Bead 2201

Date : Mon Oct 17 13:53:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
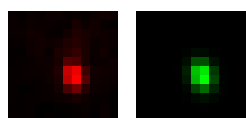
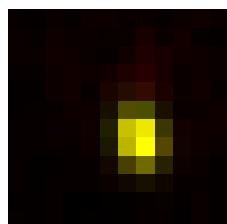Coordinates : 64.4 um (x), 24.2 um (y), 42.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.749		
Theta	-77.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.970$

Parameters:
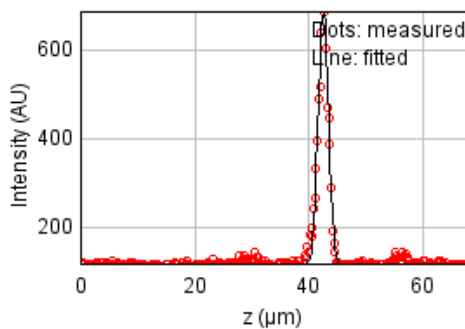 A = 668.761   (brightness)
 B = 125.929   (background)
 a = 0.823 px
 b = -0.080 px
 c = 0.490 px

xc = 6.666 px
yc = 6.542 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 37652.4091
Standard deviation: 11.07458
R^2: 0.98348
Parameters:
 a = 115.99622
 b = 687.76411
 c = 42.60497
 d = 0.89279

Bead 2202

Date : Mon Oct 17 13:53:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
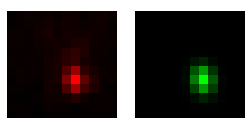Frame size : 12 pixels

Coordinates : 57.8 um (x), 23.9 um (y), 43.3 um (z)
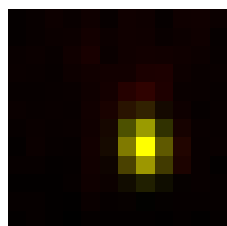Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	513 nm	535 nm	270 nm
z	1.86 um	1.87 um	1.3 um
Asymmetry	0.751		
Theta	-82.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.949$

Parameters:
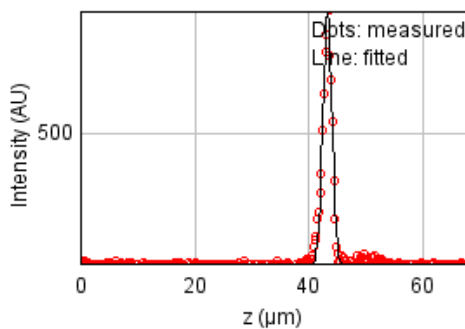A = 754.017   (brightness)
B = 131.526   (background)
a = 0.897 px
b = -0.050 px
c = 0.516 px

xc = 6.910 px
yc = 6.978 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 51178.0331
Standard deviation: 12.91138
R^2: 0.98512
Parameters:
a = 115.41866
b = 860.07820
c = 43.32211
d = 0.79110

Bead 2203

Date : Mon Oct 17 13:53:03 PDT 2022
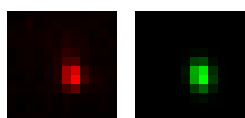Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 45.9 um (x), 23.5 um (y), 42.9 um (z)
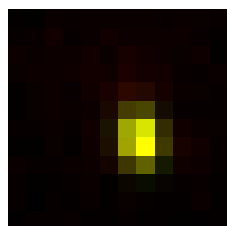Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	369 nm	384 nm	270 nm
max	505 nm	526 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.73		
Theta	-81.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.971$

Parameters:
 A = 675.415   (brightness)
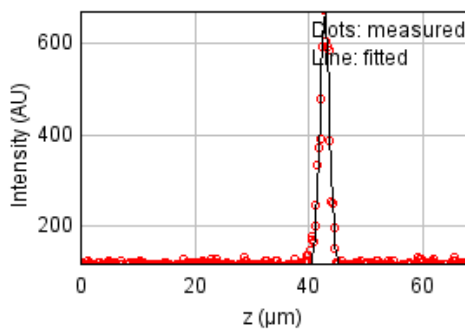 B = 122.499   (background)
 a = 0.975 px
 b = -0.071 px
 c = 0.537 px

xc = 6.699 px
yc = 6.564 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 45822.4832
Standard deviation: 12.21716
R^2: 0.97725
Parameters:
 a = 114.11737
 b = 671.49510
 c = 42.85478
 d = 0.82163

Bead 2204

Date : Mon Oct 17 13:53:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
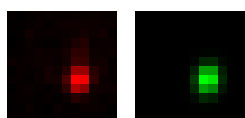Frame size : 12 pixels

Coordinates : -84.2 um (x), -12.6 um (y), 42.7 um (z)
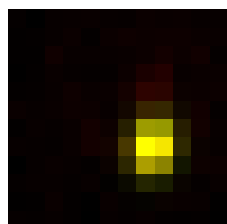Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	530 nm	552 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.765		
Theta	82.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.971$

Parameters:
A = 589.178   (brightness)
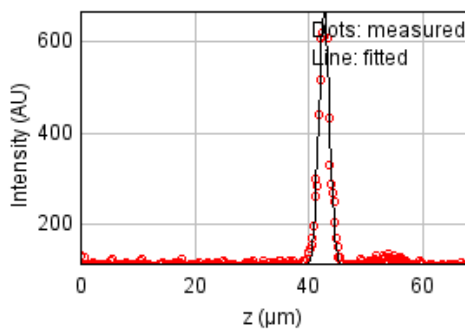B = 120.777   (background)
a = 0.811 px
b = 0.043 px
c = 0.484 px

xc = 7.436 px
yc = 6.967 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 47999.3823
Standard deviation: 12.50399
R^2: 0.97807
Parameters:
 a = 114.38581
 b = 667.37105
 c = 42.74582
 d = 0.91248

Bead 2205

Date : Mon Oct 17 13:53:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
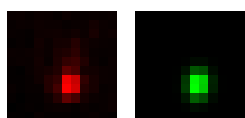Frame size : 12 pixels

Coordinates : 63.2 um (x), -43.1 um (y), 43.2 um (z)
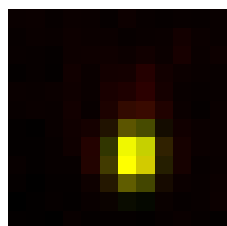Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	415 nm	270 nm
max	509 nm	531 nm	270 nm
z	1.8 um	1.8 um	1.3 um
Asymmetry	0.781		
Theta	85.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.954$

Parameters:
A = 685.904   (brightness)
B = 125.251   (background)
a = 0.845 px
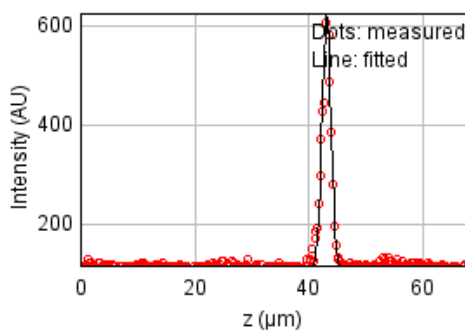b = 0.028 px
c = 0.519 px

xc = 6.380 px
yc = 7.510 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 31715.1002
Standard deviation: 10.16398
R^2: 0.97971
Parameters:
 a = 114.92602
 b = 624.44934
 c = 43.16049
 d = 0.76270

Bead 2206

Date : Mon Oct 17 13:53:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
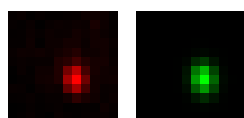Frame size : 12 pixels

Coordinates : -68.2 um (x), -83.2 um (y), 41.9 um (z)
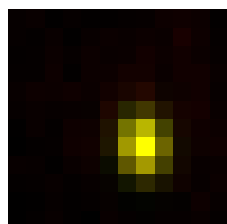Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	565 nm	588 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.76		
Theta	-83.8°		

XY profile & fitting parameters :

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

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

Parameters:
A = 490.555   (brightness)
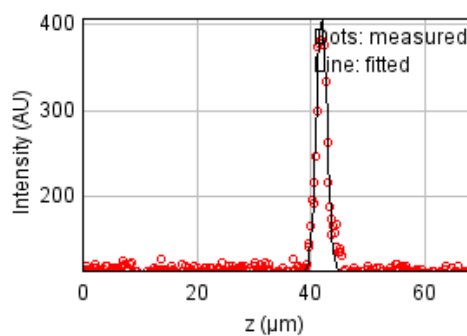B = 121.225   (background)
a = 0.725 px
b = -0.033 px
c = 0.424 px

xc = 6.847 px
yc = 6.890 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21837.2971
Standard deviation: 8.43394
R^2: 0.96554
Parameters:
a = 113.59322
b = 406.90173
c = 41.94922
d = 0.92771

Bead 2207 (Rejected)

Date : Mon Oct 17 13:53:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

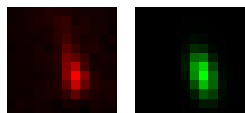Coordinates : 159 um (x), 95.4 um (y), 43.2 um (z)
Corresponding bead : Not found
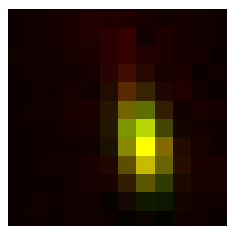Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	433 nm	270 nm
max	795 nm	828 nm	270 nm
z	2.01 um	2.01 um	1.3 um
Asymmetry	0.523		
Theta	-76.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.922$

Parameters:
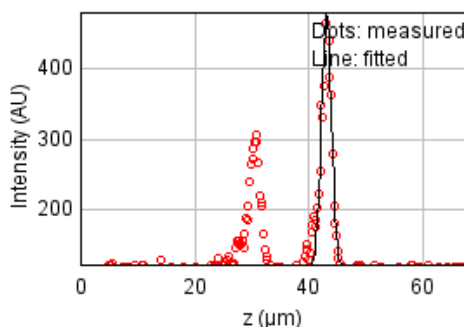 A = 384.919   (brightness)
 B = 121.465   (background)
 a = 0.746 px
 b = -0.130 px
 c = 0.244 px

xc = 6.877 px
yc = 6.799 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 318572.506
Standard deviation: 32.21328
R^2: 0.72814
Parameters:
 a = 120.28317
 b = 481.04203
 c = 43.15719
 d = 0.85169

Bead 2208

Date : Mon Oct 17 13:53:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
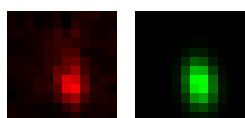Frame size : 12 pixels

Coordinates : 92.1 um (x), 34.6 um (y), 41.5 um (z)
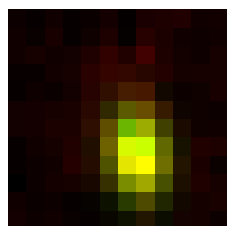Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	535 nm	557 nm	270 nm
max	828 nm	862 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.646		
Theta	-81.7°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.915$

