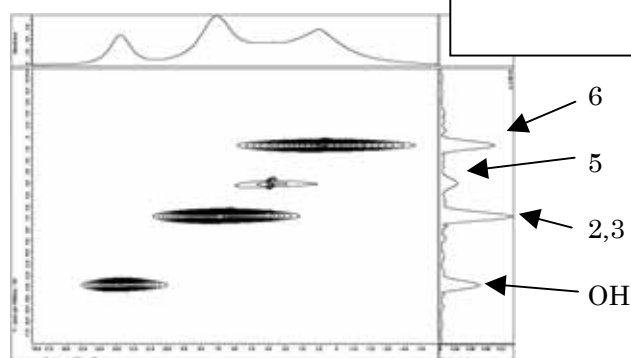
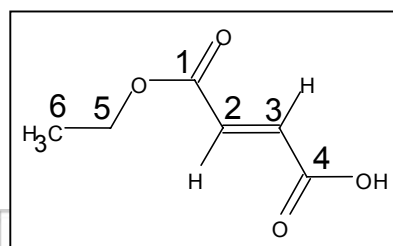


^1H solid-state high-resolution NMR spectroscopy using standard probes

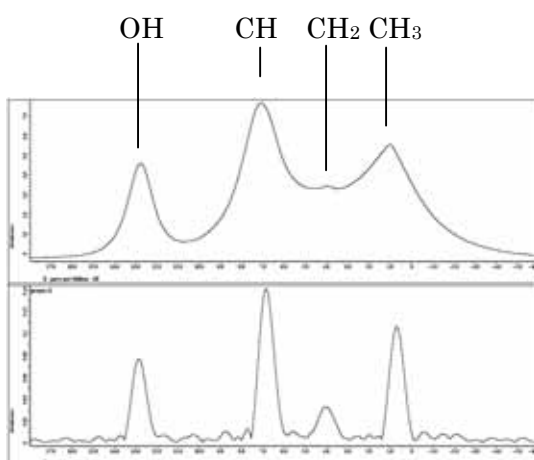
In conventional solid-state NMR spectroscopy, ^1H high-resolution spectra were obtained using CRAMPS (Combined Rotation And Multiple Pulse Spectroscopy) method. This method, however, was not popular, since the preparation of RF pulses was difficult and troublesome.

In JNM-ECA series, ^1H homonuclear decoupling is easily adjusted, and ^1H solid-state high-resolution spectra can be obtained with a standard 4mm CPMAS probe.



^1H - ^1H two-dimensional spectrum of monoethyl fumarate.

Spectrometer: JNM-ECX400
 Probe: 4mm CPMAS
 Homonuclear decoupling: PMLG3
 Spinning frequency: 15 kHz
 Measurement time: 5.4 min



^1H spectra of monoethyl fumarate.

Upper: MAS spectrum obtained at the spinning frequency of 15 kHz.

Lower: High-resolution spectrum obtained in the two-dimensional measurement.