zcorrectorgui

File

Import BiF Data From Directory

Import Bif(6)

Import Bif3D

Import Data From Workspace

Load WS

Down binning or normalizing the data cannot be undone. You must reload the original data in order to restore the original matrix.

Downbin Data

Normalize Data

Adjust Total Counts Threshold Value

Work with Uncorrected Data

Overlay Tools

3D Tools

Color Overlay

2D Profiles

PCA Tools

Close

Number of image layers:

Data Being Displ

Total_Counts

< ------ X ------ >

This tutorial contains navigation buttons that enable you to move throughout the tutorial.

Please use the navigation buttons and not the page up/page down or arrow keys to navigate through the tutorials.

This is the 'Next' button. It takes you to the next frame or stop point.

This is the 'Previous' button. It takes you to the previous frame or stop point.

This is the 'Go to frame' button. It takes you to a specified frame.

This is the 'Go to URL' button. It takes you to a website link.

95

0

1

If you want to save the movie frames check this box before creating the movie.

Create XY Corr Slice Movie

Create XZ Corr Slice Movie

Create YZ Corr Slice Movie

Layer number:

Z corrected image XZ

Save Corr XZ

column #

0

1

Press the 'Next' button below to start this tutorial.

Z line YZ

Z corrected image YZ

Save Corr YZ

< ------ Y ------ >

row #

0

1

256

zcorrectorgui

File

Import BiF Data From Directory

Import Bif(6)

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Load WS

Number of image layers: 95

Down binning or normalizing the data cannot be undone. You must reload the original data in order to restore the original matrix.

Downbin Data

Normalize Data

Adjust Total Counts Threshold Value

Work with Uncorrected Data

Overlay Tools

3D Tools

Color Overlay

2D Profiles

PCA Tools

Close

Data Being Displayed
Total_Counts

< ------ X ------ >

Peak List

Total_Counts
15.02

Initialize Corrected Data

Z corrected image XY

< ------ X ------ >

95

0

^ | Y | v

Layer number: 1

This tutorial will cover a new capability in the 2D Profiles panel of the zcorrectorgui. This new capability allows the user to create line scans layer by layer for any peak. This allows the user to monitor changes in the relative intensity of the selected peaks through the depth profile.

If you want to save the movie frames check this box before creating the movie.

Create XY Corr Slice Movie

Create XZ Corr Slice Movie

Create YZ Corr Slice Movie

^ | Z | v

< ------ X ------ >

0 column # 1 256

Thresholded total counts XZ

Z line XZ

Z corrected image XZ

Save Corr XZ

^ | Z | v

< ------ Y ------ >

0 row # 1 256

Thresholded total counts YZ

Z line YZ

Z corrected image YZ

Save Corr YZ

zcorrectorgui

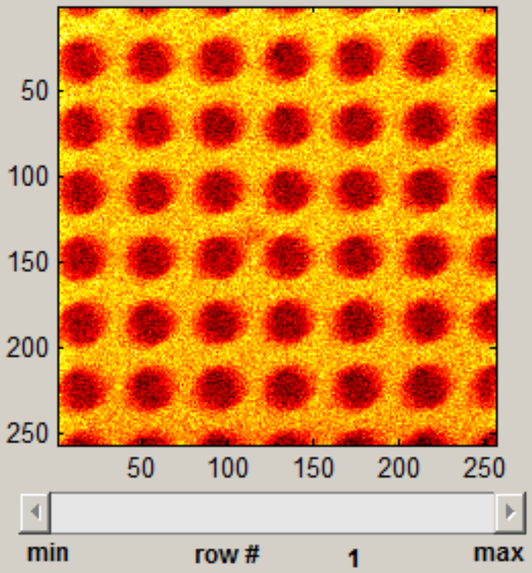
File

Sputtertime/layer 1 sec

Choose Profile Type

Choose One

After opening the 2D profiles panel, enter the sputter time per layer in this box.



