USING FREDALAX

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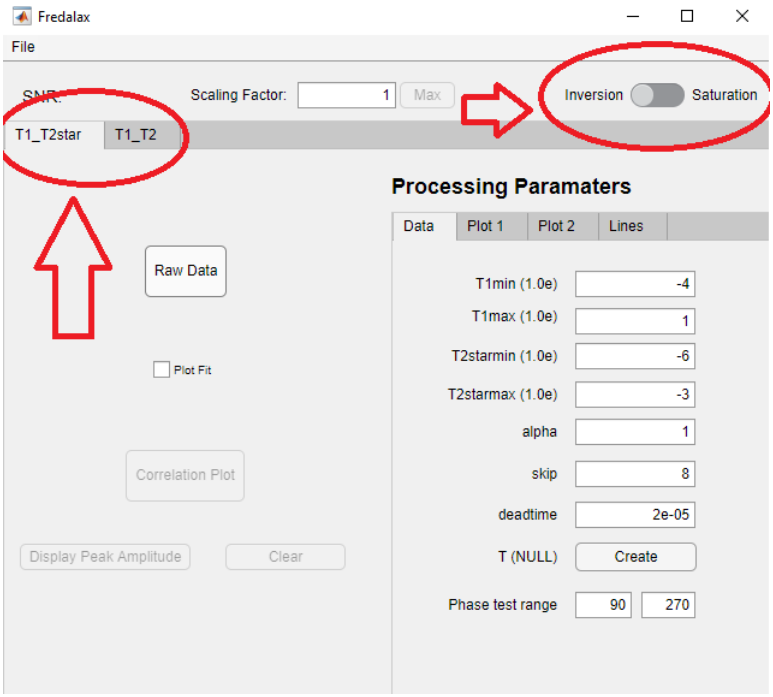
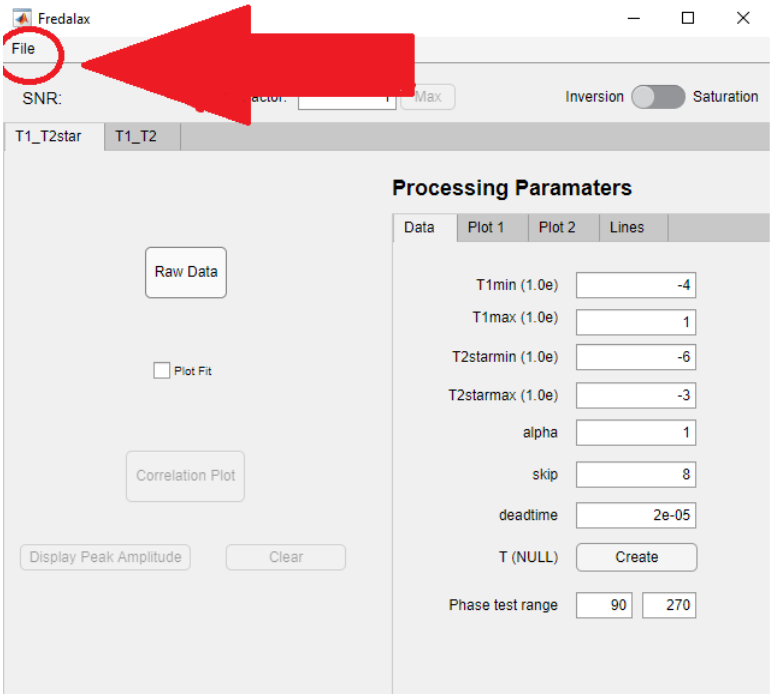
Getting Started:

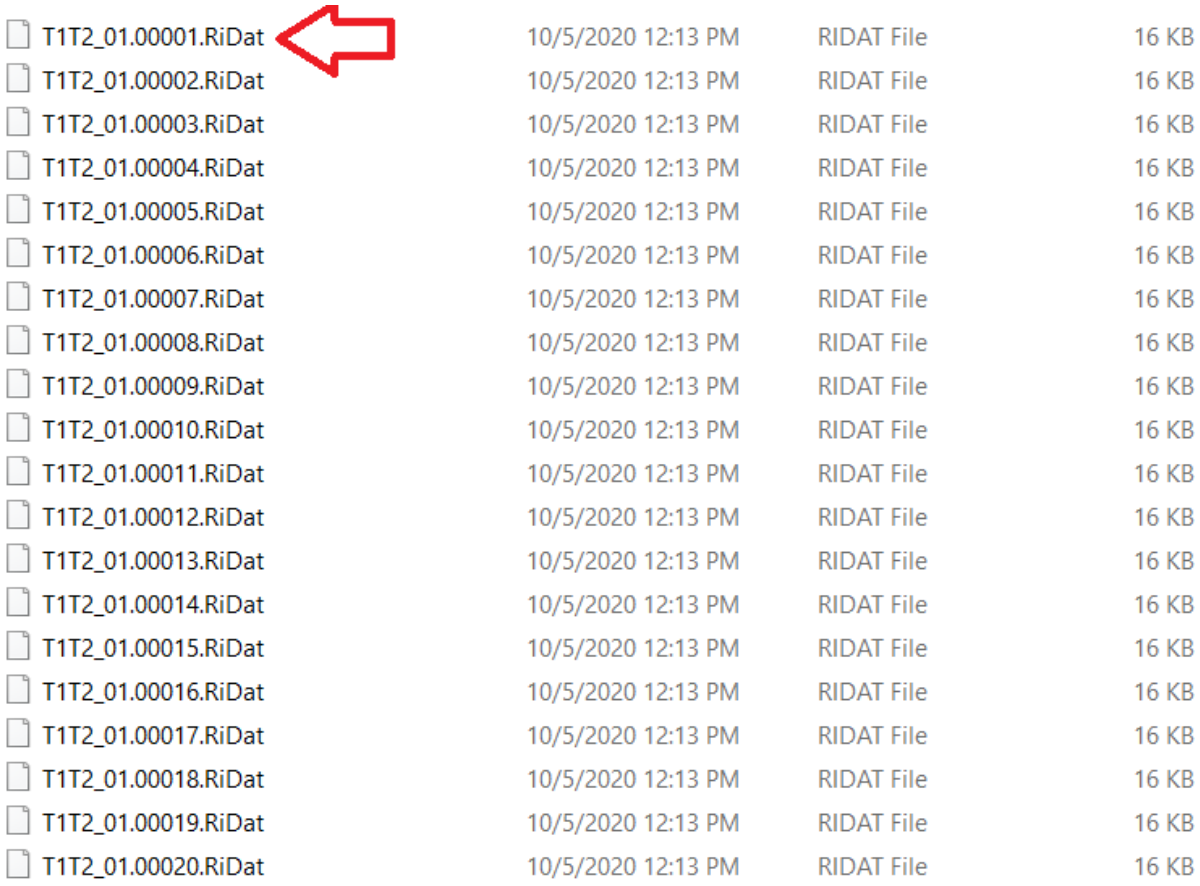
Select T1,T2star or T1,T2 tab and use Saturation/ Inversion switch:



Load Data File:

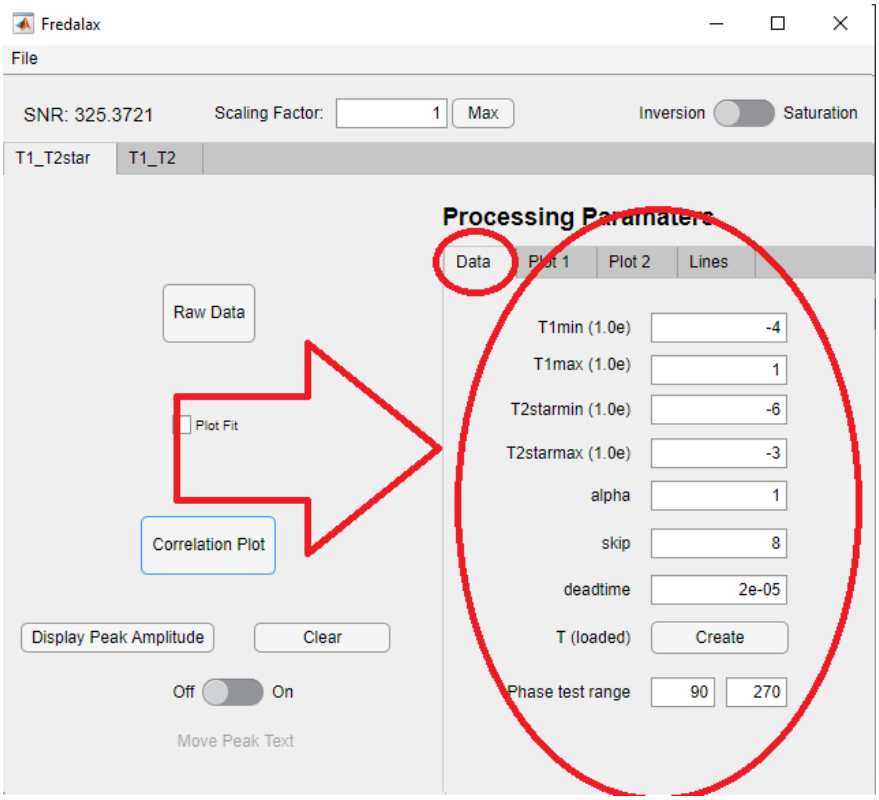


If the desired file to load is a RiDat file select the first file in the folder EX:

