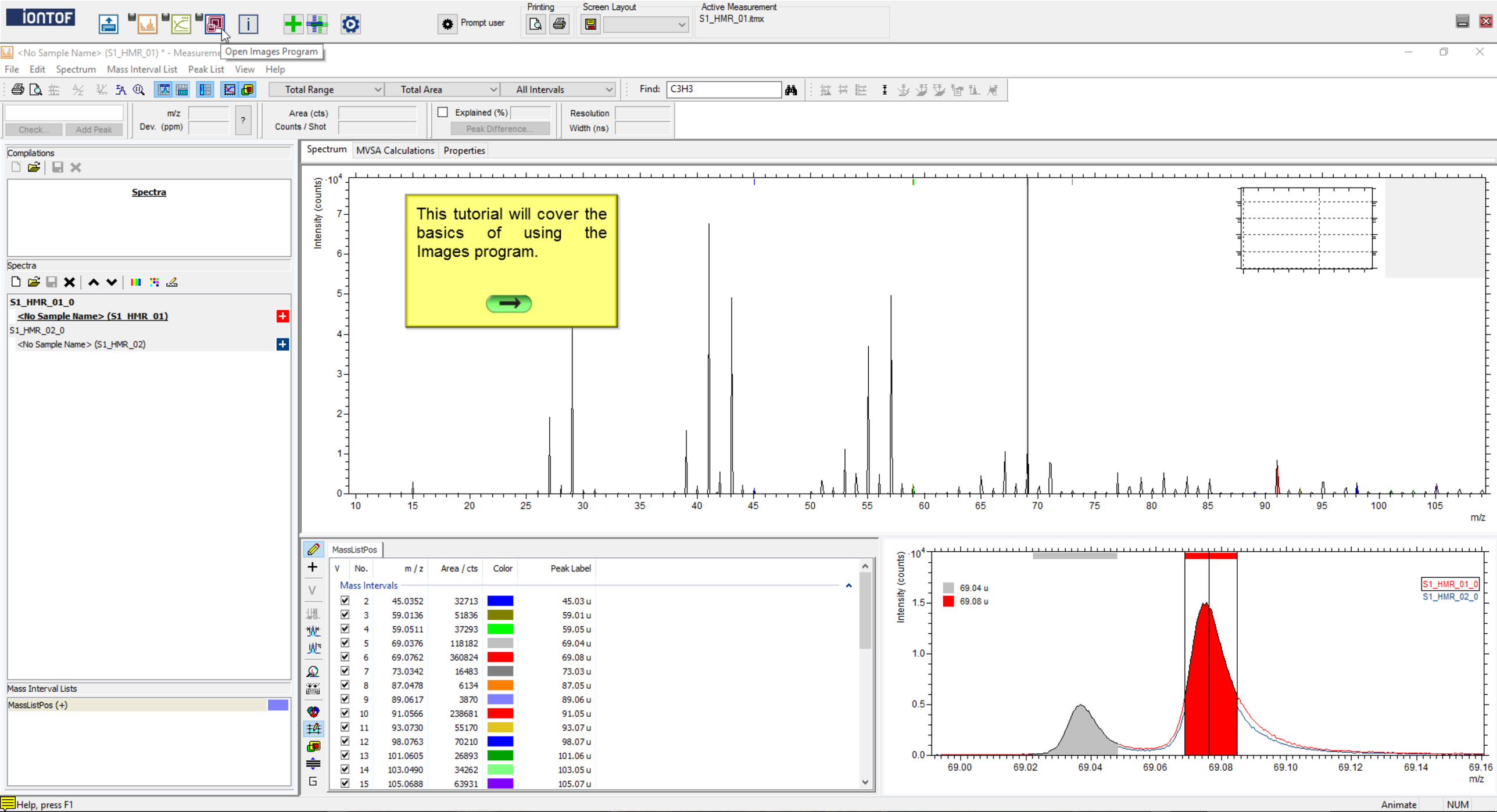
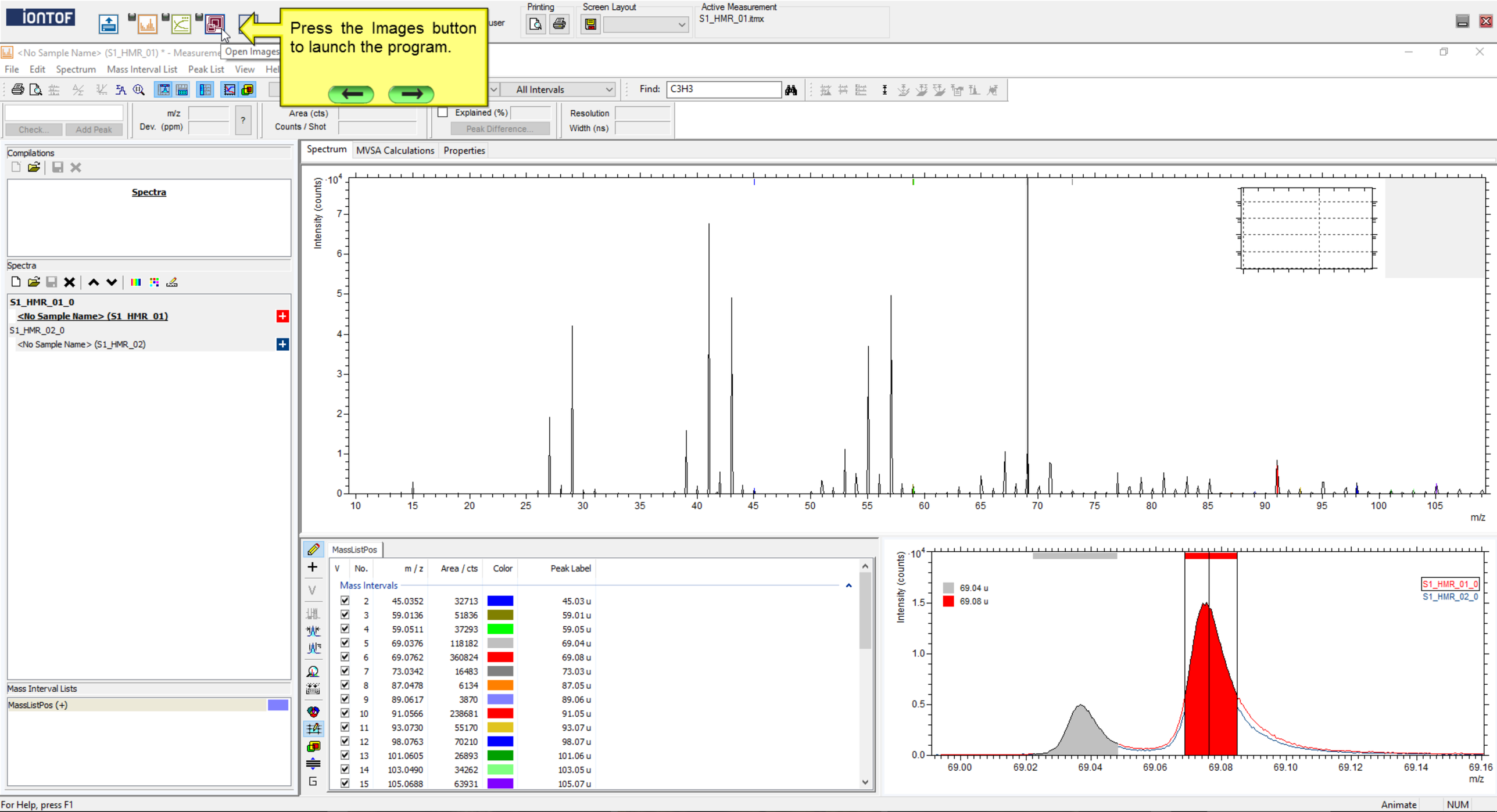
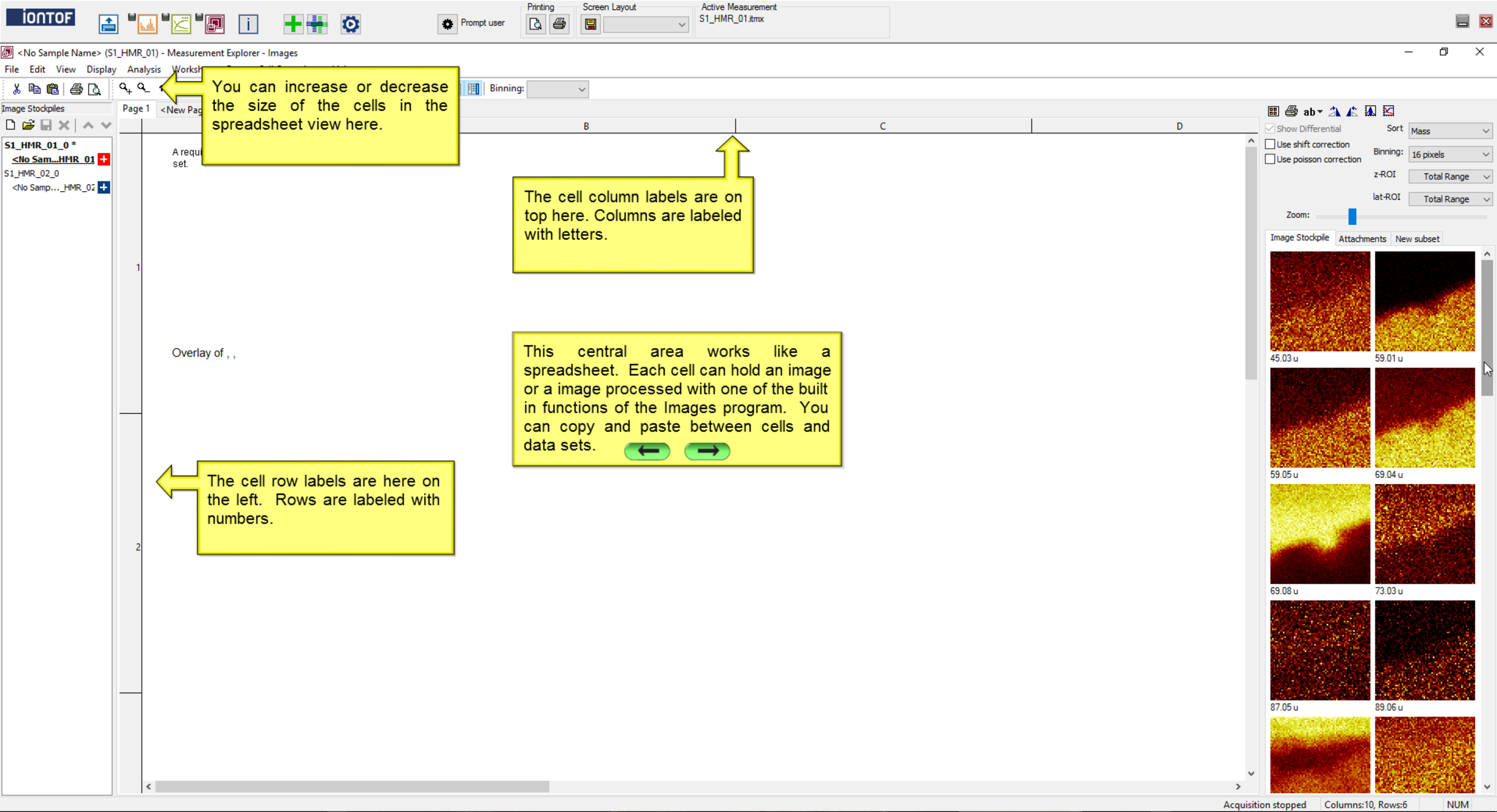

Open Images Program
Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) * - Measureme
File Edit Spectrum Mass Interval List Peak List View Help
Total Range
Total Area
All Intervals
Find: C3H3
Check... Add Peak
m/z
Dev. (ppm)
Area (cts)
Counts / Shot
Explained (%)
Peak Difference...
Resolution
Width (ns)
Compilations
Spectra
Spectra
S1_HMR_01_0
<No Sample Name> (S1_HMR_01)
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Mass Interval Lists
MassListPos (+)
Spectrum
MVSA Calculations
Properties
This tutorial will cover the basics of using the Images program.
Intensity (counts)
m/z
MassListPos
V No. m / z Area / cts Color Peak Label
Mass Intervals
2 45.0352 32713 45.03 u
3 59.0136 51836 59.01 u
4 59.0511 37293 59.05 u
5 69.0376 118182 69.04 u
6 69.0762 360824 69.08 u
7 73.0342 16483 73.03 u
8 87.0478 6134 87.05 u
9 89.0617 3870 89.06 u
10 91.0566 238681 91.05 u
11 93.0730 55170 93.07 u
12 98.0763 70210 98.07 u
13 101.0605 26893 101.06 u
14 103.0490 34262 103.05 u
15 105.0688 63931 105.07 u
69.04 u
69.08 u
S1_HMR_01_0
S1_HMR_02_0
Help, press F1
Animate
NUM


Press the Images button to launch the program.
Open Images
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
File Edit Spectrum Mass Interval List Peak List View
All Intervals
Find: C3H3
Check... Add Peak
m/z
Dev. (ppm)
Area (cts)
Counts / Shot
Explained (%)
Peak Difference...
Resolution
Width (ns)
Compilations
Spectra
Spectra
S1_HMR_01_0
<No Sample Name> (S1_HMR_01)
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Mass Interval Lists
MassListPos (+)
Spectrum
MVSA Calculations
Properties
Intensity (counts)
m/z
MassListPos
V No. m / z Area / cts Color Peak Label
Mass Intervals
2 45.0352 32713 45.03 u
3 59.0136 51836 59.01 u
4 59.0511 37293 59.05 u
5 69.0376 118182 69.04 u
6 69.0762 360824 69.08 u
7 73.0342 16483 73.03 u
8 87.0478 6134 87.05 u
9 89.0617 3870 89.06 u
10 91.0566 238681 91.05 u
11 93.0730 55170 93.07 u
12 98.0763 70210 98.07 u
13 101.0605 26893 101.06 u
14 103.0490 34262 103.05 u
15 105.0688 63931 105.07 u
69.04 u
69.08 u
S1_HMR_01_0
S1_HMR_02_0
For Help, press F1
Animate
NUM


Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Pag
B
C
D
1
2
A requ
set.
Overlay of , ,
You can increase or decrease the size of the cells in the spreadsheet view here.
The cell column labels are on top here. Columns are labeled with letters.
This central area works like a spreadsheet. Each cell can hold an image or a image processed with one of the built in functions of the Images program. You can copy and paste between cells and data sets.
The cell row labels are here on the left. Rows are labeled with numbers.
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
16 pixels
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Acquisition stopped
Columns:10, Rows:6
NUM

<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images

File Edit View Display Analysis Worksheet Page Cell Operations Help

Binning:

Image Stockpiles

S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02

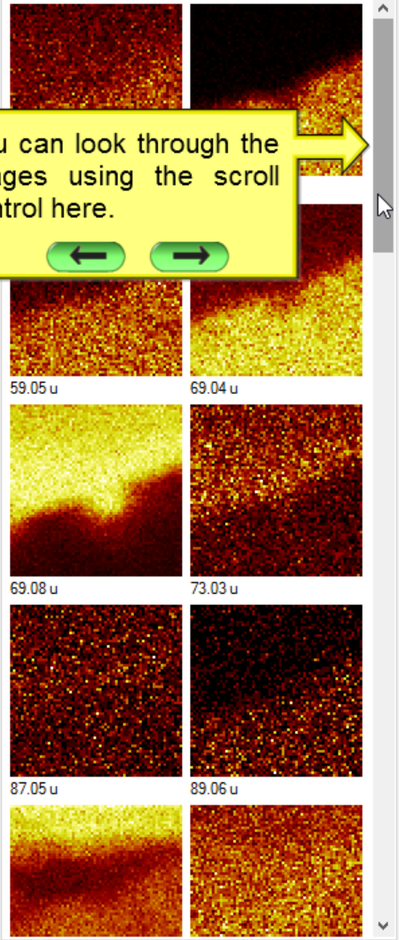
Page 1 | <New Page> | MVSA Calculations | Properties

