Bead 201 (Rejected)

Date : Mon Oct 17 13:27:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -63.8 um (x), -72.4 um (y), 5.44 um (z)
Corresponding bead : Not found
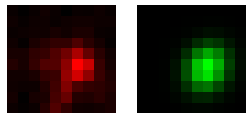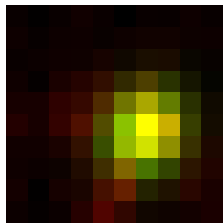Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	622 nm	643 nm	223 nm
max	724 nm	749 nm	223 nm
z	1.46 um	1.47 um	885 nm
Asymmetry	0.859		
Theta	62.7°		

XY profile & fitting parameters :

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

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

Parameters:
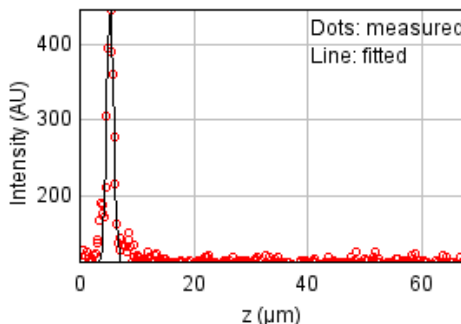 A = 284.942   (brightness)
 B = 132.261   (background)
 a = 0.328 px
 b = 0.037 px
 c = 0.275 px

xc = 5.891 px
yc = 5.286 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 35351.4765
Standard deviation: 10.73086
R^2: 0.93775
Parameters:
 a = 114.22111
 b = 446.01860
 c = 5.44016
 d = 0.62054

Bead 202 (Rejected)

Date : Mon Oct 17 13:27:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 84.9 um (x), -94.1 um (y), 4.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

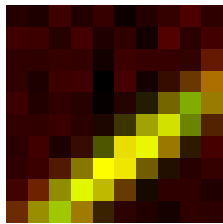| FWHM	Non corrected	Corrected	Theoretical
min	351 nm	363 nm	223 nm
max	2.45 um	2.53 um	223 nm
z	8.49 um	8.52 um	885 nm
Asymmetry	0.143		
Theta	37.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
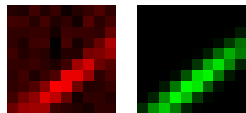
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
$R^2 = 0.891$

Parameters:
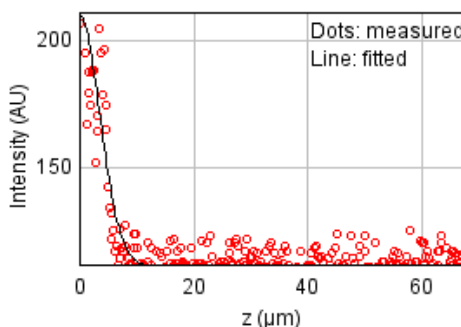 A = 88.284   (brightness)
 B = 115.698   (background)
 a = 0.417 px
 b = 0.515 px
 c = 0.696 px

xc = 4.686 px
yc = 6.766 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 22572.8042
Standard deviation: 8.57479
R^2: 0.85387
Parameters:
 a = 112.10265
 b = 211.05463
 c = -0.028299
 d = 3.60399

Bead 203 (Rejected)

Date : Mon Oct 17 13:27:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
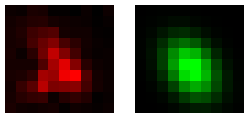Frame size : 10 pixels

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.

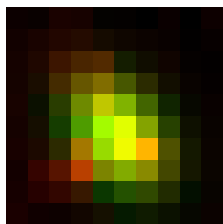| FWHM	Non corrected	Corrected	Theoretical
min	701 nm	725 nm	223 nm
max	967 nm	999 nm	223 nm
z	2.14 um	2.15 um	885 nm
Asymmetry	0.725		
Theta	-55.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.807$

Parameters:
 A = 302.409   (brightness)
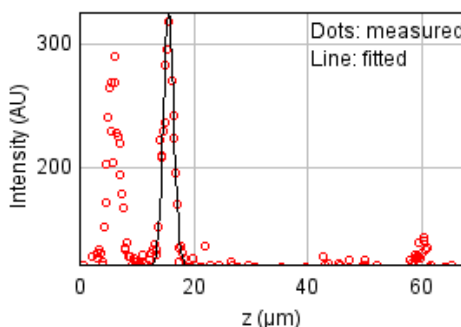 B = 124.869   (background)
 a = 0.232 px
 b = -0.060 px
 c = 0.184 px

xc = 4.620 px
yc = 5.332 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 204

Date : Mon Oct 17 13:27:57 PDT 2022
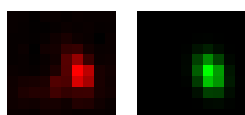Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -59.1 um (x), 89.5 um (y), 6.51 um (z)
Corresponding bead : Not found

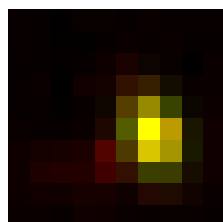| FWHM	Non corrected	Corrected	Theoretical
min	413 nm	427 nm	223 nm
max	577 nm	597 nm	223 nm
z	1.52 um	1.53 um	885 nm
Asymmetry	0.715		
Theta	-72.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.923$

Parameters:
A = 625.277   (brightness)
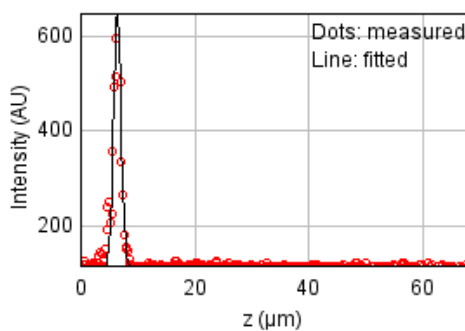B = 128.623   (background)
a = 0.752 px
b = -0.112 px
c = 0.439 px

xc = 6.207 px
yc = 5.257 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 74866.5193
Standard deviation: 15.61617
R^2: 0.95136
Parameters:
a = 113.75964
b = 652.97107
c = 6.51035
d = 0.64701

Bead 205 (Rejected)

Date : Mon Oct 17 13:27:57 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
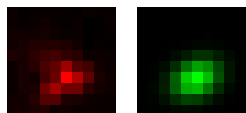Frame size : 10 pixels

Coordinates : -95.7 um (x), 82.9 um (y), 6.43 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

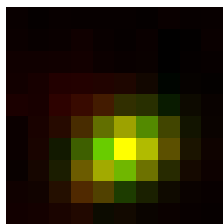| FWHM	Non corrected	Corrected	Theoretical
min	558 nm	577 nm	223 nm
max	761 nm	787 nm	223 nm
z	1.81 um	1.82 um	885 nm
Asymmetry	0.733		
Theta	25.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.862$

Parameters:
 A = 322.578 (brightness)
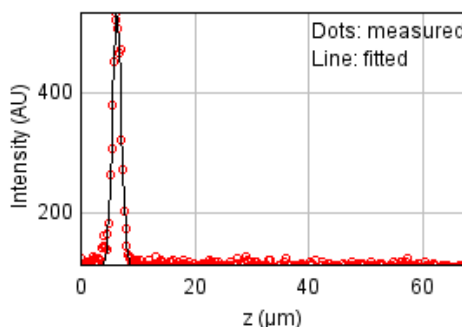 B = 123.993 (background)
 a = 0.269 px
 b = 0.078 px
 c = 0.394 px

xc = 4.894 px
yc = 6.098 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20056.3805
Standard deviation: 8.08271
R^2: 0.98125
Parameters:
 a = 114.20094
 b = 534.55426
 c = 6.42586
 d = 0.76839

Bead 206 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
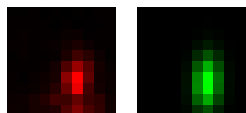Frame size : 10 pixels

Coordinates : -7.5 um (x), 68.8 um (y), 6.04 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

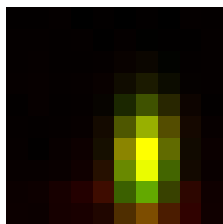| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	834 nm	862 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.503		
Theta	87.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 670.652   (brightness)
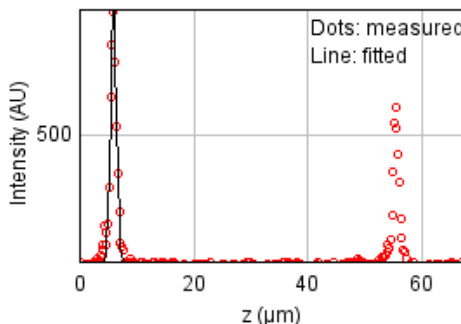 B = 131.149   (background)
 a = 0.761 px
 b = 0.023 px
 c = 0.194 px

xc = 5.916 px
yc = 6.474 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 893101.296
Standard deviation: 53.93630
R^2: 0.72445
Parameters:
 a = 126.60974
 b = 877.11857
 c = 6.03519
 d = 0.53223

Bead 207 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
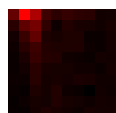
Coordinates : 103 um (x), 59.0 um (y), 9.25 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

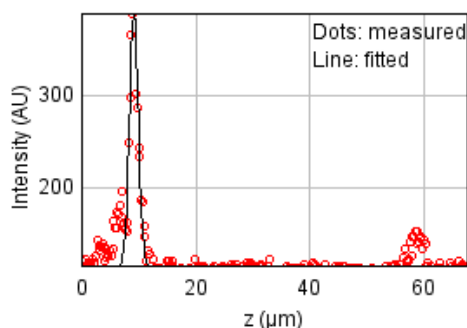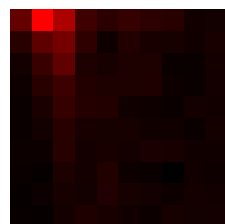| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 66485.8039
Standard deviation: 14.71619
R^2: 0.87054
Parameters:
 a = 115.98401
 b = 388.04986
 c = 9.25111
 d = 0.78163

Bead 208 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
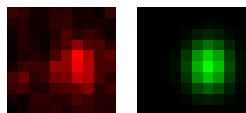Frame size : 10 pixels

Coordinates : -142 um (x), 22.7 um (y), 3.09 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

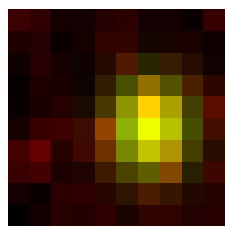| FWHM	Non corrected	Corrected	Theoretical
min	652 nm	674 nm	223 nm
max	772 nm	798 nm	223 nm
z	3.85 um	3.87 um	885 nm
Asymmetry	0.845		
Theta	-88.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.834$

Parameters:
A = 116.596   (brightness)
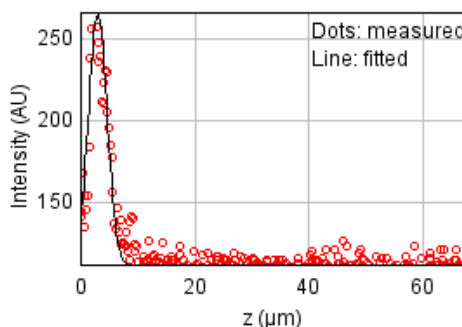B = 122.730   (background)
a = 0.316 px
b = -0.003 px
c = 0.225 px

xc = 6.068 px
yc = 4.914 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 35374.8576
Standard deviation: 10.73441
R^2: 0.89049
Parameters:
a = 111.75620
b = 266.13208
c = 3.09279
d = 1.63571

Bead 209 (Rejected)

Date : Mon Oct 17 13:27:58 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -67.6 um (x), 12.5 um (y), 4.2 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

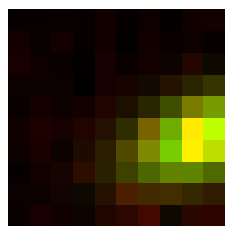| FWHM	Non corrected	Corrected	Theoretical
min	630 nm	651 nm	223 nm
max	1.22 um	1.27 um	223 nm
z	1.72 um	1.72 um	885 nm
Asymmetry	0.514		
Theta	19.5°		

XY profile & fitting parameters :

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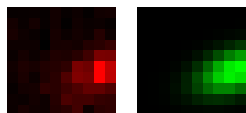
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.899$

Parameters:
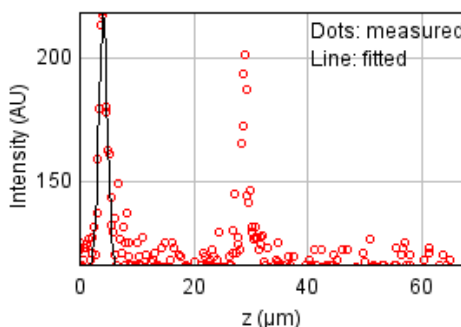 A = 182.072   (brightness)
 B = 118.152   (background)
 a = 0.117 px
 b = 0.078 px
 c = 0.311 px

xc = 8.587 px
yc = 5.387 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 45301.7554
Standard deviation: 12.14754
R^2: 0.56617
Parameters:
 a = 116.40900
 b = 218.67373
 c = 4.19912
 d = 0.72953

Bead 210

Date : Mon Oct 17 13:27:59 PDT 2022
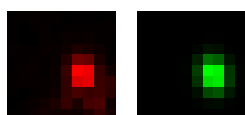Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 30.2 um (x), -7.79 um (y), 6.1 um (z)
Corresponding bead : Not found

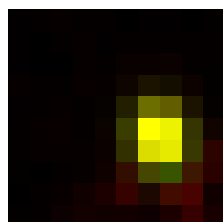| FWHM	Non corrected	Corrected	Theoretical
min	423 nm	437 nm	223 nm
max	528 nm	546 nm	223 nm
z	1.55 um	1.55 um	885 nm
Asymmetry	0.801		
Theta	-77.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.923$

Parameters:
A = 858.130   (brightness)
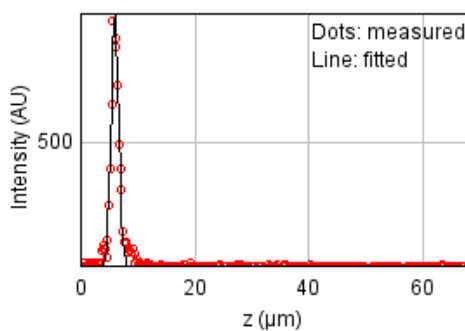B = 131.903   (background)
a = 0.738 px
b = -0.055 px
c = 0.493 px

xc = 6.494 px
yc = 5.405 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 88298.6529
Standard deviation: 16.95930
R^2: 0.97319
Parameters:
a = 114.77633
b = 906.47899
c = 6.09613
d = 0.65738

Bead 211

Date : Mon Oct 17 13:27:59 PDT 2022
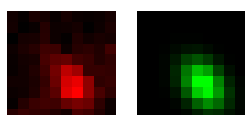Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -133 um (x), -17.4 um (y), 6.4 um (z)
Corresponding bead : Not found

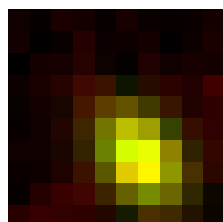| FWHM	Non corrected	Corrected	Theoretical
min	580 nm	600 nm	223 nm
max	824 nm	852 nm	223 nm
z	2.73 um	2.74 um	885 nm
Asymmetry	0.704		
Theta	-55.9°		

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 = 0.910

Parameters:
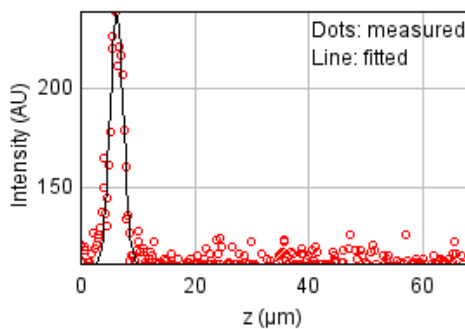 A = 123.588   (brightness)
 B = 116.784   (background)
 a = 0.335 px
 b = -0.093 px
 c = 0.260 px

xc = 5.576 px
yc = 6.275 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 16523.0966
Standard deviation: 7.33629
R^2: 0.89464
Parameters:
 a = 111.57189
 b = 237.99355
 c = 6.39583
 d = 1.15998

Bead 212

Date : Mon Oct 17 13:27:59 PDT 2022
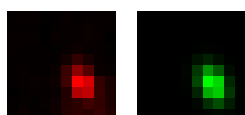Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 43.0 um (x), -18.1 um (y), 5.73 um (z)
Corresponding bead : Not found

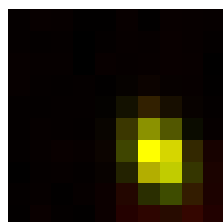| FWHM	Non corrected	Corrected	Theoretical
min	403 nm	416 nm	223 nm
max	584 nm	604 nm	223 nm
z	1.38 um	1.39 um	885 nm
Asymmetry	0.69		
Theta	-64.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.960$

Parameters:
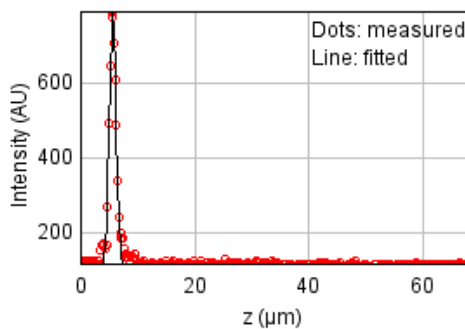 A = 741.760   (brightness)
 B = 122.458   (background)
 a = 0.747 px
 b = -0.168 px
 c = 0.473 px

xc = 6.437 px
yc = 6.250 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47373.1389
Standard deviation: 12.42215
R^2: 0.97780
Parameters:
 a = 115.11677
 b = 789.78888
 c = 5.72798
 d = 0.58697

Bead 213

Date : Mon Oct 17 13:27:59 PDT 2022
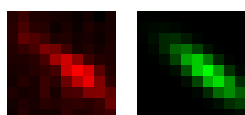Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 92.0 um (x), -33.5 um (y), 5.06 um (z)
Corresponding bead : Not found

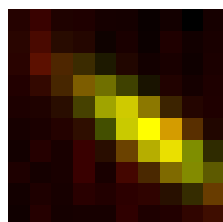| FWHM	Non corrected	Corrected	Theoretical
min	399 nm	413 nm	223 nm
max	1.34 um	1.38 um	223 nm
z	1.89 um	1.9 um	885 nm
Asymmetry	0.299		
Theta	-37.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.917$