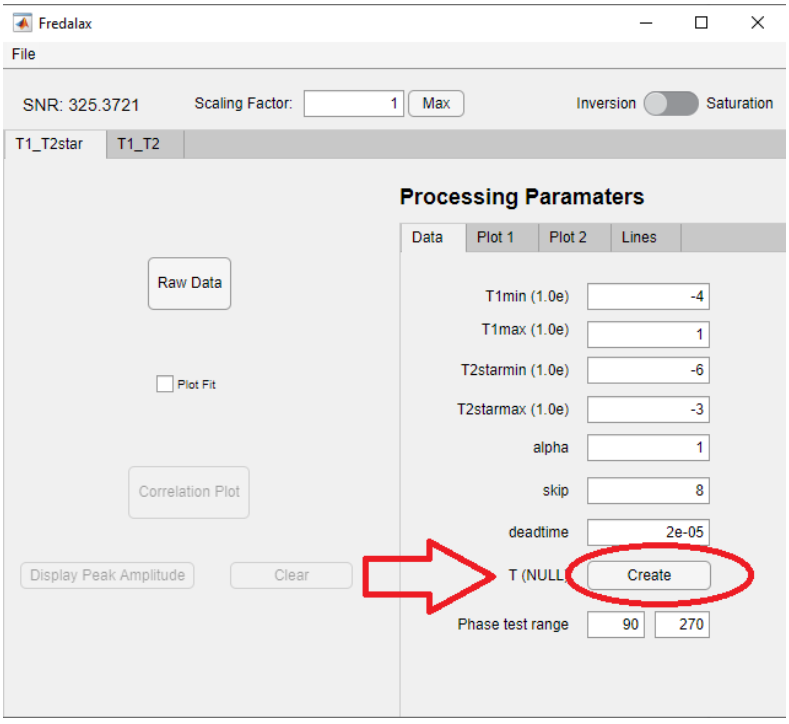


The RiDat file will take some time to load in and will set acquisition parameters according to the dataset.

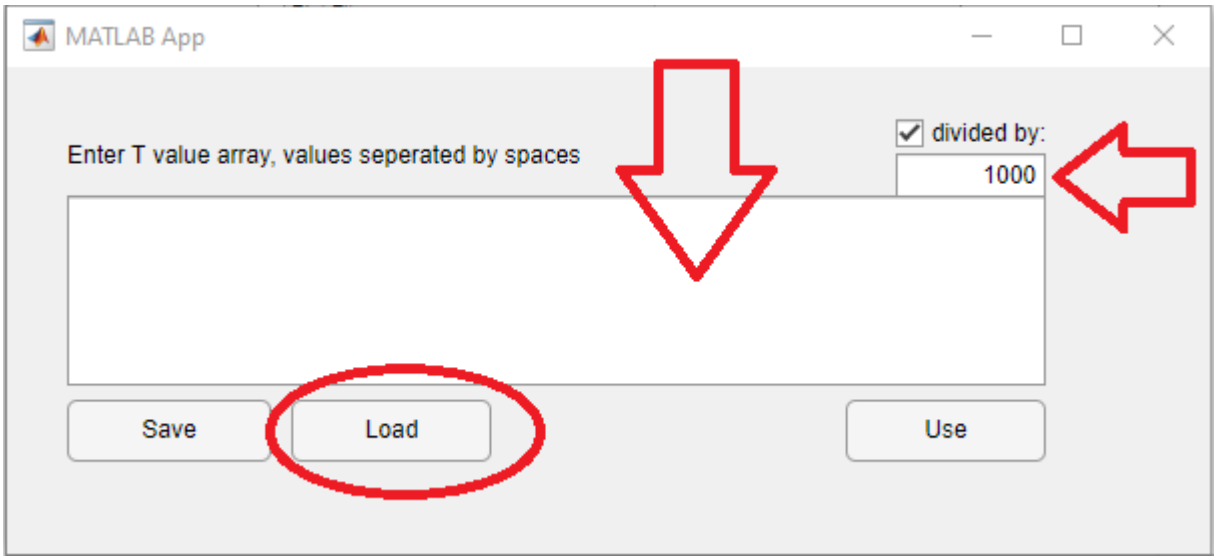
Under the Data tab adjust parameters accordingly:



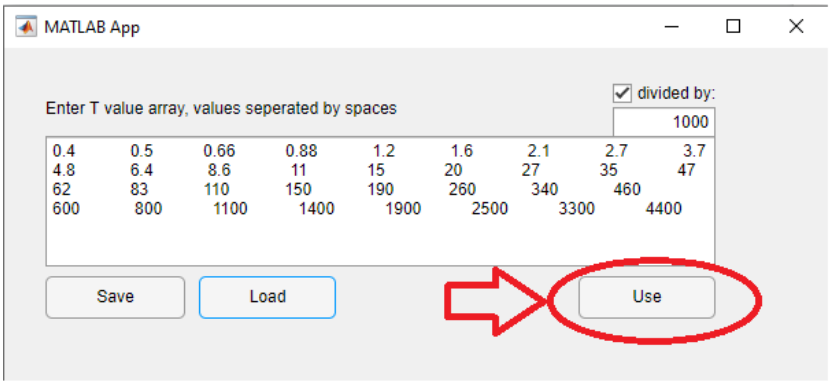
Load or create T array



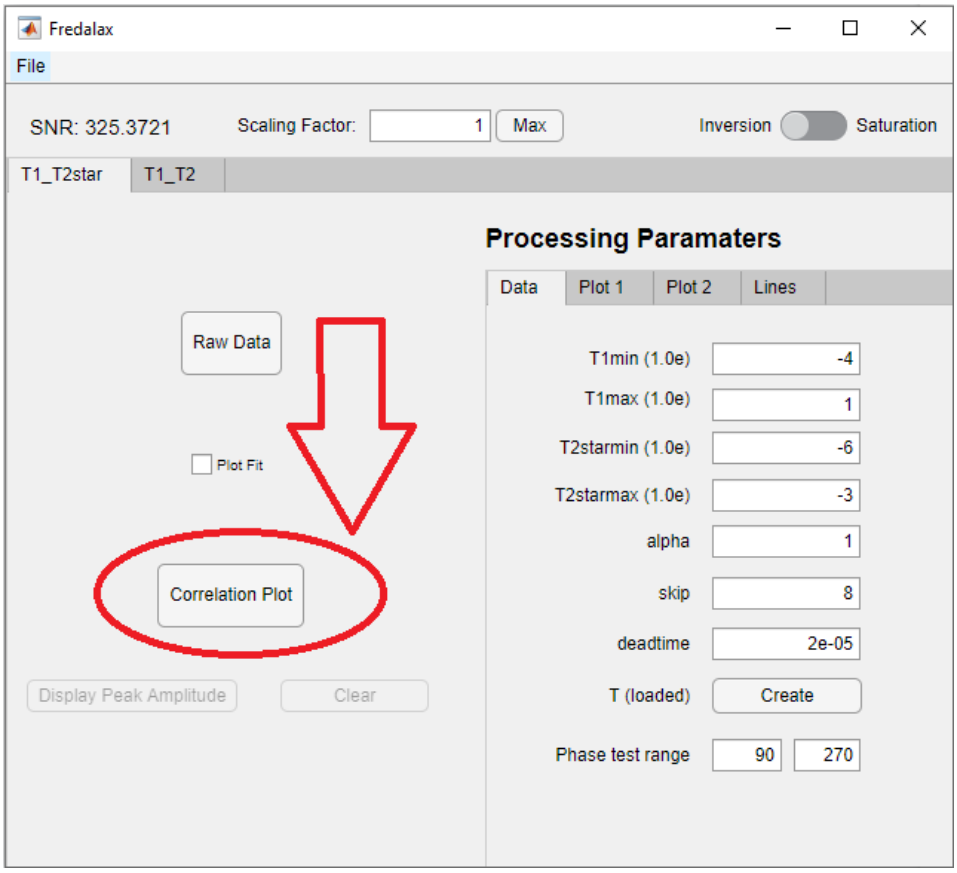
Enter T array with values separated with spaces by either pasting in the text box or by loading a file and adjust the devisor accordingly. Refer to the acquiring Tarray PDF for detailed instructions :



