

The World's First Miniature NMR spectrometer

With the Thermo Scientific™ picoSpin™ 45 spectrometer, you put the power of Nuclear Magnetic Resonance spectroscopy in the hands of your students. In lecture courses, you can use picoSpin to demonstrate the principles of NMR spectroscopy in real-time. In the laboratory, students will quickly discover why NMR spectroscopy is the most powerful analytical technique in chemistry.

- Miniature 45 MHz 1H pulsed FT NMR spectrometer
- Powerful analytical tool in a shoebox sized package
- Lightweight & portable: 10.5 lbs, 7" x 5.75" x 11.5"
- Microcoil capillary probe
- 20 microliter sample volume
- Fully programmable pulse sequencer
- Ethernet interface
- Web-server GUI
- Includes a 1-yr Mnova™ NMR suite license

**Introducing the Thermo Scientific
picoSpin 45 NMR spectrometer**



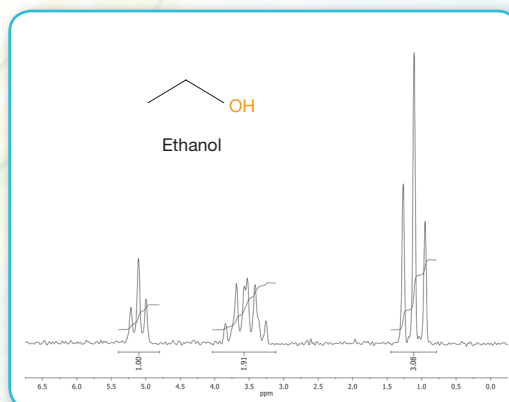
Learn More About the picoSpin NMR

We develop and manufacture miniature NMR spectrometers and related technology. Our products have applications in diverse fields – anyplace where chemists, chemical engineers, QC engineers, safety scientists or other professionals need to analyze the chemical content of fluids.

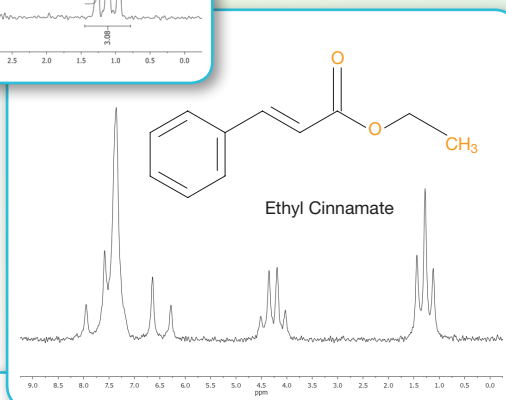
picoSpin spectrometers have a big role to play in chemical education. Now every chemistry student can experience NMR first-hand and learn why it is such a powerful analytical method.

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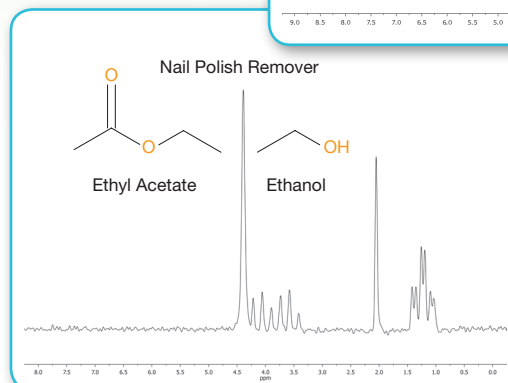
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to learn more about the picoSpin 45



Ethanol (16 scans): ¹H NMR (44 MHz, Neat) δ 5.44–4.77 (t, J = 4.9 Hz, 1H), 4.07–3.03 (m, 2H), 1.49–0.72 (t, J = 7.0 Hz, 3H).



Ethyl Cinnamate (16 scans): ¹H NMR (44 MHz, Neat) δ 8.18–7.50 (d, J = 16.1 Hz, 1H), 7.54–7.18 (s, 5H), 6.91–6.06 (d, J = 15.9 Hz, 1H), 4.74–3.80 (q, J = 7.2 Hz, 2H), 1.67–0.89 (t, J = 7.1 Hz, 3H).



Nail Polish Remover (24 scans): ¹H NMR (44 MHz, Neat) δ 4.63–4.20 (s, 1H), 4.31–3.16 (dt, J = 21.3, 7.1 Hz, 4H), 2.29–1.90 (s, 3H), 1.56–0.78 (t, J = 7.2 Hz, 3H), 1.57–0.83 (t, J = 7.1 Hz, 3H).



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