Bead 601 (Rejected)

Date : Mon Oct 17 13:28:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
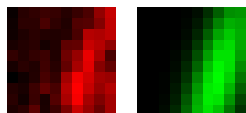Frame size : 10 pixels

Coordinates : 53.2 um (x), 95.5 um (y), 12.6 um (z)
Corresponding bead : Not found
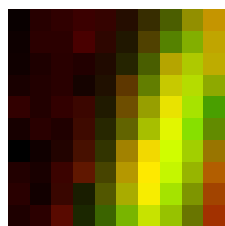Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	827 nm	855 nm	223 nm
max	3.3 um	3.41 um	223 nm
z	1.07 um	1.07 um	885 nm
Asymmetry	0.251		
Theta	73.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.813$

Parameters:
 A = 78.397   (brightness)
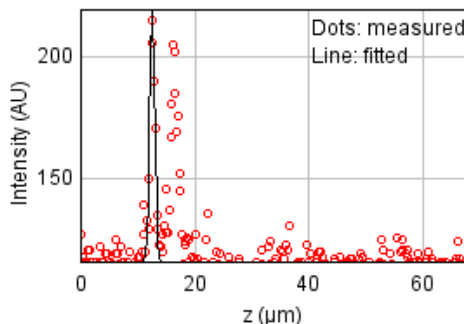 B = 115.818   (background)
 a = 0.181 px
 b = 0.051 px
 c = 0.028 px

xc = 6.907 px
yc = 6.112 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 53716.1287
Standard deviation: 13.22766
R^2: 0.42608
Parameters:
 a = 115.36094
 b = 221.19208
 c = 12.63185
 d = 0.45267

Bead 602 (Rejected)

Date : Mon Oct 17 13:28:25 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 139 um (x), 88.1 um (y), 13.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

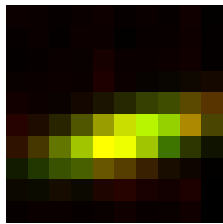| FWHM	Non corrected	Corrected	Theoretical
min	403 nm	417 nm	223 nm
max	1.27 um	1.31 um	223 nm
z	2.04 um	2.05 um	885 nm
Asymmetry	0.319		
Theta	14.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
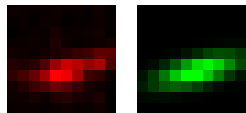
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   $R^2 = 0.936$

Parameters:
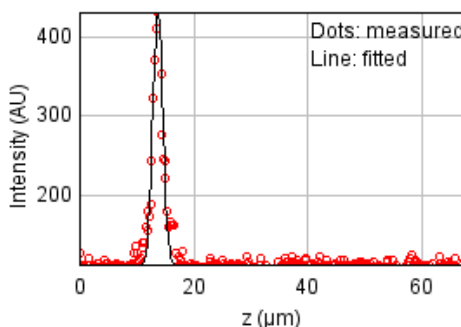 A = 325.258   (brightness)
 B = 116.569   (background)
 a = 0.129 px
 b = 0.177 px
 c = 0.781 px

xc = 5.092 px
yc = 5.564 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 37590.9696
Standard deviation: 11.06554
R^2: 0.94737
Parameters:
 a = 112.66242
 b = 430.99873
 c = 13.78068
 d = 0.86819

Bead 603

Date : Mon Oct 17 13:28:26 PDT 2022
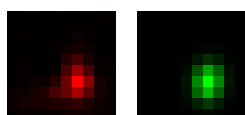Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -42.0 um (x), 82.9 um (y), 14.6 um (z)
Corresponding bead : Not found

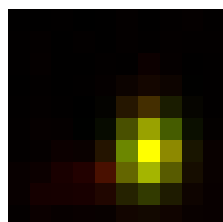| FWHM	Non corrected	Corrected	Theoretical
min	459 nm	474 nm	223 nm
max	581 nm	601 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.789		
Theta	82.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.946$

Parameters:
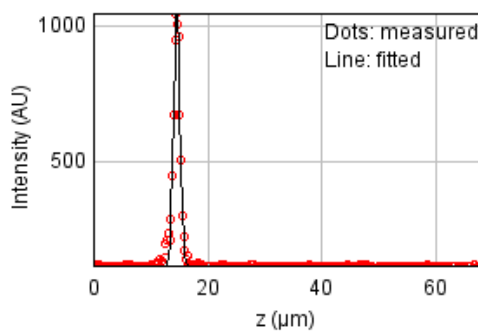 A = 828.642   (brightness)
 B = 127.281   (background)
 a = 0.634 px
 b = 0.031 px
 c = 0.401 px

xc = 6.001 px
yc = 6.068 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47362.9129
Standard deviation: 12.42081
R^2: 0.98822
Parameters:
 a = 115.55348
 b = 1063.18229
 c = 14.63609
 d = 0.56594

Bead 604 (Rejected)

Date : Mon Oct 17 13:28:26 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -82.4 um (x), 26.7 um (y), 10.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

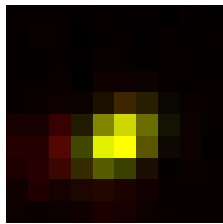| FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	551 nm	570 nm	223 nm
z	3.5 um	3.51 um	885 nm
Asymmetry	0.697		
Theta	32.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
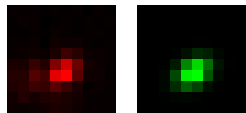
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.930$

Parameters:
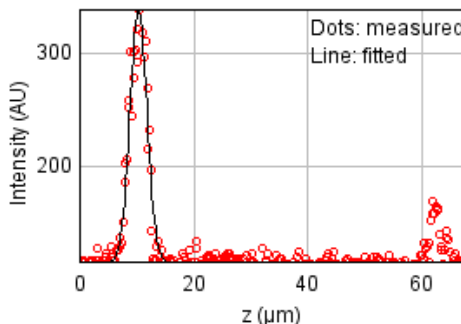 A = 671.403   (brightness)
 B = 131.847   (background)
 a = 0.574 px
 b = 0.210 px
 c = 0.774 px

xc = 4.660 px
yc = 5.702 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 47402.2685
Standard deviation: 12.42597
R^2: 0.92051
Parameters:
 a = 115.96712
 b = 338.94482
 c = 10.39533
 d = 1.48595

Bead 605

Date : Mon Oct 17 13:28:26 PDT 2022
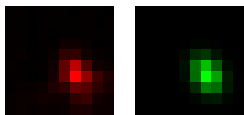Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 18.3 um (x), -8.54 um (y), 14.6 um (z)
Corresponding bead : Not found

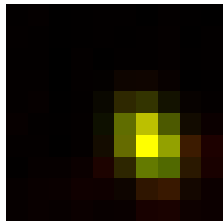| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	567 nm	586 nm	223 nm
z	1.89 um	1.9 um	885 nm
Asymmetry	0.741		
Theta	-58.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.955$

Parameters:
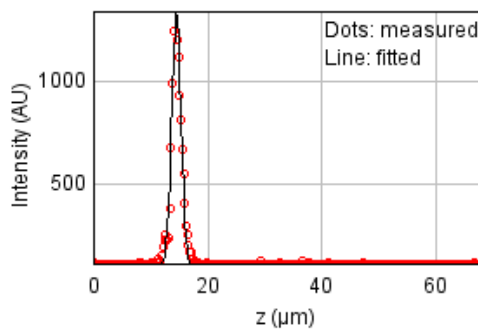 A = 1200.183   (brightness)
 B = 135.532   (background)
 a = 0.667 px
 b = -0.153 px
 c = 0.510 px

xc = 6.112 px
yc = 5.813 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 188677.021
Standard deviation: 24.79079
R^2: 0.98030
Parameters:
 a = 113.94245
 b = 1345.06330
 c = 14.57668
 d = 0.80271

Bead 606

Date : Mon Oct 17 13:28:26 PDT 2022
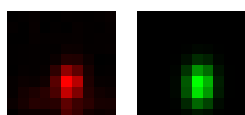Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -20.4 um (x), -27.6 um (y), 14.1 um (z)
Corresponding bead : Not found

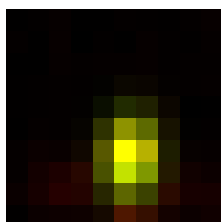| FWHM	Non corrected	Corrected	Theoretical
min	434 nm	448 nm	223 nm
max	632 nm	653 nm	223 nm
z	1.97 um	1.98 um	885 nm
Asymmetry	0.686		
Theta	87.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  R^2 = 0.940

Parameters:
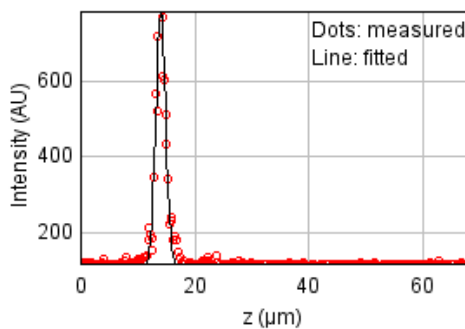 A = 671.638   (brightness)
 B = 127.243   (background)
 a = 0.713 px
 b = 0.017 px
 c = 0.337 px

xc = 5.237 px
yc = 6.306 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 93137.5978
Standard deviation: 17.41780
R^2: 0.96889
Parameters:
 a = 115.96933
 b = 786.39612
 c = 14.12171
 d = 0.83777

Bead 607

Date : Mon Oct 17 13:28:26 PDT 2022
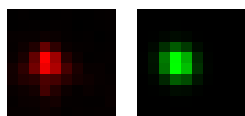Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -13.6 um (x), -45.0 um (y), 35.2 um (z)
Corresponding bead : Not found

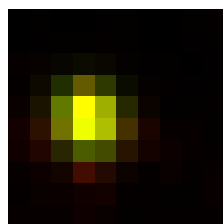| FWHM	Non corrected	Corrected	Theoretical
min	483 nm	499 nm	223 nm
max	523 nm	541 nm	223 nm
z	1.33 um	1.34 um	885 nm
Asymmetry	0.923		
Theta	-57.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.962$

Parameters:
A = 1157.619   (brightness)
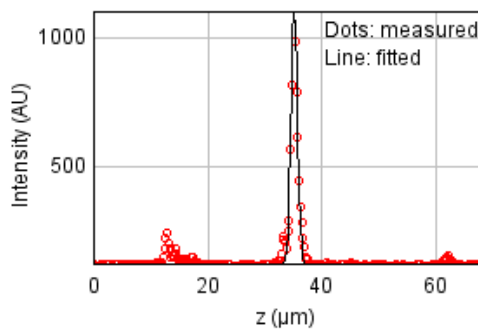B = 131.646   (background)
a = 0.551 px
b = -0.038 px
c = 0.514 px

xc = 3.204 px
yc = 4.526 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 174928.967
Standard deviation: 23.87051
R^2: 0.96054
Parameters:
a = 121.19066
b = 1102.91754
c = 35.21891
d = 0.56504

Bead 608 (Rejected)

Date : Mon Oct 17 13:28:26 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
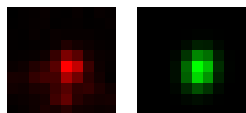
Coordinates : -40.6 um (x), -46.0 um (y), 14.0 um (z)
Corresponding bead : Not found
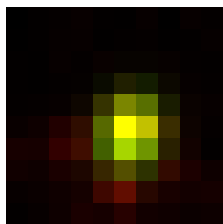Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	474 nm	490 nm	223 nm
max	580 nm	599 nm	223 nm
z	1.68 um	1.69 um	885 nm
Asymmetry	0.818		
Theta	77.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.866$

Parameters:
 A = 698.014   (brightness)
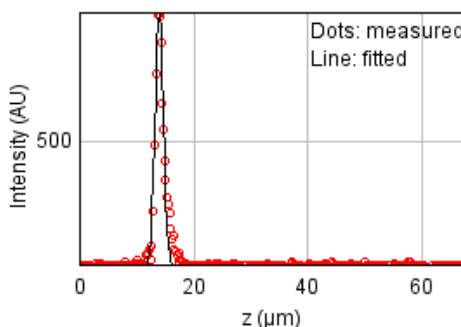 B = 139.629   (background)
 a = 0.586 px
 b = 0.043 px
 c = 0.409 px

xc = 5.241 px
yc = 5.259 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 164850.035
Standard deviation: 23.17263
R^2: 0.95365
Parameters:
 a = 115.75907
 b = 898.63038
 c = 14.02232
 d = 0.71360

Bead 609

Date : Mon Oct 17 13:28:26 PDT 2022
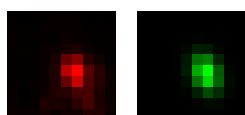Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 34.7 um (x), -46.9 um (y), 13.9 um (z)
Corresponding bead : Not found

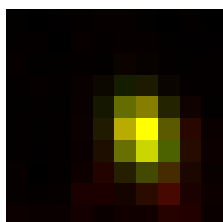| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.715		
Theta	-68.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.935$

Parameters:
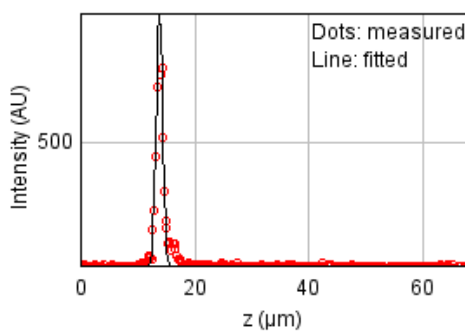 A = 842.933   (brightness)
 B = 132.057   (background)
 a = 0.719 px
 b = -0.127 px
 c = 0.442 px

xc = 5.819 px
yc = 5.248 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 85058.9340
Standard deviation: 16.64527
R^2: 0.96987
Parameters:
 a = 115.27754
 b = 904.75636
 c = 13.87450
 d = 0.56169

Bead 610
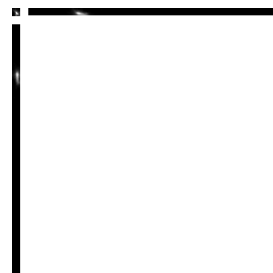
Date : Mon Oct 17 13:28:26 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 95.1 um (x), -51.5 um (y), 13.7 um (z)
Corresponding bead : Not found

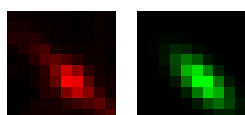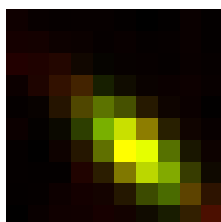| FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	1.0 um	1.04 um	223 nm
z	1.54 um	1.55 um	885 nm
Asymmetry	0.431		
Theta	-43.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.935$

Parameters:
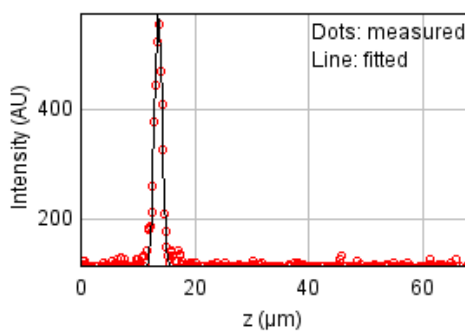 A = 481.843   (brightness)
 B = 126.721   (background)
 a = 0.407 px
 b = -0.291 px
 c = 0.441 px

xc = 5.476 px
yc = 5.959 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28260.7083
Standard deviation: 9.59450
R^2: 0.97480
Parameters:
 a = 114.12136
 b = 577.63700
 c = 13.67460
 d = 0.65395

Bead 611

Date : Mon Oct 17 13:28:26 PDT 2022
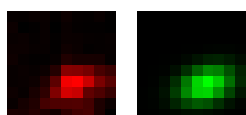Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 27.2 um (x), -59.9 um (y), 10.7 um (z)
Corresponding bead : Not found

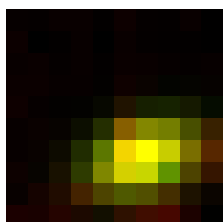| FWHM	Non corrected	Corrected	Theoretical
min	554 nm	572 nm	223 nm
max	873 nm	903 nm	223 nm
z	2.19 um	2.2 um	885 nm
Asymmetry	0.634		
Theta	18.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.937$

Parameters:
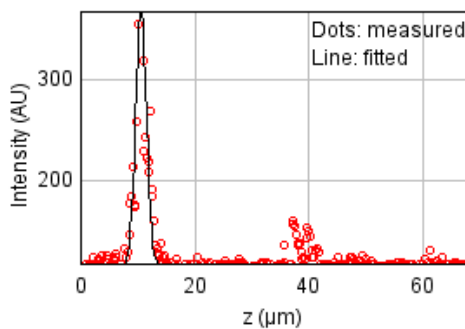A = 367.028   (brightness)
B = 119.134   (background)
a = 0.202 px
b = 0.078 px
c = 0.412 px

xc = 5.833 px
yc = 6.314 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 85582.5790
Standard deviation: 16.69643
R^2: 0.84355
Parameters:
a = 115.68532
b = 369.87481
c = 10.67420
d = 0.93189

Bead 612

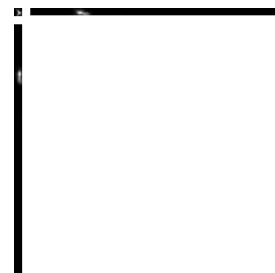Date : Mon Oct 17 13:28:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 87.5 um (x), -67.9 um (y), 13.4 um (z)
Corresponding bead : Not found

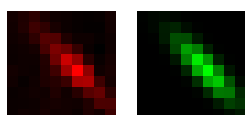| FWHM	Non corrected	Corrected	Theoretical
min	374 nm	387 nm	223 nm
max	1.31 um	1.35 um	223 nm
z	1.93 um	1.94 um	885 nm
Asymmetry	0.286		
Theta	-47.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.955$
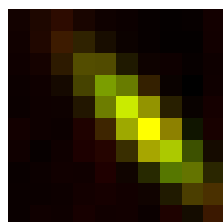
Parameters:
 A = 315.249   (brightness)
 B = 121.711   (background)
 a = 0.549 px
 b = -0.439 px
 c = 0.487 px

xc = 5.728 px
yc = 4.815 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23669.6935
Standard deviation: 8.78066
R^2: 0.96934
Parameters:
 a = 112.32951
 b = 456.65363
 c = 13.43842
 d = 0.81861

Bead 613 (Rejected)

