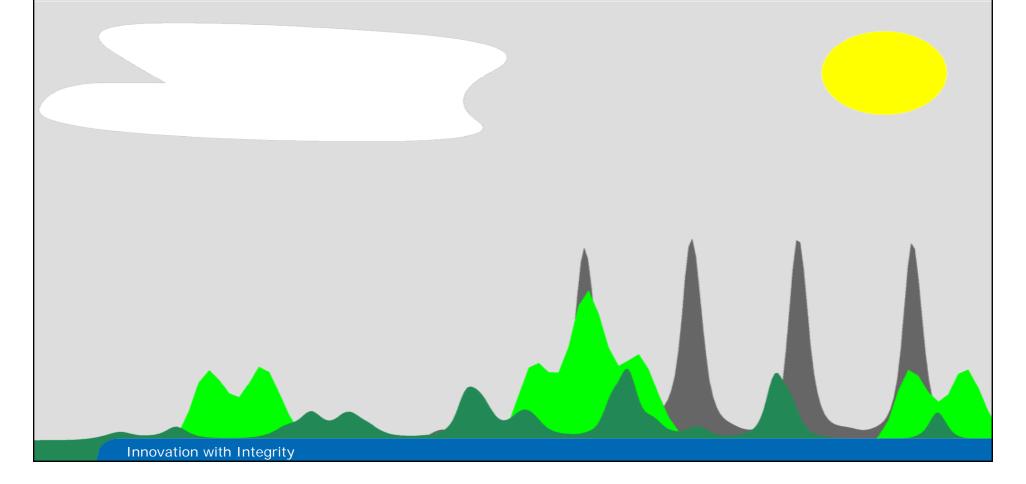
Topspin plot editor

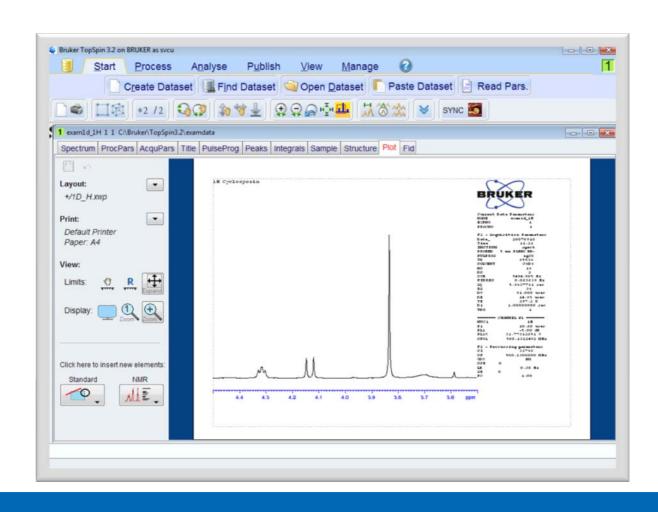


Clemens Anklin Bruker BioSpin Corp Avance-I course Billerica MA, June 10. – 13. 2013

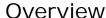


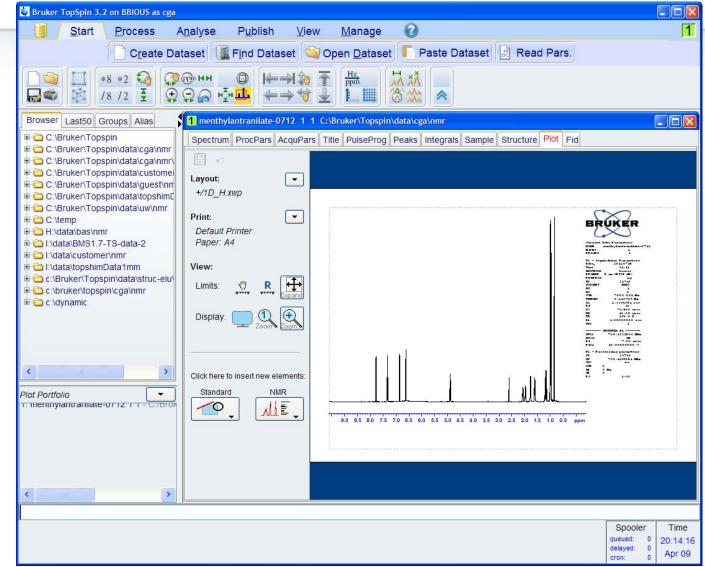
Plotting and creating output with Topspin 3.2