	A	B	C	D
1	A required image stockpile reference is not set.			
2	Overlay of , ,			

Show Differential
Use shift correction
Use poisson correction

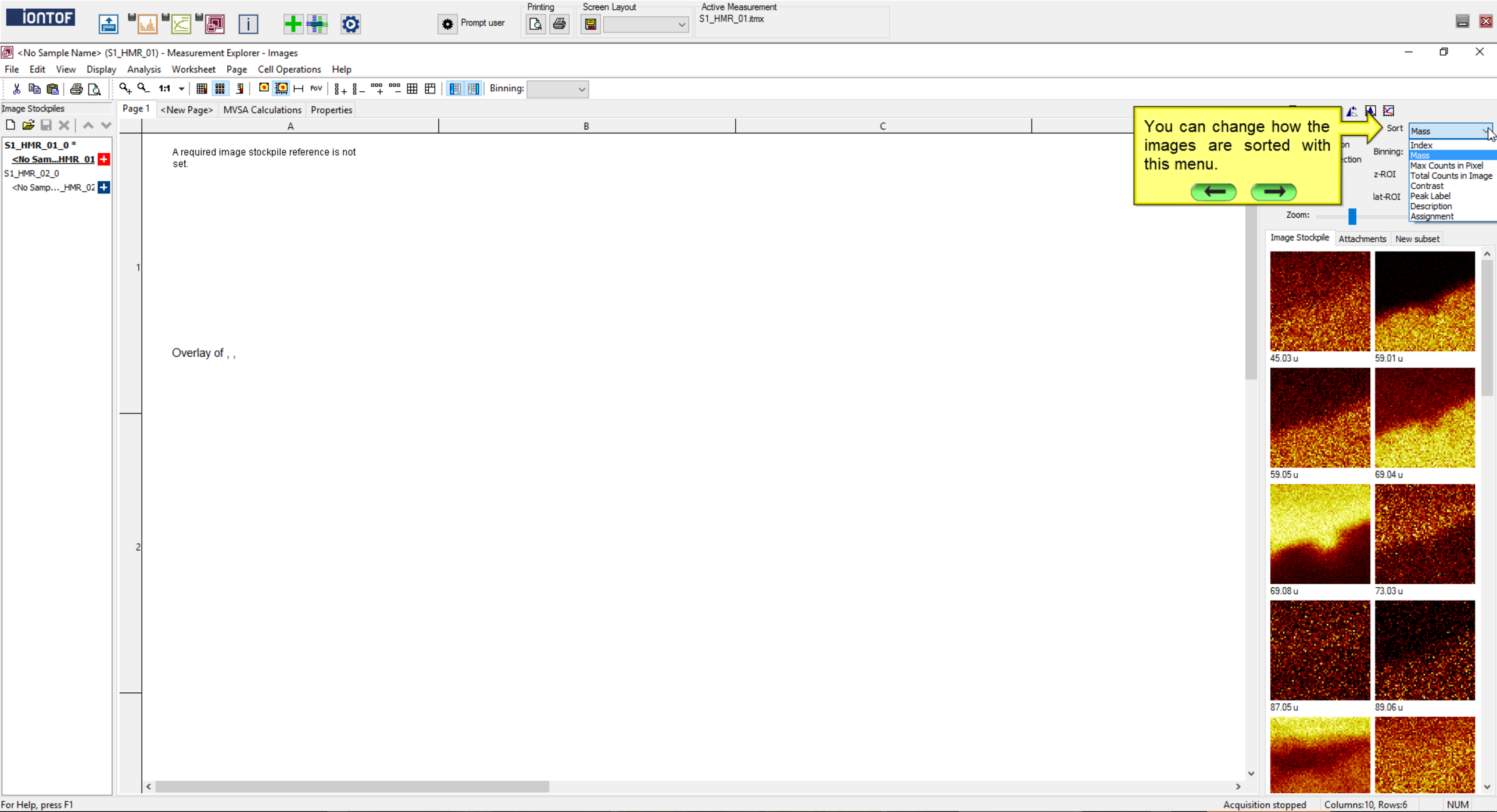
Sort: Mass
Binning: 16 pixels
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

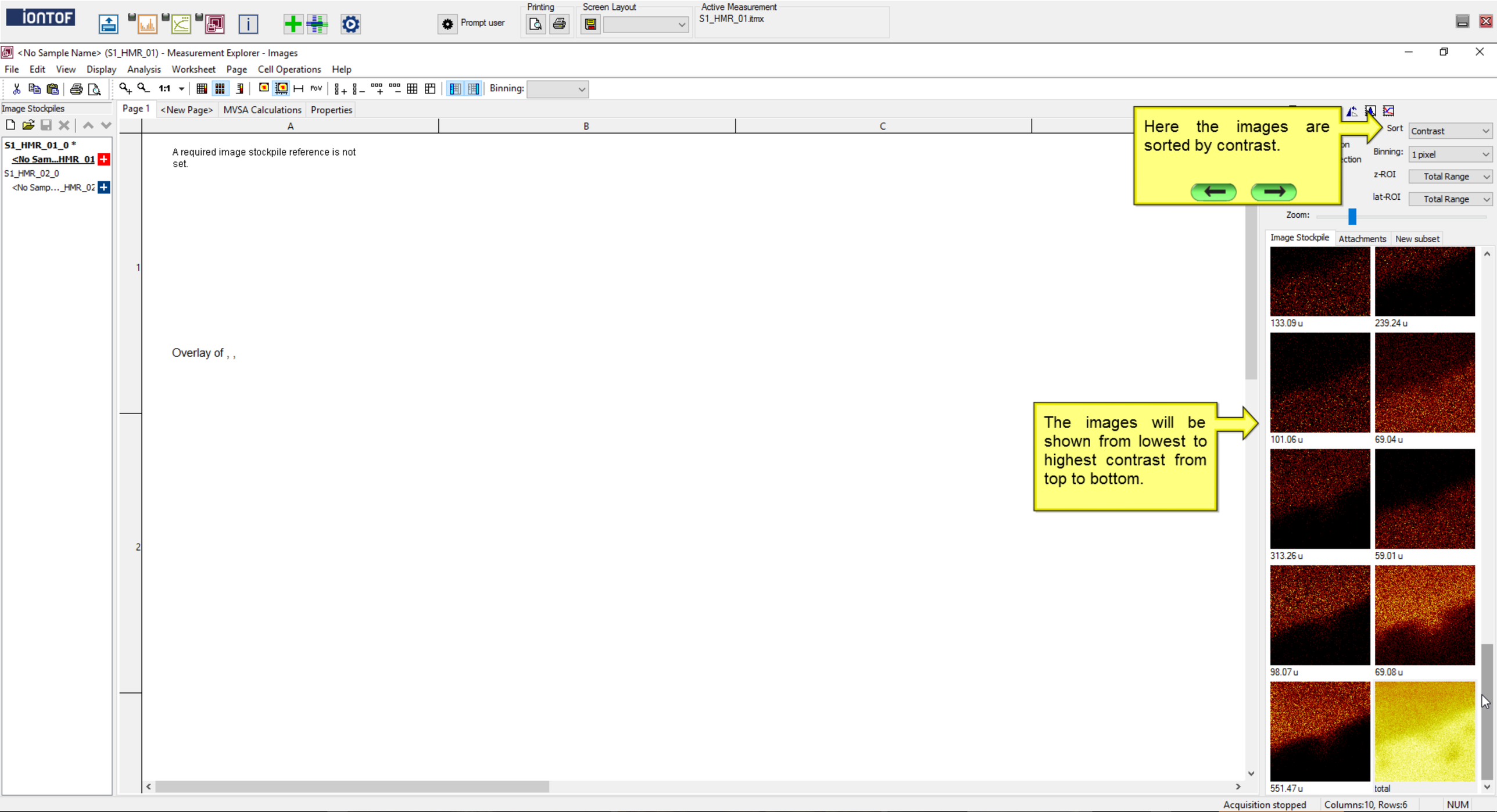
Image Stockpile | Attachments | New subset

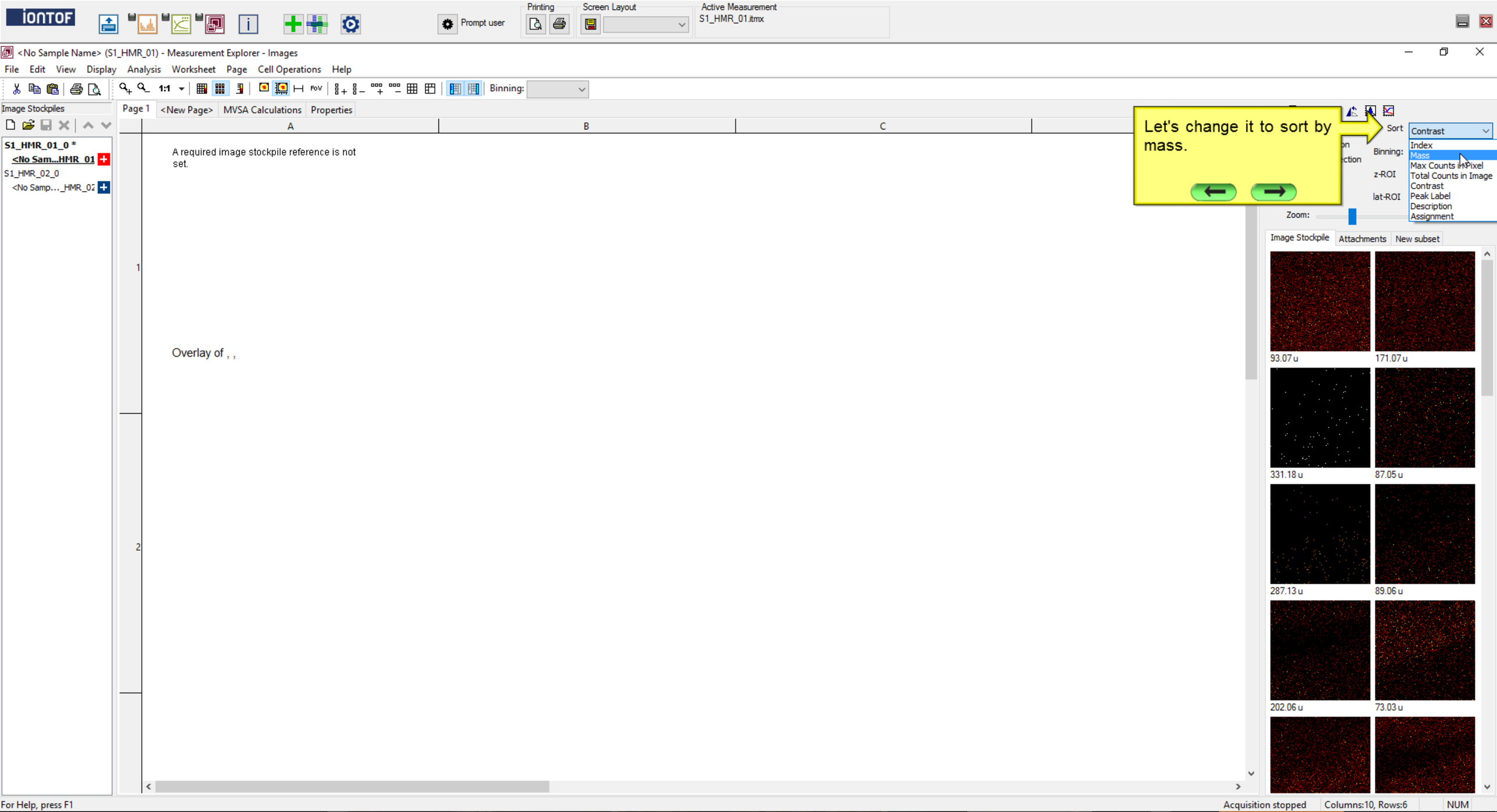


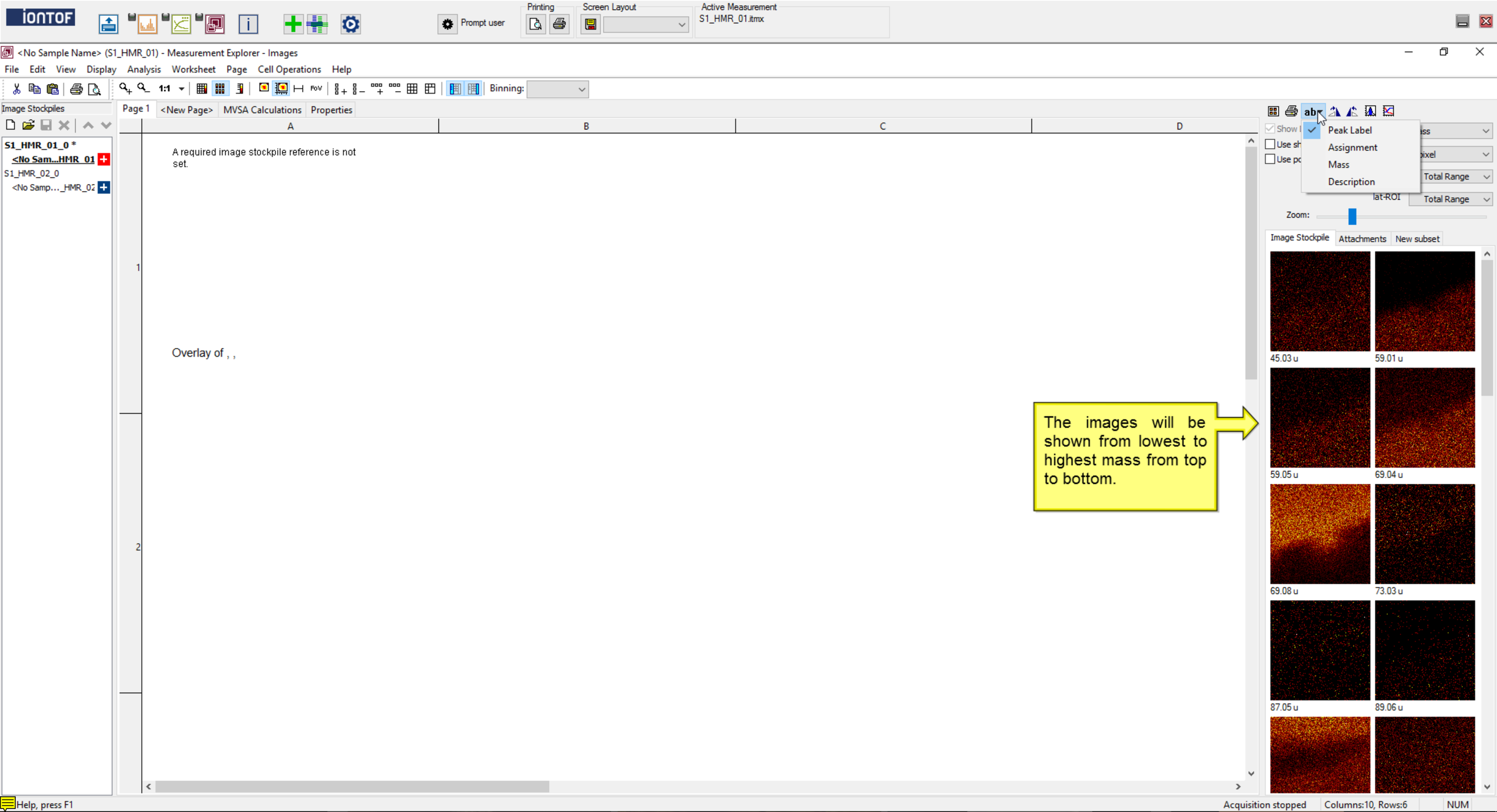
You can look through the images using the scroll control here.

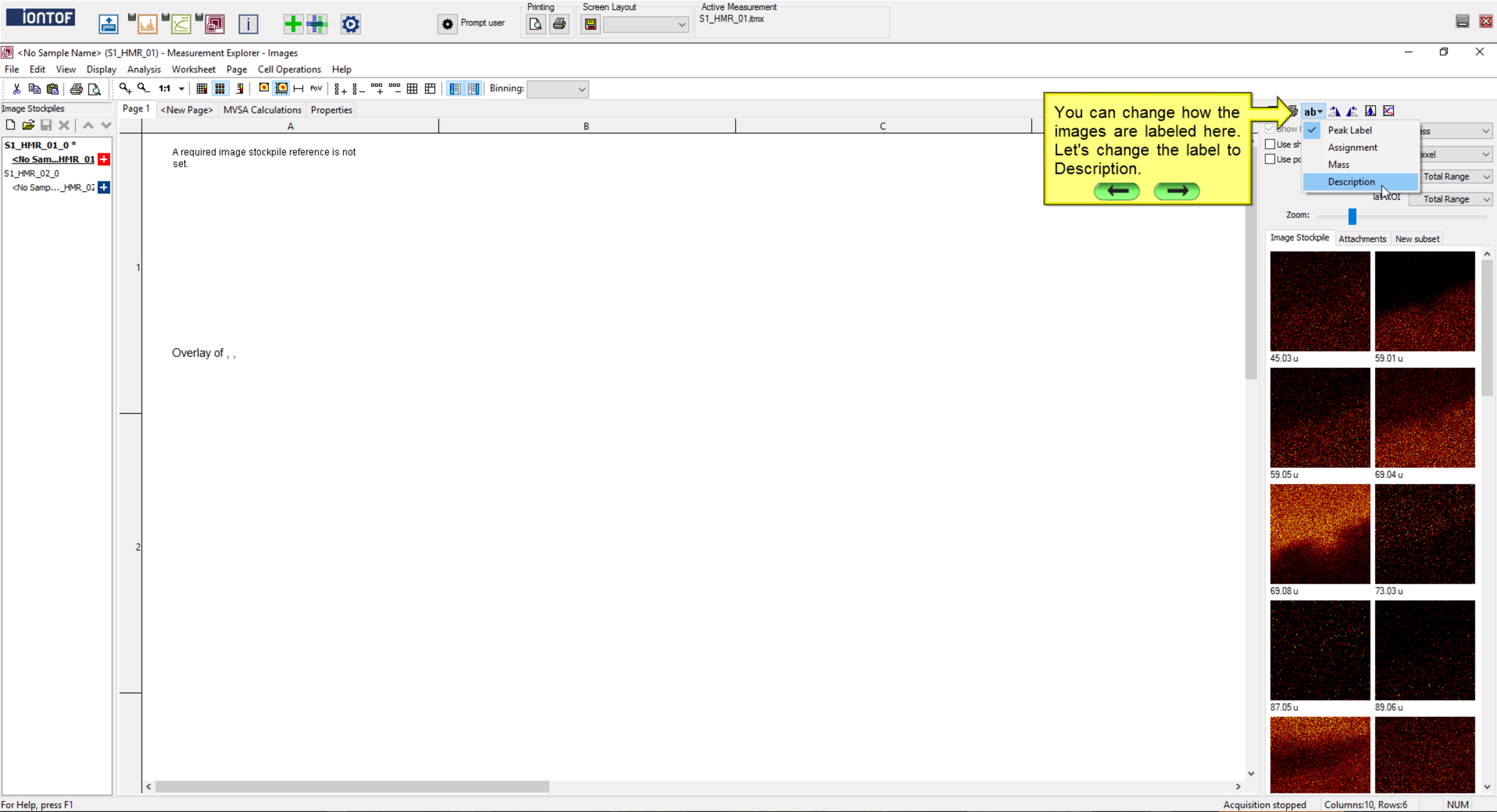
Acquisition stopped | Columns:10, Rows:6 | NUM