Parameters:
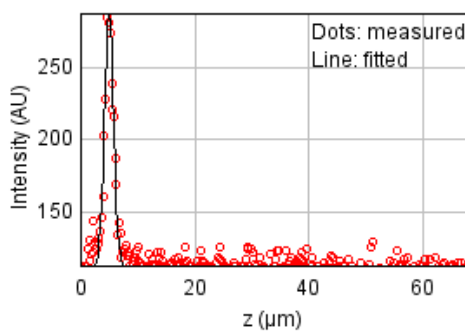 A = 163.554   (brightness)
 B = 117.765   (background)
 a = 0.357 px
 b = -0.369 px
 c = 0.559 px

xc = 5.964 px
yc = 5.140 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15895.3285
Standard deviation: 7.19558
R^2: 0.92193
Parameters:
 a = 112.89653
 b = 286.97010
 c = 5.05610
 d = 0.80261

Bead 214 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
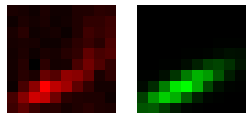Frame size : 10 pixels

Coordinates : -144 um (x), -36.8 um (y), 4.69 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

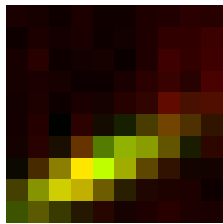| FWHM	Non corrected	Corrected	Theoretical
min	356 nm	368 nm	223 nm
max	1.39 um	1.43 um	223 nm
z	2.63 um	2.64 um	885 nm
Asymmetry	0.257		
Theta	25.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.847$

Parameters:
A = 130.266 (brightness)
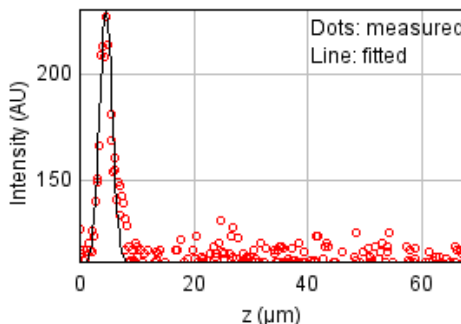B = 116.433 (background)
a = 0.249 px
b = 0.380 px
c = 0.879 px

xc = 3.522 px
yc = 7.119 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17440.7115
Standard deviation: 7.53725
R^2: 0.87586
Parameters:
a = 110.77257
b = 231.32893
c = 4.69470
d = 1.11610

Bead 215 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
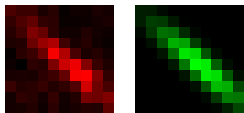Frame size : 10 pixels

Coordinates : 105 um (x), -61.2 um (y), 4.8 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

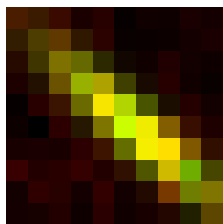| FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	1.84 um	1.91 um	223 nm
z	2.03 um	2.04 um	885 nm
Asymmetry	0.211		
Theta	-42.1°		

XY profile & fitting parameters :

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

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

Parameters:
A = 133.478 (brightness)
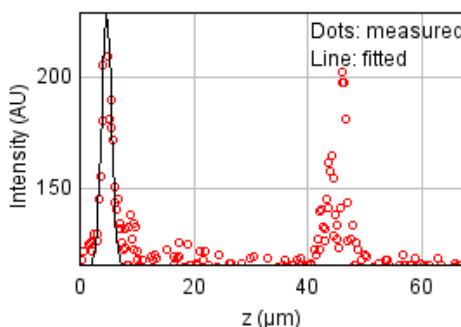B = 117.518 (background)
a = 0.422 px
b = -0.423 px
c = 0.509 px

xc = 5.519 px
yc = 5.105 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 61048.5205
Standard deviation: 14.10160
R^2: 0.58380
Parameters:
a = 115.55536
b = 229.10752
c = 4.79795
d = 0.86332

Bead 216 (Rejected)

Date : Mon Oct 17 13:28:00 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -159 um (x), -66.8 um (y), 4.83 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

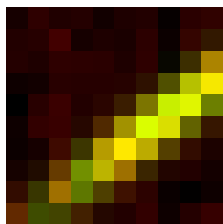| FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	2.44 um	2.53 um	223 nm
z	3.09 um	3.11 um	885 nm
Asymmetry	0.157		
Theta	37.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
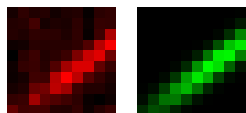
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.916$

Parameters:
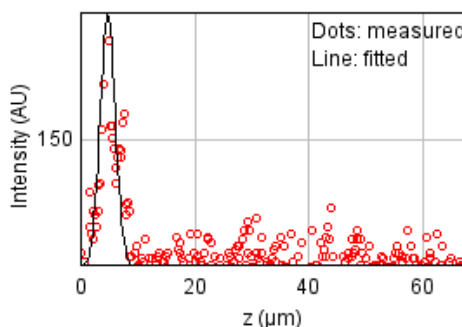 A = 109.554   (brightness)
 B = 115.125   (background)
 a = 0.347 px
 b = 0.429 px
 c = 0.589 px

xc = 6.990 px
yc = 4.441 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23861.1391
Standard deviation: 8.81610
R^2: 0.72329
Parameters:
 a = 110.75400
 b = 190.29032
 c = 4.83314
 d = 1.31410

Bead 217

Date : Mon Oct 17 13:28:00 PDT 2022
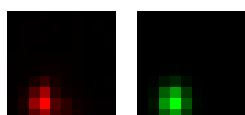Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 32.7 um (x), -79.9 um (y), 38.5 um (z)
Corresponding bead : Not found

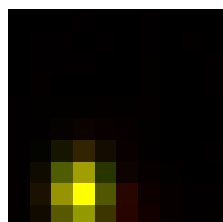| FWHM	Non corrected	Corrected	Theoretical
min	406 nm	420 nm	223 nm
max	521 nm	538 nm	223 nm
z	1.2 um	1.21 um	885 nm
Asymmetry	0.78		
Theta	-89.2°		

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 = 0.976

Parameters:
 A = 1871.661   (brightness)
 B = 126.986   (background)
 a = 0.813 px
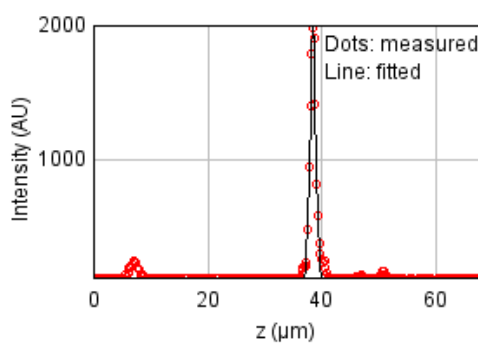 b = -0.004 px
 c = 0.495 px

xc = 2.837 px
yc = 7.985 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 266098.220
Standard deviation: 29.44095
R^2: 0.98150
Parameters:
 a = 124.51825
 b = 2001.31300
 c = 38.50789
 d = 0.51101

Bead 218 (Rejected)

Date : Mon Oct 17 13:28:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 74.8 um (x), 78.3 um (y), 57.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

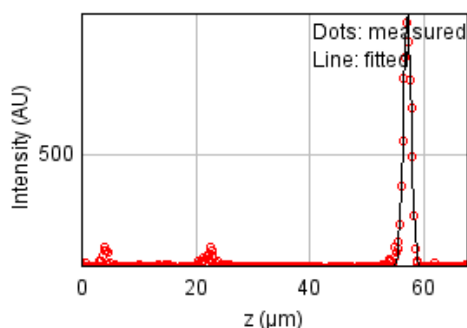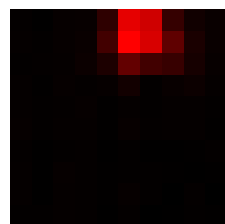| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.62 um	1.63 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 67030.9354
Standard deviation: 14.77639
R^2: 0.98370
Parameters:
 a = 116.82025
 b = 986.97080
 c = 57.12992
 d = 0.68793

Bead 219 (Rejected)

Date : Mon Oct 17 13:28:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
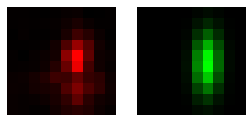Frame size : 10 pixels

Coordinates : -7.5 um (x), 68.7 um (y), 6.04 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

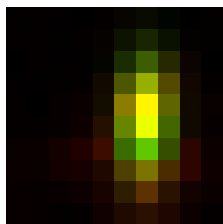| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	959 nm	992 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.433		
Theta	88.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.884$

Parameters:
 A = 622.313   (brightness)
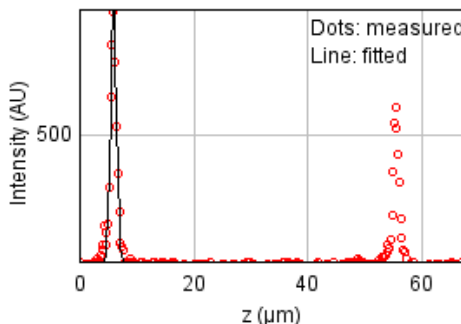 B = 139.151   (background)
 a = 0.778 px
 b = 0.013 px
 c = 0.146 px

xc = 5.920 px
yc = 4.651 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 893101.296
Standard deviation: 53.93630
R^2: 0.72445
Parameters:
 a = 126.60974
 b = 877.11857
 c = 6.03519
 d = 0.53223

Bead 220

Date : Mon Oct 17 13:28:01 PDT 2022
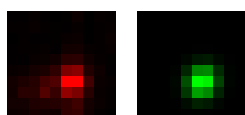Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -71.6 um (x), 28.2 um (y), 6.69 um (z)
Corresponding bead : Not found

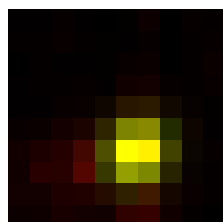| FWHM	Non corrected	Corrected	Theoretical
min	456 nm	472 nm	223 nm
max	501 nm	518 nm	223 nm
z	1.89 um	1.9 um	885 nm
Asymmetry	0.91		
Theta	59.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.902$

Parameters:
 A = 647.119   (brightness)
 B = 135.941   (background)
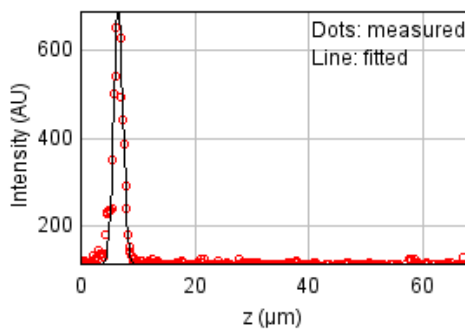 a = 0.616 px
 b = 0.049 px
 c = 0.563 px

xc = 5.446 px
yc = 6.044 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 57763.3985
Standard deviation: 13.71694
R^2: 0.97293
Parameters:
 a = 113.81465
 b = 692.24067
 c = 6.68744
 d = 0.80406

Bead 221 (Rejected)

Date : Mon Oct 17 13:28:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -102 um (x), 23.3 um (y), 7.11 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

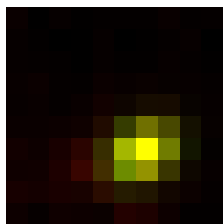| FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	549 nm	567 nm	223 nm
z	3.82 um	3.84 um	885 nm
Asymmetry	0.76		
Theta	30.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
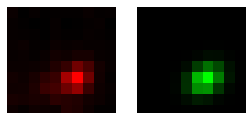
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.943$

Parameters:
 A = 488.825   (brightness)
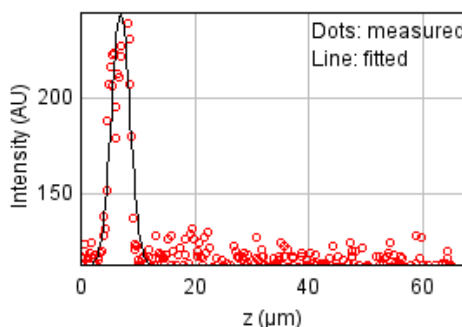 B = 125.884   (background)
 a = 0.529 px
 b = 0.142 px
 c = 0.688 px

xc = 5.778 px
yc = 6.143 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 32404.0761
Standard deviation: 10.27379
R^2: 0.86772
Parameters:
 a = 112.16371
 b = 245.44773
 c = 7.10827
 d = 1.62293

Bead 222 (Rejected)

Date : Mon Oct 17 13:28:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
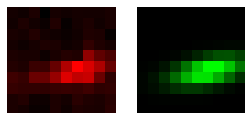Frame size : 10 pixels

Coordinates : -154 um (x), 17.7 um (y), 5.41 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

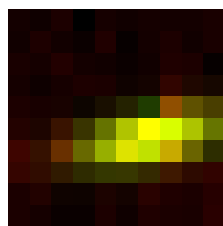| FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	1.14 um	1.18 um	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.357		
Theta	11.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.923$

Parameters:
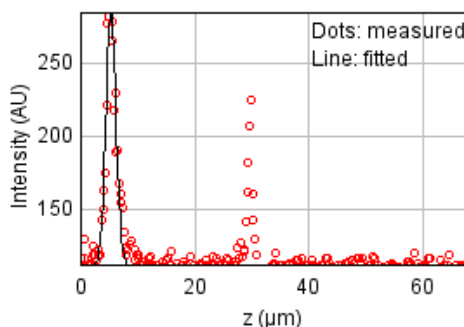 A = 170.313   (brightness)
 B = 113.955   (background)
 a = 0.132 px
 b = 0.138 px
 c = 0.788 px

xc = 6.084 px
yc = 5.405 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 51865.0400
Standard deviation: 12.99775
R^2: 0.79620
Parameters:
 a = 112.18393
 b = 284.82741
 c = 5.40968
 d = 0.88475

Bead 223

Date : Mon Oct 17 13:28:02 PDT 2022
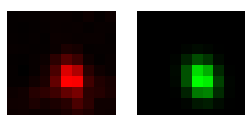Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 7.35 um (x), -2.58 um (y), 6.91 um (z)
Corresponding bead : Not found

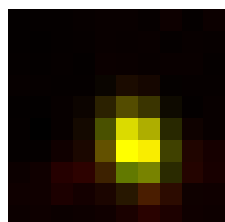| FWHM	Non corrected	Corrected	Theoretical
min	457 nm	472 nm	223 nm
max	566 nm	585 nm	223 nm
z	2.25 um	2.26 um	885 nm
Asymmetry	0.808		
Theta	-67.9°		

XY profile & fitting parameters :

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

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

Parameters:
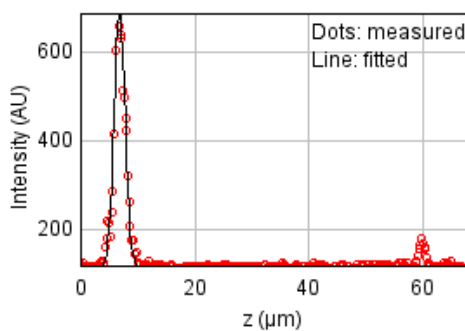 A = 608.577   (brightness)
 B = 127.523   (background)
 a = 0.611 px
 b = -0.078 px
 c = 0.451 px

xc = 5.405 px
yc = 5.741 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 88631.0352
Standard deviation: 16.99119
R^2: 0.96431
Parameters:
 a = 116.41080
 b = 688.95525
 c = 6.91317
 d = 0.95448

Bead 224

Date : Mon Oct 17 13:28:02 PDT 2022
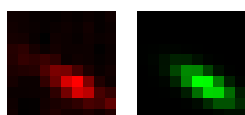Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 98.3 um (x), -5.78 um (y), 5.85 um (z)
Corresponding bead : Not found

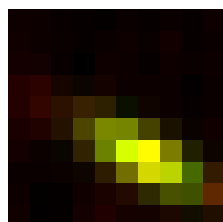| FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	960 nm	992 nm	223 nm
z	1.73 um	1.74 um	885 nm
Asymmetry	0.392		
Theta	-29.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 303.412   (brightness)
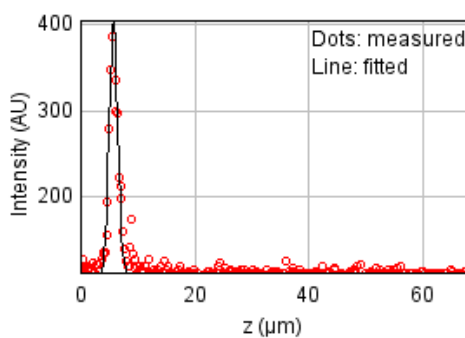 B = 121.302   (background)
 a = 0.343 px
 b = -0.345 px
 c = 0.748 px

xc = 5.767 px
yc = 6.287 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26966.4106
Standard deviation: 9.37222
R^2: 0.94830
Parameters:
 a = 112.26422
 b = 406.82337
 c = 5.84981
 d = 0.73585

Bead 225

Date : Mon Oct 17 13:28:02 PDT 2022
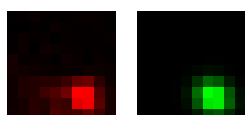Origin : data_traditional.tif   (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -83.7 um (x), -18.8 um (y), 7.2 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	491 nm	508 nm	223 nm
max	557 nm	575 nm	223 nm
z	2.61 um	2.62 um	885 nm
Asymmetry	0.883		
Theta	-34.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.926$

Parameters:
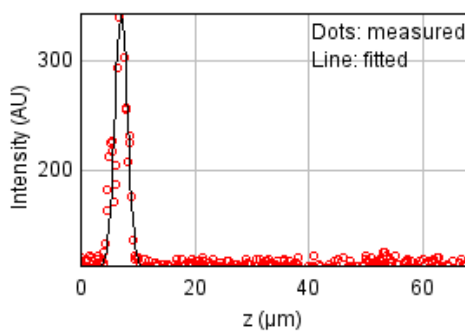A = 385.416   (brightness)
B = 122.946   (background)
a = 0.472 px
b = -0.057 px
c = 0.517 px

xc = 6.477 px
yc = 7.446 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55955.0351
Standard deviation: 13.50052
R^2: 0.88848
Parameters:
a = 113.08479
b = 343.18358
c = 7.19950
d = 1.10955

Bead 226

Date : Mon Oct 17 13:28:03 PDT 2022
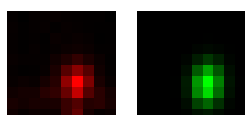Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -18.7 um (x), -26.2 um (y), 6.82 um (z)
Corresponding bead : Not found

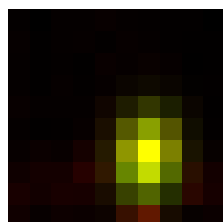| FWHM	Non corrected	Corrected	Theoretical
min	468 nm	483 nm	223 nm
max	657 nm	680 nm	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.711		
Theta	85.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.926$

Parameters:
A = 635.528   (brightness)
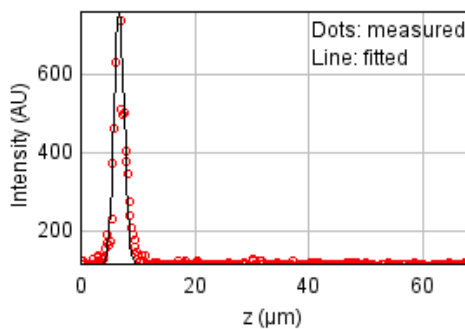B = 127.702   (background)
a = 0.612 px
b = 0.024 px
c = 0.312 px

xc = 5.927 px
yc = 6.257 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 138612.709
Standard deviation: 21.24870
R^2: 0.95325
Parameters:
a = 114.80242
b = 759.82186
c = 6.82253
d = 0.88402

Bead 227 (Rejected)

Date : Mon Oct 17 13:28:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -16.3 um (x), -53.0 um (y), 48.6 um (z)
Corresponding bead : Not found
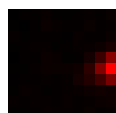Reason of rejection : R or C parameter off limits.