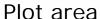


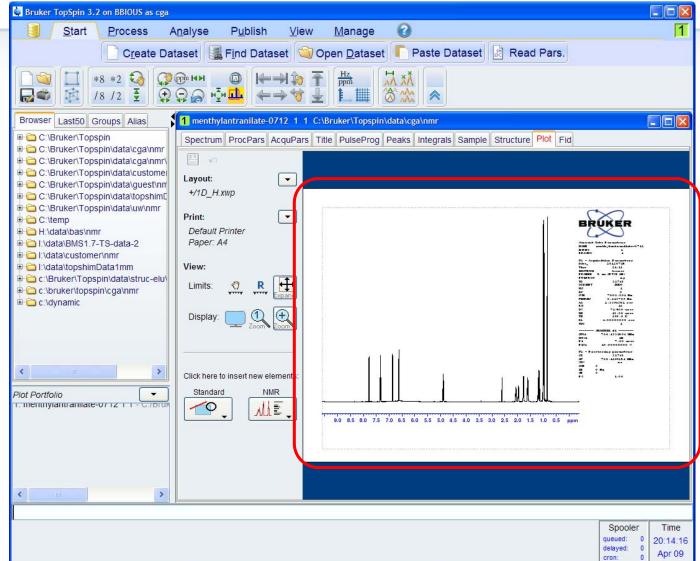












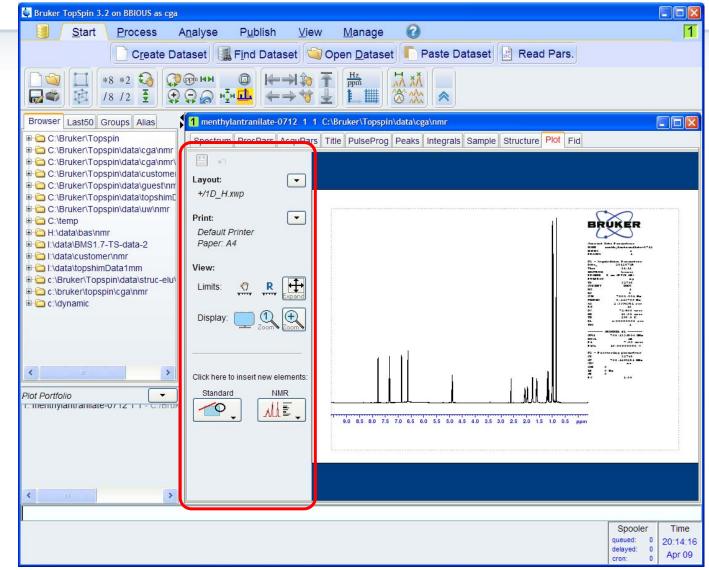


Plot functions

Layouts

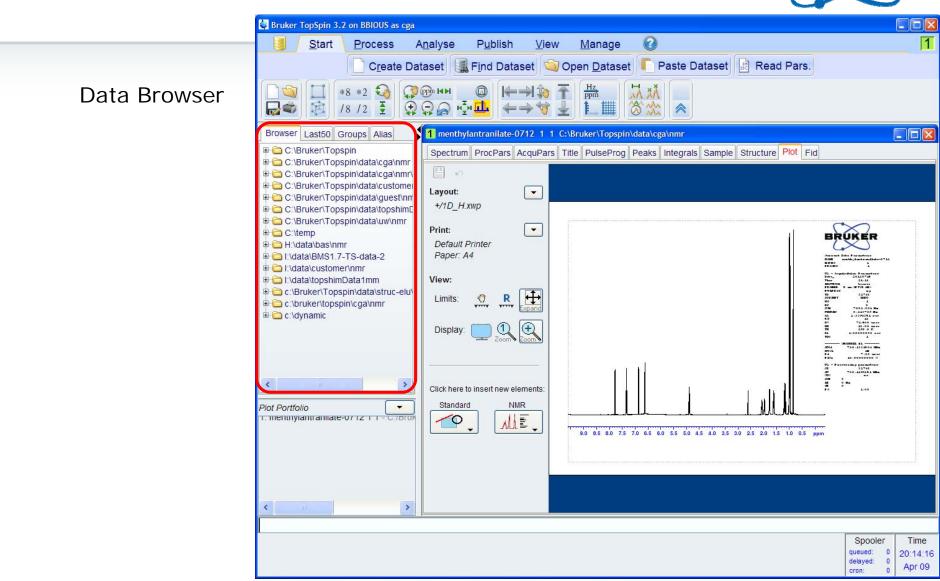
Printers

View

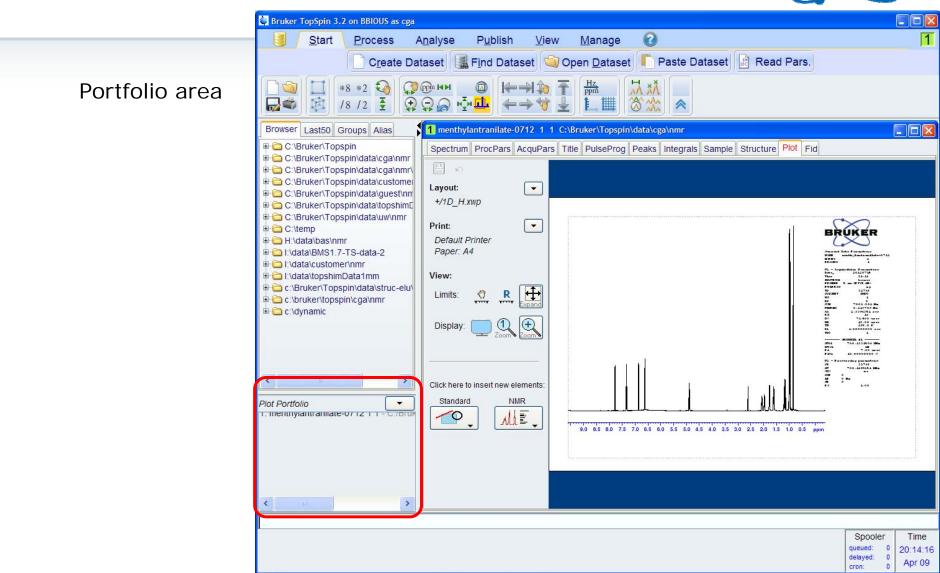


The new user interface









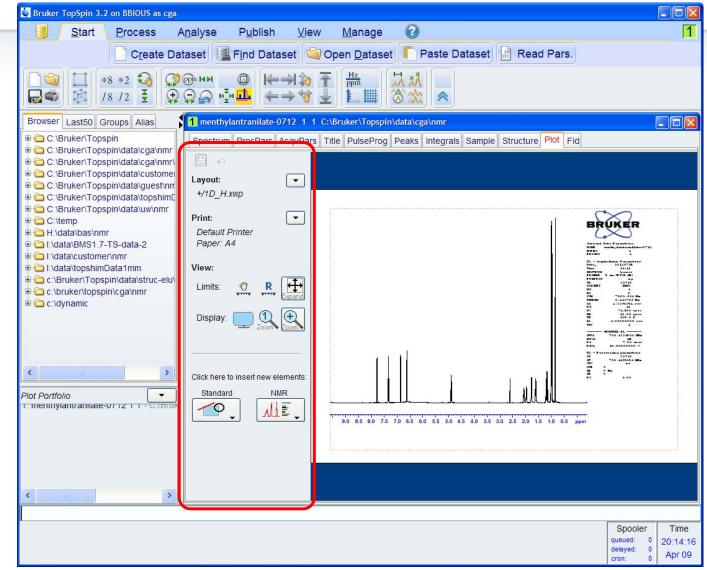


Plot functions

Layouts

Printers

View



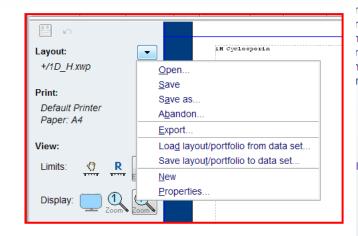


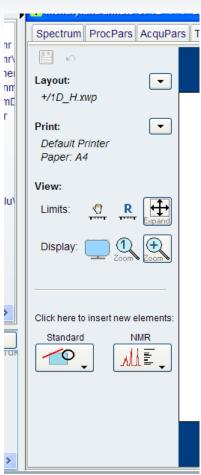
Plot functions

Layouts

Printers

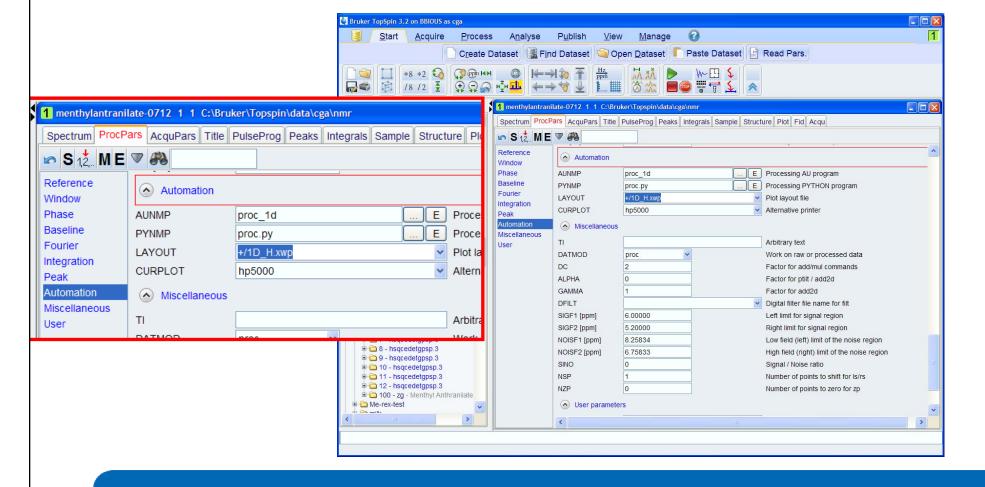
View







The layout is by default imported from the data set.



What is a layout



The layout contains information about locations, size properties of objects on your plot

It does NOT contain data.

It also contains information on what to do when data is loaded into the layout = automation actions or reset actions.

When a layout is applied to a dataset all of the above is applied and a view or printout is generated.

