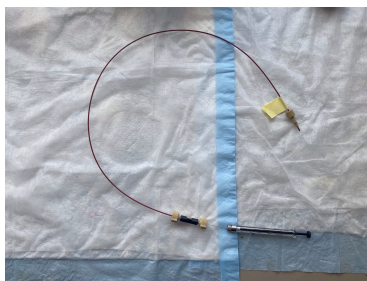
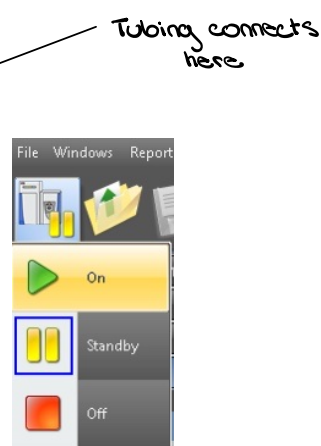


Before you begin, clean both needles 4x with 100% LC-MS methanol and then 4x with tubing attached. Take up 100-150 microliters CalMix solution of corresponding polarity. Pay attention not to mix up needles and polarity.



1. Mount needles on automatic dispenser apparatus and connect tubing to API source.

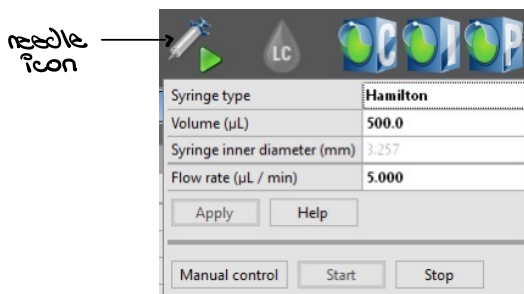


2. Go to Tune and turn the mass spectrometer on.
3. Go to File and select load tune file. Select CalMix calibration.mstune.file.
4. Choose appropriate polarity that matches calibration mix.
5. Turn syringe needle on by clicking on needle icon and wait until triangle is green. Make sure settings are correct:

Volume: 500uL

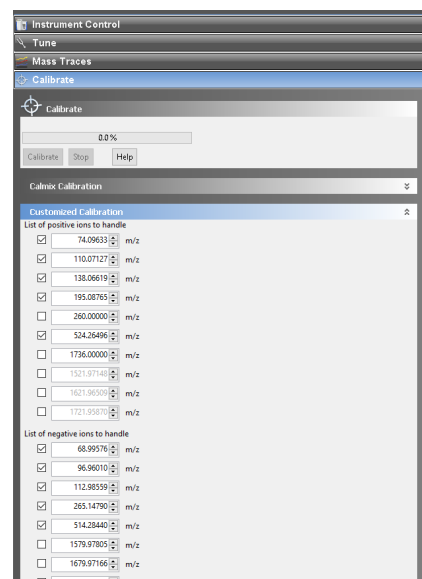
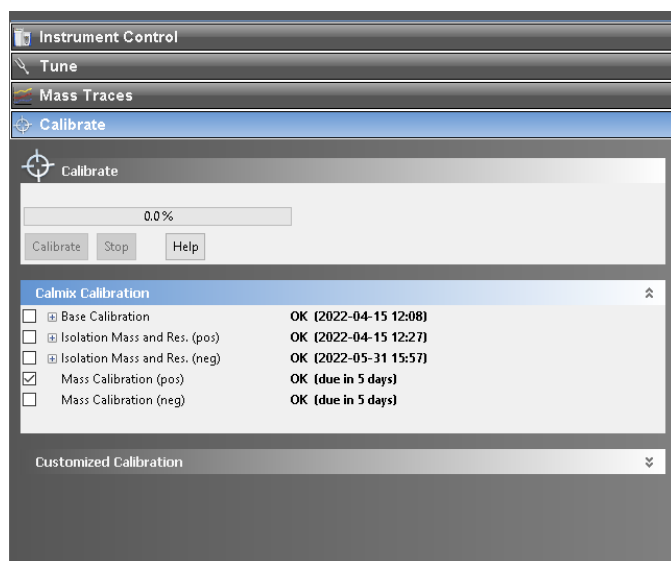
Flow rate: 5.0 uL/min

Syringe type: Hamilton



6. Wait for TIC signal to stabilize, TIC < 12% variation. Look for the expected pattern of ions.
7. Under the calibration tab, choose correct polarity to calibrate. Start calibration. Note down results in QEF1/QEF2 notebook when calibration is done: take note of error.
8. Go to Instrument Control tab, then go to File and load LowMass calibration.mstune file. Make sure correct polarity is selected.
9. Wait for signal to stabilize, TIC < 6% variation.
10. Go to calibration tab and expand CalMix tab. Start calibration. Note results.
11. Go to File and select load tune file. Select CalMix calibration.mstune file. Choose the opposite polarity for the next set of calibrations.

Switch needles, swap polarity to be calibrated, and repeat from #4 on.



Ensure correct polarity

