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Spinsolve

Flourine and proton benchtop NMR on the same system

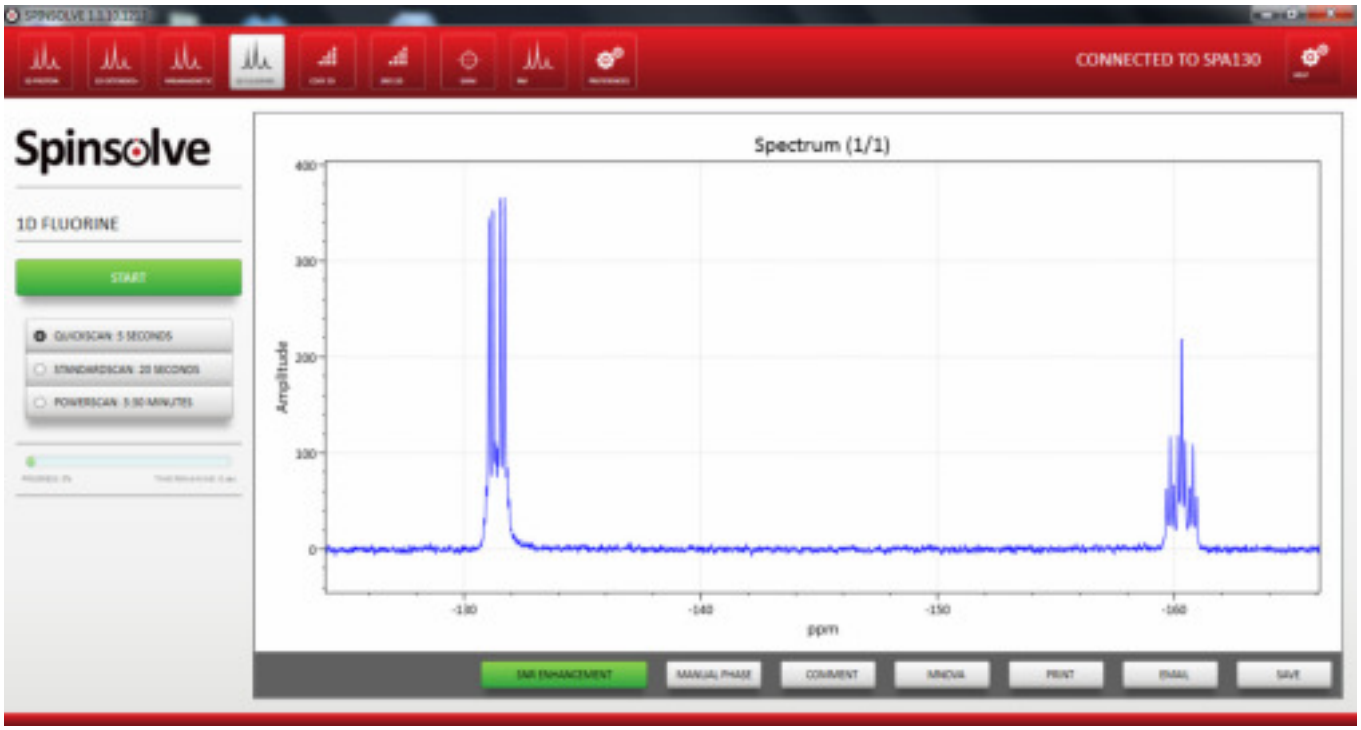
The Spinsolve benchtop NMR spectrometer can measure both Fluorine and Proton. Unlike traditional NMR systems, no complicated retuning of the probe is required.

Why use Fluorine NMR?

The ^{19}F nucleus is one of the most important nuclei for NMR spectroscopy. Due to its 100% natural abundance and high frequency its NMR sensitivity is very high. Organofluorine compounds are often used in the pharmaceutical industry and Fluorine is often used as a molecular tag.

