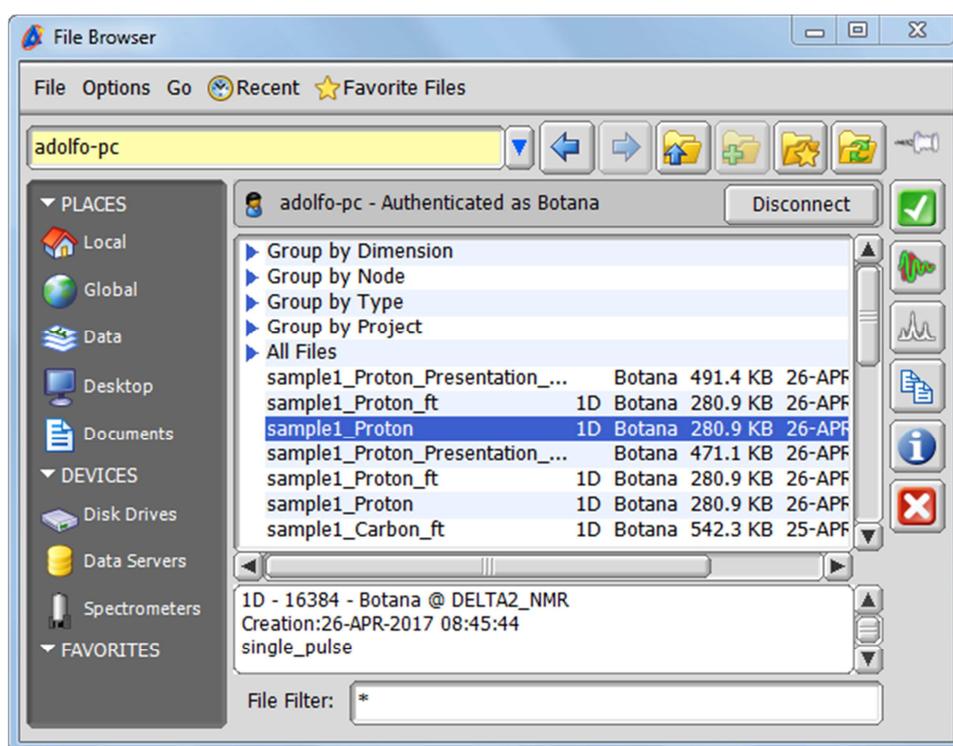


EXPORTING DOSY DATA FROM DELTA

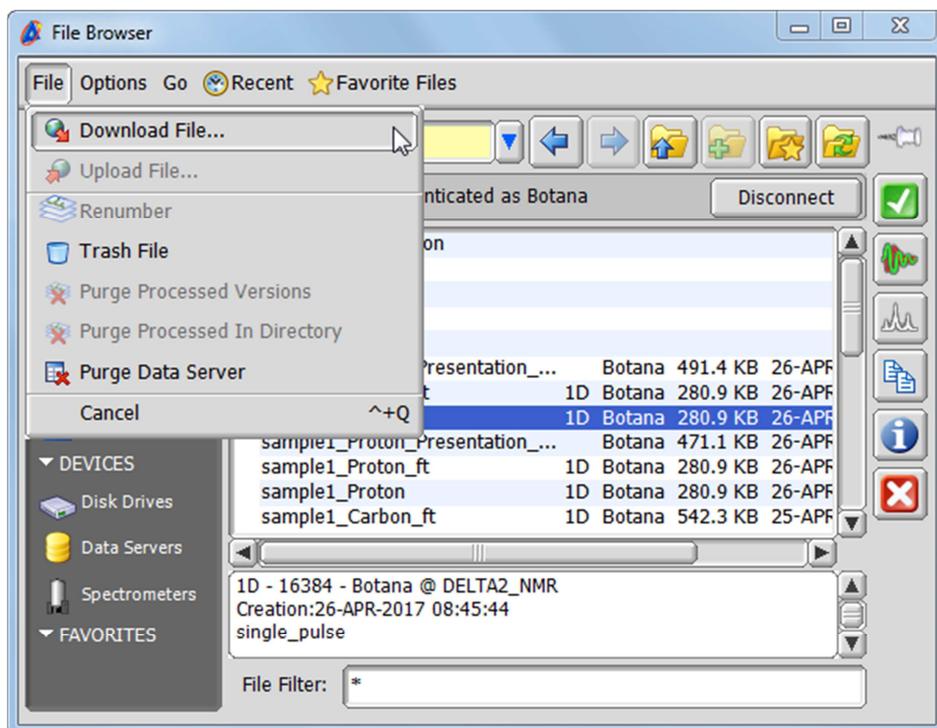
In order to export DOSY data from Delta 5.x to third party software such as DOSYToolbox it is necessary to export it in JEOL generic format (as of November 2017). This document provides an explanation on how we can export raw data in generic format once it has been acquired. It is possible to export all data from a certain type of experiments automatically in generic format, but that is beyond the scope of this document. Contact JEOL for further information.

