

Gas chromatograph with TCD/FID

Description/Parameters

The device consists of the TURBOMATRIX 300 thermal desorption (TD) unit (PerkinElmer) directly connected to a GC 7890A chromatograph (Agilent) with MSD 5879 mass detector.

In thermal desorption mode, TD tubes can be desorbed in a controlled mode with sorbents on which the known quantities of the atmosphere have been taken. The analytes are then transferred by carrier gas directly to the GC column and identified/quantified on the MSD.

Of course, the chromatograph can also be used stand-alone without the TD unit. It is then used for classical analysis of liquid and gaseous samples for identification/quantification.

Utilization/Services

- Possibility of on-line connection to various experimental apparatuses and identification of reaction products.
- Analysis of gaseous samples, identification of gases in gas mixtures or pollutants in gases and liquids.
- Gas chromatography with mass detection and use of thermal desorption.
- Accredited analysis of VOC and UVOC compounds using thermal desorption and direct injection.
- Trace to ultra-trace analysis of gas mixtures after cryogenic preconcentration.

