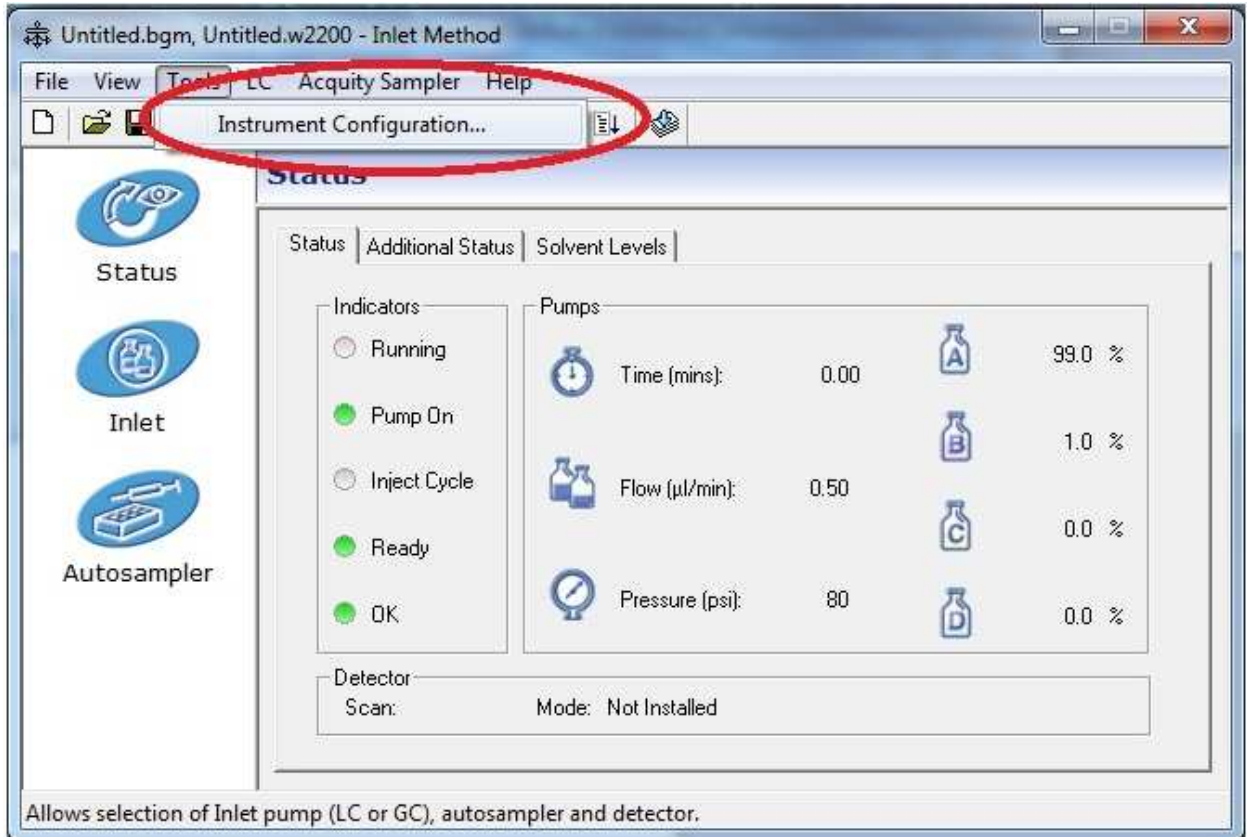
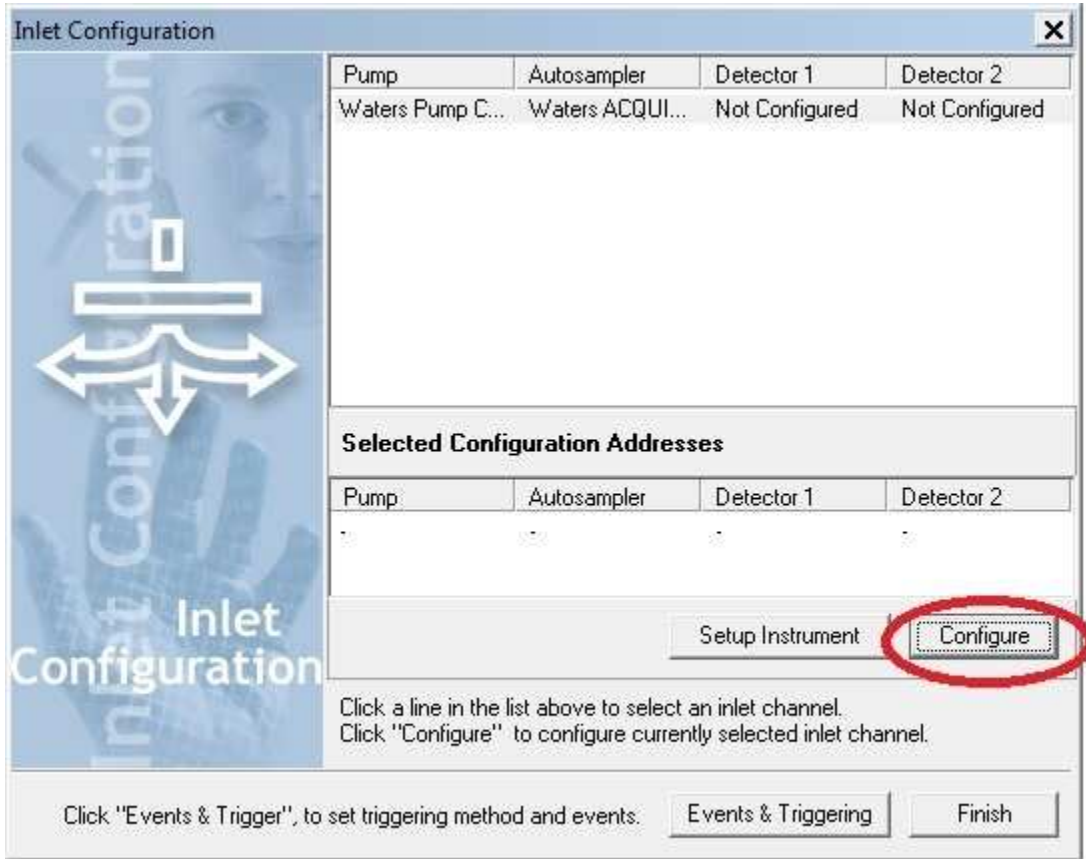


