

# Dual Channel Modified Flame Photometric Detector Analyzer for Trace Sulfur in Monomers 2310-0148

## Technical Overview

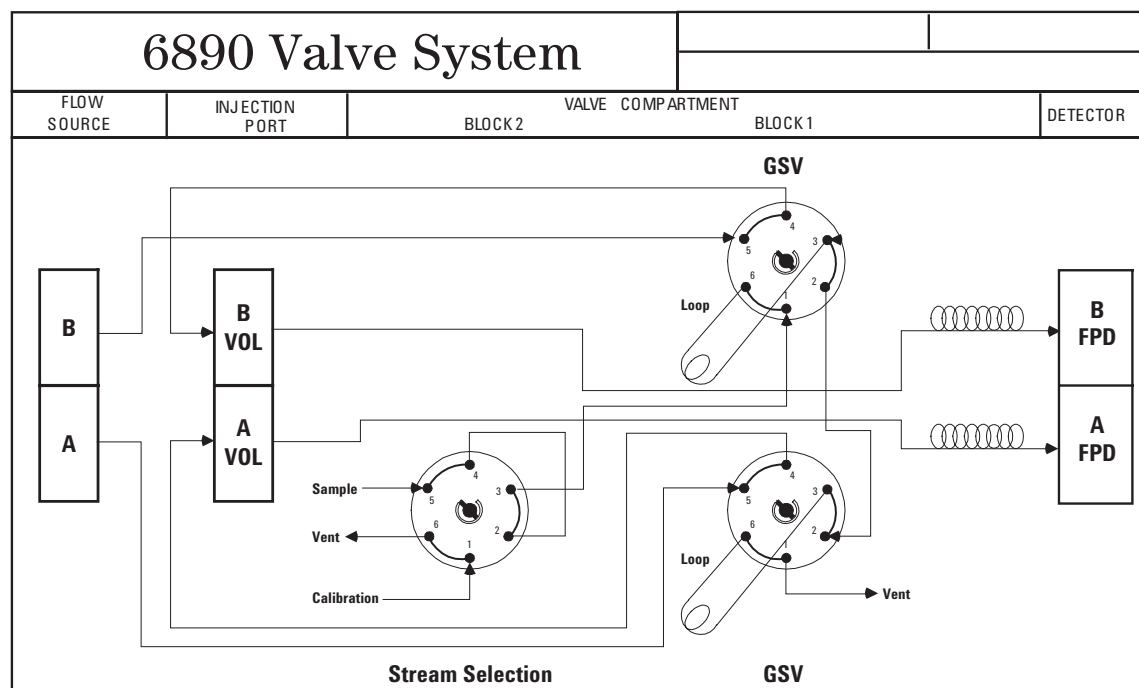
### Application Highlights

- SP1 2310-0148 is one of two similar specials for trace analysis of sulfur, arsine and phosphine in gaseous fuels. This 0148 configuration is set up for analysis of polymer grade ethylene, propylene, and C4 streams.
- Hardware is supplied that will enable sulfur compounds as well as arsine and phosphine to be determined using two different columns. Detection limits are 10 ppb for sulfur and phosphine and 60 ppb for arsine.
- GC must have two volatile inlets (142), two flame photometric detectors (FPD) (240) and electronic pneumatics control (EPC) module (301). ChemStation is recommended.