More later

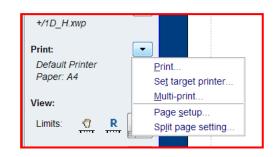


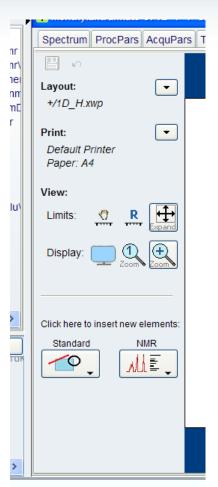
Plot functions

Layouts

Printers

View





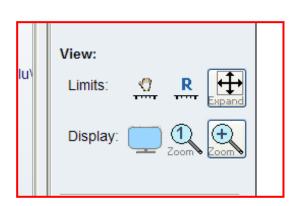


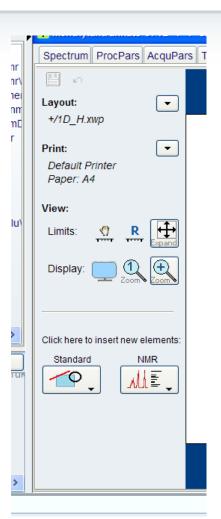
Plot functions

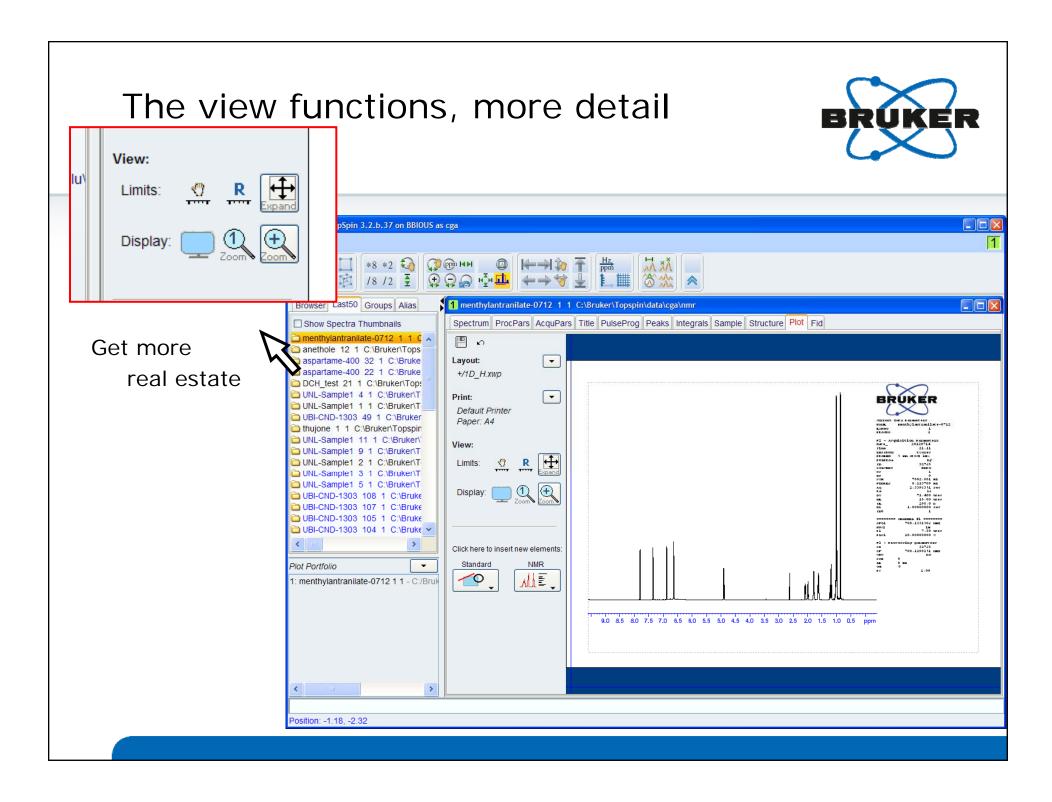
Layouts

Printers

View





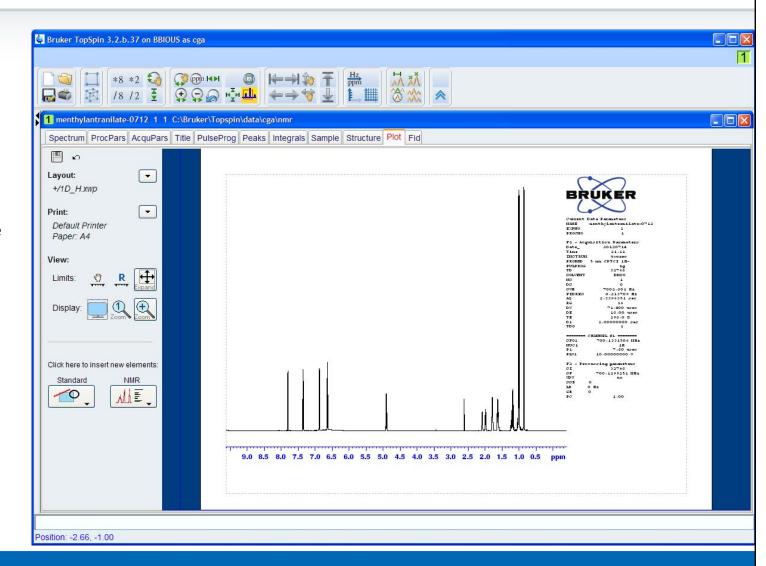


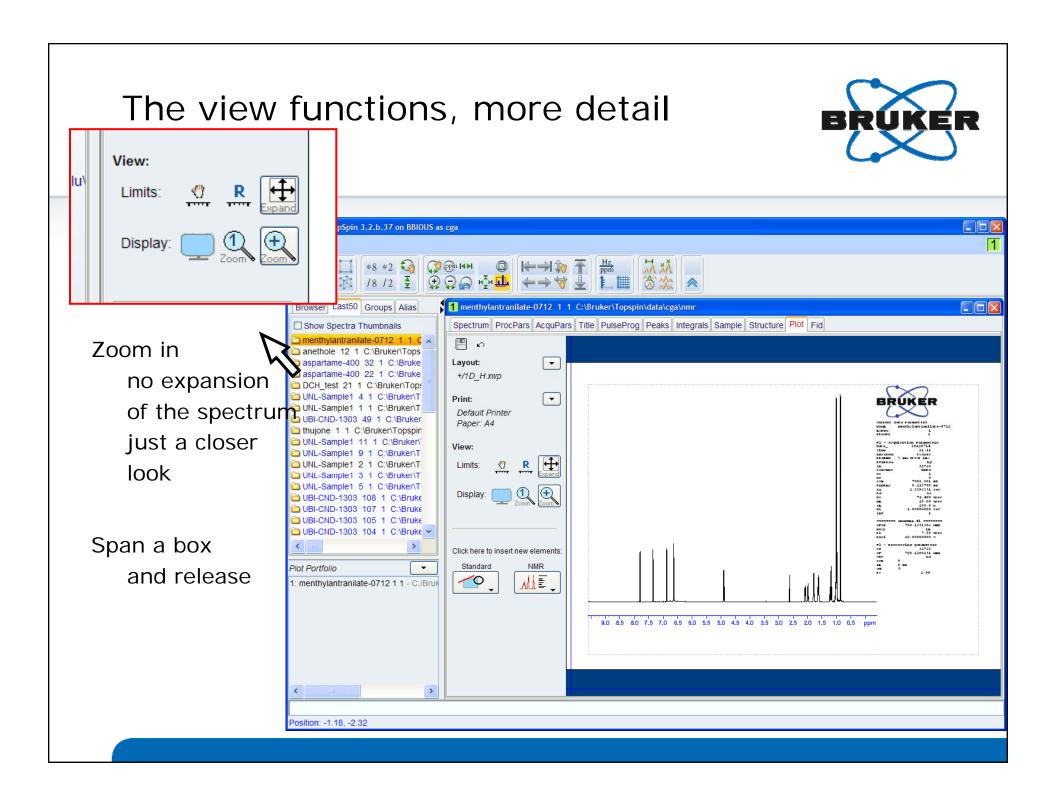
The view functions, more detail



Get more
real estate
or optimize the
window for
plotting

Ctrl d to get back

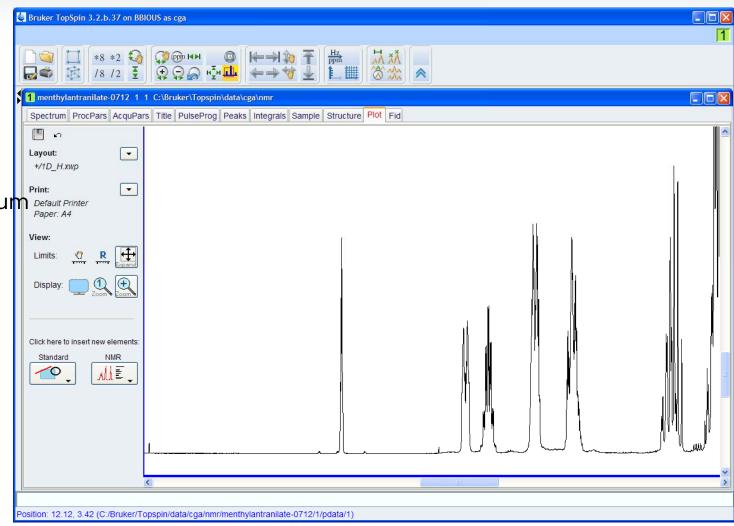


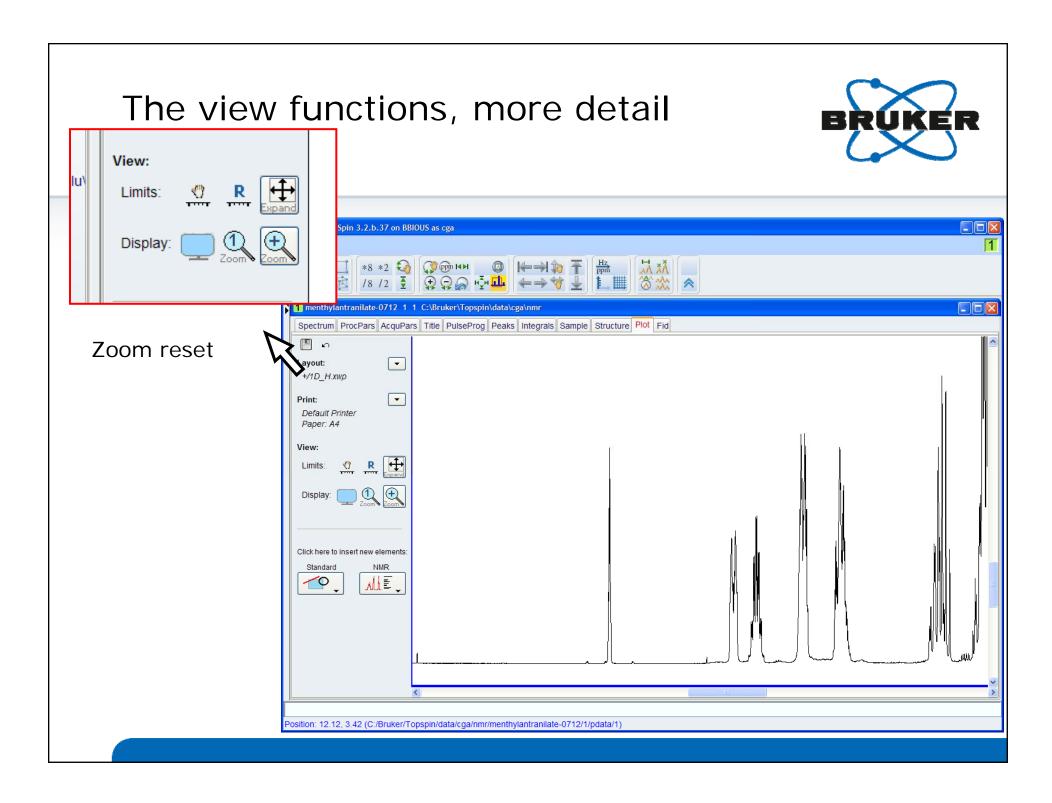


The view functions, more detail



Span a box and release

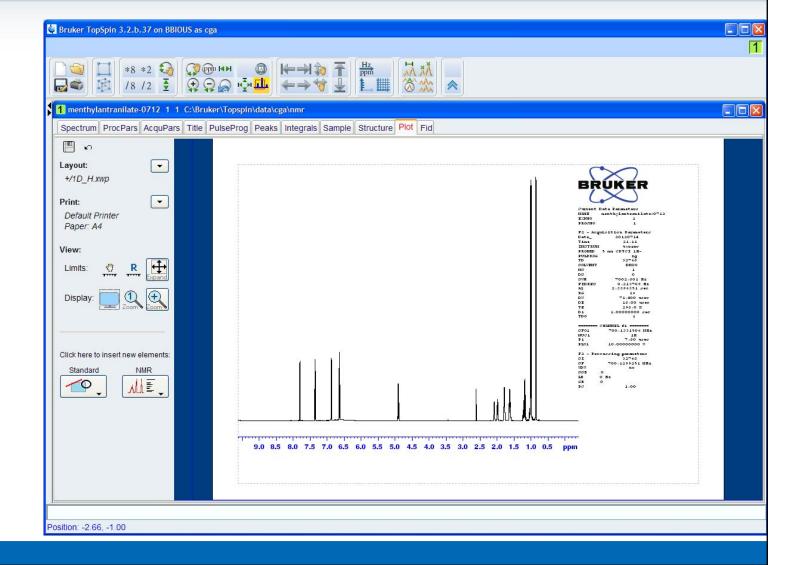


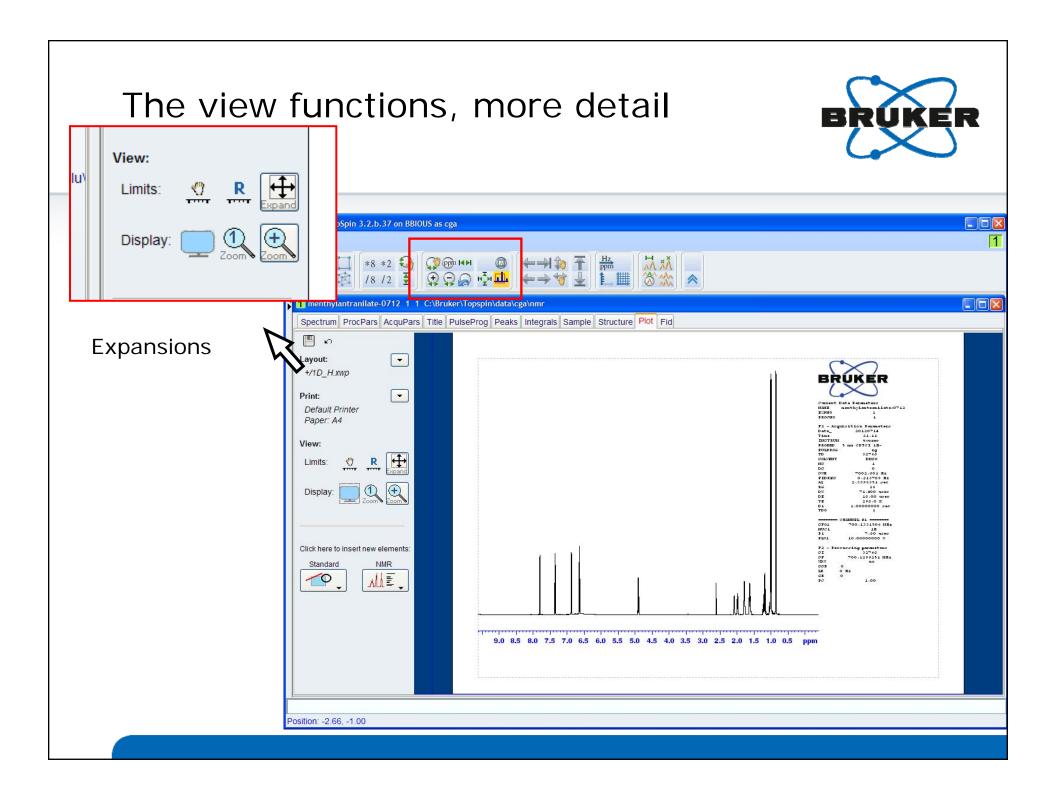