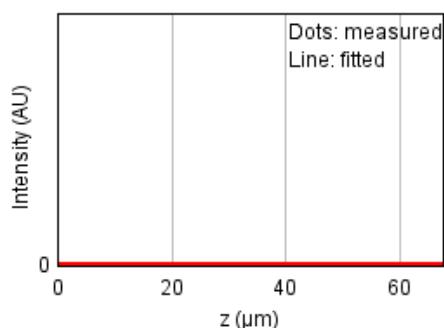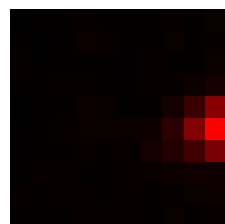| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

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
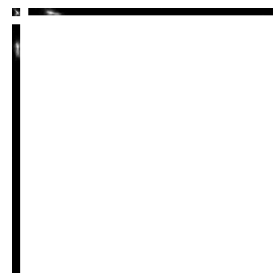 b = 0.00000E0
 c = -0.11115
 d = 0.11151

Bead 228

Date : Mon Oct 17 13:28:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 77.2 um (x), -62.7 um (y), 5.91 um (z)
Corresponding bead : Not found

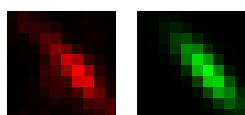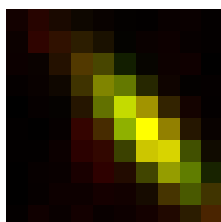| FWHM	Non corrected	Corrected	Theoretical
min	398 nm	411 nm	223 nm
max	1.29 um	1.34 um	223 nm
z	1.9 um	1.91 um	885 nm
Asymmetry	0.308		
Theta	-49.7°		

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 = 0.936

Parameters:
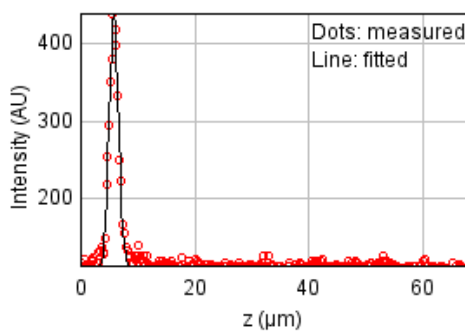 A = 312.278   (brightness)
 B = 125.327   (background)
 a = 0.528 px
 b = -0.379 px
 c = 0.401 px

xc = 5.933 px
yc = 5.118 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16320.7602
Standard deviation: 7.29123
R^2: 0.97584
Parameters:
 a = 112.96643
 b = 438.20364
 c = 5.91071
 d = 0.80777

Bead 229

Date : Mon Oct 17 13:28:03 PDT 2022
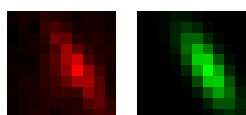Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 61.2 um (x), -67.3 um (y), 5.83 um (z)
Corresponding bead : Not found

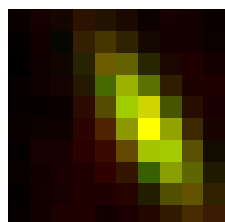| FWHM	Non corrected	Corrected	Theoretical
min	466 nm	481 nm	223 nm
max	1.29 um	1.33 um	223 nm
z	1.91 um	1.91 um	885 nm
Asymmetry	0.361		
Theta	-59.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.928$

Parameters:
 A = 272.961 (brightness)
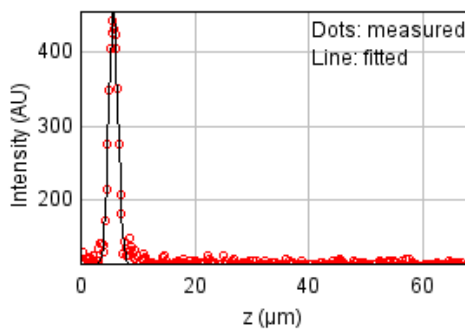 B = 122.614 (background)
 a = 0.476 px
 b = -0.238 px
 c = 0.224 px

 xc = 5.976 px
 yc = 4.875 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16894.7726
Standard deviation: 7.41834
R^2: 0.97765
Parameters:
 a = 113.21311
 b = 457.24285
 c = 5.82801
 d = 0.80932

Bead 230 (Rejected)

Date : Mon Oct 17 13:28:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -113 um (x), -86.6 um (y), 4.66 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

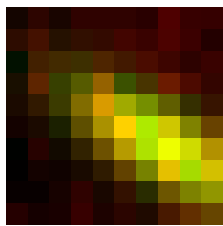| FWHM	Non corrected	Corrected	Theoretical
min	620 nm	641 nm	223 nm
max	1.75 um	1.81 um	223 nm
z	2.76 um	2.78 um	885 nm
Asymmetry	0.355		
Theta	-32.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
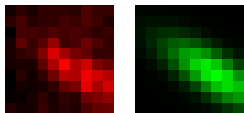
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.850$

Parameters:
 A = 102.858   (brightness)
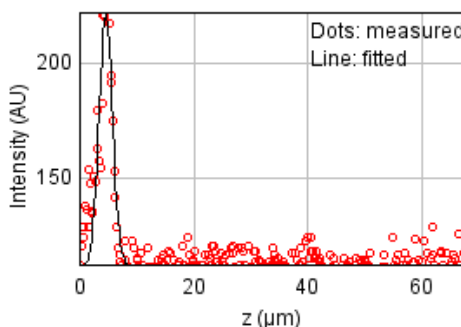 B = 118.444   (background)
 a = 0.132 px
 b = -0.138 px
 c = 0.261 px

xc = 6.800 px
yc = 5.858 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17424.9842
Standard deviation: 7.53385
R^2: 0.85857
Parameters:
 a = 112.35681
 b = 221.51596
 c = 4.66294
 d = 1.17399

Bead 231 (Rejected)

Date : Mon Oct 17 13:28:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
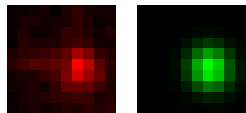Frame size : 10 pixels

Coordinates : -144 um (x), 65.9 um (y), 4.35 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

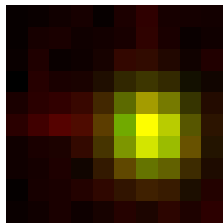| FWHM	Non corrected	Corrected	Theoretical
min	648 nm	669 nm	223 nm
max	683 nm	706 nm	223 nm
z	2.72 um	2.74 um	885 nm
Asymmetry	0.948		
Theta	-65.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.883$

Parameters:
 A = 116.687   (brightness)
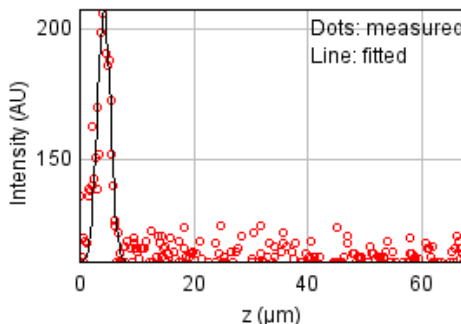 B = 112.108   (background)
 a = 0.315 px
 b = -0.012 px
 c = 0.293 px

xc = 6.157 px
yc = 5.333 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16062.4180
Standard deviation: 7.23330
R^2: 0.83629
Parameters:
 a = 110.40245
 b = 207.19035
 c = 4.35107
 d = 1.15718

Bead 232

Date : Mon Oct 17 13:28:04 PDT 2022
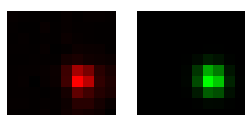Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 70.3 um (x), 39.9 um (y), 6.53 um (z)
Corresponding bead : Not found

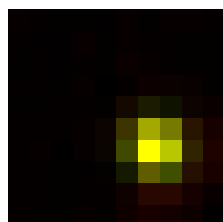| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	442 nm	457 nm	223 nm
z	1.64 um	1.64 um	885 nm
Asymmetry	0.946		
Theta	-55.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc)))+B$
   $R^2 = 0.965$

Parameters:
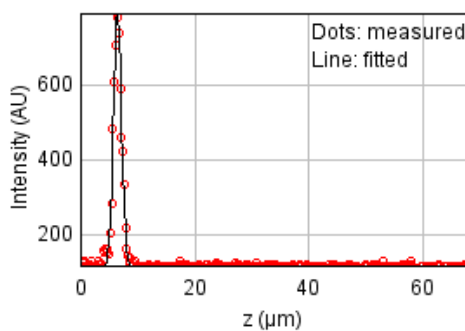 A = 707.804 (brightness)
 B = 121.216 (background)
 a = 0.741 px
 b = -0.038 px
 c = 0.713 px

xc = 6.322 px
yc = 5.807 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33114.4277
Standard deviation: 10.38579
R^2: 0.98697
Parameters:
 a = 113.88822
 b = 795.87595
 c = 6.53412
 d = 0.69448

Bead 233

Date : Mon Oct 17 13:28:04 PDT 2022
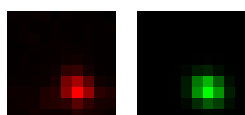Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

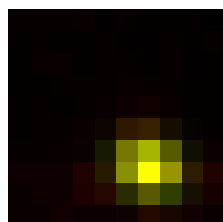Coordinates : -223 nm (x), 28.4 um (y), 7.19 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	443 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.87 um	1.87 um	885 nm
Asymmetry	0.843		
Theta	-24.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
A = 693.182 (brightness)
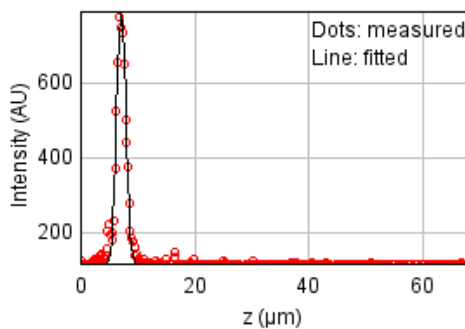B = 123.210 (background)
a = 0.555 px
b = -0.079 px
c = 0.697 px

xc = 5.984 px
yc = 6.744 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 57634.7712
Standard deviation: 13.70166
R^2: 0.97998
Parameters:
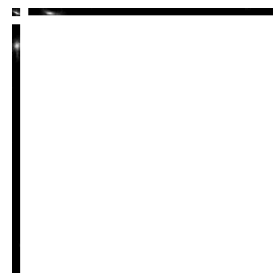a = 115.38526
b = 794.26263
c = 7.19046
d = 0.79281

Bead 234

Date : Mon Oct 17 13:28:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 128 um (x), -10.3 um (y), 5.9 um (z)
Corresponding bead : Not found

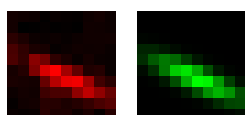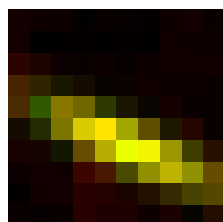| FWHM	Non corrected	Corrected	Theoretical
min	368 nm	381 nm	223 nm
max	1.53 um	1.58 um	223 nm
z	2.49 um	2.5 um	885 nm
Asymmetry	0.24		
Theta	-24.4°		

XY profile & fitting parameters :

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

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

Parameters:
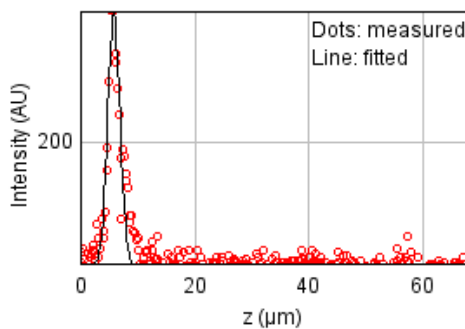 A = 200.771   (brightness)
 B = 116.172   (background)
 a = 0.216 px
 b = -0.351 px
 c = 0.829 px

xc = 5.003 px
yc = 5.760 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36394.6530
Standard deviation: 10.88804
R^2: 0.88246
Parameters:
 a = 111.68194
 b = 296.01764
 c = 5.90125
 d = 1.05651

Bead 235

Date : Mon Oct 17 13:28:04 PDT 2022
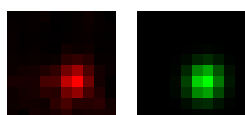Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -50.7 um (x), -17.4 um (y), 7.54 um (z)
Corresponding bead : Not found

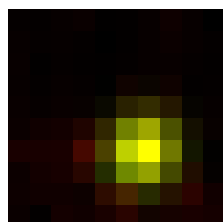| FWHM	Non corrected	Corrected	Theoretical
min	523 nm	541 nm	223 nm
max	555 nm	573 nm	223 nm
z	2.16 um	2.17 um	885 nm
Asymmetry	0.943		
Theta	63.7°		

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 = 0.931

Parameters:
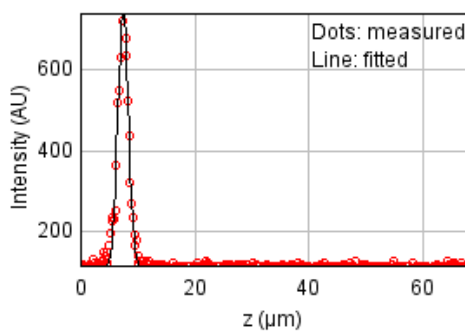A = 566.650   (brightness)
B = 128.766   (background)
a = 0.480 px
b = 0.021 px
c = 0.447 px

xc = 5.715 px
yc = 5.998 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 37028.2415
Standard deviation: 10.98240
R^2: 0.98681
Parameters:
a = 113.02897
b = 740.07228
c = 7.53914
d = 0.91905

Bead 236

Date : Mon Oct 17 13:28:04 PDT 2022
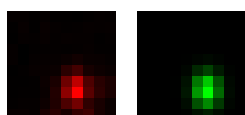Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 37.4 um (x), -19.3 um (y), 6.84 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	450 nm	223 nm
max	552 nm	571 nm	223 nm
z	1.65 um	1.65 um	885 nm
Asymmetry	0.788		
Theta	-89.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.948$

Parameters:
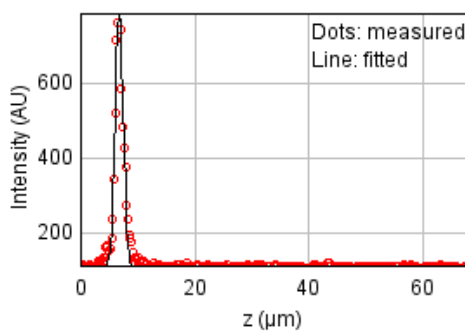A = 712.762   (brightness)
B = 121.106   (background)
a = 0.708 px
b = -0.003 px
c = 0.440 px

xc = 5.868 px
yc = 6.779 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 72960.2943
Standard deviation: 15.41609
R^2: 0.97123
Parameters:
a = 113.75097
b = 787.39891
c = 6.84301
d = 0.69921

Bead 237

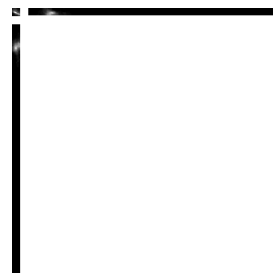Date : Mon Oct 17 13:28:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 161 um (x), -58.2 um (y), 6.02 um (z)
Corresponding bead : Not found

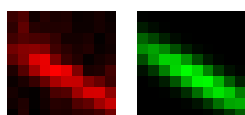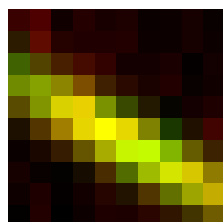| FWHM	Non corrected	Corrected	Theoretical
min	462 nm	478 nm	223 nm
max	2.66 um	2.75 um	223 nm
z	2.04 um	2.05 um	885 nm
Asymmetry	0.174		
Theta	-30.0°		

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 = 0.909

Parameters:
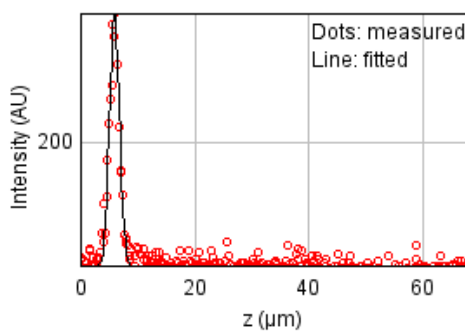 A = 147.496   (brightness)
 B = 119.634   (background)
 a = 0.171 px
 b = -0.263 px
 c = 0.475 px

xc = 4.980 px
yc = 5.628 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 14766.4554
Standard deviation: 6.93536
R^2: 0.93784
Parameters:
 a = 110.28934
 b = 293.14074
 c = 6.01683
 d = 0.86633

Bead 238 (Rejected)

Date : Mon Oct 17 13:28:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -159 um (x), -66.7 um (y), 5.07 um (z)
Corresponding bead : Not found
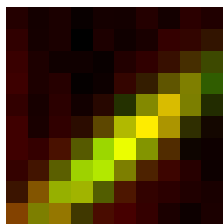Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	419 nm	223 nm
max	2.04 um	2.11 um	223 nm
z	1.31 um	1.31 um	885 nm
Asymmetry	0.198		
Theta	39.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
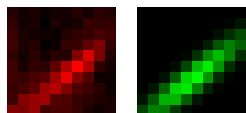
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.859$

