

The Solution for Process Monitoring

Designed for the analysis of chemical processes by NMR, InsightMR is the ideal solution for both industrial and academic scientists studying or optimizing reactions.

InsightMR's two components, a flow tube and dedicated software, enable online monitoring of chemical reactions in real-time under real process conditions.

Gathering insights into the mechanism and kinetics of chemical reactions is now at your fingertips!

InsightMR Software Features at a Glance

- A single interface for automated acquisition control and interactive data analysis.
- On-the-fly acquisition parameters adjustment based on real-time kinetic data.
- Straightforward experiment set up. Default kinetics parameters provided for both deuterated and non-deuterated solvents.
- Rapid and effortless handling of hundreds of stacked spectra.
- Supports acquisition, processing and analysis of series of 1Ds (different nuclei), interleaved experiments and multi samples in parallel.
- Integrates Dynamics Center, TopSpin and IconNMR into one platform.

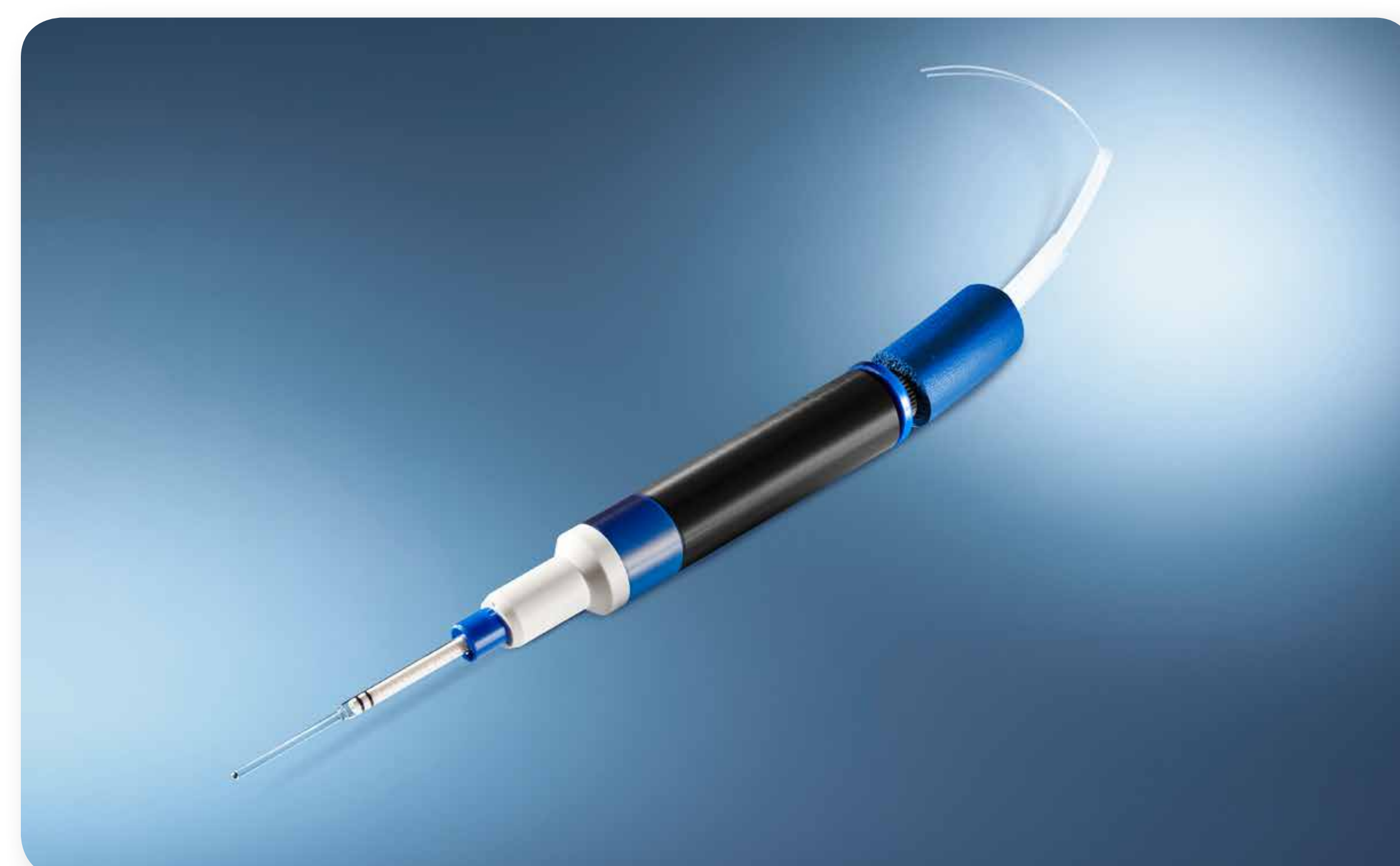
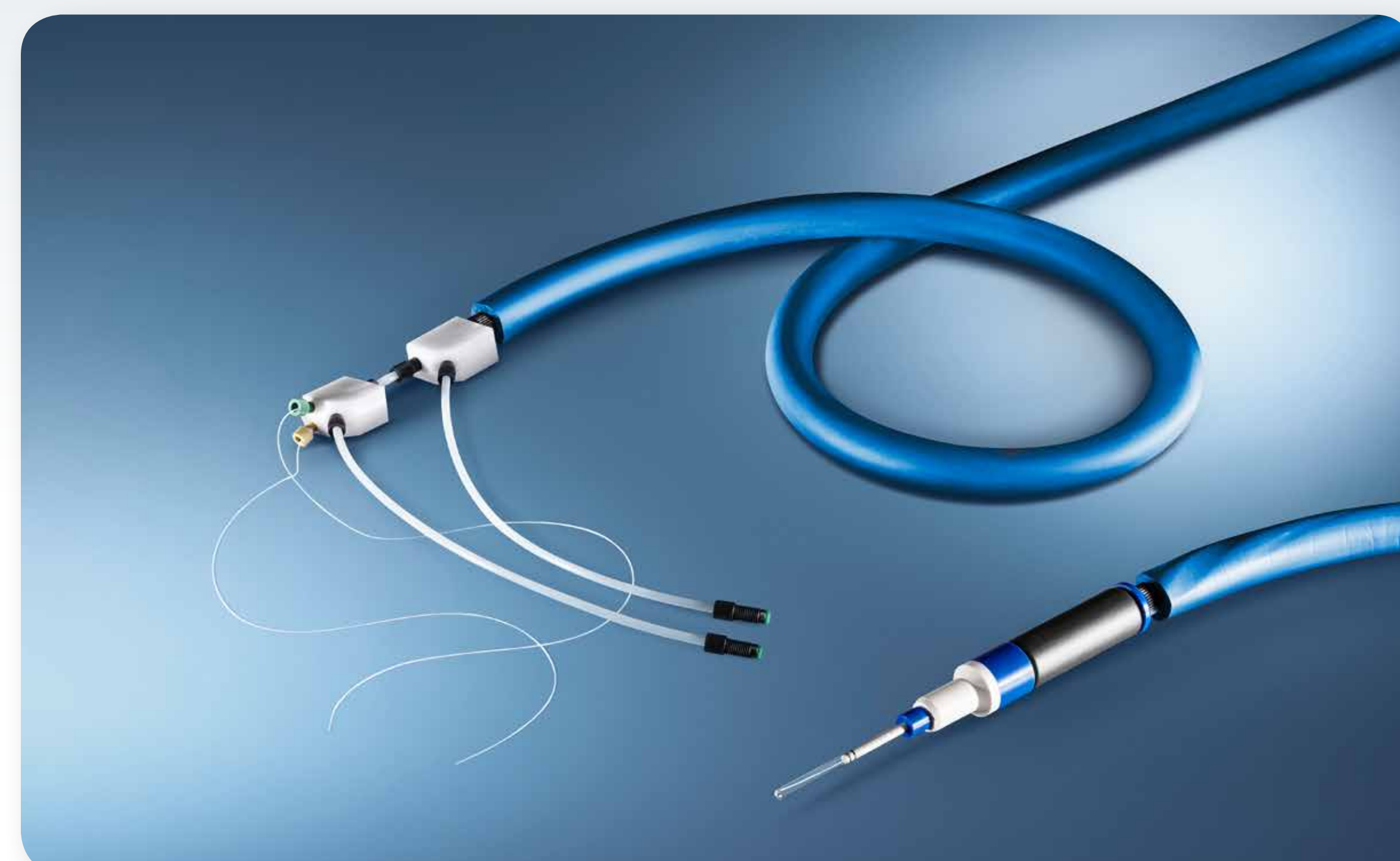


Fig. 2,3 Flow tube assembly: glass tube, sample holder, sample in and out tubing, temperature regulation lines and insulating cover.