UNDERSTANDING DELTA DATA

JEOL spectrometers from the latest generations store all raw data in the console. This can be accessed through the Delta File Browser under Data Servers from a Delta workstation connected to the console.

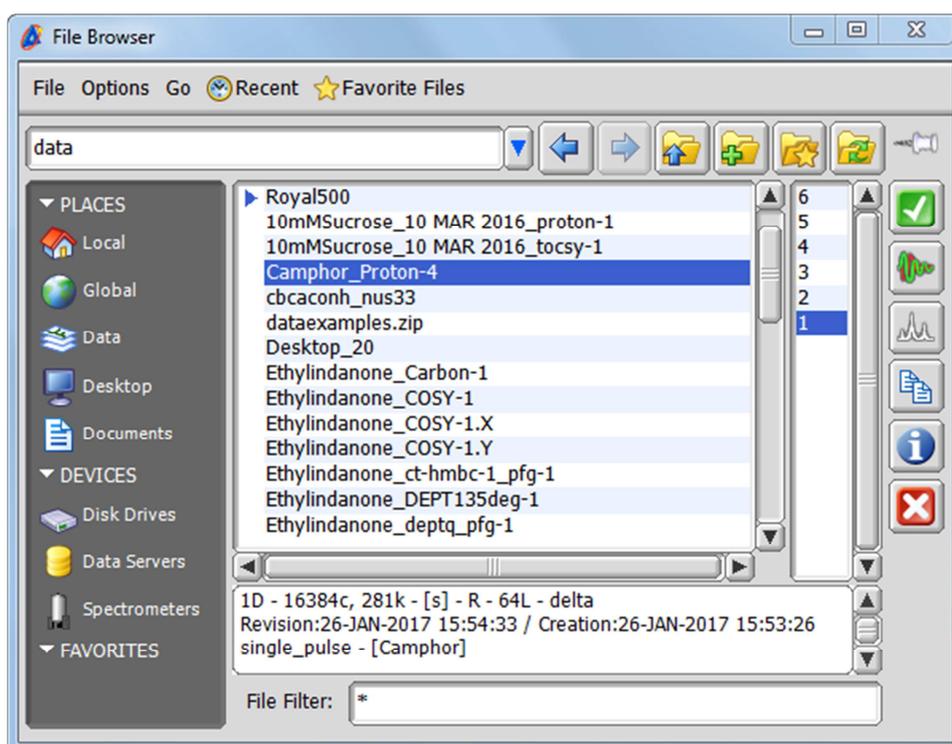


From this window, the data can be opened using the  button and its parameters can be read using the  button. It can be downloaded to another location through the menu File> Download File...



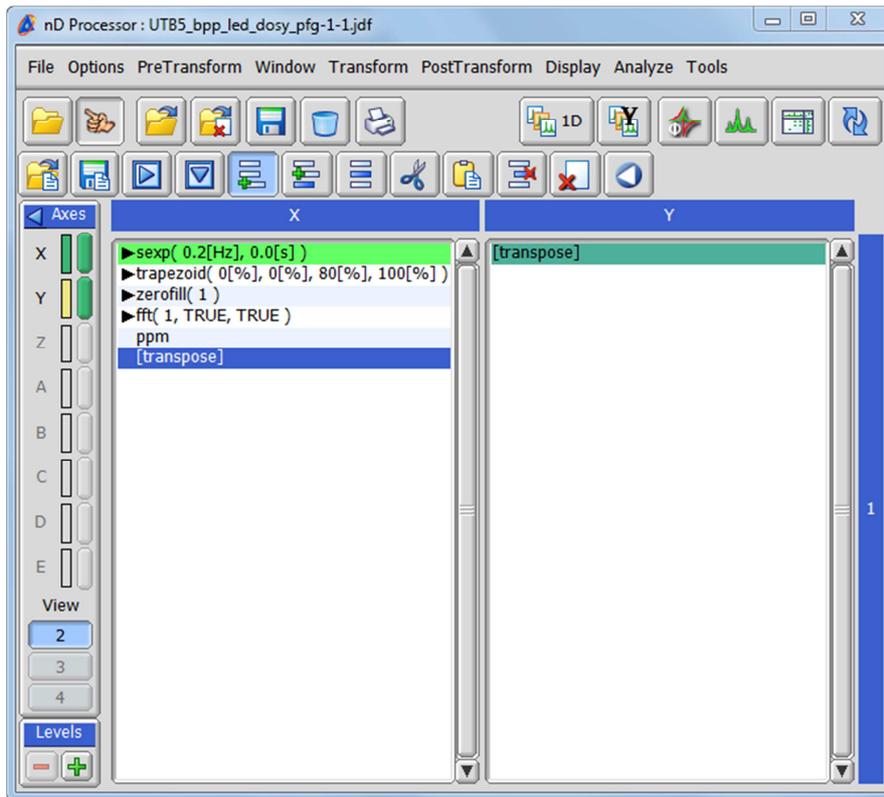
Whenever a file is downloaded via this method, automated backup or “deliver data” option, its filename incorporates numbers at the end of the filename to indicate the data and processing version. For example, the 2 in ethylindanone_proton-2-1.jdf indicates that this is the second ethylindanone_proton dataset saved and the 1 indicated that this is the raw data (processing version 1). If the data were ethylindanone_proton-1-4.jdf we would be dealing with the first ethylindanone_proton dataset and with the 3rd processing version (processing version 4). Note that Delta uses these numbers when reading data, so if the filename is modified by removing these numbers, Delta may not be able to read it anymore.

