

300 MHz NMR - TARDIS

ICONNMR TRAINING GUIDE

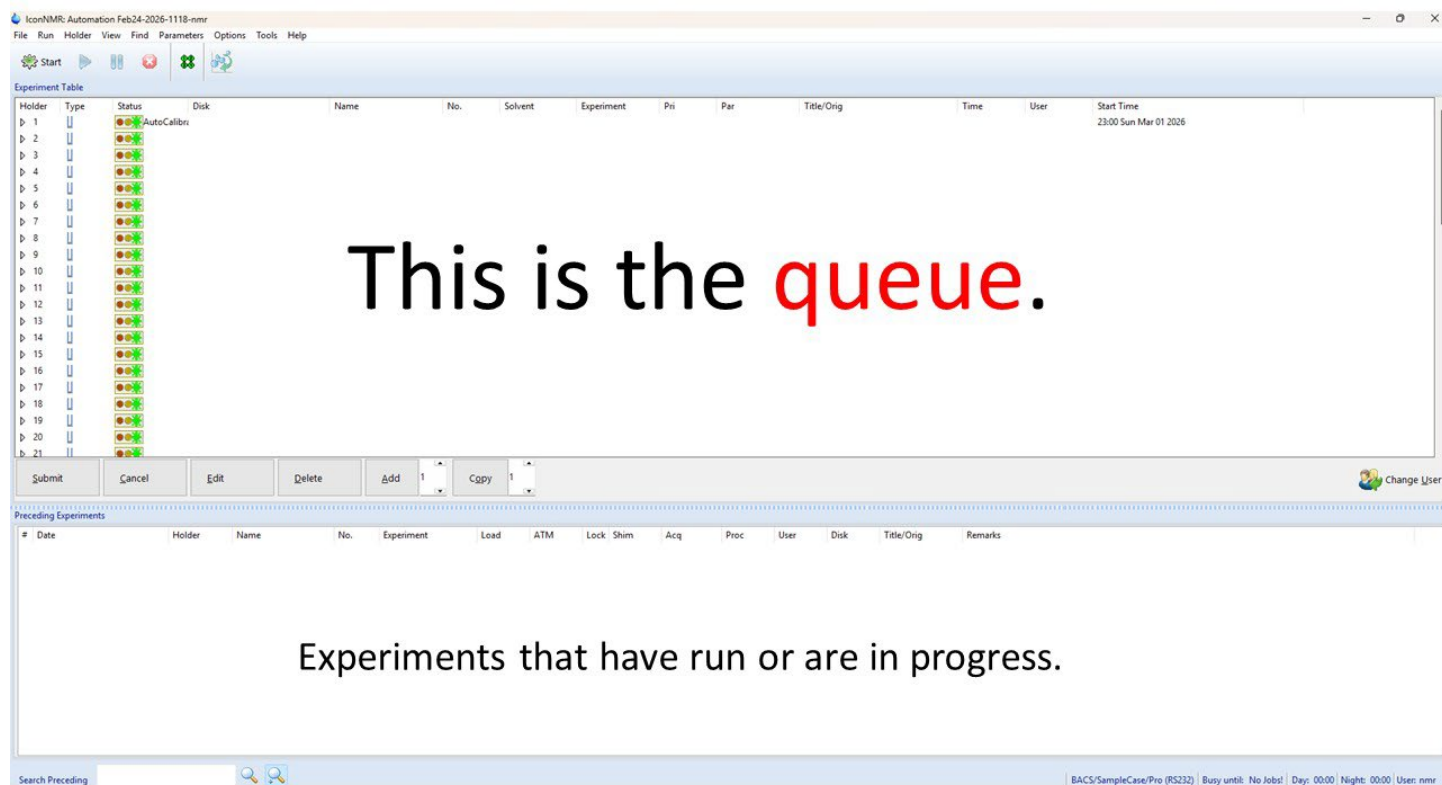
Updated 3/13/2026

The 300 (Tardis) has TopSpin 3.6.5, IconNMR, and a 24 spot SampleCase autosampler. The software that runs the SampleCase is called IconNMR.