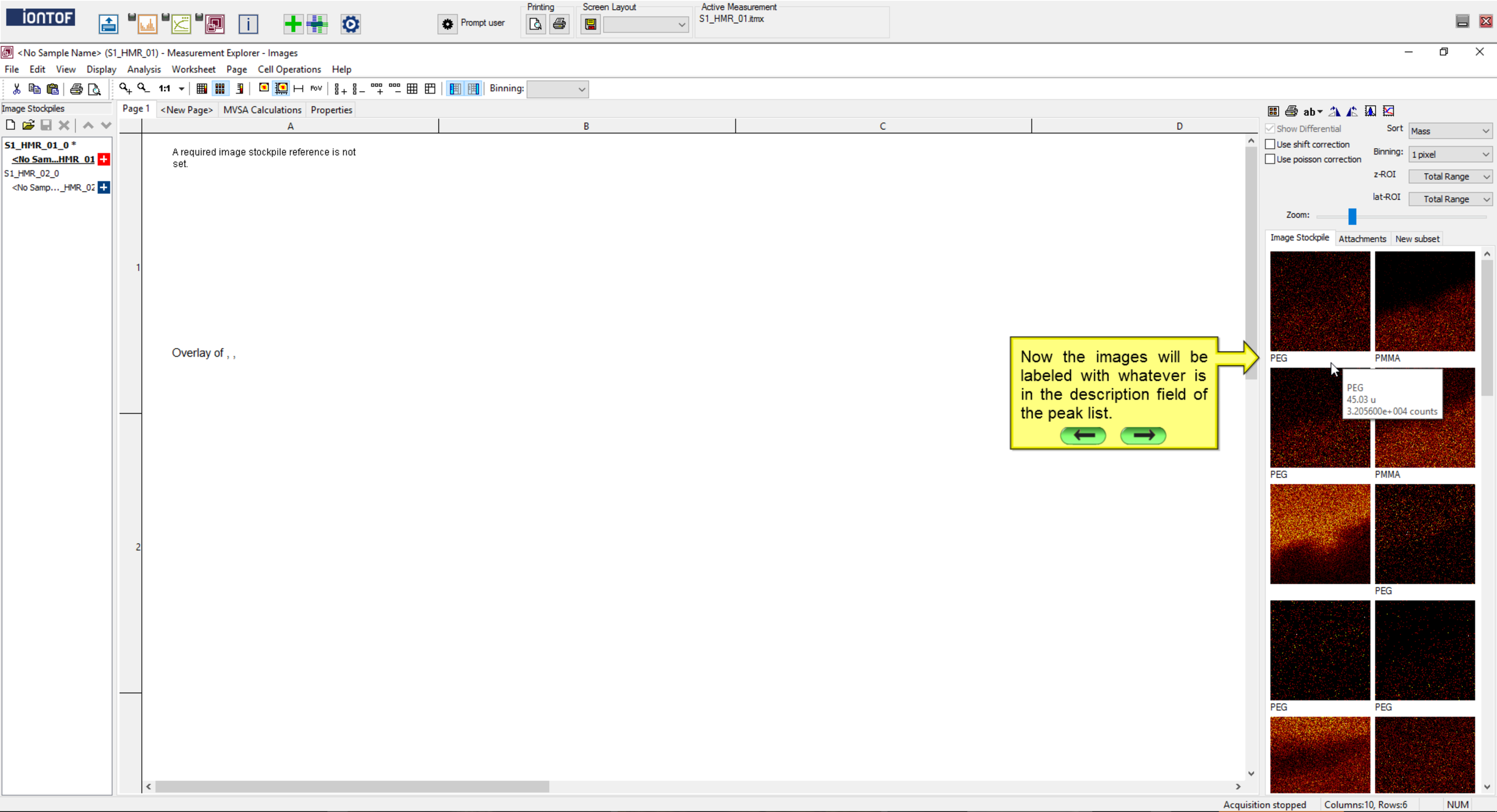

Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
A required image stockpile reference is not set.
Overlay of , ,
You can change how the images are sorted with this menu.
Sort
Mass
Index
Mass
Max Counts in Pixel
Total Counts in Image
Contrast
Peak Label
Description
Assignment
Binning:
z-ROI
lat-ROI
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

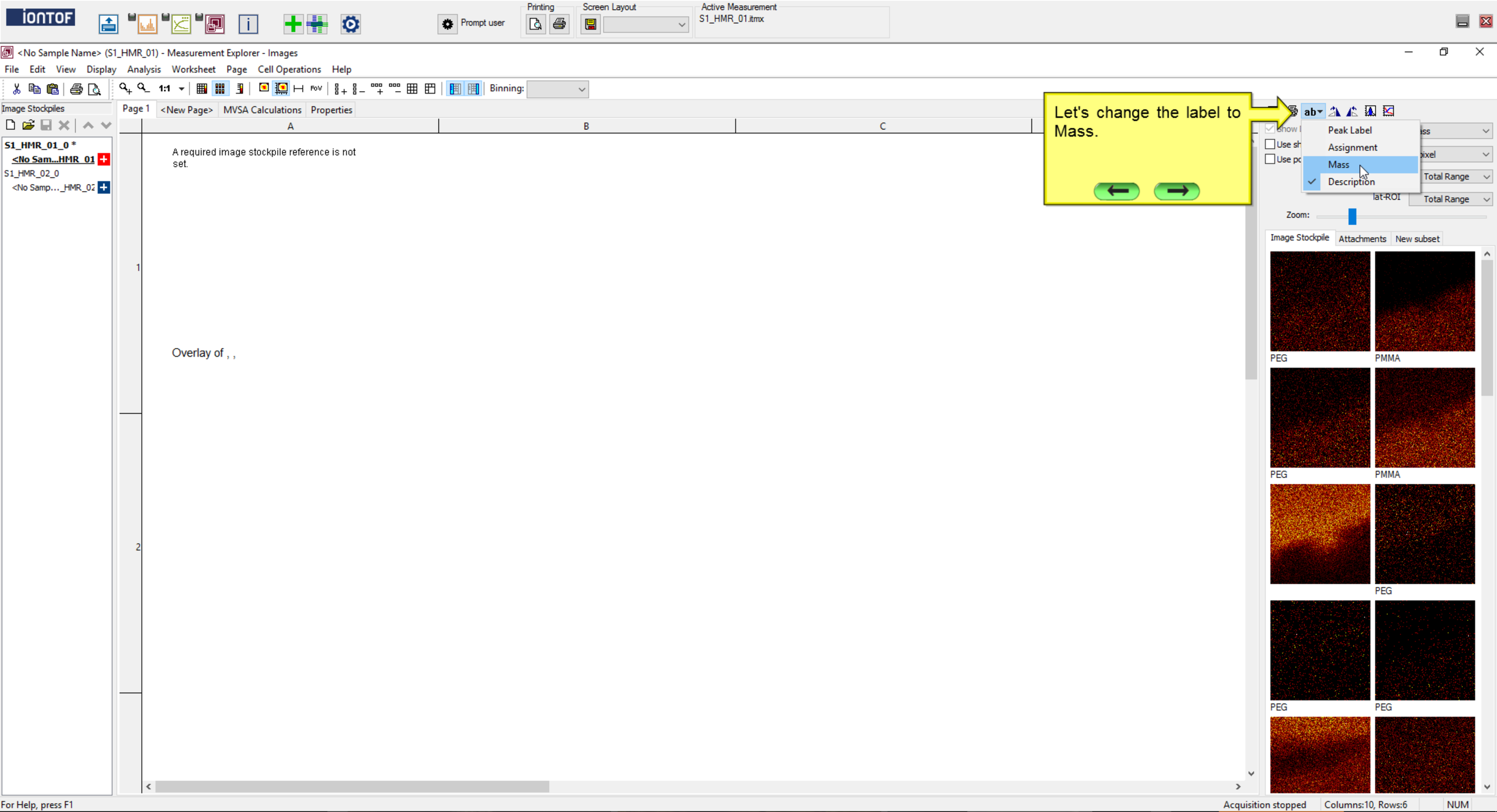

Here the images are sorted by contrast.
The images will be shown from lowest to highest contrast from top to bottom.
A required image stockpile reference is not set.
Overlay of , ,
Sort
Contrast
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
133.09 u
239.24 u
101.06 u
69.04 u
313.26 u
59.01 u
98.07 u
69.08 u
551.47 u
total

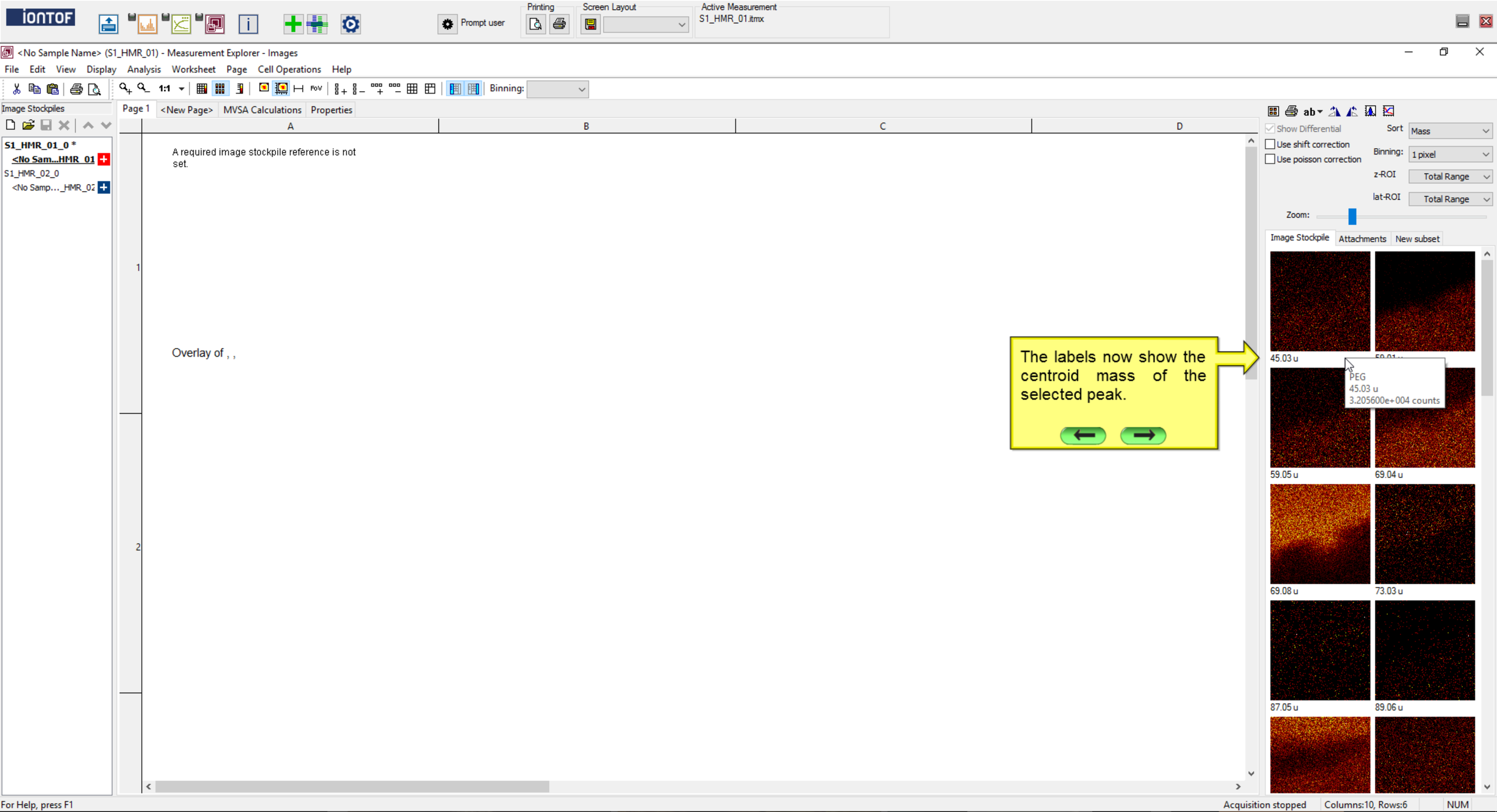

Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
A required image stockpile reference is not set.
Overlay of , ,
Let's change it to sort by mass.
Sort
Contrast
Index
Mass
Max Counts in Pixel
Total Counts in Image
Contrast
Peak Label
Description
Assignment
Binning:
z-ROI
lat-ROI
Zoom:
Image Stockpile
Attachments
New subset
93.07 u
171.07 u
331.18 u
87.05 u
287.13 u
89.06 u
202.06 u
73.03 u
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

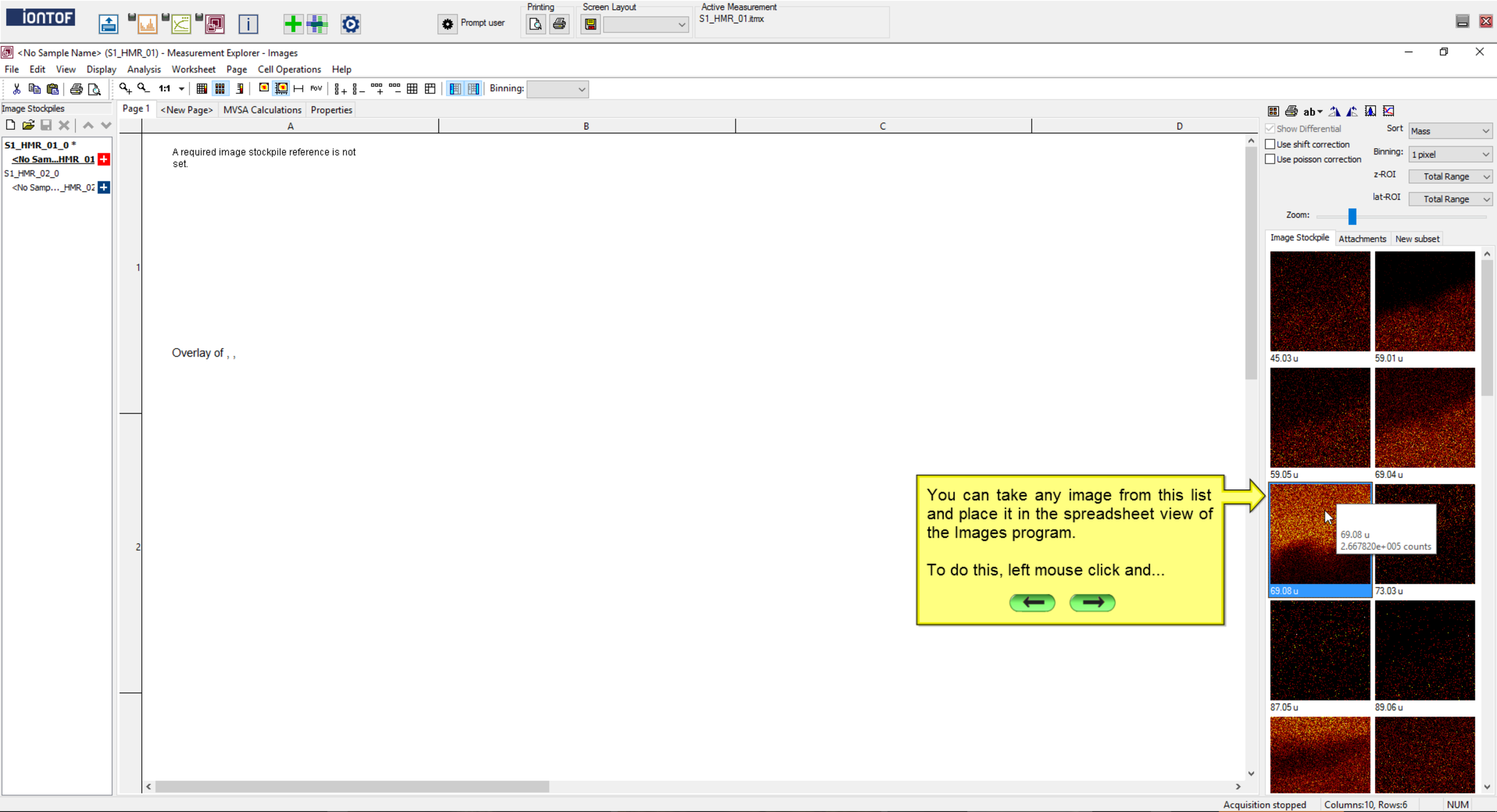

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
A required image stockpile reference is not set.
Overlay of , ,
Peak Label
Assignment
Mass
Description
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
The images will be shown from lowest to highest mass from top to bottom.
Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