Click-use:



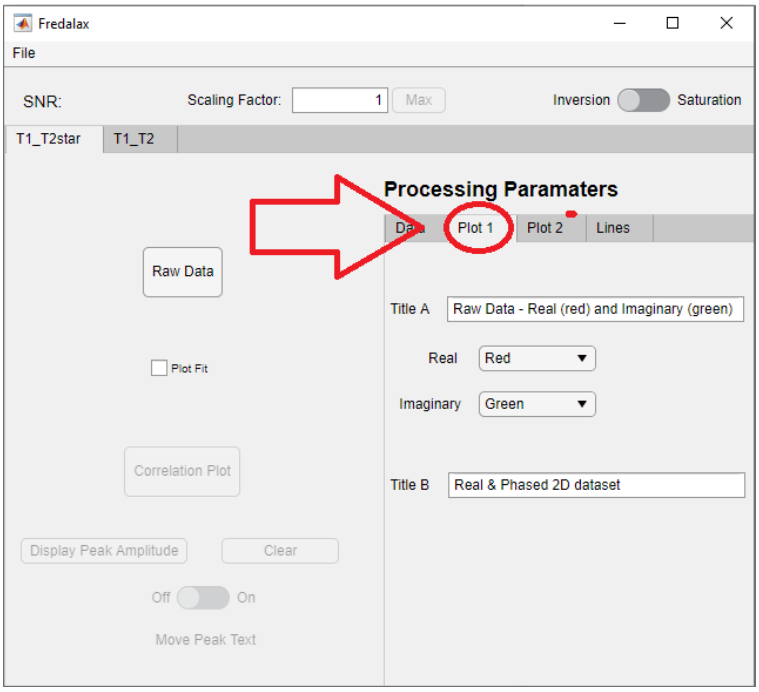
Notice the Correlation Plot button is now enabled and a correlation plot can now be generated:



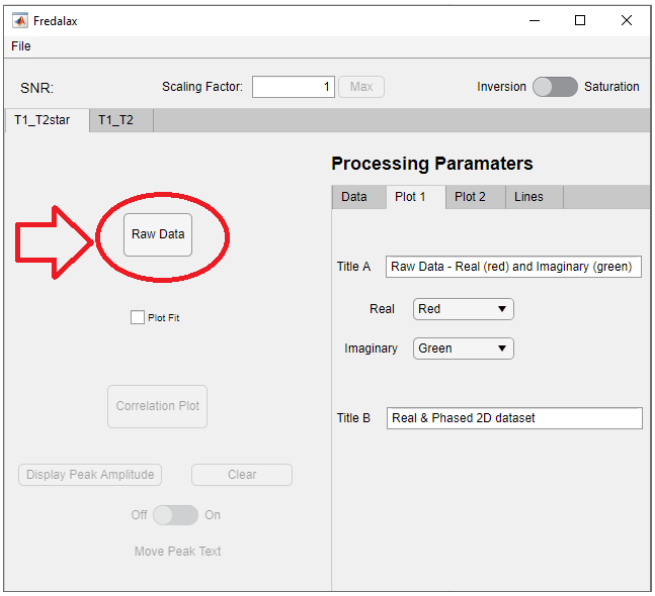
Plot 1:

This plots the raw data from the file and does not require a loaded Tarray.

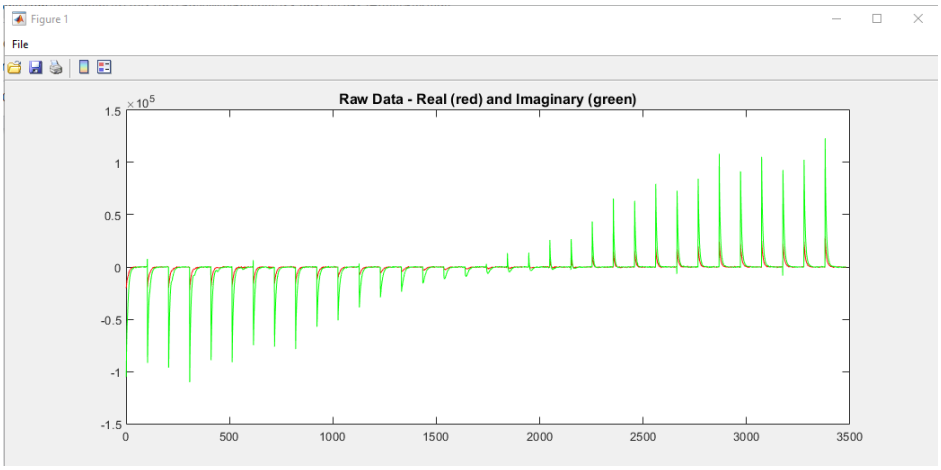
Select the Plot 1 tab for additional options:

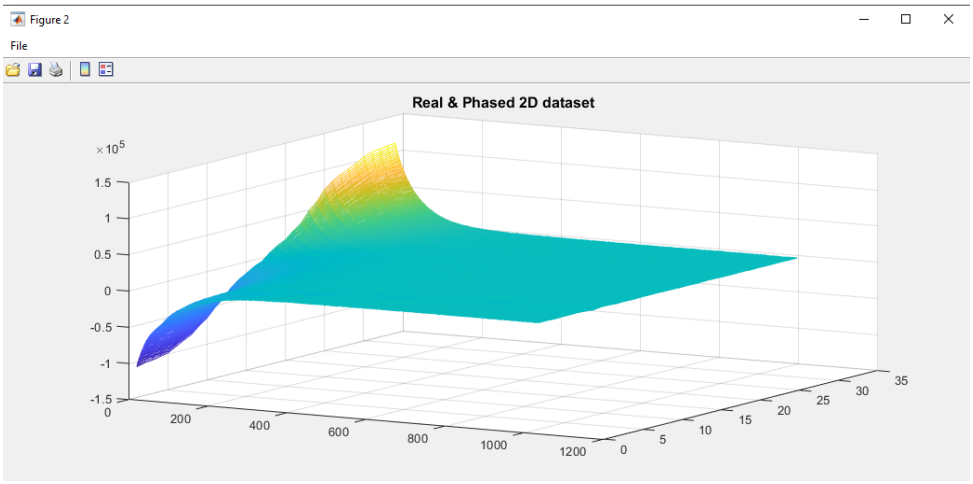


Click Raw Data to generate the plot:



Example output:

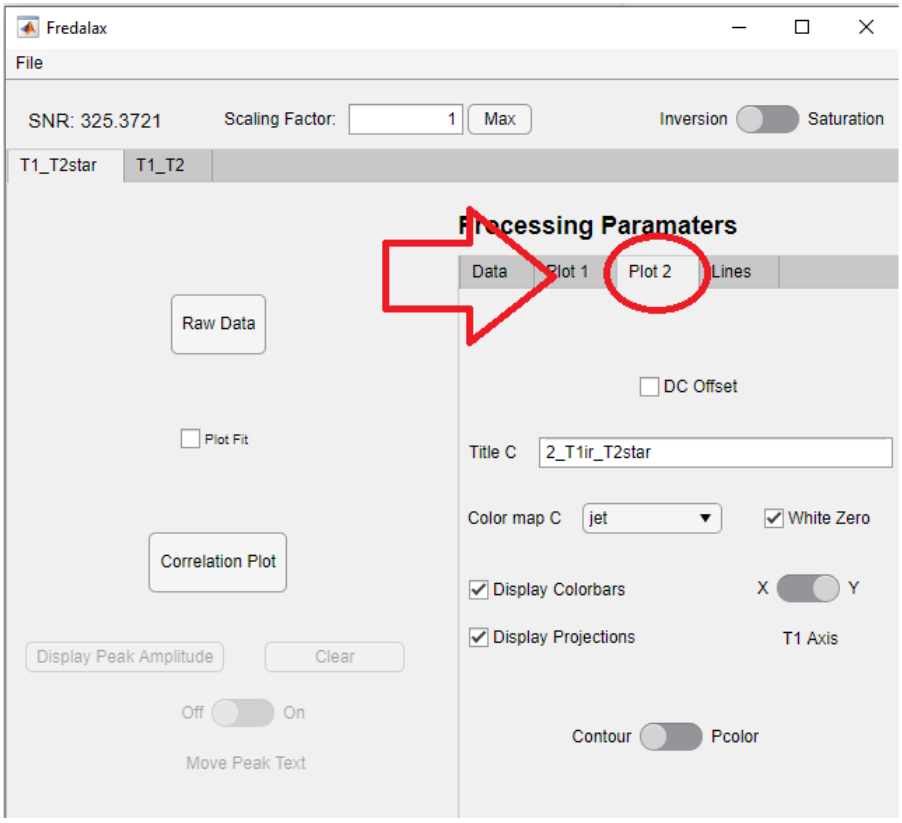




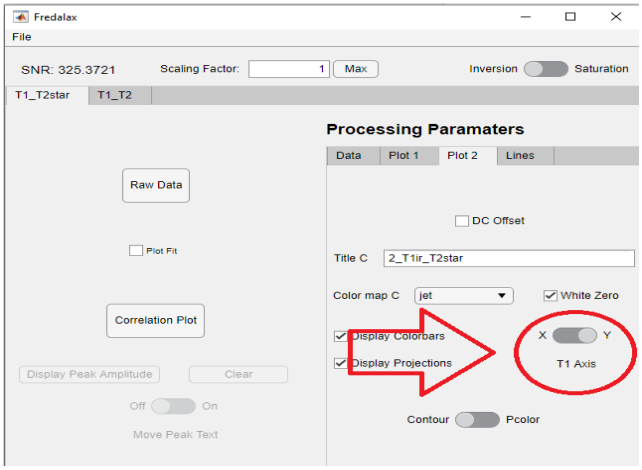
Plot 2:

This is the correlation plot:

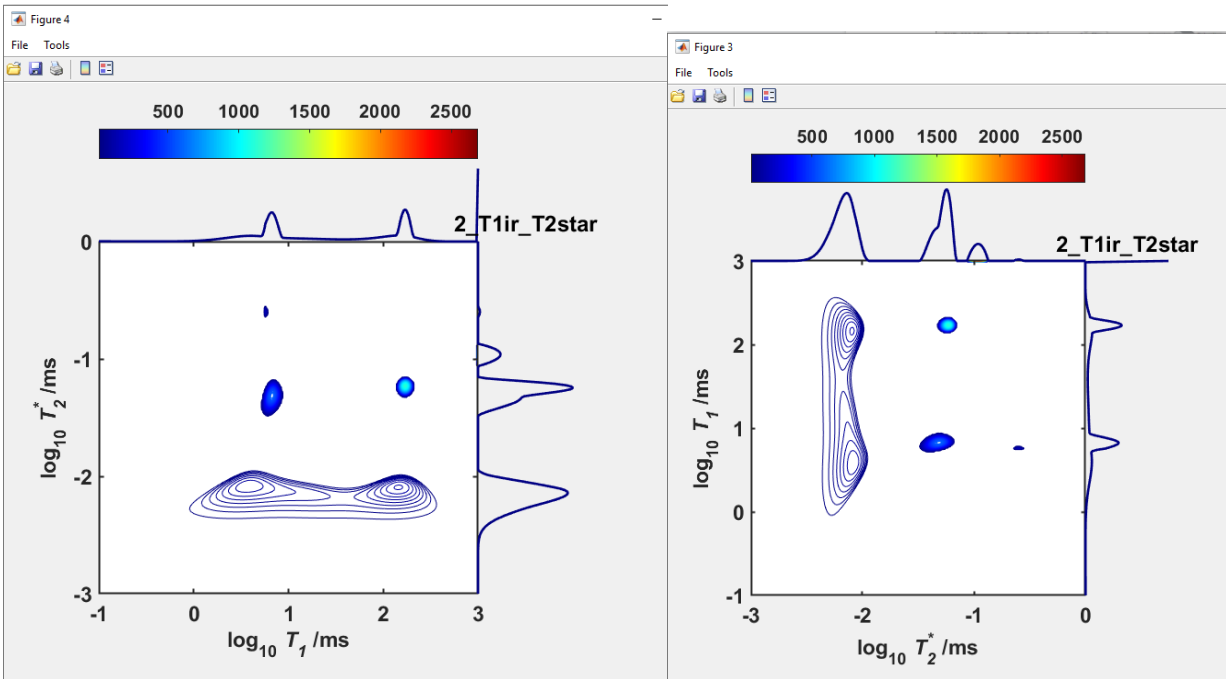
Select the Plot 2 tab for additional options:



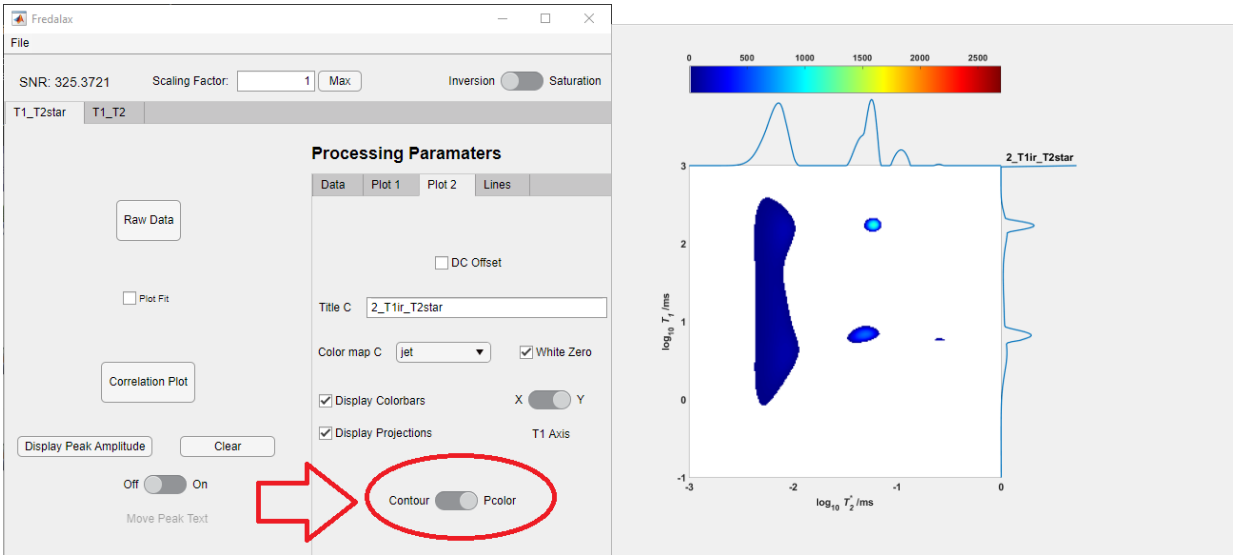
Choose between T1 on the x and y axis
:



Example:

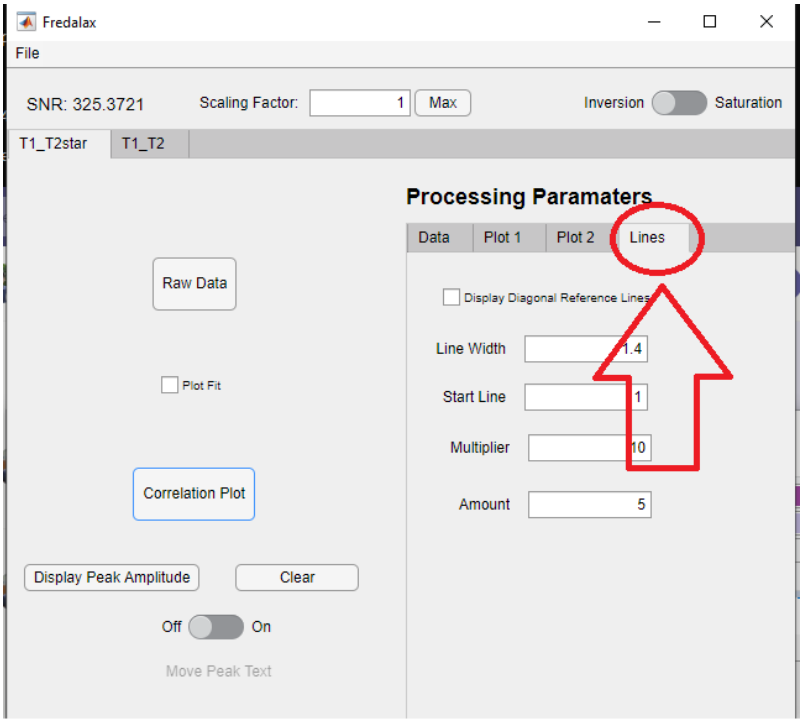


Choose between contour and Pcolor plots:

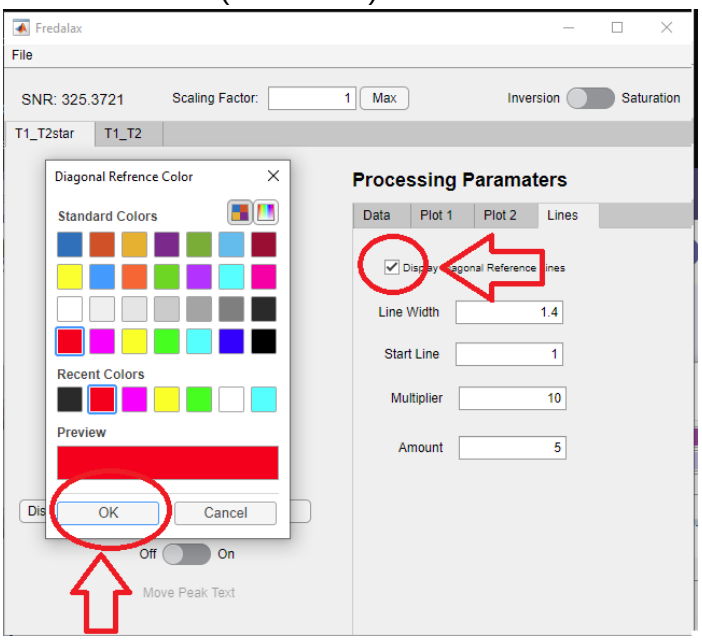


Diagonal Reference Lines:

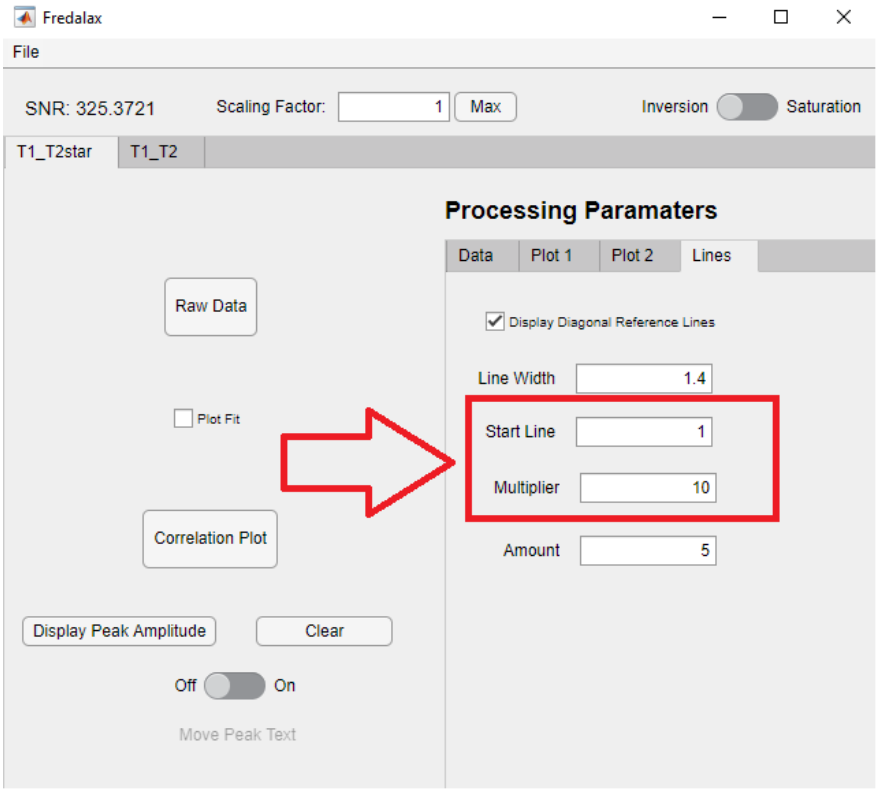
Select the Lines tab:

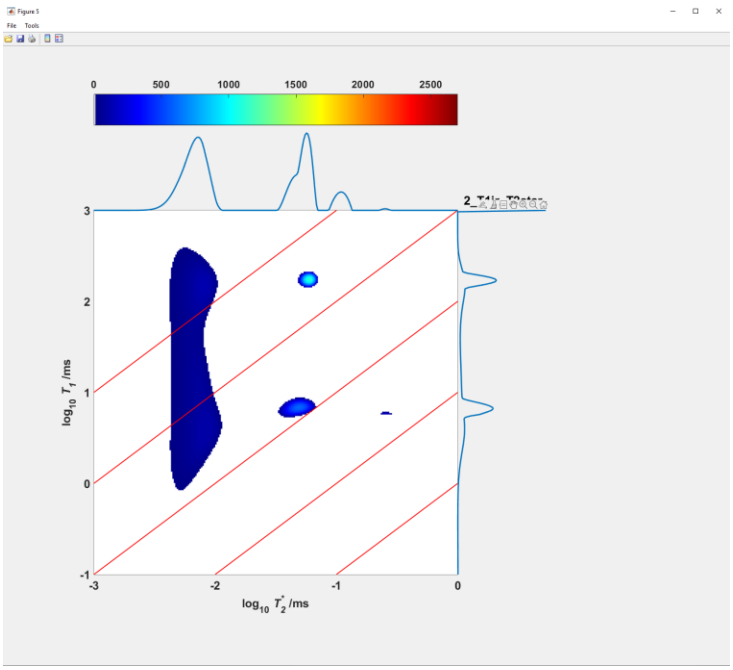


Check the Display Reference lines checkbox, This will bring up a color selection menu, select the desired color(default red) and click OK:



Multiply startline value by powers of ten to increase where the first line is drawn and multiply Multiplier by powers of ten to increase the spacing between lines. The amount is the number of lines drawn. Lines will appear on the next generated plot.

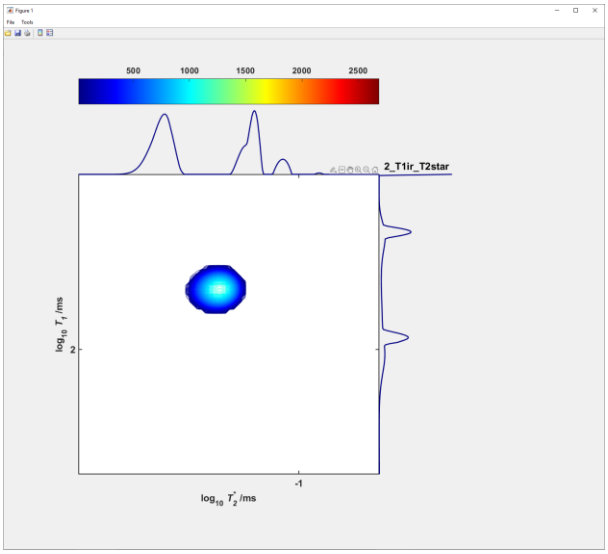




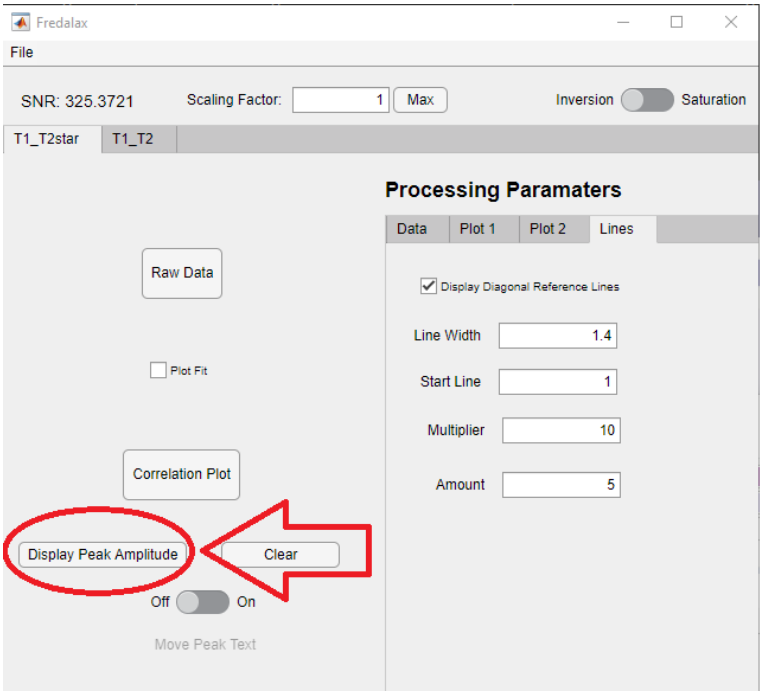
Peak Amplitude:

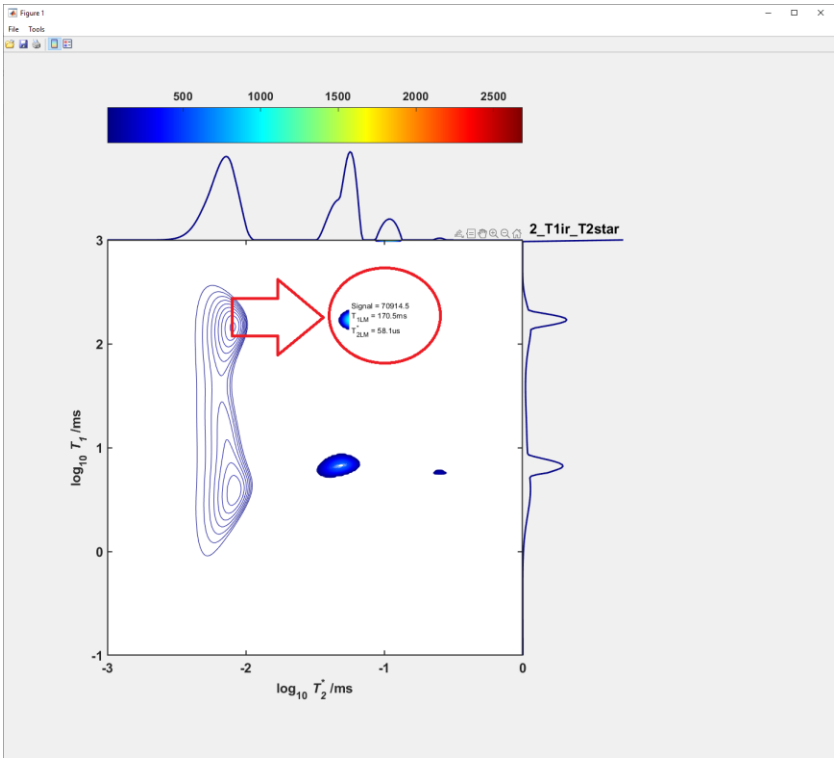
When a correlation plot has been generated, the peak amplitude button can be pressed to display the signal over the location that is zoomed into on the plot:

Zoom into a peak:

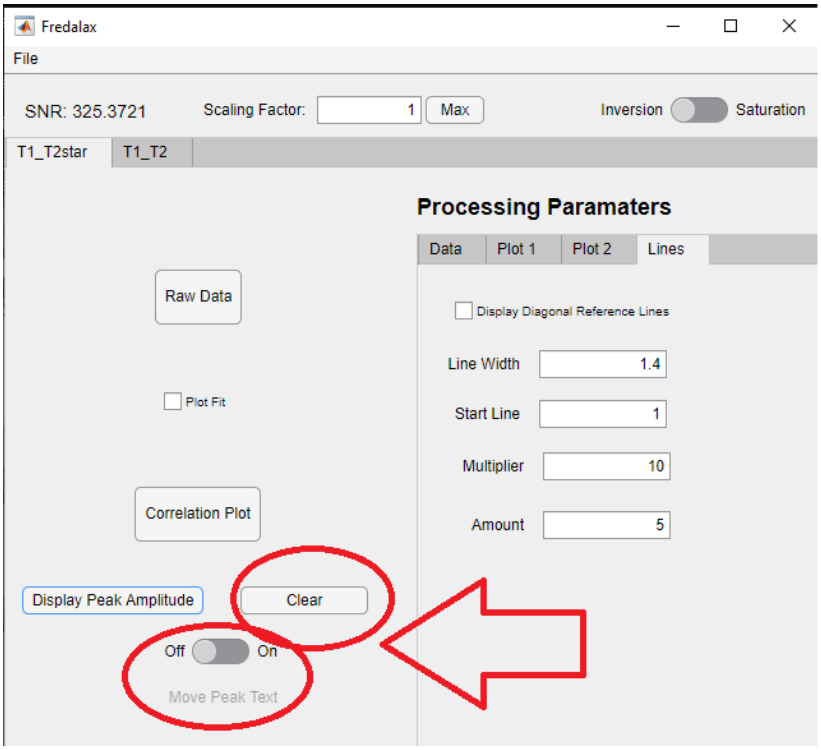


Press the peak amplitude button:

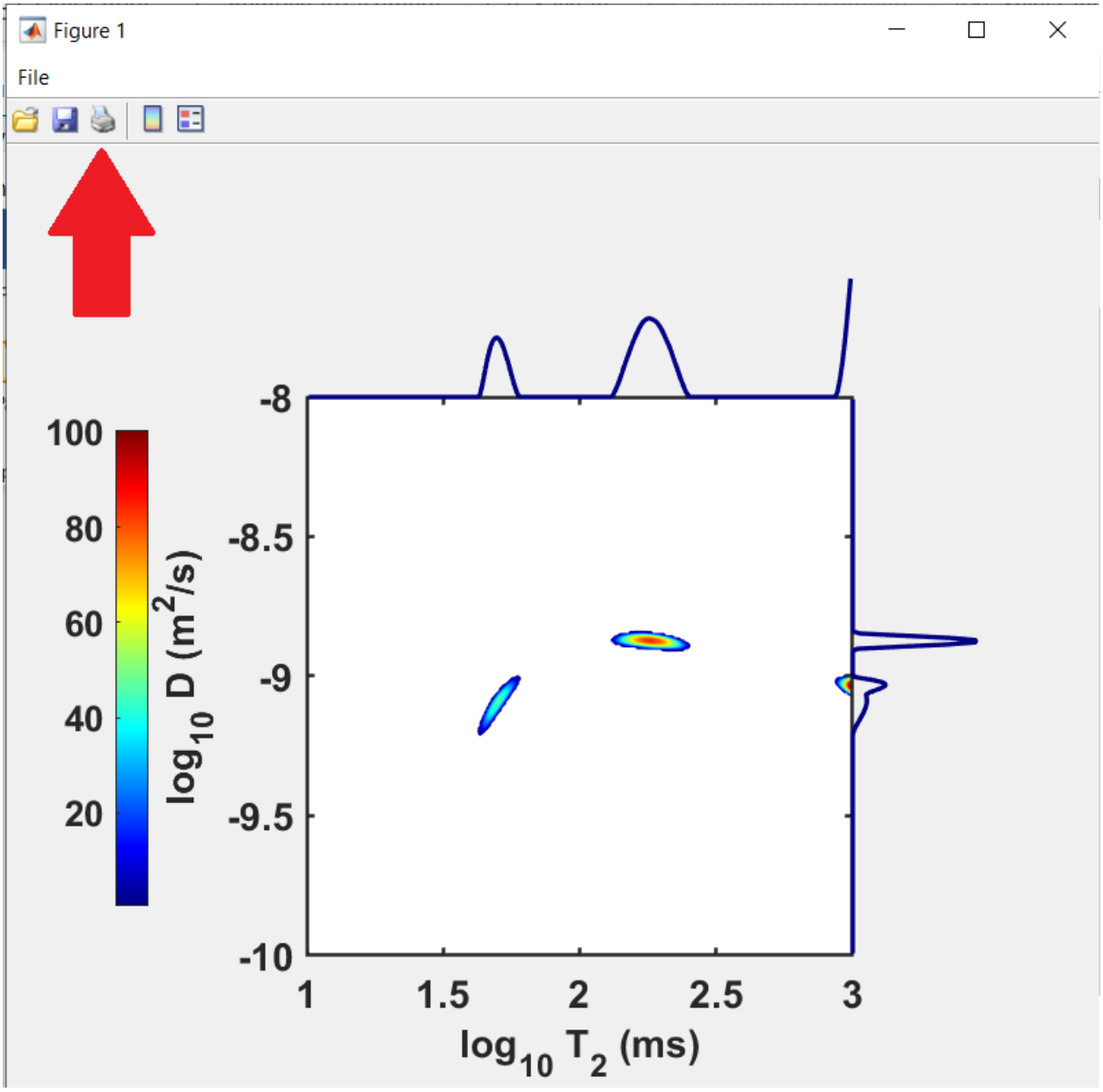




Peak amplitude text boxes can be moved with the move switch and cleared with the clear button (Remember to turn move peak text switch off after):



Printing



There is a print and save tab on each figure that can be used to export the plot.