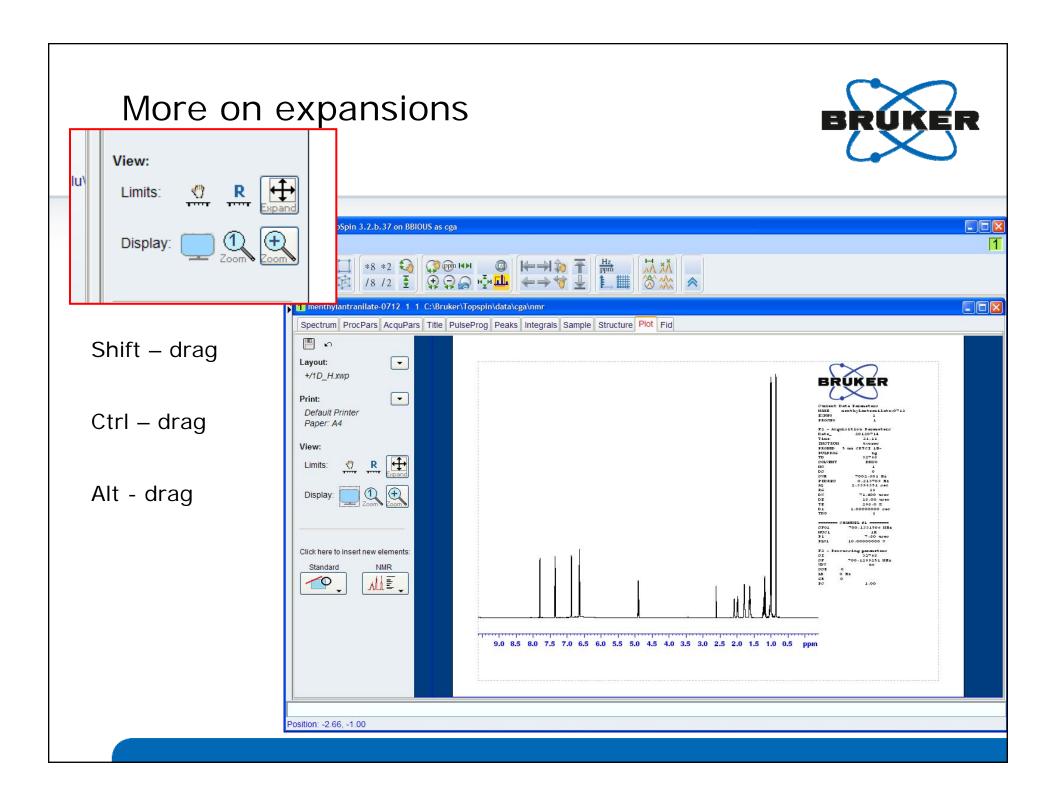
The view functions, more detail



Zoom reset

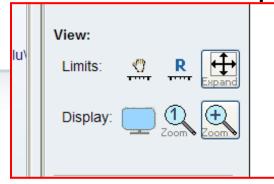






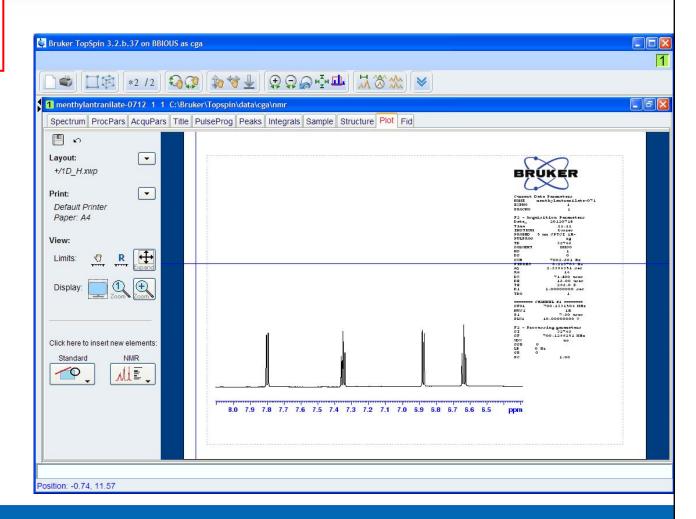
More on expansions





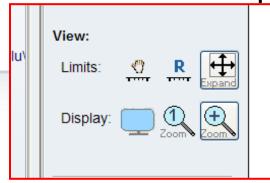
Shift – drag

Horizontal expansion only



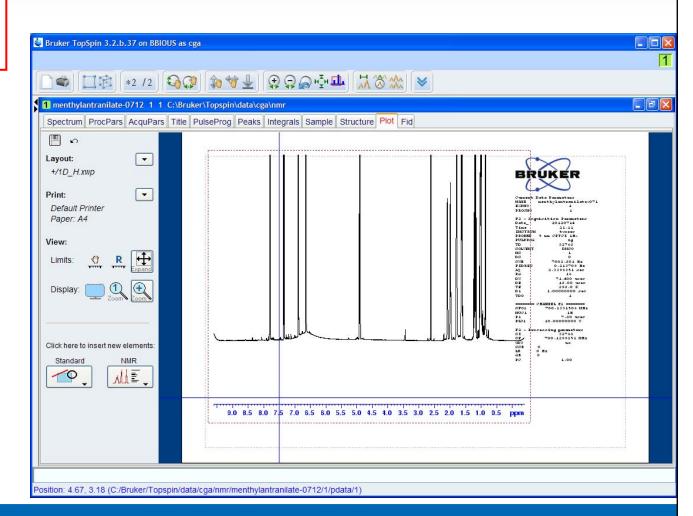
More on expansions





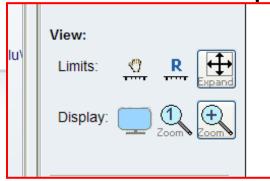
Ctrl – drag

Vertical expansion only



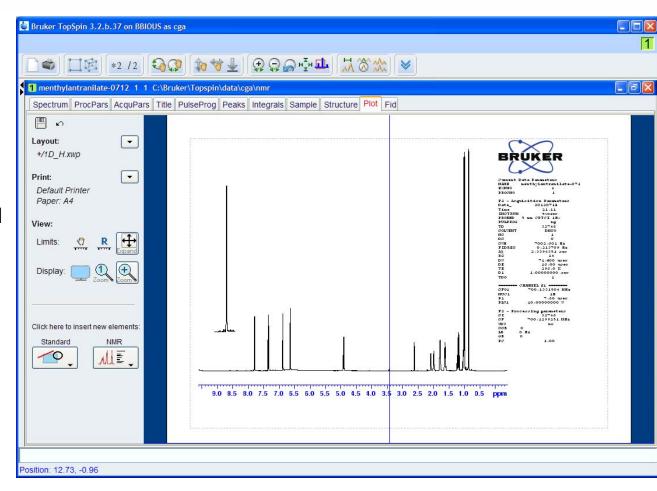
More on expansions





Alt – drag

Creates new object
with same horizontal
scale and vert
expansion



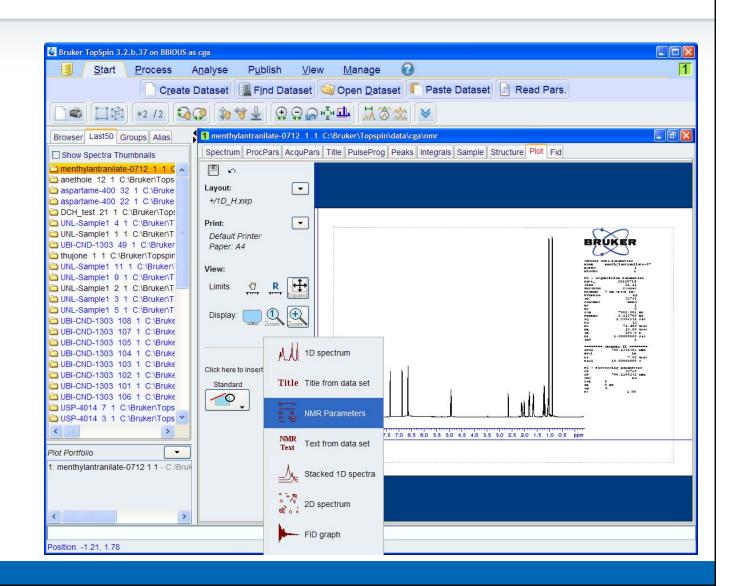


Plot functions

Layouts

Printers

View



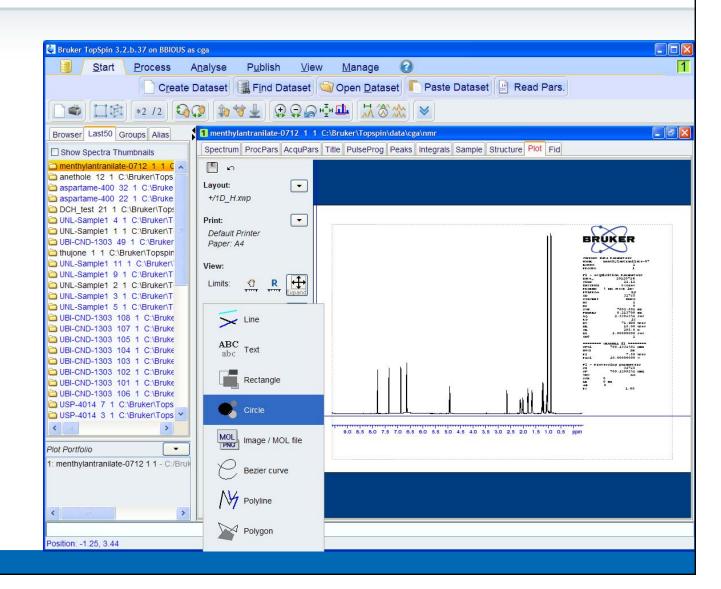


Plot functions