Parameters:
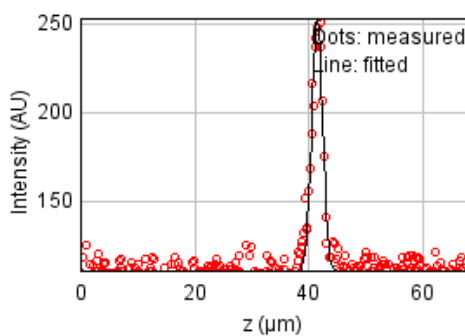 A = 208.074   (brightness)
 B = 122.491   (background)
 a = 0.463 px
 b = -0.039 px
 c = 0.201 px

xc = 6.553 px
yc = 7.394 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15771.0017
Standard deviation: 7.16738
R^2: 0.90232
Parameters:
 a = 111.27487
 b = 253.43172
 c = 41.51804
 d = 0.94112

Bead 2209

Date : Mon Oct 17 13:53:04 PDT 2022
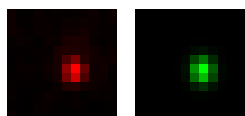Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -68.9 um (x), 29.3 um (y), 43.2 um (z)
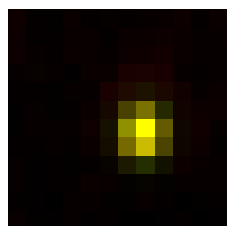Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	491 nm	511 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.834		
Theta	-88.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 844.159   (brightness)
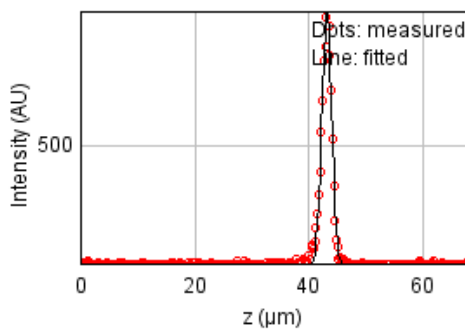 B = 127.494   (background)
 a = 0.800 px
 b = -0.005 px
 c = 0.557 px

xc = 6.859 px
yc = 6.222 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39450.3100
Standard deviation: 11.33590
R^2: 0.99126
Parameters:
 a = 115.09810
 b = 942.32386
 c = 43.21261
 d = 0.84972

Bead 2210

Date : Mon Oct 17 13:53:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
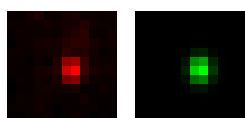Frame size : 12 pixels

Coordinates : -161 um (x), 25.9 um (y), 42.7 um (z)
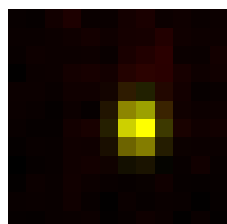Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	414 nm	270 nm
max	479 nm	499 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.829		
Theta	-87.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.948$

Parameters:
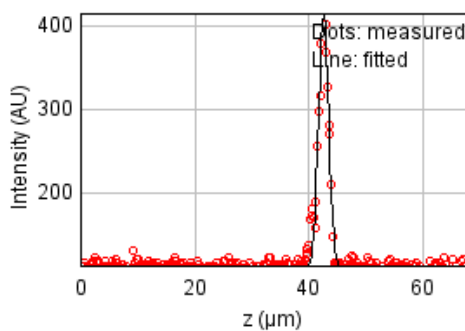 A = 349.894   (brightness)
 B = 113.643   (background)
 a = 0.850 px
 b = -0.011 px
 c = 0.585 px

xc = 6.619 px
yc = 5.885 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23161.1527
Standard deviation: 8.68582
R^2: 0.96380
Parameters:
 a = 111.37201
 b = 415.74145
 c = 42.65201
 d = 0.86548

Bead 2211

Date : Mon Oct 17 13:53:04 PDT 2022
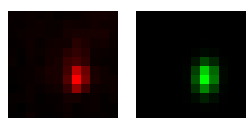Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 68.0 um (x), 9.63 um (y), 42.8 um (z)
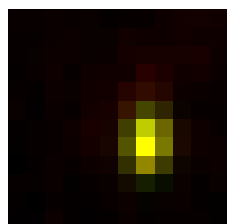Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	378 nm	394 nm	270 nm
max	561 nm	584 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.674		
Theta	86.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 485.612 (brightness)
 B = 121.504 (background)
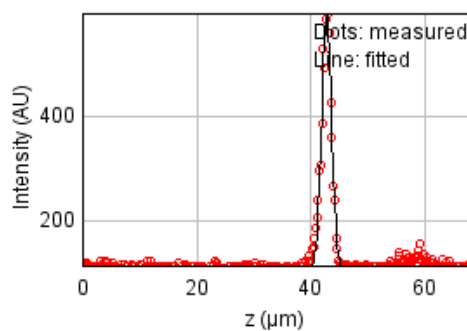 a = 0.937 px
 b = 0.031 px
 c = 0.428 px

xc = 7.105 px
yc = 6.750 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 38108.5396
Standard deviation: 11.14146
R^2: 0.97526
Parameters:
 a = 114.99425
 b = 596.40503
 c = 42.82803
 d = 0.84170

Bead 2212 (Rejected)

Date : Mon Oct 17 13:53:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 1.4 um (x), 8.18 um (y), 41.8 um (z)
Corresponding bead : Not found
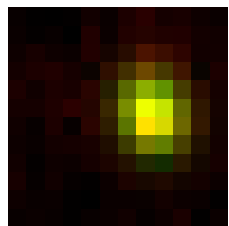Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	611 nm	636 nm	270 nm
max	751 nm	782 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.813		
Theta	-72.9°		

XY profile & fitting parameters :

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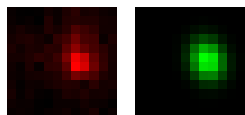
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.908$

Parameters:
 A = 202.374   (brightness)
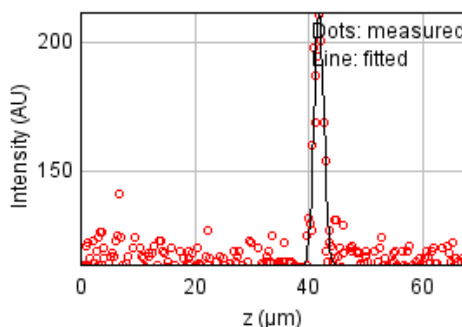 B = 120.825   (background)
 a = 0.349 px
 b = -0.034 px
 c = 0.248 px

xc = 7.371 px
yc = 5.306 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14682.9416
Standard deviation: 6.91572
R^2: 0.80958
Parameters:
 a = 113.09458
 b = 211.34111
 c = 41.82714
 d = 0.83962

Bead 2213

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
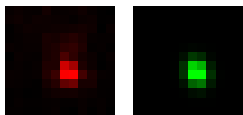Frame size : 12 pixels

Coordinates : -336 nm (x), -19.4 um (y), 43.0 um (z)
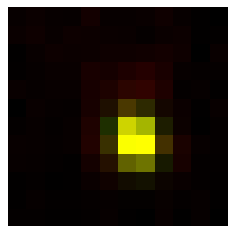Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	495 nm	516 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.799		
Theta	-74.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.950$

Parameters:
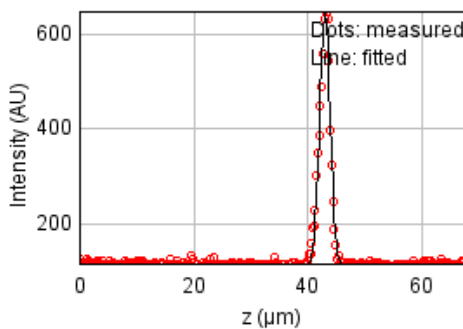 A = 630.543   (brightness)
 B = 125.074   (background)
 a = 0.835 px
 b = -0.082 px
 c = 0.571 px

xc = 6.473 px
yc = 6.730 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35218.2166
Standard deviation: 10.71062
R^2: 0.98256
Parameters:
 a = 113.68639
 b = 647.94582
 c = 43.04986
 d = 0.90593

Bead 2214

Date : Mon Oct 17 13:53:05 PDT 2022
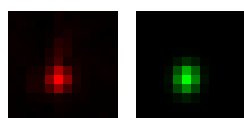Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -33.0 um (x), -34.2 um (y), 39.0 um (z)
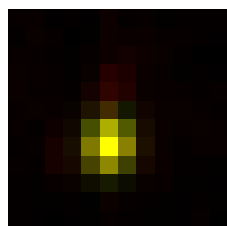Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	430 nm	447 nm	270 nm
max	515 nm	536 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.834		
Theta	84.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 651.245   (brightness)
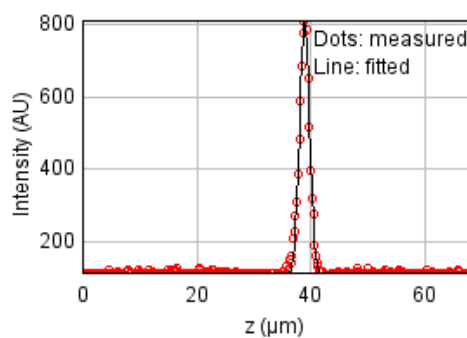 B = 125.031   (background)
 a = 0.725 px
 b = 0.021 px
 c = 0.508 px

xc = 5.021 px
yc = 6.874 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30026.0523
Standard deviation: 9.88963
R^2: 0.99066
Parameters:
 a = 114.04479
 b = 809.04207
 c = 38.97370
 d = 0.85687

Bead 2215

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
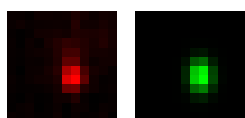Frame size : 12 pixels

Coordinates : -21.2 um (x), -45.1 um (y), 43.0 um (z)
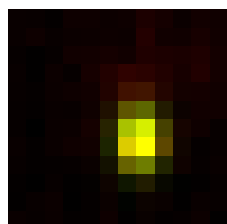Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	587 nm	611 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.719		
Theta	-88.8°		

XY profile & fitting parameters :

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

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

Parameters:
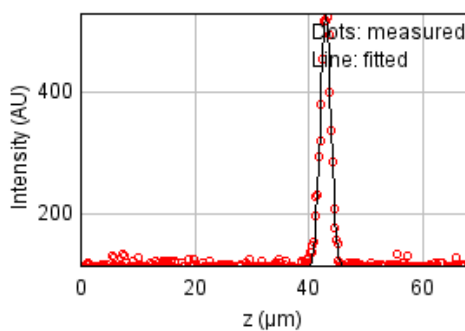 A = 438.330   (brightness)
 B = 124.304   (background)
 a = 0.754 px
 b = -0.008 px
 c = 0.390 px

xc = 6.643 px
yc = 6.579 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21552.6069
Standard deviation: 8.37878
R^2: 0.98274
Parameters:
 a = 112.77911
 b = 531.31529
 c = 43.00728
 d = 0.91325

Bead 2216 (Rejected)

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

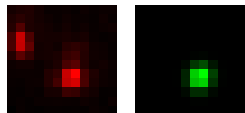Coordinates : -31.8 um (x), -73.9 um (y), 43.5 um (z)
Corresponding bead : Not found
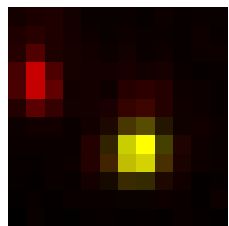Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	445 nm	463 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.909		
Theta	64.7°		

