

60

Benchtop NMR

MHz



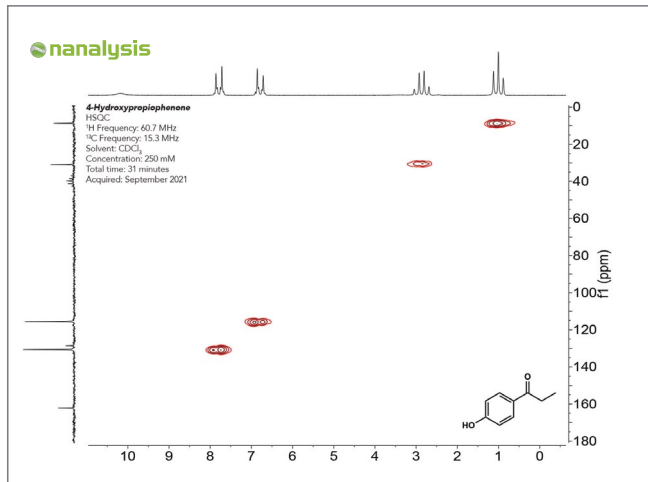
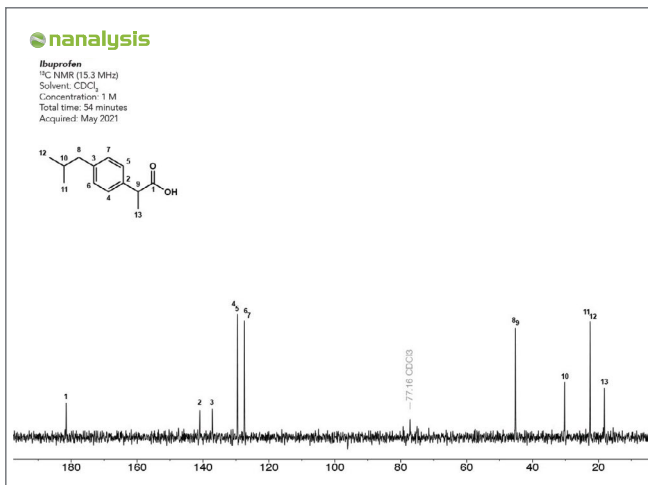
Our Flagship Benchtop NMR

Nanalysis 60 MHz

With the magnet, electronics and computer in a single enclosure, the 60 MHz is the best all-in-one benchtop NMR spectrometer in its class. Compact and high performance benchtop NMR making it resilient to the rigours of a busy laboratory.



Talk to us about your benchtop NMR application | sales@nanalysis.com



System Validation

Nanalysis offers an optional software package for Installation Qualification (IQ) and Operational Qualification (OQ) to meet GxP requirements. Our IQ/OQ protocol provides data quality and integrity assurance in a simple one-click fashion, giving users quick access to a detailed report of spectrometer performance.

Queue Experiments

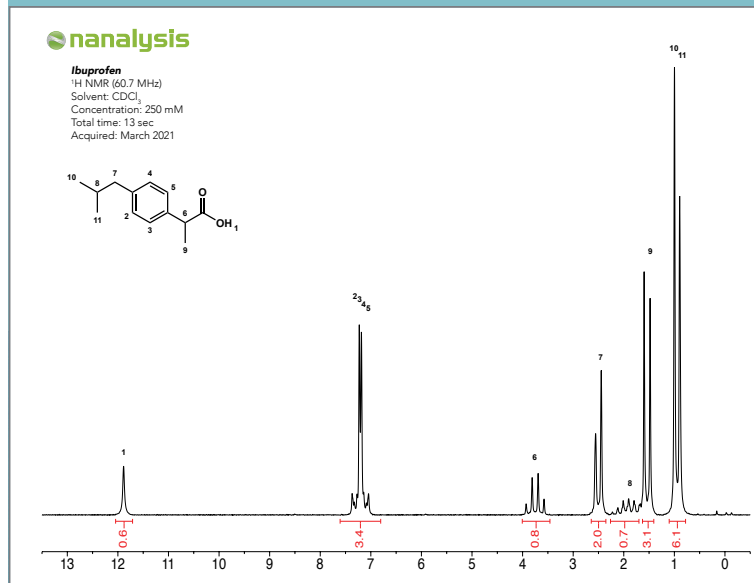
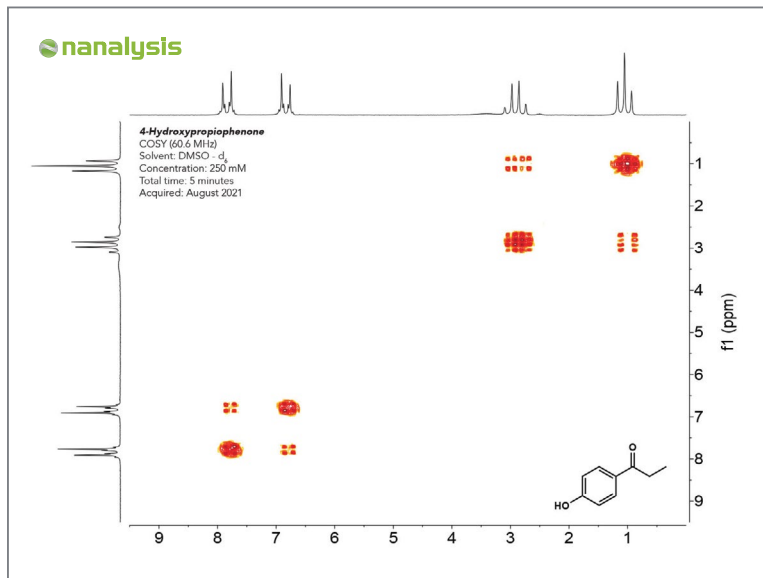
Our queuing module allows the user to set up a series of experiments to be acquired automatically (e.g., 1D ¹H, COSY, HSQC, 1D ¹³C{¹H}).