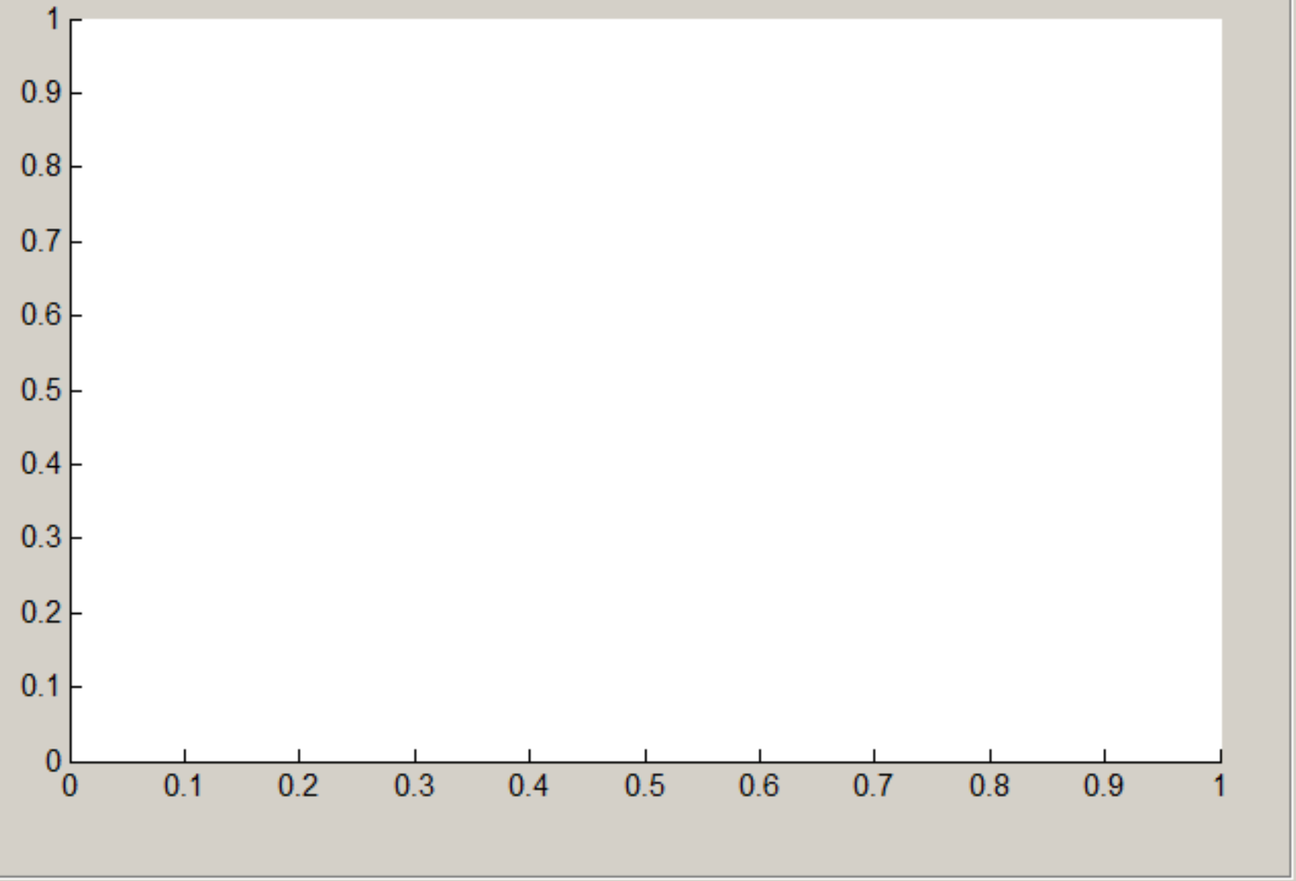
max

row #
1

min

Peaks

Total_Counts
15.02
17.04
19.02
22.99
26.01
27.02
28.03
29.00
29.04
30.04
31.02
33.03
37.00
38.96
39.02
40.03



Save Plot

Ext Plot

Export Data

Close

zcorrectorgui

File

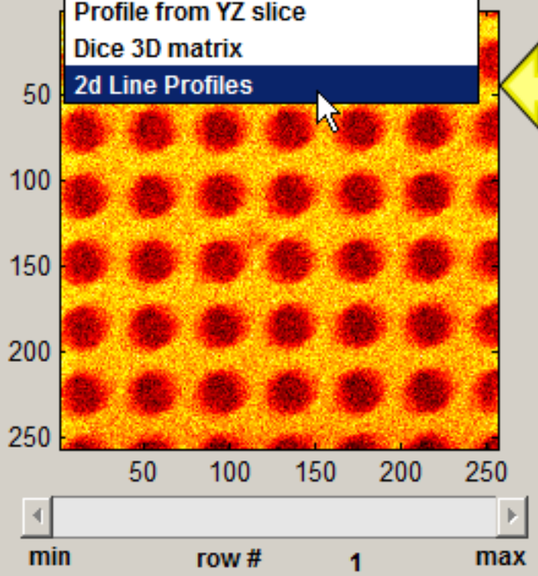
Sputtertime/layer 1 sec

Choose Profile Type

Choose One

- Choose One
- Profile from full XY slices
- Profile from ROI
- Profile from XZ slice
- Profile from YZ slice
- Dice 3D matrix
- 2d Line Profiles