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 = 0.608

Parameters:
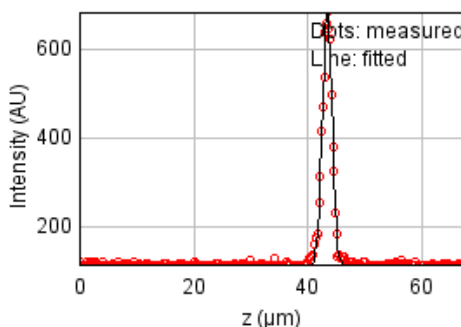 A = 657.714   (brightness)
 B = 149.607   (background)
 a = 0.795 px
 b = 0.055 px
 c = 0.705 px

xc = 6.608 px
yc = 7.391 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20109.7660
Standard deviation: 8.09346
R^2: 0.99068
Parameters:
 a = 113.64225
 b = 687.60024
 c = 43.46211
 d = 0.84290

Bead 2217

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
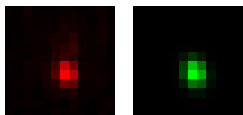Frame size : 12 pixels

Coordinates : -4.13 um (x), -79.0 um (y), 42.8 um (z)
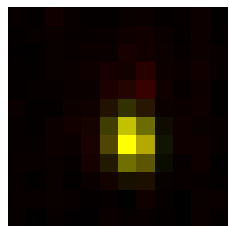Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	502 nm	523 nm	270 nm
z	1.98 um	1.98 um	1.3 um
Asymmetry	0.778		
Theta	-76.3°		

XY profile & fitting parameters :

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

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

Parameters:
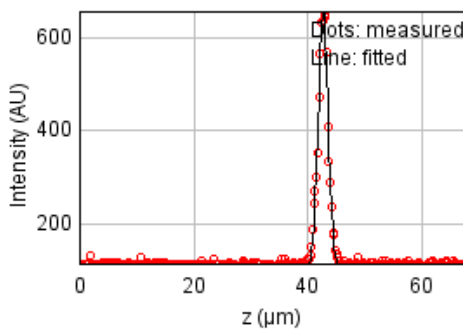 A = 562.653   (brightness)
 B = 120.173   (background)
 a = 0.860 px
 b = -0.080 px
 c = 0.552 px

xc = 6.238 px
yc = 6.786 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21511.3812
Standard deviation: 8.37076
R^2: 0.98889
Parameters:
 a = 112.96425
 b = 657.23017
 c = 42.75221
 d = 0.83935

Bead 2218

Date : Mon Oct 17 13:53:05 PDT 2022
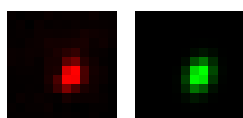Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -51.8 um (x), 73.9 um (y), 43.7 um (z)
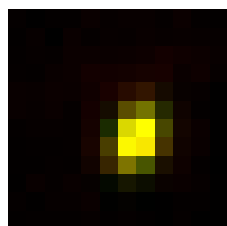Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	418 nm	436 nm	270 nm
max	576 nm	600 nm	270 nm
z	2.21 um	2.22 um	1.3 um
Asymmetry	0.726		
Theta	69.5°		

XY profile & fitting parameters :

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

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

Parameters:
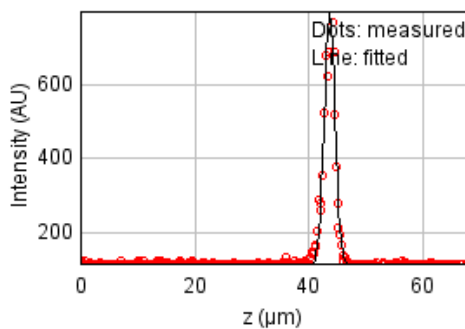 A = 928.147   (brightness)
 B = 123.938   (background)
 a = 0.723 px
 b = 0.119 px
 c = 0.449 px

xc = 6.533 px
yc = 6.512 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 87548.3000
Standard deviation: 16.88708
R^2: 0.97486
Parameters:
 a = 113.58215
 b = 800.48427
 c = 43.70122
 d = 0.93909

Bead 2219

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
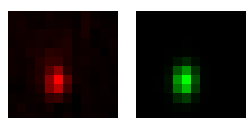Frame size : 12 pixels

Coordinates : 49.9 um (x), 44.1 um (y), 39.7 um (z)
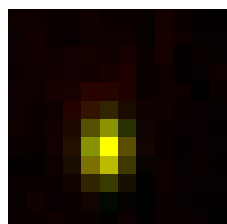Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	409 nm	270 nm
max	559 nm	582 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.703		
Theta	87.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.951$

  Parameters:
  A = 453.924   (brightness)
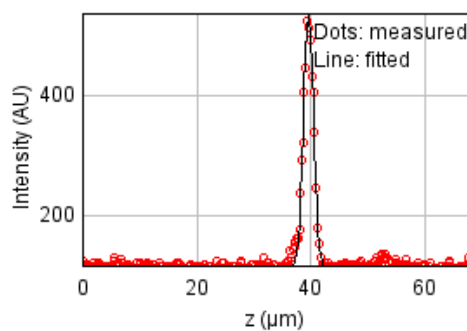 B = 121.241   (background)
  a = 0.869 px
  b = 0.020 px
  c = 0.431 px

xc = 4.817 px
yc = 7.148 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22776.6912
Standard deviation: 8.61343
R^2: 0.98139
Parameters:
 a = 114.10888
 b = 540.48006
 c = 39.66687
 d = 0.85848

Bead 2220

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
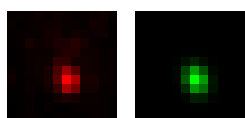Frame size : 12 pixels

Coordinates : 30.0 um (x), 43.7 um (y), 43.3 um (z)
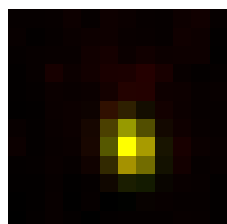Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	422 nm	270 nm
max	519 nm	541 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.781		
Theta	-71.4°		

XY profile & fitting parameters :

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

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

Parameters:
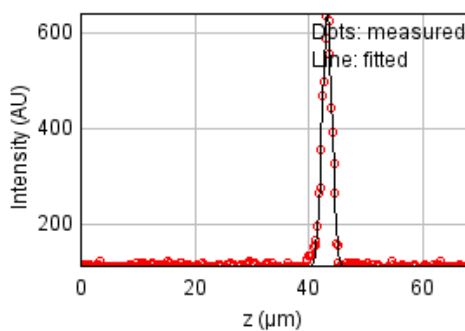 A = 550.371   (brightness)
 B = 122.051   (background)
 a = 0.783 px
 b = -0.096 px
 c = 0.530 px

xc = 6.184 px
yc = 7.008 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19244.7543
Standard deviation: 7.91748
R^2: 0.98953
Parameters:
 a = 114.15575
 b = 641.55186
 c = 43.25673
 d = 0.84973

Bead 2221

Date : Mon Oct 17 13:53:05 PDT 2022
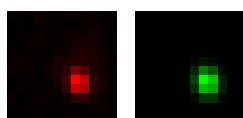Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -95.6 um (x), 24.5 um (y), 42.9 um (z)
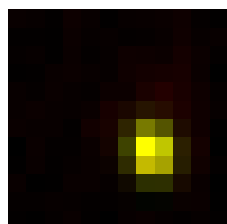Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	423 nm	270 nm
max	510 nm	532 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.796		
Theta	-78.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
A = 583.439   (brightness)
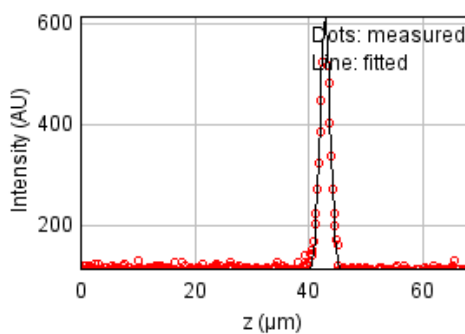B = 120.066   (background)
a = 0.800 px
b = -0.061 px
c = 0.528 px

xc = 7.358 px
yc = 7.238 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25990.7174
Standard deviation: 9.20110
R^2: 0.98483
Parameters:
a = 113.19061
b = 613.62297
c = 42.91468
d = 0.87644

Bead 2222

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
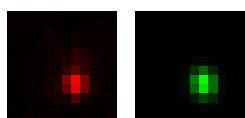Frame size : 12 pixels

Coordinates : -71.9 um (x), 4.65 um (y), 43.6 um (z)
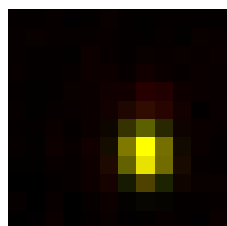Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	498 nm	519 nm	270 nm
z	1.89 um	1.9 um	1.3 um
Asymmetry	0.824		
Theta	-79.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.964$

Parameters:
A = 640.523   (brightness)
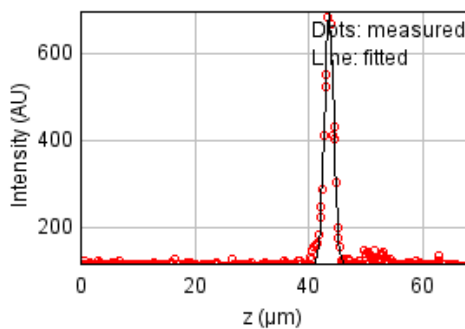B = 123.937   (background)
a = 0.788 px
b = -0.045 px
c = 0.549 px

xc = 6.995 px
yc = 7.386 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 58307.0079
Standard deviation: 13.78133
R^2: 0.97270
Parameters:
 a = 116.37982
 b = 695.45138
 c = 43.59756
 d = 0.80254

Bead 2223

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
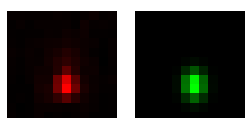Frame size : 12 pixels

Coordinates : -16.9 um (x), -15.6 um (y), 43.4 um (z)
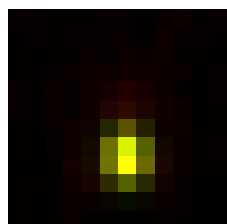Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	400 nm	417 nm	270 nm
max	511 nm	532 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.783		
Theta	-88.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.961$

Parameters:
 A = 835.313   (brightness)
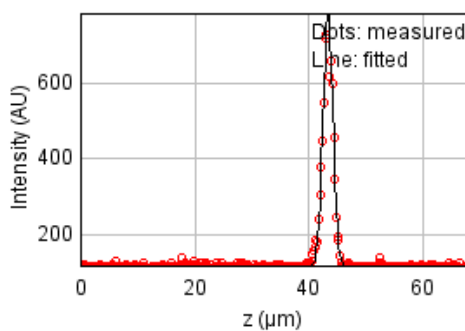 B = 126.070   (background)
 a = 0.838 px
 b = -0.009 px
 c = 0.514 px

xc = 5.966 px
yc = 7.553 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39545.2000
Standard deviation: 11.34953
R^2: 0.98691
Parameters:
 a = 115.34010
 b = 784.57999
 c = 43.41329
 d = 0.86519

Bead 2224

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
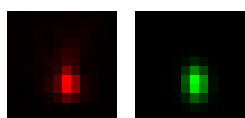Frame size : 12 pixels

