Spinsolve 60 Carbon

60 MHz carbon benchtop NMR

The Spinsolve 60 Carbon benchtop NMR spectrometer gives you a remarkable 60 MHz NMR spectrometer in a compact benchtop instrument. The spectrometer is capable of a wide range of $^1$H, $^{19}$F, and $^{13}$C NMR experiments. The software is beautiful and easy for anyone to use. You can also quickly automate running multiple experiments with flexible scripting.

Applications

- Research laboratories
- Industrial QA/QC laboratories
- Undergraduate education

Features

- 1D and 2D NMR experiments
- $^1$H, $^{19}$F and $^{13}$C nuclei
- No spinning or compressed gas
- Compact, benchtop size and weight
- No cryogens

$^{13}$C $[^1]$H 500 mM Ibuprofen

11,12
10
9
8,4
7,5
6
3
1
Spectra from the Spinsolve 60 Carbon benchtop NMR

2 M Ibuprofen, 1D proton, single scan, 10 seconds

Neat Diethyl phthalate, 1D Carbon and DEPT spectra, total time 10 minutes

2 M Ibuprofen, HSQC-ME, ~1 hour

2 M Ibuprofen, HMBC, ~2 hours
Software

The Spinsolve software is beautifully simple and easy to use, with a clean and intuitive user interface.

**Simple menu structure**
1. Click to choose nucleus
2. Click to choose experiment
3. Click Start (watch status on the progress bar)
4. Click any processing you wish to apply

**Automate experiments with scripts**
A range of script templates are provided for easy user modification. Scripts are displayed graphically to provide a clear picture of the sequence.

*This script runs a sequence of a 1D proton, a 1D carbon, a DEPT, an HSQC-ME, and an HMBC.*
Specifications

- Nuclei: $^1$H, $^{19}$F, $^{13}$C
- Operating frequency: 60 MHz ($^1$H)
- $^1$H 50% Linewidth: < 0.5 Hz
- $^1$H 0.55% Linewidth: < 20 Hz
- $^1$H Sensitivity: >120:1 for 1% Ethyl Benzene
- Operating Temperature Range: 20° C to 25° C (68° F to 77° F)
- Dimensions: 58 x 43 x 40 cm (23” x 17” x16”)
- Weight: 60 kg (120 lb)
- Stray Field: < 2 G all around system
- Power requirement: 110-240V AC

Pulse sequences available on the Spinsolve 60 Carbon spectrometer

<table>
<thead>
<tr>
<th>Proton</th>
<th>Fluorine</th>
<th>Carbon</th>
</tr>
</thead>
<tbody>
<tr>
<td>1D</td>
<td>1D</td>
<td>1D</td>
</tr>
<tr>
<td>Paramagnetic</td>
<td>Paramagnetic</td>
<td>DEPT</td>
</tr>
<tr>
<td>2D COSY</td>
<td>2D F - COSY</td>
<td>HETCOR</td>
</tr>
<tr>
<td>2D TOCSY</td>
<td>2D F - JRES</td>
<td>HMBC</td>
</tr>
<tr>
<td>2D JRES</td>
<td>2D FH - COSY</td>
<td>HMQC</td>
</tr>
<tr>
<td>$T_1$, $T_2$</td>
<td>Reaction Monitoring</td>
<td>HSQC</td>
</tr>
<tr>
<td>Reaction Monitoring</td>
<td></td>
<td>HSQC-ME</td>
</tr>
</tbody>
</table>

Other sequences may be available, contact Magritek for details.

Contact us now for a quote, to request a demo or to measure your samples

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