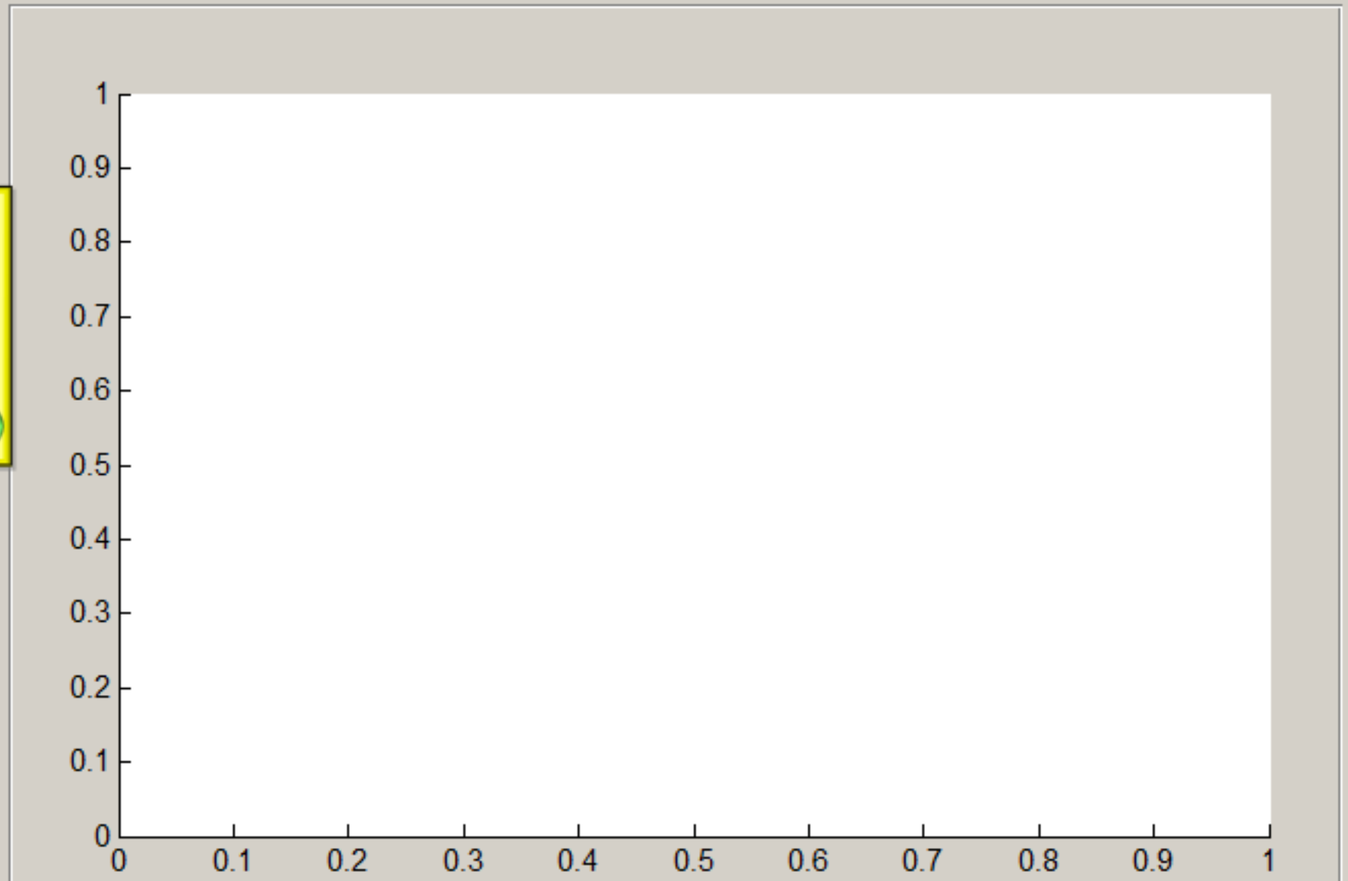
Then select '2d Line Profiles' from the drop down menu.