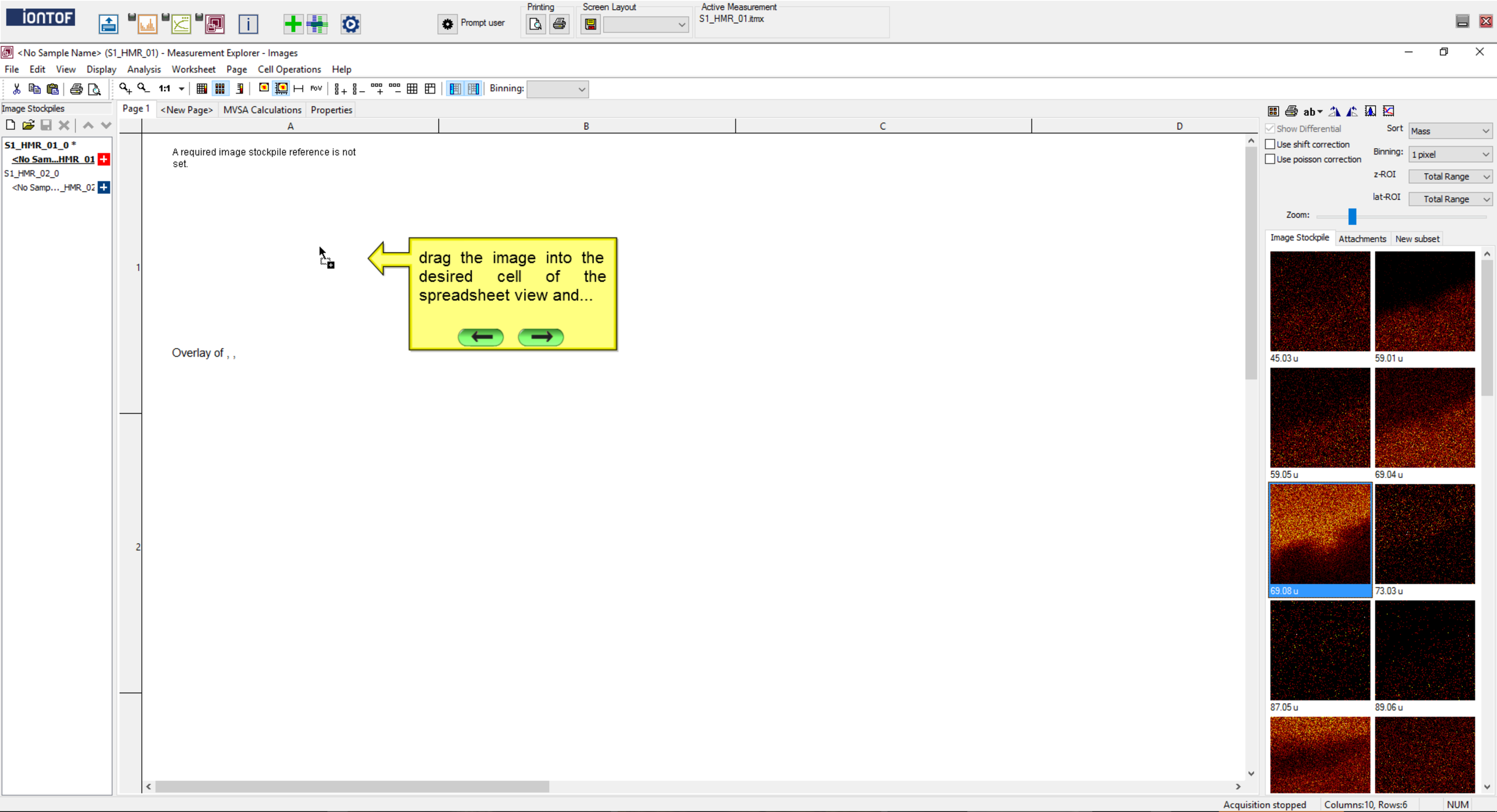

Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
A required image stockpile reference is not set.
Overlay of , ,
You can change how the images are labeled here. Let's change the label to Description.
Peak Label
Assignment
Mass
Description
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM


Printing
Prompt user
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
A required image stockpile reference is not set.
Overlay of , ,
Now the images will be labeled with whatever is in the description field of the peak list.
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
PEG
PMMA
PEG
45.03 u
3.205600e+004 counts
PEG
PMMA
PEG
PEG
PEG
Acquisition stopped
Columns:10, Rows:6
NUM


Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
A required image stockpile reference is not set.
Overlay of , ,
Let's change the label to Mass.
Peak Label
Assignment
Mass
Description
Total Range
Zoom:
Image Stockpile
Attachments
New subset
PEG
PMMA
PEG
PMMA
PEG
PEG
PEG
PEG
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM


Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
A required image stockpile reference is not set.
Overlay of , ,
The labels now show the centroid mass of the selected peak.
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
PEG
45.03 u
3.205600e+004 counts
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM


Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
A required image stockpile reference is not set.
Overlay of , ,
1
2
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
69.08 u
2.667820e+005 counts
You can take any image from this list and place it in the spreadsheet view of the Images program.
To do this, left mouse click and...
Acquisition stopped
Columns:10, Rows:6
NUM


Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
A required image stockpile reference is not set.
drag the image into the desired cell of the spreadsheet view and...
Overlay of , ,
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Acquisition stopped
Columns:10, Rows:6
NUM

<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images

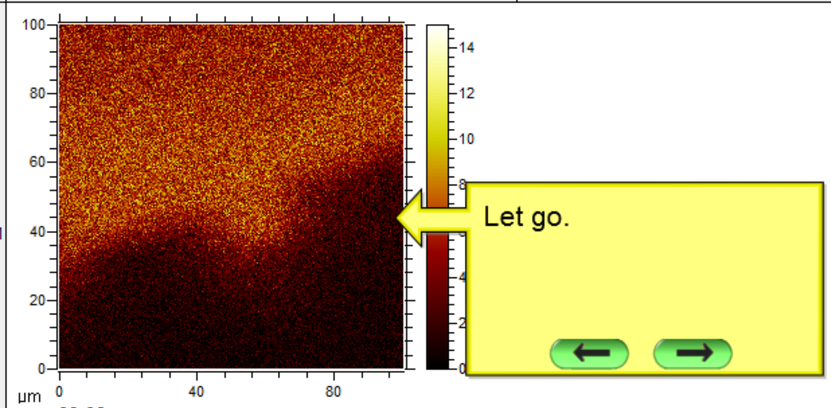
File Edit View Display Analysis Worksheet Page Cell Operations Help

Binning:

Image Stockpiles

S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02

Page 1 <New Page> MVSA Calculations Properties

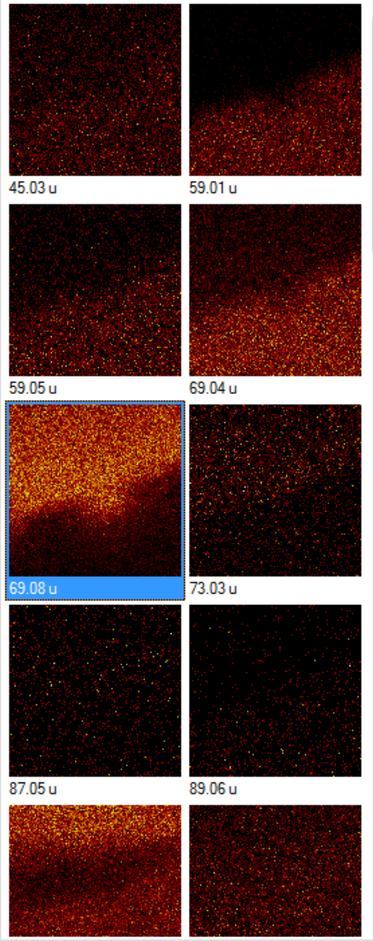


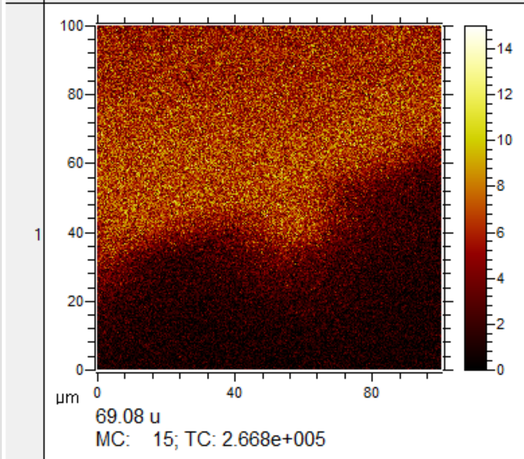
Let go.

69.08 u
MC: 15; TC: 2.668e+005

Show Differential
Use shift correction
Use poisson correction
Sort Mass
Binning: 1 pixel
z-ROI Total Range
lat-ROI Total Range
Zoom:

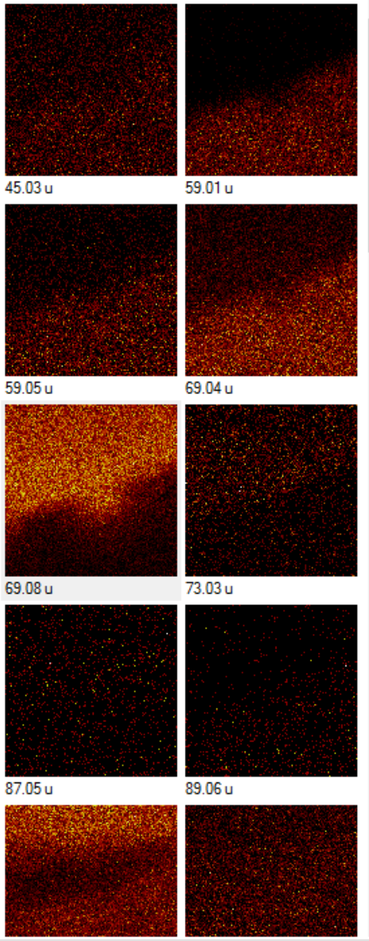
Image Stockpile Attachments New subset




100
80
60
40
20
0
0
40
80
µm
14
12
10
8
6
4
2
0
69.08 u
MC: 15; TC: 2.668e+005

Cut Ctrl+X
Copy Ctrl+C
Copy Only Image
Paste Ctrl+V
Select All Ctrl+A
Delete Topmost Operation(s)
Delete Del
Unify Selected Cells
Split Unified Cells
Crop
Cyclic Shift
Filter
RGB Overlay
Overlay
Histogram
Linescan
Addition
Normalize
Scatterplot
Ternary Diagram
Image File
Offset
Flood Level
3-Points Plane Fit
Apply ROI
Linescan Editor...
Measure Feature...
Roughness Analysis...
ROI Editor...
View Carpet Plot...
Export...
Properties Enter


If you right click in any cell you can access a list of available functions.


45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u

<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images

File Edit View Display Analysis Worksheet Page Cell Operations Help

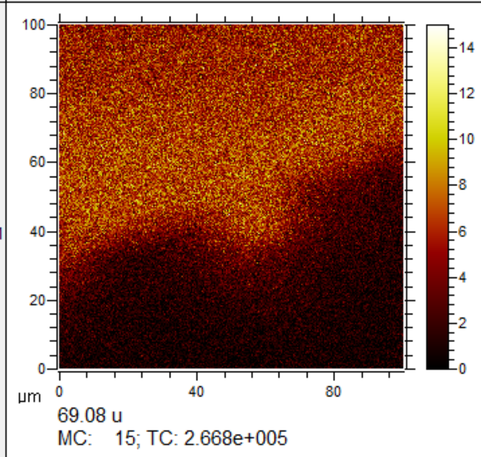
Prompt user | Printing | Screen Layout | Active Measurement: S1_HMR_01.itmx

Binning:

Image Stockpiles

S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02

Page 1 | <New Page> | MVSA Calculations | Properties

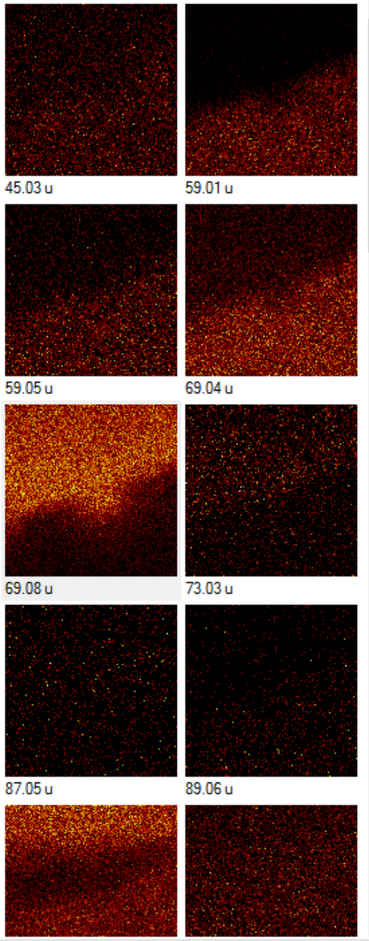


Cut Ctrl+X
Copy Ctrl+C
Copy Only Image
Paste Ctrl+V
Select All Ctrl+A
Delete Topmost Operation(s)
Delete Del
Unify Selected Cells
Split Unified Cells
Crop
Cyclic Shift
Filter
RGB Overlay
Overlay
Histogram
Linescan
Addition
Normalize
Scatterplot
Ternary Diagram
Image File
Offset
Flood Level
3-Points Plane Fit
Apply ROI
Linescan Editor...
Measure Feature...
Roughness Analysis...
ROI Editor...
View Carpet Plot...
Export...
Properties Enter

Let's create an RGB overlay by selecting 'RGB Overlay' from the right click menu.

Show Differential
Use shift correction
Use poisson correction
Sort: Mass
Binning: 1 pixel
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

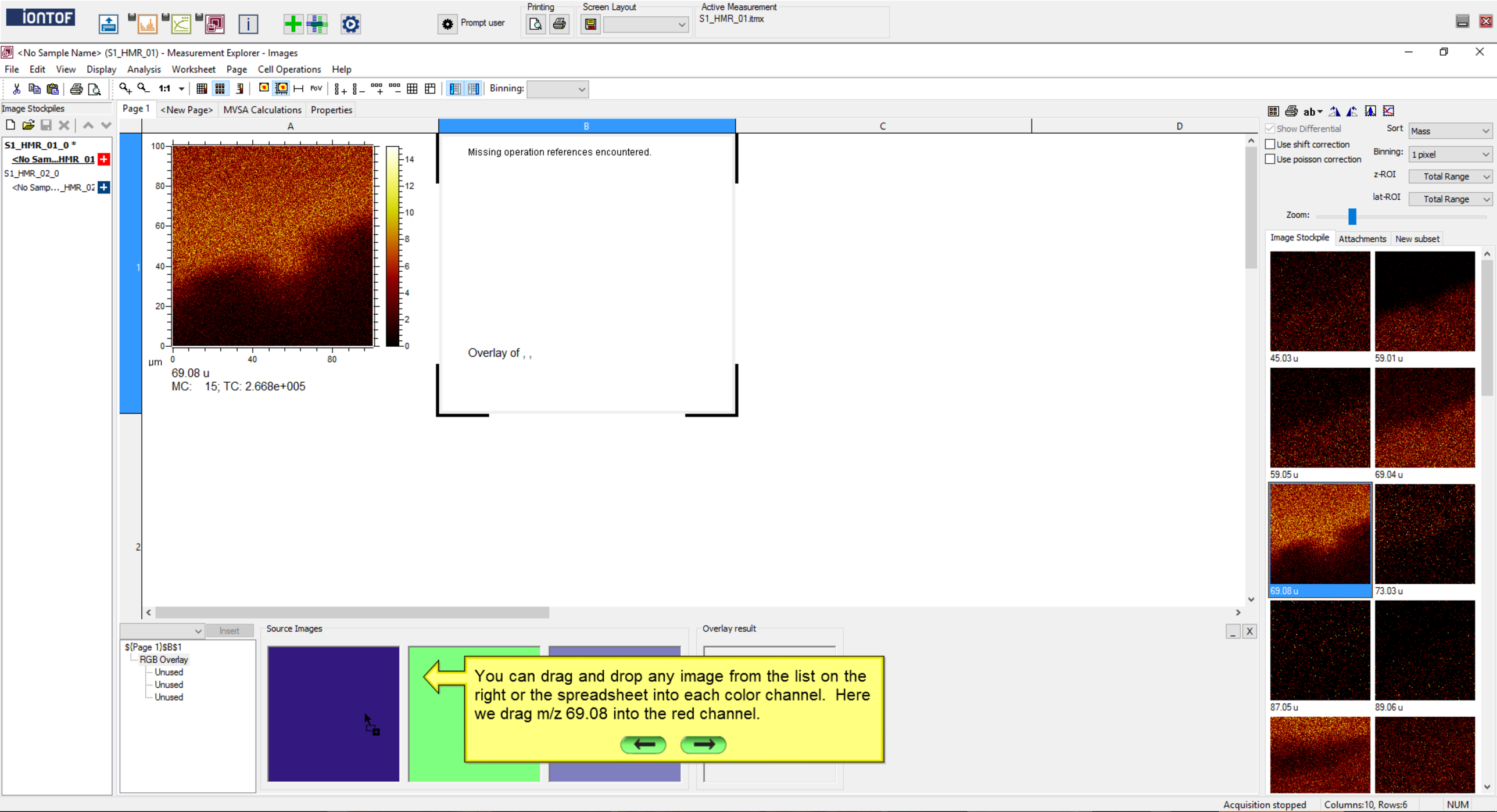
Image Stockpile | Attachments | New subset