Coordinates : 96.6 um (x), -34.1 um (y), 43.6 um (z)
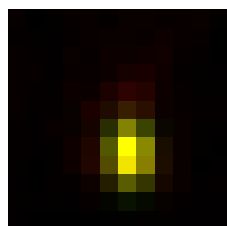Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	413 nm	270 nm
max	583 nm	608 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.679		
Theta	-87.8°		

XY profile & fitting parameters :

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

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

Parameters:
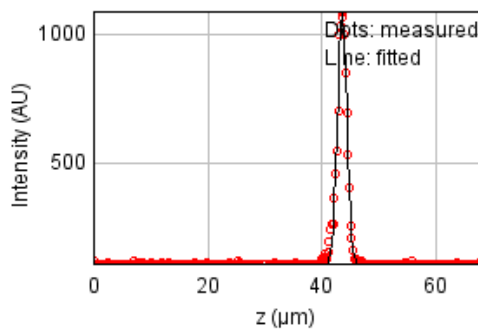 A = 1022.220   (brightness)
 B = 131.195   (background)
 a = 0.854 px
 b = -0.018 px
 c = 0.395 px

xc = 6.141 px
yc = 7.358 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 54746.7396
Standard deviation: 13.35396
R^2: 0.99094
Parameters:
 a = 113.41410
 b = 1086.82074
 c = 43.61388
 d = 0.81937

Bead 2225

Date : Mon Oct 17 13:53:05 PDT 2022
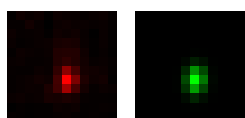Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -144 um (x), -40.6 um (y), 42.9 um (z)
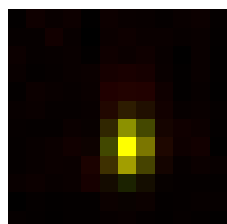Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	363 nm	378 nm	270 nm
max	508 nm	529 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.715		
Theta	85.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.954$

Parameters:
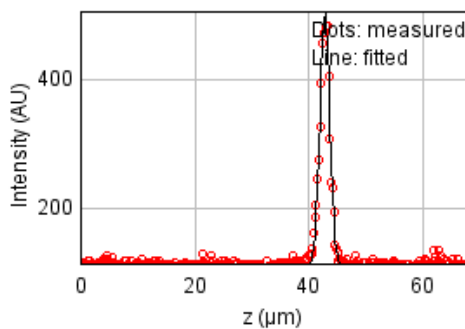 A = 419.528   (brightness)
 B = 118.553   (background)
 a = 1.014 px
 b = 0.041 px
 c = 0.523 px

xc = 6.119 px
yc = 7.030 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18875.2106
Standard deviation: 7.84109
R^2: 0.98198
Parameters:
 a = 111.29624
 b = 508.14540
 c = 42.87699
 d = 0.84854

Bead 2226 (Rejected)

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -133 um (x), -66.0 um (y), 41.0 um (z)
Corresponding bead : Not found
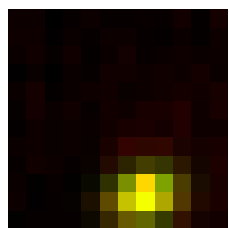Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	487 nm	507 nm	270 nm
max	646 nm	672 nm	270 nm
z	2.86 um	2.87 um	1.3 um
Asymmetry	0.754		
Theta	17.1°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
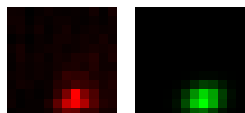
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.937$

Parameters:
 A = 318.854   (brightness)
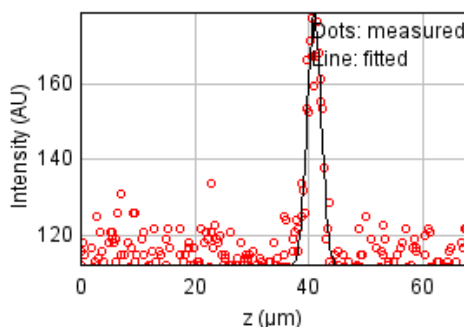 B = 120.088   (background)
 a = 0.343 px
 b = 0.069 px
 c = 0.546 px

xc = 6.955 px
yc = 9.660 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12978.0200
Standard deviation: 6.50182
R^2: 0.76292
Parameters:
 a = 111.89653
 b = 179.42775
 c = 41.00838
 d = 1.21371

Bead 2227

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

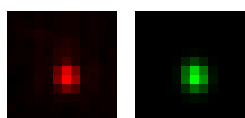Coordinates : -64.9 um (x), -67.1 um (y), 43.1 um (z)
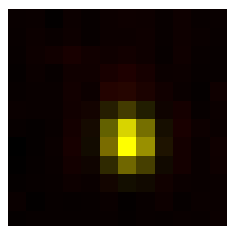Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	499 nm	520 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.864		
Theta	-78.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.973$

Parameters:
A = 601.859   (brightness)
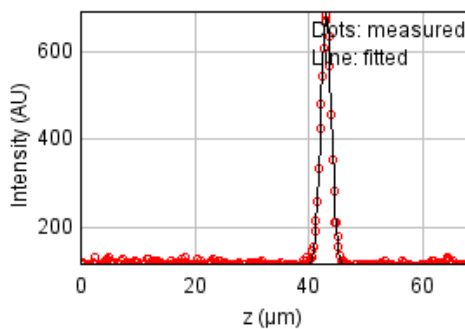B = 122.504   (background)
a = 0.714 px
b = -0.036 px
c = 0.546 px

xc = 6.083 px
yc = 6.676 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22630.3847
Standard deviation: 8.58572
R^2: 0.99037
Parameters:
a = 115.30545
b = 692.09901
c = 43.08897
d = 0.91191

Bead 2228

Date : Mon Oct 17 13:53:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
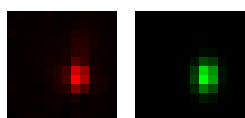Frame size : 12 pixels

Coordinates : 74.0 um (x), -73.7 um (y), 43.2 um (z)
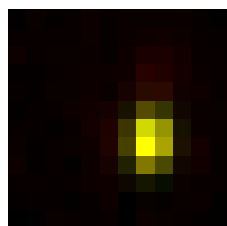Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	542 nm	564 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.71		
Theta	86.7°		

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 = 0.961

Parameters:
 A = 653.638   (brightness)
 B = 124.329   (background)
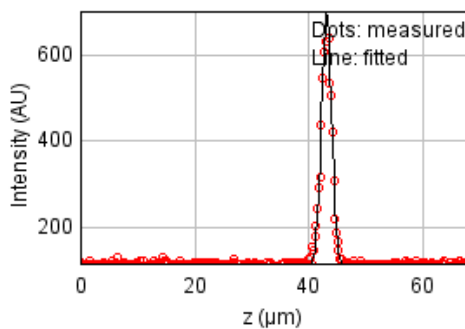 a = 0.906 px
 b = 0.026 px
 c = 0.459 px

xc = 7.264 px
yc = 6.658 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 22104.0523
Standard deviation: 8.48529
R^2: 0.99064
Parameters:
 a = 113.10920
 b = 703.66852
 c = 43.17178
 d = 0.87259

Bead 2229

Date : Mon Oct 17 13:53:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
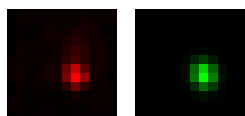Frame size : 12 pixels

Coordinates : -99.0 um (x), 46.2 um (y), 43.2 um (z)
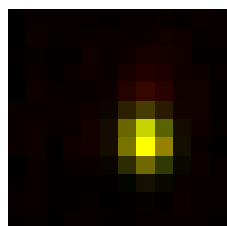Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	503 nm	524 nm	270 nm
z	2.17 um	2.18 um	1.3 um
Asymmetry	0.841		
Theta	-78.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.950$

Parameters:
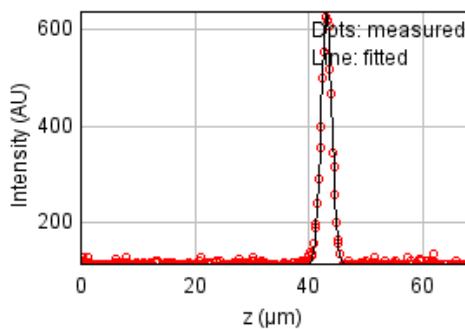A = 556.947   (brightness)
B = 122.087   (background)
a = 0.740 px
b = -0.043 px
c = 0.538 px

xc = 7.021 px
yc = 6.677 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18069.0387
Standard deviation: 7.67182
R^2: 0.99069
Parameters:
a = 114.32353
b = 636.11340
c = 43.15898
d = 0.92115

Bead 2230

Date : Mon Oct 17 13:53:06 PDT 2022
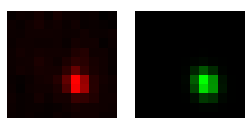Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -71.0 um (x), 30.8 um (y), 43.4 um (z)
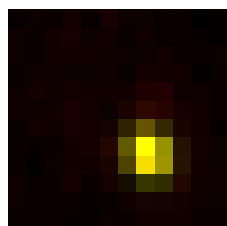Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	475 nm	495 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.845		
Theta	-69.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.967$

Parameters:
 A = 501.912   (brightness)
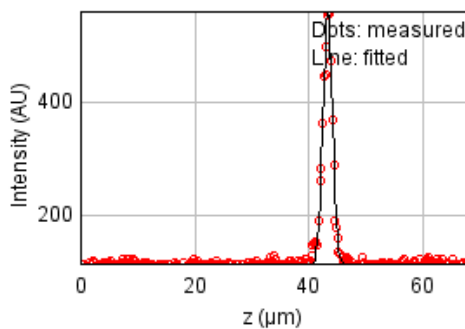 B = 122.219   (background)
 a = 0.804 px
 b = -0.078 px
 c = 0.624 px

xc = 7.190 px
yc = 7.415 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25748.9267
Standard deviation: 9.15821
R^2: 0.97988
Parameters:
 a = 114.16615
 b = 558.53695
 c = 43.36703
 d = 0.82378

Bead 2231 (Rejected)

Date : Mon Oct 17 13:53:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 1.4 um (x), 8.18 um (y), 41.8 um (z)
Corresponding bead : Not found
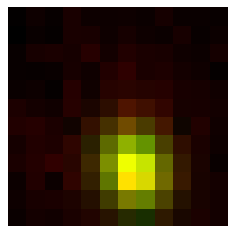Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	616 nm	642 nm	270 nm
max	757 nm	789 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.814		
Theta	-72.8°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
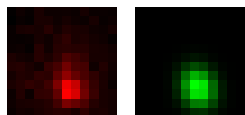
Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
   $R^2 = 0.904$

Parameters:
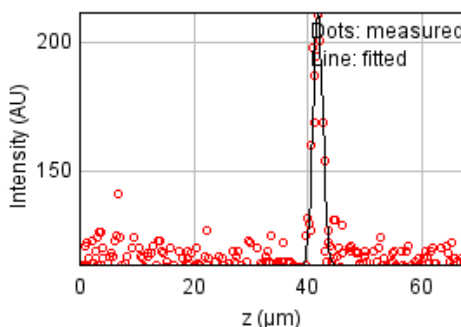 A = 201.982   (brightness)
 B = 120.178   (background)
 a = 0.343 px
 b = -0.034 px
 c = 0.244 px

x_c = 6.371 px
y_c = 8.301 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14682.9416
Standard deviation: 6.91572
R^2: 0.80958
Parameters:
 a = 113.09458
 b = 211.34111
 c = 41.82714
 d = 0.83962