Peaks

min

29.00
29.04
30.04
31.02
33.03
37.00
38.96
39.02
40.03



Save Plot | Ext Plot | Export Data | Close

zcorrectorgui

File

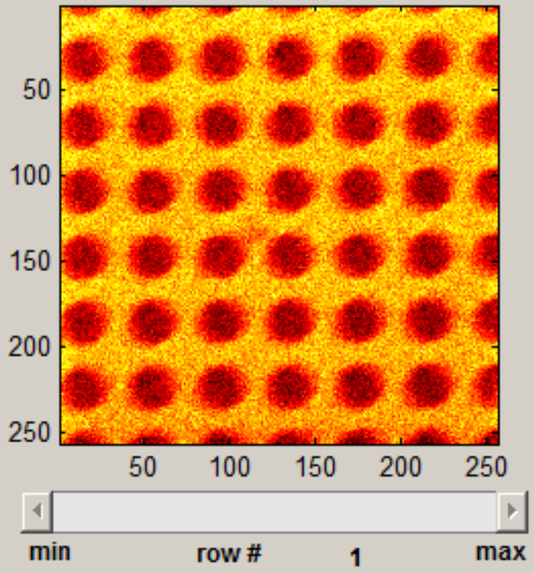
Sputtertime/layer 1 sec

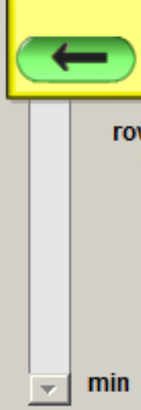
Choose Profile Type

2d Line Profiles

Set Linescan Region

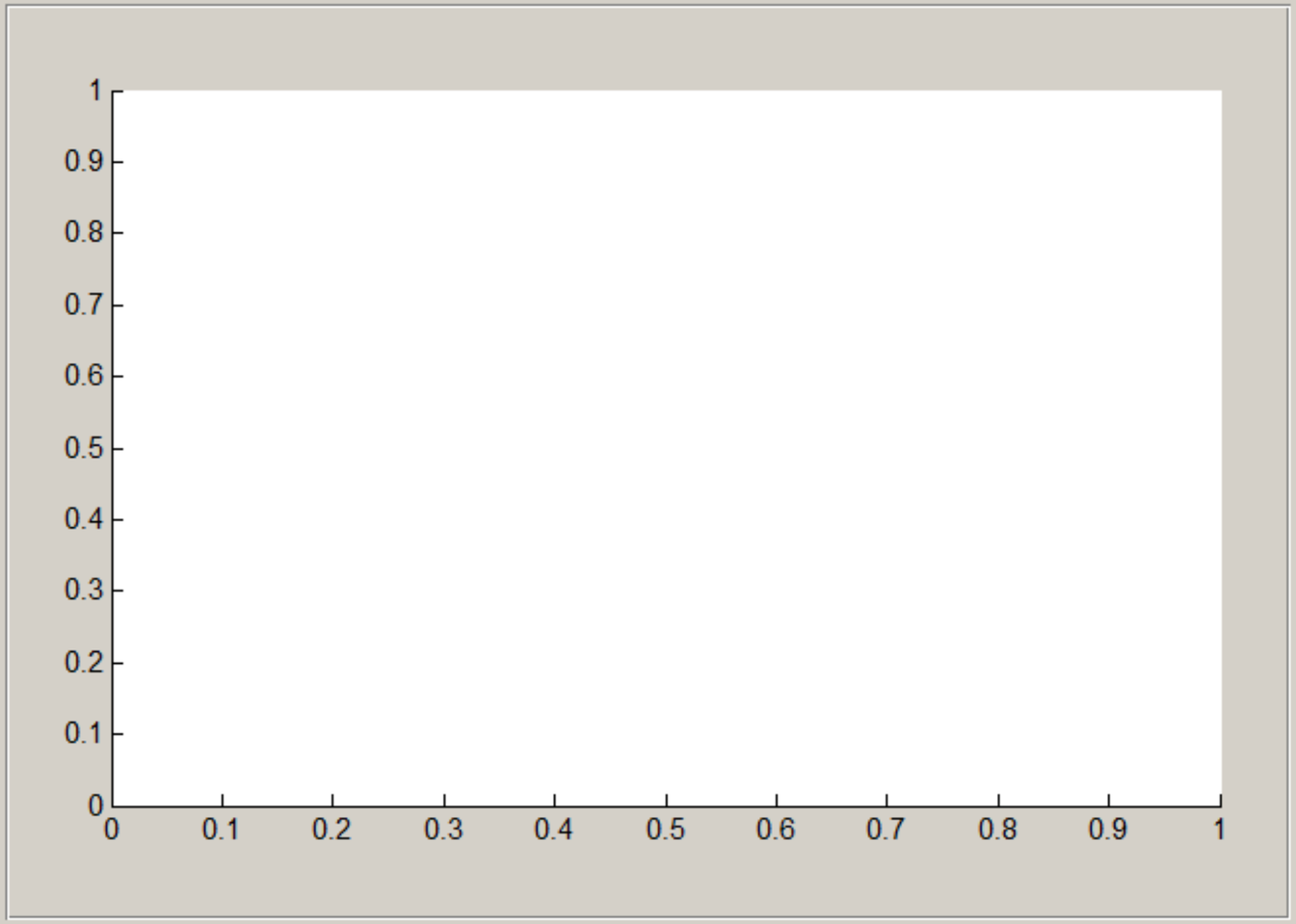
Press the 'Set Linescan Region' buttton.





row # 1

1	19.02
2	22.99
3	26.01
4	27.02
5	28.03
6	29.00
7	29.04
8	30.04
9	31.02
10	33.03
11	37.00
12	38.96
13	39.02
14	40.03
15	
16	
17	



