

HRVOC GC System

HRVOC = Highly Reactive Volatile Organic Compounds

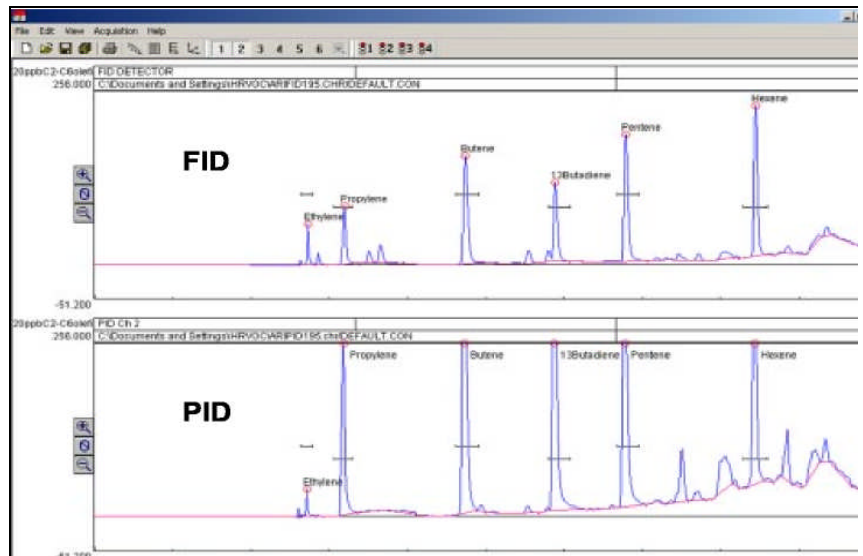
The **HRVOC GC** system is designed for ethylene, propylene, 1,3-butadiene, and butanes at ppB levels. *These photo-chemically active compounds play a role in rapid ozone formation in the atmosphere!*



- **Sample Dryer**
- **Cryo-Cooled Peltier Trap (-10°C)**
- **10-port Gas Sampling Valve**
- **Flame Ionization Detector (FID)**
- **50-Meter RTX Alumina PLOT 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 transient 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 **CryoCooler Peltier** trap at -10°C for 20 minutes.



8610-5800	HRVOC GC System	USD\$14,995.00
8610-5810	HRVOC GC with optional PID Detector and 4 channel data system	\$19,490.00
8690-0087	Online membrane sampler and sparger for cooling tower water	\$ 3,495.00

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”)