Conversion M-class to I-class

1. Close Acquity Console
2. In Inlet Editor, choose Tools->Instrument Configuration



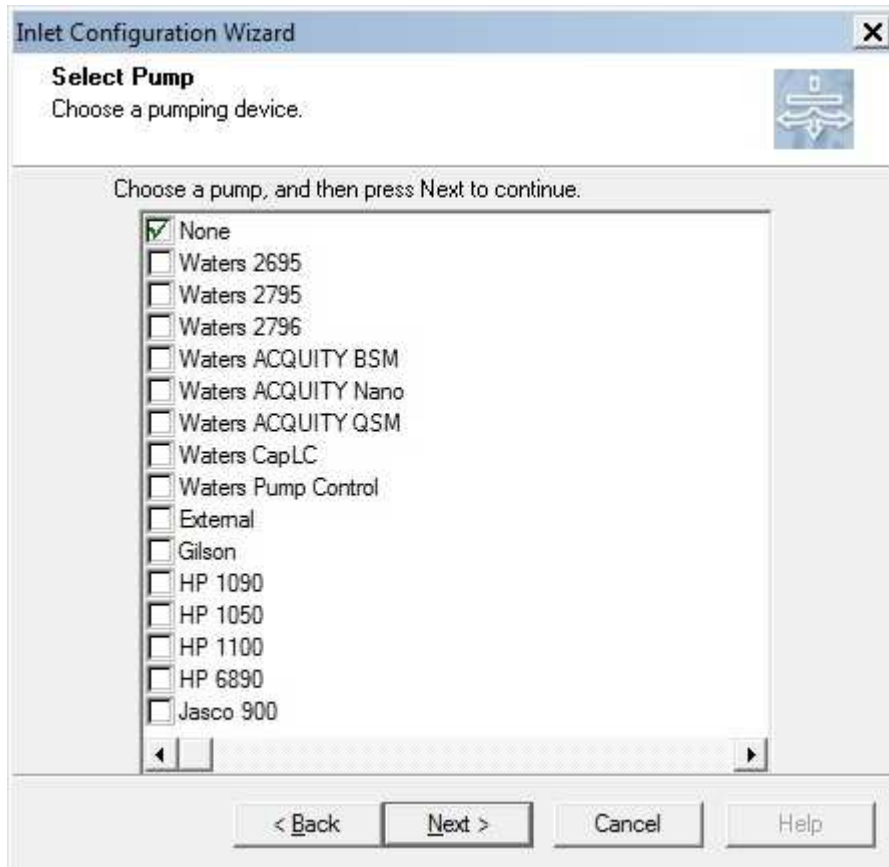
3. Click Configure



4. Click Next

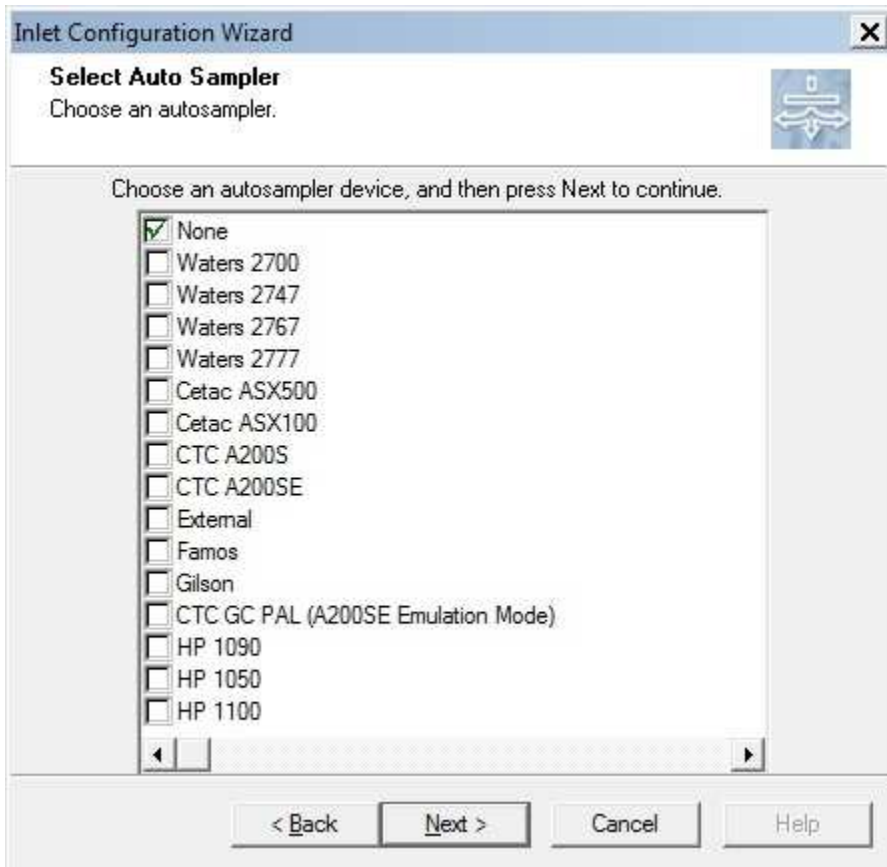


5. Select None for Pump



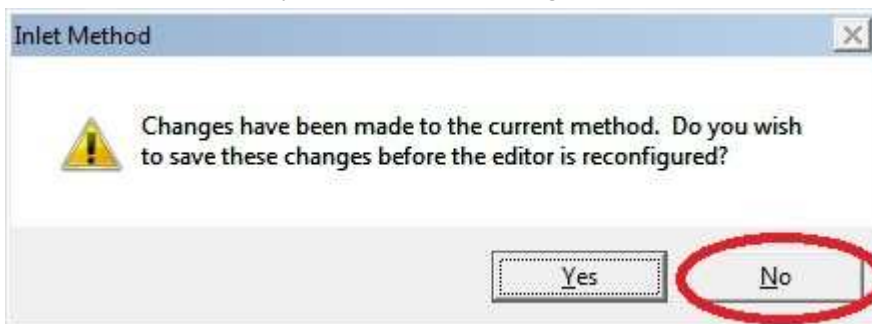
Then click Next

6. Select None for Auto Sampler



Then click Next

7. Click Next, then Finish, then Finish again to exit Inlet Configuration
8. Click No when asked if you want to save changes.

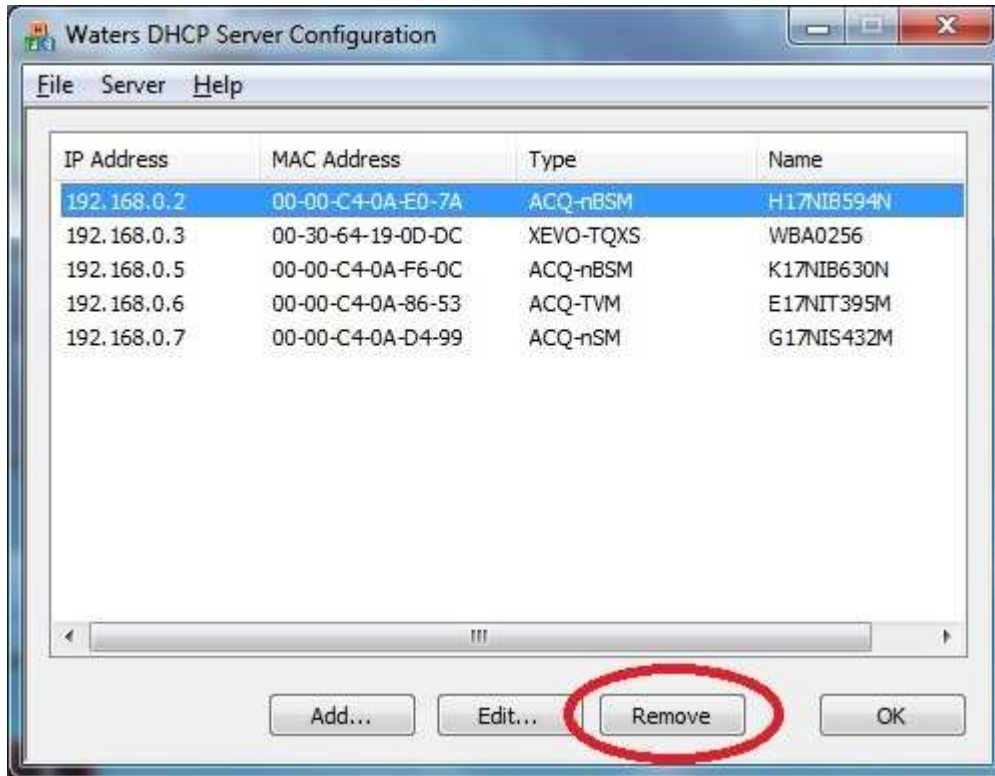


9. Close the Inlet Editor and exit Masslynx. Again, click No when asked to save changes.
10. Power off all M-class modules.

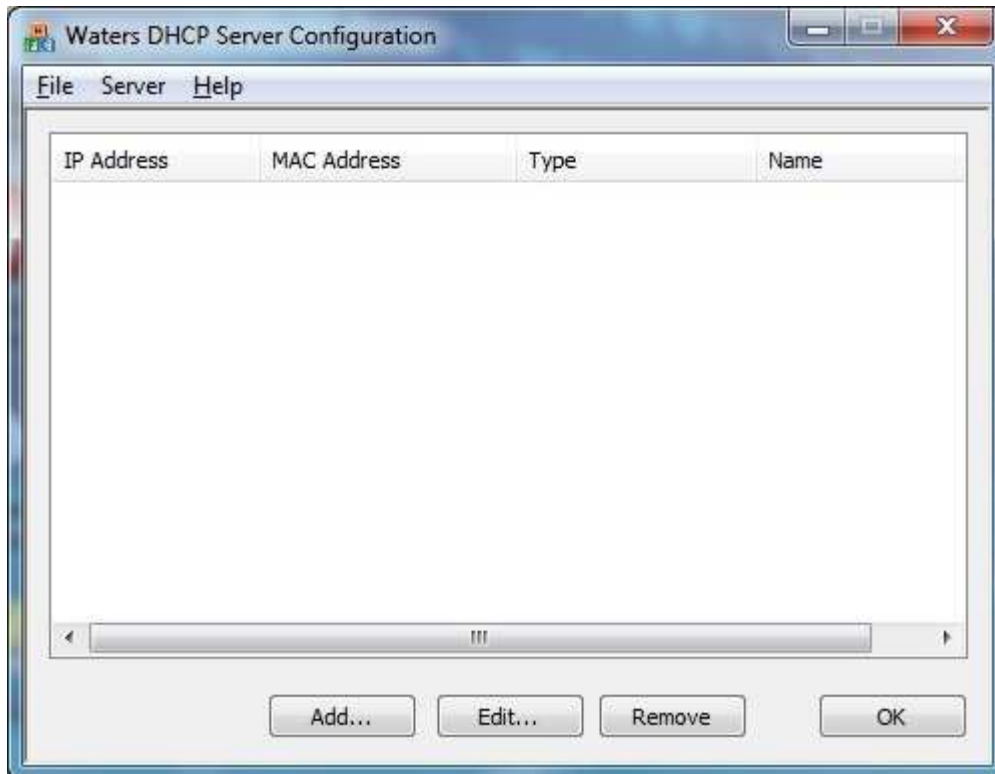
11. Open Waters DHCP Server Configuration.exe on the desktop