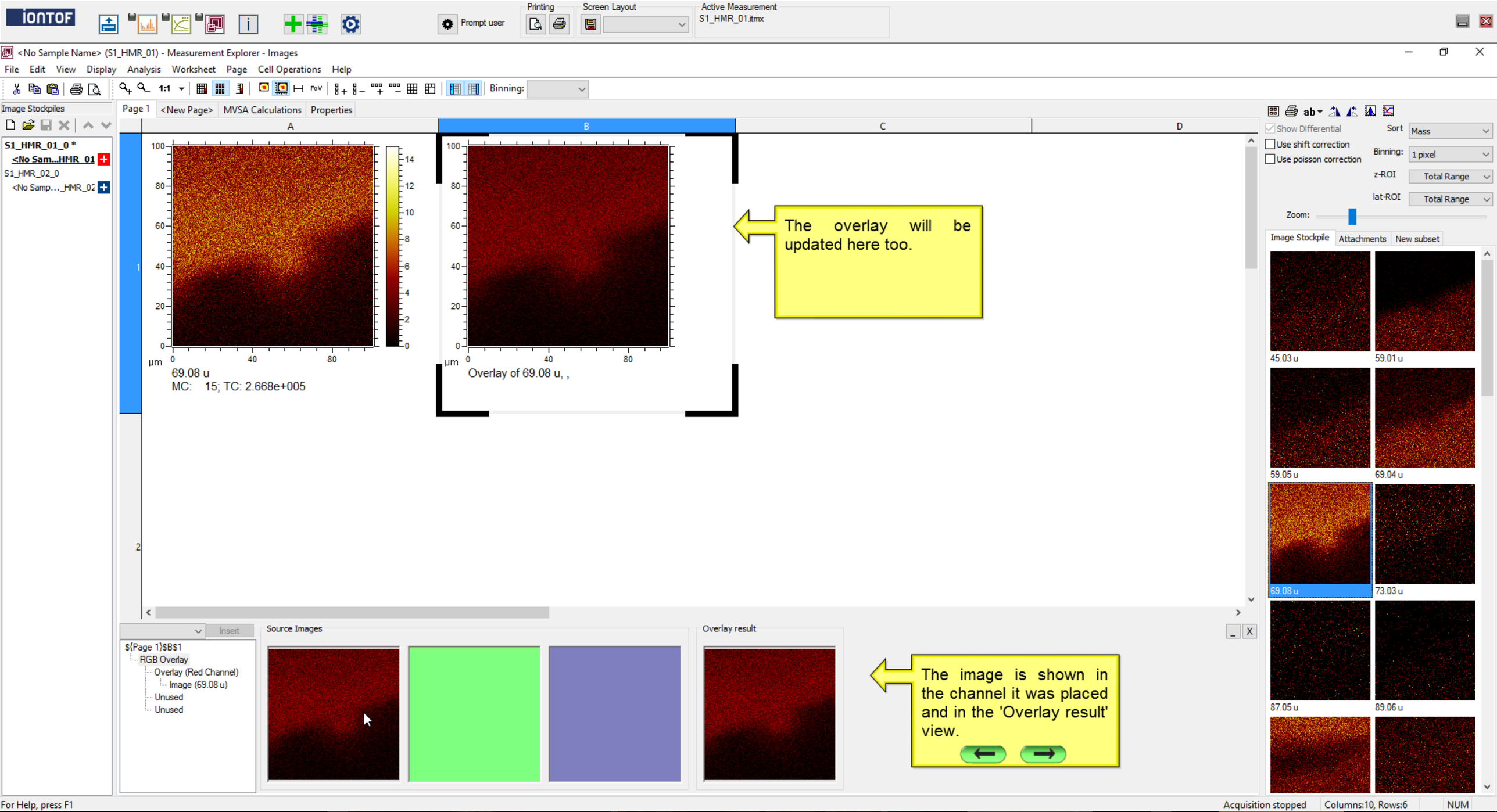


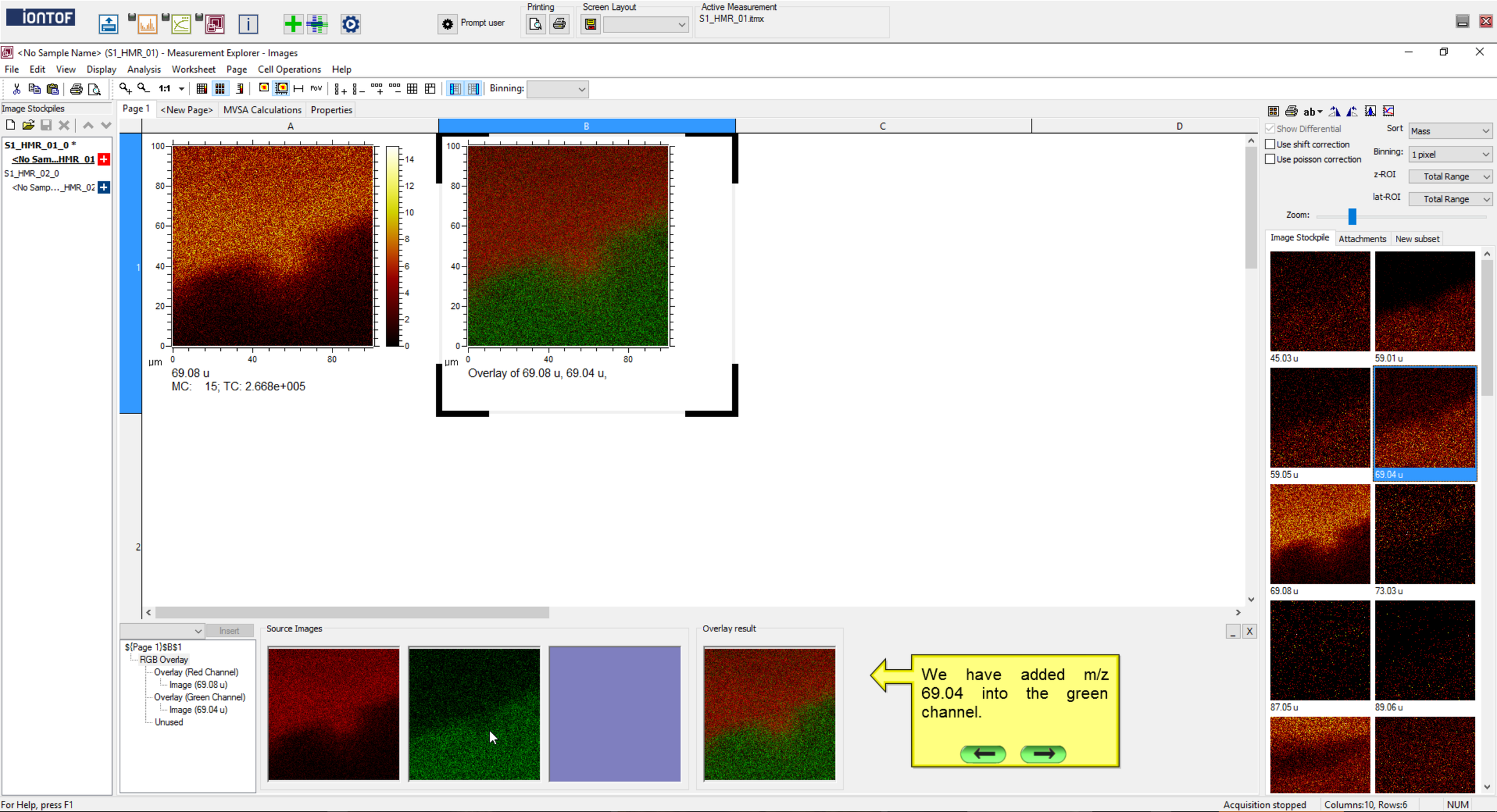
For Help, press F1

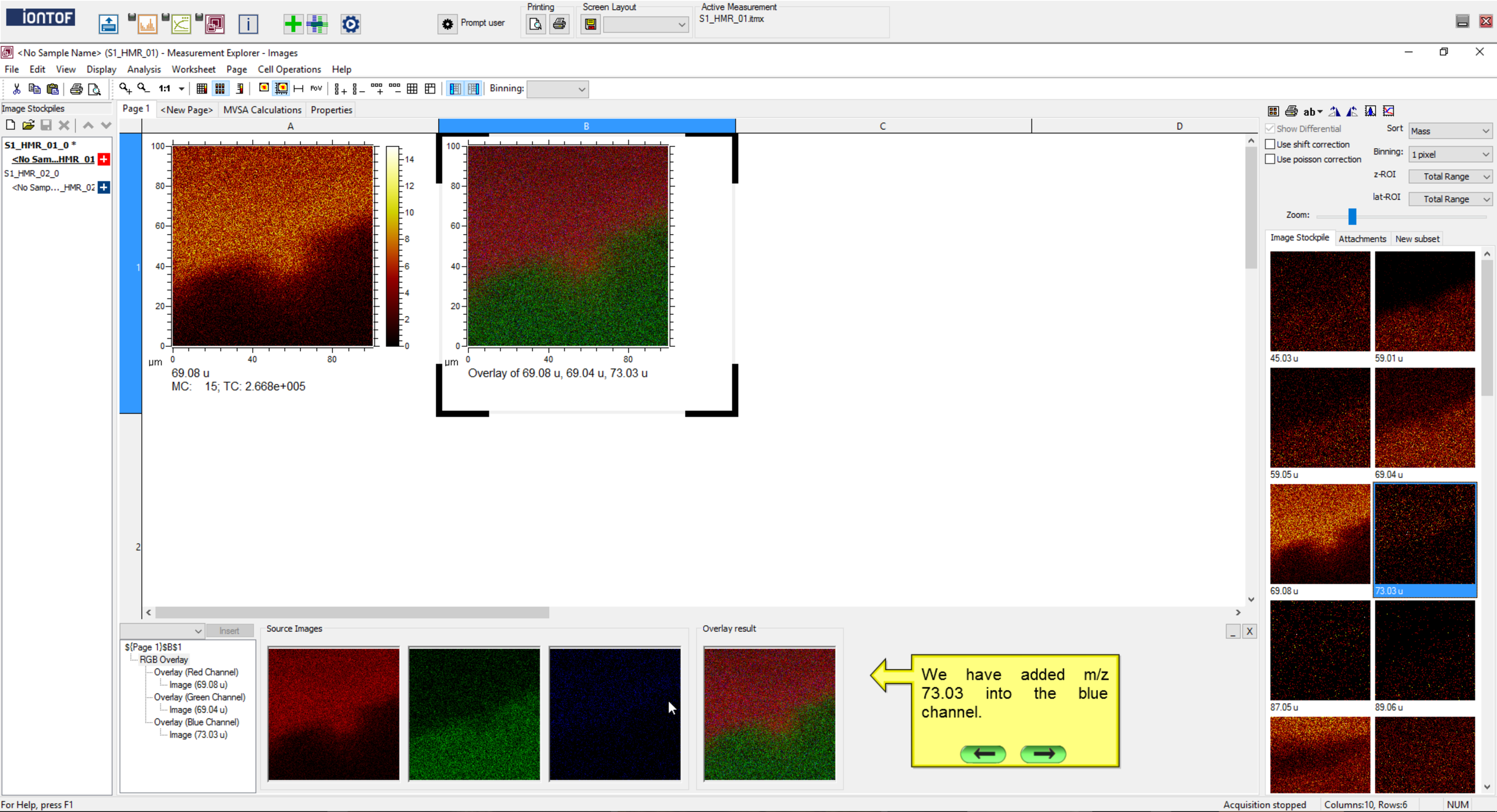
Acquisition stopped | Columns:10, Rows:6 | NUM

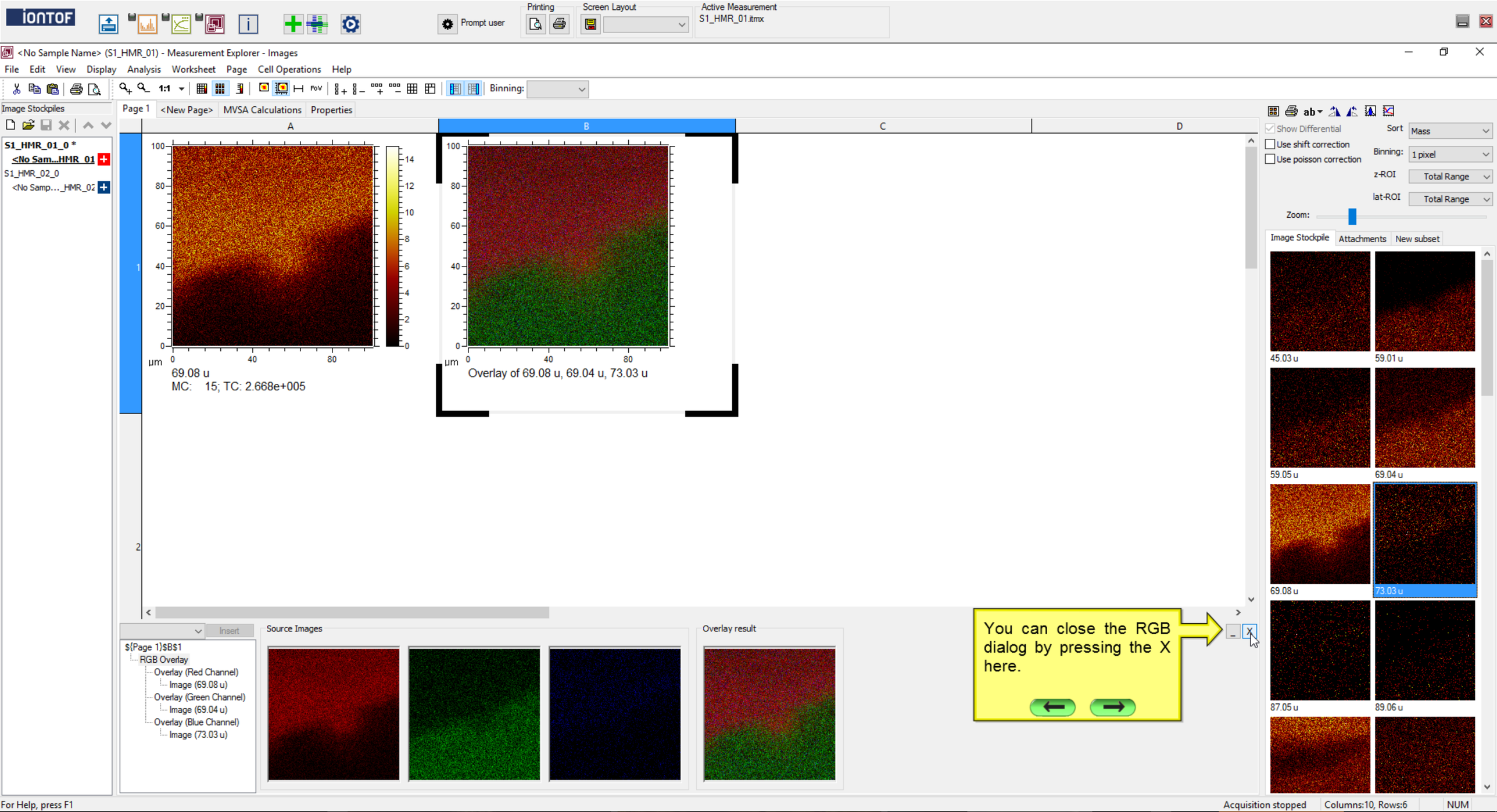
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
Missing operation references encountered.
Overlay of , ,
µm
69.08 u
MC: 15; TC: 2.668e+005
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
69.08 u
2.667820e+005 counts
87.05 u
89.06 u
Insert
${Page 1}$B$1
RGB Overlay
Unused
Unused
Unused
Source Images
Overlay
The color channels are shown here.
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

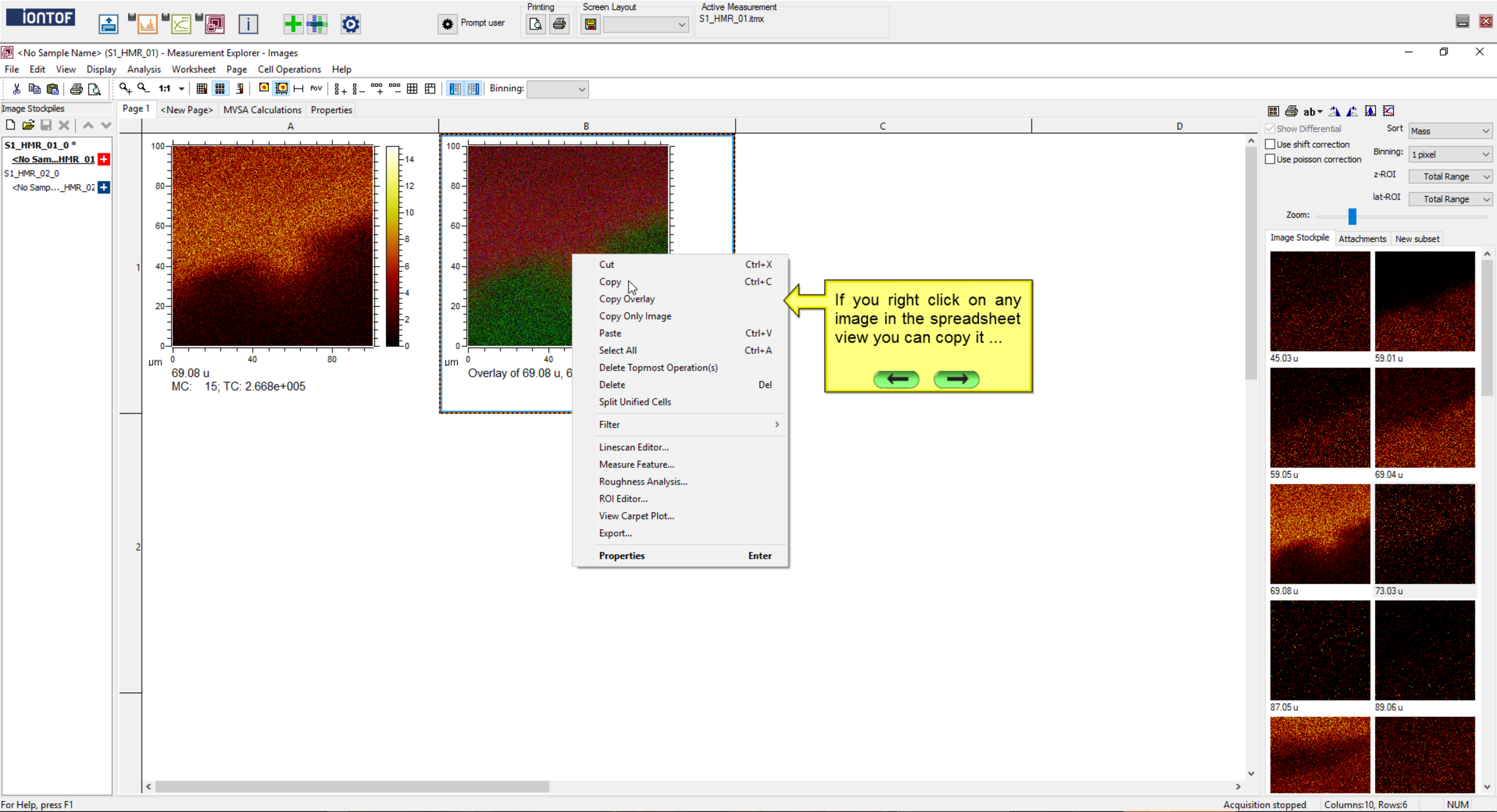

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
Missing operation references encountered.
Overlay of , ,
µm
69.08 u
MC: 15; TC: 2.668e+005
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Insert
${Page 1}$B$1
RGB Overlay
Unused
Unused
Unused
Source Images
Overlay result
You can drag and drop any image from the list on the right or the spreadsheet into each color channel. Here we drag m/z 69.08 into the red channel.
Acquisition stopped
Columns:10, Rows:6
NUM

