High-Performance Liquid Chromatography (HPLC)

- Pone under high pressure.
- Stationary phase is small particles of solid in a column. Often silica bonded with different hydrocarbons.
- Liquid Phase is often polar. methanol or water. Mixture is injected into stream of solvent and carried through the column as solution.
- Separated due to different parts being attracted by different amounts to the solid take different times to travel through the column.
- As leaves column UV light passes through it. It's absorbed and UV detector measures how much was absorbed. Chromatogram is produced (graph). Shows the retention times of components of the mixture.
- Retention times Time taken for a substance to pass through the column and reach the detector. Used to identify the compound. Depends on: temperature, pressure, nature of solvent.

Piffgrent types of techniques can be combined to identify compounds. This is used in forensies or drugs testing in sports.

Notes ale Co. W. Preview from Notes 3 of 3