Layouts

Printers

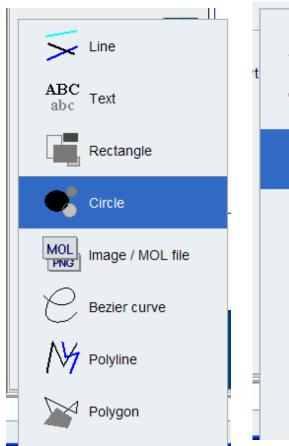
View

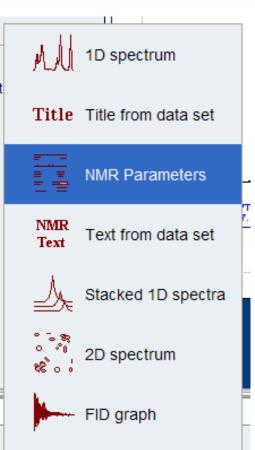




Objects

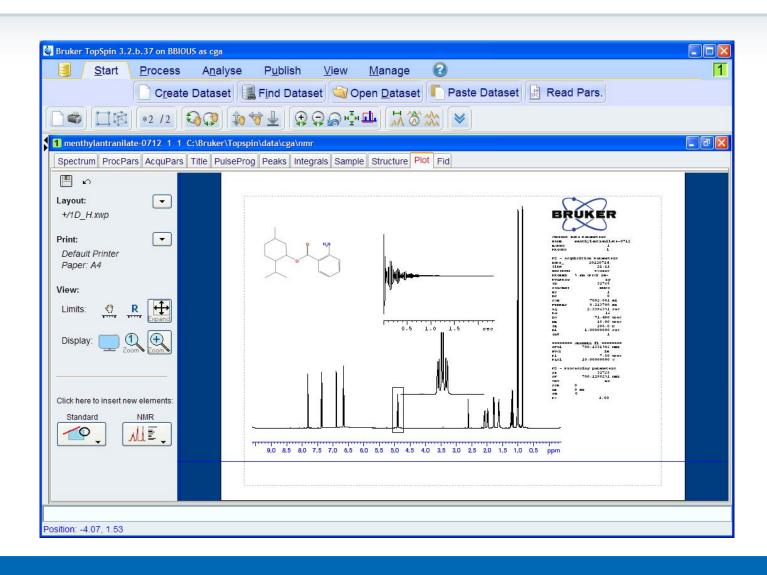
Add more objects





Applying all the tools so far



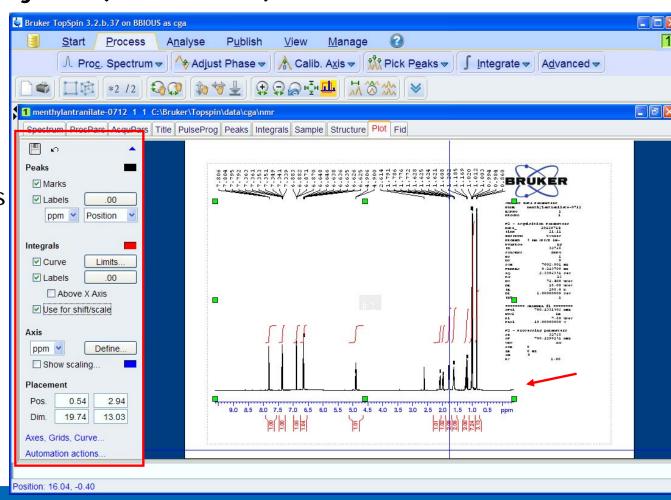




- How to change the properties of individual objects
 - Changing colors
 - Fonts
 - Line style and thickness
 - And more



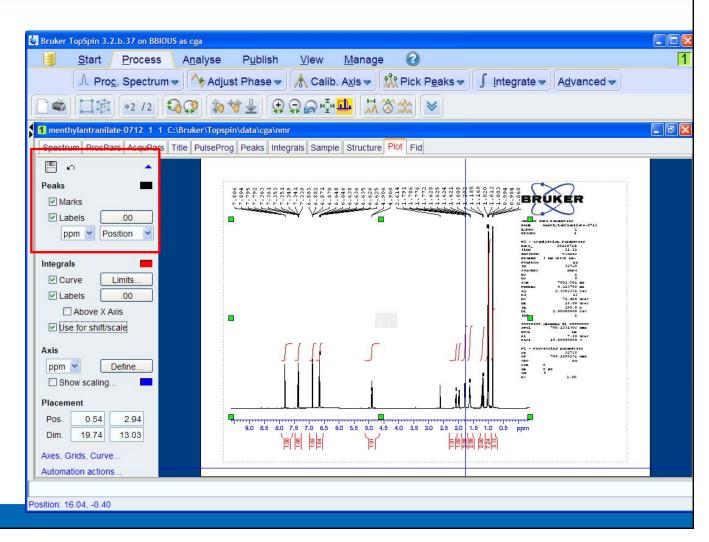
- Select the object (click on it)
- Green corners appear
- The menu on the left changes
- More options under links bottom





Peaks

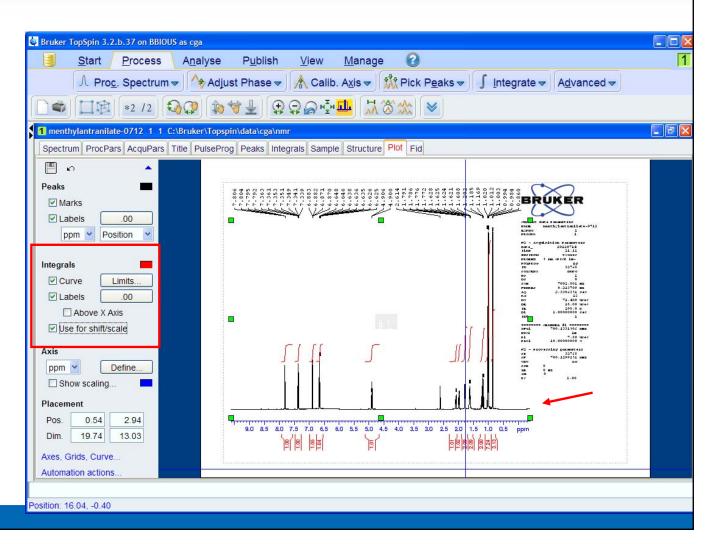
- Set the color of the marks and labels
- Choose marks on top of peaks
- Choose labels
- Set the number of decimal places



