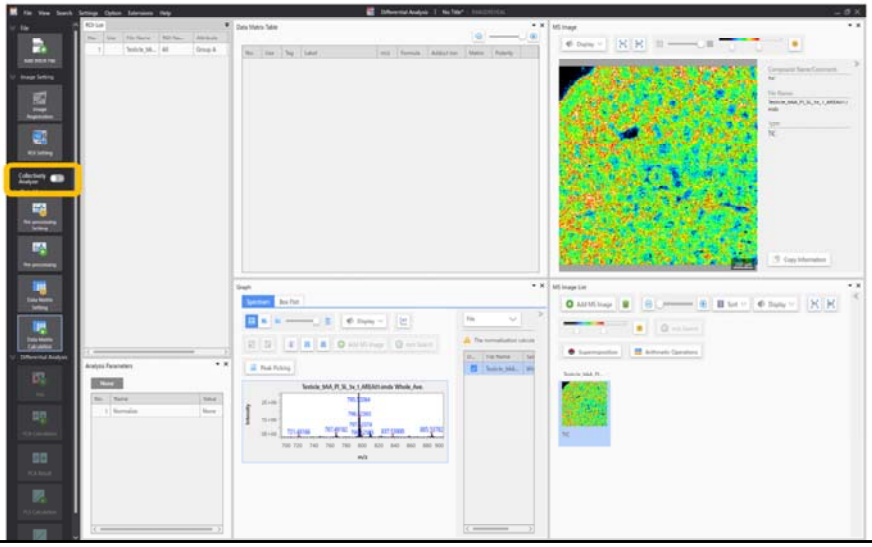
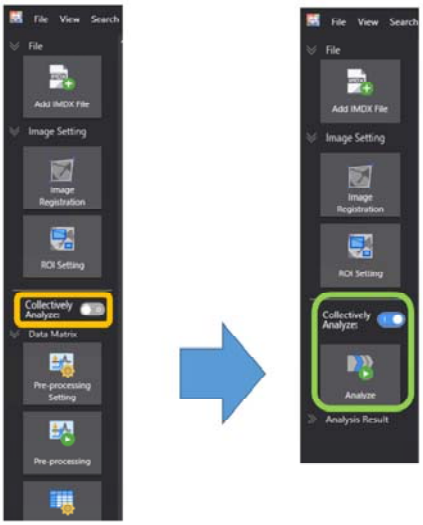
Collective analysis

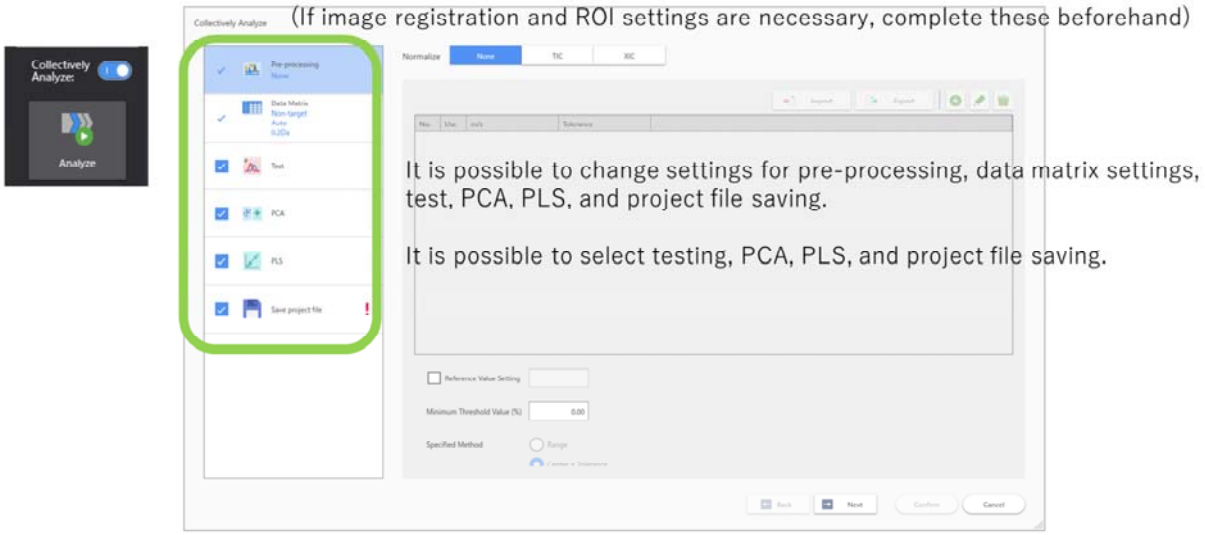
The collective analysis function has been added in version 1.1