12. Select each module in turn and click Remove. Say Yes to the confirmation prompt.



13. When finished, the configuration should be empty:

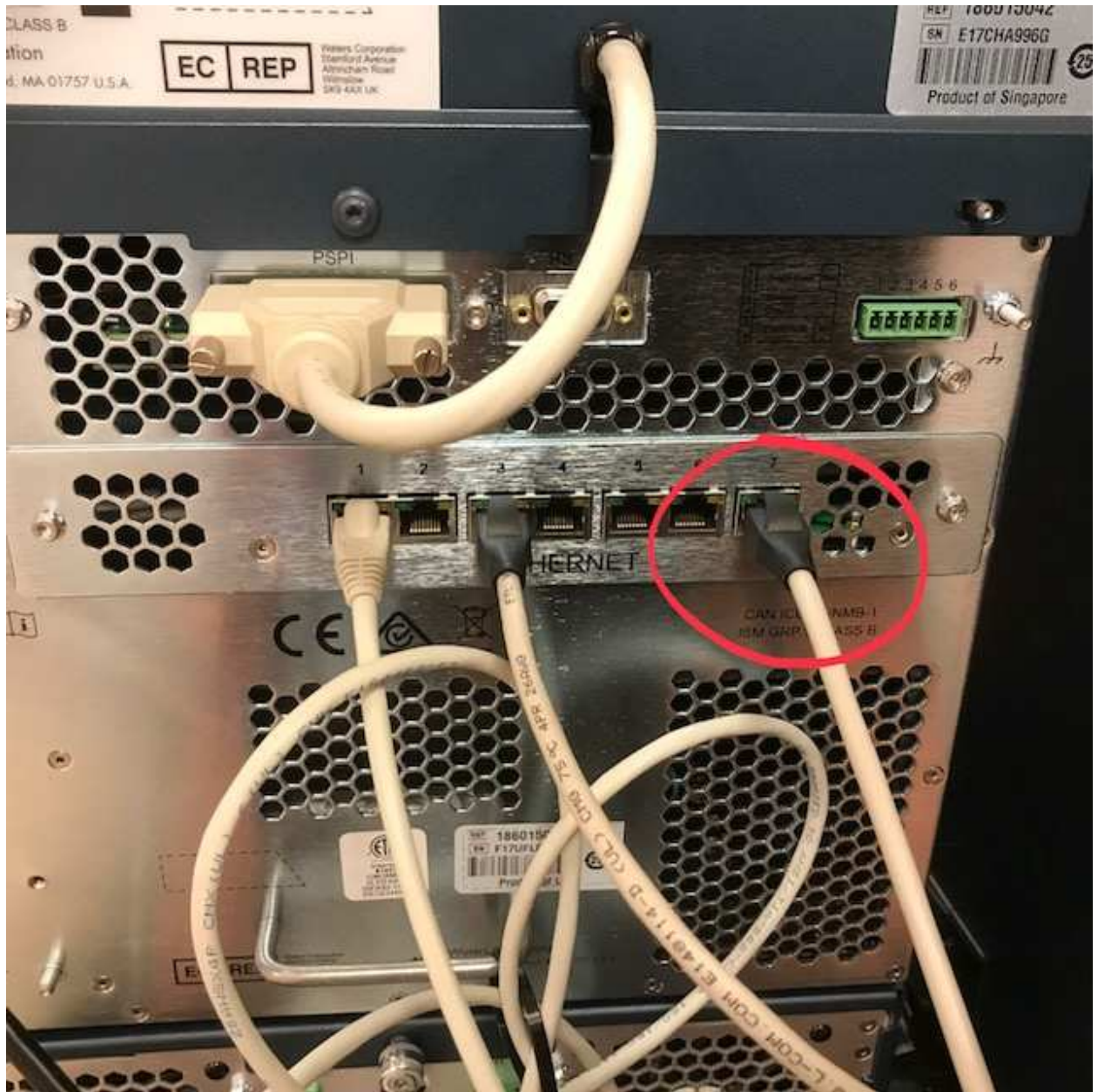


14. Close Waters DHCP Server Configuration.exe

15. Move the Xevo TQ-XS Ethernet cable from the M-class switch to the I-class switch.

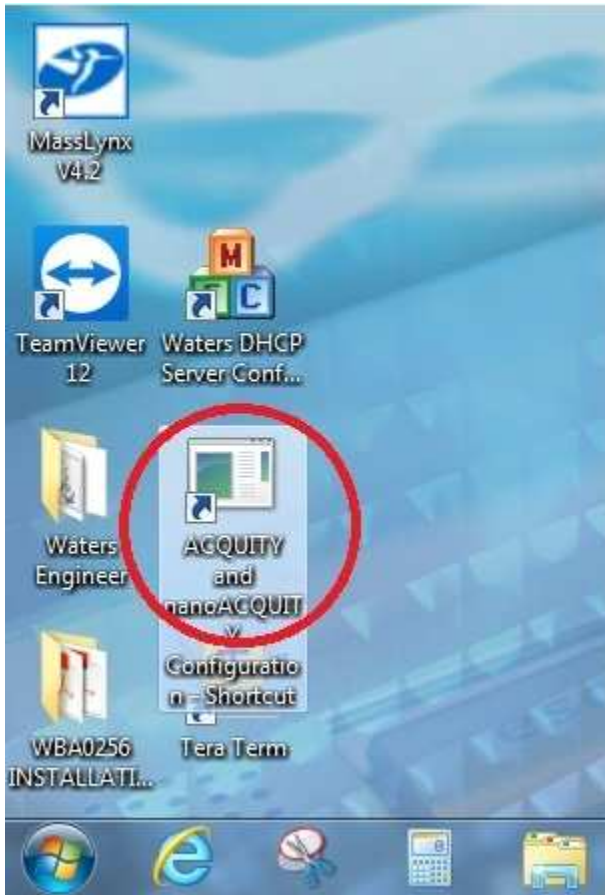


M-class

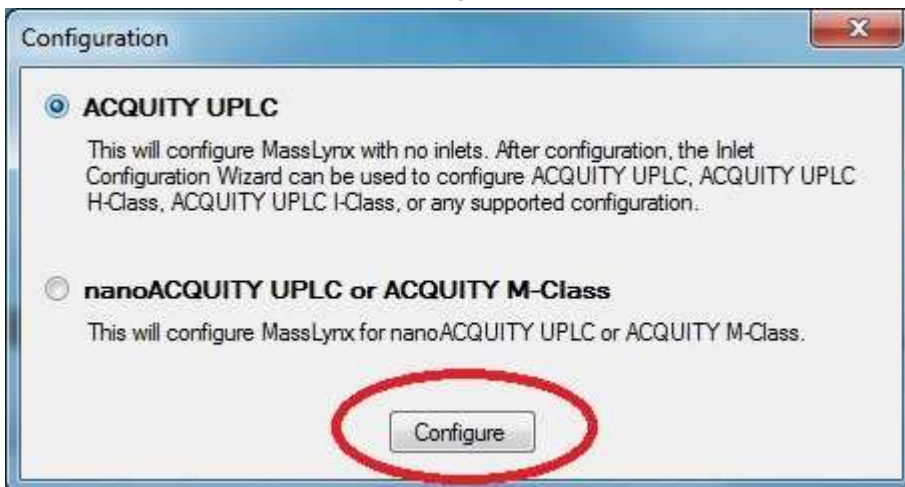


- I-class
- 16. Reboot Masslynx PC.

17. Open the ACQUITY and nanoACQUITY Configuration.exe shortcut on the desktop



18. Choose ACQUITY UPLC and click Configure

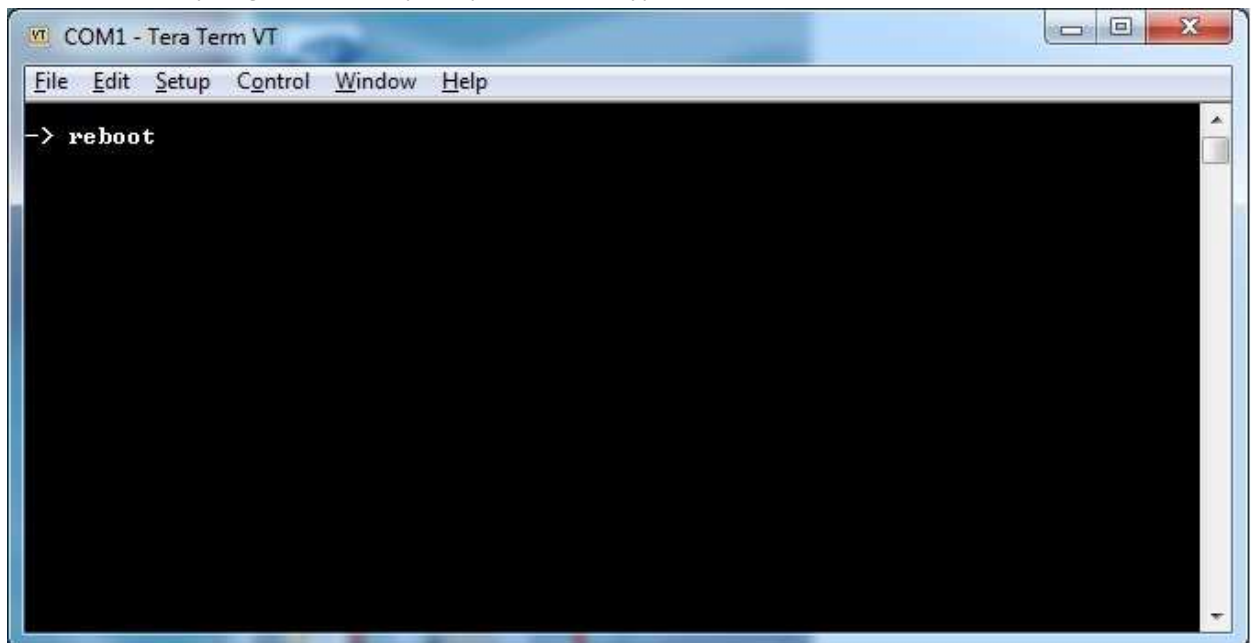


19. Open Waters DHCP Server Configuration.exe
20. Turn on both I-class modules.

21. Run Teraterm on the desktop



22. Hit the enter key to get an arrow prompt (->), then type "reboot <enter>"



23. Wait for the EPC to reboot. When it is done teraterm will display this:

```

COM1 - Tera Term VT
File Edit Setup Control Window Help
value = 0 = 0x0
UpdateBoardDiagnosticsInfo()
[5335594599154] (tShell0): UpdateBoardDiagnosticsInfo called
[5335594610278] (tShell0): CLancasterApp::UpdateBoardDiagnostics called
[5358856421038] (tShell0): ReadPCIRegisterWord read succesfully Addr = 0x180 - D
ata = 0x4402
value = 1 = 0x1
SetParameterUpdateDelay 5
value = 5 = 0x5
taskDelay(10000)
[5360512778882] (STAT_RBS): ERROR: No response from board ID:0xd1
[5362645360326] (STAT_RBS): ERROR: No response from board ID:0xd1
[5364782234594] (STAT_RBS): ERROR: No response from board ID:0xd1
[5366919110478] (STAT_RBS): ERROR: No response from board ID:0xd1
[5369055986054] (STAT_RBS): ERROR: No response from board ID:0xd1
value = 0 = 0x0
chime
value = 0 = 0x0

Done executing startup script 'script6_9.txt'.
->