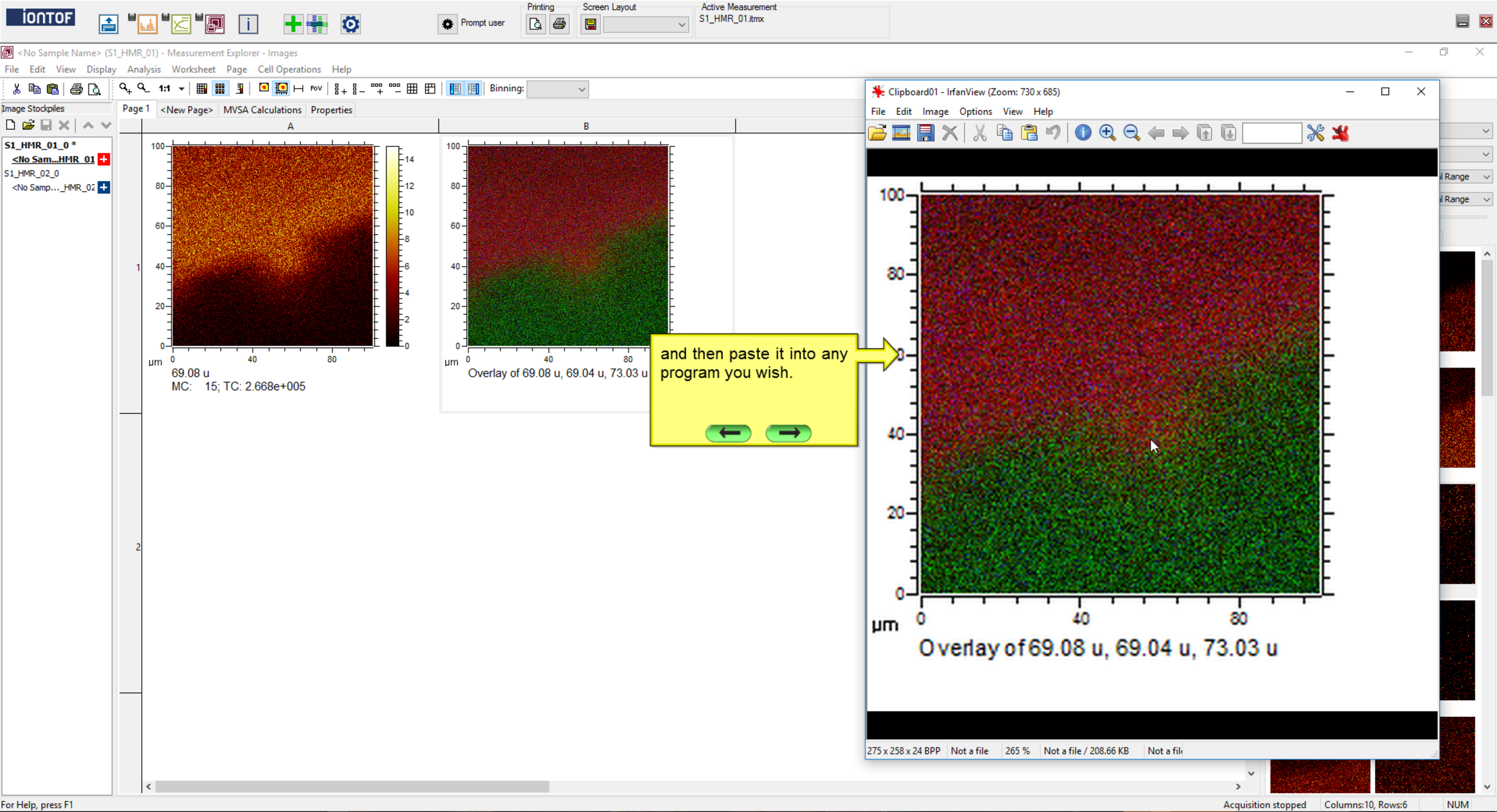

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, ,
µm
The overlay will be updated here too.
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Insert
${Page 1}$B$1
RGB Overlay
Overlay (Red Channel)
Image (69.08 u)
Unused
Unused
Source Images
Overlay result
The image is shown in the channel it was placed and in the 'Overlay result' view.
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

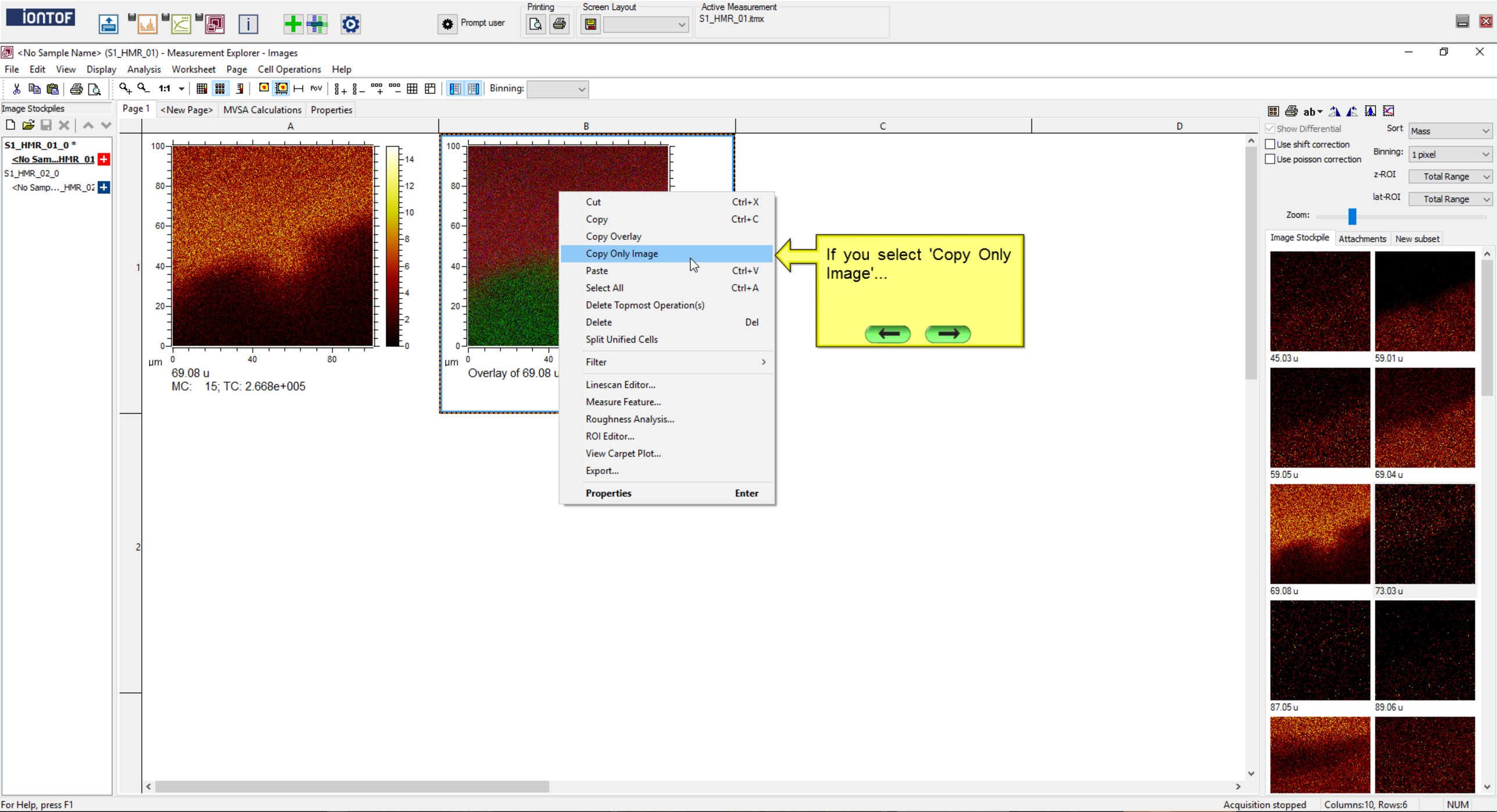

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u,
µm
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Insert
${Page 1}$B$1
RGB Overlay
Overlay (Red Channel)
Image (69.08 u)
Overlay (Green Channel)
Image (69.04 u)
Unused
Source Images
Overlay result
We have added m/z 69.04 into the green channel.
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

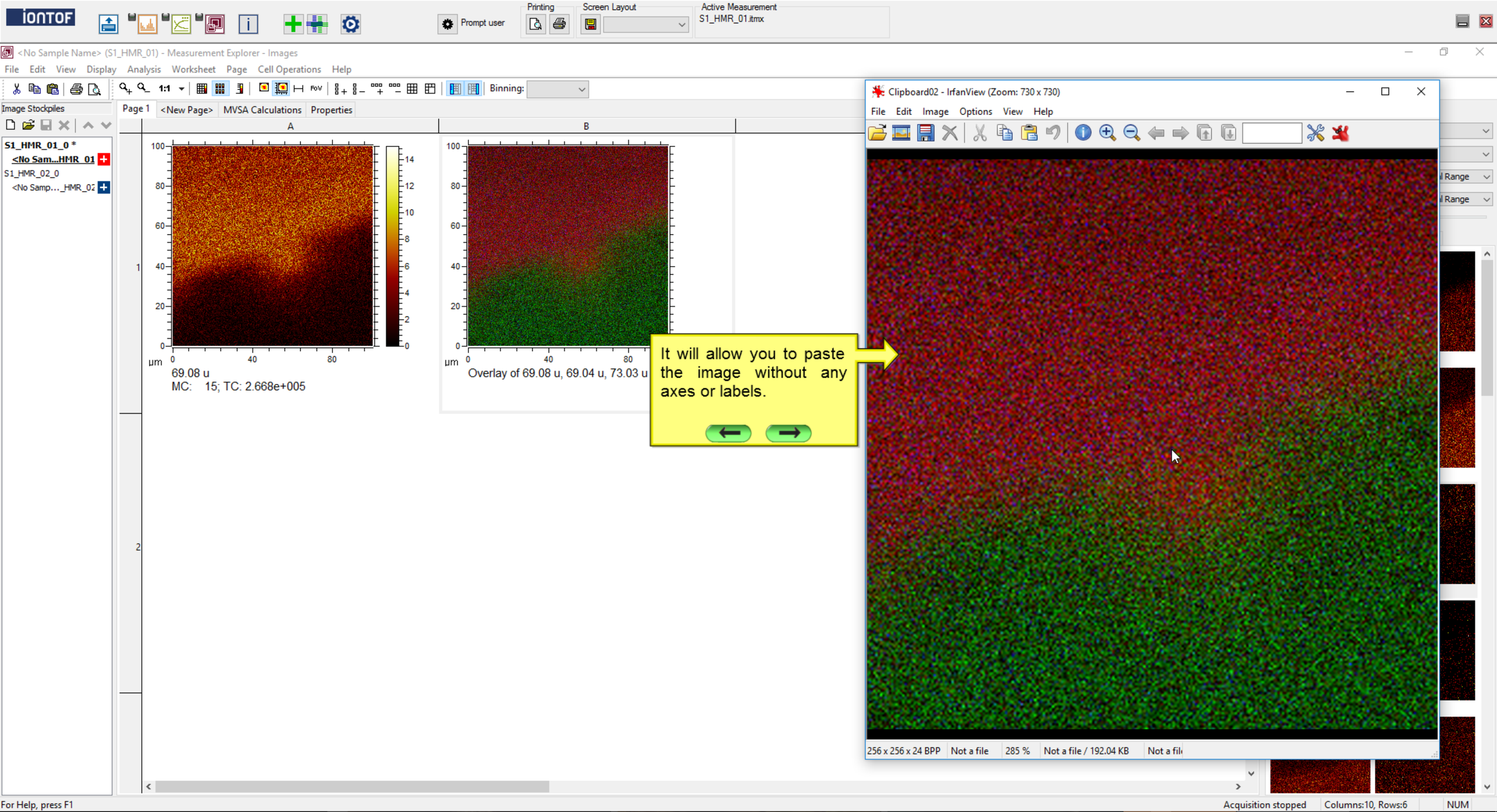

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
µm
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Insert
${Page 1}$B$1
RGB Overlay
Overlay (Red Channel)
Image (69.08 u)
Overlay (Green Channel)
Image (69.04 u)
Overlay (Blue Channel)
Image (73.03 u)
Source Images
Overlay result
We have added m/z 73.03 into the blue channel.
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM


Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
µm
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Insert
${Page 1}$B$1
RGB Overlay
Overlay (Red Channel)
Image (69.08 u)
Overlay (Green Channel)
Image (69.04 u)
Overlay (Blue Channel)
Image (73.03 u)
Source Images
Overlay result
You can close the RGB dialog by pressing the X here.
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

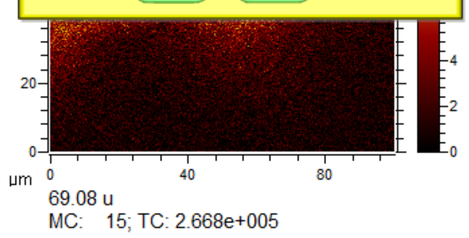

Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 6
Cut Ctrl+X
Copy Ctrl+C
Copy Overlay
Copy Only Image
Paste Ctrl+V
Select All Ctrl+A
Delete Topmost Operation(s)
Delete Del
Split Unified Cells
Filter
Linescan Editor...
Measure Feature...
Roughness Analysis...
ROI Editor...
View Carpet Plot...
Export...
Properties Enter
If you right click on any image in the spreadsheet view you can copy it ...
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

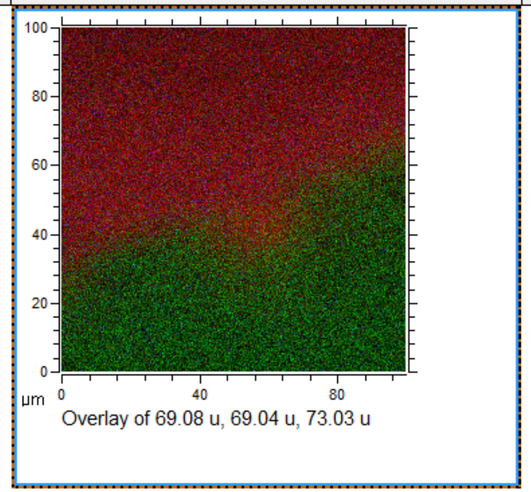

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
and then paste it into any program you wish.
Clipboard01 - IrfanView (Zoom: 730 x 685)
File Edit Image Options View Help
Overlay of 69.08 u, 69.04 u, 73.03 u
275 x 258 x 24 BPP
Not a file
265 %
Not a file / 208.66 KB
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

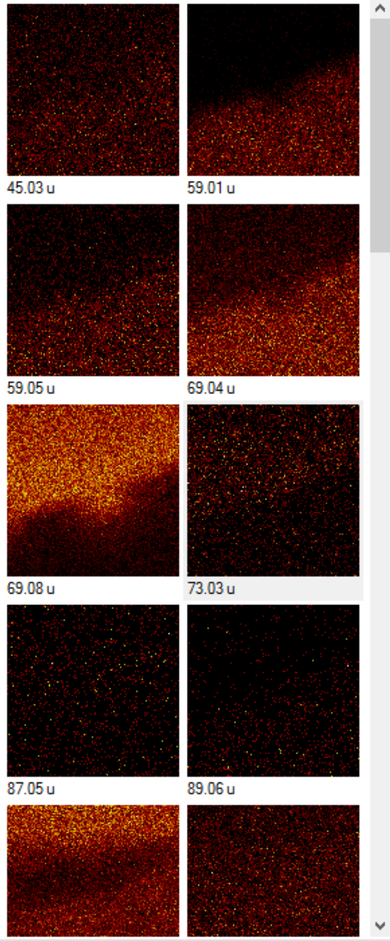

Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u
Cut Ctrl+X
Copy Ctrl+C
Copy Overlay
Copy Only Image
Paste Ctrl+V
Select All Ctrl+A
Delete Topmost Operation(s)
Delete Del
Split Unified Cells
Filter
Linescan Editor...
Measure Feature...
Roughness Analysis...
ROI Editor...
View Carpet Plot...
Export...
Properties Enter
If you select 'Copy Only Image'...
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM


Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
Page 1
<New Page>
MVSA Calculations
Properties
A
B
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
µm
It will allow you to paste the image without any axes or labels.
Clipboard02 - IrfanView (Zoom: 730 x 730)
File Edit Image Options View Help
256 x 256 x 24 BPP
Not a file
285 %
Not a file / 192.04 KB
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

