

Saving the shape of the ROI

ROI settings

The screenshot displays the IMAGEREVEAL software interface. The left sidebar contains a vertical menu with the following items: File, Image Setting, ROI Setting (highlighted with a yellow box and a hand cursor), Collectively Analyze, Data Matrix, Pre-processing Setting, Pre-processing, Data Matrix Setting, Data Matrix Calculation, Differential Analysis, Test, PCA Calculation, PCA Result, and PLS Calculation. The main window is divided into several panels:

- ROI List:** A table with columns: No., Use, File Name, ROI Na..., and Attribute. It contains one row: 1, Testicle_9AA..., All, Group A.
- Data Matrix Table:** A table with columns: No., Use, Tag, Label, m/z, Formula, Adduct Ion, Matrix, and Polarity. It is currently empty.
- MS Image:** A large panel showing a color-coded mass spectrum image. It includes a 'Display' dropdown, a color scale bar, and a 'Copy Information' button. The right sidebar of this panel shows: Compound Name/Comment: TIC, File Name: Testicle_9AA_PL_SL_5x_1_AREA01.i, Type: TIC.
- Graph:** A panel with tabs for 'Spectrum' and 'Box Plot'. The 'Spectrum' tab is active, showing a mass spectrum plot titled 'Testicle_9AA_PL_SL_5x_1_AREA01.i Whole_Ave.' with peaks labeled at m/z 721.48186, 767.49182, 795.52545, 796.52363, 797.52374, 837.53900, and 885.53782. The y-axis is 'Intensity' (0E+00 to 2E+06) and the x-axis is 'm/z' (700 to 900).
- MS Image List:** A panel with a 'Add MS Image' button, a color scale bar, and a 'm/z Search' button. It shows a list of MS images with a 'TIC' image selected.

The 'Analysis Parameters' panel at the bottom left shows 'Normalization Not Calculated' and a table with columns: No., Name, and Value.

ROI settings

ROI Setting

IMDX File: Testicle_9AA_PL_SL_5x_1_AREA01.imdx

Reference Image: ... Reference Image 1

Reference Image Setting

Brightness: [Slider]

Contrast: [Slider]

MS Image Setting

File: [Dropdown]

MS Image: TIC [Dropdown]

ROI List

No.	Use	File Name	ROI Name	Attribute	Date
1	☐	Testicle_9AA_PL_SL_5x_1...	All	Group A	[Dropdown]

MS Image: [Slider]

ROI Display Setting: Transparency [Slider] Label ☒ Display

It is possible to select a region of interest as a rectangle, circle or polygon.

OK Cancel

Click the “export” button

ROI Setting

IMDX File: Testicle_9AA_P1_SL_5x_1_AREA01.imdx

Reference Image: ... Reference Image 1

MS REF

Import Export

ROI002 ROI003 ROI001

250 μm

MS Image

ROI Display Setting

Transparency

Label ☒ Display

☒ Reference Image Setting

Brightness

Contrast

Transparency

Smoothing Filter: None

☒ MS Image Setting

File

MS Image: TIC

ROI List

Attribute Setting

No.	Use	File Name	ROI Name	Attribute	Dat
1	☐	Testicle_9AA_P1_SL_5x_1...	All	Group A	
2	☒	Testicle_9AA_P1_SL_5x_1...	ROI001	Group A	
3	☒	Testicle_9AA_P1_SL_5x_1...	ROI002	Group A	
4	☒	Testicle_9AA_P1_SL_5x_1...	ROI003	Group A	

OK Cancel

Name and save the file (.rois)



