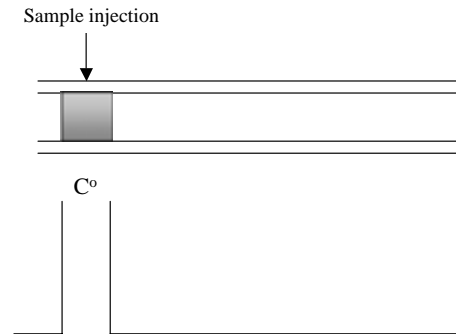
→ Chemiluminescence – Trace Metals (e.g. dFe)

Flow Injection Analysis

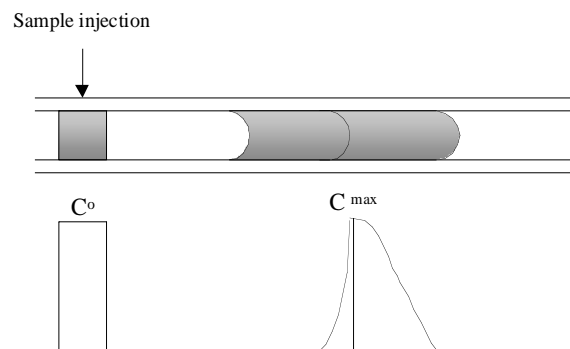


Typical FI detection response output: S is sample injection; W is peak width; A is peak areas; H is peak height and T is residence time.