Save Plot | Ext Plot | Export Data | Close

zcorrectorgui

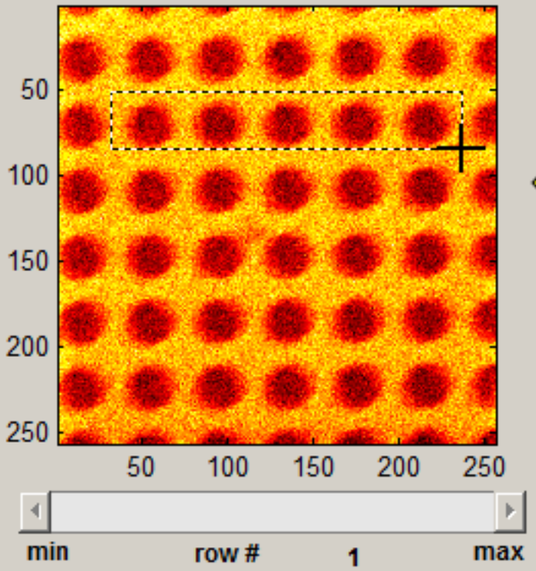
File

Sputtertime/layer 1 sec

Choose Profile Type

Click and drag with Right mouse button

Set Linescan Region



max

Peaks

Total_Counts
15.02
17.04

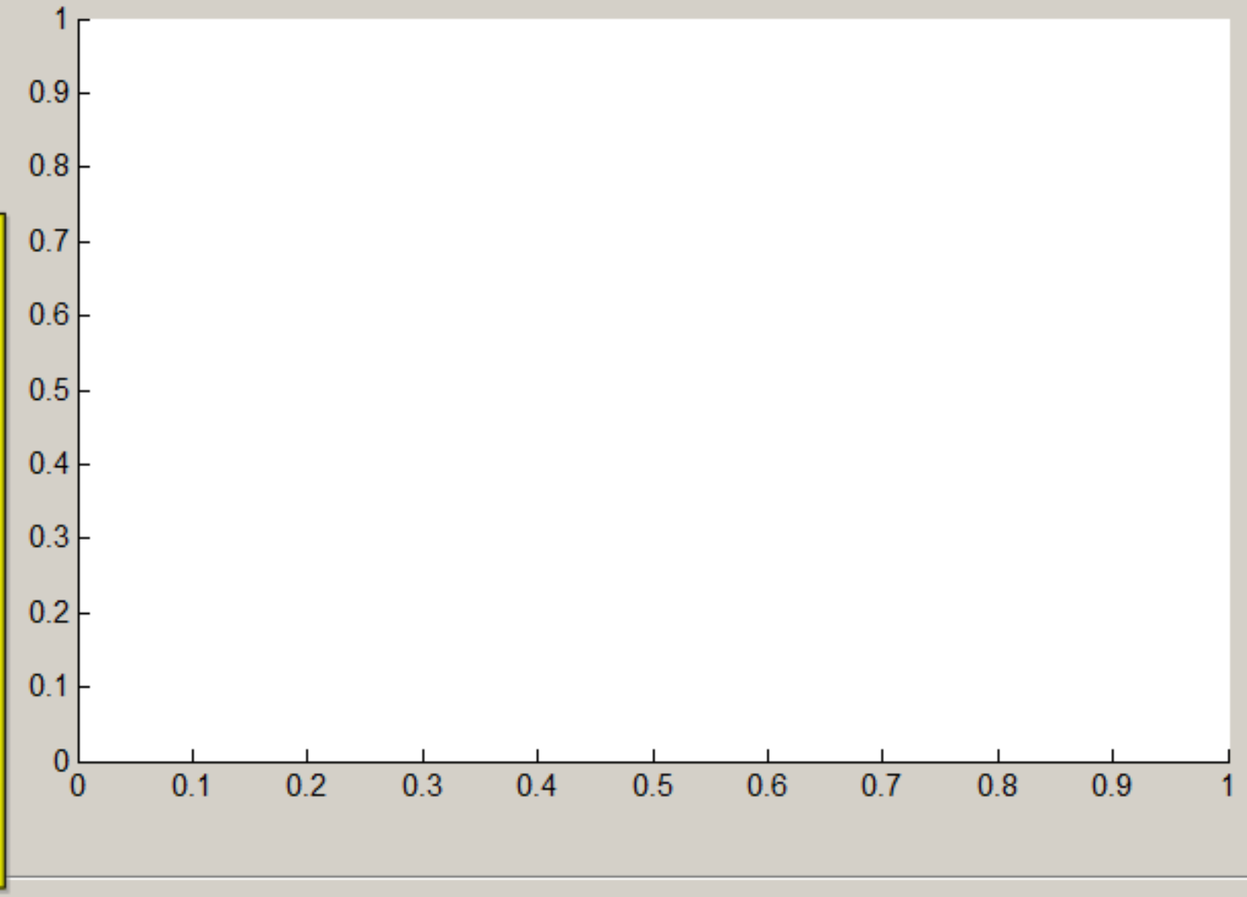
Layer

1
2
3

Click and drag with the left mouse to define the region you want to perform the line scan.

The line scan will be created by summing the intensities of the pixels along the longest axis of the selected region.

So in the example shown here the line scan will be created by summing the data in the Y direction to create a single summed intensity line along the x-axis for the selected area.