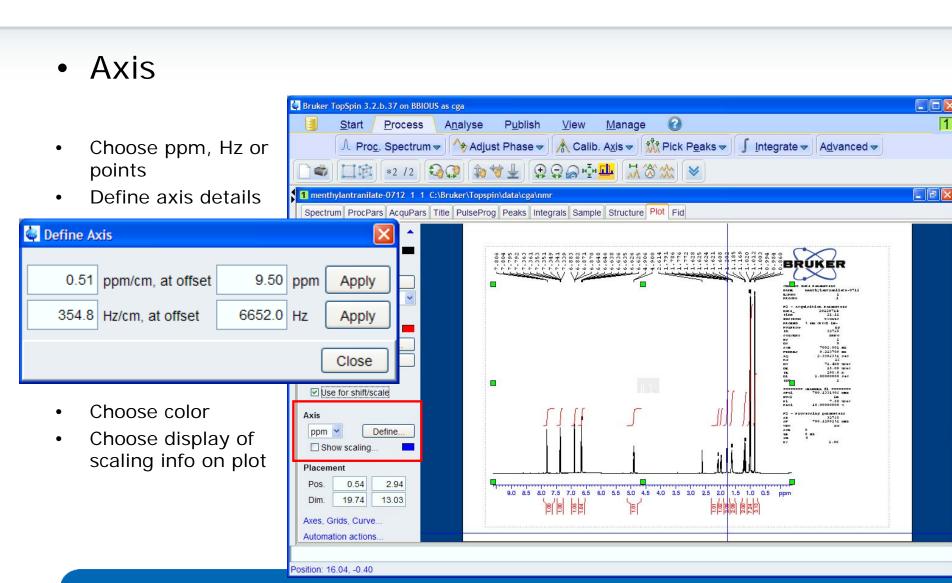


Integrals

- Set the color of the integral trails and labels
- Set the number of decimal places
- Choose the position of the labels. Below the aixs or between axis and spectrum
- Check box to select interactive scaling functions





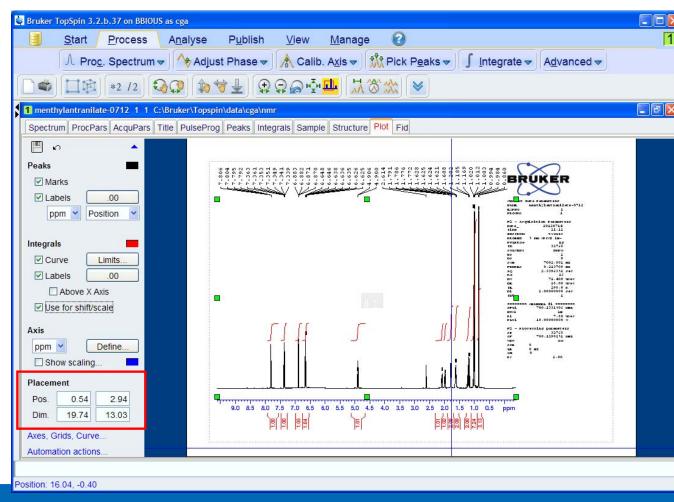




Placement

- Pos: defines the lower left hand corner of the plot (the green corner)
 - See next page of options
- Dim: defines the size of the plot as shown by the green corners

Attention Spectrum scales vertically with the dimension

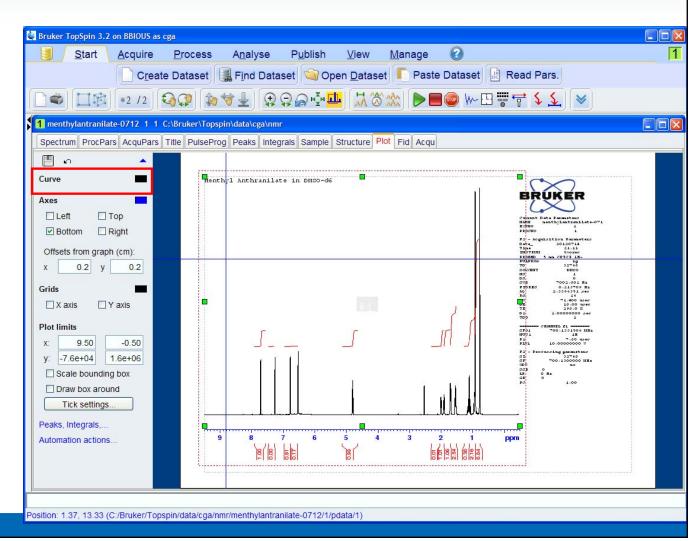




Curve

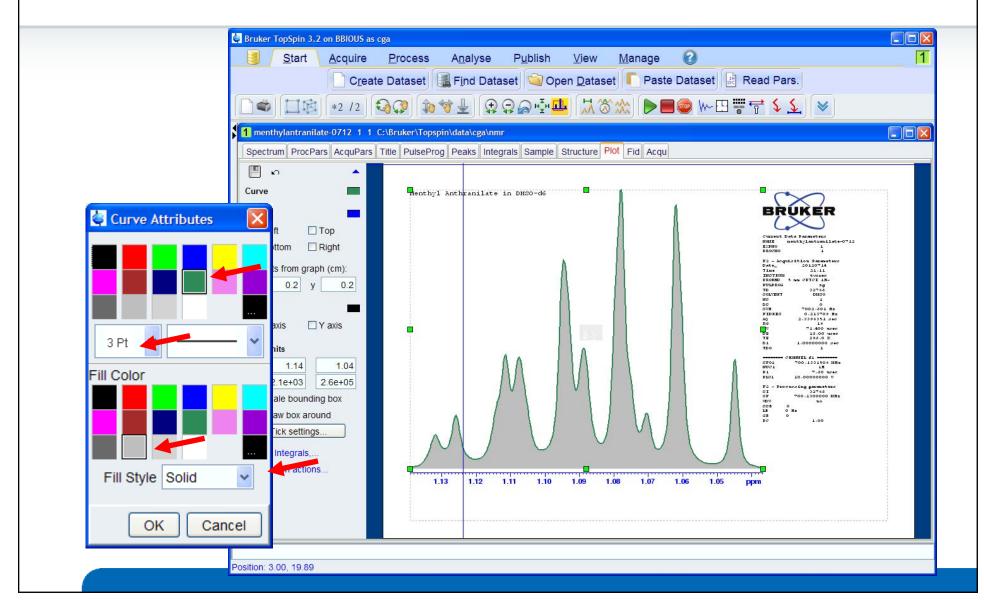
 Defines the color and line thickness of the spectrum





That is how you do it.



