HRVOC GC System

HRVOC = **Highly Reactive Volatile Organic Compounds**

The HRVOC GC system is designed for ethylene, propylene, 1,3-butadiene and butenes. which play a role in rapid ozone formation.



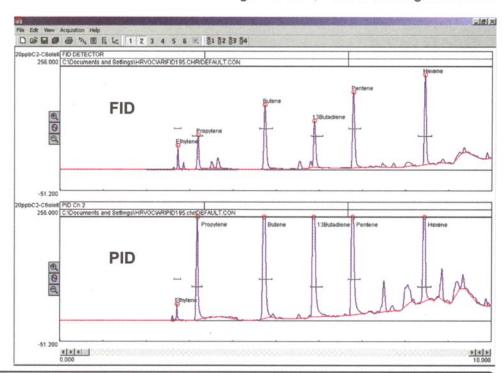
- Sample Dryer
- CryoCooled Peltier Trap
- 10-port Gas Sampling Valve
- Flame Ionization Detector (FID)
- 50 Meter RTX Alumina Column
- 1 Channel PeakSimple Data System
- · Built-in "whisper quiet" Air Compressor
- Optional Online Liquid Membrane Sampler/Sparger ...on the compact 8610C chassis

The HRVOC GC system is designed for analytes recently targeted by the Texas Commission on Environmental Quality (TCEQ). Ethylene, propylene, 1,3-butadiene and butenes have been found to contribute to

high ozone observed in the Houston area. It is believed that substantial emission reductions of these four compounds are likely to have a high impact on the rapid ozone formation and transient high ozone in the area. To that end, the TCEQ requires that facilities in the Houston/Galveston area with a vent gas stream, flare or cooling tower heat

exchange system that emits HRVOCs (or has the potential to emit HRVOCs) continuously monitor their systems for composition and flow.

The chromatograms shown at right are from an SRI HRVOC GC system equipped with FID and PID detectors. The sample was 20ppb C₂-C₆ olefins + 1,3-butadiene. The sample gas stream was trapped with the CryoCooled Peltier trap at -10°C for 20 minutes.



8610-5800

HRVOC GC System

8610-5810

HRVOC GC with optional PID Detector and 4 channel data system

8690-0087

Online membrane sampler and sparger for cooling tower water



OPTIONS & UPGRADES: additional detectors with 4 channel serial or 6 channel USB PeakSimple data system, split/splitless and PTV injectors. (VOLTAGE: for 110VAC, use "part number-1" [ex: 8610-5800-1] for 220VAC, use "part number-2")

Preconfigured GC Systems