Measuring ^{19}F on the Spinsolve benchtop NMR

- Included in version 1.1 of the Spinsolve software is a 1D Fluorine experiment.
- No hardware adjustment is required.
- Proton and Fluorine experiments can be run on the same sample with a click of the button.

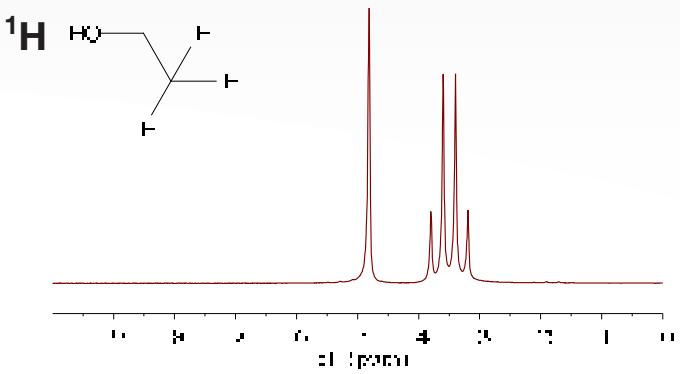


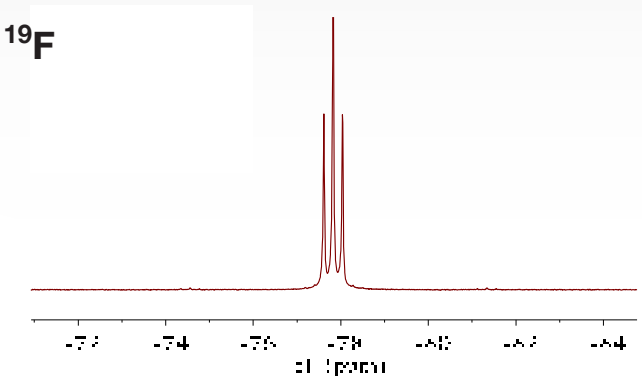
Spinsolve v1.1 software showing a single scan ^{19}F acquisition of 5-bromo-1,2,3-trifluorobenzene

Spinsolve

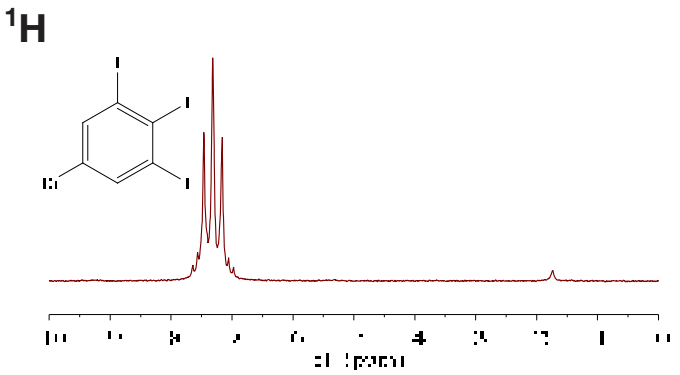
Example of both Proton and Fluorine NMR on the same sample

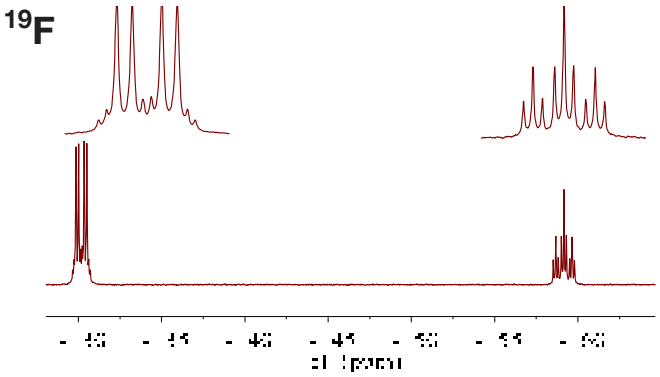
2, 2, 2-trifluoroethanol





5-bromo-1,2,3-trifluorobenzene





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GERMANY	+49 241 9278 7270	**UNITED STATES**	+1 855 667 6835
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