

# Direct Sampling Ion Trap Mass Spectrometry (DSITMS): Monitoring in the Field



- Purpose: Ion trap mass spectrometry with direct sampling interfaces has been developed to perform very rapid (few minutes/sample) and sensitive (ppb) analyses in the field of volatile organic pollutants in air, water, soil, and soil gases. Sample throughput is vastly greater with much lower costs and turn-around time versus lab-based monitoring. QA/QC is actually increased.
- Status:
  - DSITMS method 8265 is part of the U.S. EPA SW846 manual.
  - SVOA and PCB methods are under development.
- Tri-Corders Environmental (exclusive licensee of technology) has saved DoD millions of money in environmental characterization by in-field analyses using DSITMS.
- Sponsors: U.S. DOE EM and U.S. Army Environmental Center.
- PI: Marc Wise