```

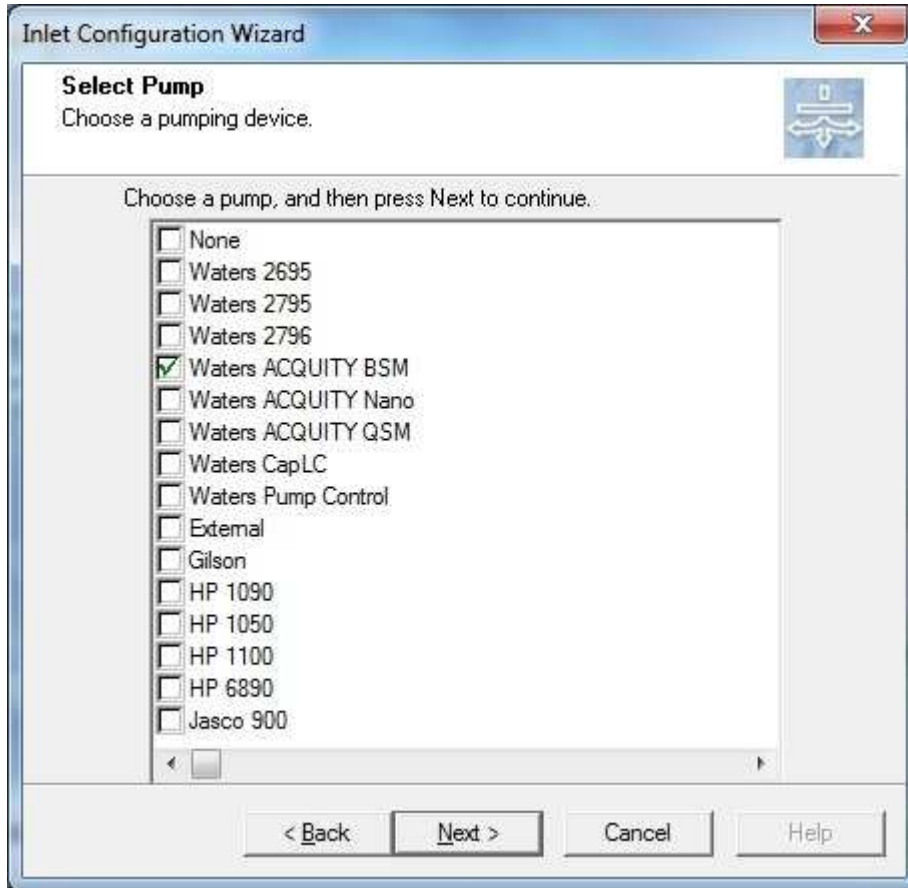
This is a standard way to reboot the EPC.

24. Close teraterm.

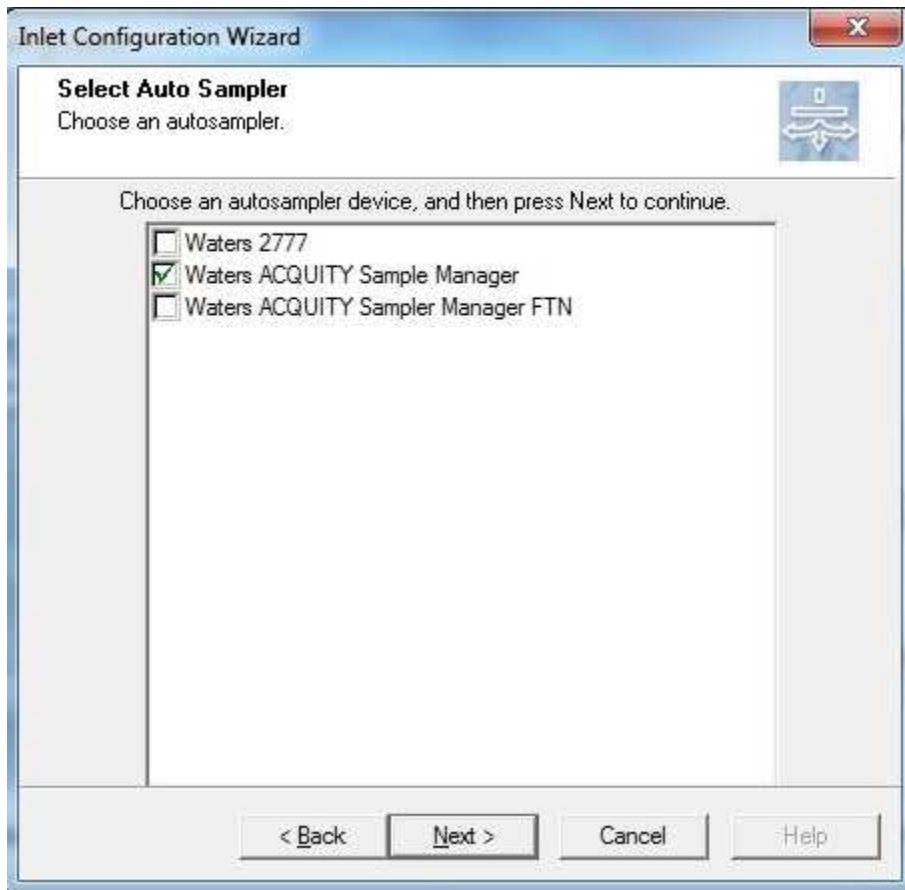
25. The Waters DHCP Server Configuration.exe window should display both I-class modules and the Xevo TQ-XS:

IP Address	MAC Address	Type	Name
192.168.0.2	00-30-64-19-0D-DC	XEVO-TQXS	WBA0256
192.168.0.4	00-00-C4-0A-D0-80	ACQ-BSM	F17BUR634G
192.168.0.5	00-00-C4-0A-C9-F6	ACQ-SM	F17JFL062M

26. If so, close Waters DHCP Server Configuration.exe
27. Start Masslynx, go to the Inlet Editor and choose Tools->Instrument Configuration as above, then click Configure, then Next
28. For the pump, choose Waters ACQUITY BSM



29. For the pump, choose Waters ACQUITY Sample Manager



30. Click Next, Finish, Finish to exit the Inlet Editor, and OK at the setup prompt.

31. Open the console from the Masslynx Main window to ensure all the modules are present.

The screenshot shows the Masslynx Console (Local) - [System] window. The window title is "Console (Local) - [System]". The main area is divided into several sections:

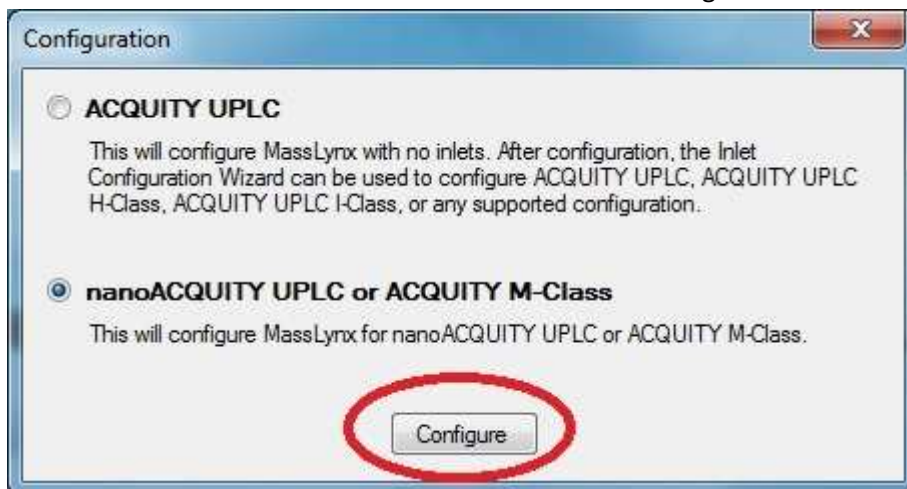
- System Status:** A green circle icon indicates the system is online. Below it, the text reads "Xevo TQ-XS MS Detector: Instrument in standby".
- Binary Solvent Manager:** This panel shows the flow rate and composition. The flow rate is 0.000 mL/min. The pressure is -1 psi. The composition is 100.0% A1 and 0.0% B1.
- Sample Manager:** This panel shows the temperature and status of the sample and room. The column temperature is 21.7 °C, the sample temperature is 22.3 °C, and the room temperature is 21.1 °C. The sample and room status are both "Off".
- Xevo TQ-XS MS Detector:** This panel shows the detector type as "NanoFlow+", the camera status as "Off", and the flow path as "LC".

The window also features a sidebar on the left with a tree view containing the following items: System, Binary Solvent Manager, Sample Manager, Column, Xevo TQ-XS MS Detector, Plots, Maintenance Counters, and Logs. At the top of the main area, there are menu options: Control, Configure, Maintain, Troubleshoot, and Help. On the right side, there are several icons for system control: Flow, Stop Flow, Operate, API, and Collision.

