

How to Use SampleCase

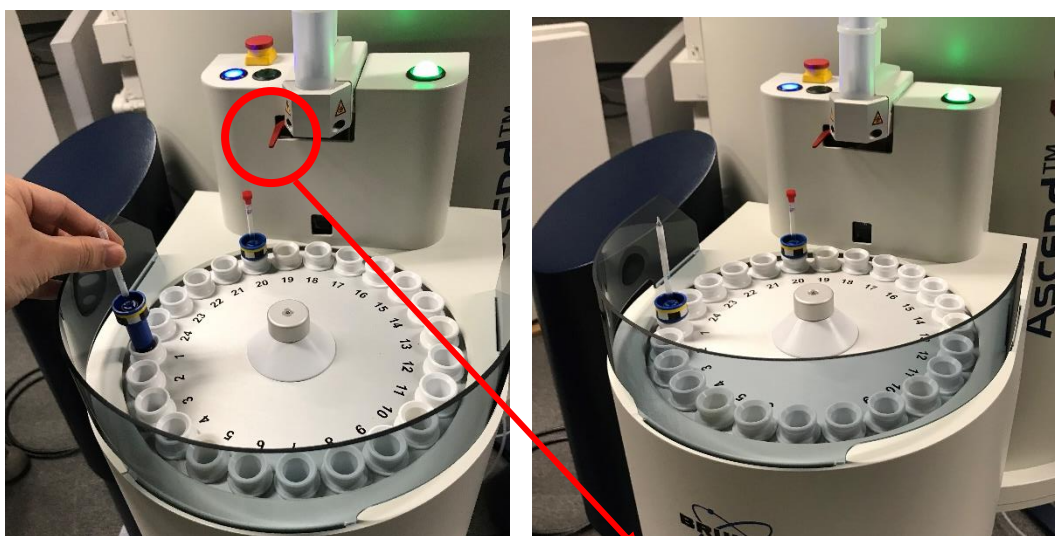
20200623 lzhu

Sample Load:

1. Use the gauge to insert your NMR tube into the blue spinner (for regular NMR experiments at 298K) Please refer to ***NMR Sample Prepare Guide*** for details.



2. Put the NMR tube into the Samplecase holder and remember the holder number



3. If the sample tube is **higher** than the **RED Overlength Latch** or it is **J-Young tube**, it is NOT compatible to Samplecase automation. **DON'T use it**. Talk to NMR staff for solutions.
4. Use the following command to insert/eject sample (**Recommend**)

Command	Meaning
sx 1, sx 2, ..., sx 24	Remove the current sample if there is one in the magnet. Then insert the sample in the selected position.
sx ej	Eject the sample from the magnet and place it back in the carousel.

Lighted Push Buttons

There are two push buttons on the left side of the system. The light is on if you can trigger their functionality.



Rotate Carousel Clockwise:

This button will rotate the carousel one holder when pressed or continuously when held down. The carousel can rotate only clockwise due to its design. It cannot be rotated if a tube is in the magnet and the sample gate is closed with a holder.



Inject / Eject Sample:

If there is a sample in the current position underneath the sample gate or in the magnet this button is active and will either inject or eject the current sample.



If the push buttons are not illuminated then they are not active. Pressing a dark push button will have no effect.



Ejecting a sample with the “Inject/Eject” button will only work when the spinning of the sample is off. Otherwise the SampleCase assume a running measurement.

Emergency Stop



The emergency stop will not power off the system but will exhaust the compressed gas in the SampleCase. The actors on the system, all pneumatic driven, will stop immediately and the system indicates an “Error” state. Releasing the emergency button will pressurise the system and reset the firmware. The system will go through the “Check” state first.



As long as the emergency button is pressed the system will be in error state and the SampleCase system is disabled. “ij” and “ej” commands from Topspin will then only switch on the BSMS lift for manual sample handling.



Releasing the emergency button will perform a firmware reset.