InsightMR Flow Tube* Features at a Glance

- Custom designed flow tube enables online reaction monitoring by NMR, in real-time under real conditions.
- Complete temperature control from vessel to probe.
- Tested to withstand pressures over 10 bar.
- Interchangeable glass tube.
- Proven robustness - industry tested.
- Enables simultaneous acquisition of data using different analytical techniques: NMR, IR, pH, and MS.
- Samples closer to the start of the reaction.

*Patent pending

Summary

- Combined hardware and software solution for process understanding and optimization.
- Provides answers to key chemical questions: reaction yield, mechanistic insights and reaction kinetics.
- Harness NMR data to make strategic process chemistry decisions, ultimately leading to cost savings.

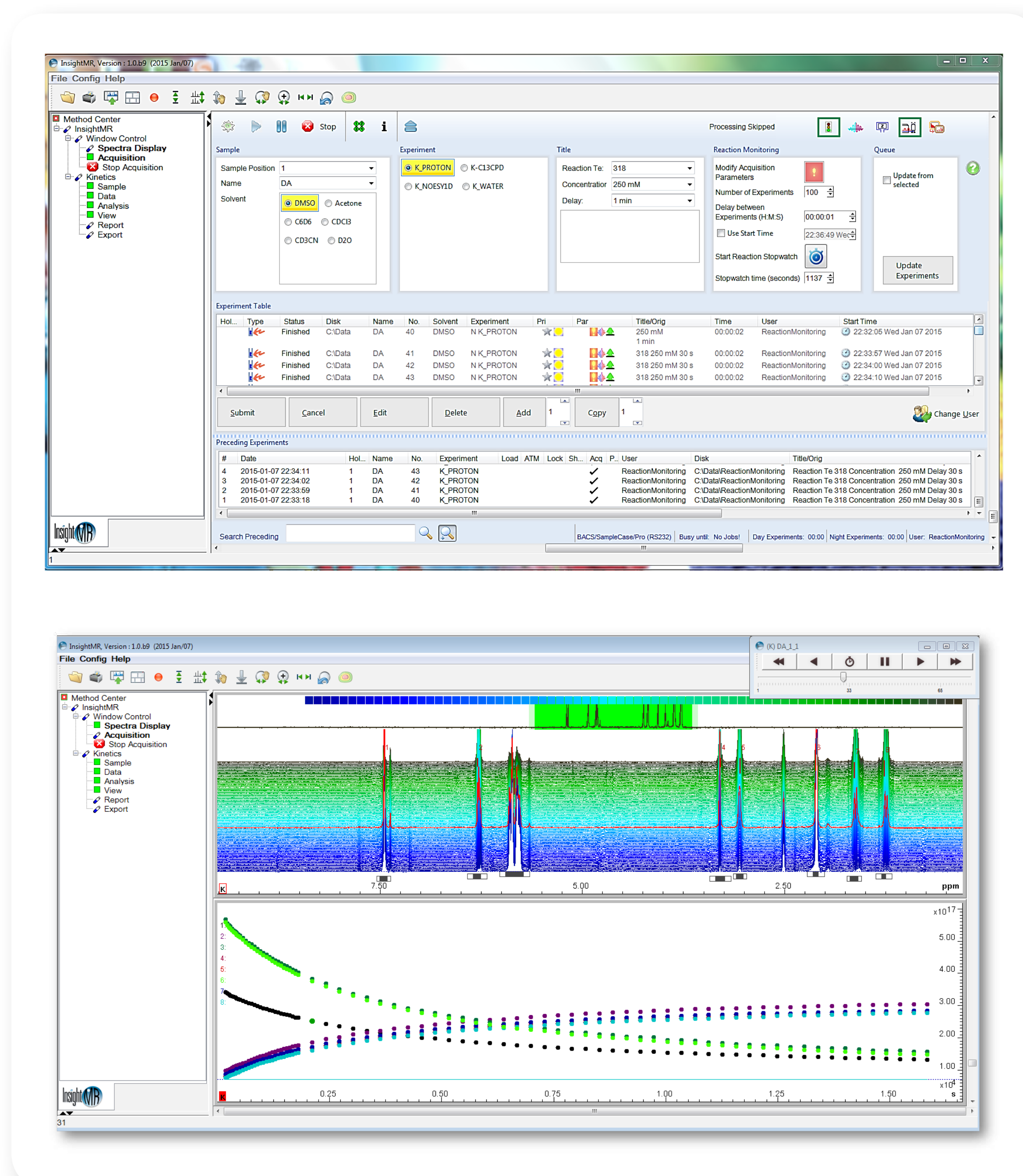


Fig. 1 InsightMR software interface: acquisition and spectra display windows are shown.