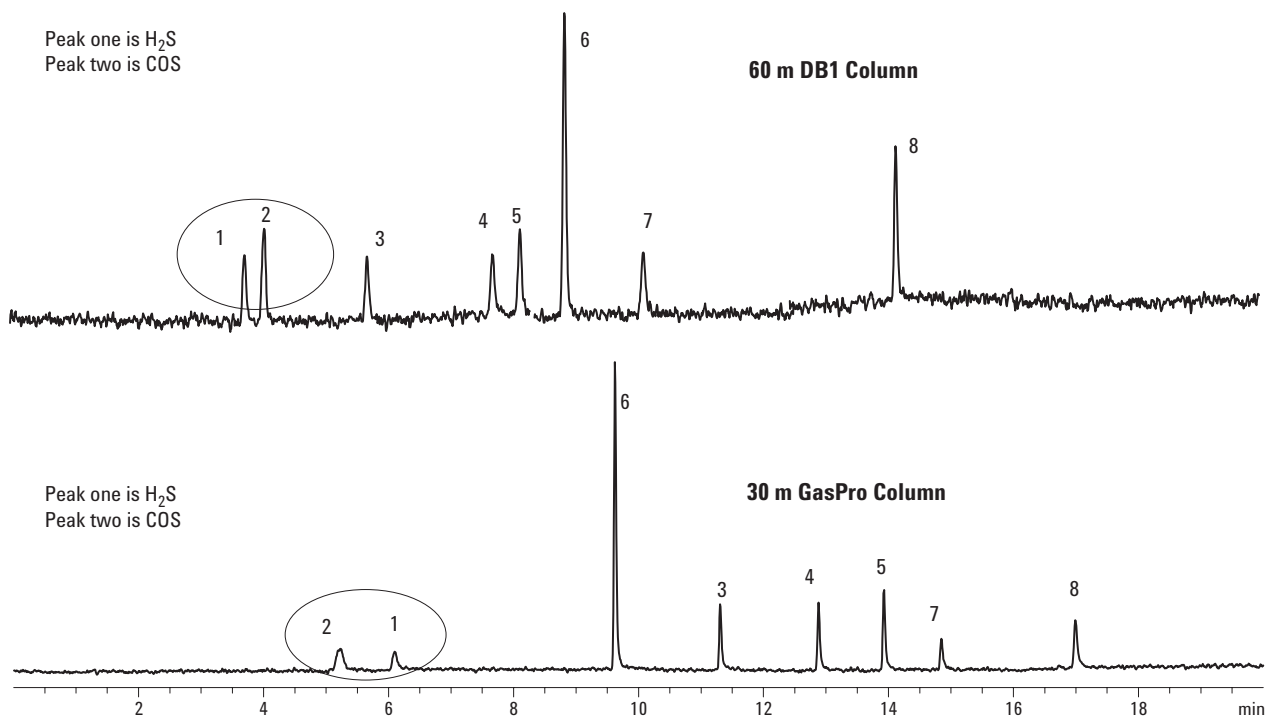
- Special includes (installed) one stream selection and two gas sampling valves (Hastelloy C), two columns, system passivation with SilcoSteel® and or Sulfinert™, and two modification kits for the FPDs.

