

Set up communications between computer and Agilent Agilent 8453 Spectrometer

1. Make sure that there is a crossover cable between the computer LAN connection and the adaptor board in the Agilent 8453. The lights should blink in the adaptor board in the Agilent 8453.
2. Logon to the computer as **ChemStationSystem** (BSB47 password)
3. Start the chemstation software and on the splash screen read the revision number, should be B.05.05[8].
4. Quit the chemstation software.
5. Type winver in Start search box to get the version number of windows. You should get something like 1903 Build 18362.116
6. Open the **Configuration Editor** (Start>All Programs > UV Visible ChemStation > **Configuration Editor**)
7. Note the IP address of the instrument 192.168.254.11
8. If there are other things in the configuration that should not be there delete them. If the instrument is not there it needs to be added.
9. Exit the **Configuration Editor**
10. Make sure the Agilent 8453 is off.
11. In the Start search box type **cmd** and choose **command window**
12. Type **ipconfig** in command window and note the ethernet connections.
 - a. There should be two of them. One is the connection to the Agilent 8453 and the other is the connection to the internet.
 - b. Usually **Ethernet** is the connection to the Agilent 8453 (it should say disconnected). This is the internal ethernet adaptor of the computer.
 - c. Usually **Ethernet 2** is the connection to the internet and will have a number like 192.168.0.101 and a similar gateway. It is the USB to ethernet adaptor plugged into the computer. If it does not have an address you can unplug the USB to ethernet adaptor and replug it in. Then it should have an IP address
 - d. Turn on the Agilent 8453.
 - e. Type ipconfig in the command window and now there should be two network connections. The one for the Agilent 8453 should not get an IP address but remember which ethernet connection is the Agilent.
 - f. Close the window.
13. In **Start** search box type Control and choose **Control Panels**
14. Go to ControlPanels > Network > Network and Sharing.
15. Click on **Change Adaptor settings**

16. Right click on the **Ethernet** of the Agilent 8453
 - a. Goto TCP/IPv4 and click on **properties**
 - b. Now set the IP address to be one more than the Agilent 8453 IP address, e.g. 192.168.254.10
 - c. Set the mask to 254.254.254.0
 - d. Close the window.
17. Go to the Agilent 8453 user account and logon.
18. Start the spectrometer software and see if it connects to the Agilent 8453.