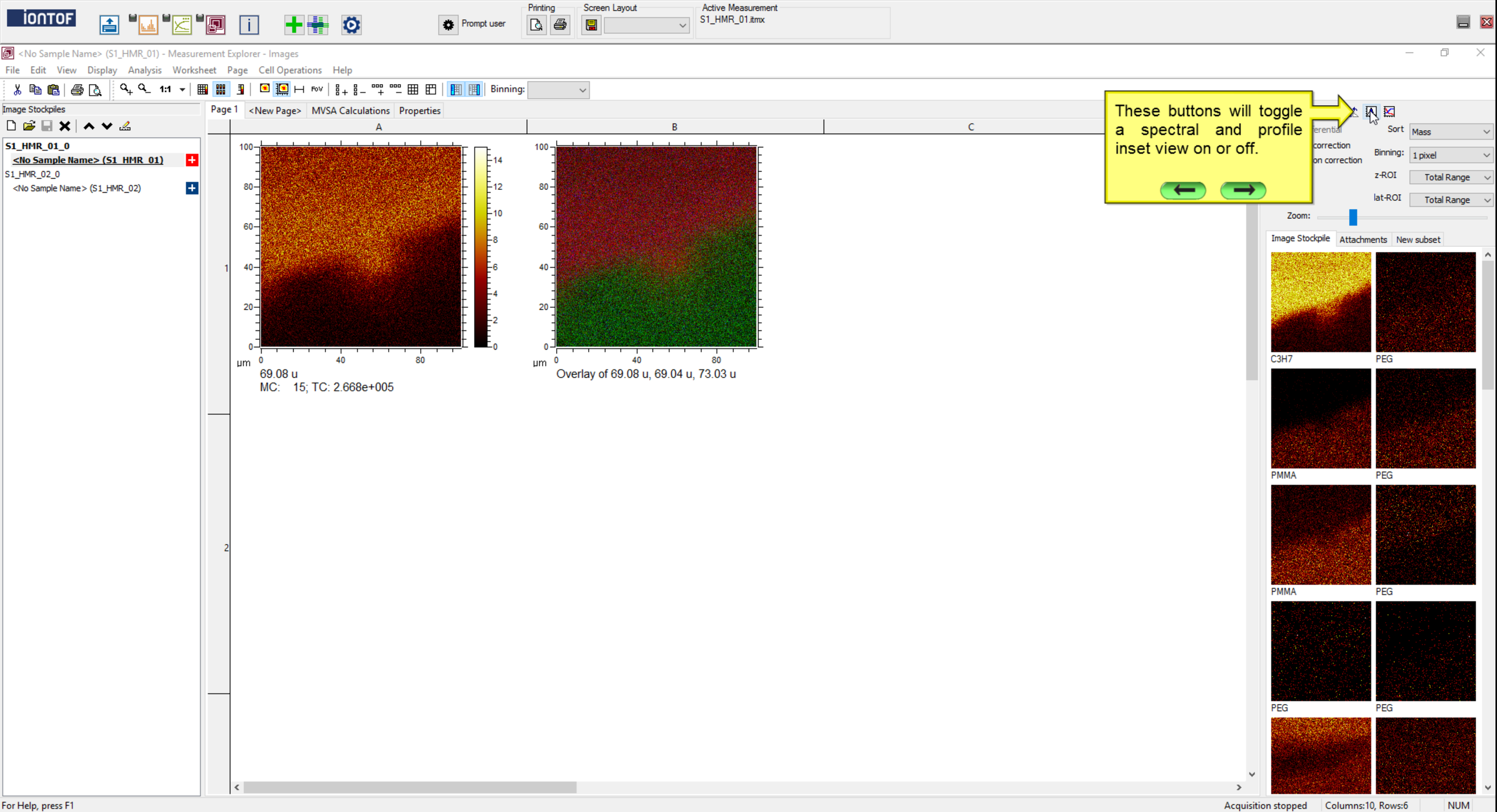
Any time you make a change to a cell in the spreadsheet you will need to save the file. Unsaved files are noted with an '*'.

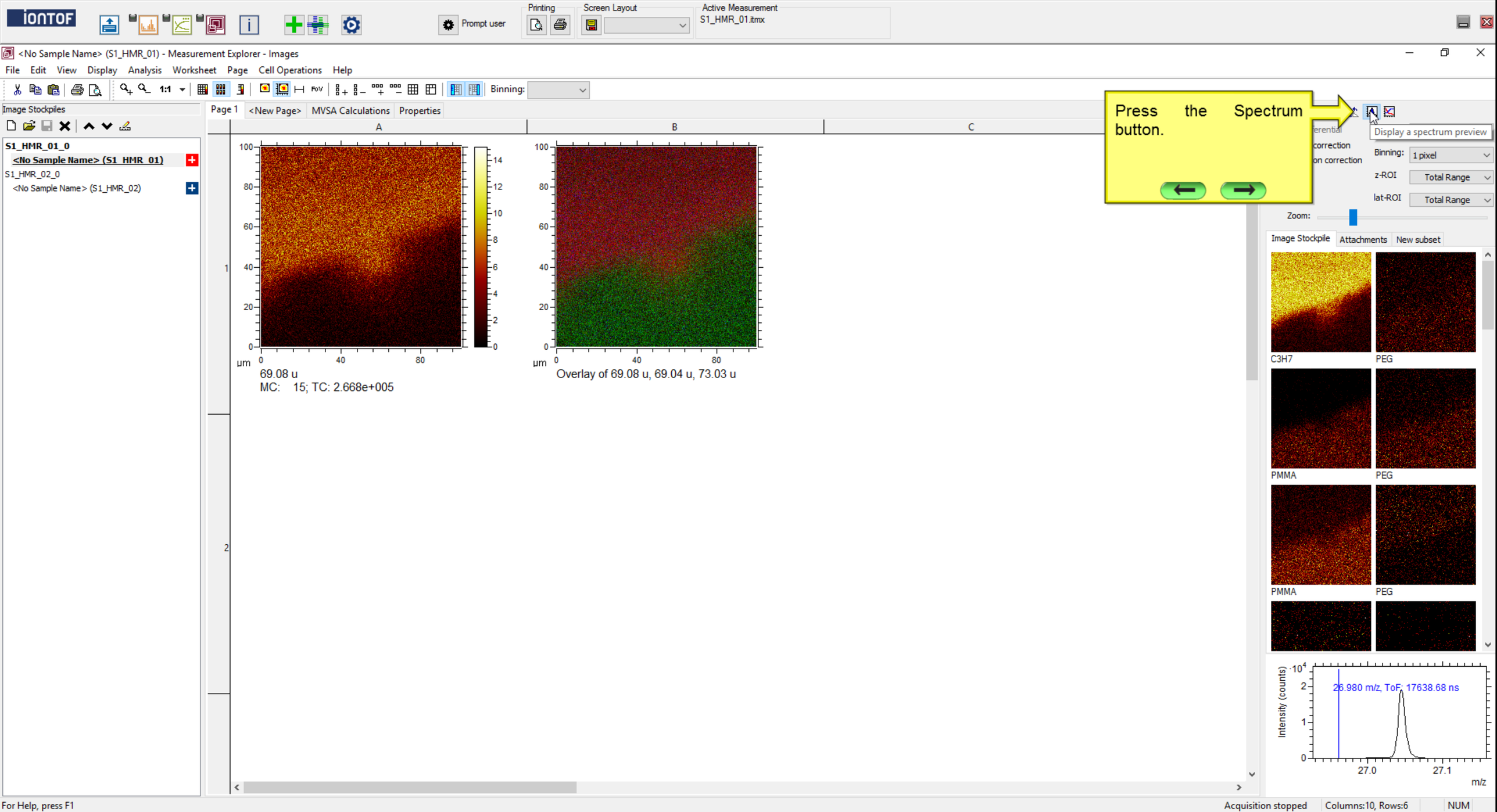

µm
69.08 u
MC: 15; TC: 2.668e+005


µm
Overlay of 69.08 u, 69.04 u, 73.03 u


45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u

Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
Save Selected
Press the save button to save the file.
S1_HMR_01_0
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02
B
C
D
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
µm
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
45.03 u
59.01 u
59.05 u
69.04 u
69.08 u
73.03 u
87.05 u
89.06 u
Show or hide the toolbar
Acquisition stopped
Columns:10, Rows:6
NUM


Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0
<No Sample Name> (S1_HMR_01)
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
1
2
µm
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
These buttons will toggle a spectral and profile inset view on or off.
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
C3H7
PEG
PMMA
PEG
PMMA
PEG
PEG
PEG
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM


Prompt user
Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0
<No Sample Name> (S1_HMR_01)
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
µm
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
Press the Spectrum button.
Display a spectrum preview
correction
on correction
Binning: 1 pixel
z-ROI Total Range
lat-ROI Total Range
Zoom:
Image Stockpile
Attachments
New subset
C3H7
PEG
PMMA
PEG
PMMA
PEG
Intensity (counts)
26.980 m/z, ToF: 17638.68 ns
m/z
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images

File Edit View Display Analysis Worksheet Page Cell Operations Help

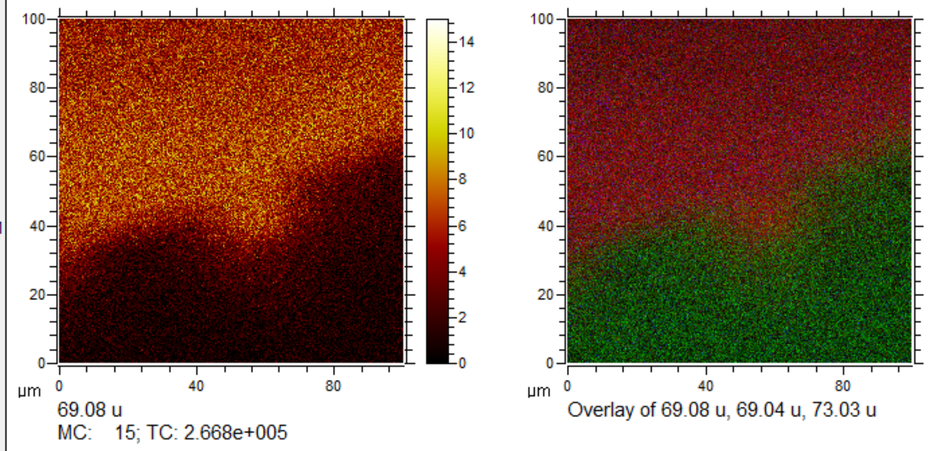
Binning:

Image Stockpiles

S1_HMR_01_0
<No Sample Name> (S1_HMR_01)
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)

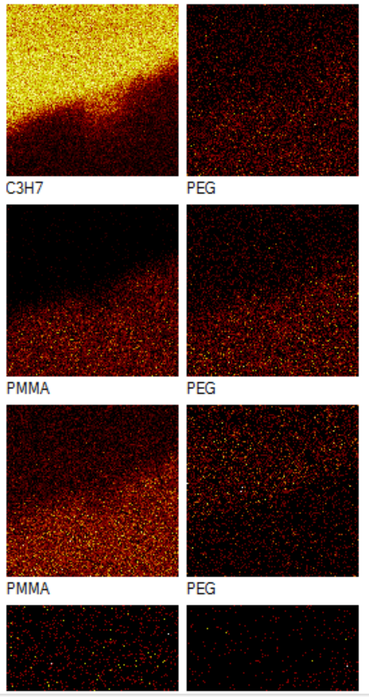
Page 1 | <New Page> | MVSA Calculations | Properties

A B C

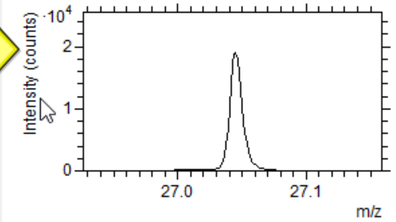


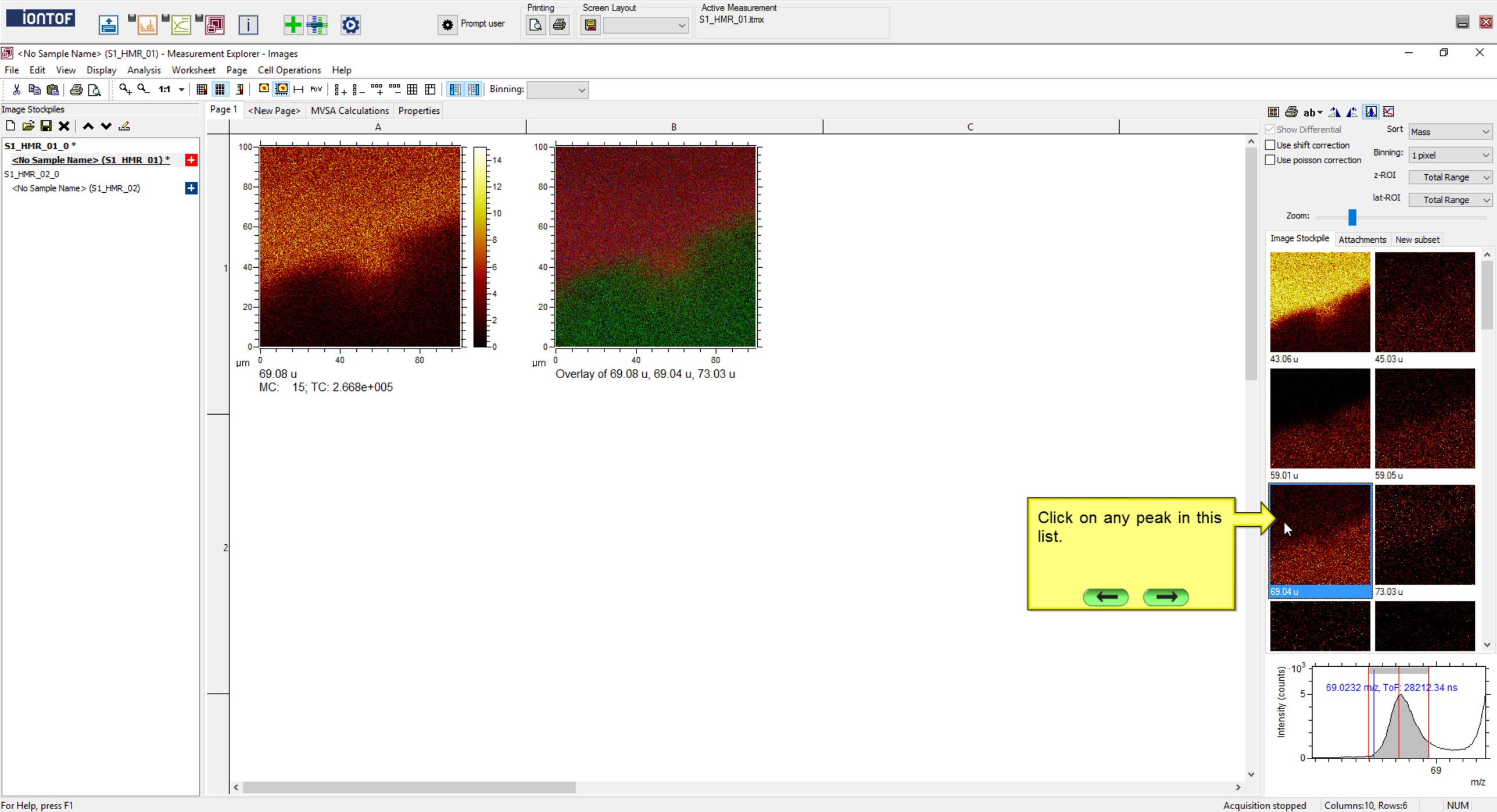
Show Differential
Use shift correction
Use poisson correction
Sort: Mass
Binning: 1 pixel
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

Image Stockpile | Attachments | New subset



The inlet view of the spectra will be shown here.




Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sample Name> (S1_HMR_01) *
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
µm
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
43.06 u
45.03 u
59.01 u
59.05 u
69.04 u
73.03 u
Click on any peak in this list.
Intensity (counts)
69.0232 m/z, ToF: 28212.34 ns
m/z
For Help, press F1
Acquisition stopped
Columns:10, Rows:6
NUM

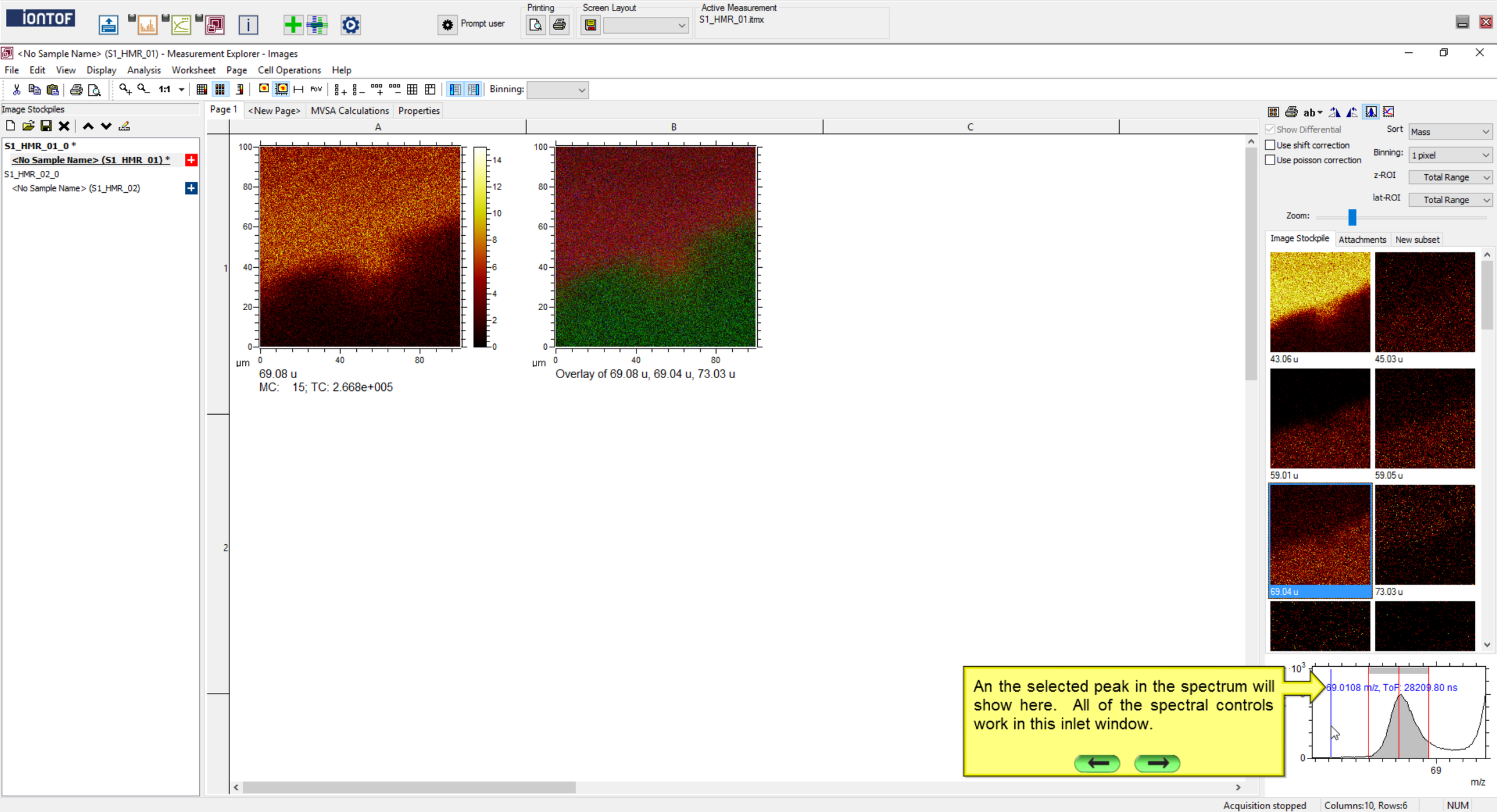
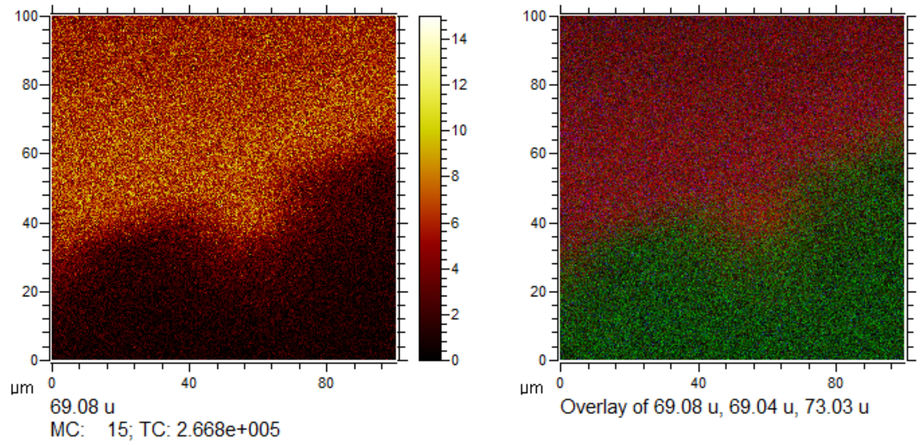

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sample Name> (S1_HMR_01) *
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.04 u, 73.03 u
µm
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
43.06 u
45.03 u
59.01 u
59.05 u
69.04 u
73.03 u
An the selected peak in the spectrum will show here. All of the spectral controls work in this inlet window.
69.0108 m/z, ToF: 28209.80 ns
m/z
Acquisition stopped
Columns:10, Rows:6
NUM

Image Stockpiles

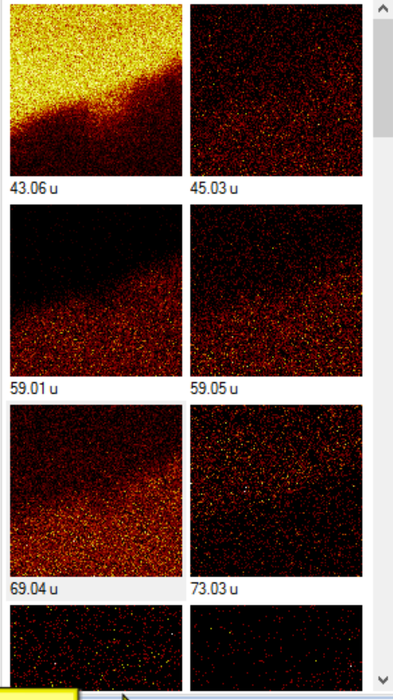
S1_HMR_01_0 *
<No Sample Name> (S1_HMR_01) *
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)

Page 1 | <New Page> | MVSA Calculations | Properties



Show Differential
Use shift correction
Use poisson correction
Sort: Mass
Binning: 1 pixel
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

Image Stockpile | Attachments | New subset



You can select and change the integration limits within this window.

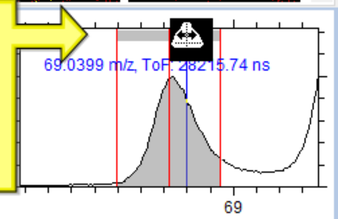
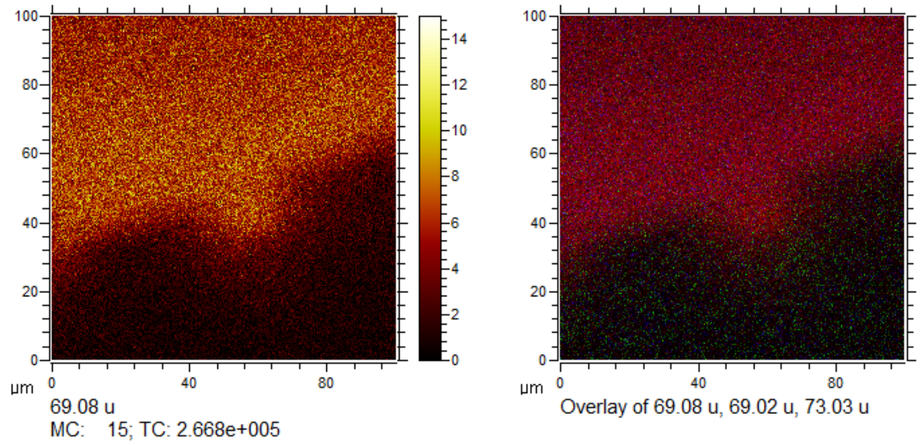


Image Stockpiles

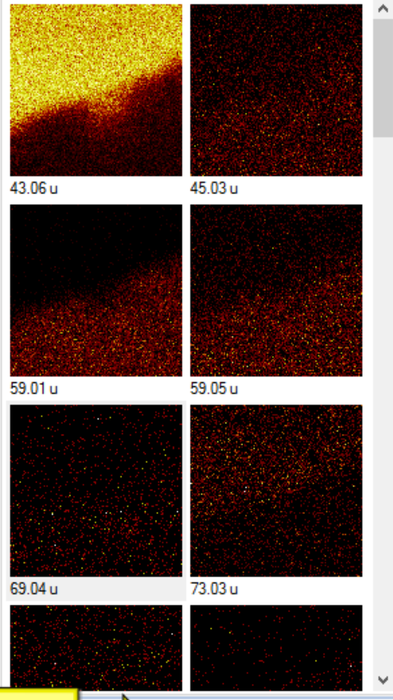
S1_HMR_01_0 *
<No Sample Name> (S1_HMR_01) *
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)

Page 1 | <New Page> | MVSA Calculations | Properties

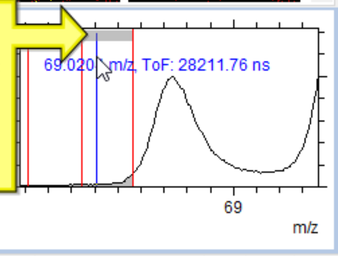


Show Differential
Use shift correction
Use poisson correction
Sort: Mass
Binning: 1 pixel
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

Image Stockpile | Attachments | New subset



Here I moved the integration limits off the peak.



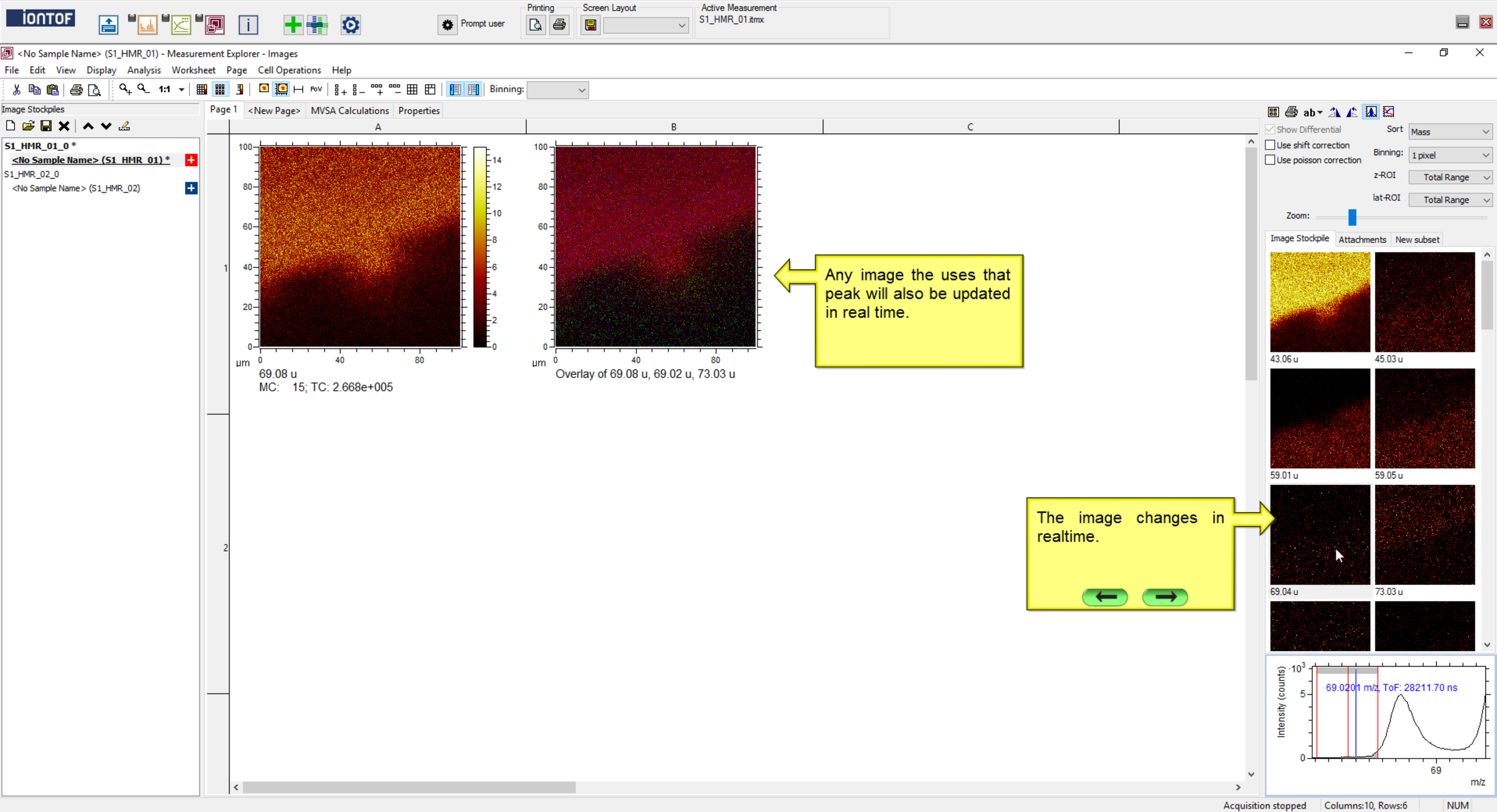
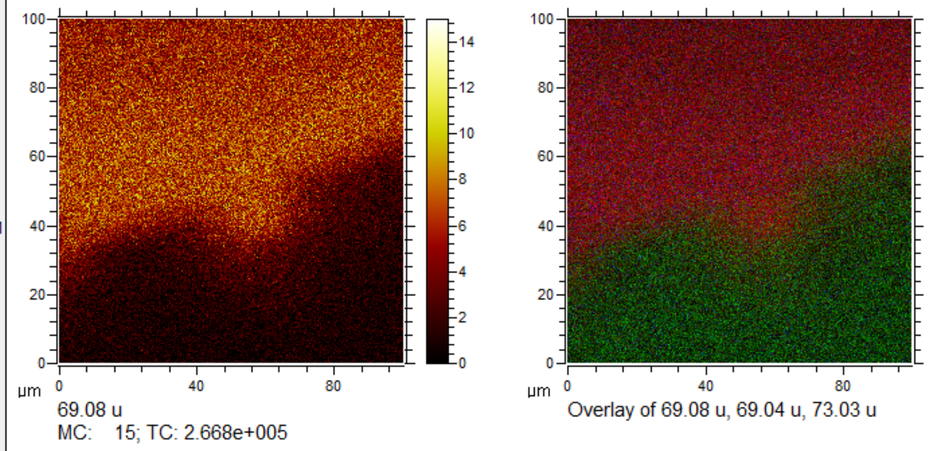

Printing
Screen Layout
Active Measurement
S1_HMR_01.itmx
Prompt user
<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images
File Edit View Display Analysis Worksheet Page Cell Operations Help
Binning:
Image Stockpiles
S1_HMR_01_0 *
<No Sample Name> (S1_HMR_01) *
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)
Page 1
<New Page>
MVSA Calculations
Properties
A
B
C
69.08 u
MC: 15; TC: 2.668e+005
Overlay of 69.08 u, 69.02 u, 73.03 u
µm
Any image the uses that peak will also be updated in real time.
The image changes in realtime.
Show Differential
Use shift correction
Use poisson correction
Sort
Mass
Binning:
1 pixel
z-ROI
Total Range
lat-ROI
Total Range
Zoom:
Image Stockpile
Attachments
New subset
43.06 u
45.03 u
59.01 u
59.05 u
69.04 u
73.03 u
Intensity (counts)
69.0201 m/z, ToF: 28211.70 ns
m/z
Acquisition stopped
Columns:10, Rows:6
NUM

Image Stockpiles

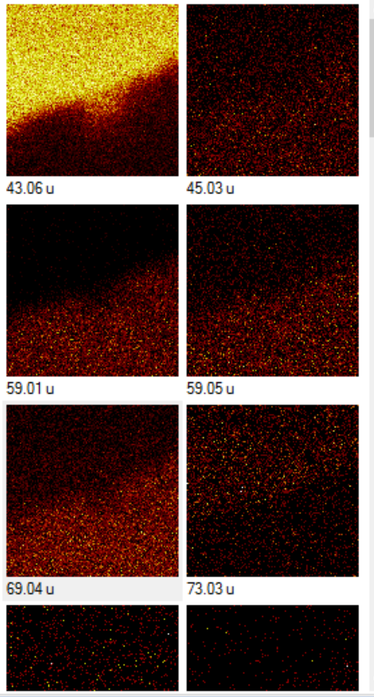
S1_HMR_01_0 *
<No Sample Name> (S1_HMR_01) *
S1_HMR_02_0
<No Sample Name> (S1_HMR_02)

Page 1 | <New Page> | MVSA Calculations | Properties

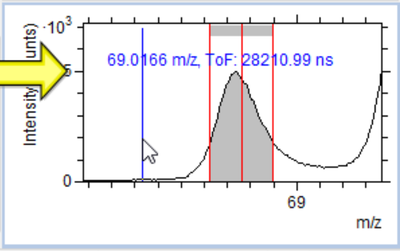


Show Differential
Use shift correction
Use poisson correction
Sort: Mass
Binning: 1 pixel
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

Image Stockpile | Attachments | New subset



The integration limits have been reset to a more reasonable location (near the full width at half max).



<No Sample Name> (S1_HMR_01) - Measurement Explorer - Images

File Edit View Display Analysis Worksheet Page Cell Operations Help

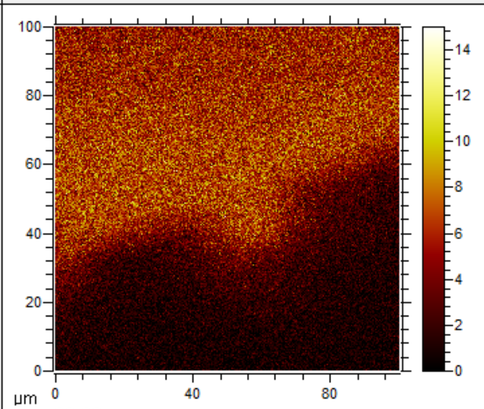
Binning:

Image Stockpiles

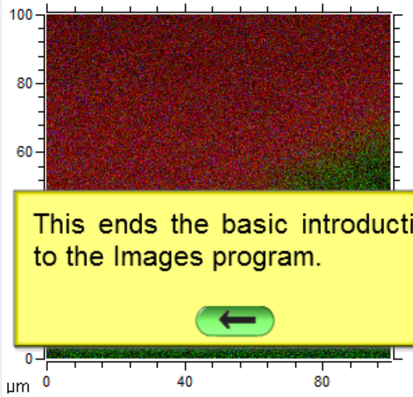
Save Selected

S1_HMR
<No Sam...HMR_01
S1_HMR_02_0
<No Samp..._HMR_02

Page 1 | <New Page> | MVSA Calculations | Properties



69.08 u
MC: 15; TC: 2.668e+005



Overlay of 69.08 u, 69.04 u, 73.03 u

This ends the basic introduction to the Images program.

Show Differential
Use shift correction
Use poisson correction
Sort: Mass
Binning: 1 pixel
z-ROI: Total Range
lat-ROI: Total Range
Zoom:

Image Stockpile | Attachments | New subset