ENERGY EFFICIENT
 MULTINUCLEAR CAPABILITIES
 HIGH PERFORMANCE
 LOW MAINTENANCE
 SIMPLE REACTION MONITORING

ACCESSIBLE
 AUTOMATABLE
 COMPACT AND PORTABLE
 AFFORDABLE
 CONVENTIONAL SAMPLING

60PRO
 Multi Nuclear

Inquire about available nuclei configurations to enhance the utility of the 60 MHz for characterization of a broad range of natural and synthetic complexes. Observe a number of spin active nuclei including, ¹H, ⁷Li, ¹¹B, ¹³C, ¹⁵N, ¹⁹F, ²³Na, ³¹P, etc.



Low Maintenance and Easy-to-use

Built-in touchscreen, convenient automated and standby shimming routines ensure that the instrument is always ready for use.

Load Standard Experiments

60PRO – e.g., $^1\text{H}/^{19}\text{F}/^{13}\text{C}$, $^1\text{H}/^{19}\text{F}/^{31}\text{P}$, $^1\text{H}/^{19}\text{F}/^{11}\text{B}$, etc.

The standard experiments include 1D, T_1 , T_2 , COSY, JRES, HSQC, DEPT, APT, HETCOR, etc. Please inquire about additional pulse sequences

60e – $^1\text{H}/^{19}\text{F}$

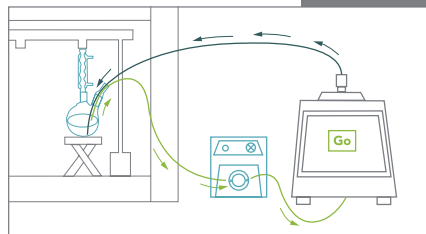
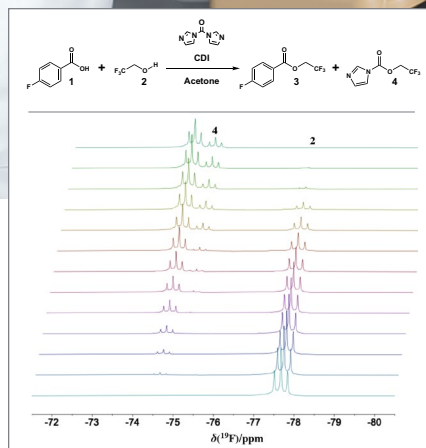
1D, T_1 , T_2 , COSY, JRES



60e

Single Channel

- > Simple operation
- > Accurate, precise, repeatable
- > Quick data collection



* Illustration for demonstration purposes only

Simple Reaction Monitoring NMRReady-flow cell kit

The NMRReady-flow allows easy interconversion of any 60e or 60PRO benchtop spectrometer into an NMR online detector either as a stand-alone tool or in conjunction with other analytical techniques.

For more information, visit
nanalysis.com/nmready-flow

NMRReady-flow allows users to:

- » Understand and optimize chemical reactions in real time
- » Improve reaction yield
- » Automate repeated syntheses
- » Integrate the 60 MHz benchtop NMR spectrometer in a centralized laboratory system

If you would like further information about any of the optional software, accessories and service packages, please contact

sales@nanalysis.com

Technical Specifications



Operating Frequency
60 MHz (1.40 T)

Magnet
Permanent, no cryogenes

User Interface
Built-in touchscreen and remote access. Connectable to external computer, if desired.

Nuclei
60PRO – Dual-Channel
e.g., ¹H/¹⁹F/¹³C, ¹H/¹⁹F/³¹P
 Please inquire about custom options

60e – Single-Channel; ¹H/¹⁹F

Lock
Internal ¹H and ²H options

Sample
Standard 5 mm NMR tubes, flow options

Compatibility
 File: **JCAMP-DX and CSV**
 Software: **Mnova, ACD/Labs, Delta, TopSpin, MATLAB, SPINit, NMRfx, etc.**

Resolution
LW(50%) <1.0 Hz (<0.017 ppm)

Sensitivity
100 : 1
(1% Ethylbenzene, 1 scan)

Stray Field
2 Gauss line contained within enclosure

Operating Temperature
18 – 26 °C

Power Supply
100 – 240 VAC, 50 – 60 Hz

Connectivity
Ethernet/WiFi, USB, Serial, HDMI

Dimensions with screen (w x h x d)
11.8 x 11 x 19.2"
30 x 28 x 49 cm

Weight
58 lbs / 26.3 kg

Available Experiments

1D
T ₁
T ₂
COSY
JRES
DEPT
APT
HSQC
HETCOR
TOCSY
Nutation
Add-on packages (kinetics, solvent suppression)

Please inquire about additional pulse sequences.

* Specifications are subject to change without notice



Robust, Compact, Portable

All-in-one compact benchtop NMR, easy-to-site anywhere making hands-on access simple.



Rapid Results

Discover how a high-performance benchtop NMR located directly on your bench can improve your productivity!



Low Maintenance

Reduce operating expenditures with permanent magnet NMR spectrometers that require no cryogenes, no preventative maintenance, or weekly servicing.



Configurable

Run standard acquisition parameters from a convenient pop-up menu and modify as desired to get the results you want.



Quick and Easy-to-use

With a simple but modifiable interface controlled by touchscreen, keyboard/mouse or external computer, data can be acquired easily by the user.

Quick and Easy-to-use

Configure
Acquire
Analyze