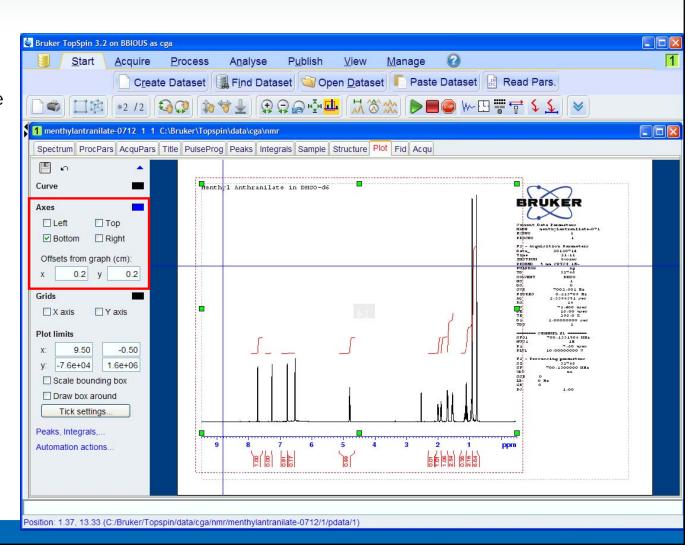


Manipulating individual objects



Axes

 Choice of color, line style, font size and font for axis

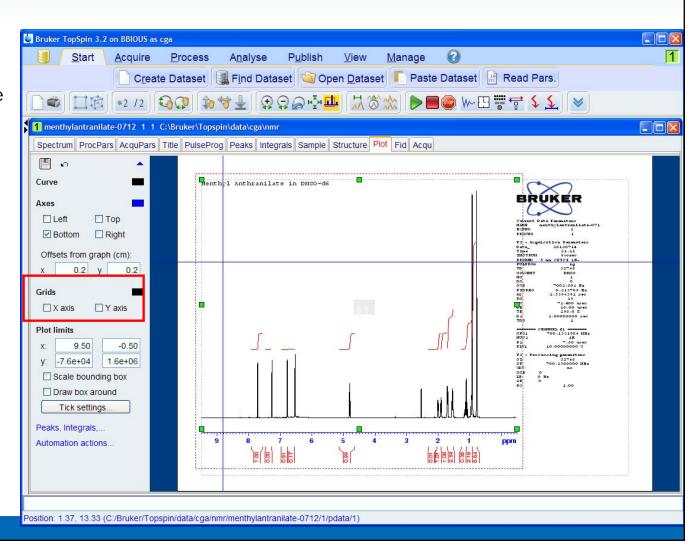


Manipulating individual objects



Grid

 Choice of color, line style, for X and Y grid lines

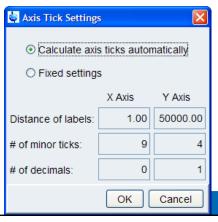


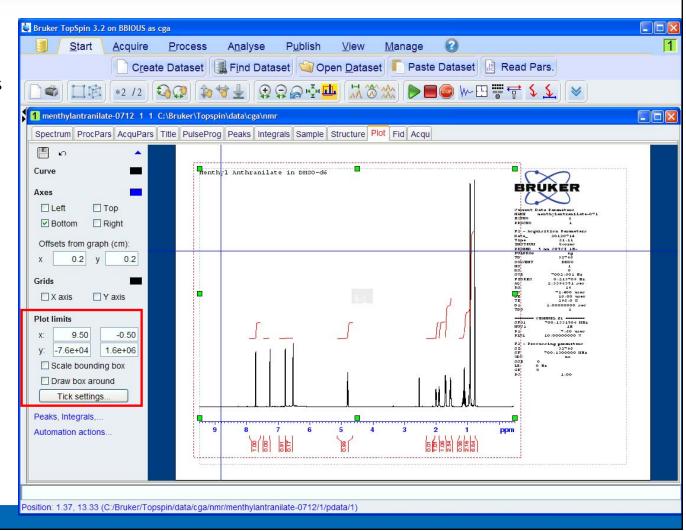
Manipulating individual objects



Plot limits

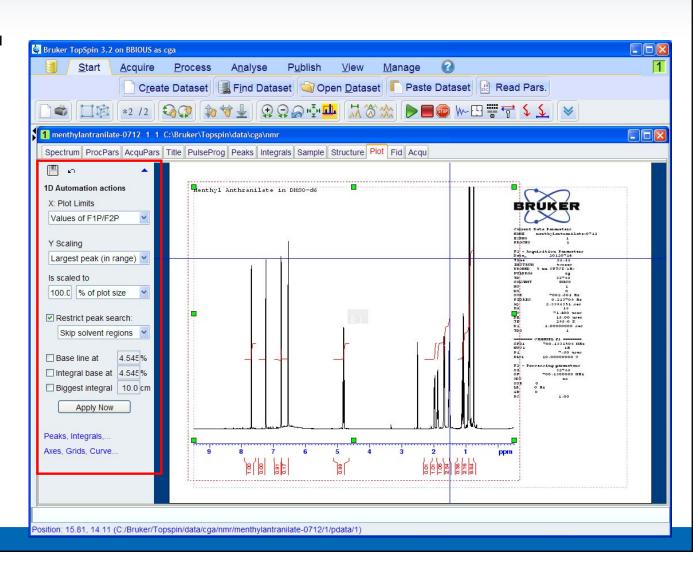
- Choice of plot limits in the units define on the first page of options
- Scale bounding box
 - Include everything
 - Include spectrum only
- Tick mark settings







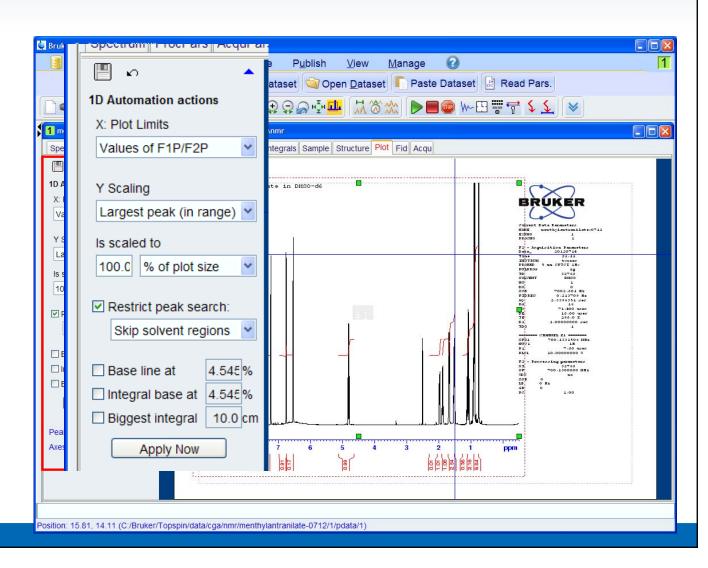
- Define what happens when you reset a spectrum, when you plot in automation or use autoplot
- Vertical and horizontal scaling
- Exclusions such as solvent or other peaks.
- Vertical arrangement of spectrum and integral





X plot Limits

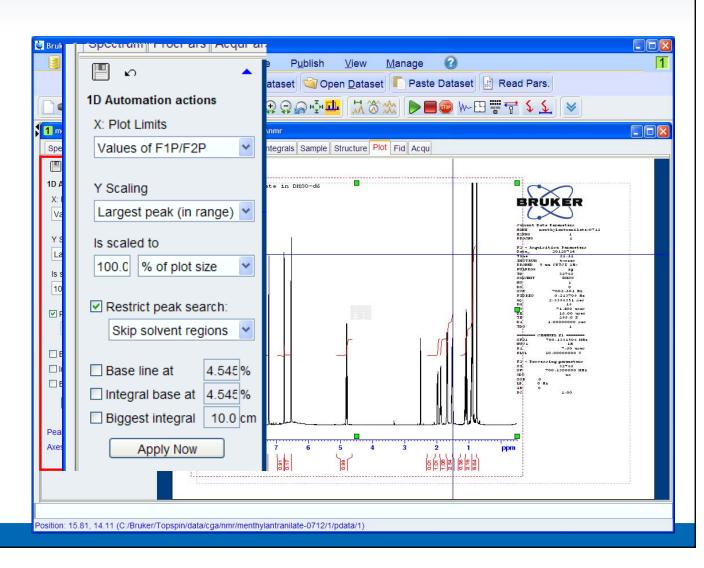
- Don't change
 - As is in spectrum tab
- Full Range
 - The whole spectrum
- Values of F1P/F2P





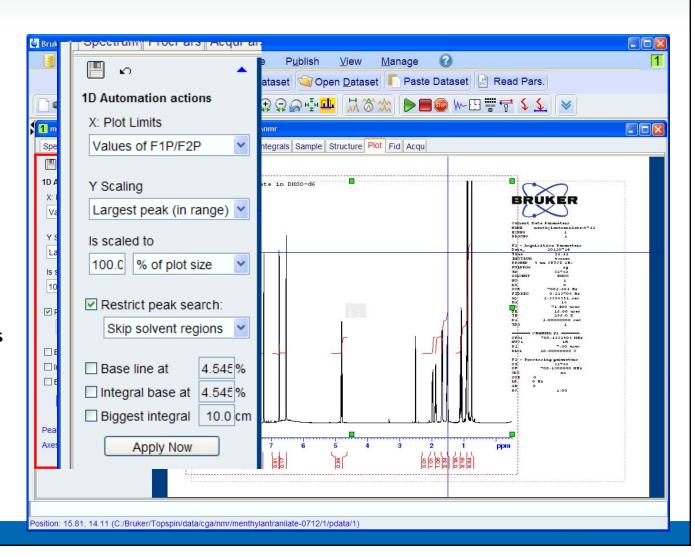
Y Scaling

- Don't change
 - As is in spectrum tab
- Largest peak (all)
- Largest peak (in range)
- Is scaled to
- Percentage of Plot size
- Specific height in cm
- Value of CY





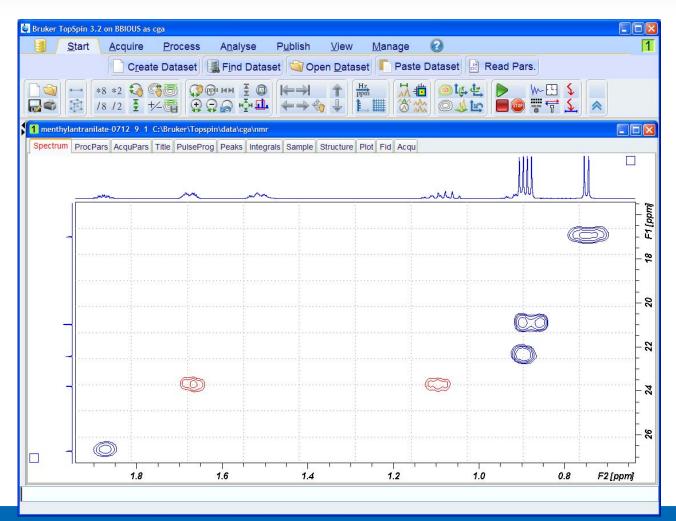
- Restrict peak search
- Use REG file
- Only integral regions
- Skip Solvent regions
- Baseline settings



