Delta Tips

NMDT_0053

How to Use Macro Buttons

NMR data processing software

Delta
NMR Software
v5.0

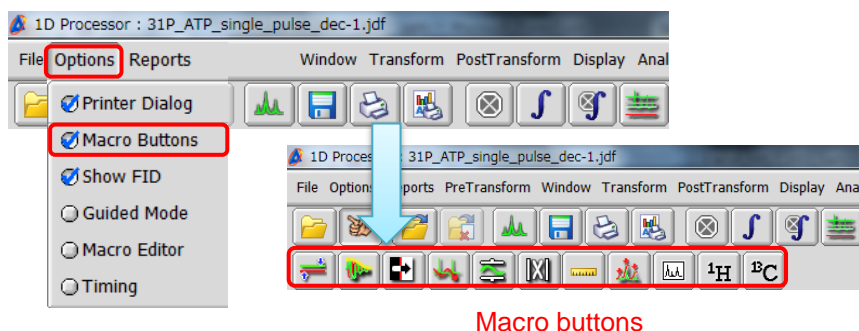## ＜ How to assign a processing list to the user defined macro button ＞

The macro buttons have useful pre-defined data processing functions. With the **User Defined** macro button , you can assign your favorite processing list to it.

User Defined macro button

Pre-defined macro buttons
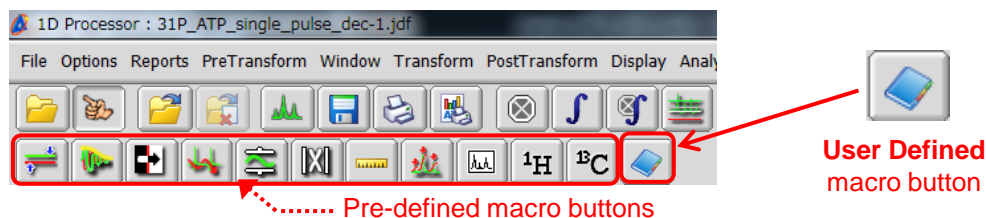
★ About the default function of each button, please refer to the **User's Data Processing** manual.

★ You can also use the macro buttons in the **2D Processor** window .
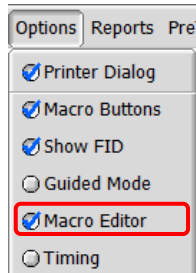
1 How to add the User Defined macro button to the tool bar

① Select **Options – Macro Buttons** to display the macro buttons tool bar in **1D Processor**.
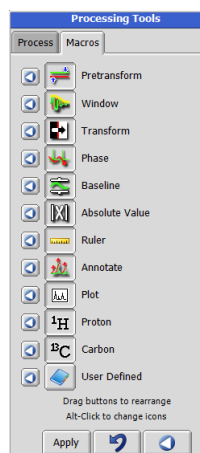

Macro buttons

② Select **Options – Macro Editor** to display **the Macros** tab in **the Processing Tools** window.
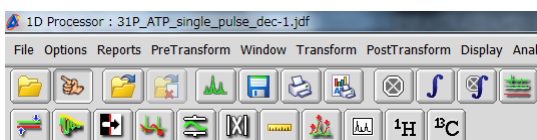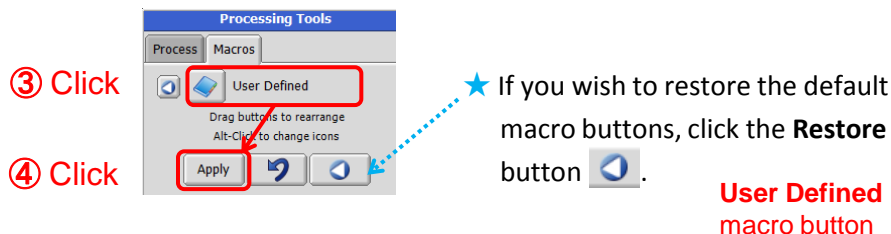
Options menu

Macros tab

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③ Click the **User Defined** macro button and ④ the **Apply** button Apply in the **Macros** tab.

③ Click

Processing Tools

Process | Macros

User Defined

Drag buttons to rearrange
Alt-Click to change icons

④ Click | Apply

★ If you wish to restore the default macro buttons, click the **Restore** button.