Scaling and Spacing

Since there are numerous aspect ratios for monitors fredalax doesn't always size and space features in the app correctly for every monitor which can cause overlap of elements in the figure:

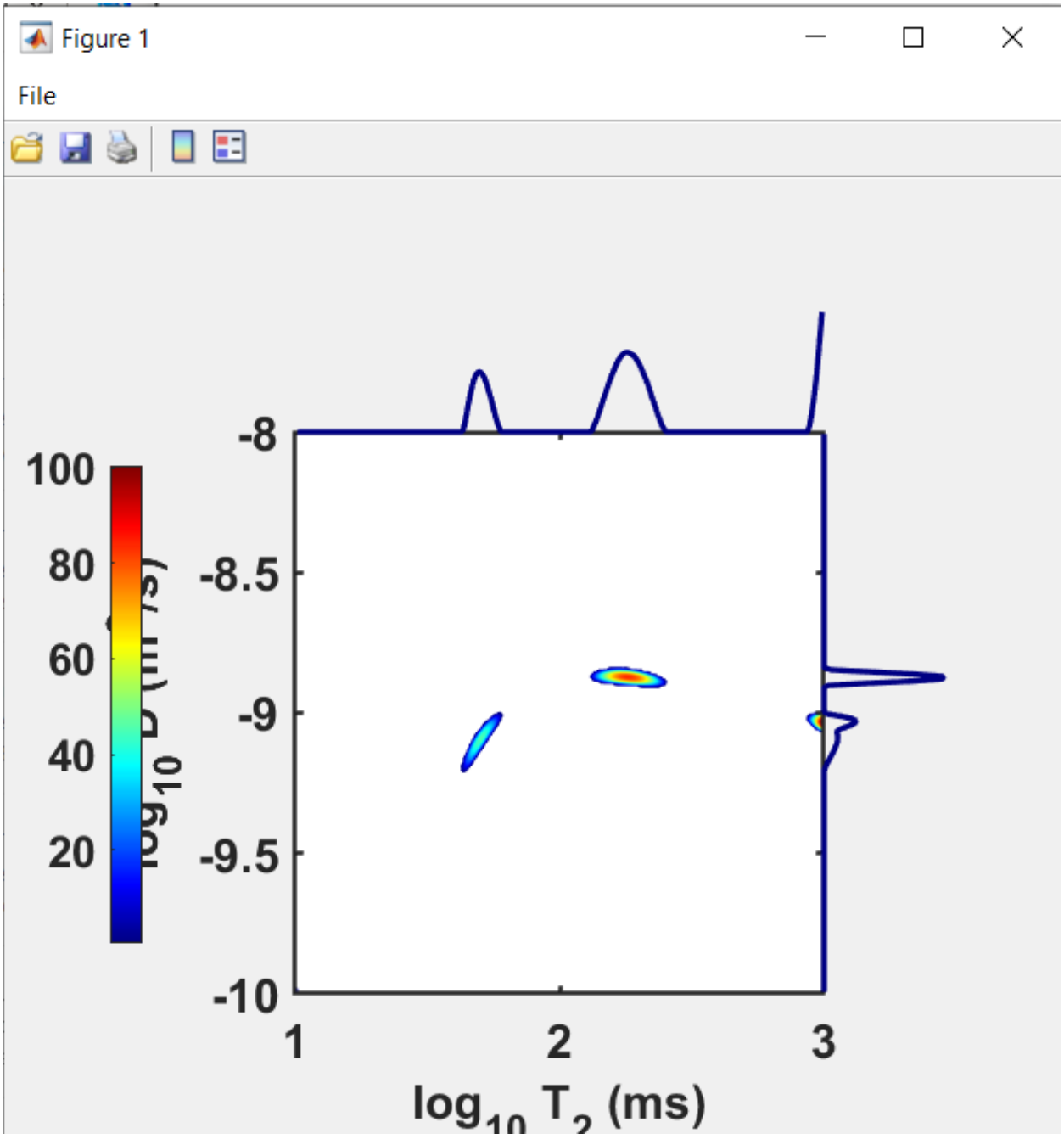
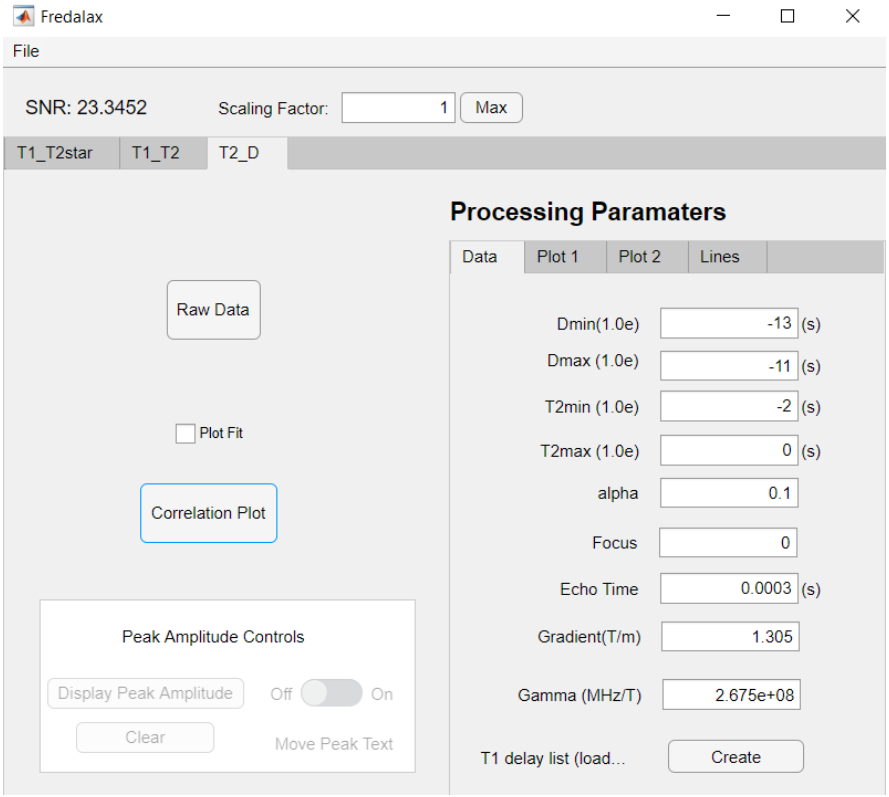


Figure 1
File
100
80
60
40
20
log10 D (m2/s)
-8
-8.5
-9
-9.5
-10
1
2
3
log10 T2 (ms)

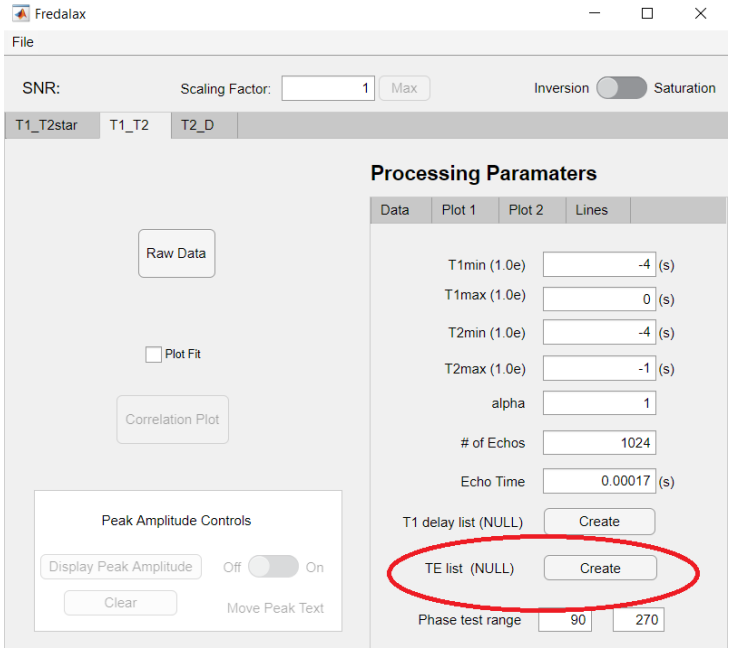
This can be fixed by expanding the figure window from one of its corners to maintain congruence and then export and resize the figure image as desired.

