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To: All Varian 300 Users

From: John Harwood (jharwood@purdue.edu)

Date: September 12, 2008

Subject: Varian Inova-300-2 (BRWN 4100) Back in Service

I wanted to inform everyone that our Varian Inova-300-2 in BRWN 4100 is now operational again.

I would like first to apologize for the length of time that this spectrometer has been down. However, it transpired that there were several unrelated problems that cropped up at once, and it was not possible to work on several of them until we received the RF amplifier unit back from repair. Unfortunately, this repair took approximately two months to complete.

Currently the spectrometer is operating without its normal probe, which is out for repair. We have substituted a similar probe, which is working reasonably well, but please be aware that the attainable resolution is not to specification. However, we feel that the spectrometer is performing well enough to be able to provide useful service, especially in light of the fact that the Varian Inova 300-1 in WTHR will be down during parts of the next two weekends because of power outages.

Also, we have had a problem with this spectrometer's magnet. Because of this we had to do some work which resulted in the field shifting slightly. We have updated all of the standard PINMRF parameter sets and macros to account for this change. However, users who use other parameters to acquire data will need to check and possibly correct the chemical shift referencing on their spectra.

This is a good time to point out that, as a general recommendation, we suggest that **all users** follow the PINMRF-published methods for operating both of our Varian Inova-300 spectrometers. These methods are designed to make using the spectrometers as easy as possible, and to facilitate each user leaving the spectrometer in the proper condition for the next user.

Finally, the variable-temperature controller on the Varian Inova 300-2 is still out of service.

Please don't hesitate to contact me with any questions or comments.

cc: D. McMillin
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