Date : Mon Oct 17 13:28:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

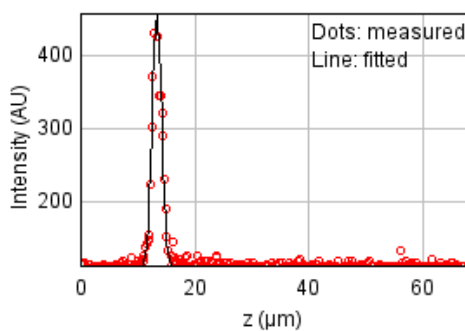Coordinates : -6.72 um (x), -78.3 um (y), 14.0 um (z)
Corresponding bead : Not found
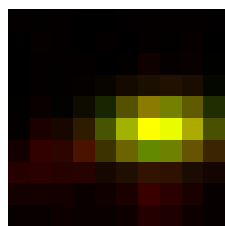Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	445 nm	460 nm	223 nm
max	851 nm	880 nm	223 nm
z	2.55 um	2.56 um	885 nm
Asymmetry	0.522		
Theta	2.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
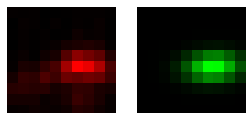
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.909$

Parameters:
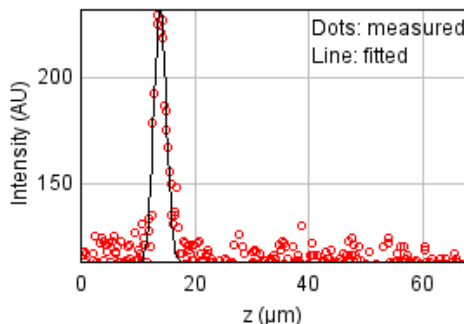 A = 470.469   (brightness)
 B = 135.195   (background)
 a = 0.186 px
 b = 0.023 px
 c = 0.678 px

xc = 6.465 px
yc = 5.022 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17150.7996
Standard deviation: 7.47434
R^2: 0.87083
Parameters:
 a = 113.56720
 b = 232.10672
 c = 14.00167
 d = 1.08270

Bead 614 (Rejected)

Date : Mon Oct 17 13:28:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 40.0 um (x), -81.7 um (y), 6.79 um (z)
Corresponding bead : Not found
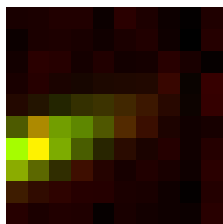Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	426 nm	223 nm
max	1.51 um	1.56 um	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.274		
Theta	20.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
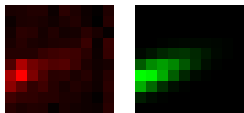
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.834$

Parameters:
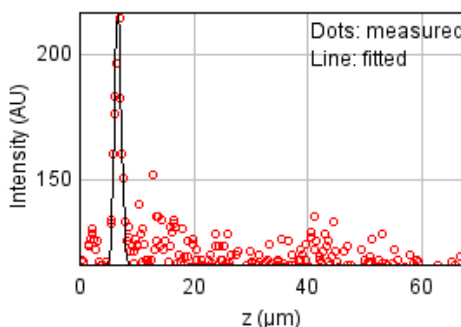 A = 92.974   (brightness)
 B = 118.064   (background)
 a = 0.146 px
 b = 0.236 px
 c = 0.702 px

xc = -0.070 px
yc = 6.255 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20428.1324
Standard deviation: 8.15728
R^2: 0.69663
Parameters:
 a = 116.24769
 b = 217.10550
 c = 6.79422
 d = 0.59062

Bead 615

Date : Mon Oct 17 13:28:27 PDT 2022
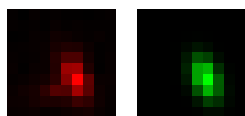Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -57.7 um (x), 91.5 um (y), 14.6 um (z)
Corresponding bead : Not found

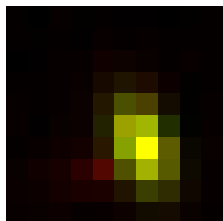| FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	685 nm	708 nm	223 nm
z	1.33 um	1.33 um	885 nm
Asymmetry	0.596		
Theta	-69.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
R^2 = 0.943

Parameters:
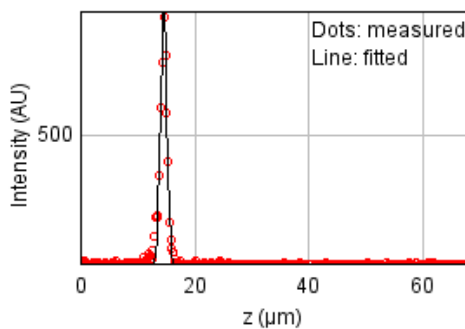A = 771.736   (brightness)
B = 132.792   (background)
a = 0.743 px
b = -0.171 px
c = 0.350 px

xc = 5.781 px
yc = 5.878 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51254.7597
Standard deviation: 12.92105
R^2: 0.98038
Parameters:
a = 115.09095
b = 877.62492
c = 14.62026
d = 0.56341

Bead 616 (Rejected)

Date : Mon Oct 17 13:28:27 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 60.8 um (x), 64.3 um (y), 12.3 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

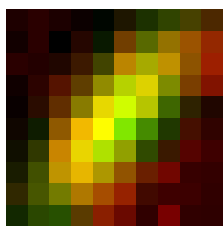| FWHM	Non corrected	Corrected	Theoretical
min	671 nm	694 nm	223 nm
max	1.8 um	1.86 um	223 nm
z	1.38 um	1.39 um	885 nm
Asymmetry	0.372		
Theta	52.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
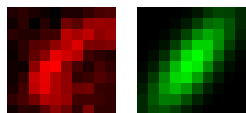
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.651$

Parameters:
 A = 84.164   (brightness)
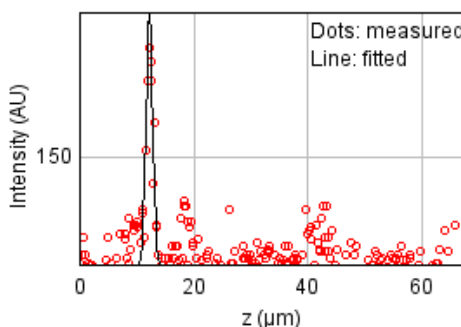 B = 126.743   (background)
 a = 0.201 px
 b = 0.124 px
 c = 0.138 px

 xc = 4.501 px
 yc = 4.619 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17171.8032
Standard deviation: 7.47892
R^2: 0.65252
Parameters:
 a = 114.24793
 b = 198.16243
 c = 12.30176
 d = 0.58638

Bead 617 (Rejected)

Date : Mon Oct 17 13:28:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
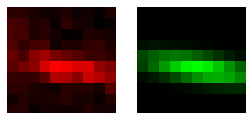Frame size : 10 pixels

Coordinates : 158 um (x), 37.6 um (y), 12.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

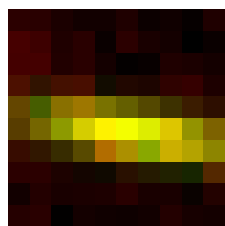| FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	1.8 um	1.86 um	223 nm
z	1.83 um	1.84 um	885 nm
Asymmetry	0.229		
Theta	-8.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.912$

Parameters:
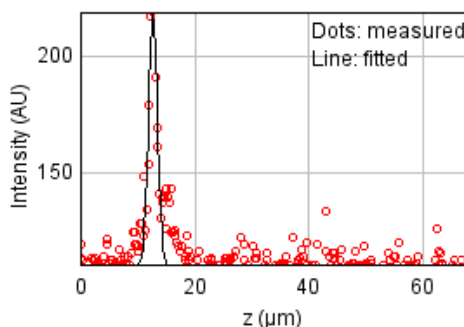A = 110.953   (brightness)
B = 114.821   (background)
a = 0.058 px
b = -0.110 px
c = 0.770 px

xc = 5.264 px
yc = 5.170 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18672.3750
Standard deviation: 7.79885
R^2: 0.79032
Parameters:
a = 110.64983
b = 218.95955
c = 12.75054
d = 0.77618

Bead 618

Date : Mon Oct 17 13:28:28 PDT 2022
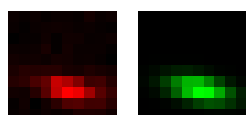Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 108 um (x), 21.6 um (y), 13.6 um (z)
Corresponding bead : Not found

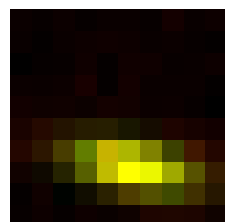| FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	969 nm	1.0 um	223 nm
z	2.46 um	2.47 um	885 nm
Asymmetry	0.395		
Theta	-11.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
R^2 = 0.968

Parameters:
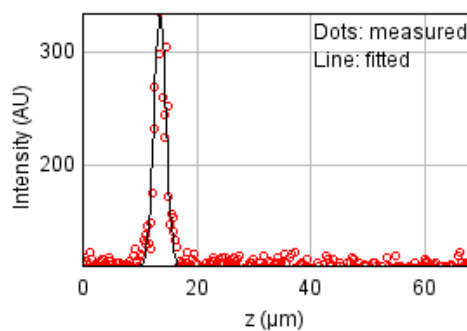A = 345.173 (brightness)
B = 118.130 (background)
a = 0.174 px
b = -0.152 px
c = 0.885 px

xc = 5.164 px
yc = 6.720 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40491.7261
Standard deviation: 11.48455
R^2: 0.90635
Parameters:
a = 111.74006
b = 333.56819
c = 13.63392
d = 1.04574

Bead 619

Date : Mon Oct 17 13:28:28 PDT 2022
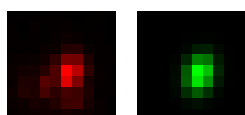Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -56.7 um (x), 18.6 um (y), 14.5 um (z)
Corresponding bead : Not found

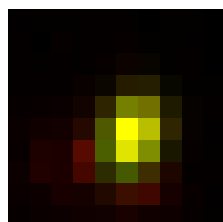| FWHM	Non corrected	Corrected	Theoretical
min	438 nm	452 nm	223 nm
max	594 nm	614 nm	223 nm
z	1.55 um	1.56 um	885 nm
Asymmetry	0.737		
Theta	73.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.905$

Parameters:
 A = 878.542 (brightness)
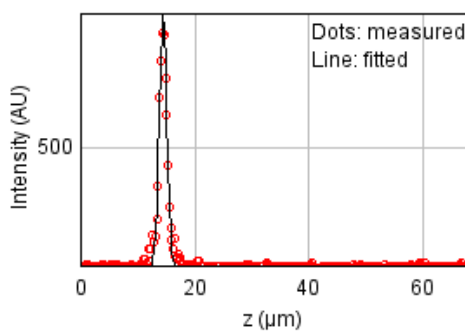 B = 141.742 (background)
 a = 0.674 px
 b = 0.088 px
 c = 0.408 px

xc = 5.242 px
yc = 5.300 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 69929.2132
Standard deviation: 15.09246
R^2: 0.97996
Parameters:
 a = 115.54943
 b = 932.74481
 c = 14.51776
 d = 0.65834

Bead 620

Date : Mon Oct 17 13:28:28 PDT 2022
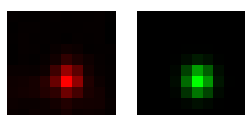Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -36.5 um (x), -2.83 um (y), 14.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	449 nm	223 nm
max	461 nm	476 nm	223 nm
z	1.68 um	1.68 um	885 nm
Asymmetry	0.943		
Theta	84.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   R^2 = 0.970
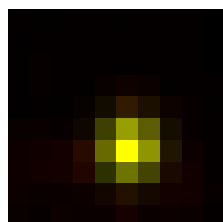
Parameters:
 A = 990.700   (brightness)
 B = 128.589   (background)
 a = 0.710 px
 b = 0.007 px
 c = 0.633 px

xc = 5.120 px
yc = 5.881 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 123712.817
Standard deviation: 20.07420
R^2: 0.97689
Parameters:
 a = 114.68486
 b = 1087.48891
 c = 14.87350
 d = 0.71257

Bead 621

Date : Mon Oct 17 13:28:28 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

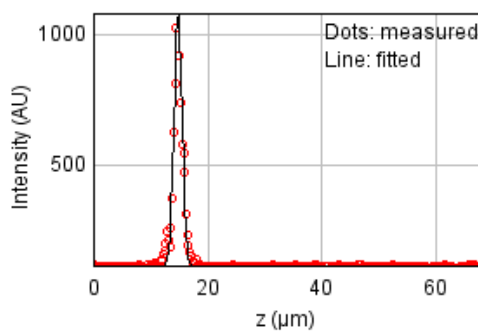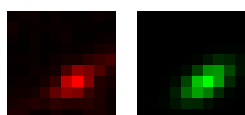Coordinates : -143 um (x), -26.0 um (y), 13.6 um (z)
Corresponding bead : Not found

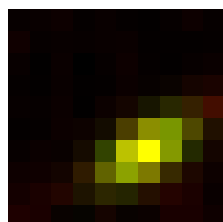| FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	787 nm	813 nm	223 nm
z	1.5 um	1.51 um	885 nm
Asymmetry	0.508		
Theta	32.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.947$

Parameters:
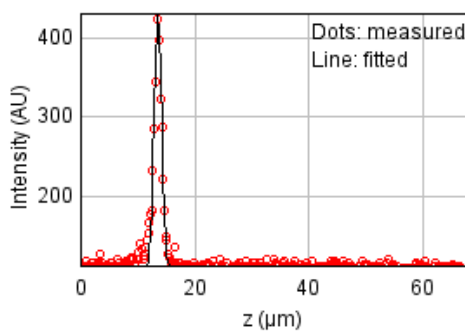 A = 341.867   (brightness)
 B = 118.195   (background)
 a = 0.394 px
 b = 0.282 px
 c = 0.664 px

xc = 5.844 px
yc = 6.005 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22903.0130
Standard deviation: 8.63728
R^2: 0.95649
Parameters:
 a = 111.96632
 b = 430.52060
 c = 13.61135
 d = 0.63710

Bead 622

Date : Mon Oct 17 13:28:28 PDT 2022
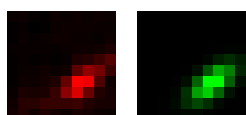Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -145 um (x), -32.2 um (y), 13.6 um (z)
Corresponding bead : Not found

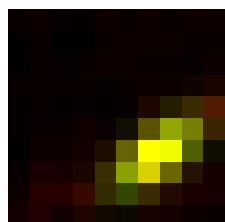| FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	798 nm	825 nm	223 nm
z	1.7 um	1.71 um	885 nm
Asymmetry	0.474		
Theta	37.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.952$

Parameters:
 A = 340.510   (brightness)
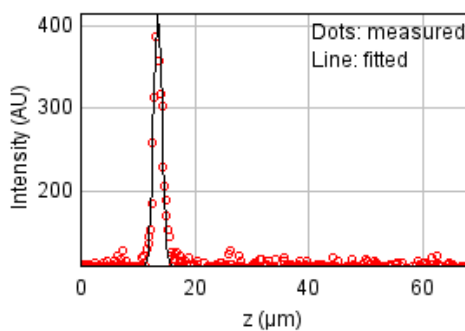 B = 114.604   (background)
 a = 0.484 px
 b = 0.352 px
 c = 0.664 px

xc = 6.391 px
yc = 6.137 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22999.7742
Standard deviation: 8.65551
R^2: 0.95764
Parameters:
 a = 110.01534
 b = 414.66723
 c = 13.59667
 d = 0.72261

Bead 623

Date : Mon Oct 17 13:28:28 PDT 2022
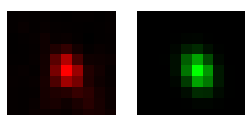Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 60.5 um (x), -50.2 um (y), 14.3 um (z)
Corresponding bead : Not found

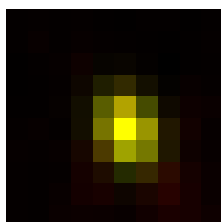| FWHM	Non corrected	Corrected	Theoretical
min	433 nm	447 nm	223 nm
max	580 nm	599 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.746		
Theta	-66.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.967$

Parameters:
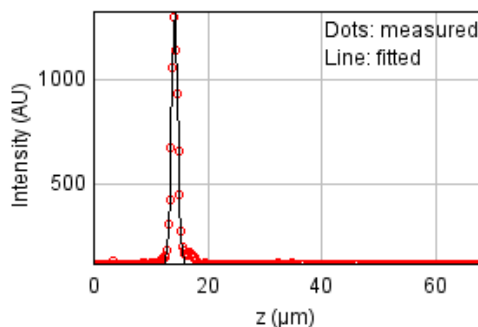A = 1199.188   (brightness)
B = 136.990   (background)
a = 0.665 px
b = -0.117 px
c = 0.451 px

xc = 5.100 px
yc = 5.026 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55315.1834
Standard deviation: 13.42311
R^2: 0.99121
Parameters:
a = 113.68069
b = 1322.62080
c = 14.27358
d = 0.54524

Bead 624 (Rejected)

Date : Mon Oct 17 13:28:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 147 um (x), -53.1 um (y), 60.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

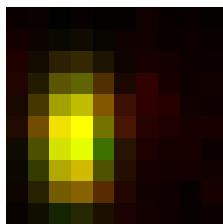| FWHM	Non corrected	Corrected	Theoretical
min	539 nm	557 nm	223 nm
max	930 nm	961 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.579		
Theta	88.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
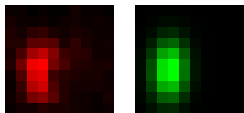
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.945$

Parameters:
 A = 370.464   (brightness)
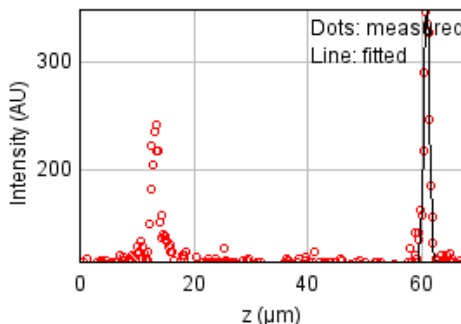 B = 127.748   (background)
 a = 0.462 px
 b = 0.009 px
 c = 0.155 px

xc = 2.635 px
yc = 5.507 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 104057.702
Standard deviation: 18.41060
R^2: 0.66969
Parameters:
 a = 115.29575
 b = 349.24959
 c = 60.87558
 d = 0.49103

