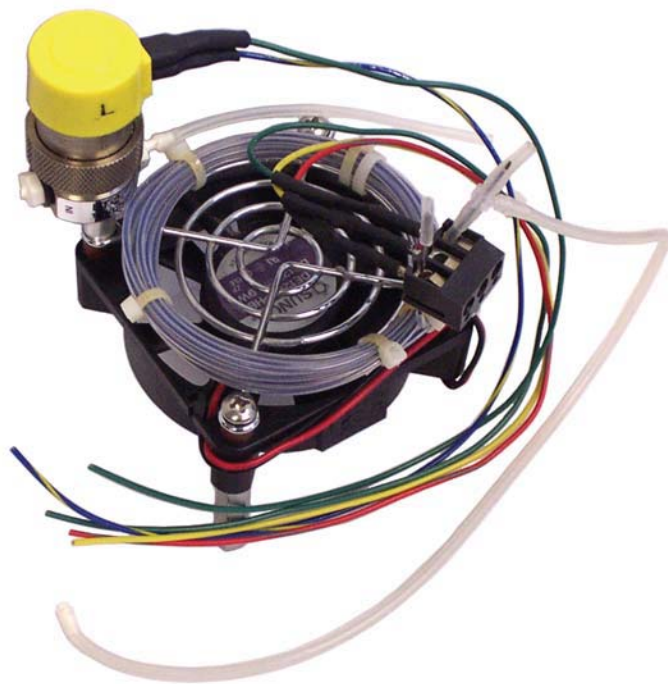


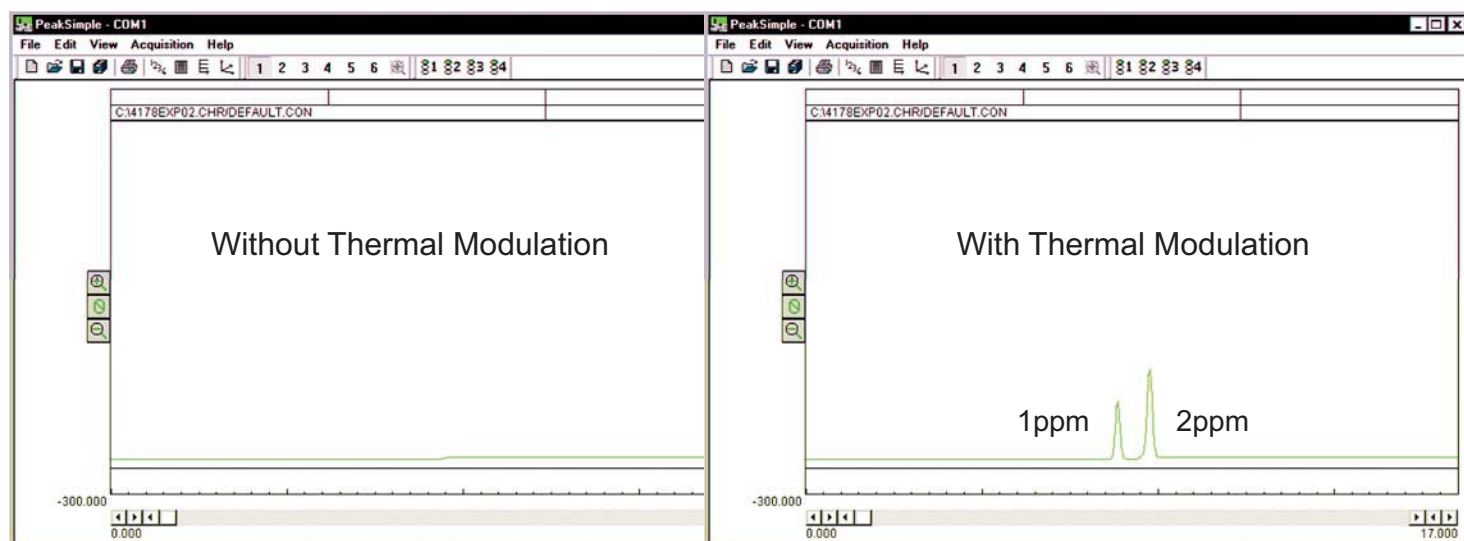
Enrichment Coils

- *For nonchromatographic Stream Monitoring Applications*
- *Thermal Modulation of gas samples for Lower Detection limits*
- *Fit up to 4 Enrichment Coils in an 8610C Column Oven or on a Model 110 Detector chassis*

Enrichment coils use thermal modulation to enrich gas samples for quantifiable peaks. Consisting of a length of resistively heated wide bore capillary column, they can be used in a GC column oven or on a Model 110 detector chassis for nonchromatographic stream monitoring applications. Thermal modulation causes many analytes like toluene to adsorb on the enrichment coil until it is saturated and reaches equilibrium, usually a matter of seconds. Upon heating, the analytes desorb from the enrichment coil, producing a peak which can be easily measured, rather than a barely discernable shift in baseline level.



The chromatograms below show a nonchromatographic monitoring of a stream. In the first chromatogram, a slight baseline shift is the only clue that the concentration of the stream has changed. With the enrichment coil, the shift between 1ppm and 2ppm concentrations becomes obvious.



8690-0091

Enrichment coil