

600 MHz NMR spectroscopy

600 MHz 핵자기공명분광기

Model

Agilent Technologies (DD2 600 MHz FT NMR)

Specifications

Magnet

- 14.1 Tesla Premium Compact Shield magnet
- 5 Gauss field boundary is within 30 cm of the cryostat.
- Field drift : 10 Hz/hr
- Liquid Helium refill volume : 66 L (hold time: 120 days)
- Liquid Nitrogen refill volume : 83 L (hold time: 15 days)

Liquid probes

- One NMR probe (1H-19F/15N-31P 5 mm PFG) for small molecules
- HCN probe (1H{13C/15N} 5 mm PFG Triple resonance probe) for the study of biomolecules (Protein and Nucleic acids)



Location

L2131 Tel.02-958-5965

400 MHz NMR spectroscopy

400 MHz 핵자기공명분광기

Model

Bruker (Avance III 400 MHz FT NMR)

Specifications

Magnet

- 9.3 Tesla Ascend 400

Liquid probes

- 5 mm BBO 400 MHz S1 with z-gradient at all frequencies
- Automated tuning and matching device
- Outer coil optimized for 1H observation & decoupling, inner coil optimized for observation of nuclei between 31P and 15N
- Automated sample exchanger



Location

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Applications

- Atomic level solution structure elucidation
- Drug screening & design
- Chemical composition analysis
- Raw material fingerprinting
- Sample purity determination
- Quality assurance and control
- Quantitative analysis
- Compound identification and confirmation
- Analysis of exchange process
- Reaction kinetics, mechanism analysis

