

Instruments

- 1) MAT 253 gas source stable isotope ratio mass spectrometer (IRMS) for analysis of SF₆ quadruple sulfur isotope composition in (Thermo Scientific).
- 2) Fluorination line for conversion of Ag₂S to SF₆ (under construction).
- 3) Trace 1300 gas chromatograph with thermal conductivity detector (GC-TCD), part of fluorination line (Thermo Scientific).
- 4) 1260 Infinity high-performance liquid chromatograph (HPLC) with quaternary pump, auto sampler, multiple wavelength UV-visible detector, fluorescence detector, and fraction collector (Agilent Technologies).
- 5) Hydrogen sulfide reduction-distillation 6-fold line for conversion of sedimentary sulfur species to ZnS or Ag₂S.