
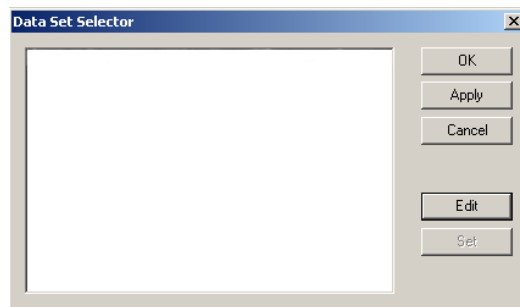



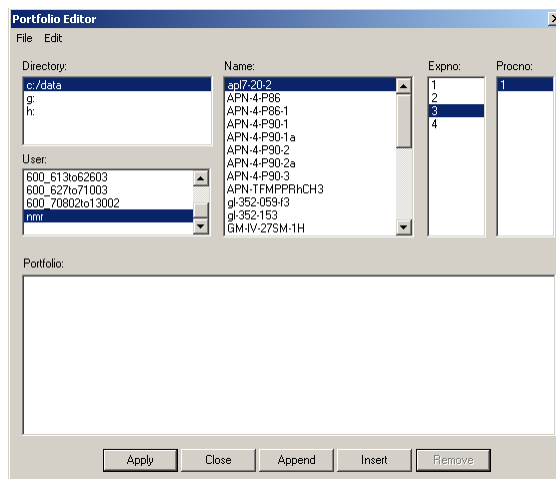
Plotting a 2D Heteronuclear Experiment


revised 11-24-08

1. Acquire a 1H and the 2D heteronuclear experiment as described elsewhere.
 - a. A 13C is optional, but may be plotted on the left axis if it is acquired.
2. To view the 2D spectrum type “xfb”.
3. Perform Baseline Correction
 - a. Type “abs1” to perform baseline correction on the horizontal dimension.
 - b. Type “abs2” to perform baseline correction on the vertical dimension.
4. Open up Xwin Plot by typing “xwinplot”.
5. Click File -> Open and pick your layout:
 - a. Use “2d_inv.xwp” if you have a HMQC, HSQC or HMBC.
 - b. Use “2d_psHSQC_jjd.xwp” if you have a phase-sensitive HSQC.
6. In XWIN-Plot click on 