Bead 625

Date : Mon Oct 17 13:28:29 PDT 2022
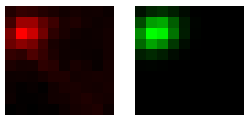Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 55.5 um (x), -70.2 um (y), 14.3 um (z)
Corresponding bead : Not found

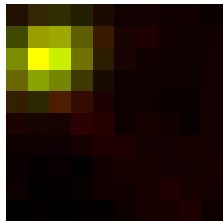| FWHM	Non corrected	Corrected	Theoretical
min	520 nm	538 nm	223 nm
max	665 nm	688 nm	223 nm
z	2.15 um	2.15 um	885 nm
Asymmetry	0.783		
Theta	23.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.947$

Parameters:
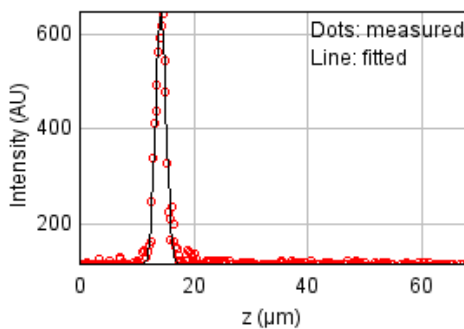A = 564.797   (brightness)
B = 152.723   (background)
a = 0.333 px
b = 0.069 px
c = 0.466 px

xc = 1.405 px
yc = 1.958 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55214.9529
Standard deviation: 13.41094
R^2: 0.97307
Parameters:
 a = 113.97243
 b = 648.19024
 c = 14.30701
 d = 0.91108

Bead 626 (Rejected)

Date : Mon Oct 17 13:28:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 121 um (x), -89.3 um (y), 60.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

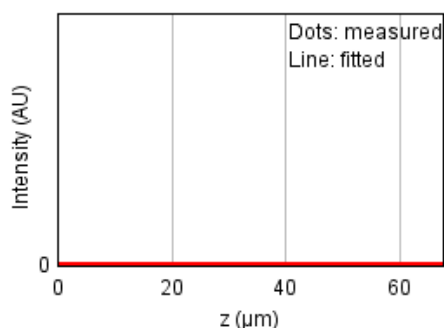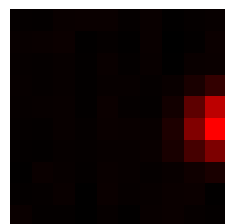## XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 0.00000E0
Standard deviation: 0.00000E0
R^2: 0.00000
Parameters:
 a = 0.00000E0
 b = 0.00000E0
 c = -0.11115
 d = 0.11151

Bead 627 (Rejected)

Date : Mon Oct 17 13:28:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
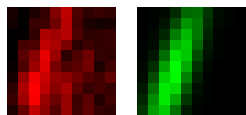Frame size : 10 pixels

Coordinates : 53.2 um (x), 95.5 um (y), 12.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

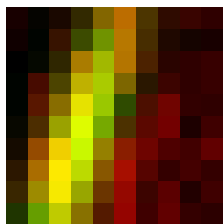| FWHM	Non corrected	Corrected	Theoretical
min	534 nm	552 nm	223 nm
max	2.57 um	2.65 um	223 nm
z	1.07 um	1.07 um	885 nm
Asymmetry	0.208		
Theta	71.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.684$

Parameters:
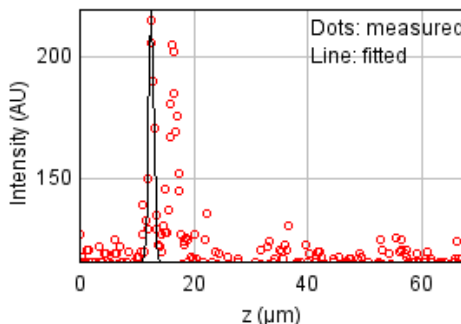 A = 68.043   (brightness)
 B = 134.414   (background)
 a = 0.427 px
 b = 0.133 px
 c = 0.064 px

xc = 2.758 px
yc = 5.894 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 53716.1287
Standard deviation: 13.22766
R^2: 0.42608
Parameters:
 a = 115.36094
 b = 221.19208
 c = 12.63185
 d = 0.45267

Bead 628

Date : Mon Oct 17 13:28:29 PDT 2022
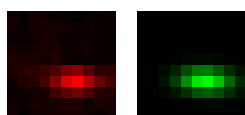Origin : data_traditional.tif   (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 119 um (x), 45.6 um (y), 14.4 um (z)
Corresponding bead : Not found

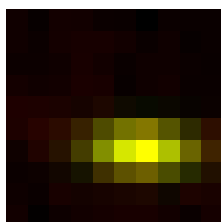| FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	844 nm	872 nm	223 nm
z	2.15 um	2.16 um	885 nm
Asymmetry	0.464		
Theta	-2.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

   $R^2 = 0.963$

   Parameters:
   A = 308.926   (brightness)
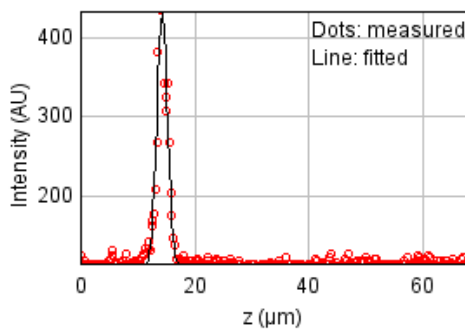   B = 119.301   (background)
   a = 0.190 px
   b = -0.029 px
   c = 0.876 px

xc = 5.750 px
yc = 5.928 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 34513.0712
Standard deviation: 10.60285
R^2: 0.95480
Parameters:
 a = 112.51348
 b = 435.25085
 c = 14.37349
 d = 0.91234

Bead 629 (Rejected)

Date : Mon Oct 17 13:28:29 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
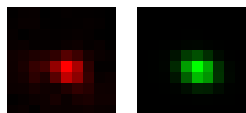Frame size : 10 pixels

Coordinates : -56.5 um (x), 18.4 um (y), 16.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

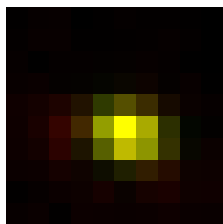| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.737		
Theta	-15.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.954$

Parameters:
 A = 533.201   (brightness)
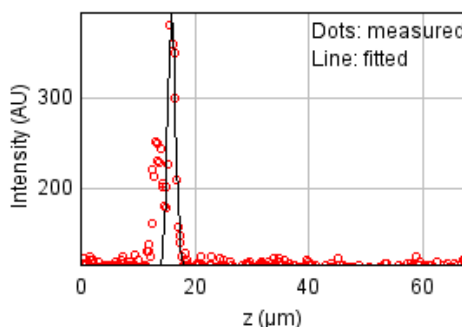 B = 124.413   (background)
 a = 0.446 px
 b = -0.092 px
 c = 0.748 px

xc = 5.106 px
yc = 5.301 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 141720.319
Standard deviation: 21.48557
R^2: 0.74155
Parameters:
 a = 116.70904
 b = 393.85745
 c = 16.03418
 d = 0.68137

Bead 630

Date : Mon Oct 17 13:28:30 PDT 2022
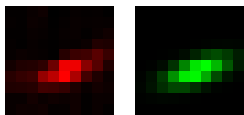Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -158 um (x), 3.63 um (y), 14.4 um (z)
Corresponding bead : Not found

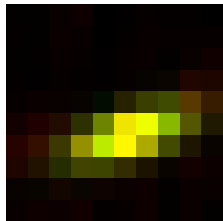| FWHM	Non corrected	Corrected	Theoretical
min	368 nm	381 nm	223 nm
max	983 nm	1.02 um	223 nm
z	2.38 um	2.39 um	885 nm
Asymmetry	0.375		
Theta	17.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.958$

Parameters:
 A = 475.183   (brightness)
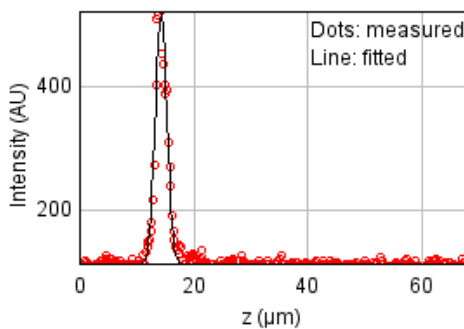 B = 117.894   (background)
 a = 0.219 px
 b = 0.249 px
 c = 0.910 px

 xc = 5.200 px
 yc = 5.490 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 52236.7827
Standard deviation: 13.04425
R^2: 0.96095
Parameters:
 a = 112.32589
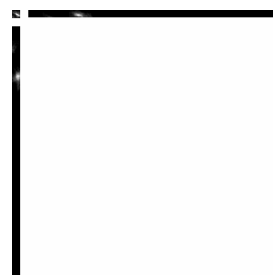 b = 520.52465
 c = 14.35743
 d = 1.01090

Bead 631

Date : Mon Oct 17 13:28:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 142 um (x), -24.5 um (y), 13.5 um (z)
Corresponding bead : Not found

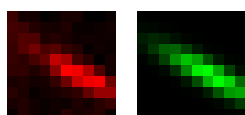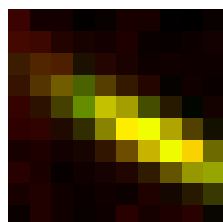| FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	1.71 um	1.77 um	223 nm
z	1.82 um	1.83 um	885 nm
Asymmetry	0.218		
Theta	-28.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.933$

Parameters:
 A = 154.448   (brightness)
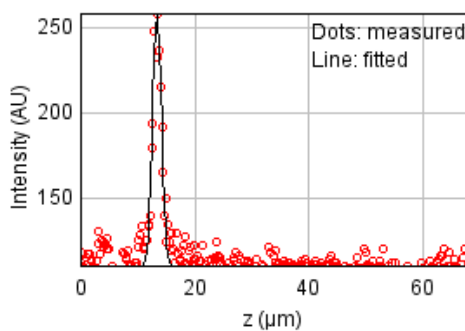 B = 119.319   (background)
 a = 0.255 px
 b = -0.386 px
 c = 0.761 px

 xc = 6.213 px
 yc = 5.378 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17676.4535
Standard deviation: 7.58802
R^2: 0.88075
Parameters:
 a = 110.80716
 b = 258.44507
 c = 13.45737
 d = 0.77484

Bead 632 (Rejected)

Date : Mon Oct 17 13:28:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 147 um (x), -53.1 um (y), 60.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

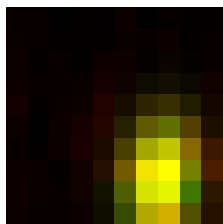| FWHM	Non corrected	Corrected	Theoretical
min	576 nm	595 nm	223 nm
max	954 nm	987 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.603		
Theta	84.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
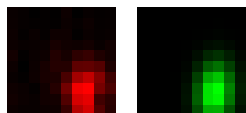
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.961$

Parameters:
 A = 375.196   (brightness)
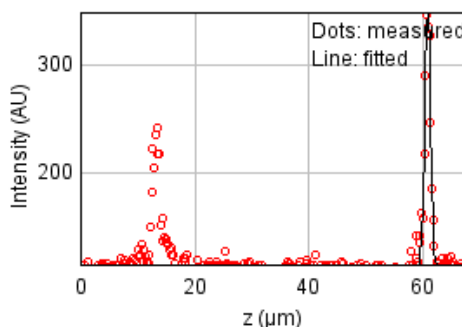 B = 113.823   (background)
 a = 0.403 px
 b = 0.023 px
 c = 0.150 px

xc = 6.623 px
yc = 7.421 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 104057.702
Standard deviation: 18.41060
R^2: 0.66969
Parameters:
 a = 115.29575
 b = 349.24959
 c = 60.87558
 d = 0.49103

Bead 633 (Rejected)

Date : Mon Oct 17 13:28:30 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
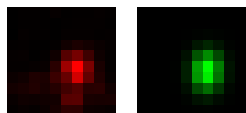
Coordinates : -29.5 um (x), -55.5 um (y), 14.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	476 nm	492 nm	223 nm
max	621 nm	642 nm	223 nm
z	1.37 um	1.37 um	885 nm
Asymmetry	0.766		
Theta	86.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.896$
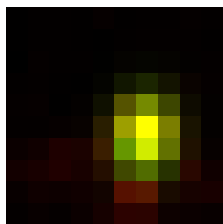
Parameters:
A = 847.263   (brightness)
B = 139.395   (background)
a = 0.592 px
b = 0.015 px
c = 0.349 px

xc = 5.893 px
yc = 5.389 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 125344.137
Standard deviation: 20.20612
R^2: 0.96888
Parameters:
a = 117.79254
b = 1045.21318
c = 14.27678
d = 0.58087

Bead 634 (Rejected)

Date : Mon Oct 17 13:28:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 81.6 um (x), -79.0 um (y), 50.8 um (z)
Corresponding bead : Not found
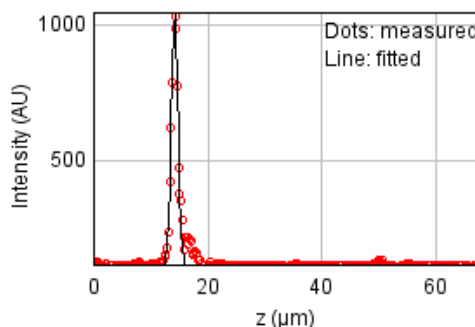Reason of rejection : R or C parameter off limits.

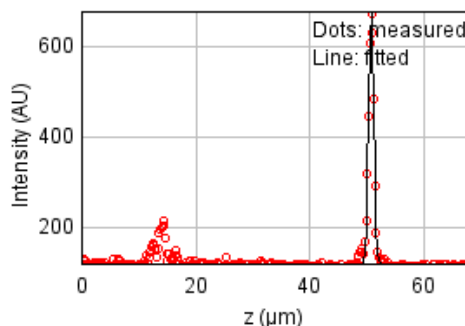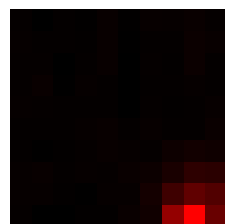| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.07 um	1.08 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 75537.2869
Standard deviation: 15.68597
R^2: 0.93690
Parameters:
 a = 117.24867
 b = 676.68633
 c = 50.82211
 d = 0.45566

Bead 635

Date : Mon Oct 17 13:28:31 PDT 2022
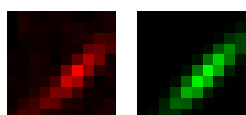Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -161 um (x), -85.9 um (y), 13.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	340 nm	351 nm	223 nm
max	1.42 um	1.47 um	223 nm
z	1.42 um	1.42 um	885 nm
Asymmetry	0.239		
Theta	44.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  $R^2 = 0.944$
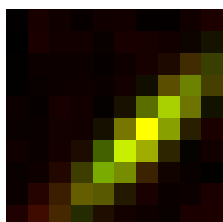
Parameters:
 A = 199.577   (brightness)
 B = 113.963   (background)
 a = 0.612 px
 b = 0.547 px
 c = 0.615 px

xc = 5.827 px
yc = 5.336 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24212.2324
Standard deviation: 8.88072
R^2: 0.92018
Parameters:
 a = 112.03245
 b = 355.65332
 c = 13.48724
 d = 0.60272

Bead 636

Date : Mon Oct 17 13:28:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -67.1 um (x), -93.5 um (y), 60.0 um (z)
Corresponding bead : Not found

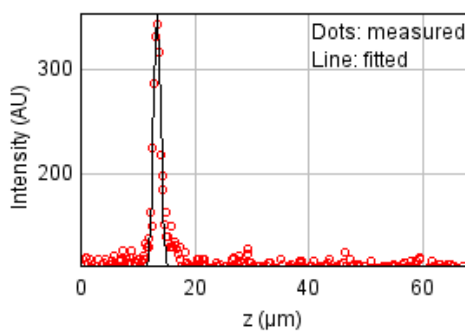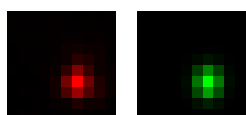| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.28 um	1.29 um	885 nm
Asymmetry	0.862		
Theta	87.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.981$
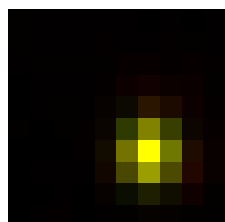
Parameters:
 A = 1578.204   (brightness)
 B = 128.439   (background)
 a = 0.778 px
 b = 0.009 px
 c = 0.579 px

xc = 6.011 px
yc = 6.083 px

Z profile & fitting parameters:
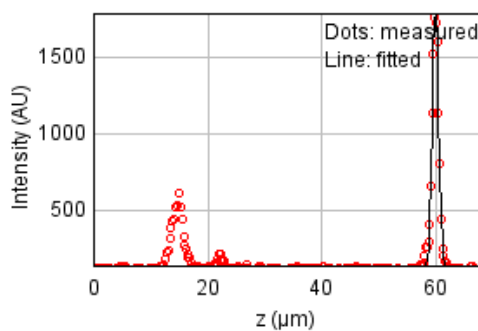
Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 1805398.11
Standard deviation: 76.68622
R^2: 0.86845
Parameters:
 a = 137.04132
 b = 1808.05475
 c = 59.96667
 d = 0.54536

Bead 637 (Rejected)

Date : Mon Oct 17 13:28:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 94.4 um (x), -95.9 um (y), 54.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

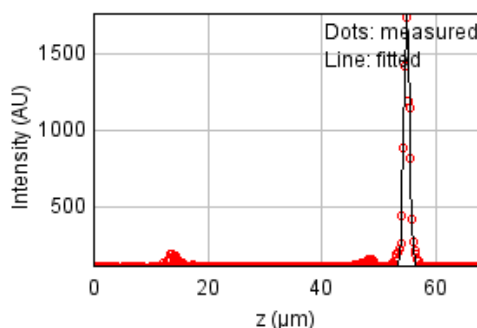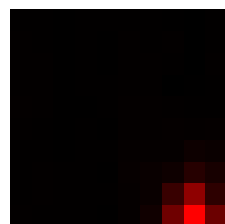| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 287282.069
Standard deviation: 30.59039
R^2: 0.97393
Parameters:
 a = 120.64855
 b = 1770.16841
 c = 54.93556
 d = 0.50283