Please note: all users of the 300 must be trained by a NMR Facility Staff Member
before they can use the instrument.

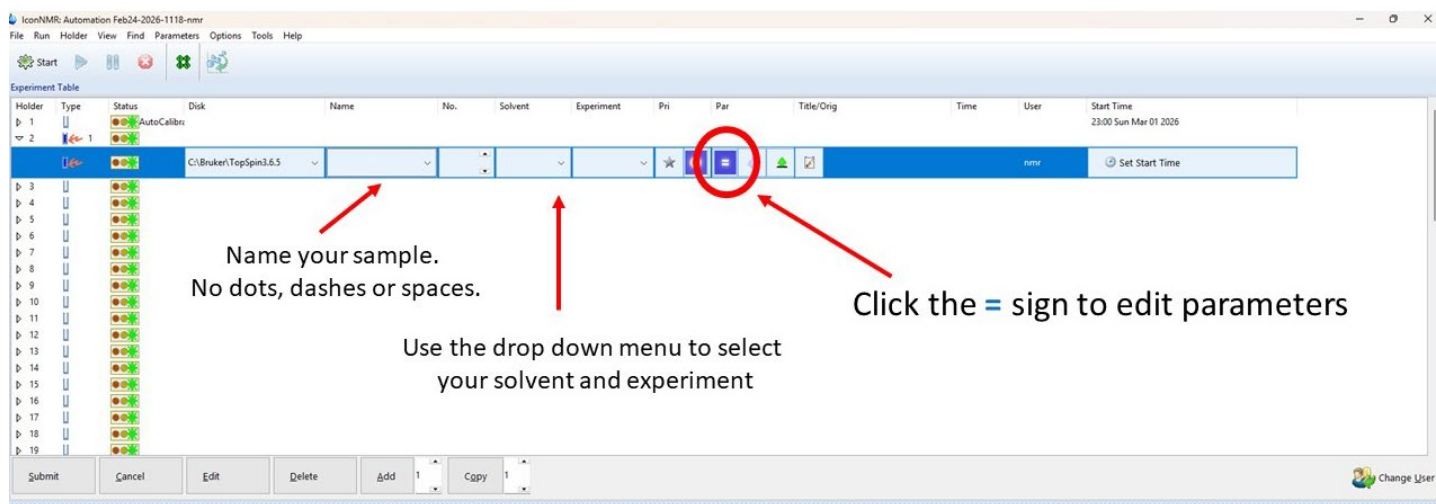
1. The Windows account that runs IconNMR is called **Tardis**. Do not log out of this account. If the screen locks, the password is *Tardis*.

The main IconNMR window looks like this:



2. Place your sample in a spinner, measure the tube depth properly with the depth gauge, and place your sample and spinner in an empty or finished position in the carousel on the instrument. **DO NOT REMOVE THE CALIBRATION SAMPLE IN POSITION 1.**

- Log into IconNMR with your user ID.
- In the queue window in IconNMR, click on the arrow to the left of the holder number.

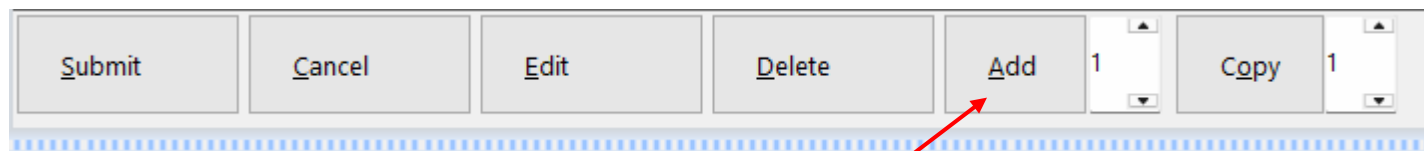


Do not change the data folder (this is where your data is saved under your user ID).