Bead 2232

Date : Mon Oct 17 13:53:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
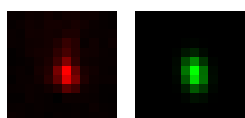Frame size : 12 pixels

Coordinates : 126 um (x), 6.2 um (y), 43.5 um (z)
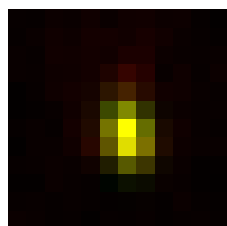Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	418 nm	270 nm
max	603 nm	628 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.665		
Theta	-79.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.947$

Parameters:
A = 584.392   (brightness)
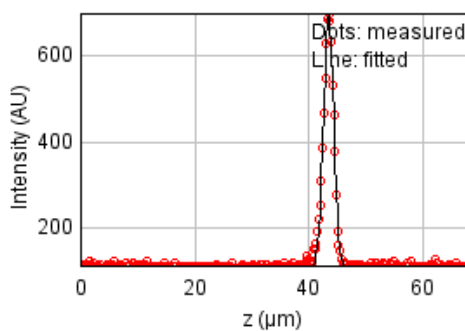B = 123.892   (background)
a = 0.819 px
b = -0.082 px
c = 0.384 px

xc = 6.014 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: 19108.3935
Standard deviation: 7.88938
R^2: 0.99189
Parameters:
 a = 111.72379
 b = 699.57754
 c = 43.52267
 d = 0.88029

Bead 2233

Date : Mon Oct 17 13:53:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
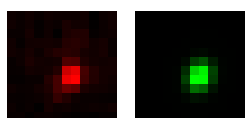Frame size : 12 pixels

Coordinates : -134 um (x), 3.71 um (y), 43.2 um (z)
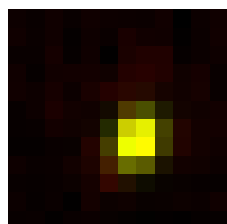Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	517 nm	539 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.815		
Theta	69.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.950$

Parameters:
 A = 380.649   (brightness)
 B = 120.498   (background)
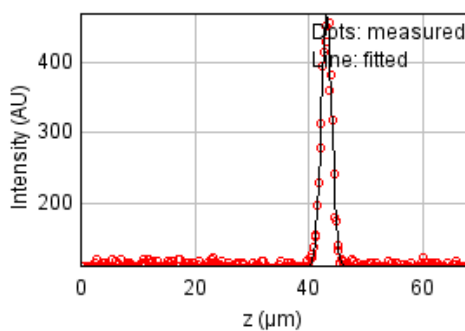 a = 0.724 px
 b = 0.084 px
 c = 0.533 px

xc = 6.532 px
yc = 6.619 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17275.0504
Standard deviation: 7.50137
R^2: 0.98119
Parameters:
 a = 111.77461
 b = 468.06414
 c = 43.17004
 d = 0.92584

Bead 2234

Date : Mon Oct 17 13:53:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
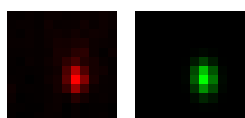Frame size : 12 pixels

Coordinates : 23.1 um (x), -2.27 um (y), 43.6 um (z)
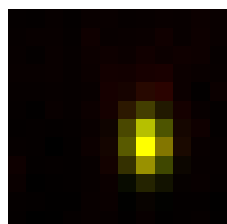Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	562 nm	585 nm	270 nm
z	2.01 um	2.01 um	1.3 um
Asymmetry	0.684		
Theta	-86.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.963$

Parameters:
 A = 553.237   (brightness)
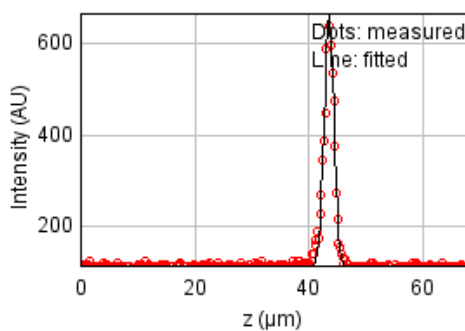 B = 121.809   (background)
 a = 0.908 px
 b = -0.030 px
 c = 0.427 px

xc = 7.070 px
yc = 6.839 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26026.5791
Standard deviation: 9.20745
R^2: 0.98701
Parameters:
 a = 114.74344
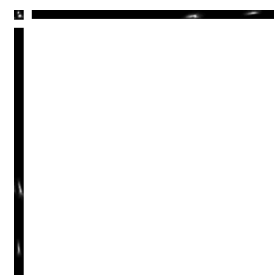 b = 664.09553
 c = 43.60382
 d = 0.85155

Bead 2235

Date : Mon Oct 17 13:53:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

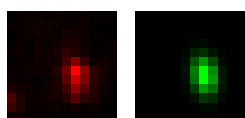Coordinates : -19.3 um (x), -44.4 um (y), 44.1 um (z)
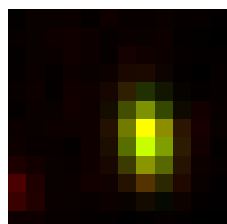Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	450 nm	468 nm	270 nm
max	711 nm	741 nm	270 nm
z	1.25 um	1.25 um	1.3 um
Asymmetry	0.632		
Theta	-81.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.915$

Parameters:
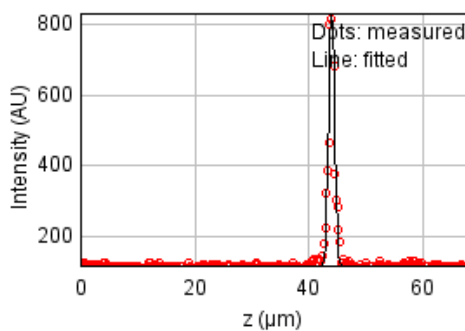 A = 630.137   (brightness)
 B = 136.942   (background)
 a = 0.656 px
 b = -0.056 px
 c = 0.273 px

 xc = 7.095 px
 yc = 6.534 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 71593.8436
Standard deviation: 15.27104
R^2: 0.96782
Parameters:
 a = 114.81009
 b = 835.58835
 c = 44.05265
 d = 0.52902

Bead 2236

Date : Mon Oct 17 13:53:07 PDT 2022
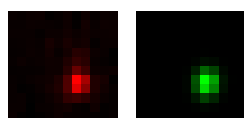Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 20.3 um (x), -55.4 um (y), 43.4 um (z)
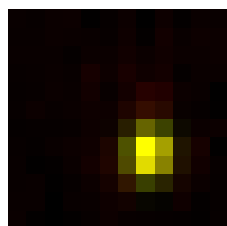Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	497 nm	518 nm	270 nm
z	1.85 um	1.86 um	1.3 um
Asymmetry	0.823		
Theta	84.3°		

XY profile & fitting parameters :

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

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

Parameters:
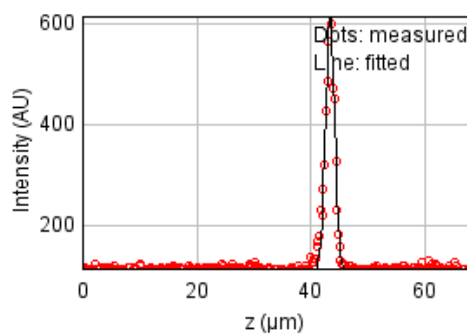 A = 559.675   (brightness)
 B = 119.611   (background)
 a = 0.800 px
 b = 0.026 px
 c = 0.546 px
xc = 7.197 px
yc = 7.349 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28659.7826
Standard deviation: 9.66200
R^2: 0.98180
Parameters:
 a = 114.21909
 b = 618.23337
 c = 43.43349
 d = 0.78771

Bead 2237

Date : Mon Oct 17 13:53:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
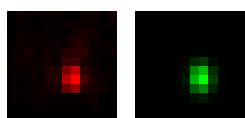Frame size : 12 pixels

Coordinates : 24.8 um (x), -68.7 um (y), 43.4 um (z)
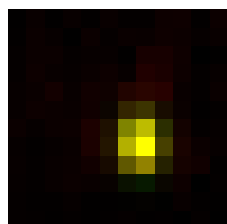Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	391 nm	407 nm	270 nm
max	523 nm	545 nm	270 nm
z	1.89 um	1.9 um	1.3 um
Asymmetry	0.747		
Theta	-88.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 539.803   (brightness)
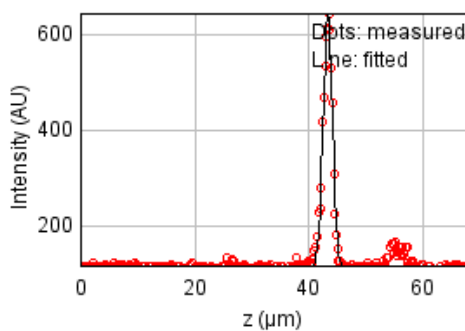 B = 123.896   (background)
 a = 0.877 px
 b = -0.010 px
 c = 0.491 px

xc = 6.710 px
yc = 6.806 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 48256.3379
Standard deviation: 12.53741
R^2: 0.97292
Parameters:
 a = 116.48317
 b = 645.81919
 c = 43.38573
 d = 0.80154

Bead 2238

Date : Mon Oct 17 13:53:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
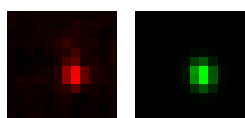Frame size : 12 pixels

Coordinates : -153 um (x), -93.9 um (y), 43.0 um (z)
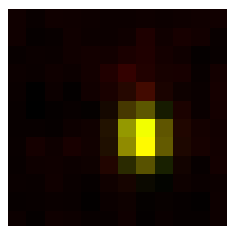Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	497 nm	517 nm	270 nm
z	2.29 um	2.3 um	1.3 um
Asymmetry	0.819		
Theta	-81.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.941$

Parameters:
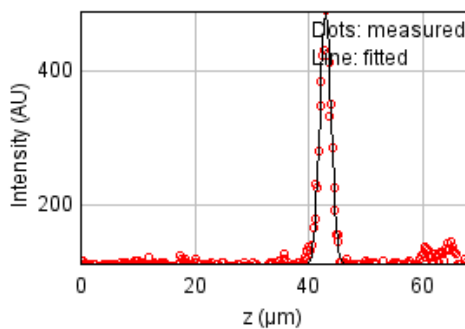A = 419.709   (brightness)
B = 117.397   (background)
a = 0.805 px
b = -0.038 px
c = 0.549 px

xc = 6.841 px
yc = 6.469 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33015.5778
Standard deviation: 10.37027
R^2: 0.96917
Parameters:
a = 113.88909
b = 487.53680
c = 42.98862
d = 0.97203