Bead 638

Date : Mon Oct 17 13:28:31 PDT 2022
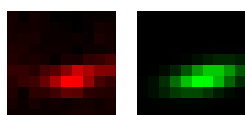Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 143 um (x), 88.1 um (y), 14.1 um (z)
Corresponding bead : Not found

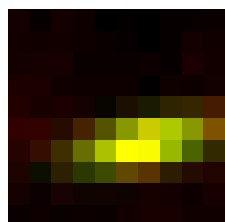| FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	1.08 um	1.11 um	223 nm
z	1.98 um	1.98 um	885 nm
Asymmetry	0.355		
Theta	11.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.938$

Parameters:
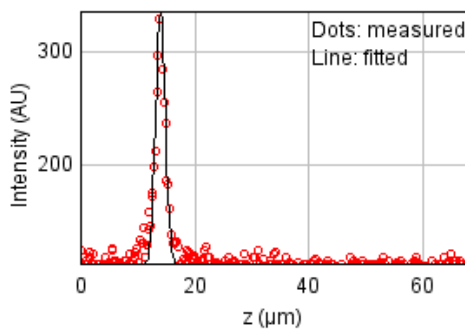 A = 266.925   (brightness)
 B = 117.574   (background)
 a = 0.147 px
 b = 0.154 px
 c = 0.890 px

xc = 5.804 px
yc = 5.653 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21922.8690
Standard deviation: 8.45044
R^2: 0.93577
Parameters:
 a = 112.49062
 b = 334.73078
 c = 14.07603
 d = 0.83956

Bead 639 (Rejected)

Date : Mon Oct 17 13:28:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 158 um (x), 37.5 um (y), 13.0 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

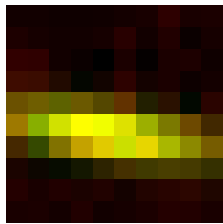| FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	1.71 um	1.77 um	223 nm
z	1.71 um	1.72 um	885 nm
Asymmetry	0.244		
Theta	-8.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
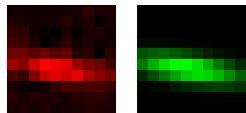
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.946$

Parameters:
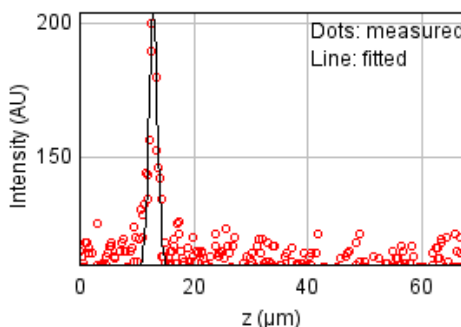 A = 133.933   (brightness)
 B = 111.215   (background)
 a = 0.063 px
 b = -0.110 px
 c = 0.756 px

xc = 4.140 px
yc = 5.366 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15397.2238
Standard deviation: 7.08194
R^2: 0.76147
Parameters:
 a = 110.26626
 b = 203.74498
 c = 12.96476
 d = 0.72576

Bead 640

Date : Mon Oct 17 13:28:31 PDT 2022
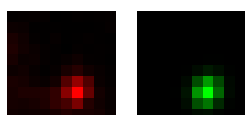Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -54.6 um (x), -1.74 um (y), 15.5 um (z)
Corresponding bead : Not found

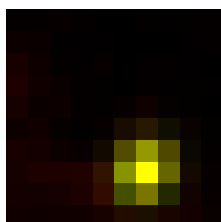| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	473 nm	488 nm	223 nm
z	1.7 um	1.71 um	885 nm
Asymmetry	0.879		
Theta	59.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
    $R^2 = 0.937$

Parameters:
 A = 909.081   (brightness)
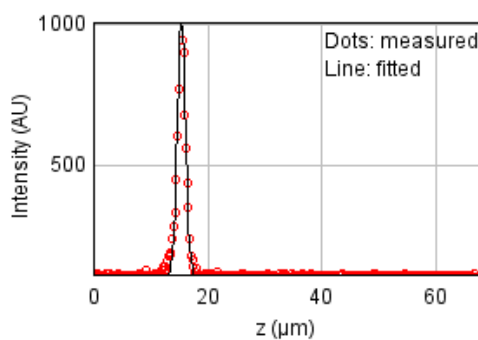 B = 141.521   (background)
 a = 0.732 px
 b = 0.078 px
 c = 0.648 px

xc = 5.886 px
yc = 6.909 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 62021.6365
Standard deviation: 14.21355
R^2: 0.98636
Parameters:
 a = 114.32977
 b = 1008.21184
 c = 15.45965
 d = 0.72387

Bead 641 (Rejected)

Date : Mon Oct 17 13:28:31 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -23.1 um (x), -7.04 um (y), 36.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

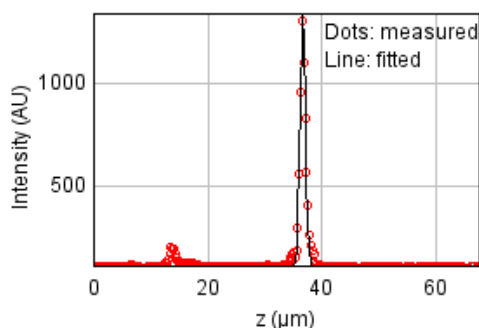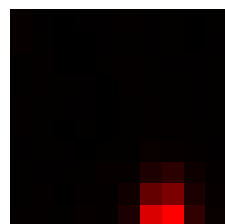| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.13 um	1.14 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 138301.390
Standard deviation: 21.22482
R^2: 0.97589
Parameters:
 a = 118.08023
 b = 1335.65281
 c = 36.72091
 d = 0.48075

Bead 642

Date : Mon Oct 17 13:28:32 PDT 2022
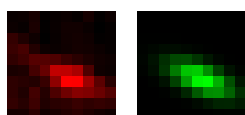Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 127 um (x), -7.43 um (y), 14.5 um (z)
Corresponding bead : Not found

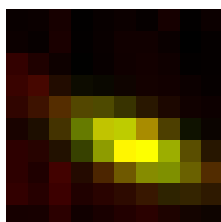| FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	1.05 um	1.09 um	223 nm
z	1.86 um	1.87 um	885 nm
Asymmetry	0.417		
Theta	-23.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.903$

Parameters:
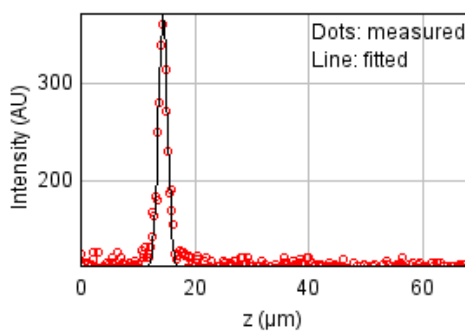A = 266.163   (brightness)
B = 126.094   (background)
a = 0.211 px
b = -0.209 px
c = 0.602 px

xc = 5.371 px
yc = 5.781 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20138.0738
Standard deviation: 8.09916
R^2: 0.95365
Parameters:
 a = 111.84902
 b = 372.24758
 c = 14.50479
 d = 0.79123

Bead 643

Date : Mon Oct 17 13:28:32 PDT 2022
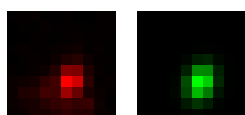Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -56.2 um (x), -27.3 um (y), 14.6 um (z)
Corresponding bead : Not found

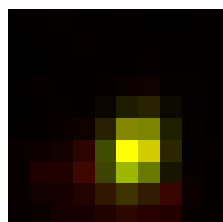| FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	551 nm	569 nm	223 nm
z	1.68 um	1.68 um	885 nm
Asymmetry	0.764		
Theta	70.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.914$

Parameters:
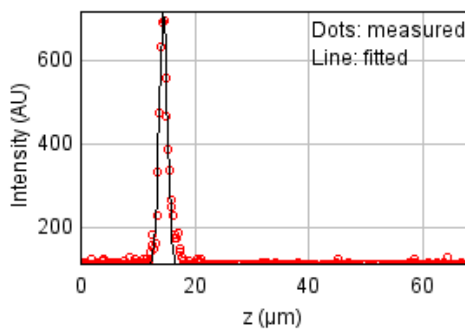A = 679.420   (brightness)
B = 131.489   (background)
a = 0.721 px
b = 0.100 px
c = 0.478 px

xc = 5.334 px
yc = 6.088 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 73099.4986
Standard deviation: 15.43078
R^2: 0.96497
Parameters:
a = 114.52241
b = 718.42040
c = 14.56143
d = 0.71186

Bead 644

Date : Mon Oct 17 13:28:32 PDT 2022
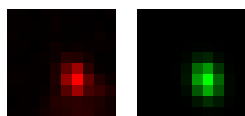Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 32.7 um (x), -32.1 um (y), 14.5 um (z)
Corresponding bead : Not found

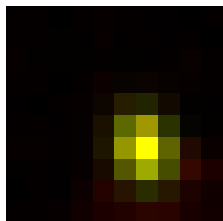| FWHM	Non corrected	Corrected	Theoretical
min	422 nm	436 nm	223 nm
max	547 nm	566 nm	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.771		
Theta	-75.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   $R^2 = 0.942$

Parameters:
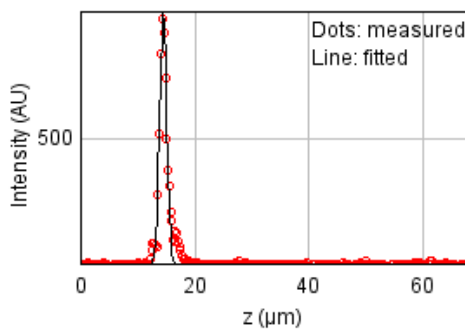 A = 726.949   (brightness)
 B = 128.353   (background)
 a = 0.735 px
 b = -0.072 px
 c = 0.466 px

xc = 5.862 px
yc = 6.037 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 110221.144
Standard deviation: 18.94800
R^2: 0.96364
Parameters:
 a = 116.12051
 b = 893.02079
 c = 14.53826
 d = 0.62088

Bead 645

Date : Mon Oct 17 13:28:32 PDT 2022
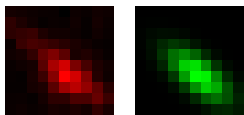Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 106 um (x), -48.1 um (y), 14.3 um (z)
Corresponding bead : Not found

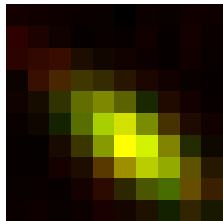| FWHM	Non corrected	Corrected	Theoretical
min	506 nm	523 nm	223 nm
max	1.15 um	1.18 um	223 nm
z	2.56 um	2.57 um	885 nm
Asymmetry	0.442		
Theta	-39.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.945$

Parameters:
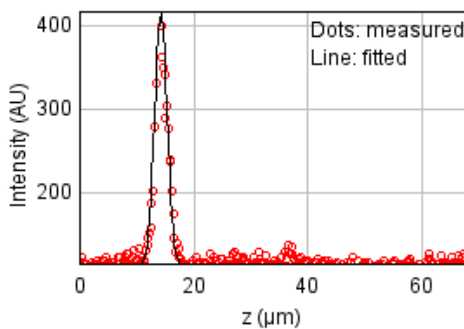 A = 282.017   (brightness)
 B = 117.542   (background)
 a = 0.274 px
 b = -0.207 px
 c = 0.352 px

xc = 5.290 px
yc = 5.850 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 49096.6960
Standard deviation: 12.64611
R^2: 0.93991
Parameters:
 a = 112.89160
 b = 417.68889
 c = 14.32056
 d = 1.08800

Bead 646

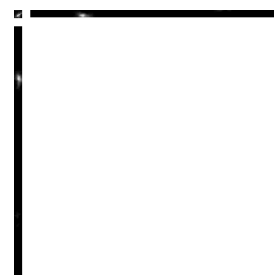Date : Mon Oct 17 13:28:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -160 um (x), -52.5 um (y), 14.0 um (z)
Corresponding bead : Not found

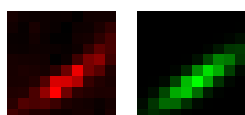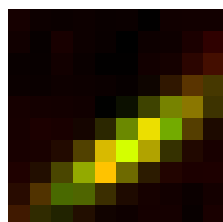| FWHM	Non corrected	Corrected	Theoretical
min	356 nm	368 nm	223 nm
max	1.46 um	1.51 um	223 nm
z	2.07 um	2.07 um	885 nm
Asymmetry	0.244		
Theta	34.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.909$

Parameters:
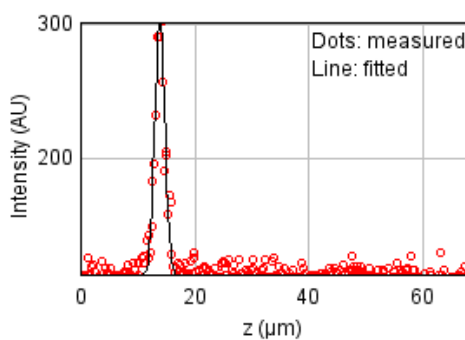 A = 202.049   (brightness)
 B = 116.997   (background)
 a = 0.376 px
 b = 0.462 px
 c = 0.747 px

xc = 5.089 px
yc = 5.860 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20264.5859
Standard deviation: 8.12456
R^2: 0.92425
Parameters:
 a = 111.56926
 b = 303.06945
 c = 13.96119
 d = 0.87706

Bead 647

Date : Mon Oct 17 13:28:32 PDT 2022
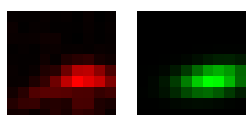Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 5.17 um (x), -74.3 um (y), 15.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	438 nm	453 nm	223 nm
max	1.06 um	1.09 um	223 nm
z	2.36 um	2.37 um	885 nm
Asymmetry	0.414		
Theta	7.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.914$
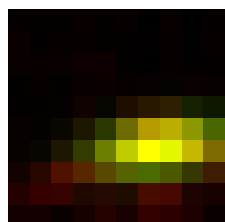
Parameters:
 A = 479.361   (brightness)
 B = 131.020   (background)
 a = 0.130 px
 b = 0.078 px
 c = 0.688 px

xc = 6.477 px
yc = 5.811 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 56085.5094
Standard deviation: 13.51625
R^2: 0.96313
Parameters:
 a = 113.34744
 b = 550.51646
 c = 15.17914
 d = 1.00421

Bead 648

Date : Mon Oct 17 13:28:32 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 50.1 um (x), -74.2 um (y), 14.3 um (z)
Corresponding bead : Not found

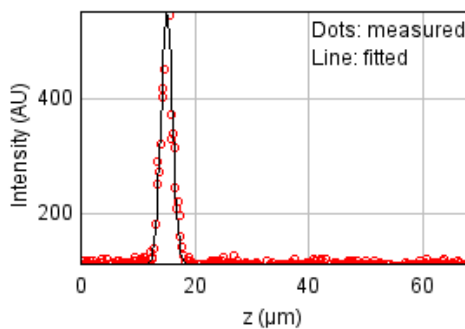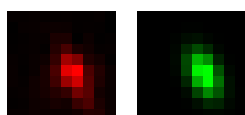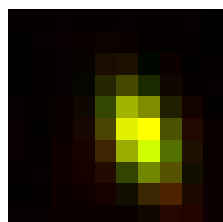| FWHM	Non corrected	Corrected	Theoretical
min	447 nm	462 nm	223 nm
max	752 nm	777 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.595		
Theta	-65.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.960$

Parameters:
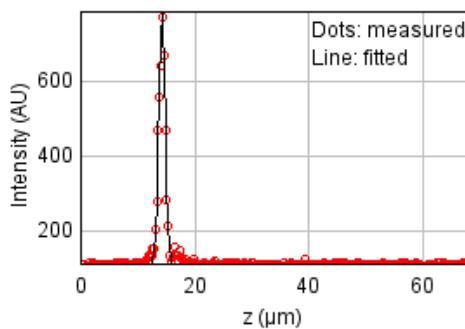A = 694.758 (brightness)
B = 128.009 (background)
a = 0.599 px
b = -0.162 px
c = 0.310 px

xc = 5.628 px
yc = 5.290 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33292.3409
Standard deviation: 10.41365
R^2: 0.98358
Parameters:
a = 112.70595
b = 789.24755
c = 14.34054
d = 0.55687

Bead 649 (Rejected)

Date : Mon Oct 17 13:28:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -43.1 um (x), -80.3 um (y), 21.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

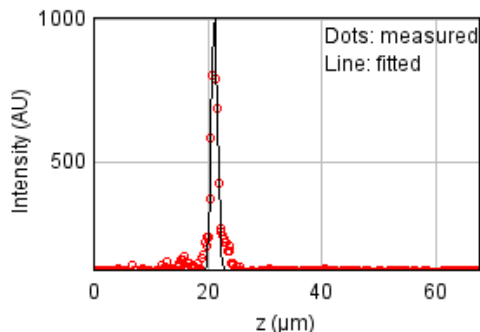| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 138489.621
Standard deviation: 21.23926
R^2: 0.96021
Parameters:
 a = 117.23279
 b = 1017.49499
 c = 21.25768
 d = 0.52638

Bead 650 (Rejected)

Date : Mon Oct 17 13:28:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
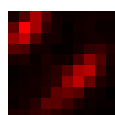Frame size : 10 pixels

Coordinates : -160 um (x), -86.8 um (y), 13.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

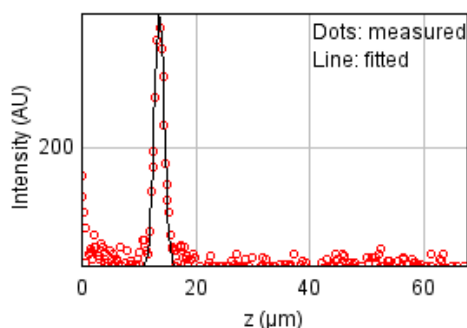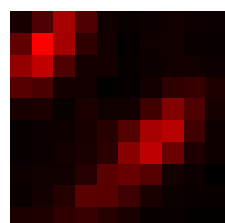| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	2.01 um	2.02 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26684.6415
Standard deviation: 9.32312
R^2: 0.89469
Parameters:
 a = 112.79254
 b = 298.61265
 c = 13.68022
 d = 0.85297