Switch on the “collective analysis” and the contents of the menu bar changes

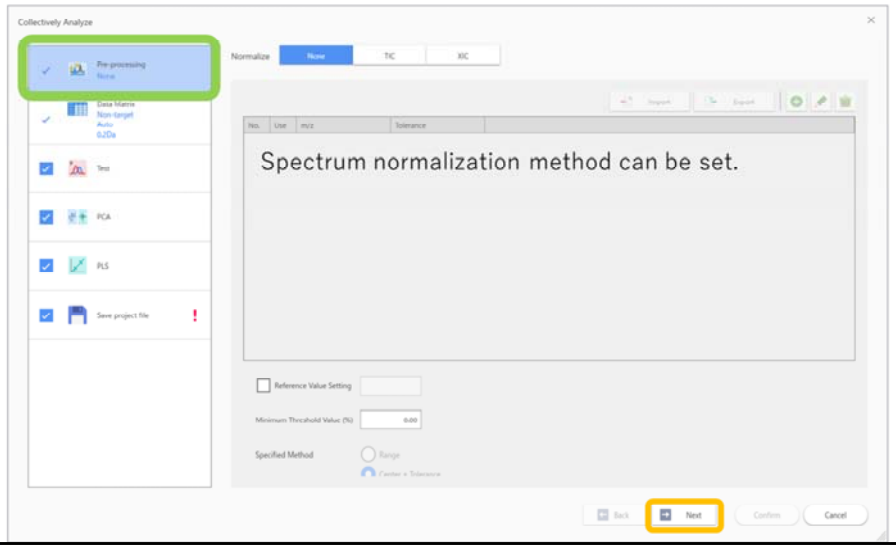


Collective analysis settings screen



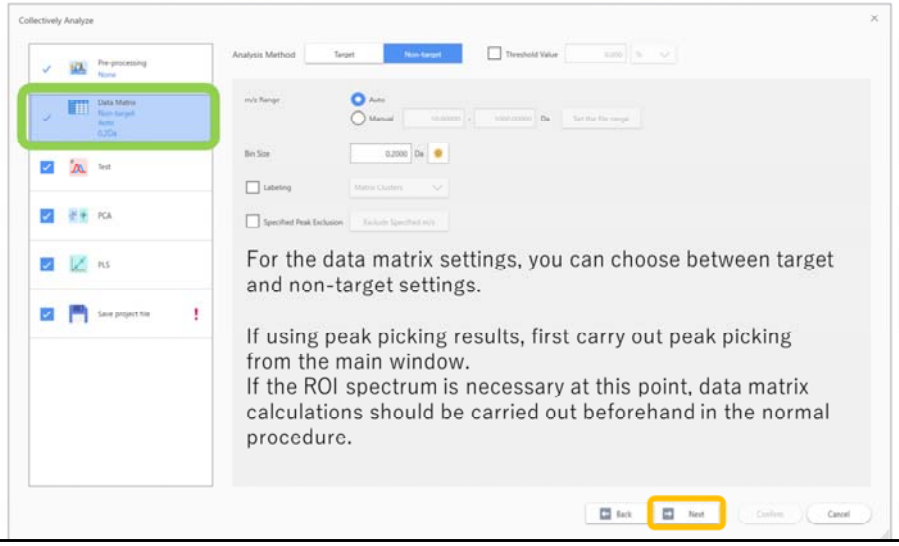
If image registration and ROI settings are necessary complete these beforehand.
It is possible to change settings for pre-processing, data matrix settings, testing, PCA, PLS, and project file saving.
It is possible to select testing, PCA, PLS, and project file saving.