Save Plot

Ext Plot

Export Data

Close

zcorrectorgui

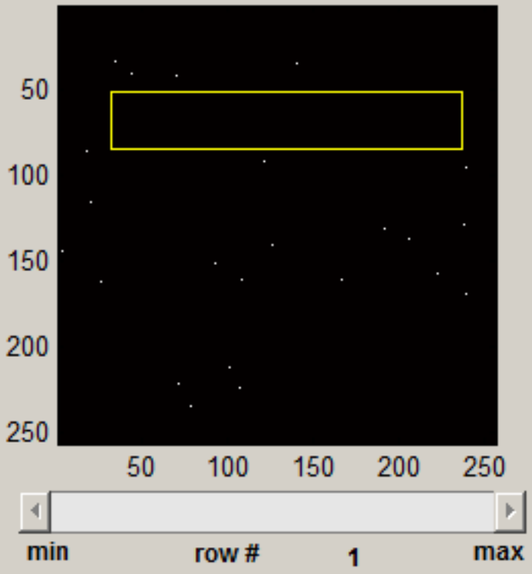
File

Sputtertime/layer 1 sec

Choose Profile Type

2d Line Profiles

Set Linescan Region



max

row #
1

min

Export LS Data

Peaks

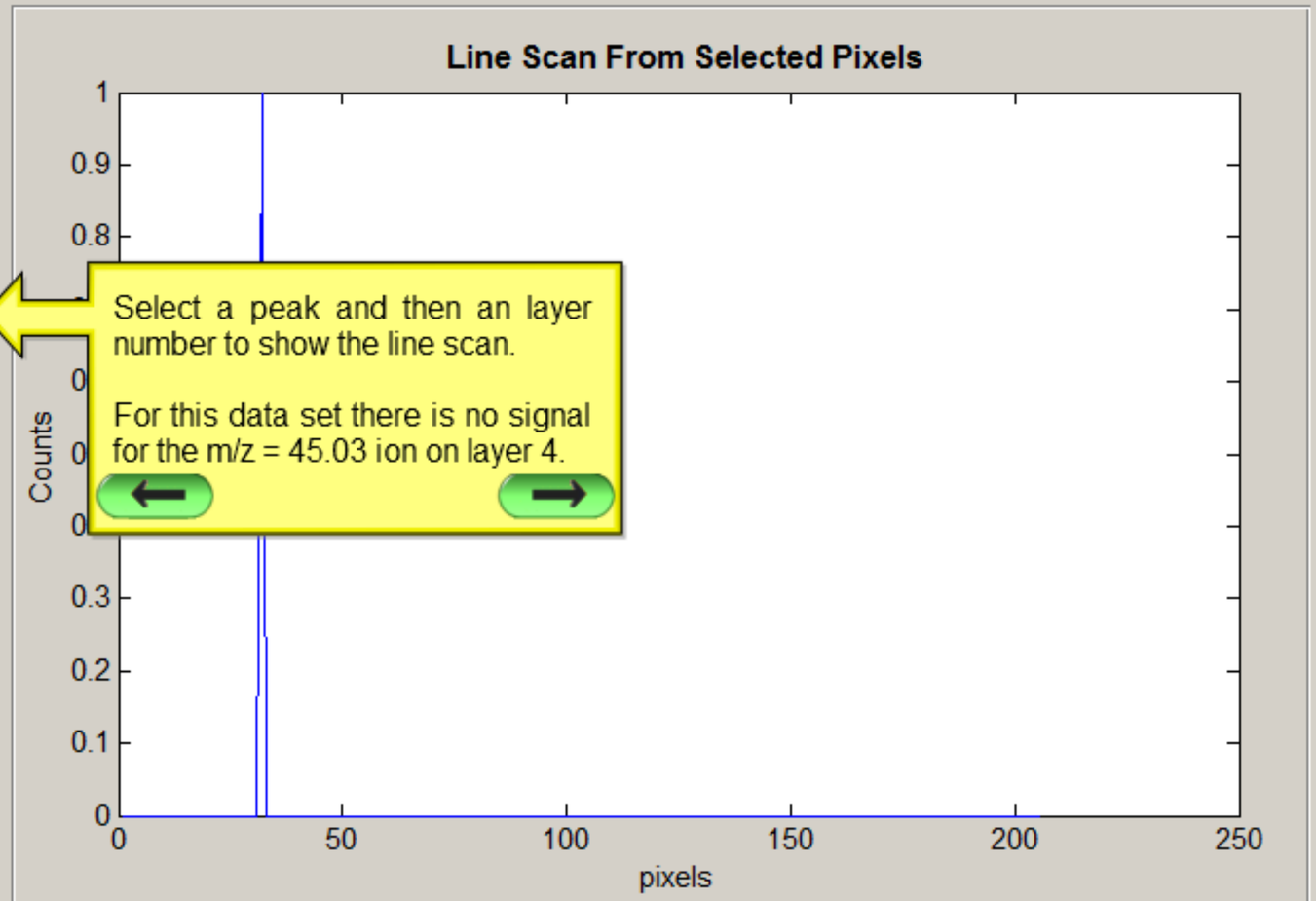
41.04
42.01
42.04
43.02
43.05
44.02
44.06
45.00
45.03
46.04
47.01
47.05
50.01
51.02
52.03
53.04
54.01

Layer

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Select a peak and then an layer number to show the line scan.

For this data set there is no signal for the m/z = 45.03 ion on layer 4.