Bead 651 (Rejected)

Date : Mon Oct 17 13:28:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -15.0 um (x), -89.6 um (y), 12.9 um (z)
Corresponding bead : Not found
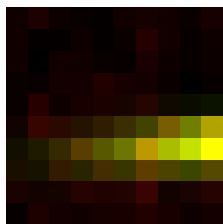Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	2.74 um	2.84 um	223 nm
z	2.23 um	2.24 um	885 nm
Asymmetry	0.144		
Theta	4.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
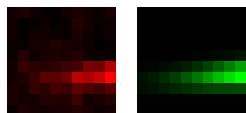
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.928$

Parameters:
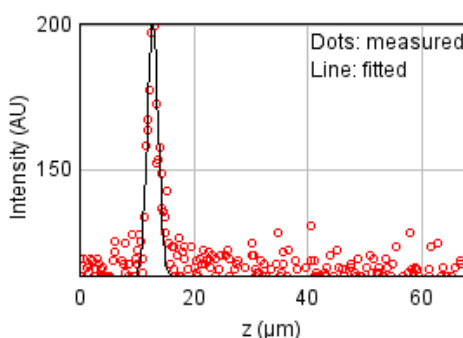A = 199.163   (brightness)
B = 115.649   (background)
a = 0.022 px
b = 0.061 px
c = 0.857 px

xc = 12.677 px
yc = 5.500 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14281.3039
Standard deviation: 6.82048
R^2: 0.79505
Parameters:
a = 113.50734
b = 200.94547
c = 12.89424
d = 0.94629

Bead 652

Date : Mon Oct 17 13:28:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
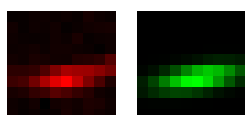
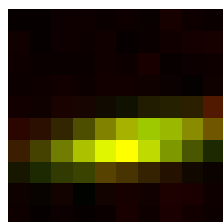Coordinates : 149 um (x), 87.0 um (y), 14.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	1.31 um	1.35 um	223 nm
z	2.16 um	2.17 um	885 nm
Asymmetry	0.28		
Theta	8.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.958$

Parameters:
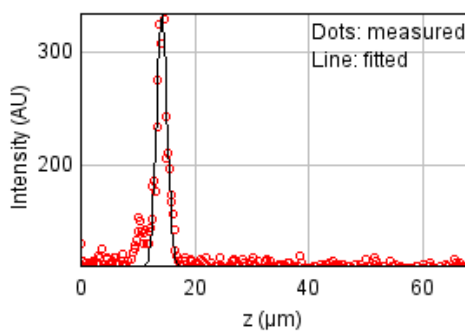A = 243.170   (brightness)
B = 116.131   (background)
a = 0.099 px
b = 0.138 px
c = 0.976 px

xc = 5.170 px
yc = 5.660 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30542.2586
Standard deviation: 9.97428
R^2: 0.91936
Parameters:
 a = 110.96980
 b = 333.40741
 c = 14.30783
 d = 0.91749

Bead 653 (Rejected)

Date : Mon Oct 17 13:28:33 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
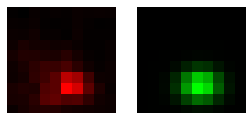Frame size : 10 pixels

Coordinates : -91.0 um (x), 72.7 um (y), 15.4 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

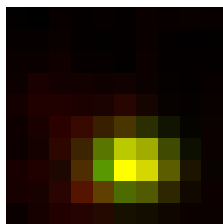| FWHM	Non corrected	Corrected	Theoretical
min	493 nm	509 nm	223 nm
max	625 nm	646 nm	223 nm
z	1.64 um	1.65 um	885 nm
Asymmetry	0.788		
Theta	0.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.888$

Parameters:
 A = 384.283   (brightness)
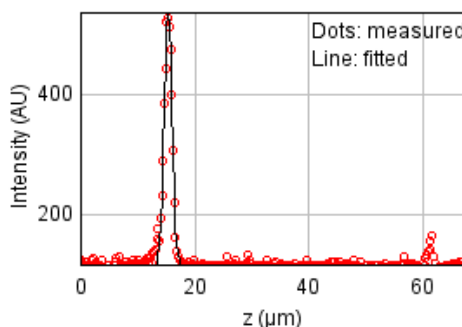 B = 127.469   (background)
 a = 0.343 px
 b = 0.003 px
 c = 0.553 px

xc = 5.259 px
yc = 6.711 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26051.0472
Standard deviation: 9.21178
R^2: 0.97362
Parameters:
 a = 115.19170
 b = 536.42907
 c = 15.40300
 d = 0.69819

Bead 654

Date : Mon Oct 17 13:28:33 PDT 2022
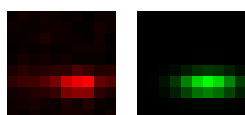Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -160 um (x), 46.6 um (y), 14.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	349 nm	361 nm	223 nm
max	901 nm	932 nm	223 nm
z	2.37 um	2.38 um	885 nm
Asymmetry	0.388		
Theta	0.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.931$

Parameters:
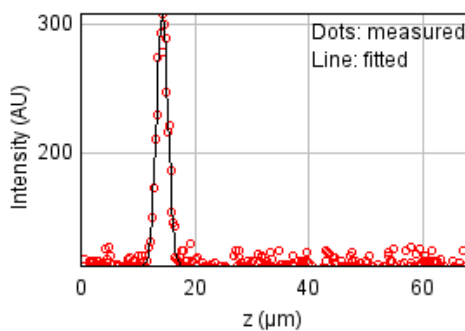 A = 213.319   (brightness)
 B = 114.731   (background)
 a = 0.165 px
 b = 0.006 px
 c = 1.099 px

xc = 6.008 px
yc = 6.192 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15324.2543
Standard deviation: 7.06514
R^2: 0.95143
Parameters:
 a = 111.74926
 b = 309.50077
 c = 14.38453
 d = 1.00581

Bead 655

Date : Mon Oct 17 13:28:34 PDT 2022
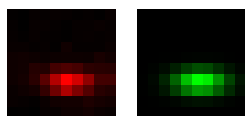Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 110 um (x), 45.3 um (y), 14.4 um (z)
Corresponding bead : Not found

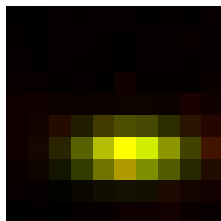| FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	852 nm	881 nm	223 nm
z	1.67 um	1.68 um	885 nm
Asymmetry	0.469		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.969$

Parameters:
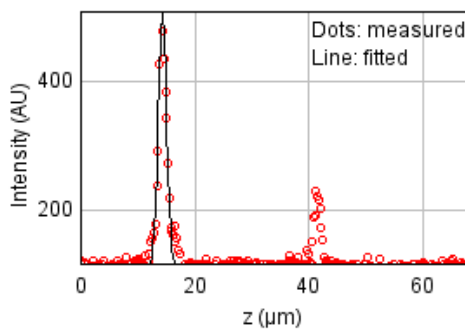 A = 422.157   (brightness)
 B = 118.746   (background)
 a = 0.185 px
 b = -0.000 px
 c = 0.840 px

xc = 5.283 px
yc = 6.201 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 100138.808
Standard deviation: 18.06059
R^2: 0.89683
Parameters:
 a = 115.50064
 b = 513.30556
 c = 14.40951
 d = 0.70906

Bead 656

Date : Mon Oct 17 13:28:34 PDT 2022
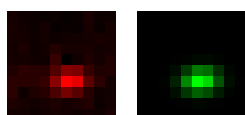Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -145 um (x), 43.1 um (y), 14.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	580 nm	600 nm	223 nm
z	1.94 um	1.95 um	885 nm
Asymmetry	0.675		
Theta	4.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.949$
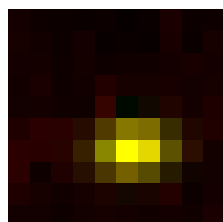
Parameters:
 A = 255.284   (brightness)
 B = 118.633   (background)
 a = 0.401 px
 b = 0.037 px
 c = 0.871 px

xc = 5.295 px
yc = 5.925 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17424.4310
Standard deviation: 7.53373
R^2: 0.95411
Parameters:
 a = 110.33637
 b = 348.92595
 c = 14.55129
 d = 0.82562

Bead 657

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

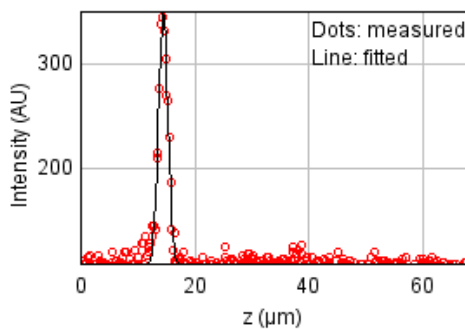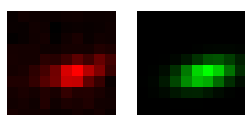Coordinates : -151 um (x), 14.5 um (y), 14.4 um (z)
Corresponding bead : Not found

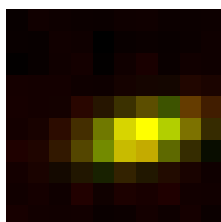| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	417 nm	223 nm
max	903 nm	933 nm	223 nm
z	1.85 um	1.85 um	885 nm
Asymmetry	0.447		
Theta	12.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
$R^2 = 0.955$

Parameters:
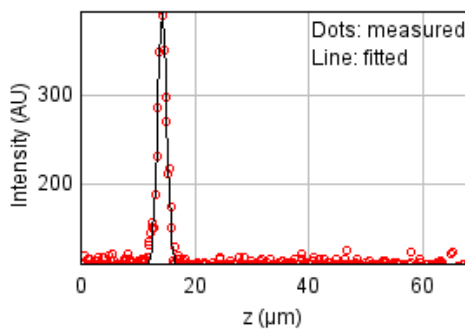A = 298.717 (brightness)
B = 117.608 (background)
a = 0.194 px
b = 0.136 px
c = 0.795 px

xc = 5.761 px
yc = 5.287 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 16341.3478
Standard deviation: 7.29583
R^2: 0.96764
Parameters:
a = 110.52459
b = 394.52306
c = 14.36023
d = 0.78417

Bead 658

Date : Mon Oct 17 13:28:34 PDT 2022
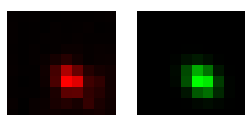Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 50.0 um (x), -14.3 um (y), 15.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	411 nm	223 nm
max	512 nm	529 nm	223 nm
z	1.85 um	1.85 um	885 nm
Asymmetry	0.777		
Theta	-36.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.958$
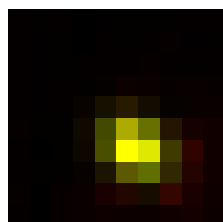
Parameters:
A = 1008.273   (brightness)
B = 127.610   (background)
a = 0.632 px
b = -0.161 px
c = 0.729 px

xc = 5.387 px
yc = 5.860 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$

Sum of residuals squared: 219573.254
Standard deviation: 26.74364
R^2: 0.96260
Parameters:
a = 116.30622
b = 1081.88576
c = 15.15449
d = 0.78449

Bead 659

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -55.0 um (x), -45.5 um (y), 15.5 um (z)
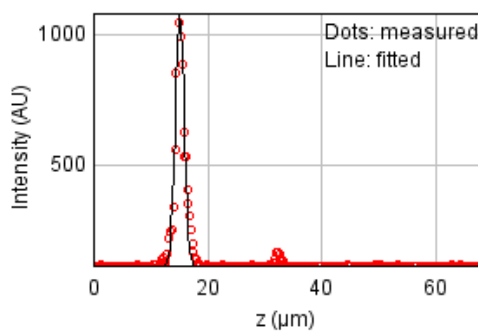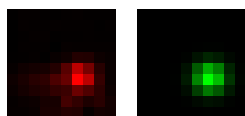Corresponding bead : Not found

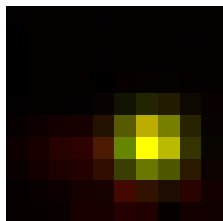| FWHM	Non corrected	Corrected	Theoretical
min	482 nm	499 nm	223 nm
max	526 nm	544 nm	223 nm
z	2.08 um	2.08 um	885 nm
Asymmetry	0.916		
Theta	1.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.904$

Parameters:
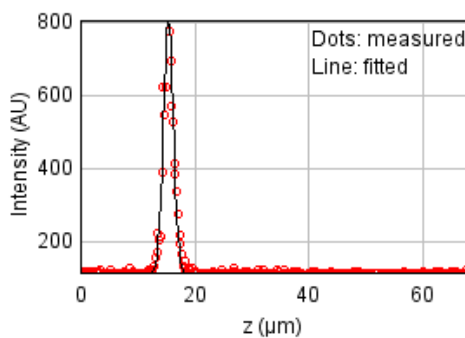A = 755.896   (brightness)
B = 136.692   (background)
a = 0.485 px
b = 0.002 px
c = 0.577 px

xc = 6.177 px
yc = 5.834 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 98380.0170
Standard deviation: 17.90129
R^2: 0.97075
Parameters:
 a = 113.32332
 b = 807.51631
 c = 15.45049
 d = 0.88153

Bead 660 (Rejected)

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 147 um (x), -53.1 um (y), 60.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

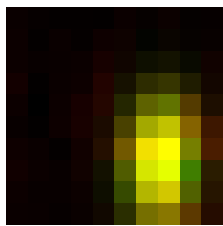| FWHM	Non corrected	Corrected	Theoretical
min	575 nm	595 nm	223 nm
max	1.02 um	1.05 um	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.565		
Theta	88.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
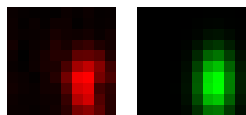
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.958$

Parameters:
 A = 369.120   (brightness)
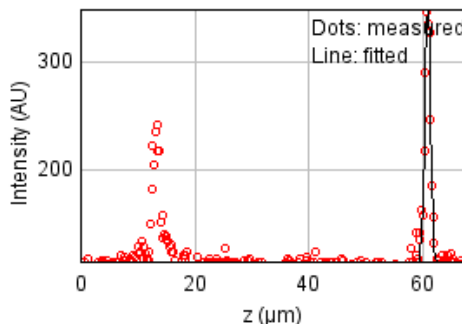 B = 114.830   (background)
 a = 0.405 px
 b = 0.008 px
 c = 0.129 px

xc = 6.639 px
yc = 6.554 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 104057.702
Standard deviation: 18.41060
R^2: 0.66969
Parameters:
 a = 115.29575
 b = 349.24959
 c = 60.87558
 d = 0.49103

Bead 661 (Rejected)

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
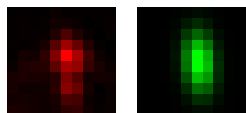
Coordinates : -12.5 um (x), -88.3 um (y), 14.5 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	487 nm	503 nm	223 nm
max	959 nm	991 nm	223 nm
z	1.42 um	1.43 um	885 nm
Asymmetry	0.508		
Theta	-85.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.880$
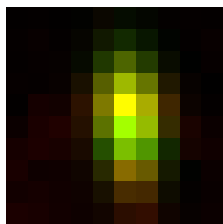
Parameters:
A = 467.035   (brightness)
B = 130.945   (background)
a = 0.563 px
b = -0.036 px
c = 0.149 px

xc = 5.195 px
yc = 4.585 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28176.0229
Standard deviation: 9.58011
R^2: 0.98080
Parameters:
a = 114.60256
b = 667.62396
c = 14.49003
d = 0.60314

Bead 662 (Rejected)

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -32.6 um (x), 93.0 um (y), 14.6 um (z)
Corresponding bead : Not found
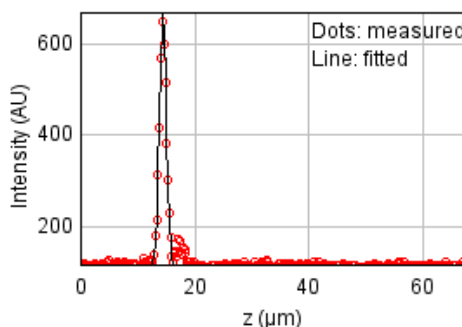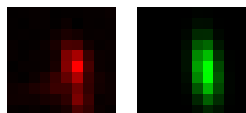Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	950 nm	982 nm	223 nm
z	1.14 um	1.14 um	885 nm
Asymmetry	0.412		
Theta	-84.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.899$
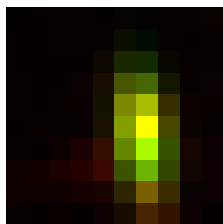
Parameters:
A = 568.789   (brightness)
B = 126.683   (background)
a = 0.867 px
b = -0.076 px
c = 0.157 px

xc = 5.805 px
yc = 5.359 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23962.7085
Standard deviation: 8.83484
R^2: 0.98753
Parameters:
a = 114.53946
b = 821.92906
c = 14.61899
d = 0.48275

Bead 663 (Rejected)

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -87.2 um (x), 91.2 um (y), 15.4 um (z)
Corresponding bead : Not found
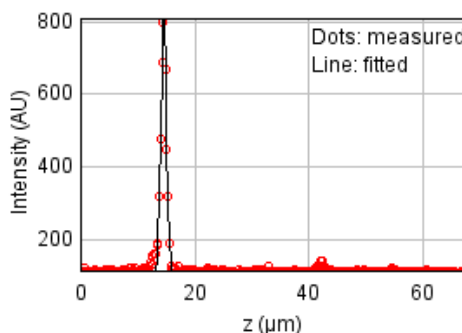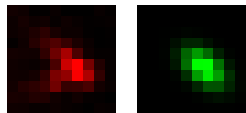Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	737 nm	762 nm	223 nm
z	2.11 um	2.12 um	885 nm
Asymmetry	0.614		
Theta	-39.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.862$
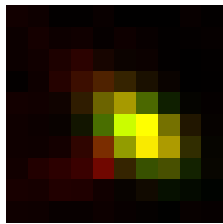
Parameters:
 A = 369.589   (brightness)
 B = 129.902   (background)
 a = 0.411 px
 b = -0.200 px
 c = 0.489 px

xc = 5.641 px
yc = 5.266 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 83251.2849
Standard deviation: 16.46745
R^2: 0.92830
Parameters:
 a = 115.65790
 b = 511.64746
 c = 15.36942
 d = 0.89507

Bead 664 (Rejected)

Date : Mon Oct 17 13:28:34 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 132 um (x), 91.1 um (y), 37.4 um (z)
Corresponding bead : Not found
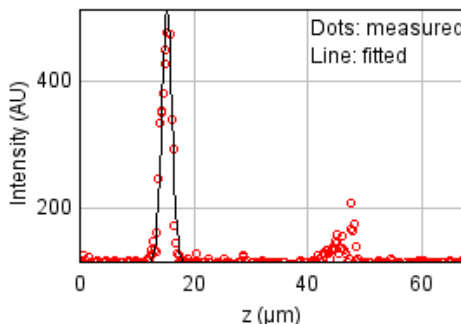Reason of rejection : R or C parameter off limits.