32. You are now ready to open a method in the inlet editor or use the console to control the I-class.

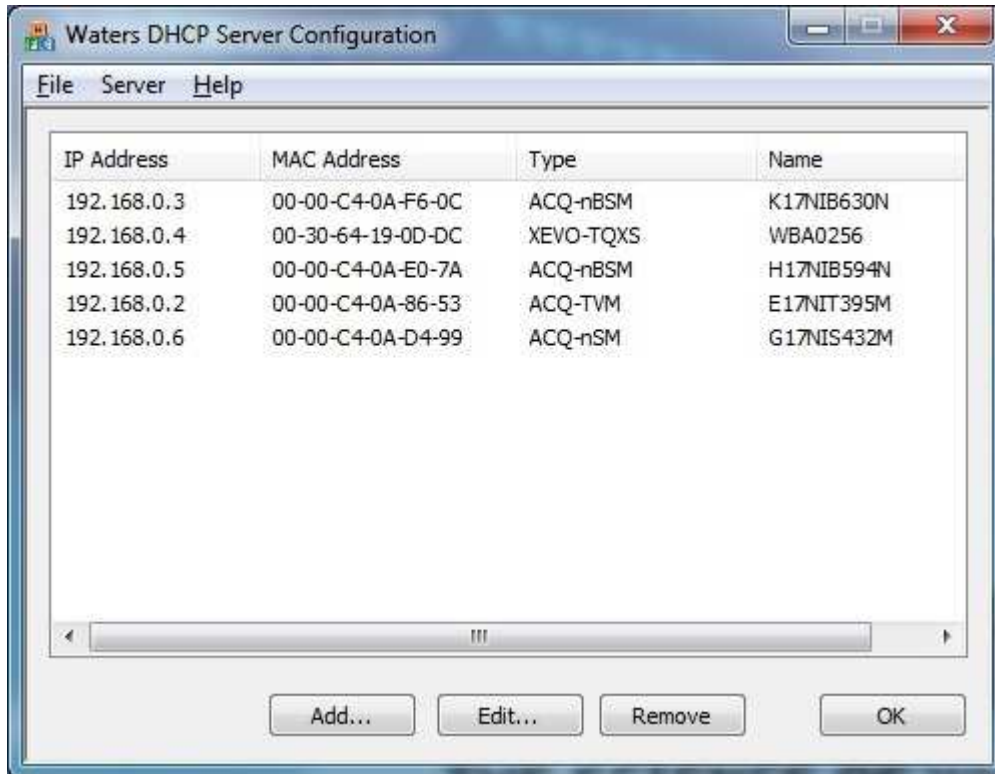
Conversion I-class to M-class:

1. Close the console
2. Open the Inlet Editor and deconfigure the inlet as described in the M-class to I-class section. Choose None for Pump and Autosampler. Then click through to exit Instrument Configuration, say no to the Save prompts, and exit the Inlet Editor.
3. Exit Masslynx
4. Power off both I-class Modules.
5. Open Waters DHCP Server Configuration.exe. Select each module in turn and click Remove. Then close Waters DHCP Server Configuration.exe
6. Move the Xevo TQ-XS Ethernet cable from the I-class switch to the M-class switch.
7. Reboot the Masslynx PC.
8. Run the ACQUITY and nanoACQUITY Configuration.exe shortcut from the desktop. Select "nanoACQUITY UPLC or ACQUITY M-Class" then click Configure



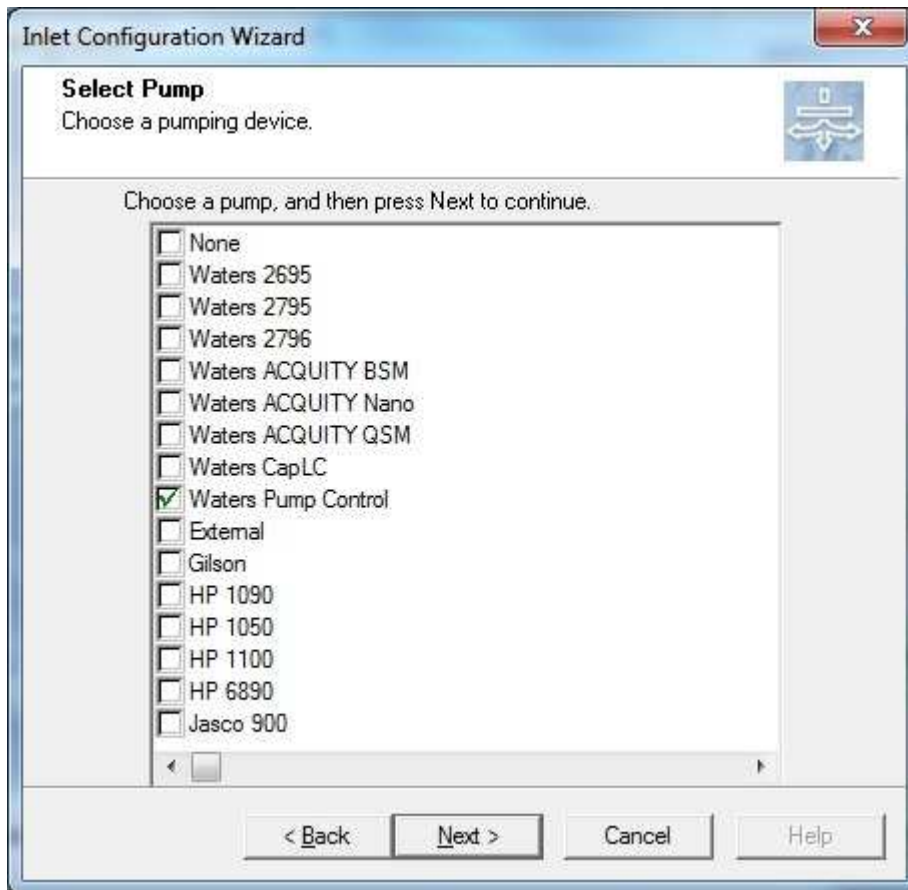
9. Open Waters DHCP Server Configuration.exe from the desktop
10. Power on all the M-class modules.
11. Open teraterm and reboot the EPC, as described in the M-class to I-Class conversion section

- Wait until all five modules are present and have their serial numbers displayed.

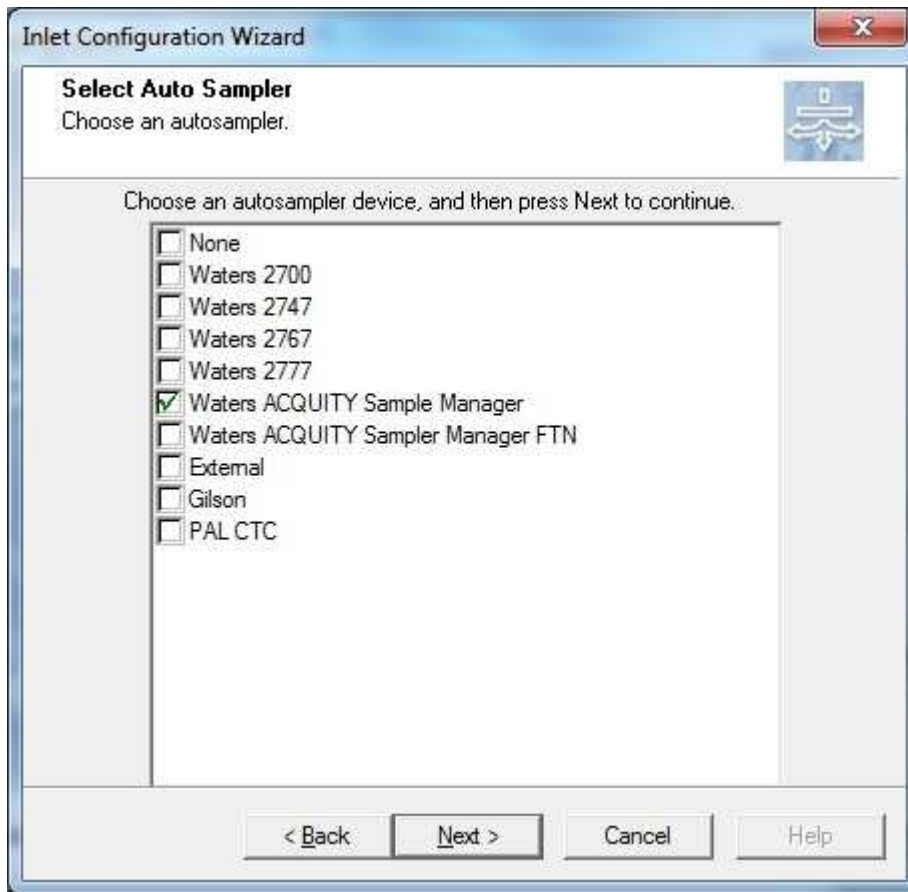


- If so, then close Waters DHCP Server Configuration.exe and teraterm.
- Start Masslynx
- Open the Inlet Editor, and go to Tools->Instrument Configuration->Configure