### For More Information

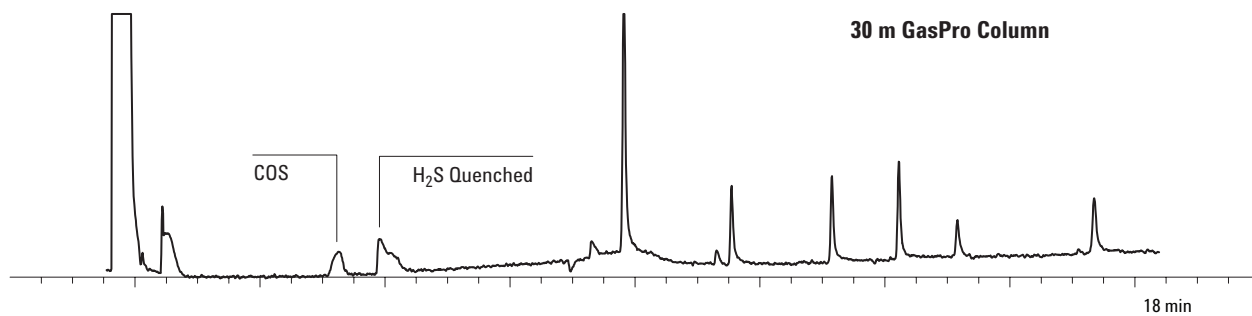
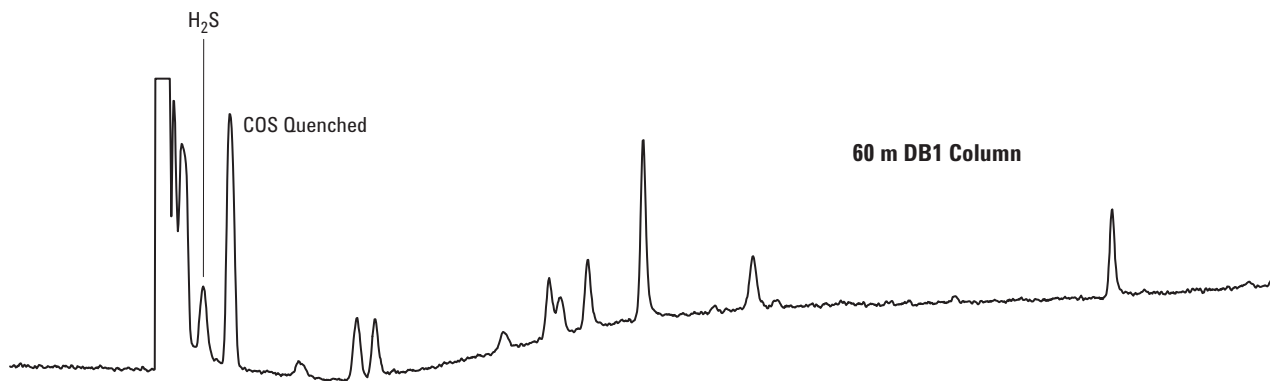
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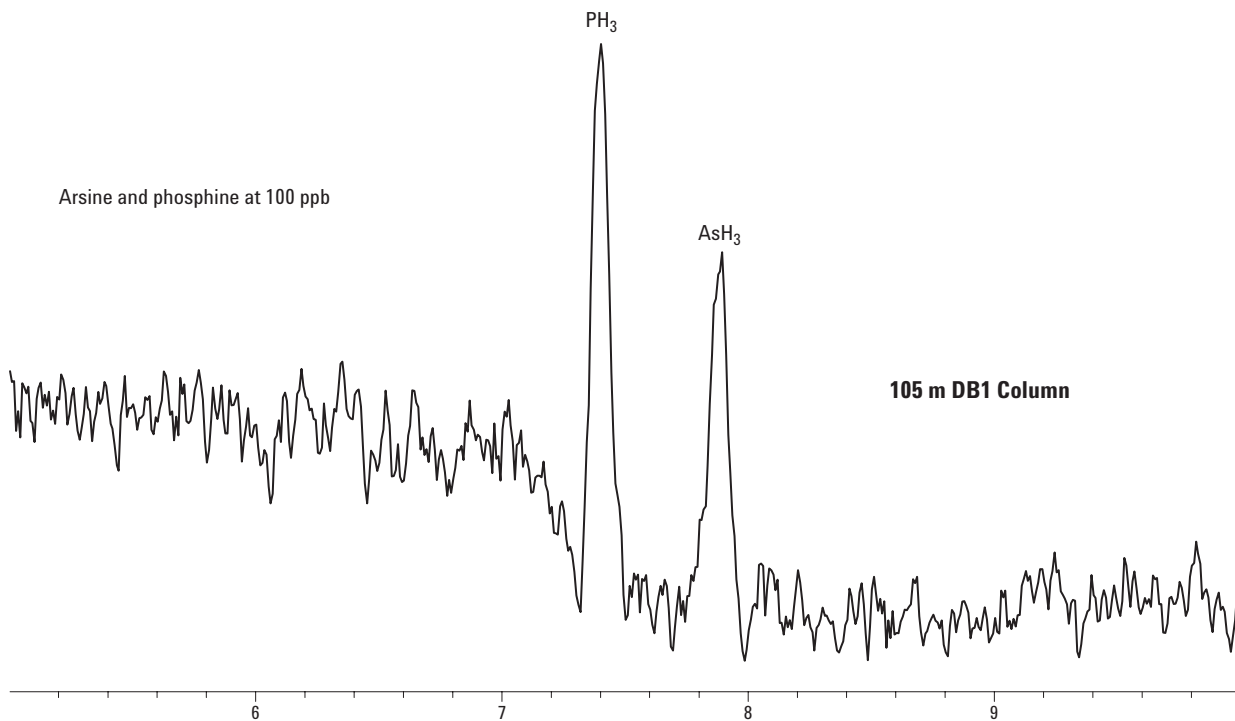
Chromatographic example one: Differences in selectivity allow Agilent to easily quantify light sulfurs despite hydrocarbon interference. Compounds lost on one column are analyzed on the second column with a single injection. Observe elution order change for hydrogen sulfide and carbonyl sulfide.



Chromatographic example two: Demonstrates hydrocarbon quenching by C3s and the solution strategy of chromatographic selectivity.



Chromatographic example three: Arsine and phosphine can also be detected with the same hardware configuration.



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