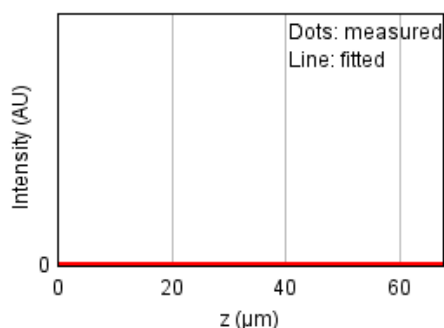| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 0.00000E0
Standard deviation: 0.00000E0
R^2: 0.00000
Parameters:
 a = 0.00000E0
 b = 0.00000E0
 c = -0.11115
 d = 0.11151

Bead 665

Date : Mon Oct 17 13:28:34 PDT 2022
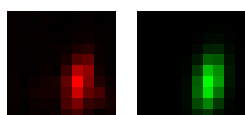Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 11.5 um (x), 83.1 um (y), 15.4 um (z)
Corresponding bead : Not found

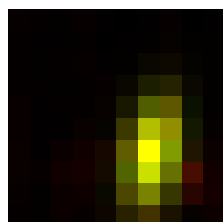| FWHM	Non corrected	Corrected	Theoretical
min	417 nm	432 nm	223 nm
max	838 nm	866 nm	223 nm
z	1.29 um	1.29 um	885 nm
Asymmetry	0.498		
Theta	80.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
$R^2 = 0.964$

Parameters:
 A = 693.776   (brightness)
 B = 120.361   (background)
 a = 0.752 px
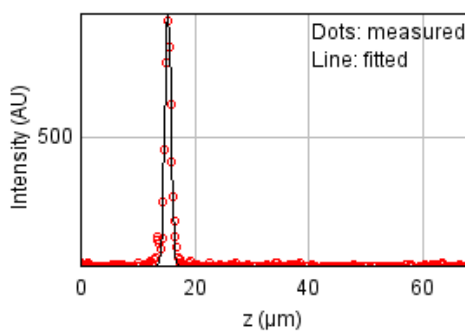 b = 0.099 px
 c = 0.209 px

xc = 6.157 px
yc = 6.122 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 52366.3050
Standard deviation: 13.06041
R^2: 0.97895
Parameters:
 a = 115.43604
 b = 869.21703
 c = 15.36225
 d = 0.54768

Bead 666

Date : Mon Oct 17 13:28:34 PDT 2022
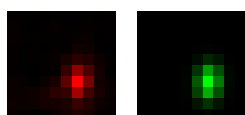Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -27.3 um (x), 54.5 um (y), 15.2 um (z)
Corresponding bead : Not found

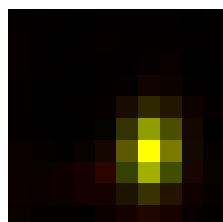| FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.43 um	1.44 um	885 nm
Asymmetry	0.691		
Theta	85.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   $R^2 = 0.964$

Parameters:
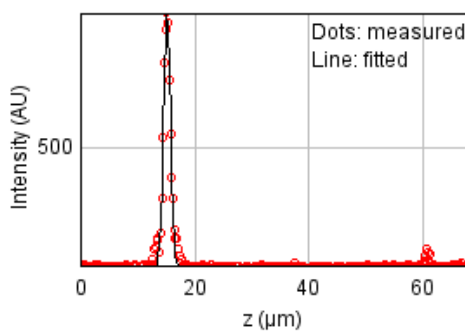 A = 780.436   (brightness)
 B = 129.510   (background)
 a = 0.903 px
 b = 0.036 px
 c = 0.435 px

xc = 6.082 px
yc = 6.056 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 72796.3453
Standard deviation: 15.39875
R^2: 0.97763
Parameters:
 a = 115.59540
 b = 934.97296
 c = 15.19986
 d = 0.60741

Bead 667

Date : Mon Oct 17 13:28:34 PDT 2022
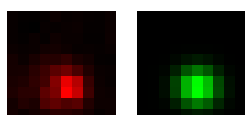Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -84.5 um (x), 50.3 um (y), 15.4 um (z)
Corresponding bead : Not found

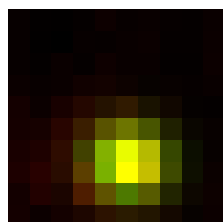| FWHM	Non corrected	Corrected	Theoretical
min	595 nm	615 nm	223 nm
max	639 nm	661 nm	223 nm
z	1.97 um	1.98 um	885 nm
Asymmetry	0.93		
Theta	-7.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.926$

Parameters:
 A = 458.297   (brightness)
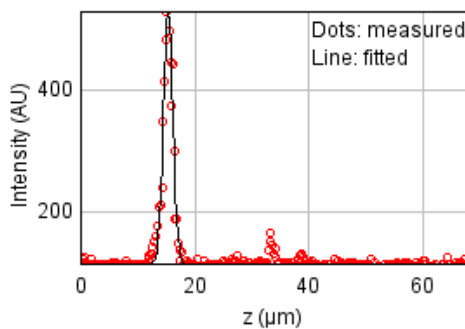 B = 124.905   (background)
 a = 0.329 px
 b = -0.006 px
 c = 0.379 px

xc = 5.045 px
yc = 6.517 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42228.9828
Standard deviation: 11.72833
R^2: 0.96340
Parameters:
 a = 114.38216
 b = 529.22660
 c = 15.40355
 d = 0.83850

Bead 668 (Rejected)

Date : Mon Oct 17 13:28:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
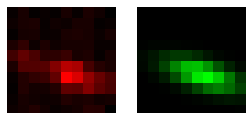Frame size : 10 pixels

Coordinates : 129 um (x), 14.6 um (y), 12.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

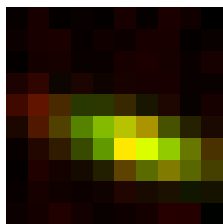| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	1.14 um	1.18 um	223 nm
z	2.95 um	2.96 um	885 nm
Asymmetry	0.367		
Theta	-17.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.875$

Parameters:
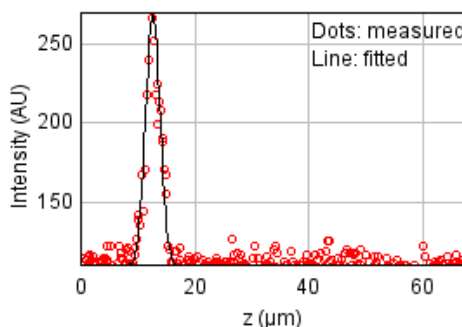A = 153.881   (brightness)
B = 115.773   (background)
a = 0.159 px
b = -0.184 px
c = 0.705 px

xc = 5.515 px
yc = 5.758 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25766.5168
Standard deviation: 9.16133
R^2: 0.90153
Parameters:
a = 111.00010
b = 269.17104
c = 12.73282
d = 1.25237

Bead 669 (Rejected)

Date : Mon Oct 17 13:28:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 130 um (x), 10.9 um (y), 14.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

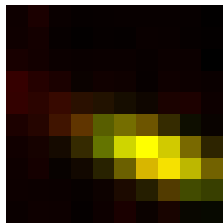| FWHM	Non corrected	Corrected	Theoretical
min	407 nm	421 nm	223 nm
max	1.03 um	1.07 um	223 nm
z	3.03 um	3.04 um	885 nm
Asymmetry	0.394		
Theta	-20.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
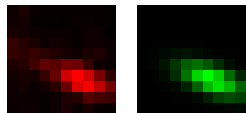
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.958$

Parameters:
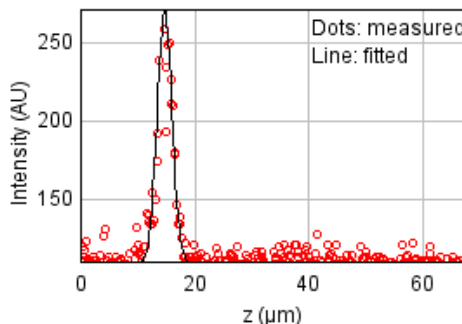 A = 345.498   (brightness)
 B = 120.125   (background)
 a = 0.210 px
 b = -0.225 px
 c = 0.726 px

xc = 6.336 px
yc = 6.369 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 32754.2052
Standard deviation: 10.32914
R^2: 0.88456
Parameters:
 a = 110.57579
 b = 271.70878
 c = 14.79739
 d = 1.28637

Bead 670

Date : Mon Oct 17 13:28:35 PDT 2022
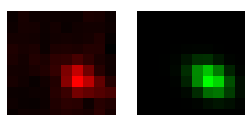Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 112 um (x), 3.79 um (y), 15.1 um (z)
Corresponding bead : Not found

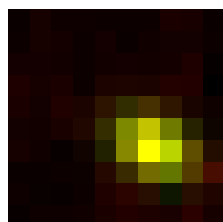| FWHM	Non corrected	Corrected	Theoretical
min	452 nm	468 nm	223 nm
max	645 nm	666 nm	223 nm
z	2.19 um	2.2 um	885 nm
Asymmetry	0.702		
Theta	-29.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.940$

Parameters:
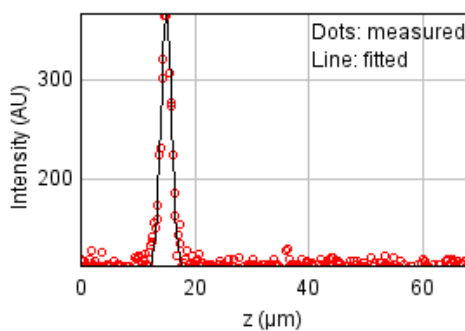A = 247.251   (brightness)
B = 120.267   (background)
a = 0.405 px
b = -0.143 px
c = 0.574 px

xc = 6.197 px
yc = 5.786 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16826.3358
Standard deviation: 7.40330
R^2: 0.96564
Parameters:
a = 111.64636
b = 369.00575
c = 15.07320
d = 0.93167

Bead 671

Date : Mon Oct 17 13:28:35 PDT 2022
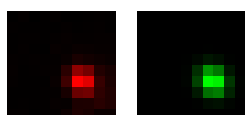Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 71.6 um (x), -6.59 um (y), 15.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	469 nm	485 nm	223 nm
z	1.48 um	1.48 um	885 nm
Asymmetry	0.878		
Theta	-48.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$

$R^2 = 0.970$

Parameters:
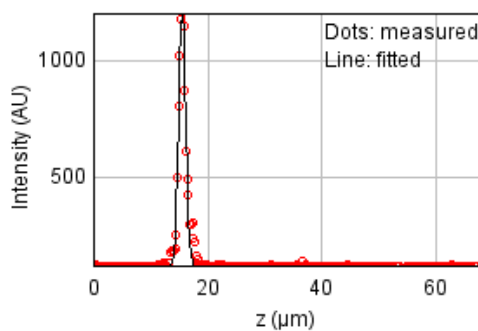A = 1204.727   (brightness)
B = 124.925   (background)
a = 0.712 px
b = -0.090 px
c = 0.688 px

xc = 6.450 px
yc = 5.953 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 153388.893
Standard deviation: 22.35259
R^2: 0.97417
Parameters:
a = 115.96366
b = 1203.83927
c = 15.59688
d = 0.62720

Bead 672

Date : Mon Oct 17 13:28:35 PDT 2022
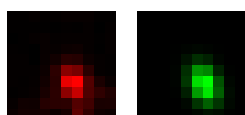Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 10.3 um (x), -21.0 um (y), 11.1 um (z)
Corresponding bead : Not found

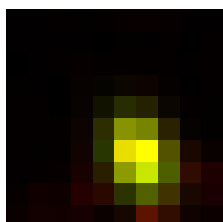| FWHM	Non corrected	Corrected	Theoretical
min	443 nm	457 nm	223 nm
max	635 nm	657 nm	223 nm
z	1.96 um	1.97 um	885 nm
Asymmetry	0.697		
Theta	-67.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.942$

Parameters:
 A = 732.551 (brightness)
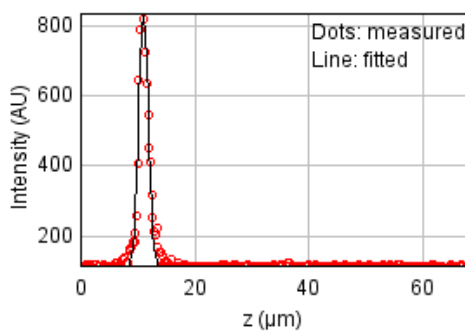 B = 125.330 (background)
 a = 0.635 px
 b = -0.123 px
 c = 0.383 px

xc = 5.660 px
yc = 6.253 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 91533.3645
Standard deviation: 17.26714
R^2: 0.97338
Parameters:
 a = 115.59667
 b = 838.32153
 c = 11.10729
 d = 0.83152

Bead 673

Date : Mon Oct 17 13:28:35 PDT 2022
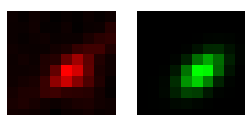Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -135 um (x), -40.3 um (y), 14.9 um (z)
Corresponding bead : Not found

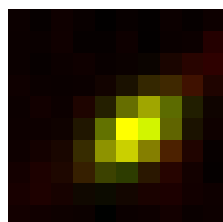| FWHM	Non corrected	Corrected	Theoretical
min	436 nm	451 nm	223 nm
max	746 nm	771 nm	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.585		
Theta	38.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.949$

Parameters:
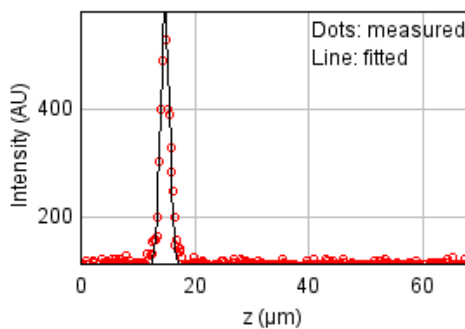 A = 472.271   (brightness)
 B = 125.050   (background)
 a = 0.424 px
 b = 0.227 px
 c = 0.523 px

xc = 5.373 px
yc = 5.145 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36083.7633
Standard deviation: 10.84143
R^2: 0.97428
Parameters:
 a = 111.23144
 b = 586.61507
 c = 14.85420
 d = 0.78275

Bead 674

Date : Mon Oct 17 13:28:35 PDT 2022
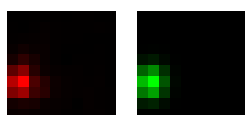Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 33.8 um (x), -79.7 um (y), 49.0 um (z)
Corresponding bead : Not found

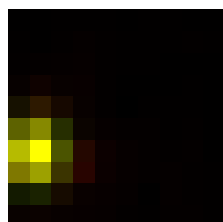| FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	496 nm	512 nm	223 nm
z	1.12 um	1.12 um	885 nm
Asymmetry	0.876		
Theta	87.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.979$

Parameters:
 A = 1548.626   (brightness)
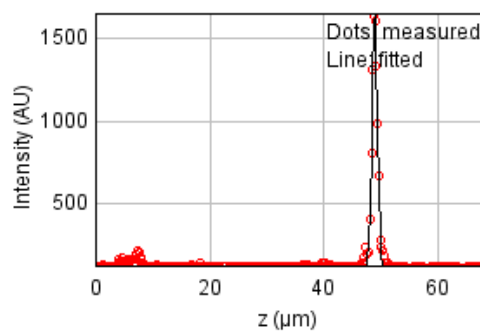 B = 127.220   (background)
 a = 0.711 px
 b = 0.009 px
 c = 0.547 px

xc = 0.718 px
yc = 6.078 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 148550.408
Standard deviation: 21.99722
R^2: 0.98360
Parameters:
 a = 122.01028
 b = 1668.81831
 c = 48.98873
 d = 0.47383

Bead 675 (Rejected)

Date : Mon Oct 17 13:28:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
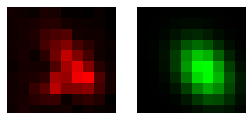Frame size : 10 pixels

Coordinates : -87.9 um (x), 95.0 um (y), 15.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

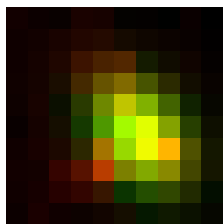| FWHM	Non corrected	Corrected	Theoretical
min	689 nm	713 nm	223 nm
max	955 nm	987 nm	223 nm
z	2.14 um	2.15 um	885 nm
Asymmetry	0.722		
Theta	-55.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.806$

Parameters:
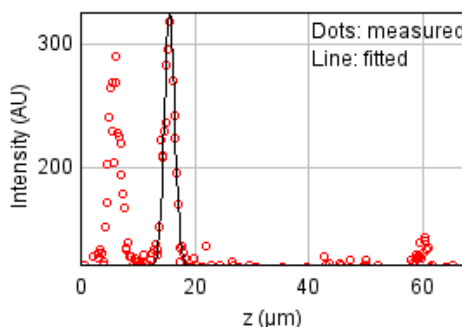 A = 302.069   (brightness)
 B = 127.297   (background)
 a = 0.239 px
 b = -0.063 px
 c = 0.191 px

xc = 5.632 px
yc = 5.336 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 220516.652
Standard deviation: 26.80103
R^2: 0.57156
Parameters:
 a = 120.88844
 b = 326.21911
 c = 15.67081
 d = 0.90933

Bead 676 (Rejected)

Date : Mon Oct 17 13:28:35 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
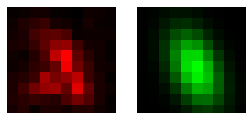Frame size : 10 pixels

Coordinates : -68.9 um (x), 91.5 um (y), 15.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