Parameters:
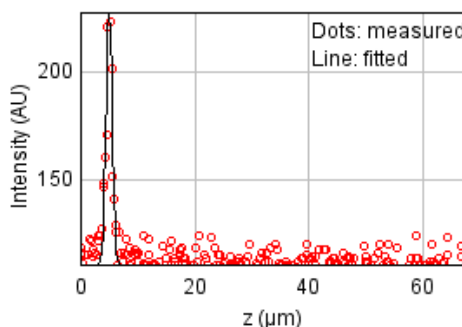A = 106.708 (brightness)
B = 116.546 (background)
a = 0.348 px
b = 0.385 px
c = 0.501 px

xc = 4.671 px
yc = 6.066 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12677.5732
Standard deviation: 6.42612
R^2: 0.82463
Parameters:
a = 110.64391
b = 227.71958
c = 5.06782
d = 0.55601

Bead 239 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
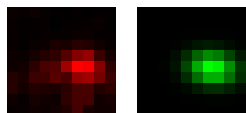Frame size : 10 pixels

Coordinates : -31.2 um (x), -70.4 um (y), 6.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

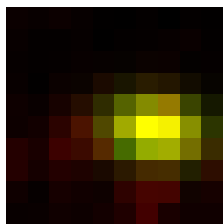| FWHM	Non corrected	Corrected	Theoretical
min	515 nm	532 nm	223 nm
max	767 nm	793 nm	223 nm
z	1.77 um	1.78 um	885 nm
Asymmetry	0.671		
Theta	-7.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.886$

Parameters:
A = 415.601   (brightness)
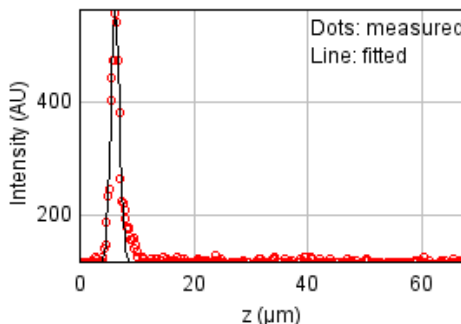B = 134.946   (background)
a = 0.232 px
b = -0.034 px
c = 0.503 px

xc = 6.391 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: 46914.2233
Standard deviation: 12.36184
R^2: 0.96211
Parameters:
a = 115.96479
b = 568.15075
c = 6.30453
d = 0.75287

Bead 240

Date : Mon Oct 17 13:28:05 PDT 2022
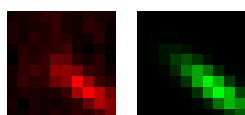Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 136 um (x), -72.1 um (y), 5.09 um (z)
Corresponding bead : Not found

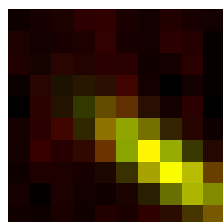| FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	1.32 um	1.37 um	223 nm
z	1.66 um	1.67 um	885 nm
Asymmetry	0.291		
Theta	-37.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.918$

Parameters:
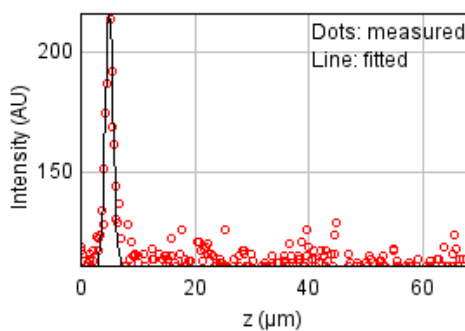A = 104.097   (brightness)
B = 113.600   (background)
a = 0.376 px
b = -0.396 px
c = 0.602 px

xc = 6.665 px
yc = 6.597 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 10612.8064
Standard deviation: 5.87957
R^2: 0.84821
Parameters:
a = 111.48691
b = 215.64406
c = 5.08610
d = 0.70448

Bead 241

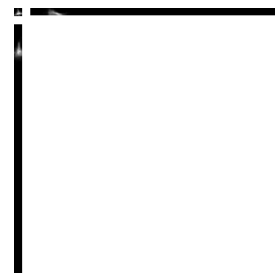Date : Mon Oct 17 13:28:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 17.0 um (x), -85.8 um (y), 6.91 um (z)
Corresponding bead : Not found

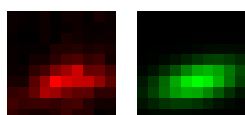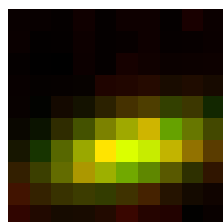| FWHM	Non corrected	Corrected	Theoretical
min	561 nm	580 nm	223 nm
max	1.31 um	1.36 um	223 nm
z	2.34 um	2.35 um	885 nm
Asymmetry	0.427		
Theta	12.8°		

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 = 237.383   (brightness)
 B = 120.330   (background)
 a = 0.095 px
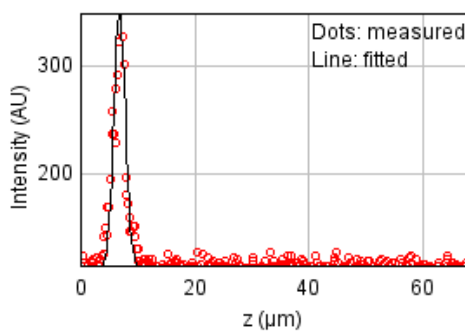 b = 0.075 px
 c = 0.409 px

xc = 5.099 px
yc = 5.984 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 48097.5490
Standard deviation: 12.51677
R^2: 0.89838
Parameters:
 a = 113.13410
 b = 349.85006
 c = 6.91315
 d = 0.99355

Bead 242 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
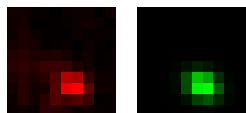Frame size : 10 pixels

Coordinates : -115 um (x), 78.2 um (y), 6.45 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

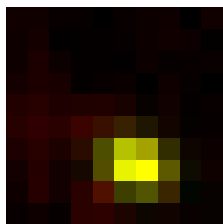| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	517 nm	534 nm	223 nm
z	2.51 um	2.52 um	885 nm
Asymmetry	0.777		
Theta	-22.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.898$

Parameters:
 A = 370.346   (brightness)
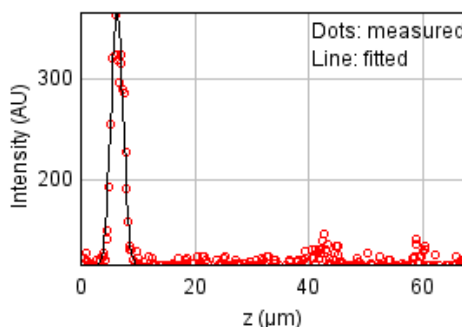 B = 125.468   (background)
 a = 0.550 px
 b = -0.116 px
 c = 0.785 px

xc = 5.484 px
yc = 6.713 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 42249.8082
Standard deviation: 11.73122
R^2: 0.92539
Parameters:
 a = 113.58827
 b = 367.90734
 c = 6.45432
 d = 1.06494

Bead 243 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -7.21 um (x), 68.5 um (y), 56.7 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

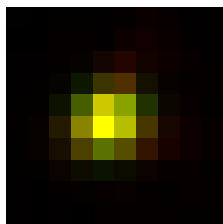| FWHM	Non corrected	Corrected	Theoretical
min	491 nm	508 nm	223 nm
max	543 nm	561 nm	223 nm
z	1.9 um	1.91 um	885 nm
Asymmetry	0.905		
Theta	30.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
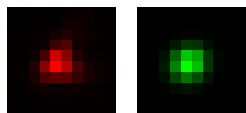
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.964$

Parameters:
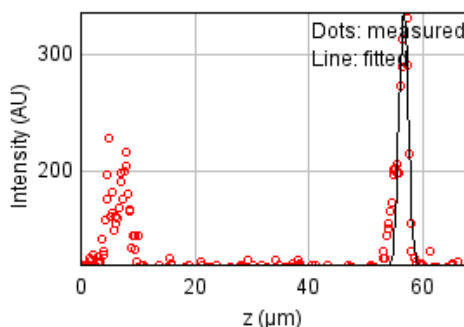 A = 1279.544   (brightness)
 B = 127.378   (background)
 a = 0.481 px
 b = 0.044 px
 c = 0.530 px

xc = 4.217 px
yc = 4.717 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 134829.225
Standard deviation: 20.95670
R^2: 0.68098
Parameters:
 a = 120.84537
 b = 335.83616
 c = 56.68564
 d = 0.80693

Bead 244 (Rejected)

Date : Mon Oct 17 13:28:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
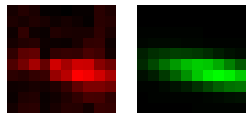Frame size : 10 pixels

Coordinates : 150 um (x), 52.4 um (y), 6.17 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

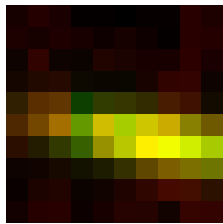| FWHM	Non corrected	Corrected	Theoretical
min	432 nm	447 nm	223 nm
max	1.78 um	1.84 um	223 nm
z	3.4 um	3.41 um	885 nm
Asymmetry	0.243		
Theta	-9.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 92.559   (brightness)
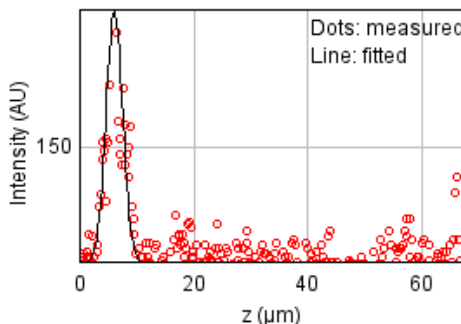 B = 113.488   (background)
 a = 0.061 px
 b = -0.110 px
 c = 0.700 px
xc = 6.512 px
yc = 5.711 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21481.6044
Standard deviation: 8.36497
R^2: 0.78398
Parameters:
 a = 111.03969
 b = 196.17778
 c = 6.17251
 d = 1.44404

Bead 245

Date : Mon Oct 17 13:28:05 PDT 2022
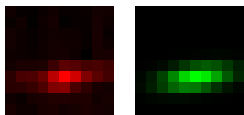Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -157 um (x), 36.5 um (y), 5.85 um (z)
Corresponding bead : Not found

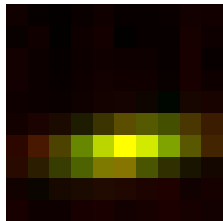| FWHM	Non corrected	Corrected	Theoretical
min	366 nm	379 nm	223 nm
max	1.06 um	1.1 um	223 nm
z	1.9 um	1.9 um	885 nm
Asymmetry	0.345		
Theta	7.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.944$

Parameters:
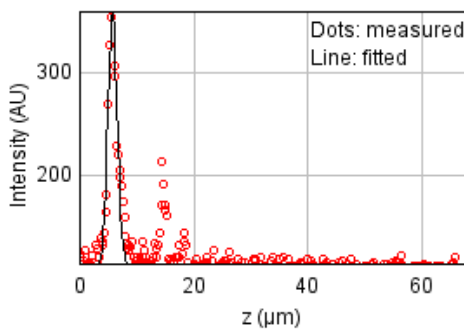A = 251.827   (brightness)
B = 115.238   (background)
a = 0.135 px
b = 0.115 px
c = 0.985 px

xc = 5.101 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: 67746.0175
Standard deviation: 14.85500
R^2: 0.84773
Parameters:
 a = 113.97393
 b = 360.25434
 c = 5.85373
 d = 0.80577

Bead 246

Date : Mon Oct 17 13:28:06 PDT 2022
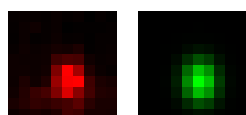Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 4.44 um (x), 8.8 um (y), 7.32 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	541 nm	559 nm	223 nm
max	672 nm	695 nm	223 nm
z	2.22 um	2.23 um	885 nm
Asymmetry	0.805		
Theta	-87.3°		

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 = 0.929
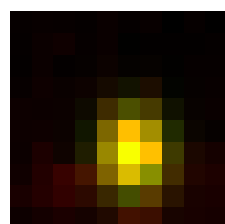
Parameters:
A = 486.258   (brightness)
B = 126.215   (background)
a = 0.458 px
b = -0.007 px
c = 0.297 px

xc = 5.189 px
yc = 5.991 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 120565.200
Standard deviation: 19.81718
R^2: 0.95506
Parameters:
 a = 114.49403
 b = 709.62887
 c = 7.32093
 d = 0.94470

Bead 247

Date : Mon Oct 17 13:28:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

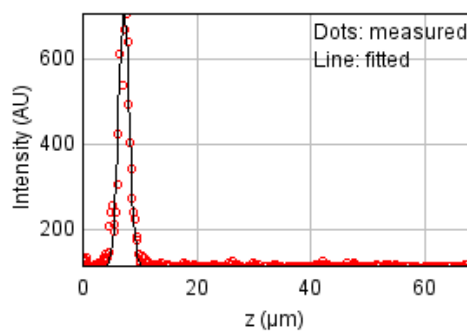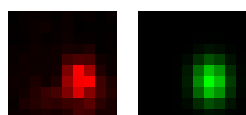Coordinates : 4.44 um (x), 8.8 um (y), 7.32 um (z)
Corresponding bead : Not found

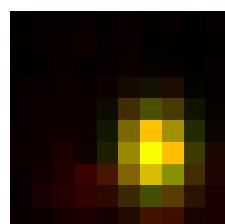| FWHM	Non corrected	Corrected	Theoretical
min	545 nm	563 nm	223 nm
max	677 nm	700 nm	223 nm
z	2.22 um	2.23 um	885 nm
Asymmetry	0.804		
Theta	-87.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.931$

Parameters:
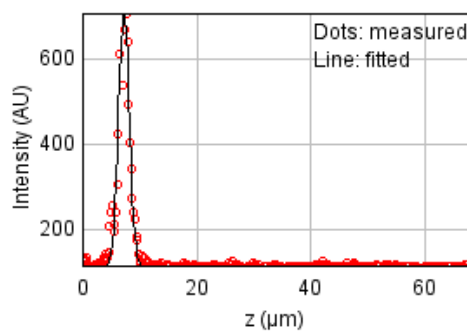A = 486.229   (brightness)
B = 124.530   (background)
a = 0.452 px
b = -0.007 px
c = 0.293 px

xc = 6.188 px
yc = 5.993 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 120565.200
Standard deviation: 19.81718
R^2: 0.95506
Parameters:
a = 114.49403
b = 709.62887
c = 7.32093
d = 0.94470

Bead 248 (Rejected)

Date : Mon Oct 17 13:28:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -2.86 um (x), 2.2 um (y), 37.4 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

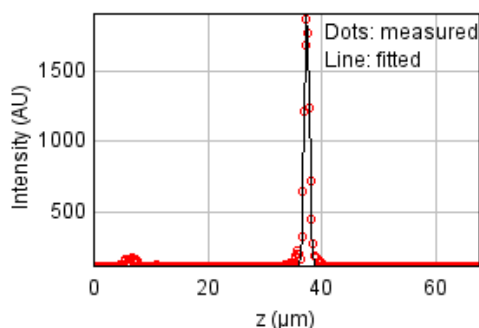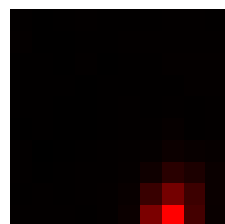| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.06 um	1.07 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 117864.145
Standard deviation: 19.59394
R^2: 0.98971
Parameters:
 a = 119.62668
 b = 1905.50169
 c = 37.42095
 d = 0.45209

Bead 249

Date : Mon Oct 17 13:28:06 PDT 2022
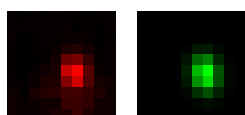Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -7.1 um (x), -30.2 um (y), 6.59 um (z)
Corresponding bead : Not found

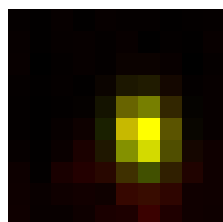| FWHM	Non corrected	Corrected	Theoretical
min	430 nm	444 nm	223 nm
max	564 nm	583 nm	223 nm
z	1.72 um	1.73 um	885 nm
Asymmetry	0.762		
Theta	-81.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.932$

Parameters:
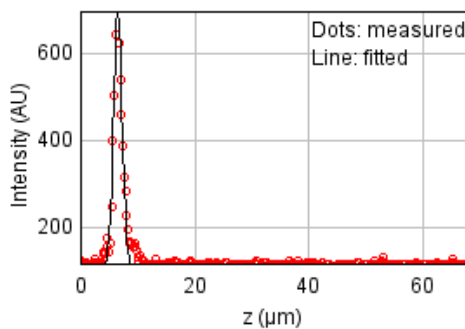A = 626.389   (brightness)
B = 128.698   (background)
a = 0.720 px
b = -0.043 px
c = 0.428 px

xc = 5.742 px
yc = 5.292 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 59823.6345
Standard deviation: 13.95941
R^2: 0.96988
Parameters:
 a = 113.96971
 b = 696.97279
 c = 6.59375
 d = 0.73154

Bead 250 (Rejected)

Date : Mon Oct 17 13:28:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
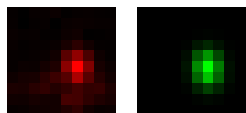
Coordinates : -20.2 um (x), -37.2 um (y), 6.85 um (z)
Corresponding bead : Not found
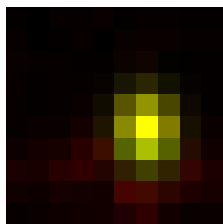Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	463 nm	223 nm
max	574 nm	594 nm	223 nm
z	1.64 um	1.65 um	885 nm
Asymmetry	0.78		
Theta	-85.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.886$