In Delta File browser we can choose between the different processing versions of a dataset using a second column that appears in the browser.



ND PROCESSOR

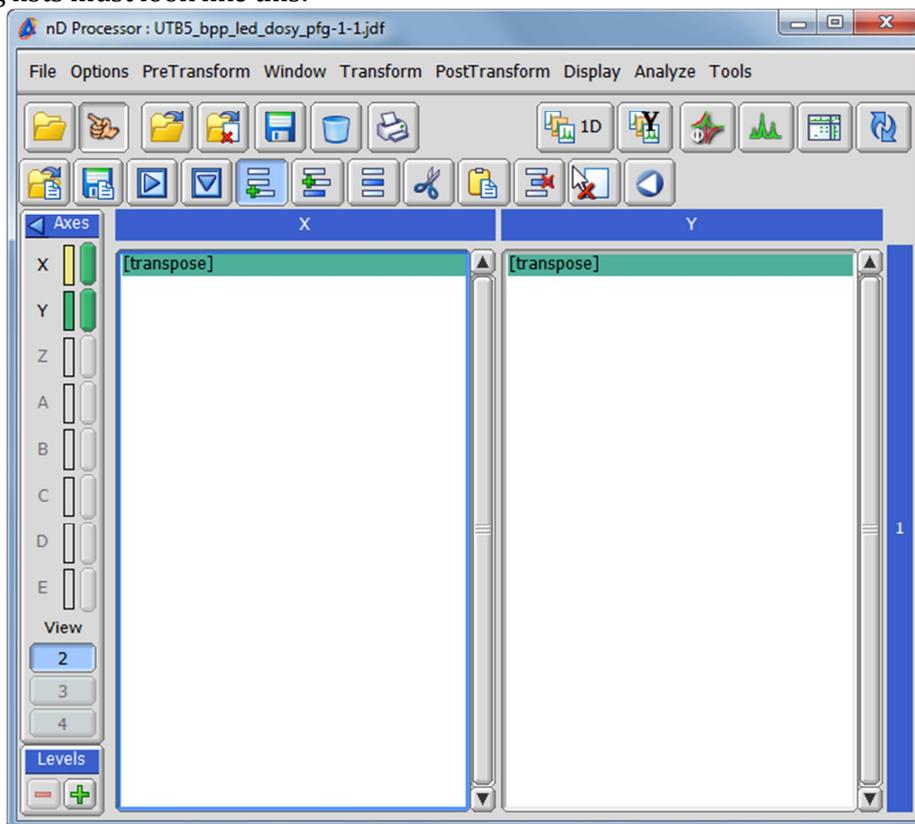
When we open DOSY raw data, we should encounter a window like the following one, where we can see a processing list for each of the two axes.