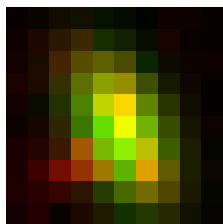| FWHM	Non corrected	Corrected	Theoretical
min	704 nm	728 nm	223 nm
max	1.21 um	1.25 um	223 nm
z	2.34 um	2.35 um	885 nm
Asymmetry	0.581		
Theta	-67.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.750$

Parameters:
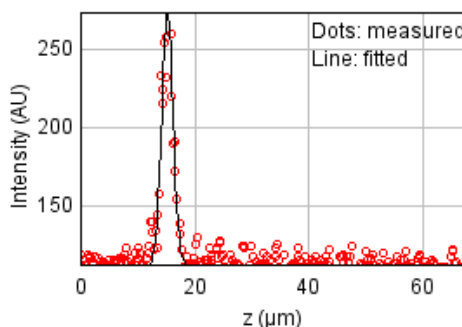 A = 244.288   (brightness)
 B = 124.888   (background)
 a = 0.244 px
 b = -0.064 px
 c = 0.118 px

xc = 4.814 px
yc = 5.133 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23371.6594
Standard deviation: 8.72520
R^2: 0.89395
Parameters:
 a = 112.42582
 b = 273.48485
 c = 15.27446
 d = 0.99443

Bead 677

Date : Mon Oct 17 13:28:35 PDT 2022
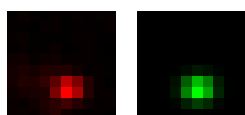Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -121 um (x), 31.5 um (y), 15.1 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	490 nm	507 nm	223 nm
z	1.74 um	1.75 um	885 nm
Asymmetry	0.798		
Theta	1.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.956$

Parameters:
A = 615.151   (brightness)
B = 123.048   (background)
a = 0.559 px
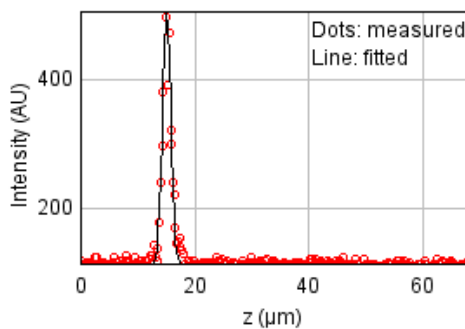b = 0.007 px
c = 0.877 px

xc = 5.117 px
yc = 6.680 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35206.9862
Standard deviation: 10.70891
R^2: 0.96166
Parameters:
 a = 112.17004
 b = 504.95056
 c = 15.14238
 d = 0.73909

Bead 678

Date : Mon Oct 17 13:28:36 PDT 2022
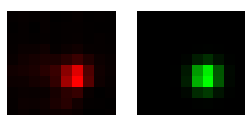Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -122 um (x), 21.9 um (y), 15.1 um (z)
Corresponding bead : Not found

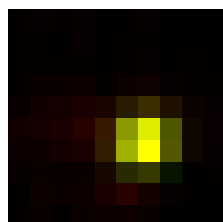| FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	435 nm	450 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.947		
Theta	18.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.955$

Parameters:
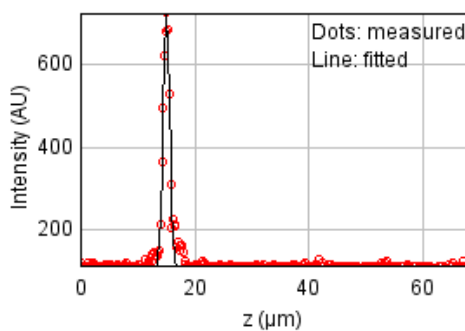A = 786.166   (brightness)
B = 129.968   (background)
a = 0.718 px
b = 0.025 px
c = 0.782 px

xc = 5.775 px
yc = 5.556 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 57318.7173
Standard deviation: 13.66404
R^2: 0.96727
Parameters:
a = 113.55045
b = 729.53218
c = 15.09143
d = 0.57128

Bead 679

Date : Mon Oct 17 13:28:36 PDT 2022
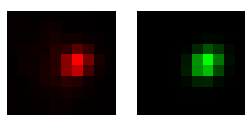Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -126 um (x), 14.9 um (y), 33.4 um (z)
Corresponding bead : Not found

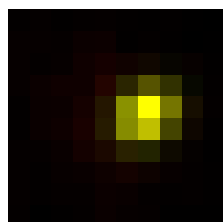| FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	487 nm	503 nm	223 nm
z	1.35 um	1.35 um	885 nm
Asymmetry	0.834		
Theta	40.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.977$

Parameters:
 A = 1134.194   (brightness)
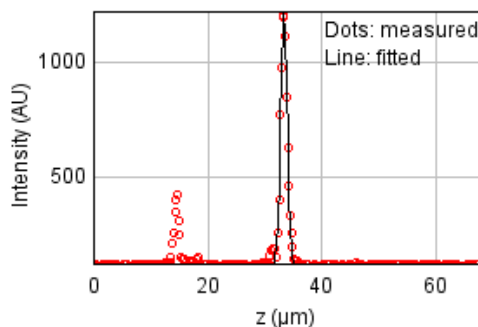 B = 132.444   (background)
 a = 0.673 px
 b = 0.123 px
 c = 0.708 px

xc = 5.858 px
yc = 4.319 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 398187.586
Standard deviation: 36.01427
R^2: 0.93198
Parameters:
 a = 121.00979
 b = 1225.01322
 c = 33.41130
 d = 0.57279

Bead 680

Date : Mon Oct 17 13:28:36 PDT 2022
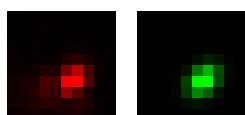Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -71.6 um (x), -14.7 um (y), 15.8 um (z)
Corresponding bead : Not found

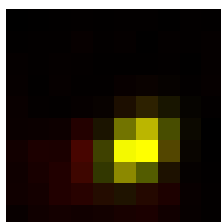| FWHM	Non corrected	Corrected	Theoretical
min	391 nm	404 nm	223 nm
max	542 nm	561 nm	223 nm
z	1.73 um	1.74 um	885 nm
Asymmetry	0.72		
Theta	43.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
  $R^2 = 0.928$

Parameters:
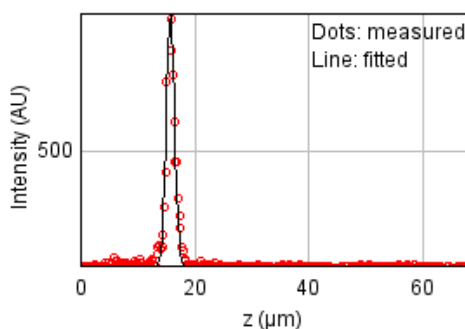 A = 966.913 (brightness)
 B = 140.856 (background)
 a = 0.657 px
 b = 0.211 px
 c = 0.679 px

xc = 5.555 px
yc = 5.888 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 138148.397
Standard deviation: 21.21308
R^2: 0.96718
Parameters:
 a = 115.30814
 b = 961.48619
 c = 15.81506
 d = 0.73395

Bead 681 (Rejected)

Date : Mon Oct 17 13:28:36 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 49.9 um (x), -14.1 um (y), 14.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

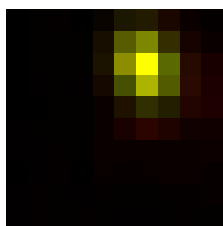| FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	543 nm	561 nm	223 nm
z	3.27 um	3.28 um	885 nm
Asymmetry	0.762		
Theta	-69.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
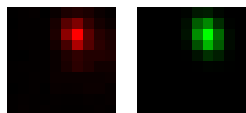
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

   $R^2 = 0.952$

Parameters:
 A = 1042.120   (brightness)
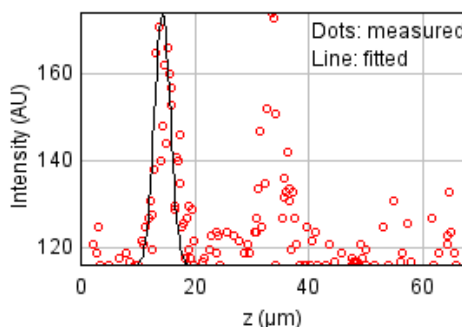 B = 138.264   (background)
 a = 0.744 px
 b = -0.107 px
 c = 0.495 px

xc = 5.918 px
yc = 2.126 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 66079.6203
Standard deviation: 14.67116
R^2: 0.34606
Parameters:
 a = 116.02001
 b = 174.11402
 c = 14.41895
 d = 1.38665

Bead 682

Date : Mon Oct 17 13:28:36 PDT 2022
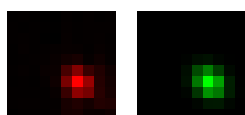Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 75.1 um (x), -19.6 um (y), 15.5 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	517 nm	535 nm	223 nm
z	1.4 um	1.4 um	885 nm
Asymmetry	0.814		
Theta	-43.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.975$

Parameters:
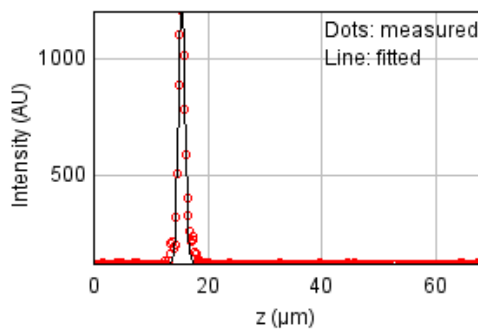 A = 1088.145   (brightness)
 B = 123.674   (background)
 a = 0.621 px
 b = -0.127 px
 c = 0.638 px

xc = 6.143 px
yc = 6.089 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 100860.742
Standard deviation: 18.12558
R^2: 0.98262
Parameters:
 a = 115.24738
 b = 1224.37104
 c = 15.51354
 d = 0.59379

Bead 683

Date : Mon Oct 17 13:28:36 PDT 2022
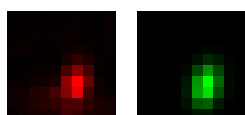Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -35.5 um (x), -24.9 um (y), 15.4 um (z)
Corresponding bead : Not found

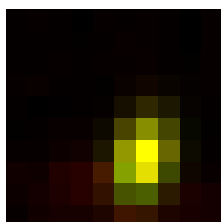| FWHM	Non corrected	Corrected	Theoretical
min	424 nm	438 nm	223 nm
max	633 nm	655 nm	223 nm
z	1.64 um	1.64 um	885 nm
Asymmetry	0.669		
Theta	75.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
$R^2 = 0.935$

Parameters:
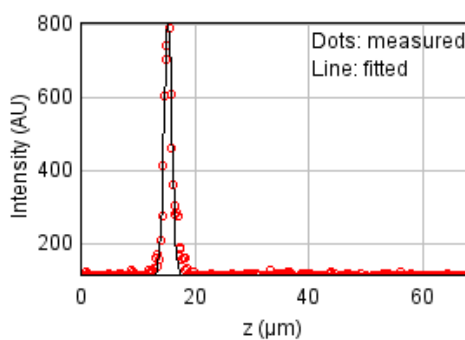A = 757.555 (brightness)
B = 132.090 (background)
a = 0.723 px
b = 0.098 px
c = 0.359 px

xc = 5.813 px
yc = 6.364 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 96969.9975
Standard deviation: 17.77254
R^2: 0.96374
Parameters:
a = 115.19679
b = 806.32225
c = 15.37160
d = 0.69508

Bead 684

Date : Mon Oct 17 13:28:36 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
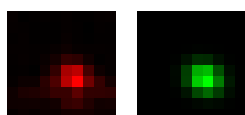
Coordinates : -10.8 um (x), -26.1 um (y), 15.9 um (z)
Corresponding bead : Not found

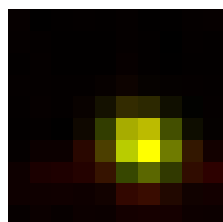| FWHM	Non corrected	Corrected	Theoretical
min	458 nm	474 nm	223 nm
max	548 nm	566 nm	223 nm
z	2.04 um	2.05 um	885 nm
Asymmetry	0.836		
Theta	-22.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.930$

Parameters:
 A = 794.362   (brightness)
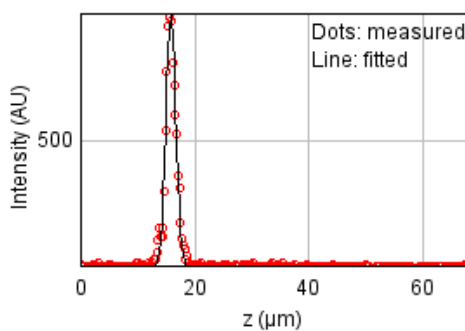 B = 131.614   (background)
 a = 0.476 px
 b = -0.069 px
 c = 0.610 px

xc = 5.696 px
yc = 5.719 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 67379.5987
Standard deviation: 14.81477
R^2: 0.98343
Parameters:
 a = 113.60176
 b = 888.96870
 c = 15.90028
 d = 0.86499

Bead 685

Date : Mon Oct 17 13:28:37 PDT 2022
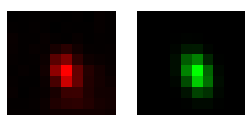Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 55.9 um (x), -34.6 um (y), 15.2 um (z)
Corresponding bead : Not found

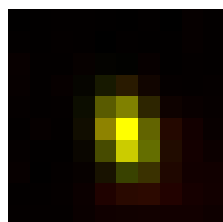| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	407 nm	223 nm
max	585 nm	605 nm	223 nm
z	1.18 um	1.18 um	885 nm
Asymmetry	0.672		
Theta	-68.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.957$

Parameters:
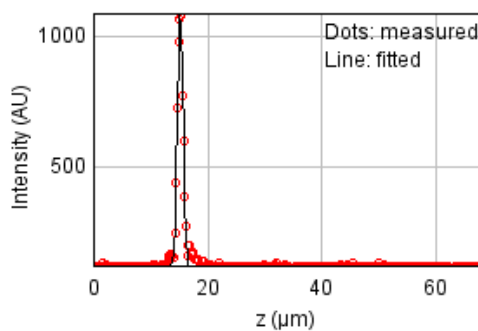 A = 947.361   (brightness)
 B = 133.920   (background)
 a = 0.805 px
 b = -0.161 px
 c = 0.455 px

xc = 4.966 px
yc = 5.241 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 54722.2507
Standard deviation: 13.35097
R^2: 0.98575
Parameters:
 a = 115.40031
 b = 1097.01689
 c = 15.24075
 d = 0.50085

Bead 686

Date : Mon Oct 17 13:28:37 PDT 2022
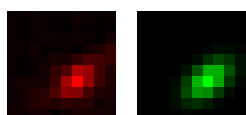Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -140 um (x), -38.7 um (y), 15.0 um (z)
Corresponding bead : Not found

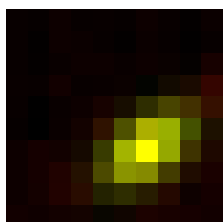| FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	775 nm	801 nm	223 nm
z	2.01 um	2.01 um	885 nm
Asymmetry	0.583		
Theta	37.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.956$

Parameters:
A = 401.863   (brightness)
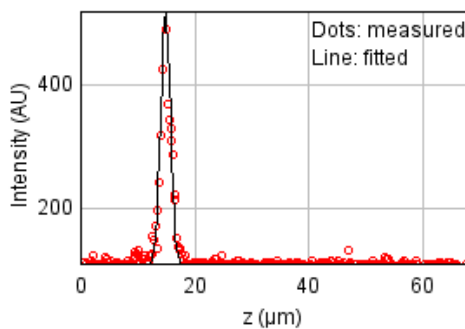B = 122.271   (background)
a = 0.384 px
b = 0.210 px
c = 0.497 px

xc = 6.025 px
yc = 5.869 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 53504.2080
Standard deviation: 13.20155
R^2: 0.95256
Parameters:
a = 111.44510
b = 516.25473
c = 14.95252
d = 0.85162

Bead 687

Date : Mon Oct 17 13:28:37 PDT 2022
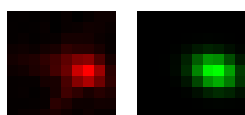Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -86.5 um (x), -77.7 um (y), 15.4 um (z)
Corresponding bead : Not found

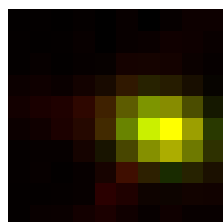| FWHM	Non corrected	Corrected	Theoretical
min	512 nm	529 nm	223 nm
max	727 nm	752 nm	223 nm
z	1.39 um	1.4 um	885 nm
Asymmetry	0.704		
Theta	-14.2°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.943$

Parameters:
 A = 610.484   (brightness)
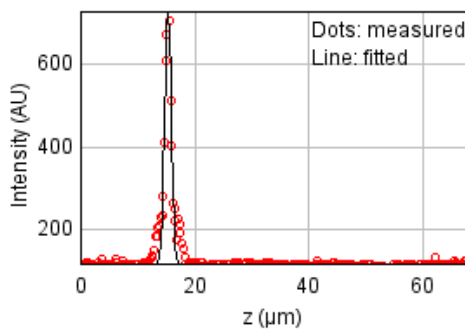 B = 134.826   (background)
 a = 0.269 px
 b = -0.061 px
 c = 0.497 px

xc = 6.627 px
yc = 5.061 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 94970.0427
Standard deviation: 17.58831
R^2: 0.94770
Parameters:
 a = 115.94816
 b = 727.02444
 c = 15.37620
 d = 0.59030

Bead 688

Date : Mon Oct 17 13:28:37 PDT 2022
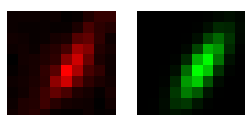Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -115 um (x), -77.8 um (y), 14.7 um (z)
Corresponding bead : Not found

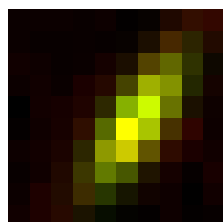| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	1.14 um	1.18 um	223 nm
z	2.11 um	2.11 um	885 nm
Asymmetry	0.365		
Theta	57.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.944$