Bead 2239

Date : Mon Oct 17 13:53:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

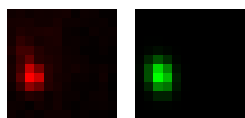Coordinates : 82.1 um (x), 93.0 um (y), 20.6 um (z)
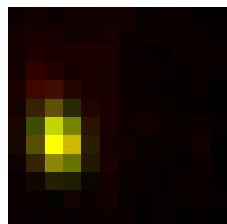Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	417 nm	435 nm	270 nm
max	587 nm	611 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.711		
Theta	-77.6°		

XY profile & fitting parameters :

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

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

Parameters:
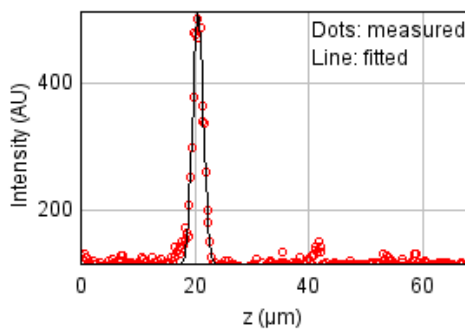 A = 396.737   (brightness)
  B = 122.809   (background)
  a = 0.753 px
  b = -0.080 px
  c = 0.407 px

  xc = 2.262 px
  yc = 6.765 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 37423.3138
Standard deviation: 11.04084
R^2: 0.96748
Parameters:
  a = 115.93403
  b = 512.15737
  c = 20.64451
  d = 0.92509

Bead 2240 (Rejected)

Date : Mon Oct 17 13:53:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 28.0 um (x), 87.6 um (y), 42.5 um (z)
Corresponding bead : Not found
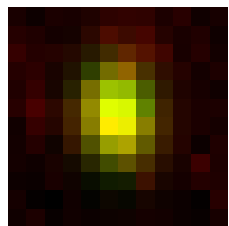Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	651 nm	678 nm	270 nm
max	903 nm	940 nm	270 nm
z	3.08 um	3.09 um	1.3 um
Asymmetry	0.721		
Theta	-84.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
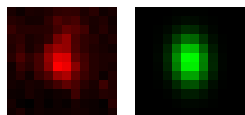
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.889$

Parameters:
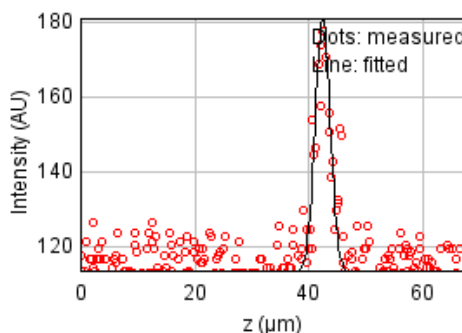 A = 166.349   (brightness)
 B = 124.959   (background)
 a = 0.315 px
 b = -0.014 px
 c = 0.166 px

xc = 5.478 px
yc = 5.330 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15995.7489
Standard deviation: 7.21827
R^2: 0.73428
Parameters:
 a = 113.67084
 b = 180.80944
 c = 42.48807
 d = 1.30645

Bead 2241

Date : Mon Oct 17 13:53:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
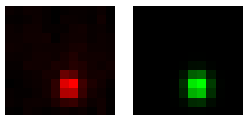Frame size : 12 pixels

Coordinates : -39.5 um (x), 19.6 um (y), 39.9 um (z)
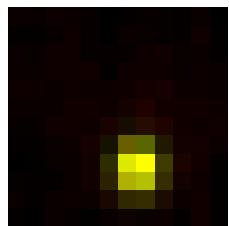Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	416 nm	433 nm	270 nm
max	474 nm	494 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.878		
Theta	-89.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.971$

Parameters:
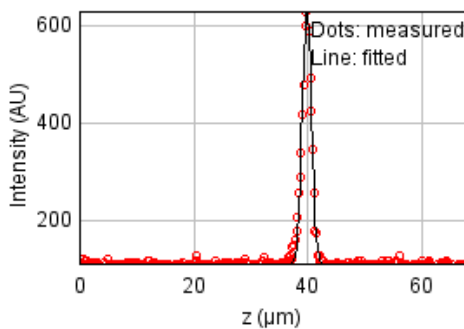 A = 585.004   (brightness)
 B = 124.225   (background)
 a = 0.775 px
 b = -0.001 px
 c = 0.598 px

xc = 6.560 px
yc = 8.263 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25888.6835
Standard deviation: 9.18303
R^2: 0.98457
Parameters:
 a = 112.57920
 b = 630.10764
 c = 39.90837
 d = 0.79887

Bead 2242

Date : Mon Oct 17 13:53:08 PDT 2022
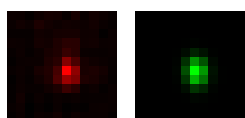Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 86.1 um (x), 2.28 um (y), 43.6 um (z)
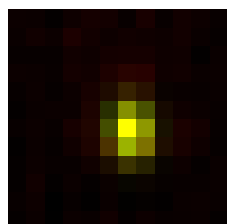Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	541 nm	563 nm	270 nm
z	1.86 um	1.87 um	1.3 um
Asymmetry	0.731		
Theta	-85.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.941$

Parameters:
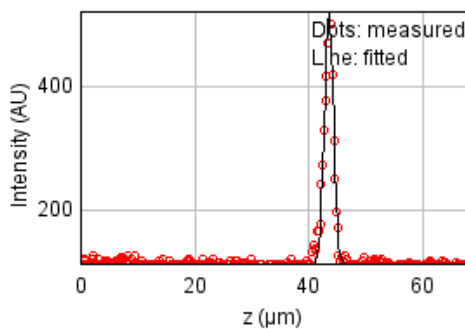 A = 397.420   (brightness)
 B = 119.264   (background)
 a = 0.856 px
 b = -0.029 px
 c = 0.461 px

xc = 6.202 px
yc = 6.129 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22758.0488
Standard deviation: 8.60990
R^2: 0.97805
Parameters:
 a = 112.23188
 b = 519.86832
 c = 43.57691
 d = 0.79030

Bead 2243

Date : Mon Oct 17 13:53:08 PDT 2022
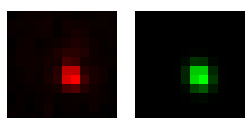Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -67.4 um (x), -2.89 um (y), 43.9 um (z)
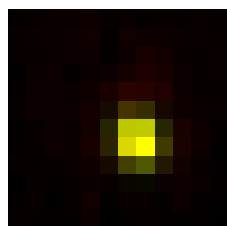Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	463 nm	483 nm	270 nm
z	2.09 um	2.09 um	1.3 um
Asymmetry	0.85		
Theta	-69.7°		

XY profile & fitting parameters :

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

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

Parameters:
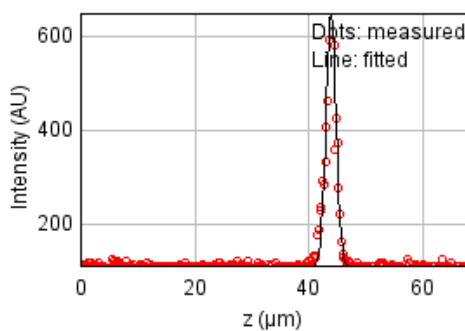 A = 666.824   (brightness)
 B = 124.313   (background)
 a = 0.837 px
 b = -0.078 px
 c = 0.654 px

xc = 6.564 px
yc = 6.626 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 66727.9973
Standard deviation: 14.74297
R^2: 0.96675
Parameters:
 a = 113.52846
 b = 647.37243
 c = 43.94596
 d = 0.88602

Bead 2244

Date : Mon Oct 17 13:53:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
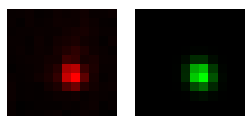Frame size : 12 pixels

Coordinates : -60.8 um (x), -25.1 um (y), 43.9 um (z)
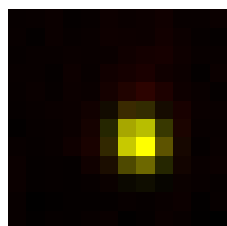Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	453 nm	270 nm
max	486 nm	506 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.895		
Theta	-63.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.970$

Parameters:
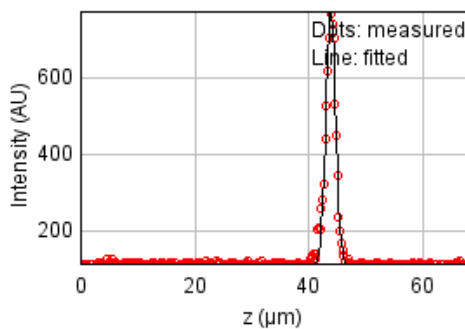A = 711.879   (brightness)
B = 124.172   (background)
a = 0.681 px
b = -0.056 px
c = 0.596 px

xc = 6.654 px
yc = 6.714 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 35328.5056
Standard deviation: 10.72737
R^2: 0.98780
Parameters:
 a = 114.31093
 b = 775.21960
 c = 43.89685
 d = 0.85100

Bead 2245

Date : Mon Oct 17 13:53:09 PDT 2022
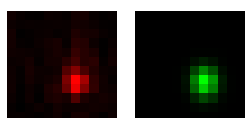Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -145 um (x), -27.9 um (y), 43.7 um (z)
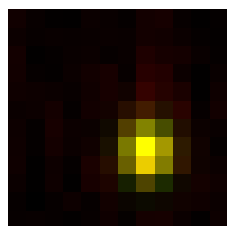Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	460 nm	479 nm	270 nm
max	551 nm	574 nm	270 nm
z	2.2 um	2.21 um	1.3 um
Asymmetry	0.835		
Theta	-87.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.936$

Parameters:
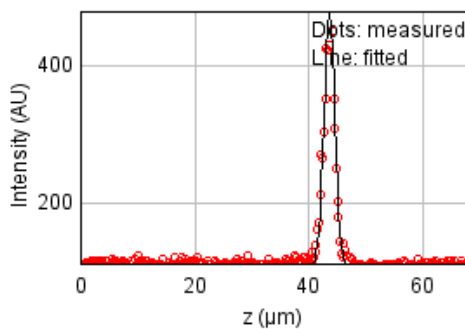A = 329.389   (brightness)
B = 119.241   (background)
a = 0.633 px
b = -0.008 px
c = 0.442 px

xc = 7.094 px
yc = 7.256 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29032.2035
Standard deviation: 9.72458
R^2: 0.97111
Parameters:
a = 110.65244
b = 479.64538
c = 43.66892
d = 0.93550

Bead 2246

Date : Mon Oct 17 13:53:09 PDT 2022
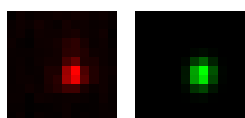Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -106 um (x), -31.0 um (y), 44.0 um (z)
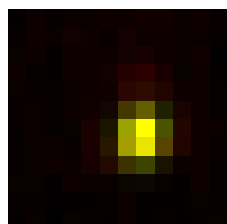Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	495 nm	516 nm	270 nm
z	2.0 um	2.01 um	1.3 um
Asymmetry	0.827		
Theta	81.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 614.615   (brightness)
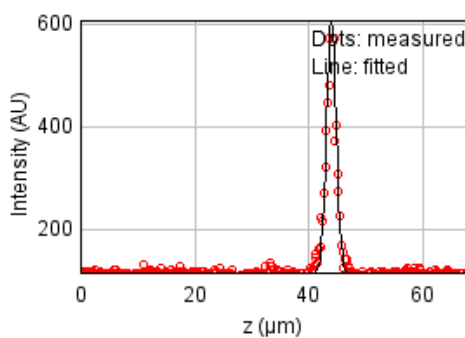 B = 120.734   (background)
 a = 0.794 px
 b = 0.037 px
 c = 0.553 px

xc = 6.765 px
yc = 6.419 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 46131.9936
Standard deviation: 12.25835
R^2: 0.97192
Parameters:
 a = 114.33351
 b = 608.02787
 c = 44.00374
 d = 0.85089