16. For Pump, make sure that Waters Pump Control is selected



17. For Autosampler, select Waters ACQUITY Sample Manager

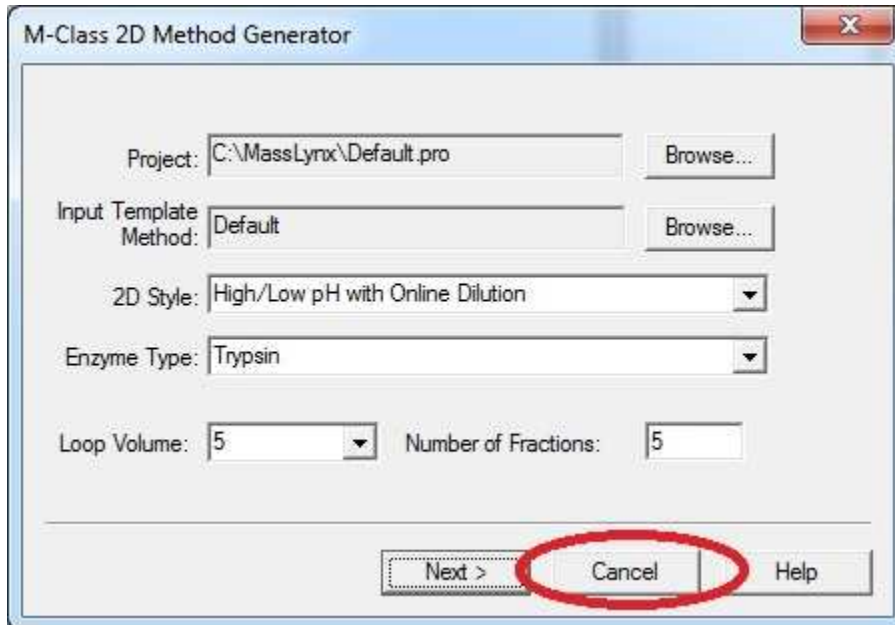


18. Click through and exit.

19. Click Inlet in the Inlet Editor.



20. Click Cancel on the 2D Method Generator dialog that pops up



21. On the Modify Instrument Method page that appears next, click Config

The screenshot shows a software dialog box titled "Modify Instrument Method (Untitled.bgm)". The main section is "Chromatographic Pump" with a "Run Time" of 1.00 min. There are three tabs: "Mobile Phase", "Events", and "Analog".

Under "Mobile Phase", there are two sections:

- Solvent Selections:** A: A1 A2; B: B1 B2
- Solvent Names:** A: A1; B: A2
- Pressure Limits:** Low: 0 psi; High: 6000 psi

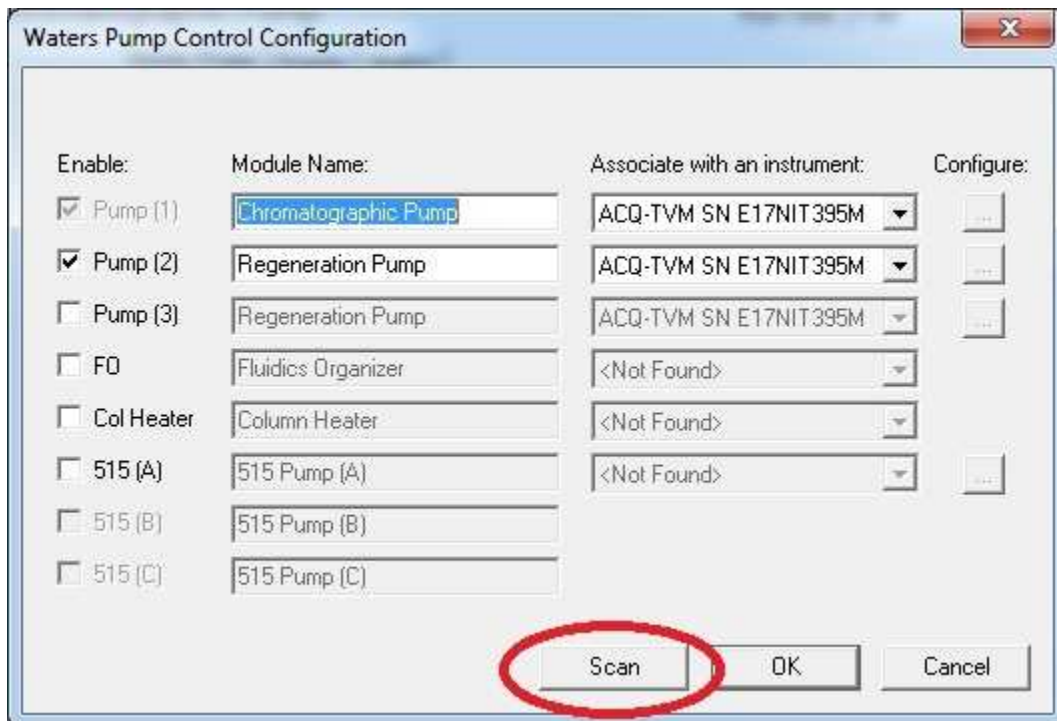
Below these is the **Gradient** section with radio buttons for "System" (selected) and "Pump Only". To the right is the **Seal Wash Period** set to 5.0 minutes.

A table with 6 rows and 6 columns is present:

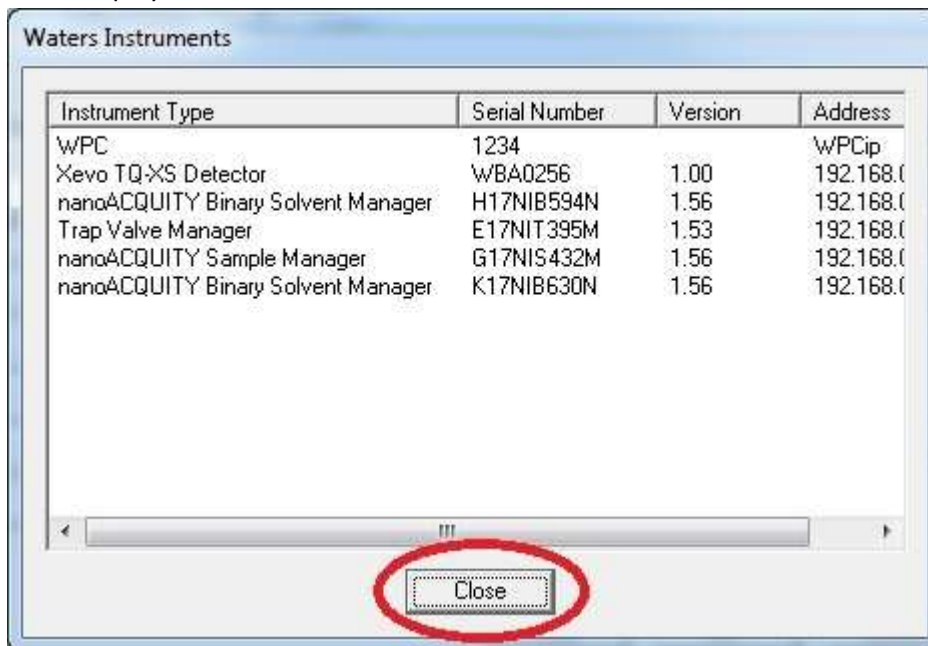
	Time (min)	Flow (mL/min)	%A	%B	Curve
1	Initial	0.00	100.0	0.0	Initial
2					
3					
4					
5					
6					

At the bottom, there is a "Comment:" text box and three buttons: "Config" (circled in red), "OK", and "Cancel".

22. Click Scan to populate the instrument modules



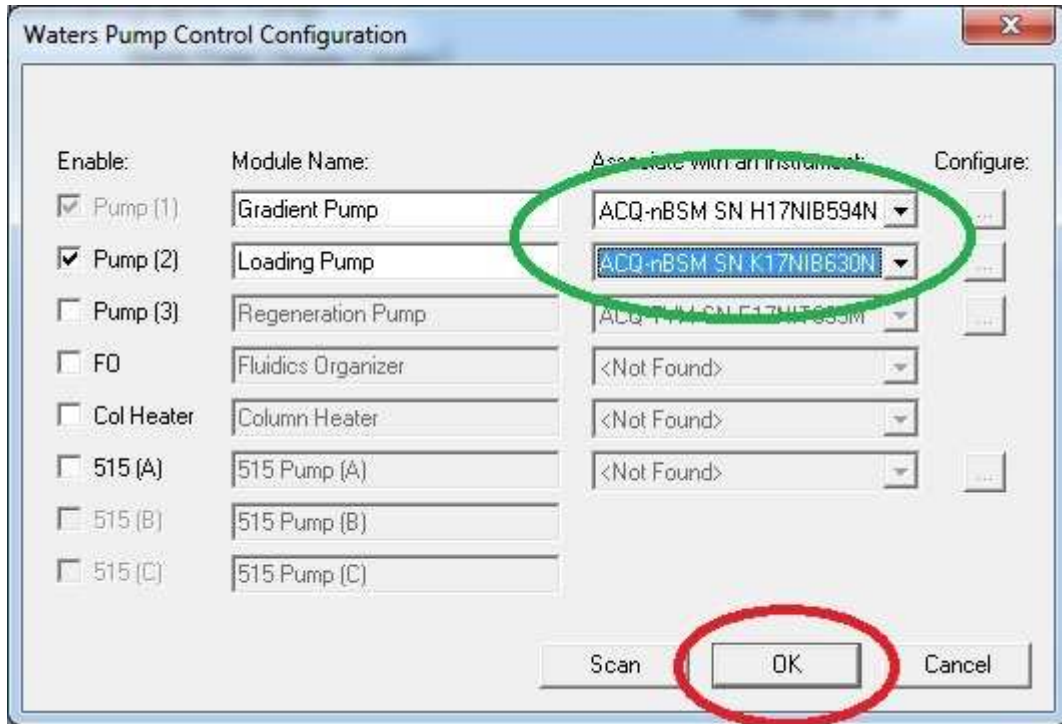
It will display a list of all the modules