Save Plot

Ext Plot

Export Data

Close

zcorrectorgui

File

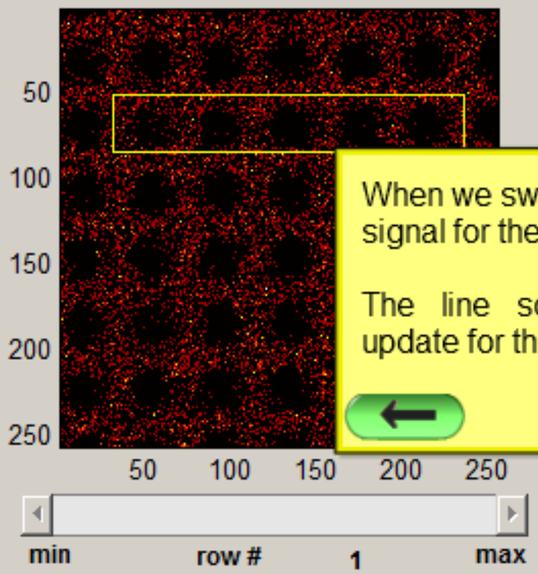
Sputtertime/layer 1 sec

Choose Profile Type

2d Line Profiles

Set Linescan Region

Export LS Data



max

Peaks

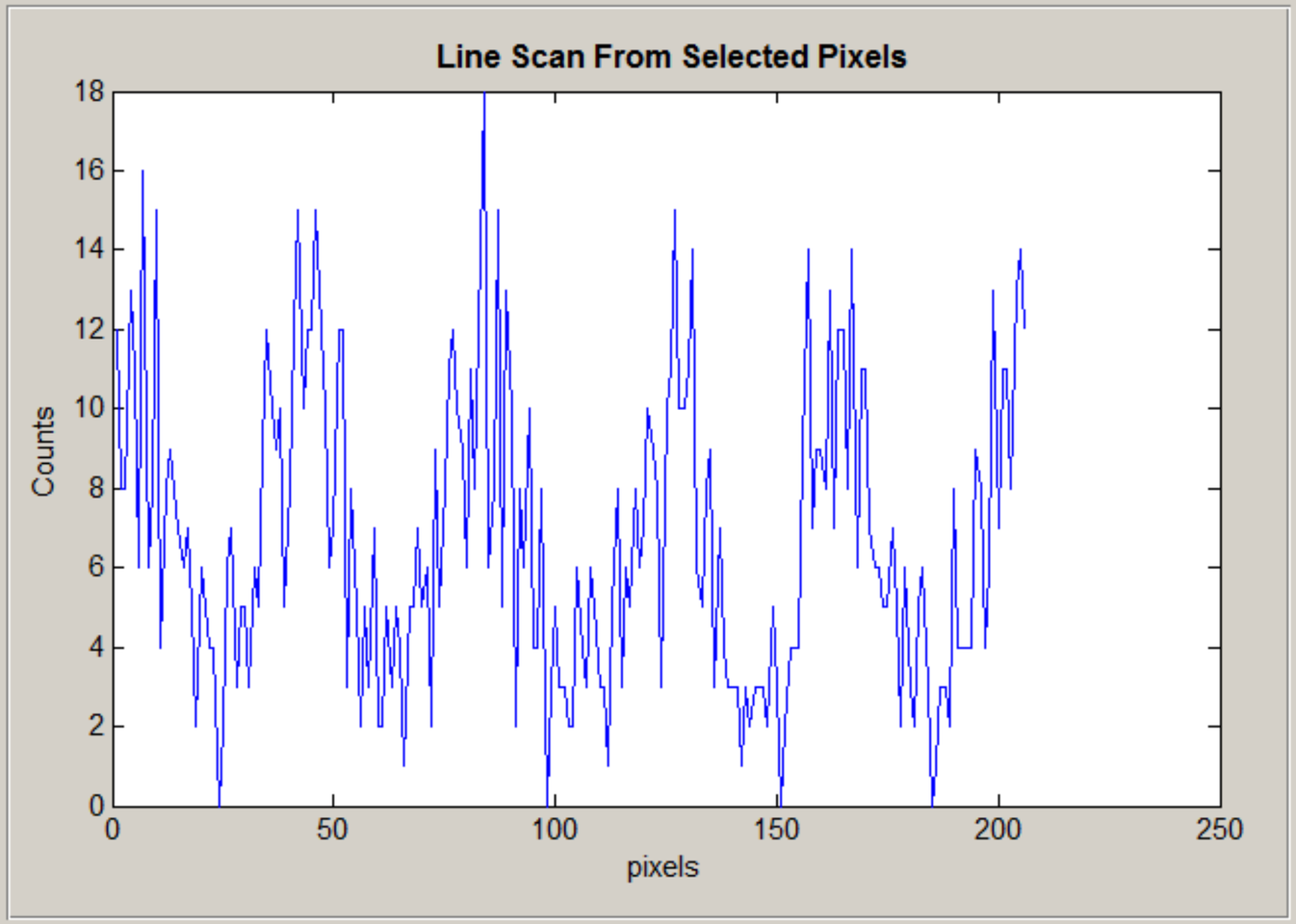
41.04
42.01
42.04
51.02
52.03
53.04
54.01

Layer

66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82

When we switch to layer 70 we see signal for the selected mass.

The line scan and the image update for the selected layer.