Now some 2D



- Preparation
- Set projections1d spectra
- Set levels

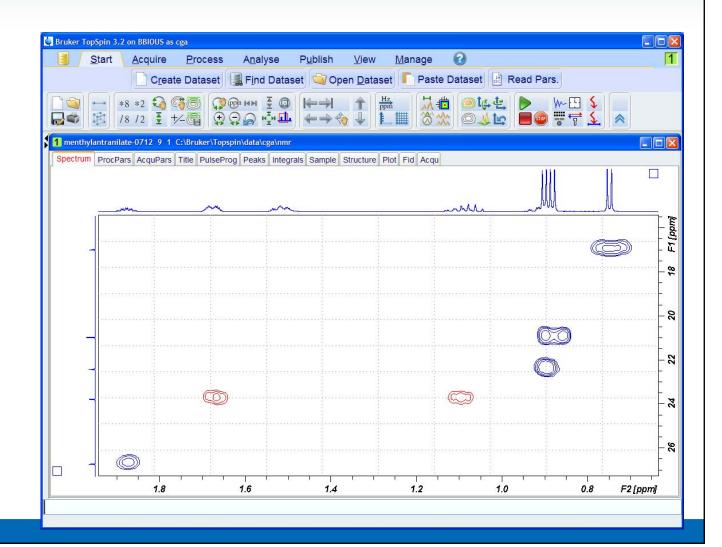


Now some 2D



Set levels

Default
8 levels
factor 1.8
between
levels



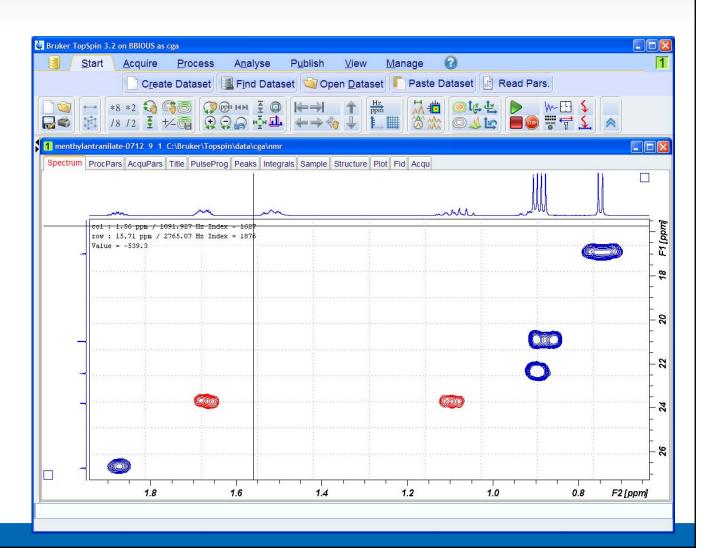
Now some 2D



Set levels

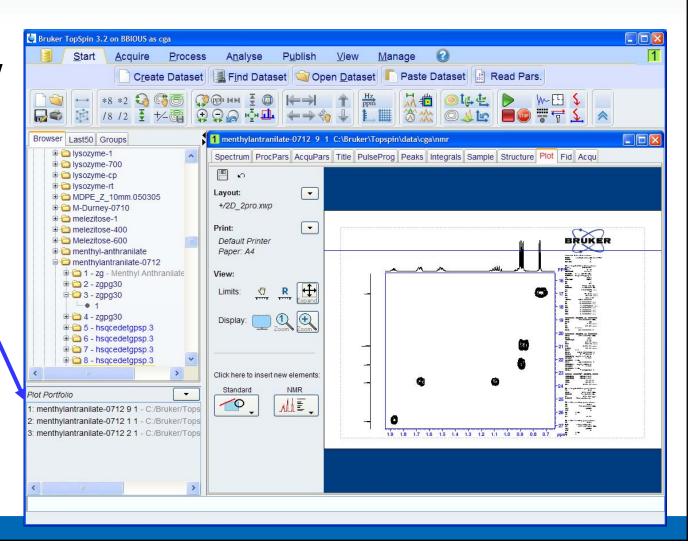
Better
32 levels
factor 1.2
between
levels

Now into the plot editor



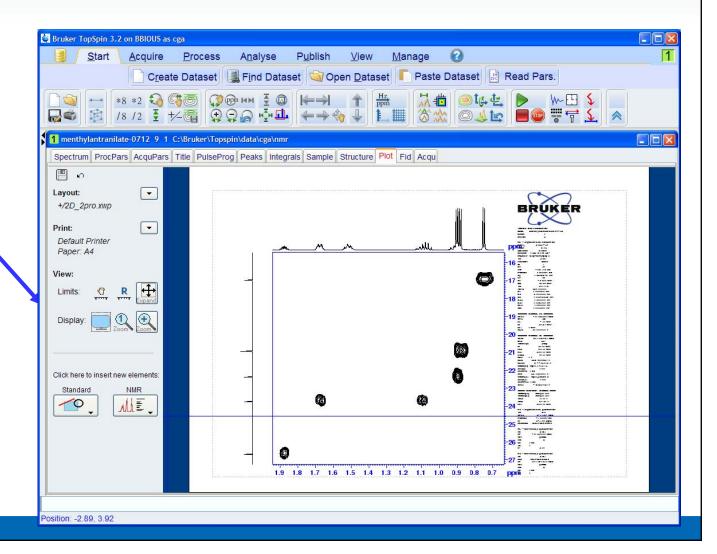


Portfolio window shows path of projections





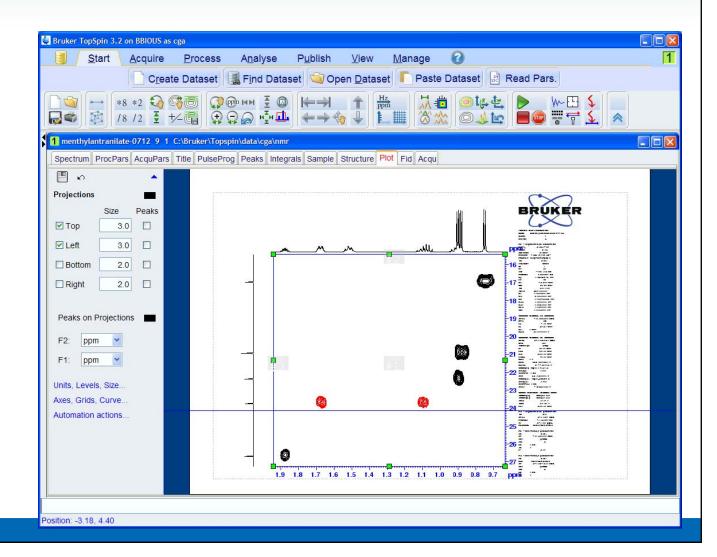
Basic options same as 1D





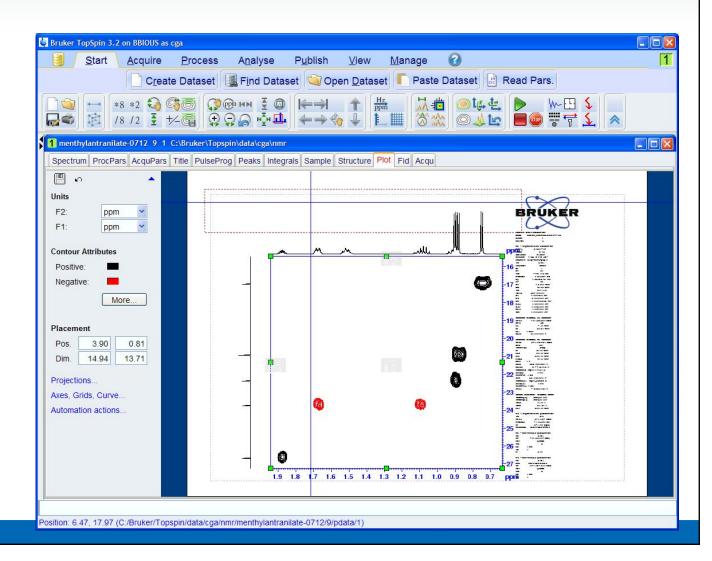
Projections

- Top, bottom, left and right
- Size of projections
- Peak display



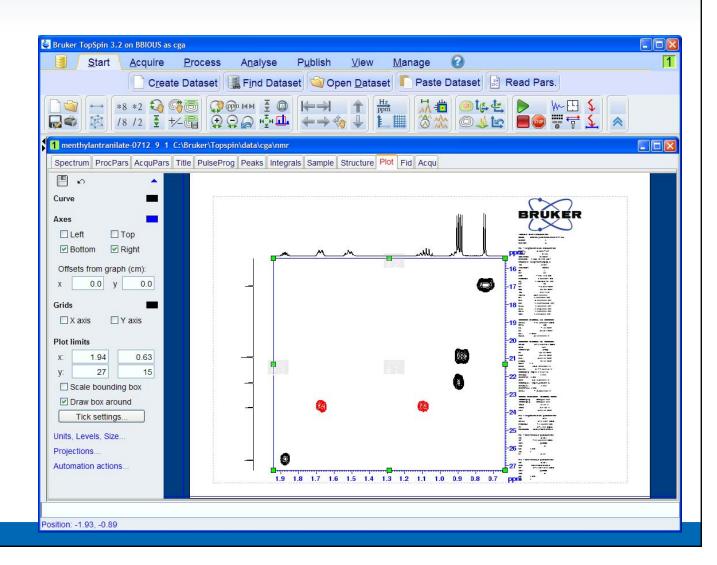


- Units, Contours and placement
- Contours
 - Choice of colors
- Placement
 - Location of spectrum



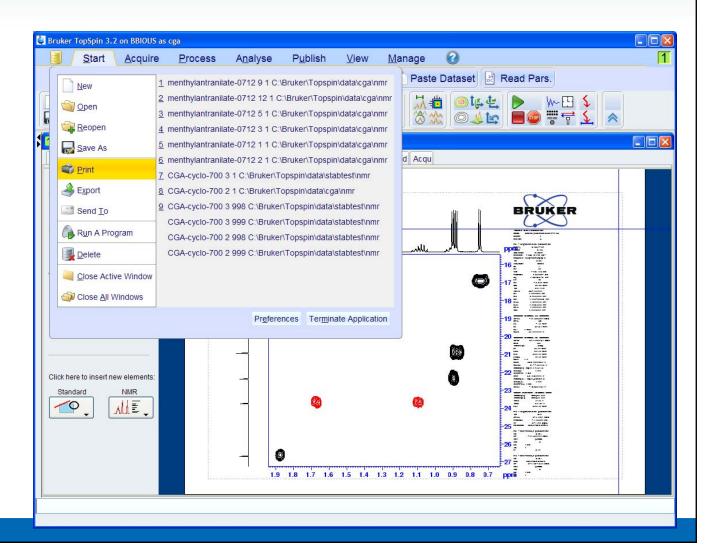


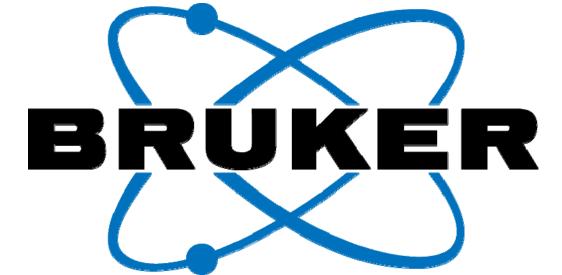
 Curve, Axes, Grids and Plot limits





- Finishing up
- Print for hardcopies
- Export for digital copiesas PDF, PNG, PS, TIF, JPG and BMP





Innovation with Integrity