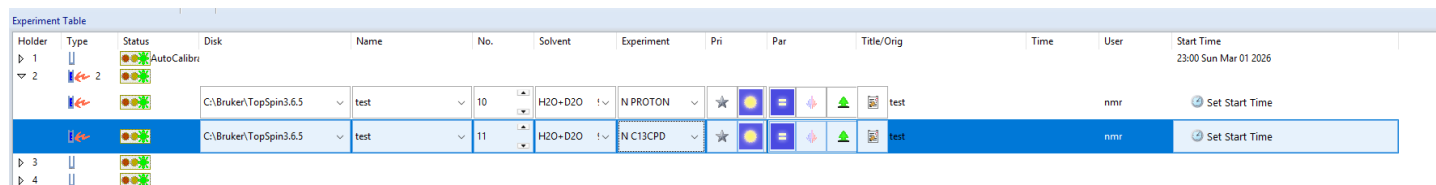
Name your sample. No dots, dashes, or spaces in the name.

Select your solvent and the experiment you want to run from the dropdown menu. If you would like to change any parameters, like the number of scans, click the blue equal sign.

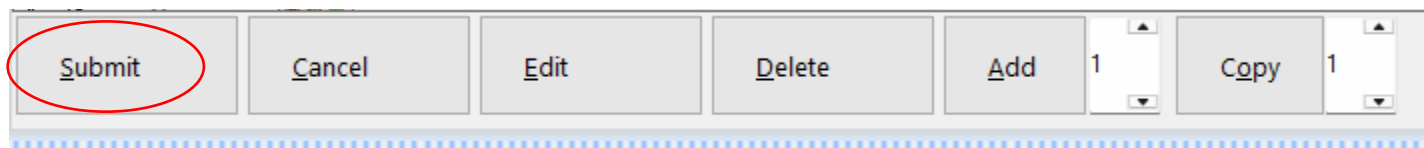
Add a title if you want, and you can enter an email address (recommend using a gmail address) here for the data to be sent to.



If you want to run multiple experiments on the same sample, click the **Add** button at the bottom of the queue window. This will add another row, and you can select an additional experiment from the dropdown menu.



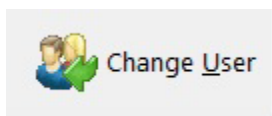
- Once you have entered your sample information, make sure you have your sample highlighted, and then click on **Submit**. You can edit your entry after it has been submitted (but before it has been run) by highlighting it and clicking Edit.



This is what a submitted entry looks like.

Experiment Table													
Holder	Type	Status	Disk	Name	No.	Solvent	Experiment	Pri	Par	Title/Orig	Time	User	Start Time
1	U	AutoCalibr											23:00 Sun Mar 01 2026
2	U												
3	U		C:\Bruker\TopSpin3.6.5	test	10	H ₂ O-D ₂ O	90% N PROTON	1	★	test	00:01:06	nmr	12:47 Wed Feb 25 2026
4	U		C:\Bruker\TopSpin3.6.5	test	11	H ₂ O-D ₂ O	90% N C13CPD	1	★	test	01:06:20	nmr	12:52 Wed Feb 25 2026

- Once you have finished submitting your samples, DO NOT close IconNMR or log off the computer.
- Do not forget to log out of IconNMR by clicking on Change User.



Autosampler Policies

- Do NOT remove any samples from the carousel unless you are 100% sure it has run. You can delete a completed experiment in the queue by highlighting it and clicking the Delete button.
- All samples MUST BE LABELED. No tape or tags, as these could get stuck in the autosampler.
- Please place samples you have removed from the carousel in the labeled beaker to the left of the lab door. All samples in the NMR Lab must be in a secondary container.
- First come, first serve.** If there are other samples in the queue, they must finish before yours will be run.
- Daytime hours are 8am to 7pm, with a one hour time limit. Nighttime limit is 6 hours, and weekends count as Nighttime.
- Data will be emailed to the email address you entered in the Title box. It is recommended you use a gmail account. The email address of the instrument is tardis300nmr@unm.edu. Make sure you check your junk or trash folders if you cannot find your data.
- Data will be saved temporarily on the instrument computer in `C:\Bruker\NMR_data\<user ID>`

