

## Analytical GC-MS System for High-throughput characterization of Volatiles



An Agilent GC-MS system, shared with Lilly Young's lab, on the third floor. The mass detector uses electron impact ionization with fixed 70 eV energy and the effective mass range is from 1 to 1000 atomic mass units. Depending on volatile compounds' properties, the molecular ion may not always be present, but the mass spectrometer generates a fragmentation pattern which can facilitate compound identification twofold - by fragment mass and intensity and by probability based matching to existing patterns in a mass spectral library. GC-MS data is collected by a workstation, using Agilent's ChemStation software. The software uses Wiley's mass spectral library for probability based matching of fragmentation patterns.

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