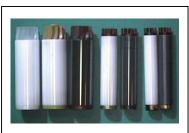
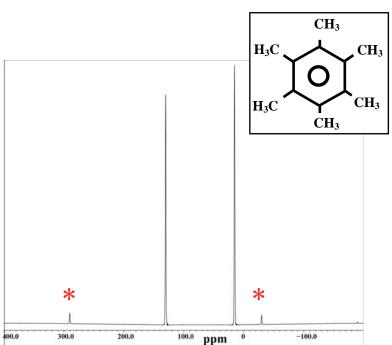
Fast-spinning 3.2mm CPMAS probe

JEOL Resonance supplies "Fast-spinning 3.2mm CPMAS probe" which gives spinning sideband free spectra in high-field solid-state NMR spectroscopy.

Use of a 3.2mm rotor realizes a fast spinning speed of 24 kHz with preventing excessive reduction in sensitivity, in comparison with a conventional 4mm rotor.



ECA solid-state rotors (From left to right) 6mm SRMAS rotor 6mm zirconia rotor 6mm Si3N4 rotor 4mm zirconia rotor 4mm Si3N4 rotor 3.2mm zirconia rotor 3.2mm Si3N4 rotor



CPMAS spectrum of hexamethylbenzene observed with JNM-ECA600 at the spinning frequency of 24.2 kHz. *'s indicate spinning sidebands arising from aromatic carbons. Fast spinning of 24 kHz may give spinning sideband free spectra even in 600 MHz high-field systems.

Comparison of JNM-ECA CPMAS probes

	6mm	4mm	3.2mm
Max. spinning speed	12 kHz	19 kHz	24 kHz
Sample volume ¹⁾	166 <i>μ</i> Ι	37 <i>μ</i> I	27 μ Ι
Sensitivity ²⁾	180	140	120

1) With standard spacers.

2) For hexamethylbenzene with 8 scans in 400 MHz systems.

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