User Defined macro button
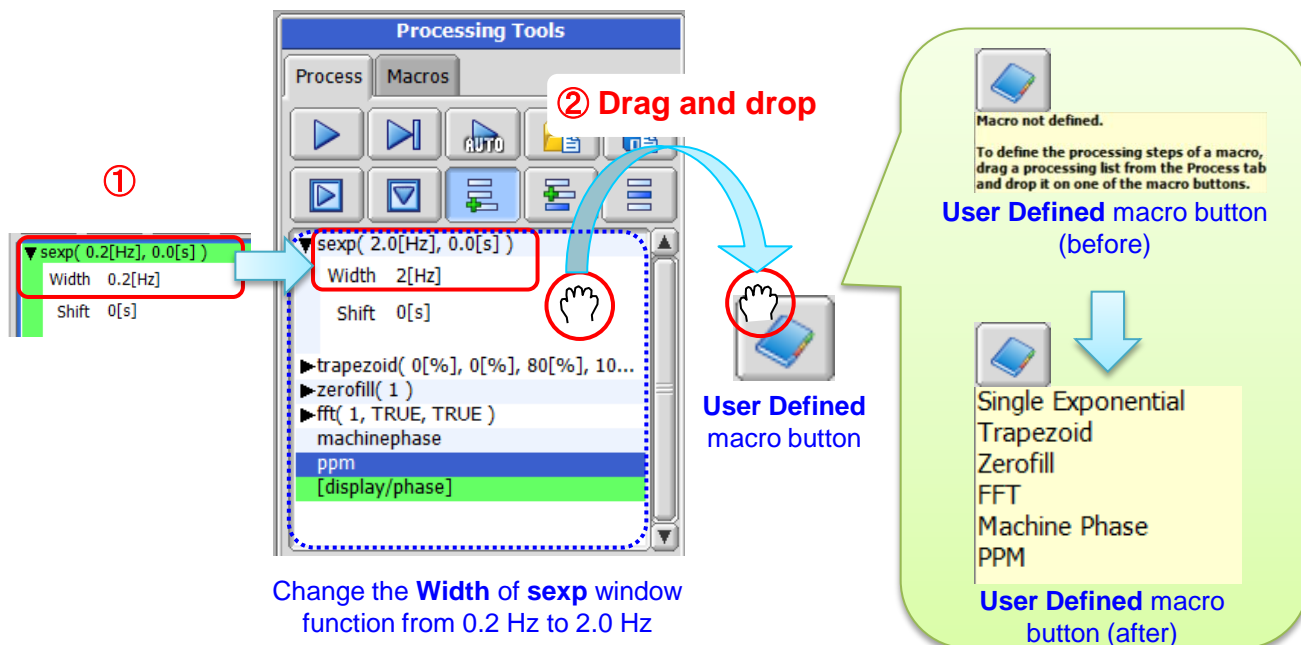
Macro buttons tool bar (before)
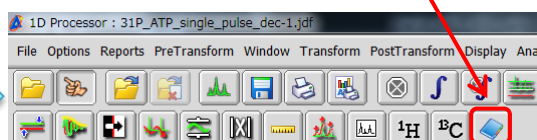
Macro buttons tool bar (after)

★ When the **User Defined** macro button has been added to the tool bar, it has no function.

2 How to assign a processing list to the User Defined macro button

In the example below, we will create a processing list which could be used to process ^{13}C or multinuclear NMR data. For this reason, we will modify the default ^{1}H processing list by increasing the width of the single exponential window function from 0.2 Hz to 2.0 Hz. Next, we will assign this new processing list to the **User Defined** macro button.

① Change the **Width** value from 0.2 Hz to 2 Hz.

② Push and hold the right-mouse-button in the **Processing list** area and drag and drop it onto the **User Defined** macro button.

Processing Tools

Process | Macros

② **Drag and drop**

①

▼ sexp(0.2[Hz], 0.0[s])
  Width   0.2[Hz]
  Shift   0[s]

▼ sexp(2.0[Hz], 0.0[s])
  Width   2[Hz]
  Shift   0[s]

►trapezoid(0[%], 0[%], 80[%], 10...
►zerofill(1)
►fft(1, TRUE, TRUE)
  machinephase
  ppm
  [display/phase]

User Defined
macro button

Change the **Width** of **sexp** window function from 0.2 Hz to 2.0 Hz

Macro not defined.