Parameters:
 A = 552.877   (brightness)
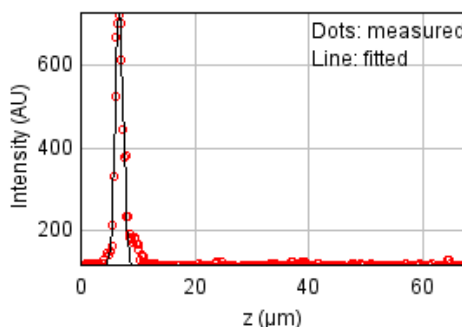 B = 136.574   (background)
 a = 0.668 px
 b = -0.020 px
 c = 0.409 px

xc = 5.964 px
yc = 5.153 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 74687.4127
Standard deviation: 15.59748
R^2: 0.96461
Parameters:
 a = 115.79321
 b = 728.61707
 c = 6.85046
 d = 0.69843

Bead 251 (Rejected)

Date : Mon Oct 17 13:28:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 10.1 um (x), -41.8 um (y), 7.46 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

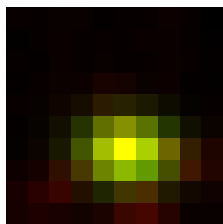| FWHM	Non corrected	Corrected	Theoretical
min	545 nm	564 nm	223 nm
max	729 nm	753 nm	223 nm
z	2.52 um	2.53 um	885 nm
Asymmetry	0.748		
Theta	-5.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
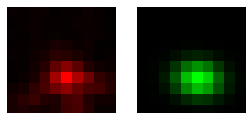
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.900$

Parameters:
 A = 502.010   (brightness)
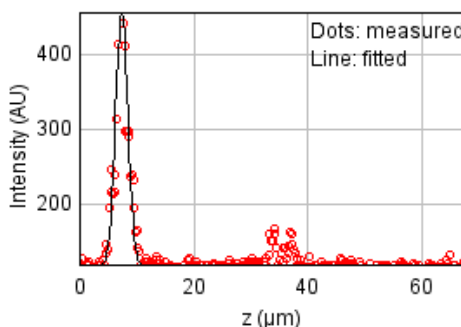 B = 126.978   (background)
 a = 0.254 px
 b = -0.017 px
 c = 0.450 px

xc = 5.096 px
yc = 6.135 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 88041.9336
Standard deviation: 16.93463
R^2: 0.91487
Parameters:
 a = 116.79542
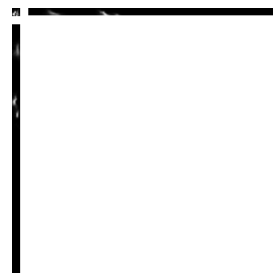 b = 457.61852
 c = 7.46097
 d = 1.07101

Bead 252

Date : Mon Oct 17 13:28:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -82.6 um (x), -64.0 um (y), 20.6 um (z)
Corresponding bead : Not found

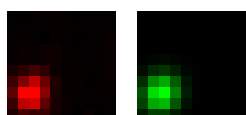| FWHM	Non corrected	Corrected	Theoretical
min	549 nm	568 nm	223 nm
max	614 nm	635 nm	223 nm
z	1.13 um	1.13 um	885 nm
Asymmetry	0.894		
Theta	63.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.986$

Parameters:
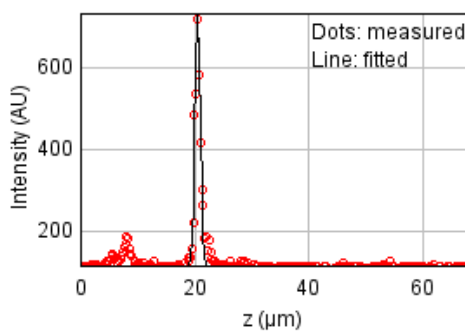A = 681.804 (brightness)
B = 116.083 (background)
a = 0.426 px
b = 0.036 px
c = 0.374 px

xc = 1.671 px
yc = 7.090 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 84892.9016
Standard deviation: 16.62901
R^2: 0.94565
Parameters:
a = 117.08615
b = 743.45947
c = 20.58304
d = 0.47928

Bead 253

Date : Mon Oct 17 13:28:06 PDT 2022
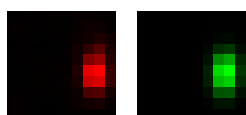Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -47.2 um (x), -63.8 um (y), 63.9 um (z)
Corresponding bead : Not found

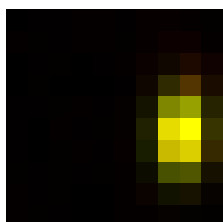| FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	636 nm	657 nm	223 nm
z	1.13 um	1.13 um	885 nm
Asymmetry	0.617		
Theta	87.7°		

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 = 0.988

Parameters:
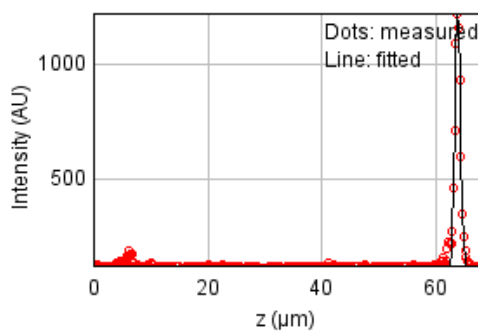 A = 1328.463   (brightness)
 B = 118.427   (background)
 a = 0.872 px
 b = 0.022 px
 c = 0.333 px

xc = 7.582 px
yc = 5.209 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 79812.1196
Standard deviation: 16.12372
R^2: 0.98316
Parameters:
 a = 118.04277
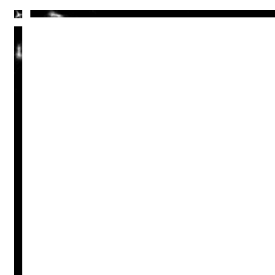 b = 1231.61802
 c = 63.85874
 d = 0.47824

Bead 254

Date : Mon Oct 17 13:28:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 53.3 um (x), -75.0 um (y), 7.02 um (z)
Corresponding bead : Not found

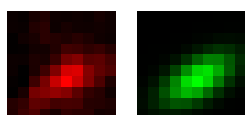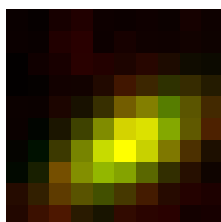| FWHM	Non corrected	Corrected	Theoretical
min	581 nm	601 nm	223 nm
max	1.17 um	1.21 um	223 nm
z	2.23 um	2.24 um	885 nm
Asymmetry	0.496		
Theta	30.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.920$

Parameters:
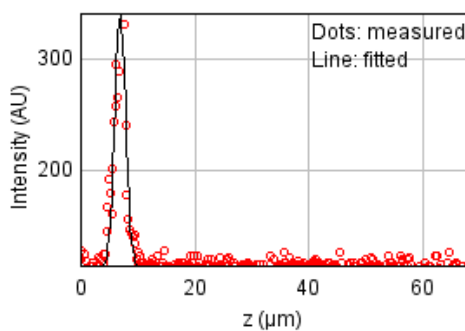 A = 208.886 (brightness)
 B = 122.466 (background)
 a = 0.177 px
 b = 0.132 px
 c = 0.319 px

 xc = 5.115 px
 yc = 5.751 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 34575.3793
Standard deviation: 10.61242
R^2: 0.91592
Parameters:
 a = 113.35272
 b = 341.05987
 c = 7.02032
 d = 0.94871

Bead 255 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
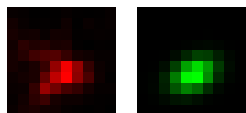Frame size : 10 pixels

Coordinates : -107 um (x), 90.7 um (y), 7.26 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	473 nm	489 nm	223 nm
max	716 nm	740 nm	223 nm
z	2.23 um	2.24 um	885 nm
Asymmetry	0.661		
Theta	25.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.878$
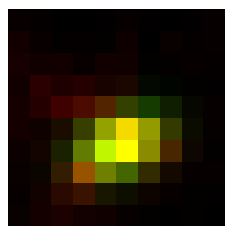
Parameters:
 A = 395.730   (brightness)
 B = 129.081   (background)
 a = 0.325 px
 b = 0.131 px
 c = 0.537 px

xc = 4.671 px
yc = 5.725 px

Z profile & fitting parameters:
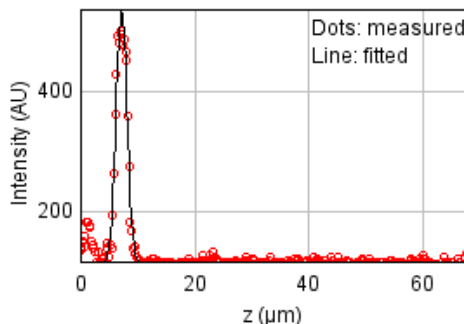
Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 61466.8415
Standard deviation: 14.14983
R^2: 0.95490
Parameters:
 a = 114.37607
 b = 538.11746
 c = 7.26200
 d = 0.94660

Bead 256 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -63.7 um (x), 31.4 um (y), 8.05 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

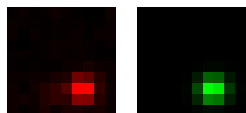| FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	445 nm	460 nm	223 nm
z	3.03 um	3.04 um	885 nm
Asymmetry	0.912		
Theta	2.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.965$
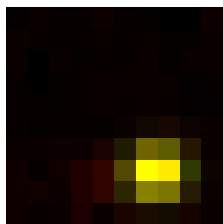
Parameters:
 A = 564.956 (brightness)
 B = 121.848 (background)
 a = 0.678 px
 b = 0.005 px
 c = 0.815 px

xc = 6.436 px
yc = 7.078 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 83083.2222
Standard deviation: 16.45082
R^2: 0.79057
Parameters:
 a = 114.18680
 b = 294.28282
 c = 8.05490
 d = 1.28679

Bead 257 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -141 um (x), 21.7 um (y), 7.18 um (z)
Corresponding bead : Not found
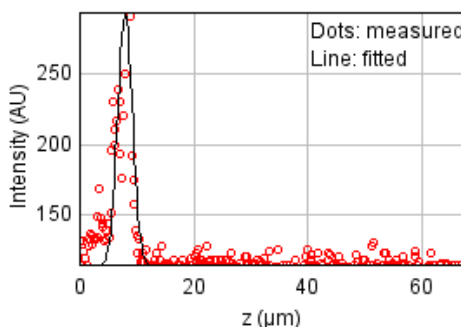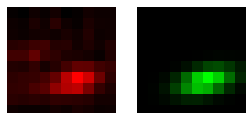Reason of rejection : R or C parameter off limits.

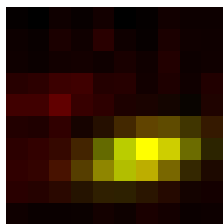| FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	860 nm	889 nm	223 nm
z	3.01 um	3.02 um	885 nm
Asymmetry	0.452		
Theta	13.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.873$

Parameters:
 A = 321.191   (brightness)
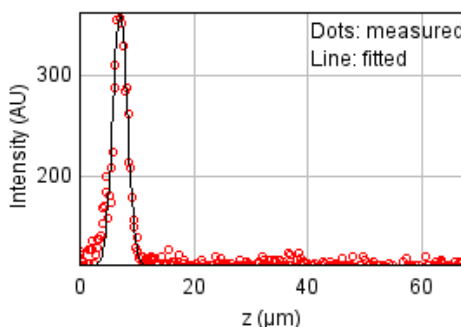 B = 139.743   (background)
 a = 0.218 px
 b = 0.155 px
 c = 0.852 px

xc = 5.783 px
yc = 6.313 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31285.0247
Standard deviation: 10.09483
R^2: 0.95065
Parameters:
 a = 112.02064
 b = 362.55889
 c = 7.18161
 d = 1.27712

Bead 258

Date : Mon Oct 17 13:28:07 PDT 2022
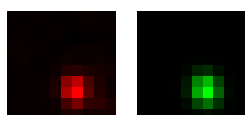Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 69.7 um (x), 17.4 um (y), 7.74 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	433 nm	448 nm	223 nm
max	488 nm	505 nm	223 nm
z	1.72 um	1.72 um	885 nm
Asymmetry	0.887		
Theta	-77.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.976$

Parameters:
 A = 887.260   (brightness)
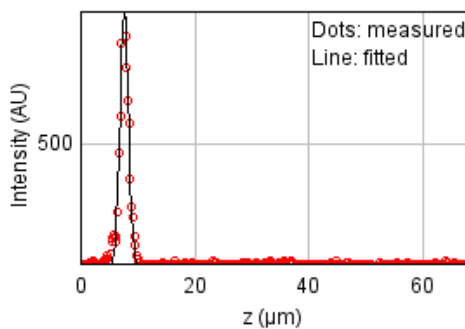 B = 122.951   (background)
 a = 0.708 px
 b = -0.031 px
 c = 0.570 px

xc = 5.790 px
yc = 6.770 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 63282.9474
Standard deviation: 14.35735
R^2: 0.98330
Parameters:
 a = 114.36998
 b = 926.33918
 c = 7.73696
 d = 0.72941

Bead 259 (Rejected)

Date : Mon Oct 17 13:28:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
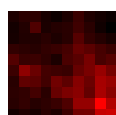Frame size : 10 pixels

Coordinates : 121 um (x), -3.52 um (y), 3.96 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

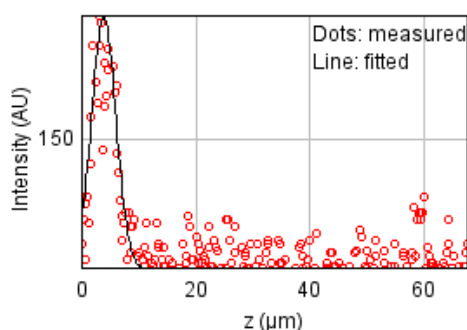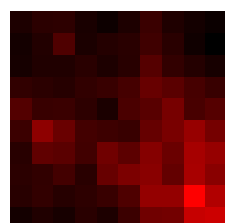| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	5.01 um	5.03 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 27158.2026
Standard deviation: 9.40549
R^2: 0.76221
Parameters:
 a = 111.27627
 b = 186.73931
 c = 3.95506
 d = 2.12863

Bead 260 (Rejected)

Date : Mon Oct 17 13:28:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
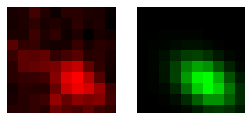
Coordinates : 113 um (x), -4.71 um (y), 7.0 um (z)
Corresponding bead : Not found
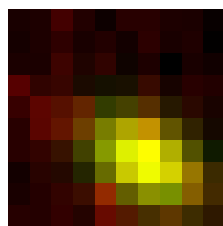Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	629 nm	650 nm	223 nm
max	963 nm	996 nm	223 nm
z	3.2 um	3.21 um	885 nm
Asymmetry	0.653		
Theta	-33.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.841$

Parameters:
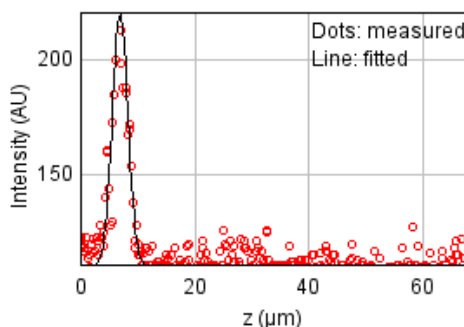 A = 104.116   (brightness)
 B = 116.088   (background)
 a = 0.204 px
 b = -0.090 px
 c = 0.280 px

 xc = 5.804 px
 yc = 6.427 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19772.4432
Standard deviation: 8.02529
R^2: 0.86206
Parameters:
 a = 110.27678
 b = 220.49800
 c = 7.00025
 d = 1.35906

Bead 261

Date : Mon Oct 17 13:28:08 PDT 2022
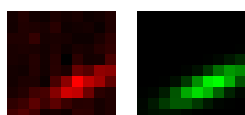Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -144 um (x), -36.8 um (y), 4.69 um (z)
Corresponding bead : Not found

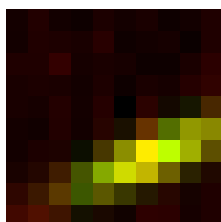| FWHM	Non corrected	Corrected	Theoretical
min	359 nm	371 nm	223 nm
max	1.35 um	1.4 um	223 nm
z	2.63 um	2.64 um	885 nm
Asymmetry	0.265		
Theta	22.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.902$

Parameters:
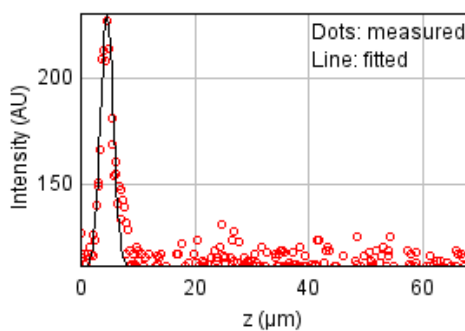 A = 134.595   (brightness)
 B = 114.141   (background)
 a = 0.218 px
 b = 0.345 px
 c = 0.895 px

xc = 6.264 px
yc = 6.250 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17440.7115
Standard deviation: 7.53725
R^2: 0.87586
Parameters:
 a = 110.77257
 b = 231.32893
 c = 4.69470
 d = 1.11610

Bead 262 (Rejected)

Date : Mon Oct 17 13:28:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 162 um (x), -58.4 um (y), 5.26 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

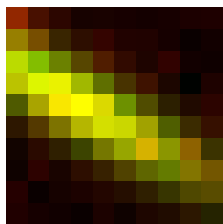| FWHM	Non corrected	Corrected	Theoretical
min	553 nm	571 nm	223 nm
max	2.71 um	2.81 um	223 nm
z	1.95 um	1.96 um	885 nm
Asymmetry	0.204		
Theta	-30.4°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
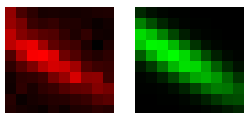
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.921$

Parameters:
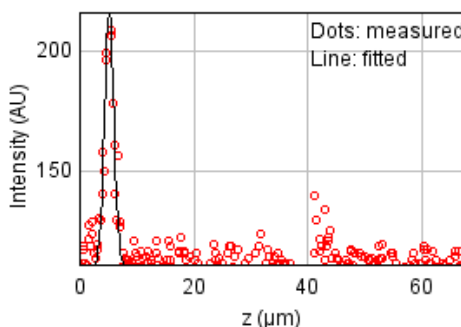 A = 125.099   (brightness)
 B = 115.452   (background)
 a = 0.126 px
 b = -0.184 px
 c = 0.332 px

xc = 2.317 px
yc = 3.610 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 13602.0270
Standard deviation: 6.65630
R^2: 0.83899
Parameters:
 a = 110.74625
 b = 216.13394
 c = 5.25938
 d = 0.82794

