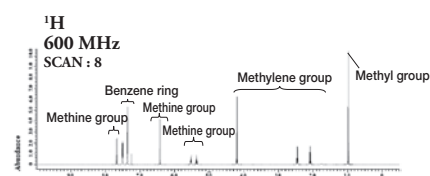
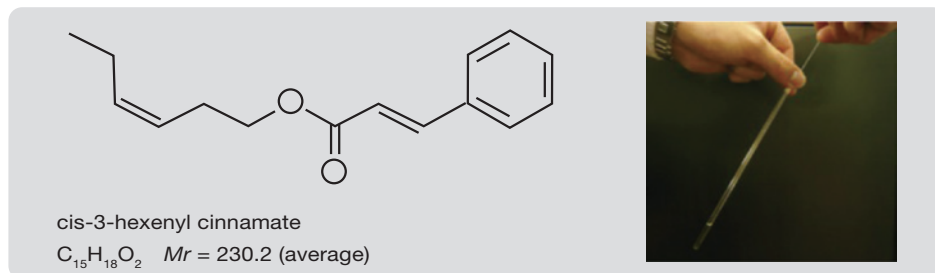


JMS-T100LP AccuTOF LC-plus 4G + Direct Analysis in Real Time (DART)

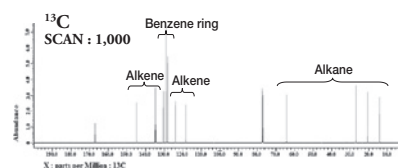
Measure accurate-mass mass spectrum of NMR sample solution with no preparation!

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.



¹H NMR spectrum



¹³C NMR spectrum

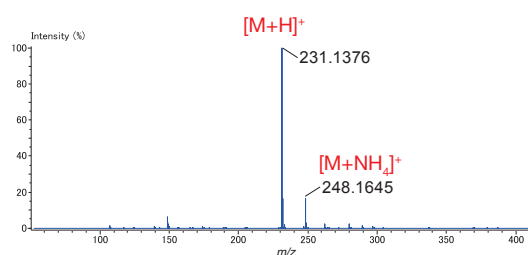
DART-MS analysis

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.



Mass	Intensity	Calc. Mass	Mass Difference [mDa]	Possible Formula	Unsaturation Number
149.06036	56685.48	149.06025	0.10	12C9 1H9 16O2	5.5
281.13765	958912.38	281.13850	-0.86	12C15 1H19 16O2	6.5
248.16453	164814.75	248.16505	-0.53	12C15 1H22 14N 16O2	5.5

Analysis of a liquid/solution sample



Analysis of a powder sample



- 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.

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