1. Pre-processing (normalization)



Spectrum normalization method can be set.

2. Data matrix settings

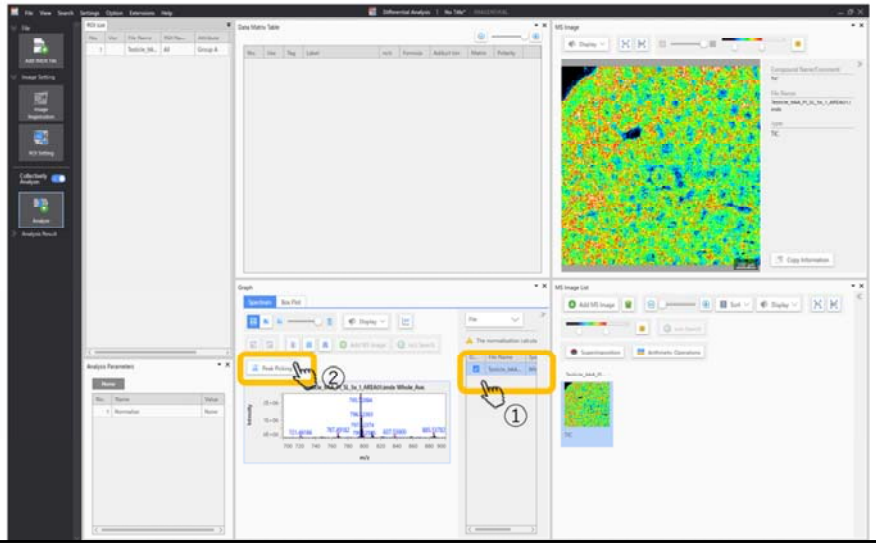


For the data matrix settings, you can choose between target and non-target settings.

If using peak picking results, first carry out peak picking from the main window.
If the ROI spectrum is necessary at this point, data matrix calculations should be carried out beforehand in the normal procedure.

2. Data matrix settings

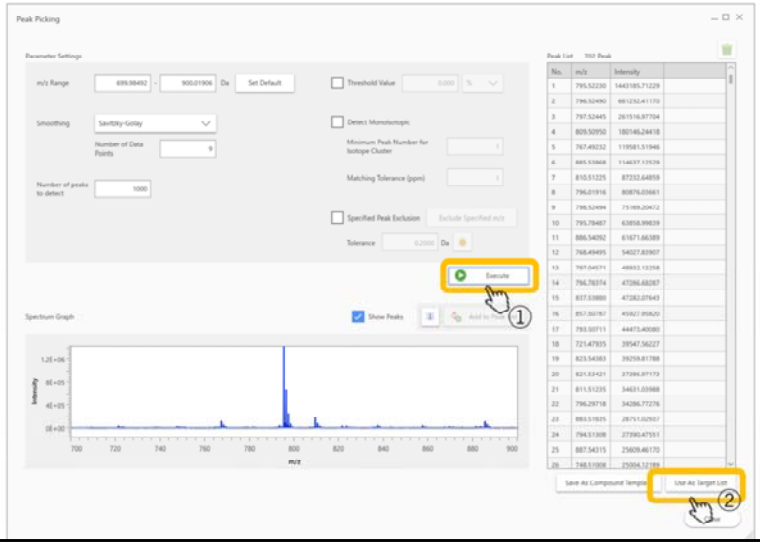
If peak picking is necessary:



Display the spectrum and click the peak picking button

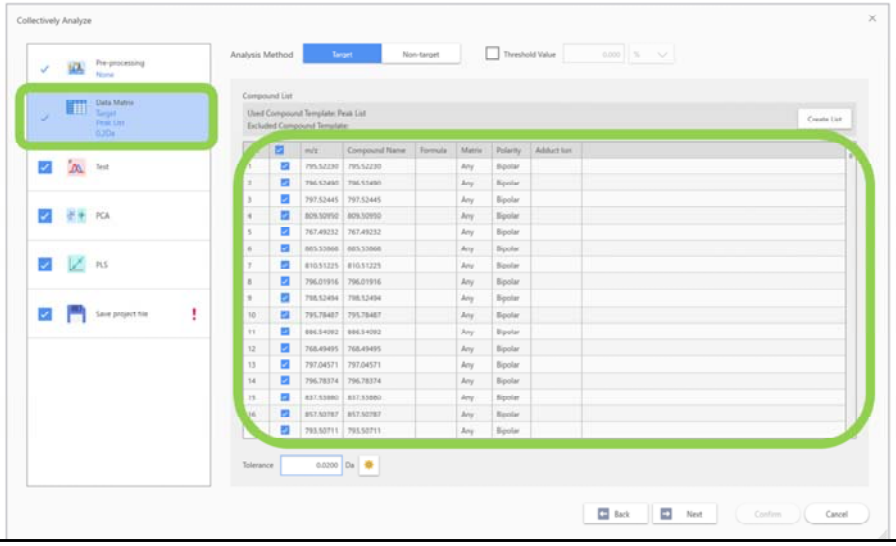
2. Data matrix settings

Peak picking

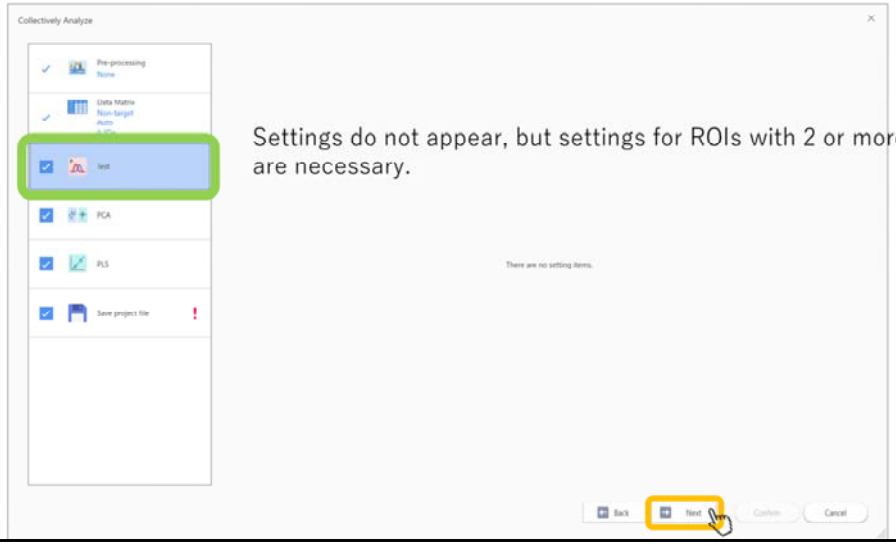


2. Data matrix settings

The peak picking results are automatically input and become target peaks

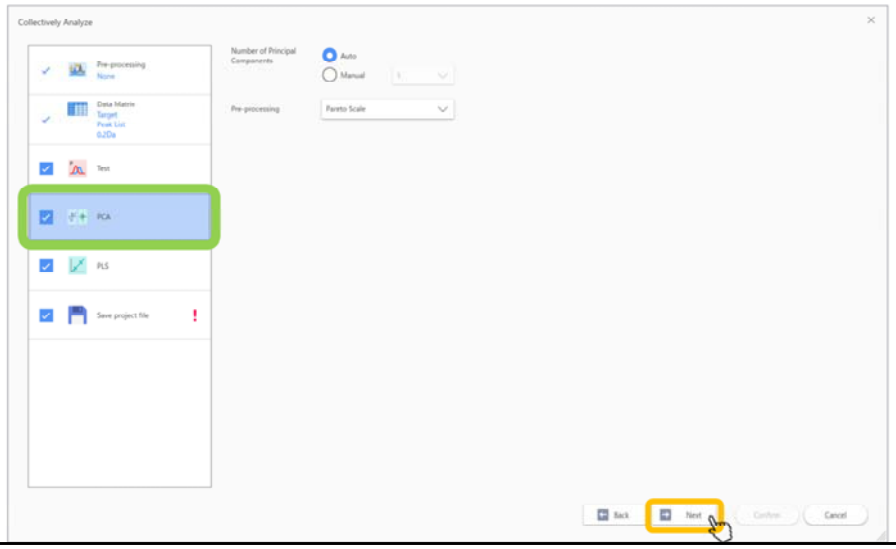


3. Test

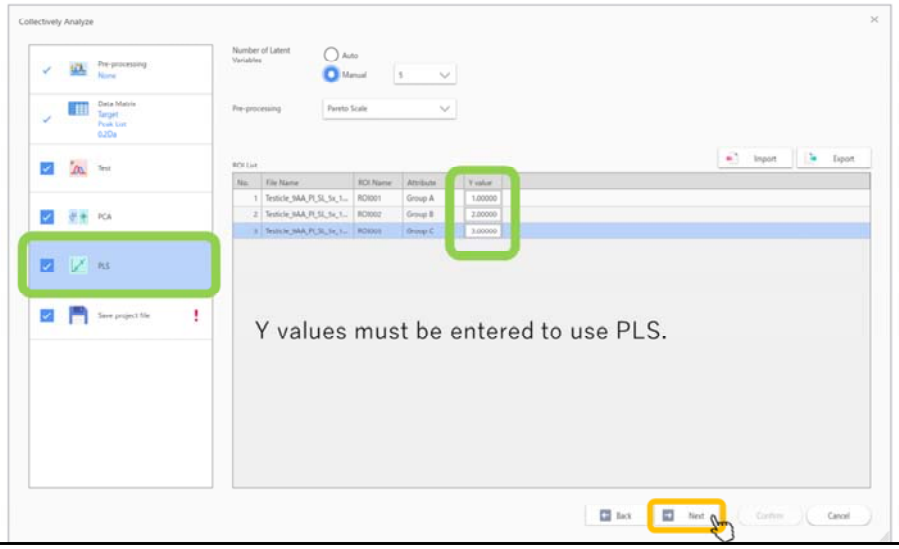