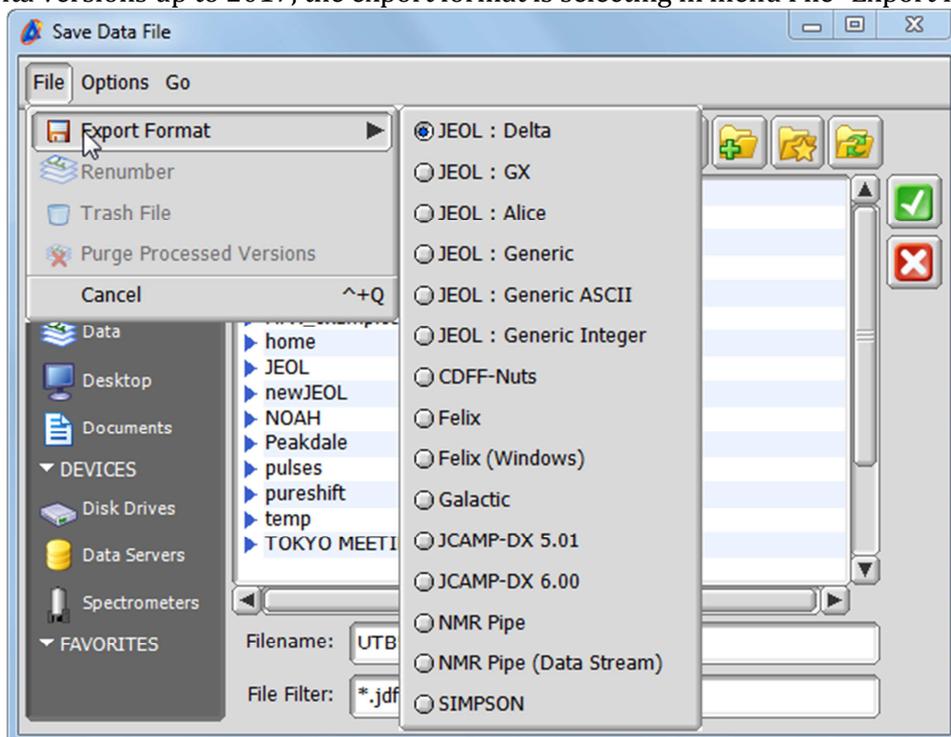
If we now save the data via menu File> Save as, what we are saving is the data obtained after the current processing, i.e. in this case we would be exporting the interferogram, not the raw data. If we had added the dosy processing to the y axis we would be exporting the dosy plot.

EXPORTING DOSY DATA

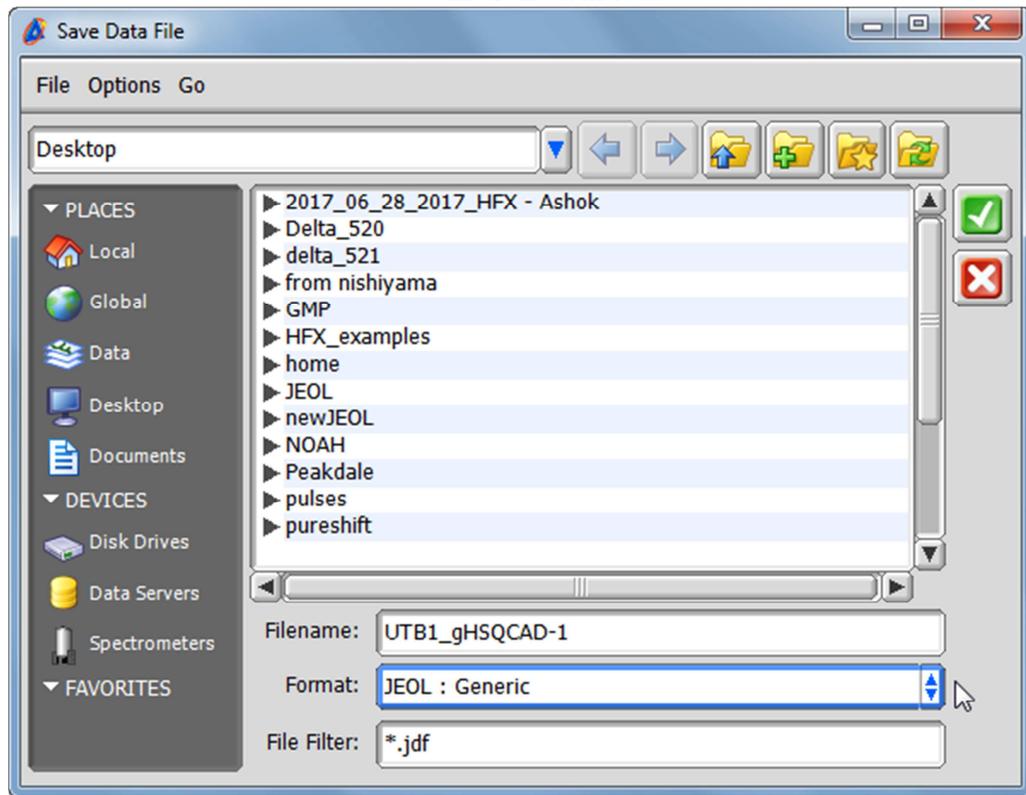
- 1) Remove all processing steps by selecting each column and clicking the clear processing list button . The processing lists must look like this:



- 2) Go to menu File > Save as...
We need to choose "JEOL : Generic" as the export format
 - a) In Delta versions up to 2017, the export format is selecting in menu File>Export Format



- b) In later Delta versions, the export format can be selected from the Format drop down field at the bottom of the window.



Choose the location and filename where the data should be saved and click on the  button. If successful this should have generated two files, an .hdr file containing the data parameters and a .bin file containing the FIDs.