

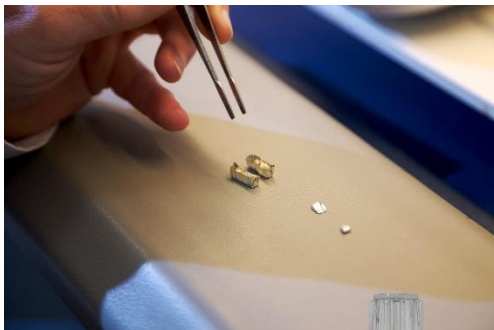
Preparing and Loading Samples

User Level 1

UNICUBE®

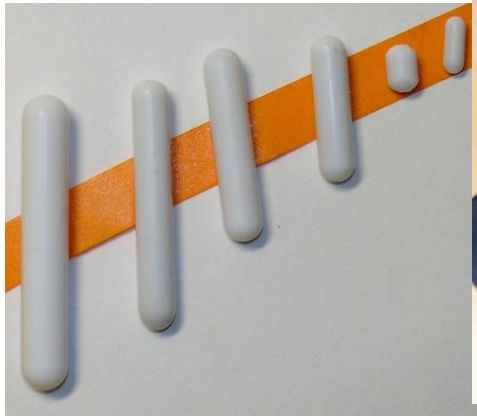


Sample Handling



- Avoid touching the sample or packing materials with your hands, especially if handling hazardous materials or measuring trace-level elemental concentrations.
- If the samples need to be dried, be sure to follow established procedures.
 - Volatile compounds containing the elements of interest can be lost during the drying process.

Taking a Sample



- Solid materials should be thoroughly mixed before sampling.
- Solutions with particulates should be stirred **during** sampling.
- Consistency is very important.
- Try to take a representative sample of heterogenous materials.
 - Stirring might actually cause more separation.

Carousel Loading



- Sample number in the software does not necessarily correspond to sample position on the carousel.
- When opening a new file, sample number 1 is wherever the sample carousel currently is; the carousel position is not automatically reset.

Samples			
	Weight [mg]	Name	Method
♦ 1	100.0000	Blank	Blank with O2
♦ 2	100.0000	Blank	Blank with O2
♦ 3	4.2350	RunIn	5mg Standard
♦ 4	4.2400	RunIn	5mg Standard
♦ 5	4.1350	sulfanilic acid	5mg Standard
♦ 6	4.1520	sulfanilic acid	5mg Standard
♦ 7	3.9770	sulfanilic acid	5mg Standard
♦ 8	10.2180	leaves	Plant

Matching Carousel Position and the Software

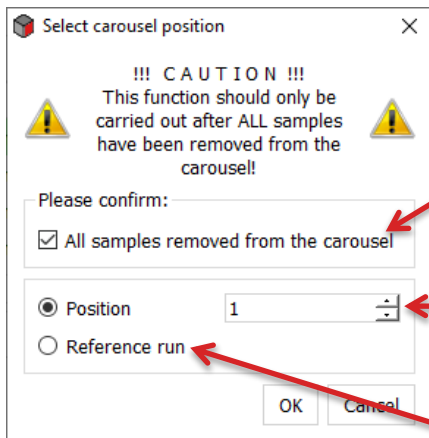
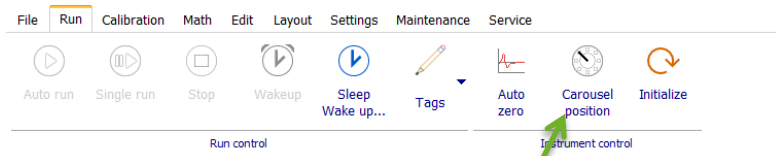


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- In the sample view of the software, the row with a green background is designated as the “current sample”.
- In the example on the left, the analyzer is in standby, so the current sample (No. 1) will correspond to carousel position 28, No. 2 is position 29, and so forth.

Analyzer Status	Current Sample
Standby	Right of the ball valve
Running before throw-in	Right of the ball valve
Running after throw-in	At the ball valve

Adjusting the Carousel Position



The sample carousel position can be adjusted using the menu:
Run > Carousel position

Remove all samples from the carousel and check the corresponding box in the dialog.

The carousel can be sent to a specific position using the selection box (current sample is now the new position plus 1).

Selecting "Reference run" will check the carousel alignment and reset to position 0 (60) (current sample is now position 1).