Settings do not appear, but settings for ROIs with 2 or more attributes are necessary.

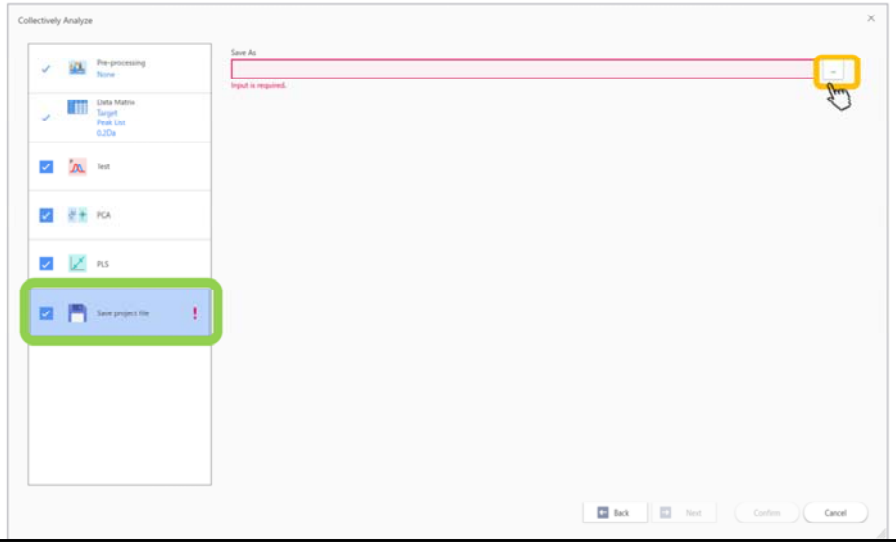
PCA


Collectively Analyze
Pre-processing
None
Data Matrix
Target
Peak List
0.2Da
Test
PCA
PLS
Save project file
Number of Principal Components
Auto
Manual
Pre-processing
Pareto Scale
Back
Next
Confirm
Cancel