To define the processing steps of a macro, drag a processing list from the Process tab and drop it on one of the macro buttons.

User Defined macro button (before)

Single Exponential
Trapezoid
Zerofill
FFT
Machine Phase
PPM

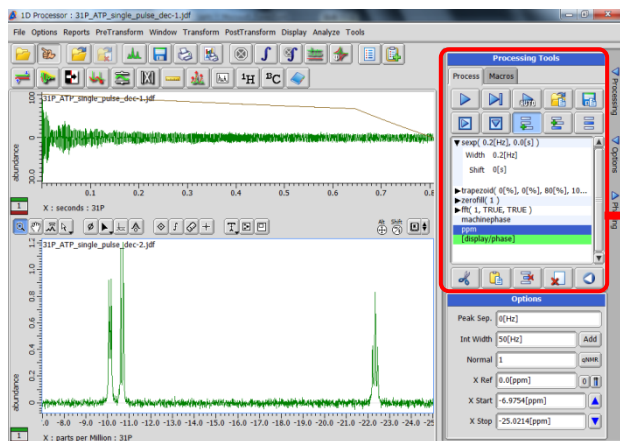**User Defined** macro button (after)

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Delta Tips

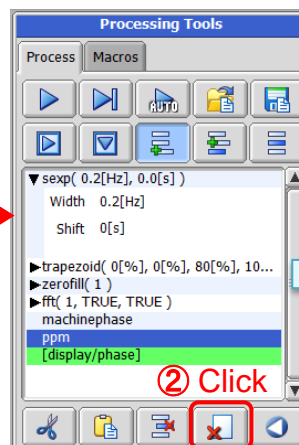## 3 How to use the User Defined macro button

In the example below, we will demonstrate how to use the processing list created in step 2

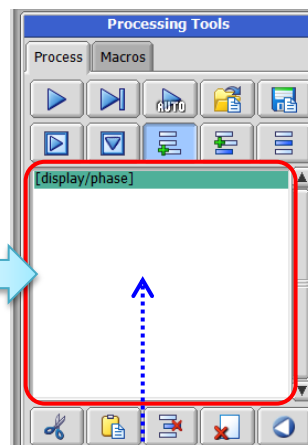① Open a data file in the **1D Processor** window.

② Click the **All Delete** button to delete the default processing list.
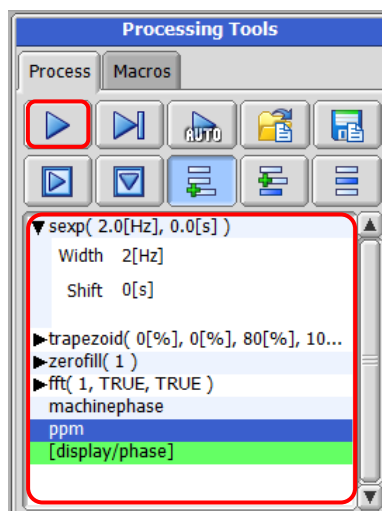
1D Processor window

All Delete button

Empty processing list

③ Click the **User Defined** macro button and ④ the **Execute** button .

④ Click

③ Click

User defined macro button
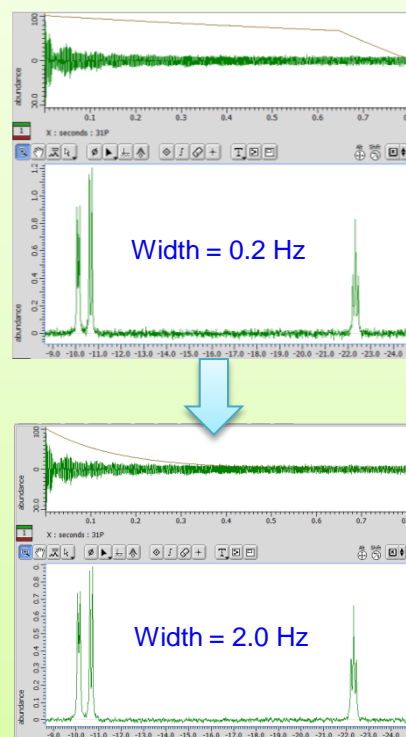
Execute the processing list

The effect of the processing list on ^{31}P NMR data.

Width = 0.2 Hz

Width = 2.0 Hz