New features in Fredalax 2

1. T2_D calculation type

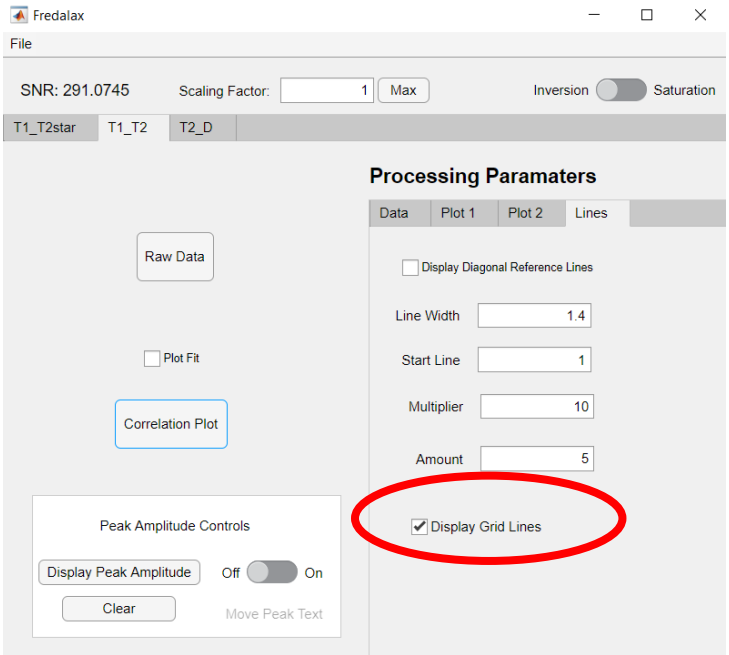


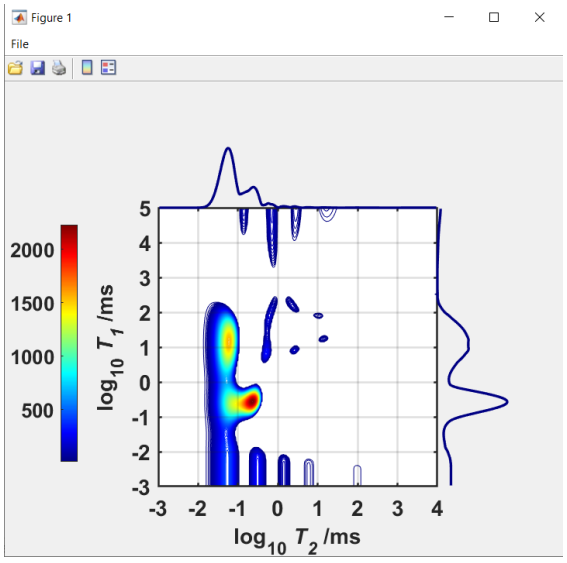
2. Ability to load a T1_T2 file a non-liniar echo sequence



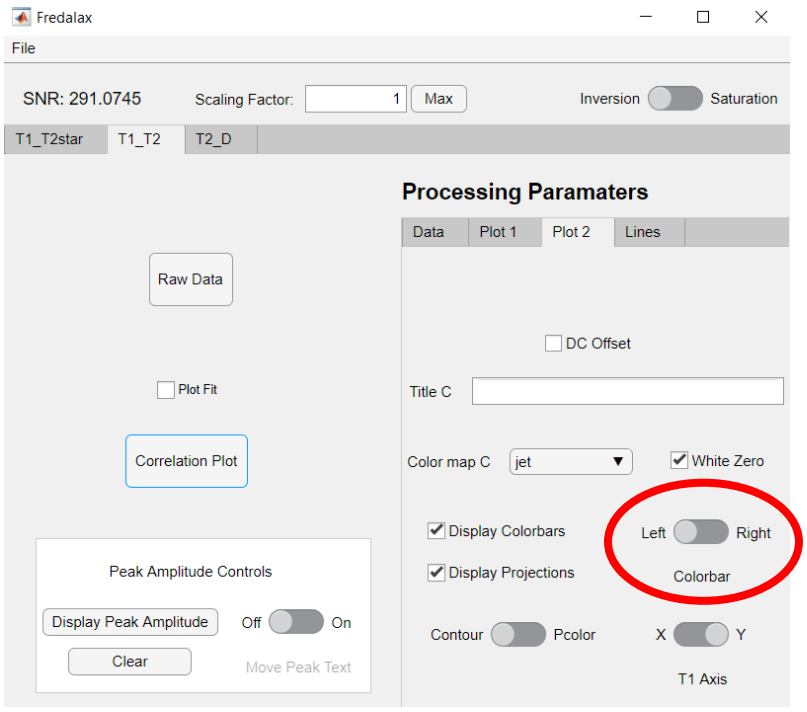
Click the create TE list button to load a non-liniar echo sequence .csv or .txt file or leave as null for the TE to be calculated as liniar.

Grid Lines

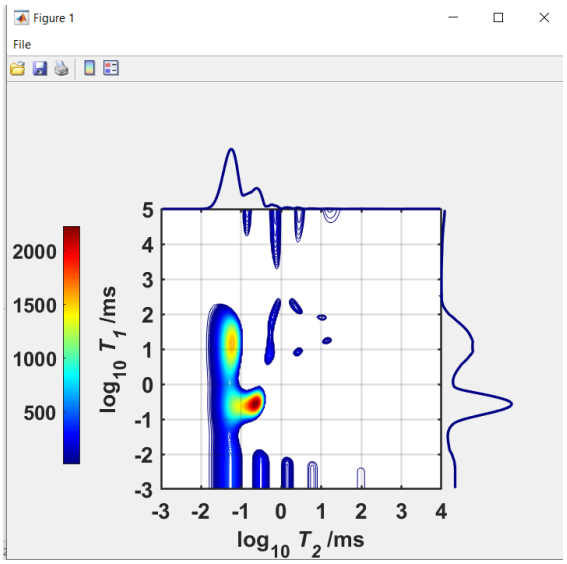




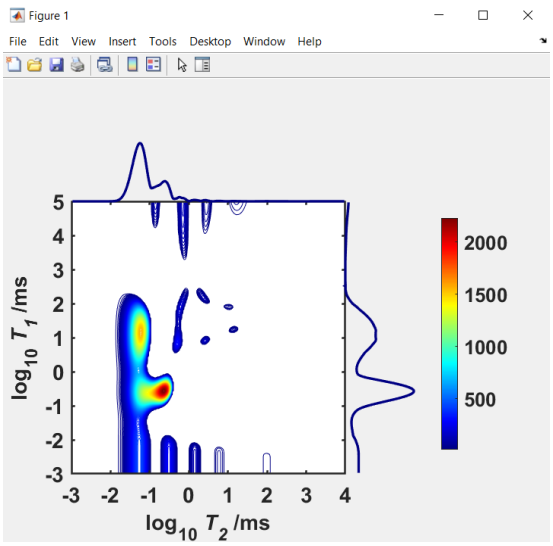
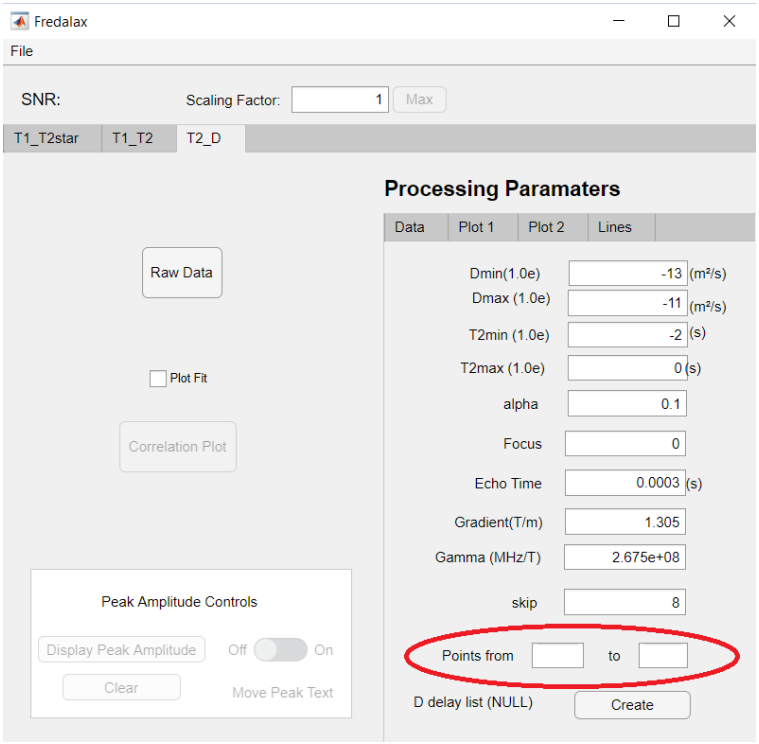
Color bar location switch:



Color bar can be placed on either side of the plot



VS



The T2_D tab now has the option for inputting values for all points in the specified range. This can be left blank and all acquired points in the echos will be averaged by default.