Bead 263

Date : Mon Oct 17 13:28:08 PDT 2022
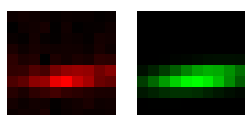Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 140 um (x), 79.9 um (y), 6.36 um (z)
Corresponding bead : Not found

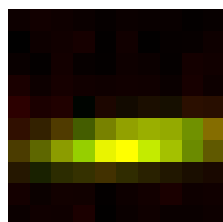| FWHM	Non corrected	Corrected	Theoretical
min	346 nm	358 nm	223 nm
max	1.57 um	1.62 um	223 nm
z	2.41 um	2.42 um	885 nm
Asymmetry	0.221		
Theta	4.5°		

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 = 0.959

Parameters:
A = 219.423   (brightness)
B = 115.592   (background)
a = 0.061 px
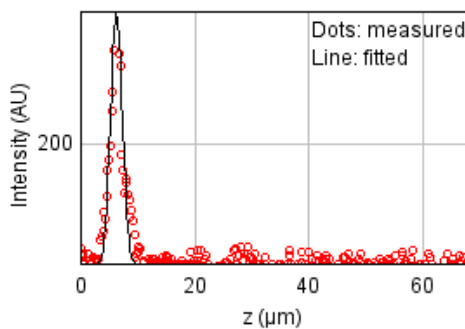b = 0.083 px
c = 1.113 px

xc = 5.283 px
yc = 5.686 px

Z profile & fitting parameters:

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

Sum of residuals squared: 25474.1775
Standard deviation: 9.10921
R^2: 0.91527
Parameters:
a = 110.99774
b = 298.62418
c = 6.35567
d = 1.02523

Bead 264

Date : Mon Oct 17 13:28:08 PDT 2022
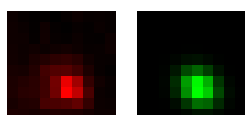Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -89.3 um (x), 64.6 um (y), 7.32 um (z)
Corresponding bead : Not found

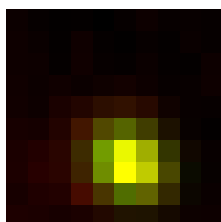| FWHM	Non corrected	Corrected	Theoretical
min	523 nm	541 nm	223 nm
max	614 nm	634 nm	223 nm
z	1.91 um	1.91 um	885 nm
Asymmetry	0.853		
Theta	-38.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.922$

Parameters:
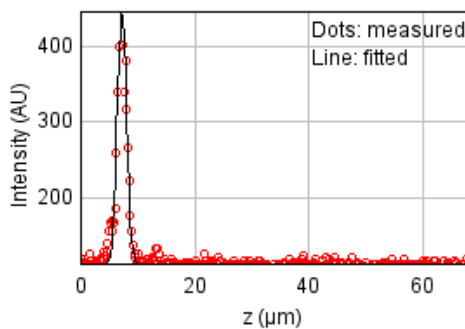A = 393.445 (brightness)
B = 124.583 (background)
a = 0.408 px
b = -0.065 px
c = 0.439 px

xc = 5.151 px
yc = 6.555 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30260.9204
Standard deviation: 9.92823
R^2: 0.95816
Parameters:
a = 113.20378
b = 446.32268
c = 7.31751
d = 0.80945

Bead 265

Date : Mon Oct 17 13:28:08 PDT 2022
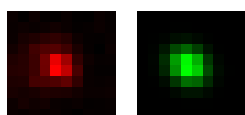Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -89.3 um (x), 64.6 um (y), 7.32 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	522 nm	540 nm	223 nm
max	612 nm	633 nm	223 nm
z	1.91 um	1.91 um	885 nm
Asymmetry	0.853		
Theta	-37.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.928$
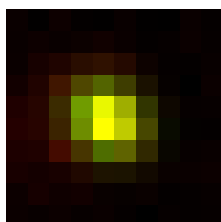
Parameters:
 A = 393.875   (brightness)
 B = 124.622   (background)
 a = 0.408 px
 b = -0.065 px
 c = 0.441 px

xc = 4.151 px
yc = 4.555 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 30260.9204
Standard deviation: 9.92823
R^2: 0.95816
Parameters:
 a = 113.20378
 b = 446.32268
 c = 7.31751
 d = 0.80945

Bead 266

Date : Mon Oct 17 13:28:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

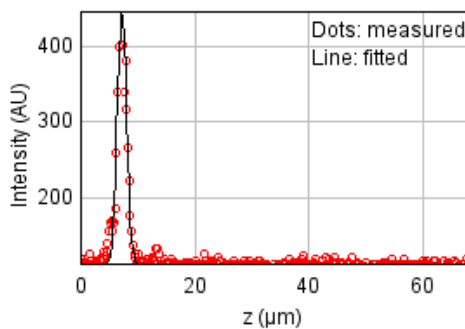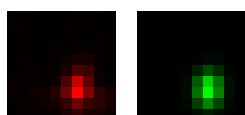Coordinates : 21.8 um (x), 61.0 um (y), 7.8 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	428 nm	442 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.66 um	1.66 um	885 nm
Asymmetry	0.768		
Theta	87.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 855.953   (brightness)
 B = 133.262   (background)
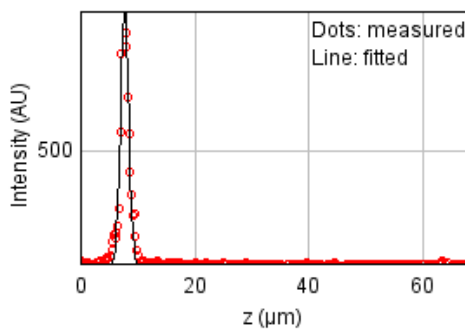 a = 0.733 px
 b = 0.015 px
 c = 0.433 px

xc = 6.056 px
yc = 6.731 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 108747.308
Standard deviation: 18.82089
R^2: 0.97392
Parameters:
 a = 115.50203
 b = 978.22097
 c = 7.80230
 d = 0.70312

Bead 267 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 150 um (x), 52.5 um (y), 5.54 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

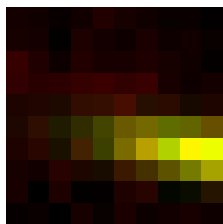| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	1.8 um	1.86 um	223 nm
z	2.0 um	2.01 um	885 nm
Asymmetry	0.225		
Theta	-9.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
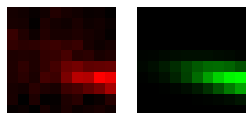
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.908$

Parameters:
 A = 149.373 (brightness)
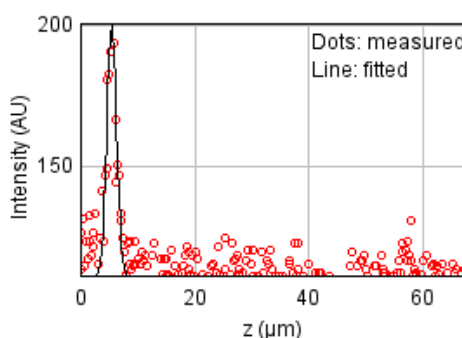 B = 115.975 (background)
 a = 0.061 px
 b = -0.121 px
 c = 0.803 px

xc = 9.311 px
yc = 6.262 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15865.3132
Standard deviation: 7.18878
R^2: 0.76631
Parameters:
 a = 111.27565
 b = 200.48295
 c = 5.53525
 d = 0.84917

Bead 268

Date : Mon Oct 17 13:28:09 PDT 2022
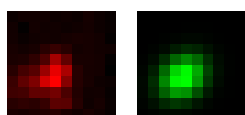Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -63.9 um (x), 31.5 um (y), 7.23 um (z)
Corresponding bead : Not found

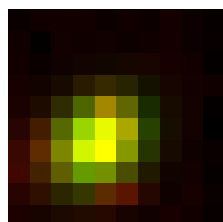| FWHM	Non corrected	Corrected	Theoretical
min	621 nm	642 nm	223 nm
max	766 nm	792 nm	223 nm
z	2.04 um	2.05 um	885 nm
Asymmetry	0.811		
Theta	40.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.902$

Parameters:
 A = 297.234   (brightness)
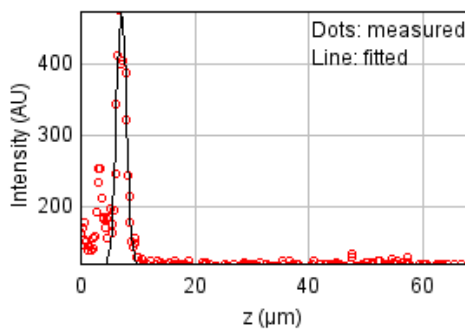 B = 119.121   (background)
 a = 0.279 px
 b = 0.059 px
 c = 0.298 px

xc = 3.661 px
yc = 5.601 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 146261.439
Standard deviation: 21.82708
R^2: 0.85333
Parameters:
 a = 117.93805
 b = 474.97368
 c = 7.22721
 d = 0.86802

Bead 269

Date : Mon Oct 17 13:28:09 PDT 2022
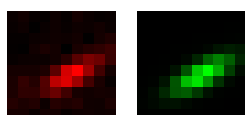Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -130 um (x), -10.4 um (y), 6.52 um (z)
Corresponding bead : Not found

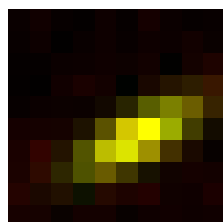| FWHM	Non corrected	Corrected	Theoretical
min	370 nm	382 nm	223 nm
max	1.01 um	1.05 um	223 nm
z	1.56 um	1.56 um	885 nm
Asymmetry	0.364		
Theta	28.3°		

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
  $R^2 = 0.965$

Parameters:
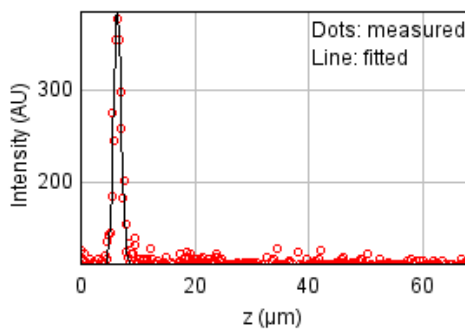 A = 267.749   (brightness)
 B = 118.494   (background)
 a = 0.321 px
 b = 0.355 px
 c = 0.790 px

  xc = 5.483 px
  yc = 5.369 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20624.0262
Standard deviation: 8.19629
R^2: 0.94980
Parameters:
 a = 111.63350
 b = 386.97732
 c = 6.52201
 d = 0.66170

Bead 270 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 139 um (x), -24.6 um (y), 6.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

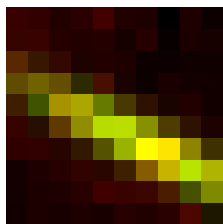| FWHM	Non corrected	Corrected	Theoretical
min	369 nm	382 nm	223 nm
max	2.27 um	2.35 um	223 nm
z	1.99 um	2.0 um	885 nm
Asymmetry	0.162		
Theta	-26.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
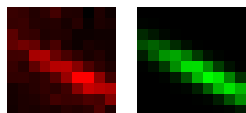
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.910$

Parameters:
 A = 122.769   (brightness)
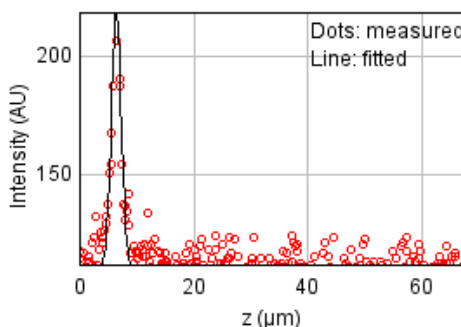 B = 116.087   (background)
 a = 0.222 px
 b = -0.387 px
 c = 0.788 px

xc = 6.136 px
yc = 5.927 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 13948.3202
Standard deviation: 6.74049
R^2: 0.84361
Parameters:
 a = 111.79672
 b = 219.30235
 c = 6.50324
 d = 0.84547

Bead 271 (Rejected)

Date : Mon Oct 17 13:28:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 10.1 um (x), -41.8 um (y), 7.46 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

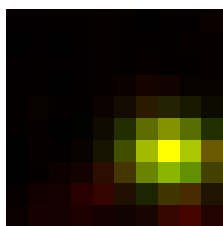| FWHM	Non corrected	Corrected	Theoretical
min	547 nm	565 nm	223 nm
max	691 nm	714 nm	223 nm
z	2.52 um	2.53 um	885 nm
Asymmetry	0.792		
Theta	-3.2°		

XY profile & fitting parameters :

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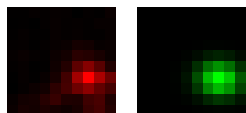
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.911$

Parameters:
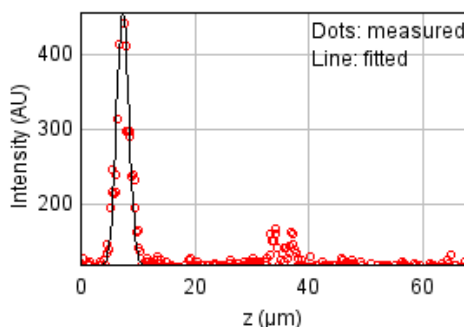 A = 512.750 (brightness)
 B = 126.700 (background)
 a = 0.282 px
 b = -0.009 px
 c = 0.448 px

xc = 7.059 px
yc = 6.124 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 88041.9336
Standard deviation: 16.93463
R^2: 0.91487
Parameters:
 a = 116.79542
 b = 457.61852
 c = 7.46097
 d = 1.07101

Bead 272

Date : Mon Oct 17 13:28:09 PDT 2022
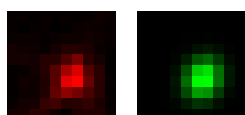Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -98.9 um (x), -50.1 um (y), 7.14 um (z)
Corresponding bead : Not found

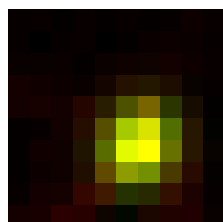| FWHM	Non corrected	Corrected	Theoretical
min	552 nm	571 nm	223 nm
max	647 nm	669 nm	223 nm
z	1.36 um	1.36 um	885 nm
Asymmetry	0.854		
Theta	62.9°		

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
  $R^2 = 0.939$

Parameters:
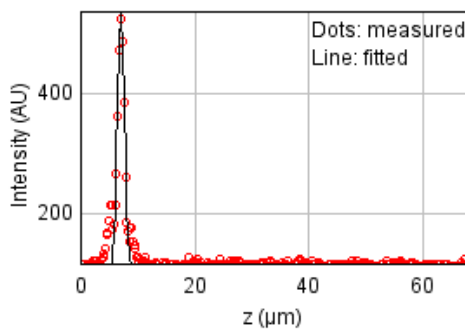 A = 448.444   (brightness)
 B = 128.741   (background)
 a = 0.415 px
 b = 0.048 px
 c = 0.346 px

xc = 5.550 px
yc = 5.735 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 59508.1658
Standard deviation: 13.92256
R^2: 0.93291
Parameters:
 a = 114.55005
 b = 542.99582
 c = 7.14474
 d = 0.57698

Bead 273

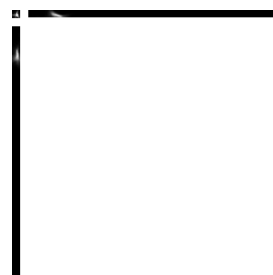Date : Mon Oct 17 13:28:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -75.8 um (x), -67.9 um (y), 7.79 um (z)
Corresponding bead : Not found
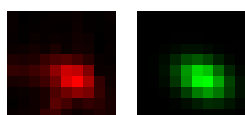
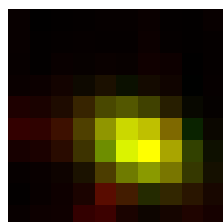| FWHM	Non corrected	Corrected	Theoretical
min	556 nm	574 nm	223 nm
max	809 nm	836 nm	223 nm
z	1.4 um	1.41 um	885 nm
Asymmetry	0.687		
Theta	-24.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.917$

Parameters:
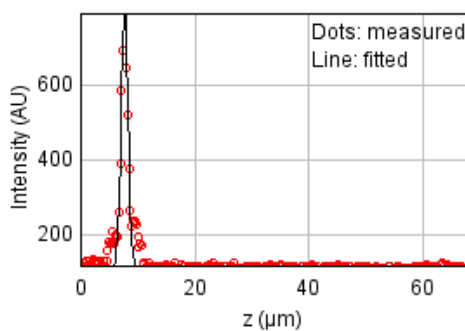A = 660.016   (brightness)
B = 137.508   (background)
a = 0.244 px
b = -0.086 px
c = 0.396 px

xc = 5.519 px
yc = 5.757 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 126861.610
Standard deviation: 20.32806
R^2: 0.94445
Parameters:
 a = 116.98845
 b = 797.63736
 c = 7.79431
 d = 0.59645

Bead 274 (Rejected)

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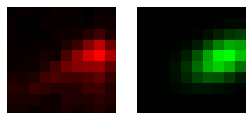Frame size : 10 pixels

Coordinates : 14.6 um (x), -71.8 um (y), 10.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

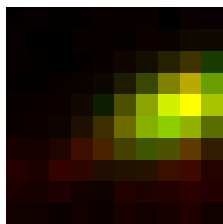| FWHM	Non corrected	Corrected	Theoretical
min	558 nm	577 nm	223 nm
max	1.05 um	1.09 um	223 nm
z	1.97 um	1.98 um	885 nm
Asymmetry	0.529		
Theta	21.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.894$

Parameters:
 A = 452.308   (brightness)
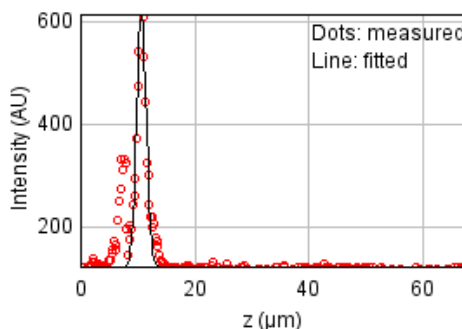 B = 136.175   (background)
 a = 0.163 px
 b = 0.106 px
 c = 0.389 px

xc = 7.582 px
yc = 4.147 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 296916.360
Standard deviation: 31.09910
R^2: 0.84113
Parameters:
 a = 120.44331
 b = 613.72964
 c = 10.74684
 d = 0.83864

Bead 275 (Rejected)