Save Plot

Ext Plot

Export Data

Close

zcorrectorgui

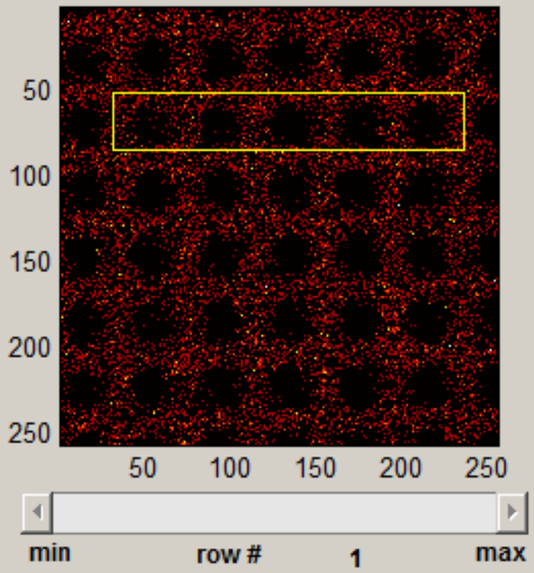
File

Sputtertime/layer 1 sec

Choose Profile Type

2d Line Profiles

Set Linescan Region



max

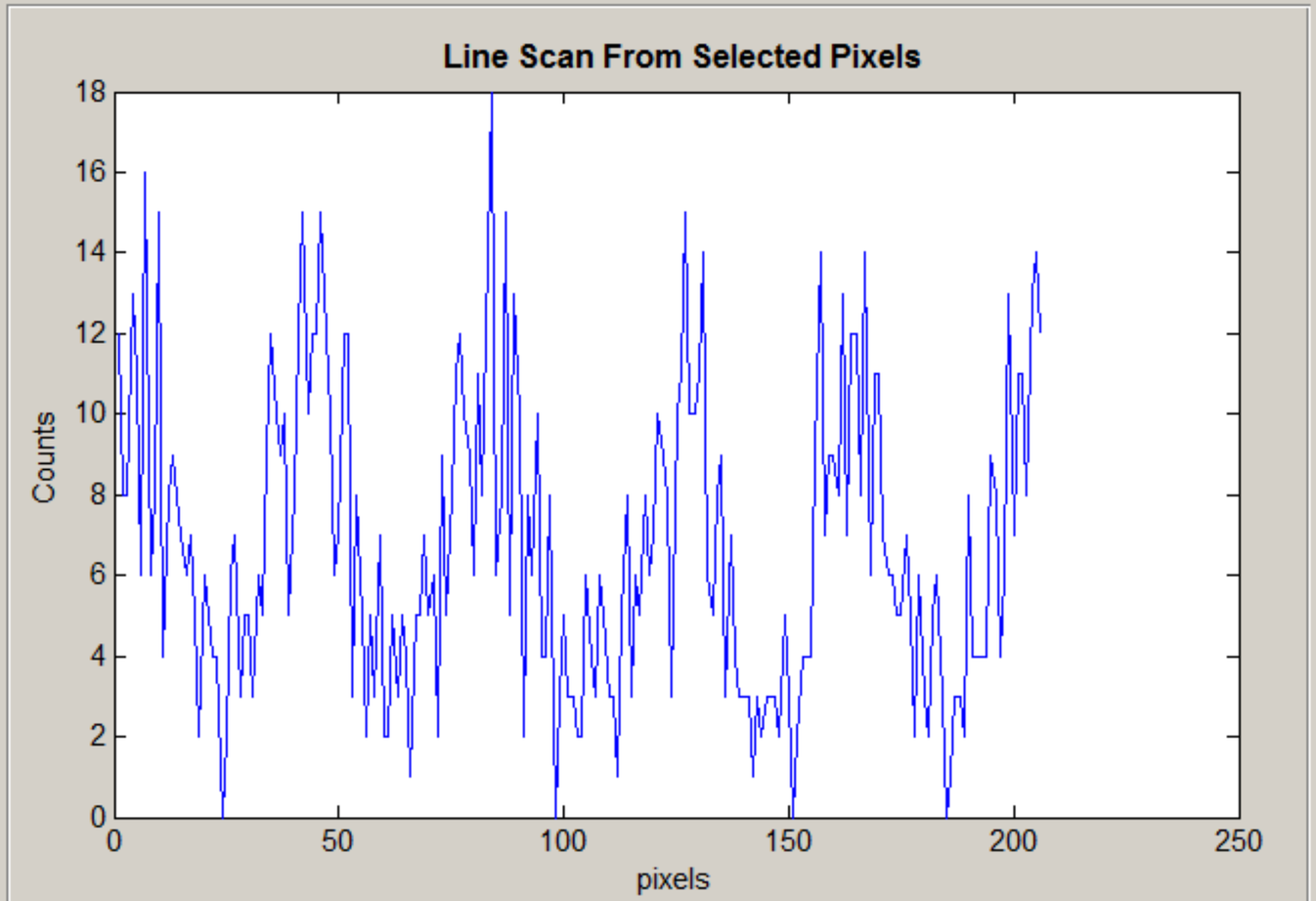
row #
1

min

Export LS Data

Peaks
41.04
42.01
42.04
43.02
43.05
44.02
44.06
45.00
45.03
46.04
47.01
47.05
50.01
51.02
52.03
53.04
54.01

Layer
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82



The line scan image can be saved or the data can be exported to a file.

When you are done you can press 'Close'

Save Plot

Ext Plot

Export Data

Close

zcorrectorgui

File

Import BiF Data From Directory

Import Bif(6)

Import Bif3D

Import Data From Workspace

Load WS

Number of image layers: 95

Down binning or normalizing the data cannot be undone. You must reload the original data in order to restore the original matrix.

Downbin Data

Normalize Data

Adjust Total Counts Threshold Value

Work with Uncorrected Data

Overlay Tools

3D Tools

Color Overlay

2D Profiles

PCA Tools

Close

Data Being Displayed
Total_Counts

< ------ X ------ >

^ | Y | v

Layer number: 1

0

Peak List

39.02
40.03

That ends this tutorial. Press the button on the left to go back to the previous step. Press the button on the right to start the tutorial over.

Please see the other zcorrectorgui tutorials for detailed information on how to use each function in the imagegui.

Initialize Corrected Data

Z corrected image XY

< ------ X ------ >

95

0

Layer number: 1

If you want to save the movie frames check this box before creating the movie.

Create XY Corr Slice Movie

Create XZ Corr Slice Movie

Create YZ Corr Slice Movie

^ | Z | v

< ------ X ------ >

0 column # 1 256

Thresholded total counts XZ

Z line XZ

Z corrected image XZ

Save Corr XZ

^ | Z | v

< ------ Y ------ >

0 row # 1 256

Thresholded total counts YZ

Z line YZ

Z corrected image YZ

Save Corr YZ