



## Expert NMR Service

### Liquid State NMR Spectroscopy Equipment-

Varian 300 MHz NMR  
5 mm 4-Nucleus Probe ( $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{19}\text{F}$ ,  $^{31}\text{P}$ )

Room Temperature

All routine 1D and 2D pulse sequences:

$^1\text{H}$ - $^1\text{H}$  COSY,  $^1\text{H}$ - $^1\text{H}$  NOESY,  $^1\text{H}$ - $^{13}\text{C}$  DEPT,  $^1\text{H}$ - $^{13}\text{C}$  HETCOR, HMQC, Relax

### General Operating Procedure-

Ryss will prepare the customer's samples using its standard procedures. Spectral data will be provided with the spectrum with integrals, peak lists and necessary expansions.

Data will be faxed to customers. Originals will be sent via regular mail.

We strive for next day turn around time service (within 24 hours after receipt of sample).

### Sample Quantity Requirement-

For  $^1\text{H}$  and  $^{19}\text{F}$  – minimum 1 mg

For  $^{13}\text{C}$  and  $^{31}\text{P}$  – minimum 20 mg

Samples may be provided to Ryss in either solid or liquid form in appropriate containers with identifications.

### Fees-

Standard  $^1\text{H}$  &  $^{19}\text{F}$  analysis                      \$30 per sample

(No interpretation)

Standard  $^{13}\text{C}$  &  $^{31}\text{P}$  analysis                      \$180 per sample

(No interpretation)

If non-standard solvent is requested, the cost of solvent will be charged.

2D analysis will be based on spectrometer time billed at \$90 per hour with reduced rates of \$40 per hour after the first 3 hours.

Interpretation of spectra is billed at \$120 hour (min. ½ hour with ½ hour increments)

### Expert Analysis and Consulting-

Our scientists at Ryss are experts in NMR spectroscopy. We provide interactive consultation services on structure elucidation and identification of metabolites, polymers, residues, trace compounds and other molecules.

*We welcome you to contact us to discuss about this expert service. [info@ryss.com](mailto:info@ryss.com) or 510 477-9570.*

29540 Kohoutek Way, Union City, CA 94587

Tel: 510 477-9570    Fax: 510 477-0534

[Sales@ryss.com](mailto:Sales@ryss.com)    [Http://www.ryss.com](http://www.ryss.com)