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

Coordinates : -12.8 um (x), -72.2 um (y), 16.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

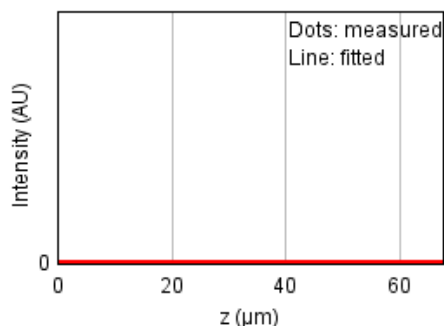| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

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 276 (Rejected)

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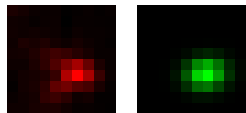Frame size : 10 pixels

Coordinates : -98.6 um (x), 81.0 um (y), 7.83 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

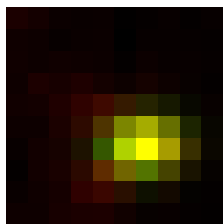| FWHM	Non corrected	Corrected	Theoretical
min	475 nm	491 nm	223 nm
max	626 nm	648 nm	223 nm
z	2.13 um	2.14 um	885 nm
Asymmetry	0.758		
Theta	6.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.898$

Parameters:
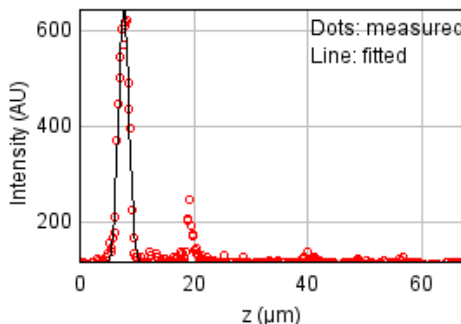 A = 449.884   (brightness)
 B = 131.640   (background)
 a = 0.345 px
 b = 0.027 px
 c = 0.592 px

xc = 5.795 px
yc = 5.842 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 99047.6237
Standard deviation: 17.96192
R^2: 0.95160
Parameters:
 a = 114.97392
 b = 644.68121
 c = 7.82832
 d = 0.90418

Bead 277

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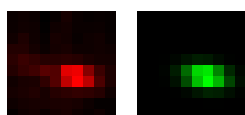Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -140 um (x), 69.4 um (y), 6.87 um (z)
Corresponding bead : Not found

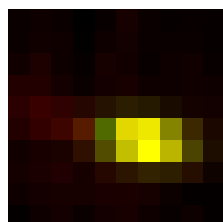| FWHM	Non corrected	Corrected	Theoretical
min	355 nm	367 nm	223 nm
max	668 nm	691 nm	223 nm
z	2.23 um	2.24 um	885 nm
Asymmetry	0.532		
Theta	-8.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.936$

Parameters:
 A = 392.099   (brightness)
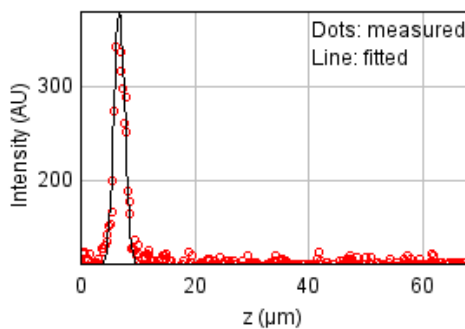 B = 123.851   (background)
 a = 0.317 px
 b = -0.109 px
 c = 1.046 px

xc = 5.792 px
yc = 5.526 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27824.7766
Standard deviation: 9.52021
R^2: 0.94975
Parameters:
 a = 111.60893
 b = 380.69529
 c = 6.86646
 d = 0.94864

Bead 278

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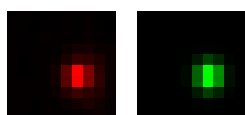Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 56.1 um (x), 60.6 um (y), 7.91 um (z)
Corresponding bead : Not found

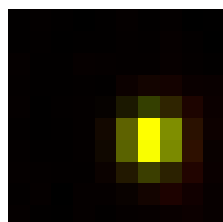| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	437 nm	452 nm	223 nm
z	1.54 um	1.55 um	885 nm
Asymmetry	0.952		
Theta	83.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.972$

Parameters:
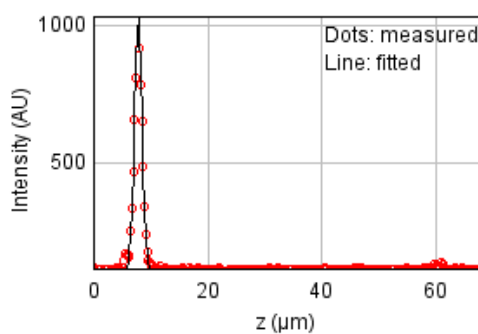A = 1114.515   (brightness)
B = 129.314   (background)
a = 0.774 px
b = 0.008 px
c = 0.703 px

xc = 6.113 px
yc = 5.494 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 41424.3188
Standard deviation: 11.61605
R^2: 0.99044
Parameters:
a = 115.44779
b = 1034.20012
c = 7.90662
d = 0.65371

Bead 279

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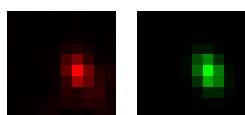Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 41.8 um (x), -912 nm (y), 7.78 um (z)
Corresponding bead : Not found

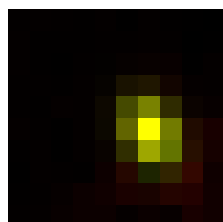| FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	539 nm	557 nm	223 nm
z	1.64 um	1.65 um	885 nm
Asymmetry	0.708		
Theta	-63.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.942$

Parameters:
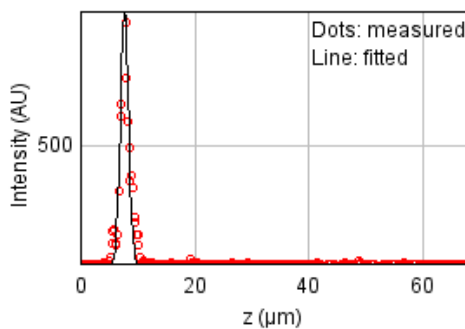A = 881.833 (brightness)
B = 132.414 (background)
a = 0.830 px
b = -0.182 px
c = 0.552 px

xc = 6.092 px
yc = 5.146 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 233196.222
Standard deviation: 27.56078
R^2: 0.93977
Parameters:
a = 115.90842
b = 936.52683
c = 7.77868
d = 0.69596

Bead 280 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
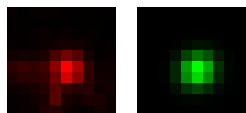
Coordinates : -56.5 um (x), -47.2 um (y), 7.92 um (z)
Corresponding bead : Not found
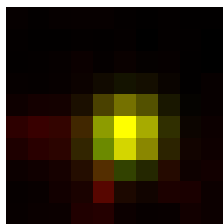Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	513 nm	530 nm	223 nm
max	557 nm	576 nm	223 nm
z	2.08 um	2.09 um	885 nm
Asymmetry	0.92		
Theta	25.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.898$

Parameters:
 A = 619.995   (brightness)
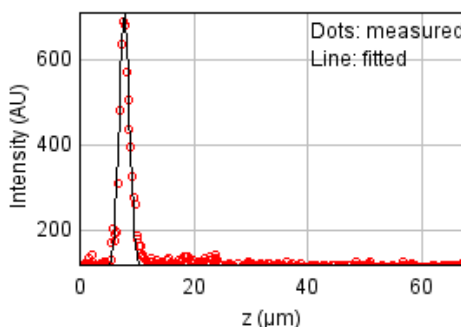 B = 136.035   (background)
 a = 0.447 px
 b = 0.030 px
 c = 0.496 px

xc = 5.031 px
yc = 5.318 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 114159.868
Standard deviation: 19.28357
R^2: 0.95445
Parameters:
 a = 116.17849
 b = 710.10164
 c = 7.92211
 d = 0.88252

Bead 281

Date : Mon Oct 17 13:28:11 PDT 2022
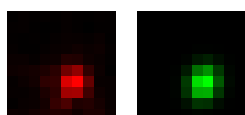Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -89.0 um (x), -48.0 um (y), 7.41 um (z)
Corresponding bead : Not found

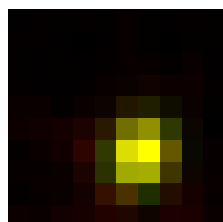| FWHM	Non corrected	Corrected	Theoretical
min	462 nm	478 nm	223 nm
max	543 nm	561 nm	223 nm
z	1.5 um	1.5 um	885 nm
Asymmetry	0.851		
Theta	68.9°		

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 = 0.957

Parameters:
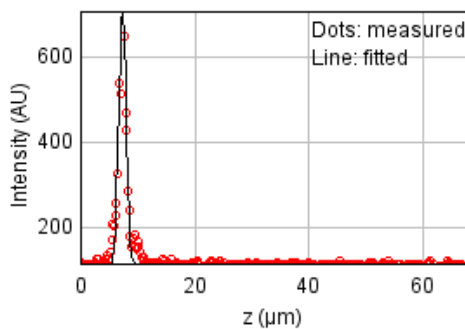A = 690.660   (brightness)
B = 128.811   (background)
a = 0.606 px
b = 0.058 px
c = 0.477 px

xc = 5.603 px
yc = 6.147 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 71939.5384
Standard deviation: 15.30787
R^2: 0.96041
Parameters:
 a = 113.73065
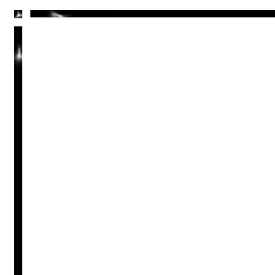 b = 707.72037
 c = 7.41005
 d = 0.63506

Bead 282

Date : Mon Oct 17 13:28:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 28.5 um (x), -77.8 um (y), 8.0 um (z)
Corresponding bead : Not found

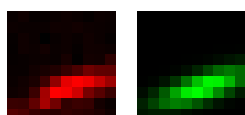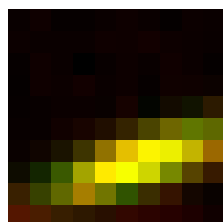| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	429 nm	223 nm
max	1.46 um	1.51 um	223 nm
z	1.84 um	1.85 um	885 nm
Asymmetry	0.283		
Theta	18.3°		

XY profile & fitting parameters :

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

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

Parameters:
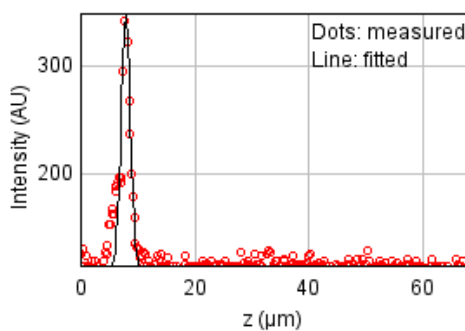 A = 280.399   (brightness)
 B = 116.296   (background)
 a = 0.133 px
 b = 0.214 px
 c = 0.708 px

xc = 5.572 px
yc = 6.533 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38405.9562
Standard deviation: 11.18485
R^2: 0.89779
Parameters:
 a = 114.07434
 b = 350.26476
 c = 7.99643
 d = 0.78262

Bead 283 (Rejected)

Date : Mon Oct 17 13:28:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 120 um (x), -82.5 um (y), 6.81 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

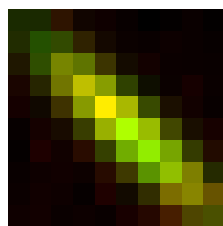| FWHM	Non corrected	Corrected	Theoretical
min	452 nm	467 nm	223 nm
max	1.94 um	2.0 um	223 nm
z	1.52 um	1.52 um	885 nm
Asymmetry	0.233		
Theta	-44.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
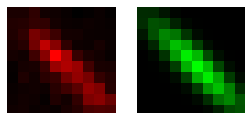
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.913$

Parameters:
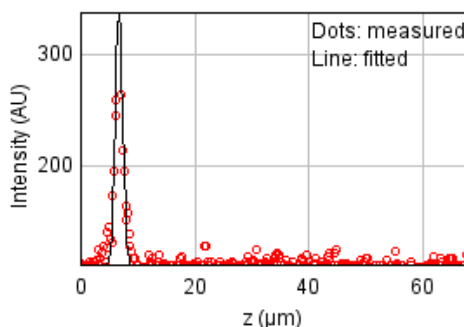 A = 187.006   (brightness)
 B = 114.875   (background)
 a = 0.338 px
 b = -0.310 px
 c = 0.354 px

xc = 5.039 px
yc = 4.987 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18587.1746
Standard deviation: 7.78104
R^2: 0.93240
Parameters:
 a = 111.54735
 b = 337.64356
 c = 6.80684
 d = 0.64416

Bead 284

Date : Mon Oct 17 13:28:11 PDT 2022
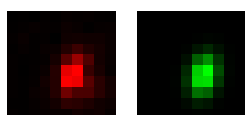Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 35.6 um (x), 60.8 um (y), 7.49 um (z)
Corresponding bead : Not found

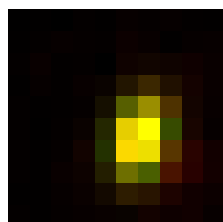| FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	630 nm	651 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.674		
Theta	76.4°		

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
$R^2 = 0.956$

Parameters:
A = 683.743   (brightness)
B = 124.004   (background)
a = 0.722 px
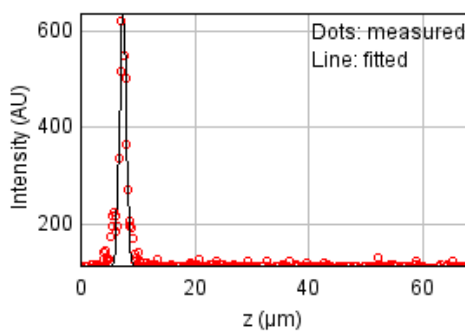b = 0.093 px
c = 0.361 px

xc = 5.597 px
yc = 5.417 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 77170.2301
Standard deviation: 15.85462
R^2: 0.94024
Parameters:
a = 114.98630
b = 634.85269
c = 7.48807
d = 0.57489

Bead 285

Date : Mon Oct 17 13:28:11 PDT 2022
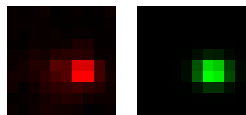Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -83.5 um (x), 60.6 um (y), 8.29 um (z)
Corresponding bead : Not found

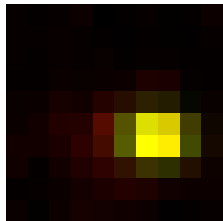| FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	497 nm	513 nm	223 nm
z	2.35 um	2.36 um	885 nm
Asymmetry	0.778		
Theta	-2.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.926$

Parameters:
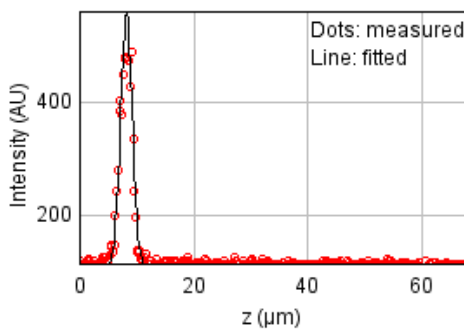A = 595.690   (brightness)
B = 129.191   (background)
a = 0.545 px
b = -0.015 px
c = 0.899 px

xc = 6.420 px
yc = 5.583 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 67148.1119
Standard deviation: 14.78930
R^2: 0.95785
Parameters:
a = 112.75833
b = 560.61709
c = 8.29157
d = 0.99621

Bead 286

Date : Mon Oct 17 13:28:11 PDT 2022
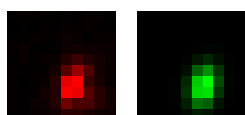Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 35.6 um (x), 60.8 um (y), 7.49 um (z)
Corresponding bead : Not found

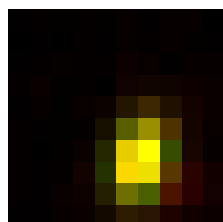| FWHM	Non corrected	Corrected	Theoretical
min	427 nm	441 nm	223 nm
max	633 nm	654 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.674		
Theta	76.3°		

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 = 0.957

Parameters:
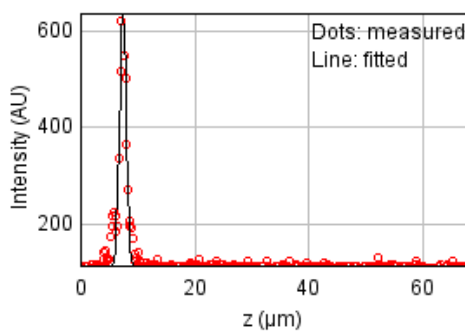A = 683.313 (brightness)
B = 122.523 (background)
a = 0.714 px
b = 0.092 px
c = 0.358 px

xc = 5.598 px
yc = 6.417 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 77170.2301
Standard deviation: 15.85462
R^2: 0.94024
Parameters:
a = 114.98630
b = 634.85269
c = 7.48807
d = 0.57489

Bead 287 (Rejected)

Date : Mon Oct 17 13:28:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 103 um (x), 59.6 um (y), 7.38 um (z)
Corresponding bead : Not found
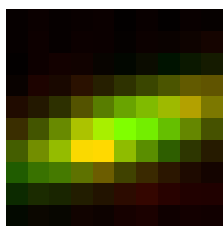Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	575 nm	595 nm	223 nm
max	1.87 um	1.93 um	223 nm
z	3.3 um	3.31 um	885 nm
Asymmetry	0.307		
Theta	17.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
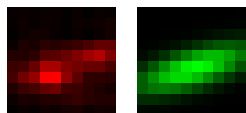
Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
   R^2 = 0.828

Parameters:
 A = 310.209   (brightness)
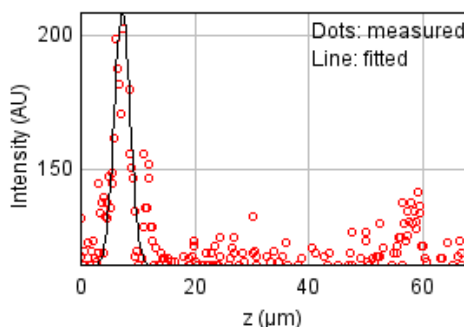 B = 126.210   (background)
 a = 0.070 px
 b = 0.103 px
 c = 0.374 px

xc = 4.727 px
yc = 5.168 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 34925.5019
Standard deviation: 10.66601
R^2: 0.72611
Parameters:
 a = 114.38882
 b = 208.50643
 c = 7.38242
 d = 1.39995

