JMS-T100LP AccuTOF LC-plus 4G + Direct Analysis in Real Time (DART)

Measure accurate-mass mass spectrum of NMR sample solution with no preparation!

An unique solution for organic chemists from JEOL, the pioneer of ambient mass spectrometry.

A sample solution prepared for NMR can be analyzed with no preparation - no dilution, no solvent exchange - and accurate mass can be readily obtained.

 cis-3-hexenyl cinnamate
C_{15}H_{18}O_2  \text{ Mr} = 230.2 (average)

DART-MS analysis

NMR analysis

Analysis in seconds, not minutes.

Dip a glass rod into the sample solution in the NMR sample tube, wait till the solvent evaporates, then present the tip of the glass rod in the DART gas stream.

- Elemental composition of the analyte molecule can be easily elucidated from the measured accurate mass.
- No need to exchange deuterated solvent.
- Wide variety of samples - from non-polar to highly polar analytes - can be analyzed.
- Powder samples or liquid samples can be analyzed as they are.
- A developed TLC plate can be directly analyzed.

Analysis of a liquid/solution sample

Analysis of a powder sample

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