Bead 2247

Date : Mon Oct 17 13:53:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
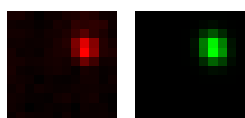Frame size : 12 pixels

Coordinates : -117 um (x), -34.3 um (y), 15.7 um (z)
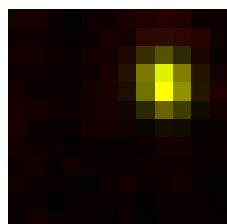Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	442 nm	460 nm	270 nm
max	519 nm	541 nm	270 nm
z	2.42 um	2.43 um	1.3 um
Asymmetry	0.851		
Theta	-75.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 315.809   (brightness)
B = 117.445   (background)
a = 0.675 px
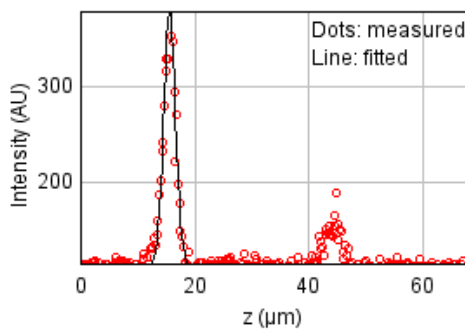b = -0.045 px
c = 0.509 px

xc = 8.059 px
yc = 3.556 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50516.2212
Standard deviation: 12.82762
R^2: 0.91458
Parameters:
a = 115.16412
b = 377.69115
c = 15.66468
d = 1.02951

Bead 2248

Date : Mon Oct 17 13:53:09 PDT 2022
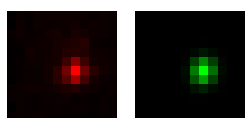Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 33.9 um (x), -58.9 um (y), 43.5 um (z)
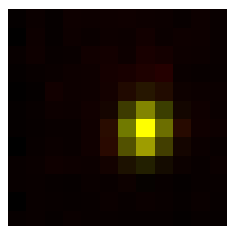Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	488 nm	508 nm	270 nm
z	1.97 um	1.98 um	1.3 um
Asymmetry	0.839		
Theta	80.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.959$

Parameters:
A = 565.357 (brightness)
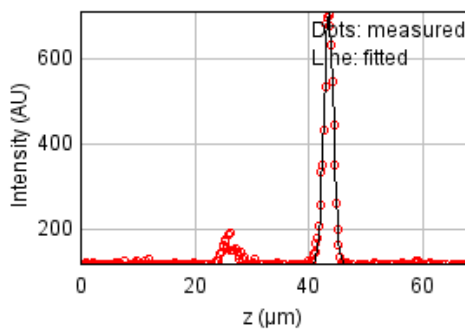B = 122.018 (background)
a = 0.794 px
b = 0.040 px
c = 0.571 px

xc = 6.964 px
yc = 6.075 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 56428.5612
Standard deviation: 13.55752
R^2: 0.97593
Parameters:
a = 117.10069
b = 712.55791
c = 43.52265
d = 0.83750

Bead 2249

Date : Mon Oct 17 13:53:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
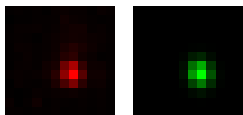Frame size : 12 pixels

Coordinates : -38.1 um (x), -75.1 um (y), 44.1 um (z)
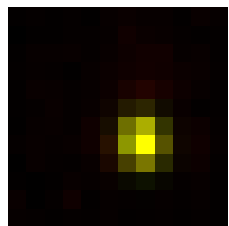Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	401 nm	417 nm	270 nm
max	484 nm	504 nm	270 nm
z	1.99 um	1.99 um	1.3 um
Asymmetry	0.828		
Theta	-81.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 607.940   (brightness)
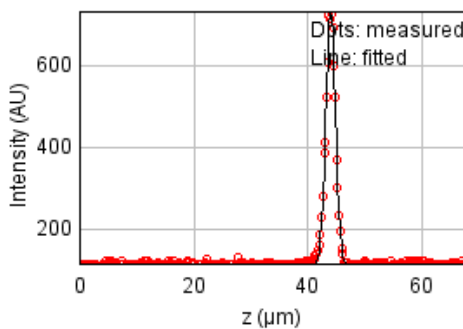 B = 124.047   (background)
 a = 0.831 px
 b = -0.037 px
 c = 0.579 px

xc = 6.810 px
yc = 6.818 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23778.0830
Standard deviation: 8.80074
R^2: 0.99063
Parameters:
 a = 113.30787
 b = 735.48185
 c = 44.06017
 d = 0.84360

Bead 2250 (Rejected)

Date : Mon Oct 17 13:53:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

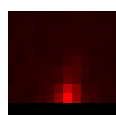Coordinates : 24.2 um (x), -96.7 um (y), 38.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

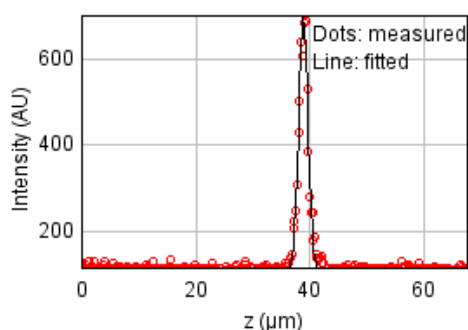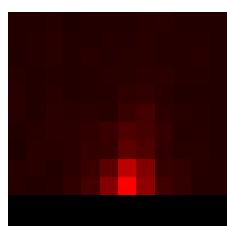| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	1.87 um	1.88 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

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: 48789.7665
Standard deviation: 12.60652
R^2: 0.97739
Parameters:
 a = 114.28033
 b = 700.77506
 c = 38.93457
 d = 0.79413

Bead 2251 (Rejected)

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 102 um (x), 91.8 um (y), 43.8 um (z)
Corresponding bead : Not found
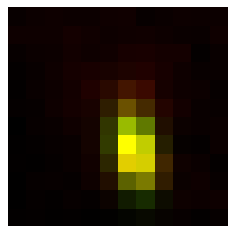Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	394 nm	411 nm	270 nm
max	744 nm	775 nm	270 nm
z	3.47 um	3.49 um	1.3 um
Asymmetry	0.53		
Theta	-79.5°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
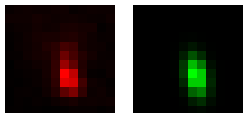
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.944$

Parameters:
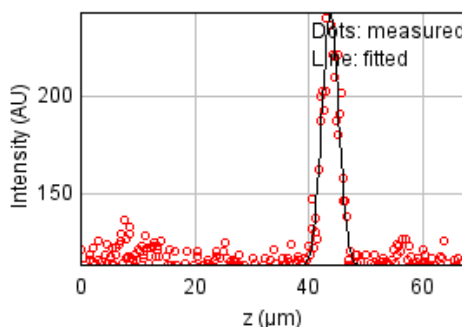 A = 574.096   (brightness)
 B = 125.876   (background)
 a = 0.843 px
 b = -0.111 px
 c = 0.263 px

xc = 6.405 px
yc = 7.258 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19933.5634
Standard deviation: 8.05793
R^2: 0.90100
Parameters:
 a = 113.82408
 b = 242.46032
 c = 43.82174
 d = 1.47456

Bead 2252 (Rejected)

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

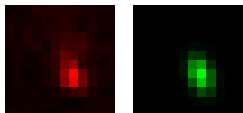Coordinates : 145 um (x), 92.1 um (y), 43.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	414 nm	270 nm
max	643 nm	670 nm	270 nm
z	2.03 um	2.03 um	1.3 um
Asymmetry	0.618		
Theta	-72.2°		

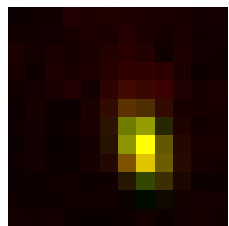## XY profile & fitting parameters :

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

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

$R^2 = 0.894$

Parameters:
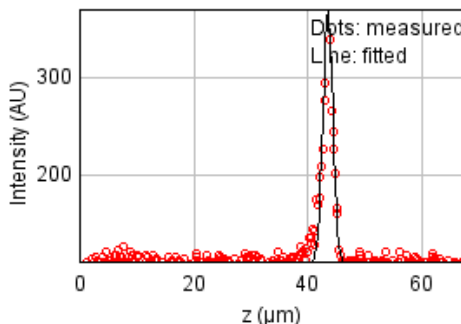A = 303.930   (brightness)
B = 118.689   (background)
a = 0.801 px
b = -0.153 px
c = 0.373 px

xc = 6.855 px
yc = 7.089 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 27394.0989
Standard deviation: 9.44625
R^2: 0.94180
Parameters:
a = 111.60451
b = 370.36479
c = 43.57523
d = 0.86045

Bead 2253

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
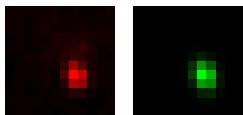Frame size : 12 pixels

Coordinates : -5.65 um (x), 85.2 um (y), 43.9 um (z)
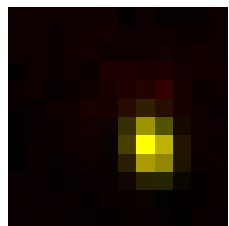Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	525 nm	547 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.726		
Theta	-74.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 666.417   (brightness)
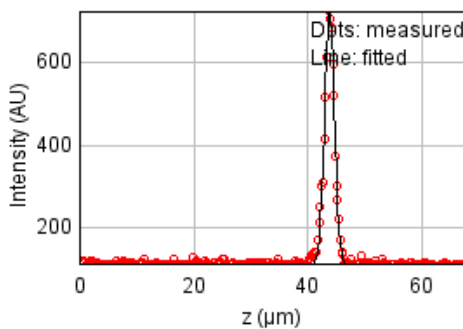 B = 126.502   (background)
 a = 0.892 px
 b = -0.112 px
 c = 0.517 px

xc = 7.307 px
yc = 7.082 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27790.4201
Standard deviation: 9.51433
R^2: 0.98897
Parameters:
 a = 113.63424
 b = 725.17759
 c = 43.85459
 d = 0.86594

Bead 2254

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
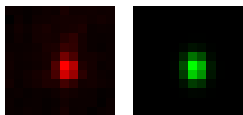Frame size : 12 pixels

Coordinates : -119 um (x), 77.7 um (y), 43.8 um (z)
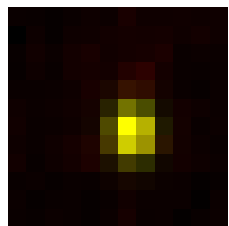Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	424 nm	270 nm
max	514 nm	535 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.794		
Theta	-87.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.963$