Parameters:
 A = 266.736   (brightness)
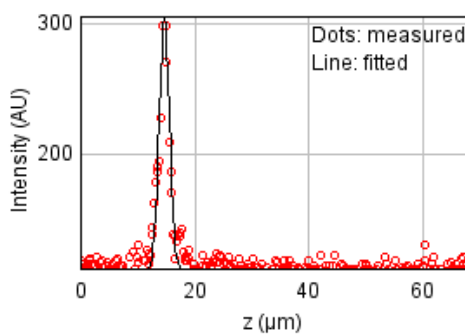 B = 124.989   (background)
 a = 0.572 px
 b = 0.305 px
 c = 0.300 px

xc = 5.466 px
yc = 4.637 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23095.9571
Standard deviation: 8.67359
R^2: 0.91742
Parameters:
 a = 112.30444
 b = 305.60832
 c = 14.74441
 d = 0.89411

Bead 689 (Rejected)

Date : Mon Oct 17 13:28:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
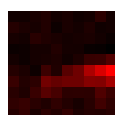Frame size : 10 pixels

Coordinates : 9.24 um (x), -80.3 um (y), 13.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

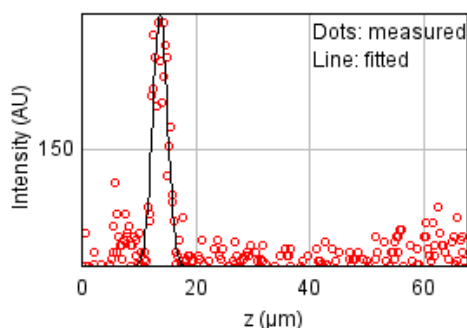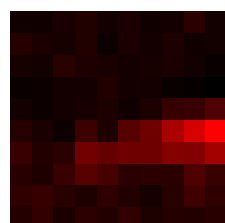| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	3.01 um	3.03 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16920.8477
Standard deviation: 7.42407
R^2: 0.78108
Parameters:
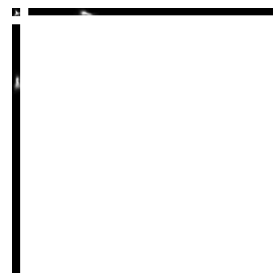 a = 113.27827
 b = 192.48509
 c = 13.82318
 d = 1.28016

Bead 690

Date : Mon Oct 17 13:28:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 61.5 um (x), -82.2 um (y), 14.9 um (z)
Corresponding bead : Not found

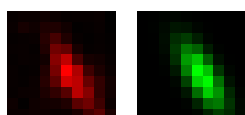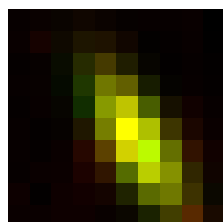| FWHM	Non corrected	Corrected	Theoretical
min	461 nm	477 nm	223 nm
max	1.18 um	1.22 um	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.389		
Theta	-59.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.957$

Parameters:
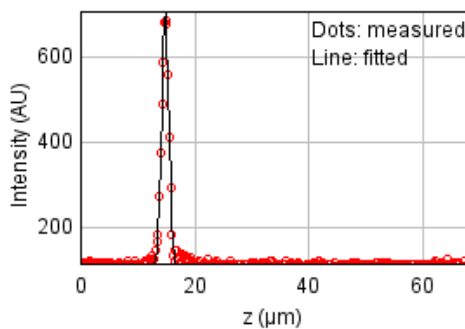 A = 534.893   (brightness)
 B = 122.550   (background)
 a = 0.495 px
 b = -0.233 px
 c = 0.231 px

xc = 5.462 px
yc = 5.534 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20891.7594
Standard deviation: 8.24932
R^2: 0.98800
Parameters:
 a = 113.41989
 b = 709.24464
 c = 14.89517
 d = 0.62172

Bead 691 (Rejected)

Date : Mon Oct 17 13:28:37 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -152 um (x), -88.0 um (y), 12.3 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

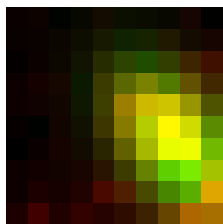| FWHM	Non corrected	Corrected	Theoretical
min	804 nm	831 nm	223 nm
max	1.42 um	1.47 um	223 nm
z	4.24 um	4.25 um	885 nm
Asymmetry	0.565		
Theta	-55.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
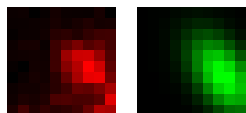
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.842$

Parameters:
 A = 171.342   (brightness)
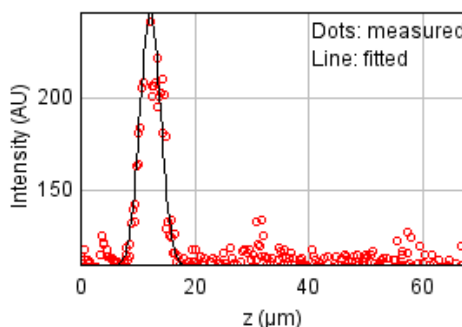 B = 117.294   (background)
 a = 0.161 px
 b = -0.066 px
 c = 0.113 px

xc = 7.435 px
yc = 5.837 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23891.9759
Standard deviation: 8.82179
R^2: 0.91010
Parameters:
 a = 109.97333
 b = 245.68678
 c = 12.29543
 d = 1.79929

Bead 692

Date : Mon Oct 17 13:28:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -31.2 um (x), 47.0 um (y), 62.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	497 nm	514 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.734		
Theta	-87.7°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.989$

Parameters:
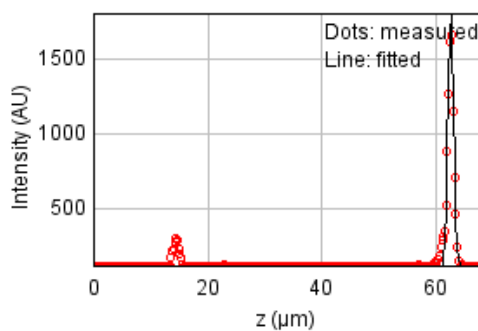 A = 1794.485   (brightness)
 B = 123.580   (background)
 a = 1.007 px
 b = -0.018 px
 c = 0.543 px

xc = 6.133 px
yc = 1.149 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 284251.997
Standard deviation: 30.42864
R^2: 0.97519
Parameters:
 a = 121.10620
 b = 1801.42555
 c = 62.66924
 d = 0.50453

Bead 693

Date : Mon Oct 17 13:28:38 PDT 2022
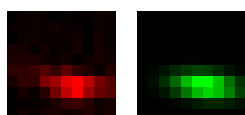Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 122 um (x), 34.9 um (y), 15.4 um (z)
Corresponding bead : Not found

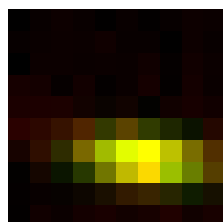| FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	994 nm	1.03 um	223 nm
z	2.37 um	2.38 um	885 nm
Asymmetry	0.405		
Theta	-6.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.943$

Parameters:
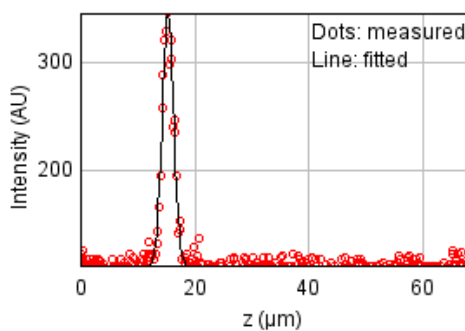 A = 255.859   (brightness)
 B = 113.918   (background)
 a = 0.144 px
 b = -0.075 px
 c = 0.819 px

 xc = 5.733 px
 yc = 6.378 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19759.4275
Standard deviation: 8.02265
R^2: 0.95552
Parameters:
 a = 110.31078
 b = 345.34217
 c = 15.38061
 d = 1.00687

Bead 694

Date : Mon Oct 17 13:28:38 PDT 2022
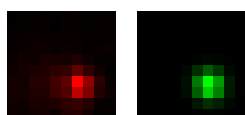Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -91.9 um (x), 29.6 um (y), 15.9 um (z)
Corresponding bead : Not found

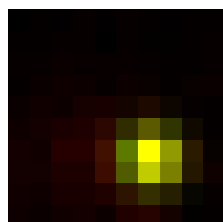| FWHM	Non corrected	Corrected	Theoretical
min	453 nm	468 nm	223 nm
max	469 nm	485 nm	223 nm
z	1.9 um	1.91 um	885 nm
Asymmetry	0.965		
Theta	-39.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.916$

Parameters:
A = 638.458   (brightness)
B = 134.812   (background)
a = 0.627 px
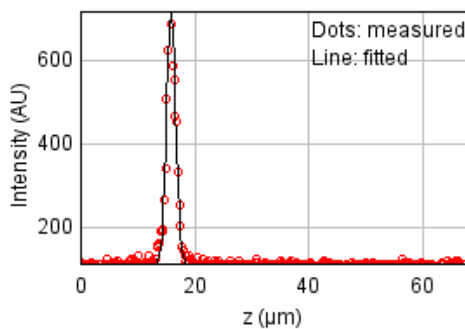b = -0.022 px
c = 0.636 px

xc = 6.109 px
yc = 6.326 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50345.7379
Standard deviation: 12.80596
R^2: 0.97875
Parameters:
a = 112.53863
b = 722.47855
c = 15.94122
d = 0.80770

Bead 695 (Rejected)

Date : Mon Oct 17 13:28:38 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -43.9 um (x), 10.4 um (y), 15.7 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

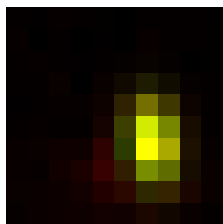| FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	642 nm	663 nm	223 nm
z	3.4 um	3.41 um	885 nm
Asymmetry	0.588		
Theta	-83.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
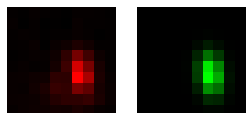
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.949$

Parameters:
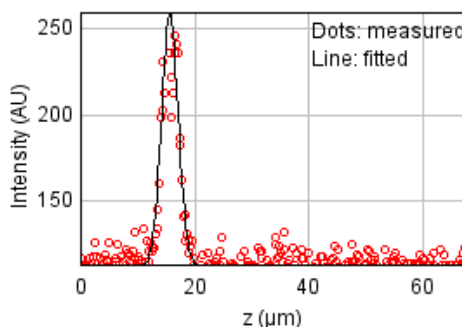 A = 754.397   (brightness)
 B = 131.690   (background)
 a = 0.936 px
 b = -0.071 px
 c = 0.334 px

xc = 6.256 px
yc = 5.678 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29822.9357
Standard deviation: 9.85612
R^2: 0.88726
Parameters:
 a = 112.24512
 b = 259.97662
 c = 15.72381
 d = 1.44396

Bead 696

Date : Mon Oct 17 13:28:38 PDT 2022
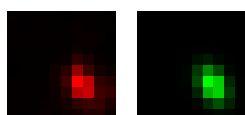Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 33.3 um (x), 8.73 um (y), 16.0 um (z)
Corresponding bead : Not found

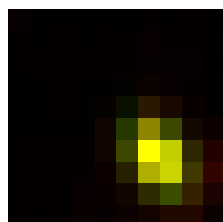| FWHM	Non corrected	Corrected	Theoretical
min	394 nm	408 nm	223 nm
max	581 nm	601 nm	223 nm
z	1.85 um	1.86 um	885 nm
Asymmetry	0.678		
Theta	-60.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.966$

Parameters:
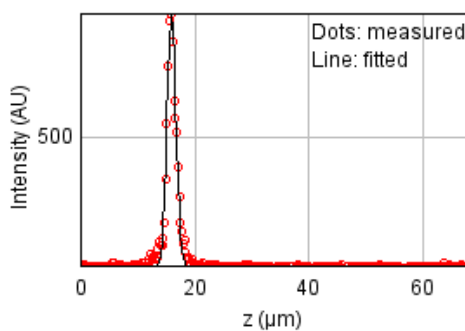 A = 907.637   (brightness)
 B = 126.881   (background)
 a = 0.747 px
 b = -0.201 px
 c = 0.513 px

 xc = 6.442 px
 yc = 6.305 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 84710.0311
Standard deviation: 16.61109
R^2: 0.97630
Parameters:
 a = 115.44825
 b = 872.80380
 c = 16.00345
 d = 0.78767

Bead 697

Date : Mon Oct 17 13:28:38 PDT 2022
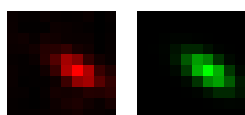Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 95.3 um (x), -15.2 um (y), 15.3 um (z)
Corresponding bead : Not found

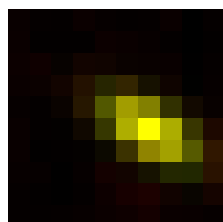| FWHM	Non corrected	Corrected	Theoretical
min	395 nm	409 nm	223 nm
max	808 nm	835 nm	223 nm
z	1.48 um	1.49 um	885 nm
Asymmetry	0.49		
Theta	-32.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.981$

Parameters:
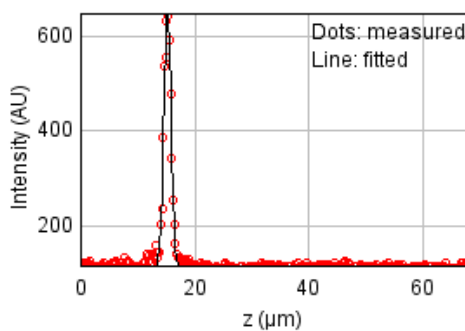 A = 510.886   (brightness)
 B = 119.969   (background)
 a = 0.389 px
 b = -0.293 px
 c = 0.676 px

xc = 6.005 px
yc = 5.015 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24692.4831
Standard deviation: 8.96836
R^2: 0.98293
Parameters:
 a = 114.15115
 b = 652.16203
 c = 15.27516
 d = 0.63058

Bead 698

Date : Mon Oct 17 13:28:38 PDT 2022
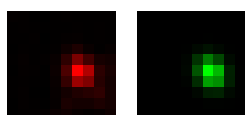Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 59.9 um (x), -24.0 um (y), 15.7 um (z)
Corresponding bead : Not found

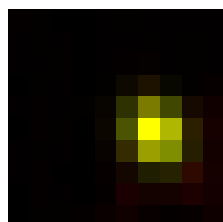| FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.34 um	1.34 um	885 nm
Asymmetry	0.829		
Theta	-60.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.967$

Parameters:
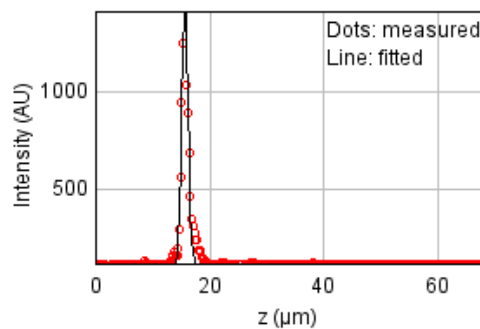A = 1362.544   (brightness)
B = 134.077   (background)
a = 0.723 px
b = -0.106 px
c = 0.600 px

xc = 6.292 px
yc = 5.163 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 203497.992
Standard deviation: 25.74607
R^2: 0.97423
Parameters:
a = 116.28672
b = 1433.38997
c = 15.73736
d = 0.56732

Bead 699

Date : Mon Oct 17 13:28:39 PDT 2022
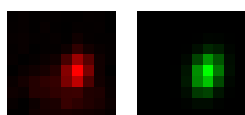Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -50.0 um (x), -52.6 um (y), 15.2 um (z)
Corresponding bead : Not found

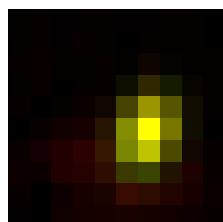| FWHM	Non corrected	Corrected	Theoretical
min	432 nm	446 nm	223 nm
max	605 nm	625 nm	223 nm
z	1.41 um	1.42 um	885 nm
Asymmetry	0.713		
Theta	71.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   R^2 = 0.930

Parameters:
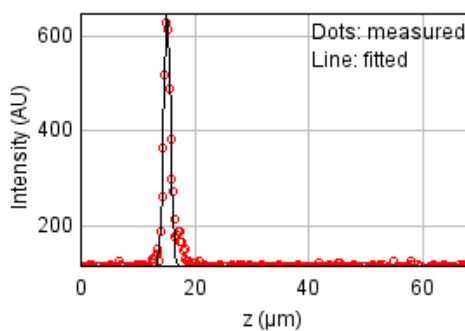 A = 541.269 (brightness)
 B = 128.467 (background)
 a = 0.684 px
 b = 0.108 px
 c = 0.403 px

xc = 5.903 px
yc = 5.195 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 48150.5866
Standard deviation: 12.52367
R^2: 0.96531
Parameters:
 a = 113.88418
 b = 648.67337
 c = 15.20776
 d = 0.60028

Bead 700

Date : Mon Oct 17 13:28:39 PDT 2022
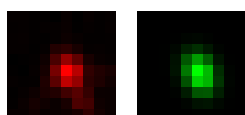Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 38.6 um (x), -69.6 um (y), 14.9 um (z)
Corresponding bead : Not found

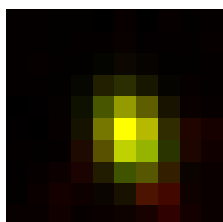| FWHM	Non corrected	Corrected	Theoretical
min	481 nm	497 nm	223 nm
max	651 nm	673 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.739		
Theta	-68.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.939$

Parameters:
A = 526.685   (brightness)
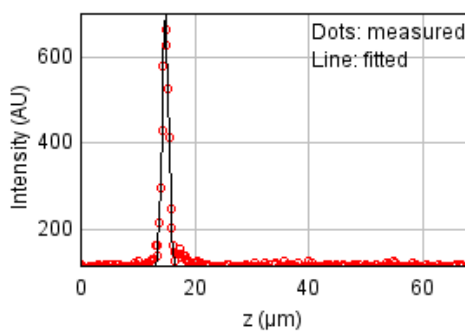B = 127.517   (background)
a = 0.545 px
b = -0.090 px
c = 0.352 px

xc = 5.245 px
yc = 5.275 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26548.8766
Standard deviation: 9.29938
R^2: 0.98320
Parameters:
 a = 113.84899
 b = 702.67135
 c = 14.91714
 d = 0.57349