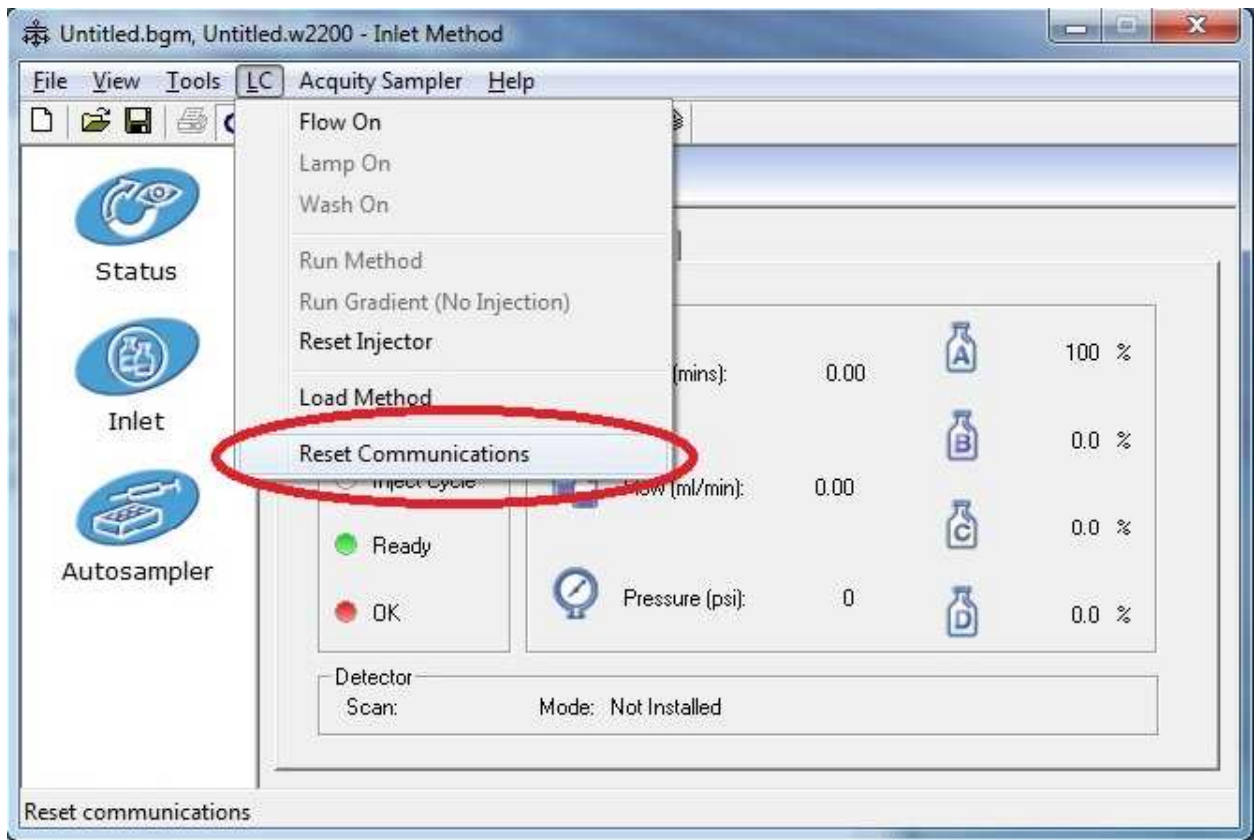
Click Close

23. Optionally, rename "Chomatographic Pump" as "Gradient Pump" and "Regeneration Pump" and "Loading Pump"
24. In the dropdown next to Gradient Pump, select serial number H17NIB594N (this is the lower uBSM)

- 25. In the dropdown next to Loading Pump, select serial number K17NIB630N (this is the upper uBSM)
- 26. Click OK



27. Click OK at the prompt, close the Modify Method screen, then choose LC->Reset Communications



28. Click Inlet again, and Cancel at the Method Generator
29. In the Mode dropdown, click Trapping

Modify Instrument Method (Untitled.bgm)

Gradient Pump Run Time: 30.00 min

Mode: Direct Injection
Direct Injection
Trapping

Anal. | Data | Analog Out | Events

Solvents: A1: Water, B1: Acetonitrile

Pressure Limits: Low: 0 psi, High: 10000 psi

Seal Wash: 30.0 min

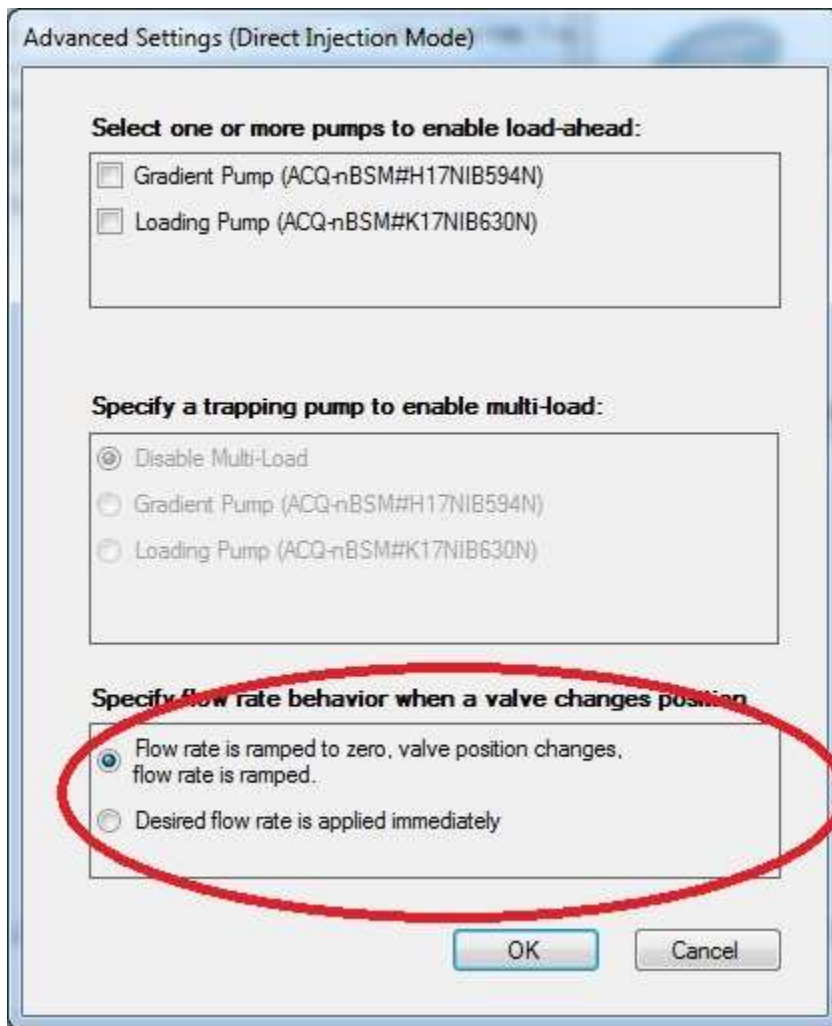
Gradient

	Time (min)	Flow (µL/min)	%A	%B	Curve
1	Initial	0.300	97.0	3.0	Initial
2					
3					
4					
5					

Comment:

