

Thermo Scientific picoSpin 45 NMR Spectrometer

Accessible and affordable NMR spectroscopy

The Thermo Scientific™ picoSpin™ 45 spectrometer provides the power of Nuclear Magnetic Resonance (NMR) spectroscopy in a compact and affordable instrument. By drastically lowering cost and size, the picoSpin 45 instrument makes NMR spectroscopy accessible to a variety of laboratories.



The picoSpin 45 spectrometer is simple to operate. It is easy for students and technicians with limited NMR experience to use the power of NMR spectroscopy to identify chemical compounds or elucidate their structure. The instrument's fluid capillary system is contained within a replaceable cartridge and only requires

30 microliters of a liquid sample. Its temperature-controlled permanent magnet does not require liquid cryogenics, eliminating the need for consumables or custom laboratory facilities. Additionally, because the instrument is lightweight (less than five kilograms), the picoSpin 45 spectrometer is easily shared across multiple laboratories.



Thermo
SCIENTIFIC

Product Specifications

Performance

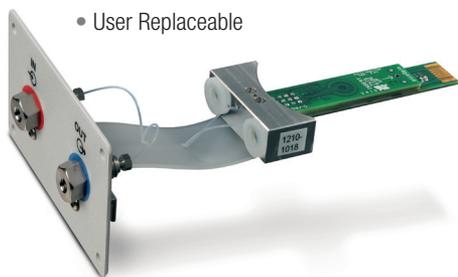
- Larmor Frequency
 45 ± 1 MHz Proton
- Chemical Shift Resolution
 60 ppb FWHM or Better
- Signal-to-noise
 $>500:1$ for Water, Single Pulse

Magnet

- Rare Earth Permanent
- 1.1 Tesla
- Temperature Stabilized

Capillary Cartridge

- Capillary Sample Loop
 $300 \mu\text{m}$ Capillary ID
 $30 \mu\text{L}$ Sample Volume
- 1/16" Interface Fittings
- User Replaceable



Sample

- Sample Type – Liquid
- Sample Introduction
Inject Sample via Syringe

Environmental

- No Cryogenics or Compressed Gases
- No Special Laboratory Environment

Interface

- Ethernet
Direct Connection or LAN
- Embedded Web Server

Software/Collect

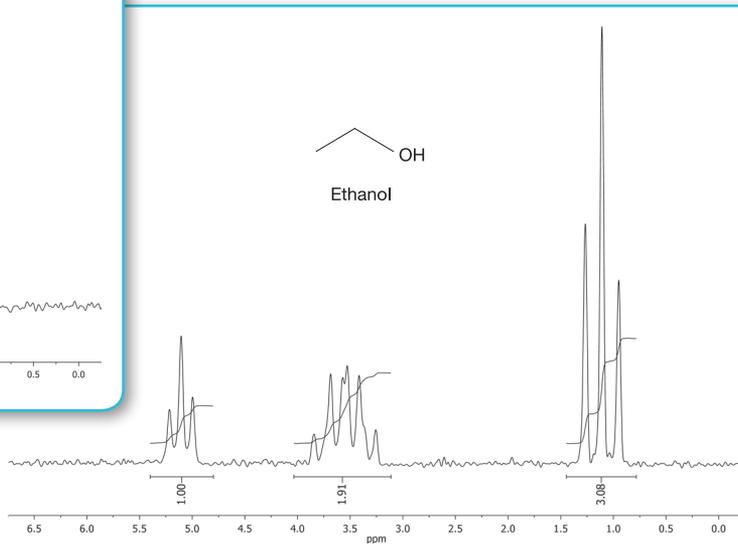
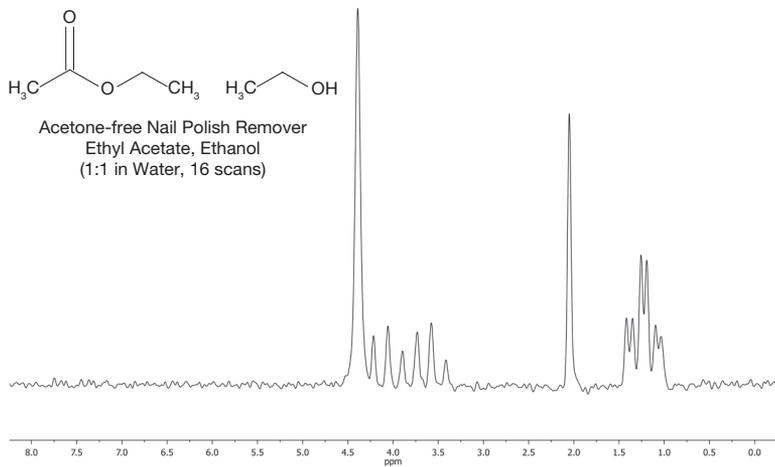
- Web Browser User Interface
- Data Export
JCAMP-DX
- Data Analysis Software
Mestrelab Mnova™ NMR Software
- One Year License

Dimensions

- Size: 17.8 cm × 14.6 cm × 29.2 cm
(7" × 5.75" × 11.5")
- Weight: 4.8 kg (10.5 lbs)

Electrical Requirements

- 100/230 VAC, 50/60 Hz, 150 W



Part of Thermo Fisher Scientific

For customer service, call 1-800-766-7000.
To fax an order, use 1-800-926-1166.
To order online: www.fishersci.com

PS52471_E 03/13M BN0212133



Part of Thermo Fisher Scientific