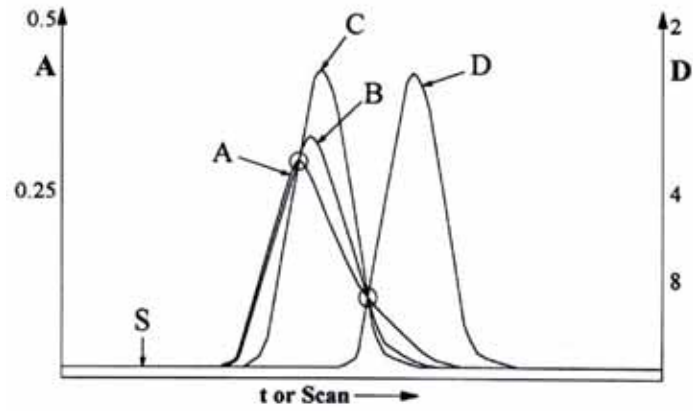
Flow Injection Analysis



Flow Injection Analysis



Flow Injection Analysis



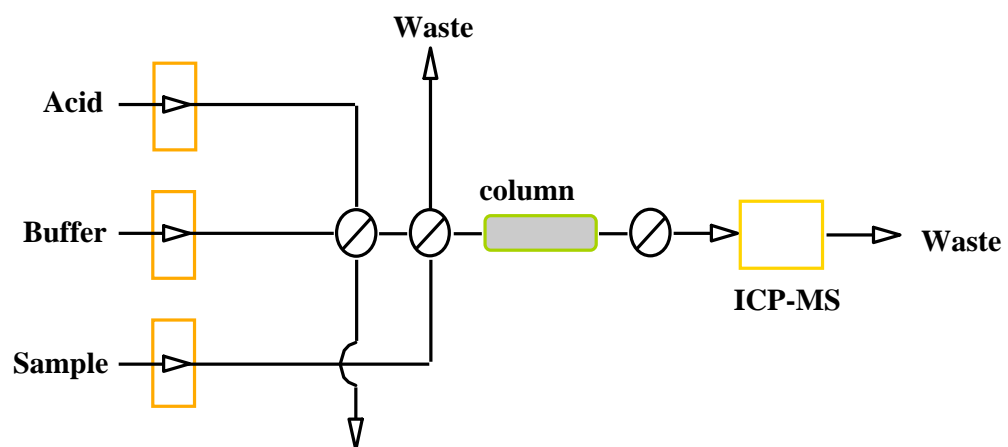
Flow Injection Analysis



Flow Injection Analysis



Flow Injection Analysis

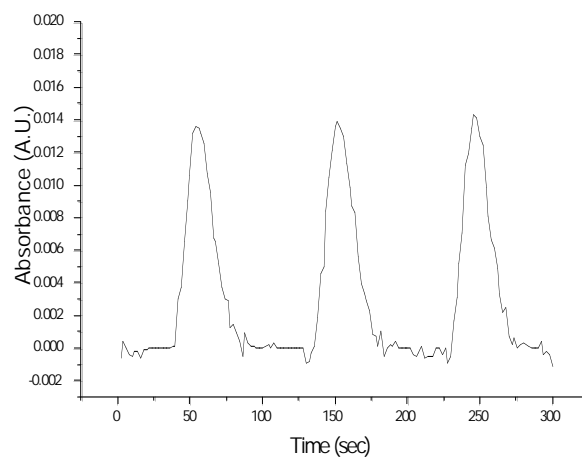


Flow Injection Analysis

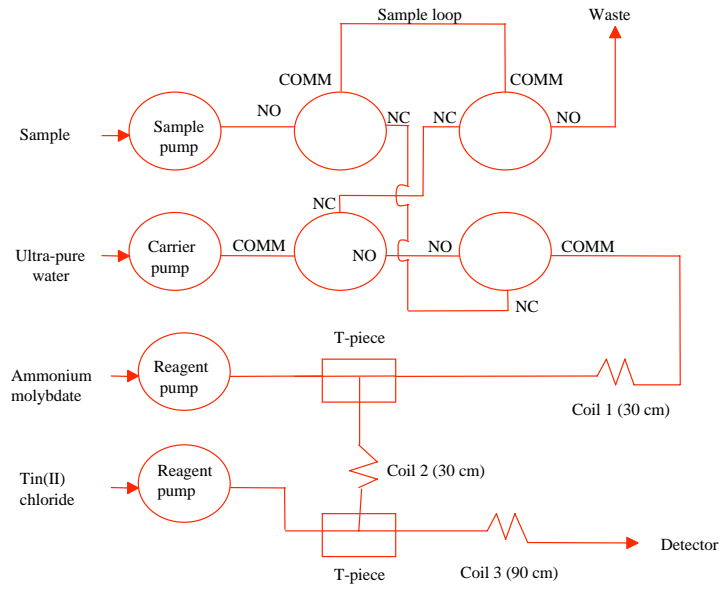


Flow Injection Analysis

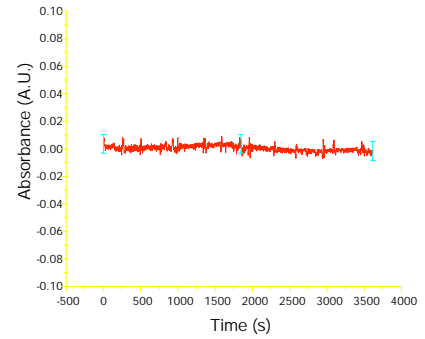
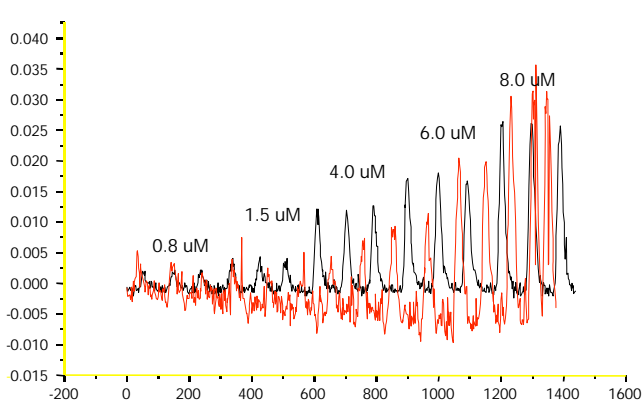
Reproducibility



Flow Injection Analysis



Flow Injection Analysis



- $r^2 = 0.998$

- LOD = 0.67 $\mu\text{M PO}_4\text{-P}$

- Linear Range = 0.8 - 50 μM

- Sample throughput = 40 samples h^{-1}