Gas Chromatograph (GC)

Gaseous or liquid samples are injected into the injection port,where the matrix is vaporized and transported by a carrier gas through a column containing an adsorbent Solid phase or absorbing liquid phase coated on a solid support.Each volatile Component will be partitioned between Carrier gas and the solid or liquid phase Depending upon the retention time in The column and eluted through the Column at different time and detected By detector.

Carrier gas : He, N_2, H_2, Ar

Oven: 0-400 °C ~ average boiling point of sample.

Detectors FID, TCD, ECD, (MS)