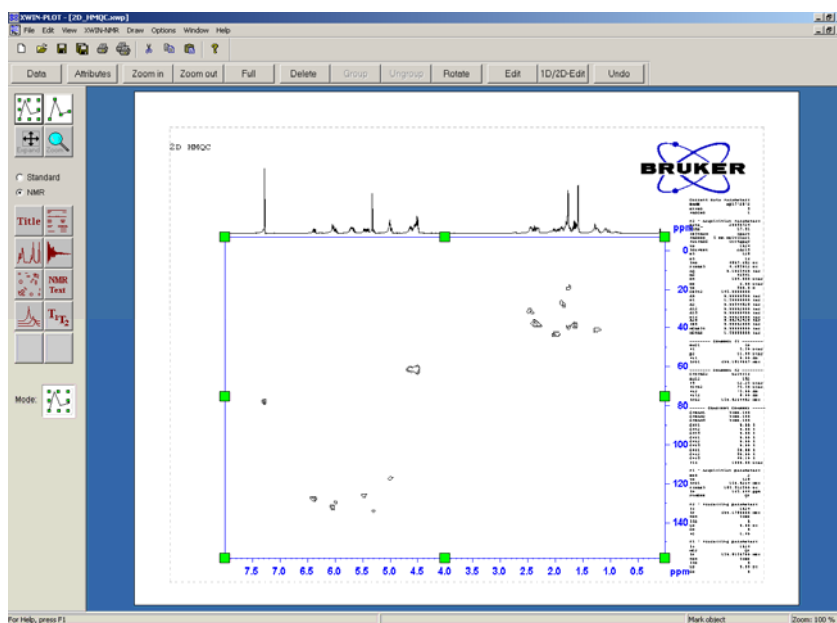


7. Click on 
8. Find the HMQC data set

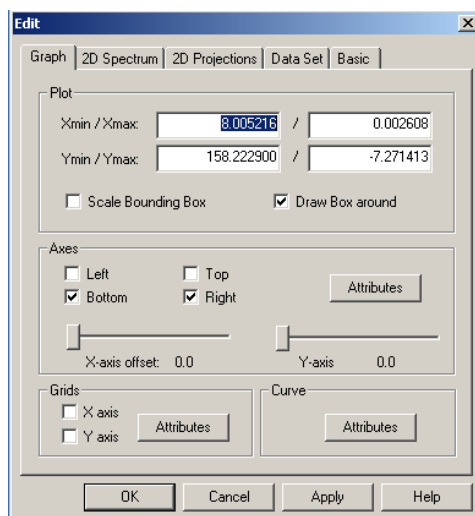


9. Click on 

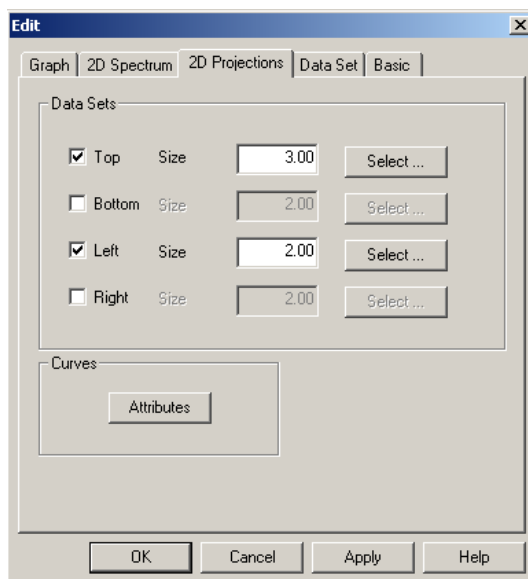
10. Find the 1D Proton spectrum and select by clicking on the experiment number once.
11. Click on
12. *Optional:* Click on the 13C spectrum by selecting and clicking on the experiment number for the 13C once.
13. Click on
14. Click on
15. Click on



16. Move the crosshair into the contour plot area.
17. Click the right mouse button and select “Edit...”



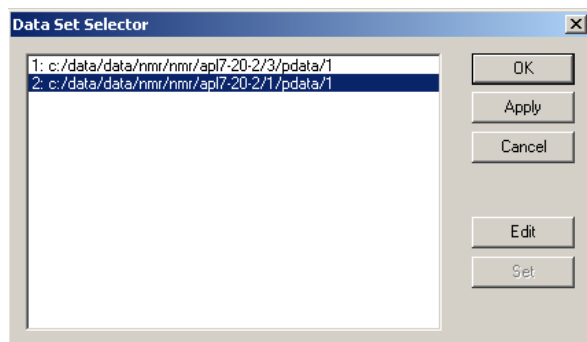
18. To change or add projections click on the 2D Projections tab.



19. Put a checkmark next to the axes you want to have projections on. Note: You will need to turn on the left projection and select the ^{13}C if you have one.

20. Click on 

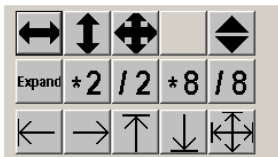
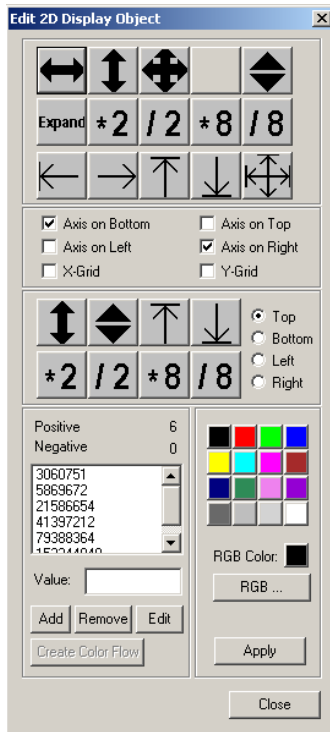
21. Select the 1D data set that should be projected on that axis.



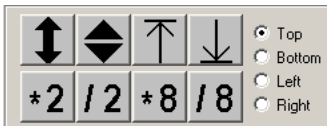
22. Click 

23. Move the crosshair into the contour plot area.

24. Click the right mouse button and select "1D/2D-Edit..."

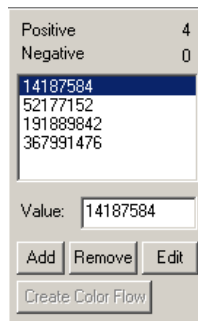


25. Use the buttons on the top half to adjust the contour levels.



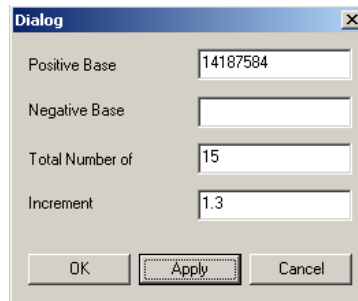
26. Use the buttons in the middle to adjust the projection scaling.

27. To make the contours darker, click on the top number (bottom half of 1D/2D Edit screen)



28. Copy this value using <ctrl> - C.

29. Click on the small edit button.





30. Paste this value under Positive Base using <ctrl> - V.


- a. If you have a phase-sensitive HSQC, also paste this value under Negative Base, and make it negative.

31. In the box next to Total Number of enter “15”.

32. In the box next to Increment enter 1.5.

33. Click on 

34. Click on 

35. Click on  in the 1D/2D Edit menu.

36. Click on “File”. Select “Print” by clicking on it.