

Mercury Speciation in Mexico City

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Sources of Atmospheric Mercury

- Anthropogenic
 - Coal and Oil Fired Power Plants
 - Municipal Solid Waste Incinerators (MSW)
 - Bio-mass Burning
 - Numerous Smaller Sources
- Natural
 - Volcanic Activity

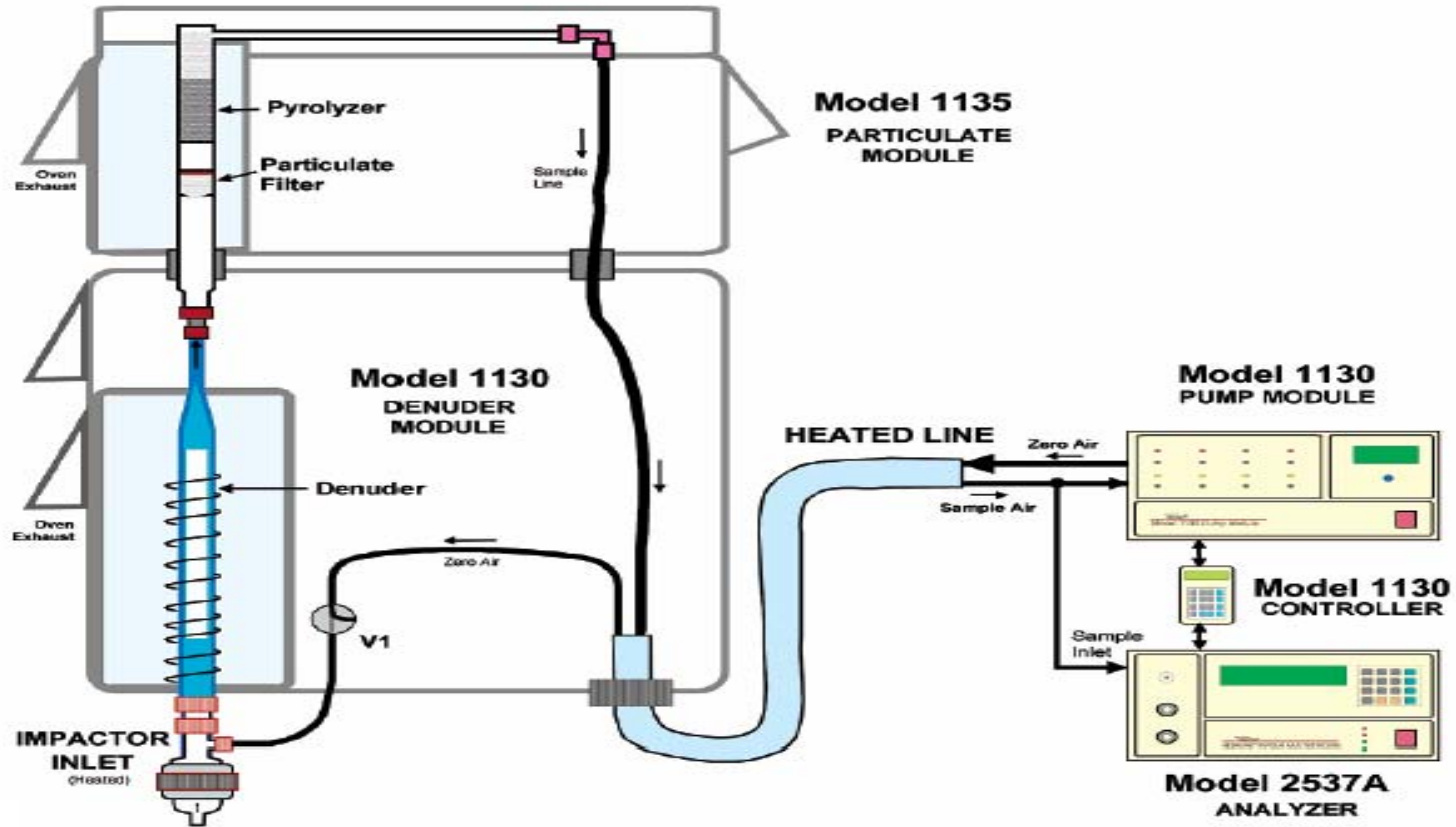


Mercury Species

- Elemental Hg
 - Most prevalent in the atmosphere (~%90+)
 - Long residence time (~1 yr)
 - Global Background ~ 1 to 2 ng/m³
 - Very Low Water Solubility
- Divalent or Reactive Species
 - Shorter Residence Time
 - Typical Concentrations in pg/m³
 - Vastly Greater Water Solubility vs Hg⁰
 - Reactive Gaseous Hg (RGM)
 - Particulate Hg (Hg_p)



Tekran Hg Speciation Monitor



MILAGRO – Hg Measurements

