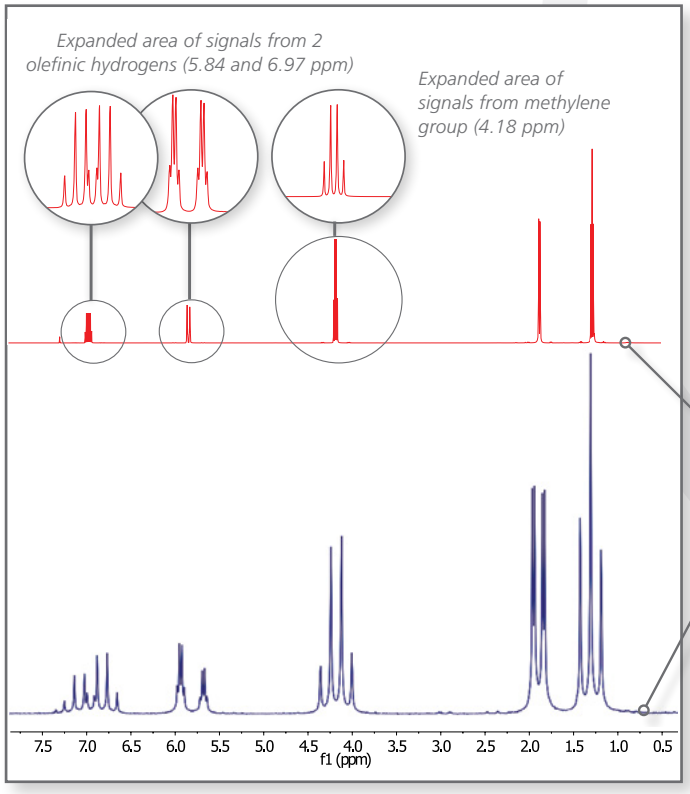
Pulsar™

High resolution benchtop NMR for every chemistry laboratory

High performance benchtop NMR

- 60 MHz rare-earth permanent magnet with high resolution (< 0.7Hz)
- Experiments available:
  - 1D ^{1}H and ^{19}F
  - Inversion recovery for T_1 measurements
  - CPMG for T_2 measurements
  - 2D NMR:
    - COSY
    - J-Resolved
    - TOCSY



Ethyl crotonate spectrum acquired at 500 MHz (12.1 T)

Ethyl crotonate spectrum acquired at 60 MHz (1.45 T)

Ease of Use

- Completes your lab's suite of analytical techniques
- Perfect for teaching departments
- Easily operated by undergraduate students
- Simple analysis of spectra

Low maintenance and cost of ownership

No liquid helium or nitrogen required

- Cryogen-free system
- ^{19}F or ^{1}H measurements on single probe
- No specialist operator required
- Fast operation – high throughput of samples
- At-line reaction monitoring
- Suitable for screening samples before running on a high field system (eliminate unsuitable samples – save time and cost)

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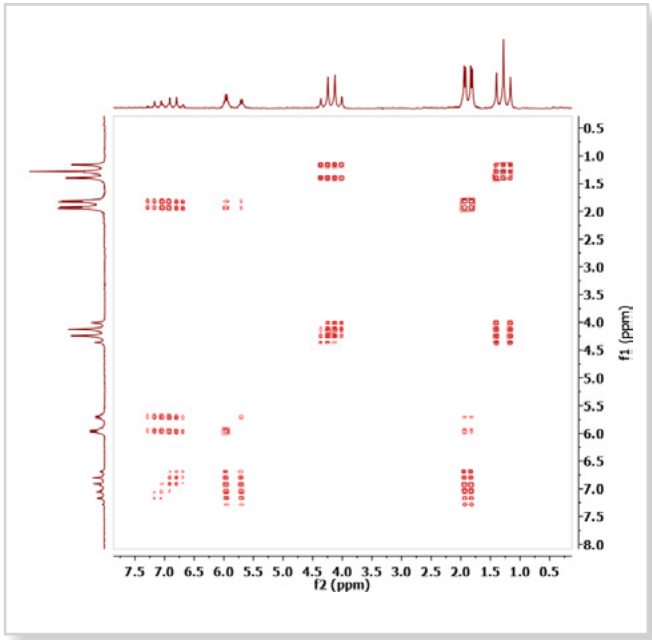
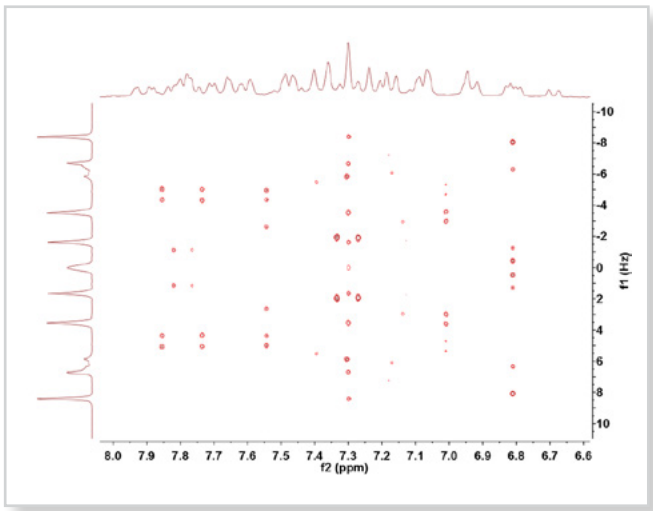
The Business of Science®

Pulsar offers a range of 2D NMR experiments including COSY; J-resolved and TOCSY.



Correlation Spectroscopy (COSY) data for ethyl crotonate



J-resolved spectroscopy of the aromatic region of 2-(2-hydroxy-phenyl) benzothiazole

Contact us now for more information
industrial@oxinst.com

visit **www.oxford-instruments.com/pulsar** for more information

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