PLS

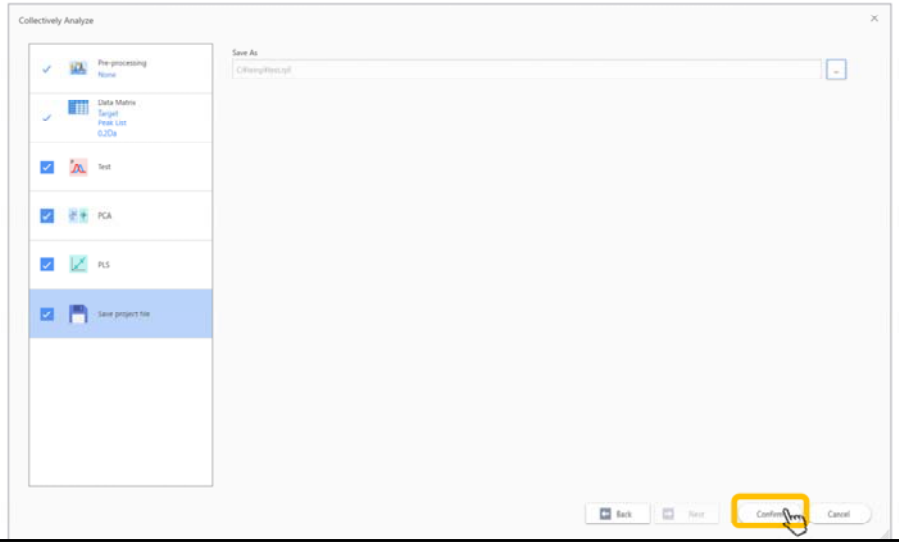

Collectively Analyze
Pre-processing
None
Data Matrix
Target
Peak List
0.2Da
Test
PCA
PLS
Save project file
Number of Latent Variables
Auto
Manual
5
Pre-processing
Pareto Scale
Import
Export
ROI List
No.
File Name
ROI Name
Attribute
Y value
1
Testicle_bAA_Pl_SL_Sx_1...
ROI001
Group A
1.00000
2
Testicle_bAA_Pl_SL_Sx_1...
ROI002
Group B
2.00000
3
Testicle_bAA_Pl_SL_Sx_1...
ROI003
Group C
3.00000
Y values must be entered to use PLS.
Back
Next
Confirm
Cancel

Saving a project file



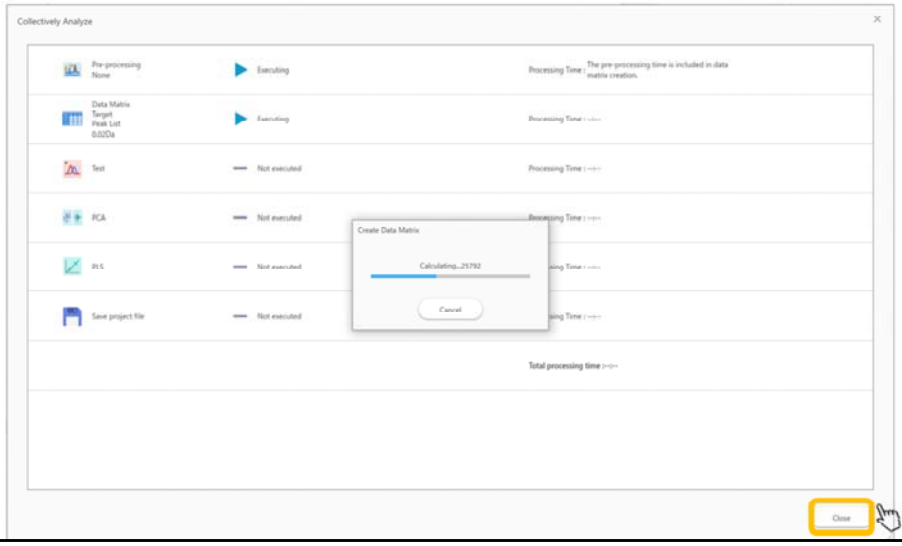
Select the folder to save the file in and type in a file name.

Once all settings are complete, click “Confirm”



A confirmation window appears

The contents to be executed are displayed



Once the process is complete, analysis results appear on the main window