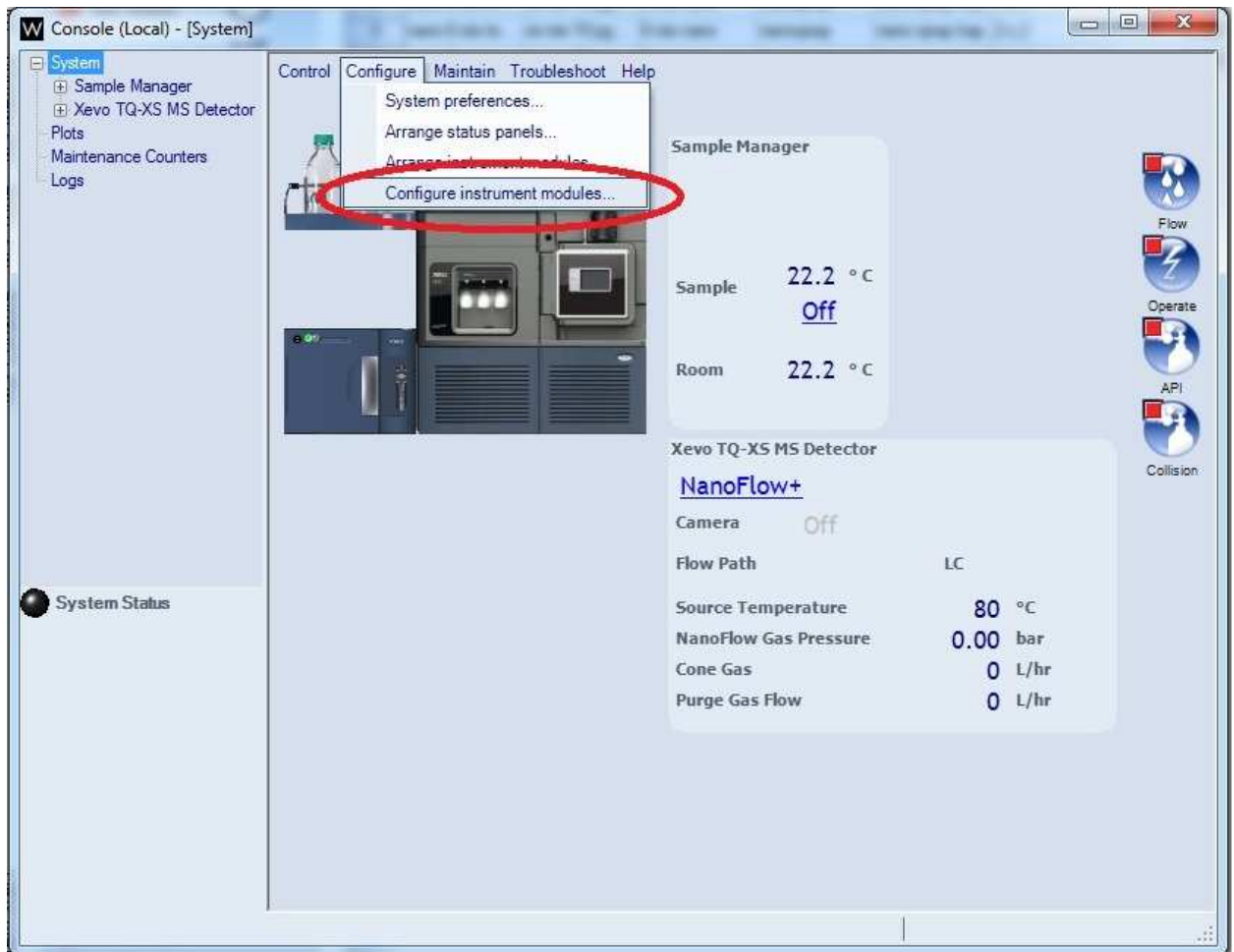
Advanced OK Cancel

30. Click Advanced to show the advanced options, and make sure that "Flow rate is ramped to zero..." is selected, then click OK to exit.

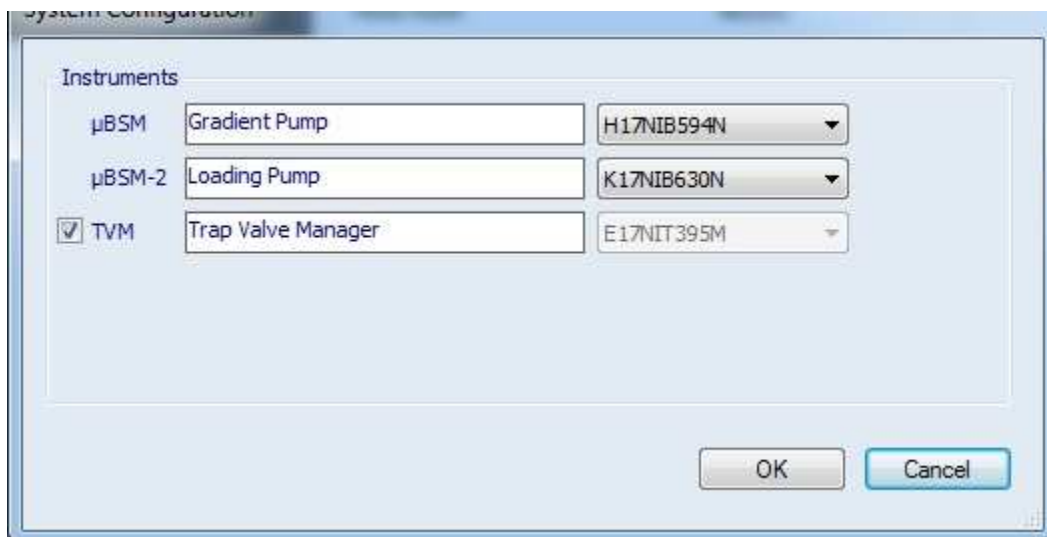


31. Click OK to exit, but leave the Inlet Editor running.

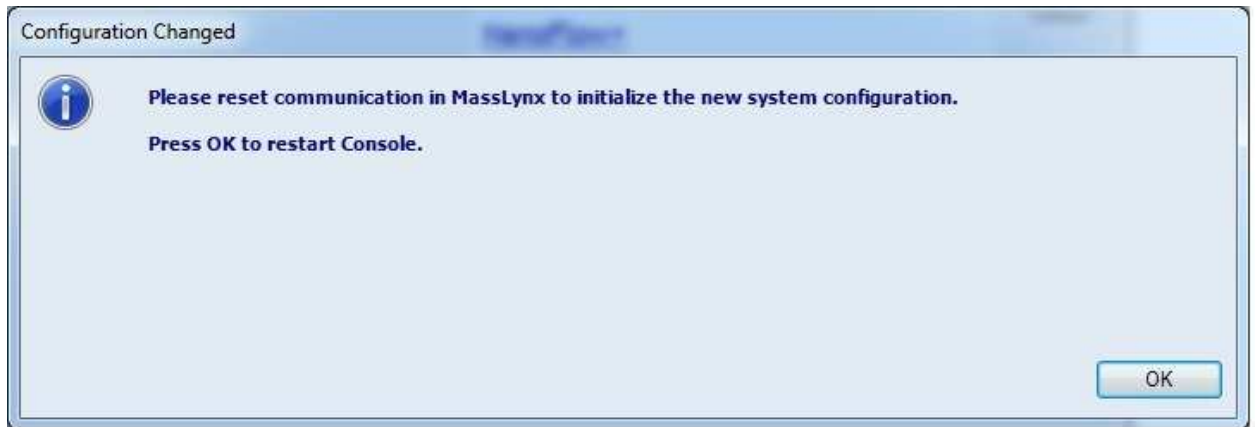
32. Open the console from the Masslynx main window.



33. Check that the modules are listed as shown and click OK:



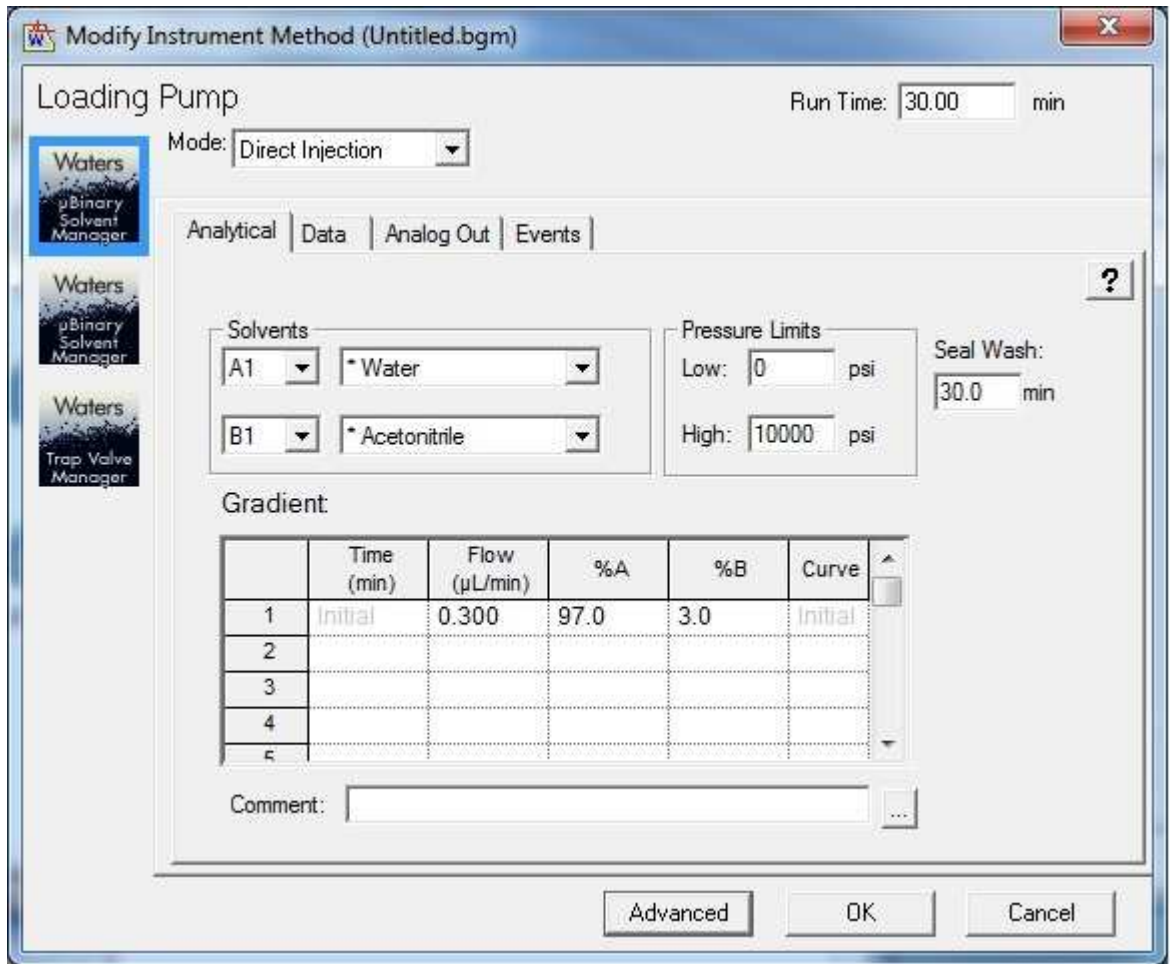
34. You will see this screen: Do not click OK yet!



35. First, go to the Inlet Editor and choose LC->Reset Communications. Then return to the console and click OK. Wait for the console to come back up. It should look like this:



36. In the Inlet Editor, click Inlet. The Modify Instrument Method page should now look like this:



You are now ready to open a method or control the M-class from the console.