Bead 288

Date : Mon Oct 17 13:28:12 PDT 2022
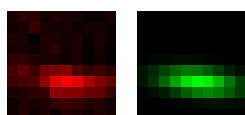Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 128 um (x), 51.9 um (y), 6.55 um (z)
Corresponding bead : Not found

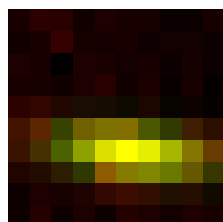| FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	1.23 um	1.27 um	223 nm
z	2.63 um	2.64 um	885 nm
Asymmetry	0.333		
Theta	-6.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.921$

Parameters:
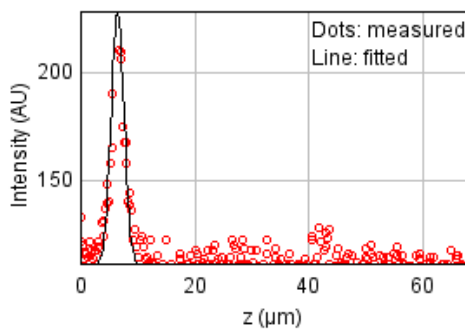 A = 128.319   (brightness)
 B = 112.624   (background)
 a = 0.097 px
 b = -0.078 px
 c = 0.787 px

 xc = 5.188 px
 yc = 6.052 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14945.8657
Standard deviation: 6.97736
R^2: 0.88617
Parameters:
 a = 111.46817
 b = 228.61666
 c = 6.55092
 d = 1.11765

Bead 289

Date : Mon Oct 17 13:28:12 PDT 2022
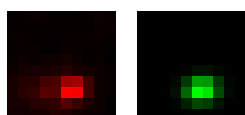Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -89.7 um (x), 46.3 um (y), 8.61 um (z)
Corresponding bead : Not found

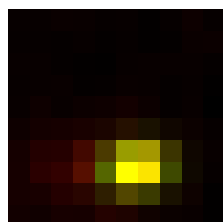| FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	513 nm	530 nm	223 nm
z	1.72 um	1.72 um	885 nm
Asymmetry	0.755		
Theta	6.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.911$

Parameters:
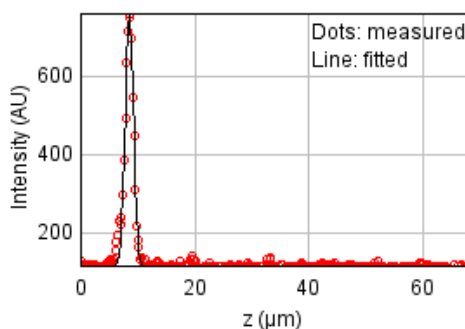 A = 723.133   (brightness)
 B = 133.879   (background)
 a = 0.515 px
 b = 0.041 px
 c = 0.891 px

xc = 5.410 px
yc = 6.756 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43953.8892
Standard deviation: 11.96546
R^2: 0.98159
Parameters:
 a = 114.92876
 b = 758.91150
 c = 8.61360
 d = 0.72927

Bead 290

Date : Mon Oct 17 13:28:12 PDT 2022
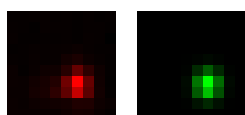Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -55.2 um (x), 35.4 um (y), 8.49 um (z)
Corresponding bead : Not found

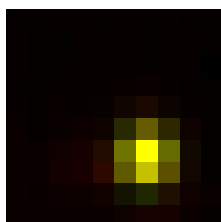| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	453 nm	468 nm	223 nm
z	1.66 um	1.67 um	885 nm
Asymmetry	0.889		
Theta	88.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.974$

Parameters:
 A = 1009.861   (brightness)
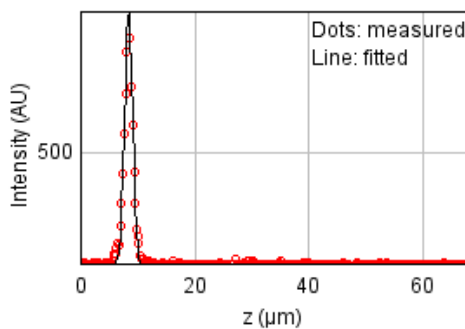 B = 129.290   (background)
 a = 0.830 px
 b = 0.006 px
 c = 0.655 px

xc = 5.973 px
yc = 6.285 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43548.4770
Standard deviation: 11.91015
R^2: 0.98992
Parameters:
 a = 114.55010
 b = 998.02800
 c = 8.48921
 d = 0.70629

Bead 291 (Rejected)

Date : Mon Oct 17 13:28:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
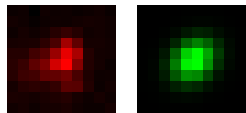Frame size : 10 pixels

Coordinates : -63.9 um (x), 31.6 um (y), 7.23 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

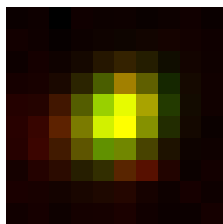| FWHM	Non corrected	Corrected	Theoretical
min	589 nm	609 nm	223 nm
max	730 nm	755 nm	223 nm
z	2.04 um	2.05 um	885 nm
Asymmetry	0.807		
Theta	41.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.899$

Parameters:
 A = 299.963   (brightness)
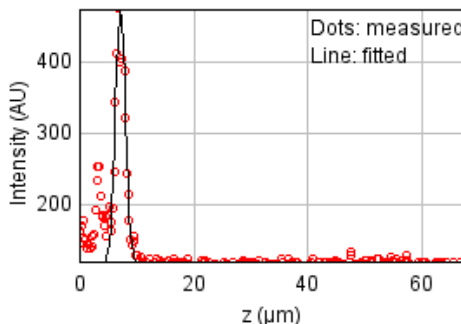 B = 125.329   (background)
 a = 0.311 px
 b = 0.067 px
 c = 0.328 px

xc = 4.680 px
yc = 4.589 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 146261.439
Standard deviation: 21.82708
R^2: 0.85333
Parameters:
 a = 117.93805
 b = 474.97368
 c = 7.22721
 d = 0.86802

Bead 292 (Rejected)

Date : Mon Oct 17 13:28:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
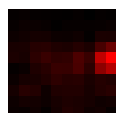Frame size : 10 pixels

Coordinates : -85.4 um (x), 16.9 um (y), 7.84 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

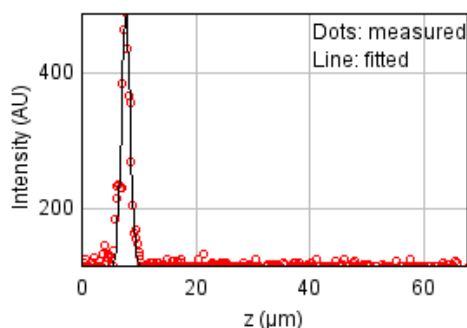| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.76 um	1.77 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 49760.0328
Standard deviation: 12.73125
R^2: 0.94325
Parameters:
 a = 113.42303
 b = 491.56542
 c = 7.83904
 d = 0.74707

Bead 293 (Rejected)

Date : Mon Oct 17 13:28:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -59.5 um (x), 5.66 um (y), 9.1 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

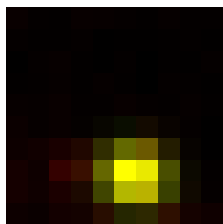| FWHM	Non corrected	Corrected	Theoretical
min	464 nm	480 nm	223 nm
max	523 nm	541 nm	223 nm
z	4.07 um	4.09 um	885 nm
Asymmetry	0.887		
Theta	-14.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
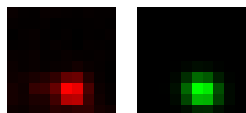
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.960$

Parameters:
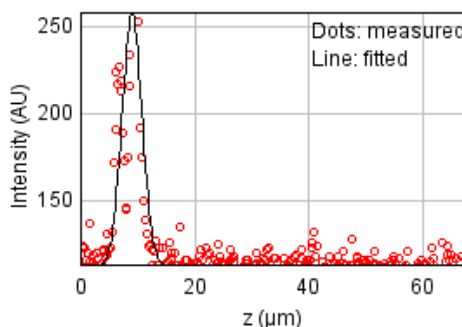 A = 642.057   (brightness)
 B = 121.681   (background)
 a = 0.498 px
 b = -0.033 px
 c = 0.614 px

xc = 5.423 px
yc = 7.250 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 81789.4663
Standard deviation: 16.32223
R^2: 0.76757
Parameters:
 a = 112.62691
 b = 258.65271
 c = 9.10230
 d = 1.72854

Bead 294 (Rejected)

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

Coordinates : -59.6 um (x), 5.88 um (y), 7.83 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

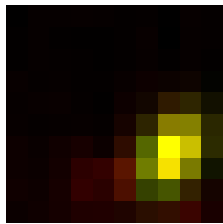| FWHM	Non corrected	Corrected	Theoretical
min	439 nm	454 nm	223 nm
max	638 nm	660 nm	223 nm
z	3.17 um	3.19 um	885 nm
Asymmetry	0.687		
Theta	59.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
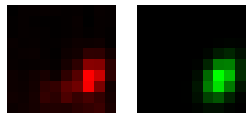
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.911$

Parameters:
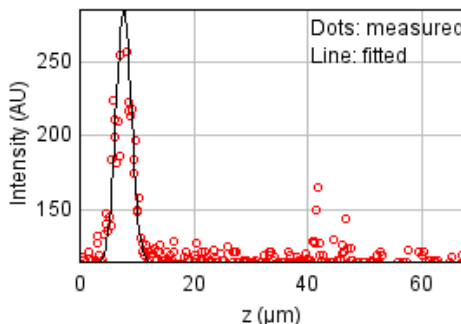 A = 682.699 (brightness)
 B = 134.992 (background)
 a = 0.602 px
 b = 0.161 px
 c = 0.424 px

xc = 7.182 px
yc = 6.281 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 45097.2748
Standard deviation: 12.12009
R^2: 0.86978
Parameters:
 a = 113.77849
 b = 286.51119
 c = 7.83294
 d = 1.34813

Bead 295

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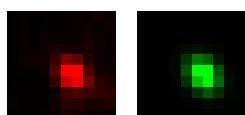Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 79.3 um (x), 2.56 um (y), 7.63 um (z)
Corresponding bead : Not found

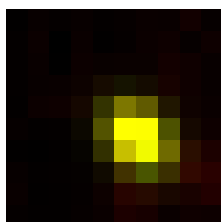| FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	573 nm	592 nm	223 nm
z	1.74 um	1.75 um	885 nm
Asymmetry	0.775		
Theta	-49.0°		

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 = 561.210   (brightness)
B = 122.684   (background)
a = 0.563 px
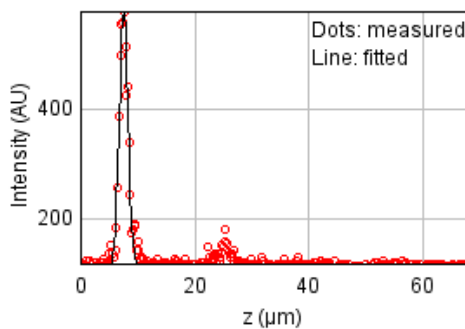b = -0.134 px
c = 0.526 px

xc = 5.587 px
yc = 5.377 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55398.2993
Standard deviation: 13.43319
R^2: 0.95731
Parameters:
a = 115.74163
b = 581.29851
c = 7.63071
d = 0.74005

Bead 296 (Rejected)

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

Coordinates : 78.0 um (x), 2.79 um (y), 25.2 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

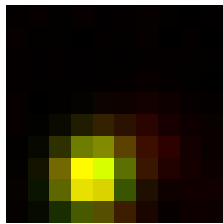| FWHM	Non corrected	Corrected	Theoretical
min	541 nm	560 nm	223 nm
max	603 nm	623 nm	223 nm
z	1.5 um	1.5 um	885 nm
Asymmetry	0.898		
Theta	51.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
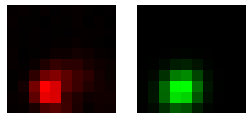
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.950$

Parameters:
 A = 934.684   (brightness)
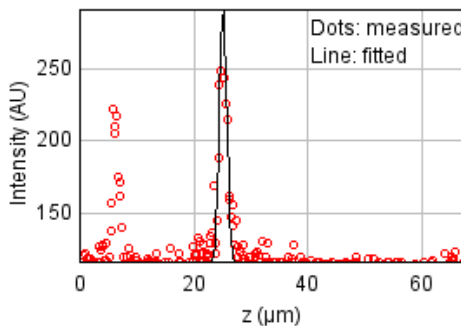 B = 136.243   (background)
 a = 0.424 px
 b = 0.043 px
 c = 0.403 px

xc = 3.496 px
yc = 7.314 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 76958.0550
Standard deviation: 15.83280
R^2: 0.66621
Parameters:
 a = 115.83889
 b = 291.98602
 c = 25.22988
 d = 0.63559

Bead 297 (Rejected)

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

Coordinates : -71.5 um (x), -14.7 um (y), 16.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

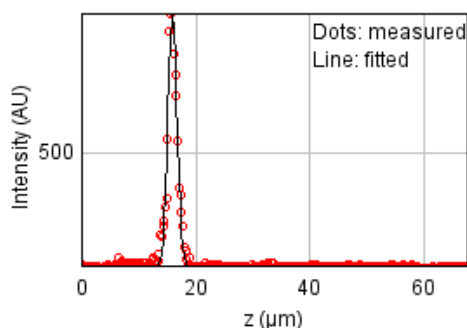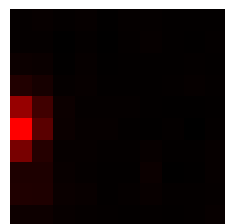| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	1.9 um	1.91 um	885 nm
Asymmetry	0.0		
Theta	0.0°		

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: 119201.361
Standard deviation: 19.70477
R^2: 0.97472
Parameters:
 a = 116.31975
 b = 974.54633
 c = 15.99237
 d = 0.80887

Bead 298

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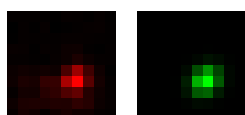Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -64.1 um (x), -17.1 um (y), 7.55 um (z)
Corresponding bead : Not found

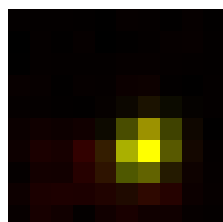| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	472 nm	488 nm	223 nm
z	3.05 um	3.06 um	885 nm
Asymmetry	0.833		
Theta	40.3°		

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 = 0.928

Parameters:
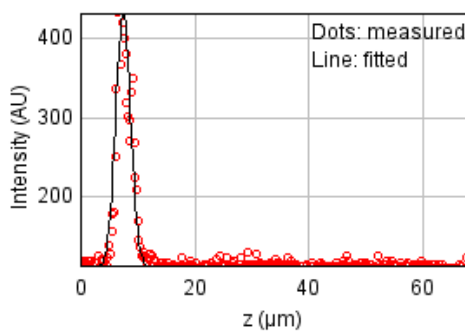 A = 505.751 (brightness)
 B = 126.675 (background)
 a = 0.714 px
 b = 0.131 px
 c = 0.757 px

xc = 5.777 px
yc = 5.908 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 127262.918
Standard deviation: 20.36019
R^2: 0.88630
Parameters:
 a = 112.61574
 b = 432.01954
 c = 7.54601
 d = 1.29461

Bead 299 (Rejected)

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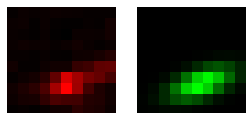Frame size : 10 pixels

Coordinates : 106 um (x), 85.9 um (y), 7.71 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

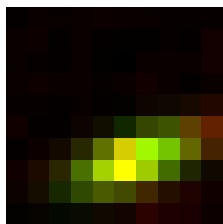| FWHM	Non corrected	Corrected	Theoretical
min	410 nm	424 nm	223 nm
max	979 nm	1.01 um	223 nm
z	2.05 um	2.05 um	885 nm
Asymmetry	0.419		
Theta	19.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.892$

Parameters:
A = 336.359   (brightness)
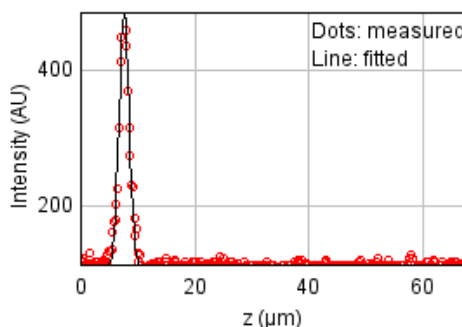B = 123.730   (background)
a = 0.210 px
b = 0.204 px
c = 0.729 px

xc = 5.431 px
yc = 6.524 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22148.0570
Standard deviation: 8.49373
R^2: 0.97674
Parameters:
a = 112.48257
b = 485.48961
c = 7.71282
d = 0.86904

Bead 300

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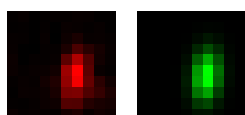Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 31.4 um (x), 74.9 um (y), 7.86 um (z)
Corresponding bead : Not found

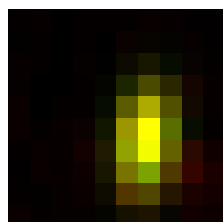| FWHM	Non corrected	Corrected	Theoretical
min	440 nm	454 nm	223 nm
max	810 nm	837 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.543		
Theta	84.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.965$

Parameters:
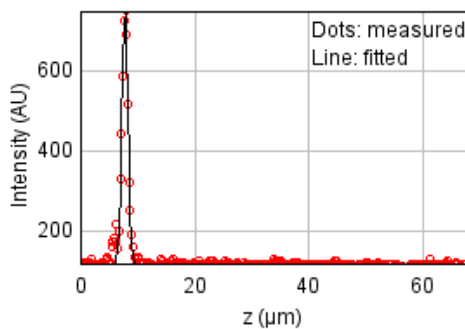A = 643.306   (brightness)
B = 120.090   (background)
a = 0.690 px
b = 0.046 px
c = 0.209 px

xc = 5.850 px
yc = 5.496 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 40495.1029
Standard deviation: 11.48503
R^2: 0.97664
Parameters:
a = 115.21808
b = 753.04076
c = 7.85733
d = 0.53127