Parameters:
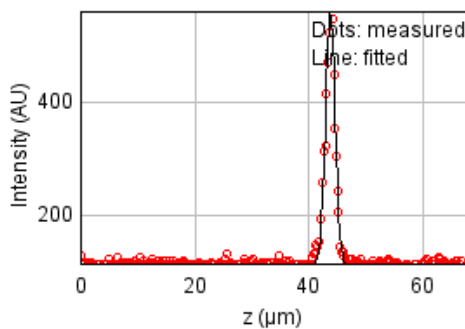 A = 497.618   (brightness)
 B = 119.827   (background)
 a = 0.807 px
 b = -0.015 px
 c = 0.510 px

xc = 6.278 px
yc = 6.294 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21732.3567
Standard deviation: 8.41365
R^2: 0.98348
Parameters:
 a = 112.67303
 b = 559.44295
 c = 43.81395
 d = 0.84172

Bead 2255

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
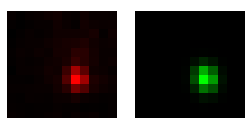Frame size : 12 pixels

Coordinates : -114 um (x), 66.8 um (y), 43.9 um (z)
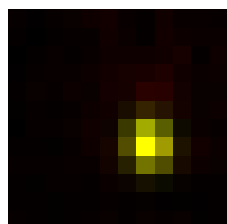Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	477 nm	496 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.83		
Theta	-79.9°		

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 = 0.955

Parameters:
 A = 642.597   (brightness)
 B = 124.987   (background)
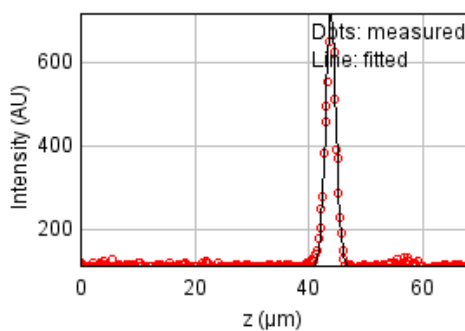 a = 0.849 px
 b = -0.046 px
 c = 0.599 px

xc = 7.197 px
yc = 6.851 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31809.0864
Standard deviation: 10.17903
R^2: 0.98775
Parameters:
 a = 112.34012
 b = 719.59809
 c = 43.89728
 d = 0.90653

Bead 2256

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
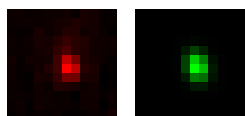Frame size : 12 pixels

Coordinates : 61.7 um (x), 42.4 um (y), 43.7 um (z)
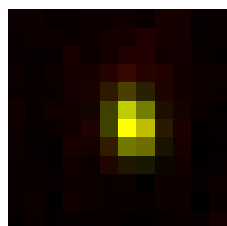Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	413 nm	270 nm
max	540 nm	562 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.735		
Theta	-75.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 429.835   (brightness)
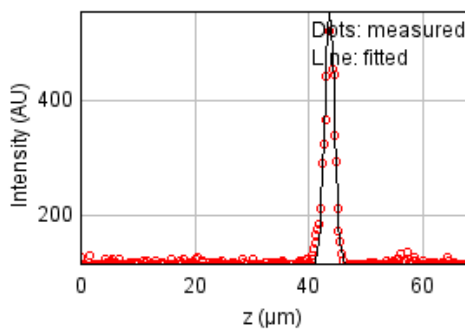B = 120.233   (background)
a = 0.828 px
b = -0.094 px
c = 0.485 px

xc = 6.292 px
yc = 5.783 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28806.2576
Standard deviation: 9.68666
R^2: 0.97873
Parameters:
a = 113.91682
b = 559.72170
c = 43.68692
d = 0.86715

Bead 2257

Date : Mon Oct 17 13:53:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
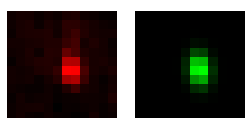Frame size : 12 pixels

Coordinates : 116 um (x), 38.4 um (y), 43.4 um (z)
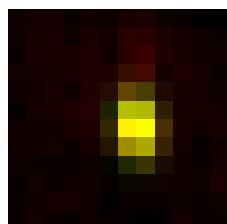Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	599 nm	624 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.651		
Theta	-84.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.933$

Parameters:
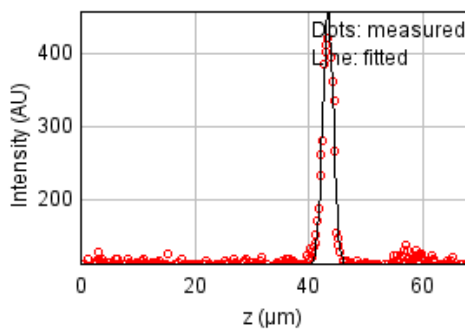A = 374.897 (brightness)
B = 117.615 (background)
a = 0.876 px
b = -0.050 px
c = 0.379 px

xc = 6.525 px
yc = 5.875 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25842.3768
Standard deviation: 9.17481
R^2: 0.97033
Parameters:
a = 112.82639
b = 459.21997
c = 43.42998
d = 0.91835

Bead 2258

Date : Mon Oct 17 13:53:11 PDT 2022
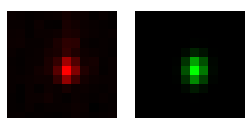Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -110 um (x), 22.8 um (y), 43.9 um (z)
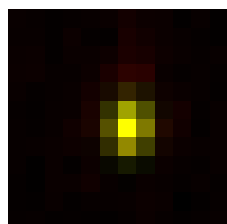Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	392 nm	270 nm
max	499 nm	520 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.753		
Theta	87.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 558.752   (brightness)
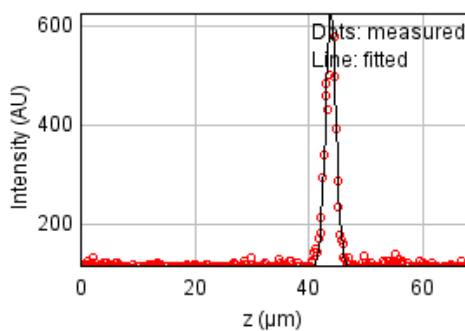 B = 120.714   (background)
 a = 0.947 px
 b = 0.017 px
 c = 0.539 px

xc = 6.109 px
yc = 5.916 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 53878.6762
Standard deviation: 13.24766
R^2: 0.97195
Parameters:
 a = 113.59183
 b = 628.97077
 c = 43.89860
 d = 0.91649

Bead 2259

Date : Mon Oct 17 13:53:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
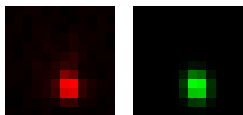Frame size : 12 pixels

Coordinates : -16.0 um (x), 12.6 um (y), 40.0 um (z)
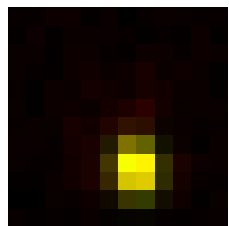Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	408 nm	425 nm	270 nm
max	505 nm	526 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.808		
Theta	-81.1°		

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:
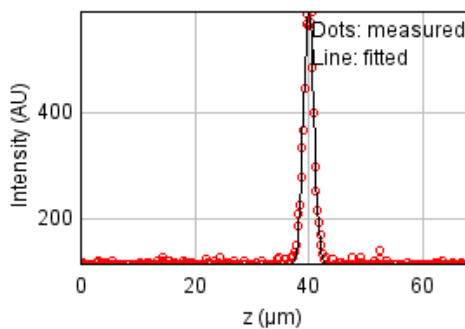A = 588.021   (brightness)
B = 123.573   (background)
a = 0.799 px
b = -0.043 px
c = 0.533 px

xc = 6.485 px
yc = 8.295 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24722.5683
Standard deviation: 8.97383
R^2: 0.98456
Parameters:
a = 113.70594
b = 591.90576
c = 40.03953
d = 0.89760

Bead 2260

Date : Mon Oct 17 13:53:11 PDT 2022
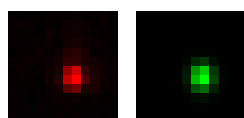Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -59.9 um (x), -22.7 um (y), 44.3 um (z)
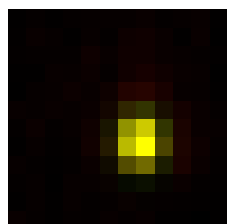Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	420 nm	270 nm
max	490 nm	510 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.824		
Theta	-89.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.971$

Parameters:
 A = 935.457   (brightness)
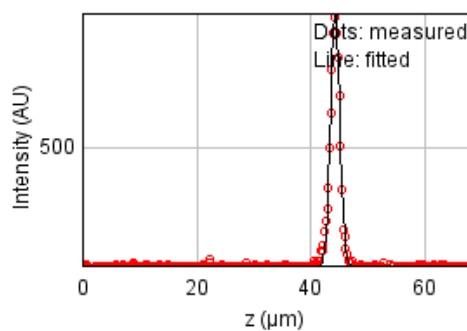 B = 130.308   (background)
 a = 0.823 px
 b = -0.004 px
 c = 0.560 px

xc = 6.694 px
yc = 6.711 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29963.2481
Standard deviation: 9.87928
R^2: 0.99321
Parameters:
 a = 113.45431
 b = 948.30640
 c = 44.33249
 d = 0.81518

Bead 2261

Date : Mon Oct 17 13:53:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
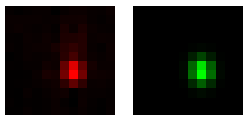Frame size : 12 pixels

Coordinates : 32.1 um (x), -53.7 um (y), 43.9 um (z)
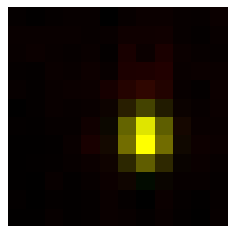Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	395 nm	412 nm	270 nm
max	491 nm	511 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.806		
Theta	-87.8°		

XY profile & fitting parameters :

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

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

Parameters:
A = 651.563   (brightness)
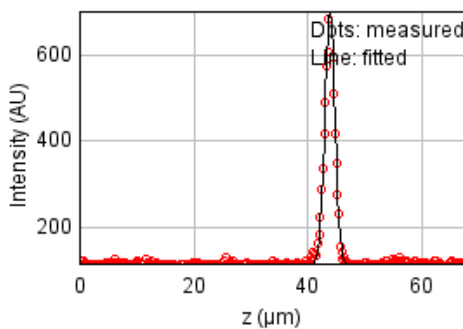B = 122.208   (background)
a = 0.858 px
b = -0.012 px
c = 0.558 px

xc = 6.990 px
yc = 6.598 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22896.5142
Standard deviation: 8.63606
R^2: 0.99034
Parameters:
a = 113.32495
b = 702.32012
c = 43.91600
d = 0.88080

Bead 2262

Date : Mon Oct 17 13:53:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
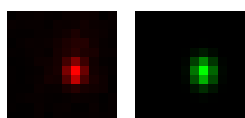Frame size : 12 pixels

Coordinates : 79.6 um (x), -55.8 um (y), 43.9 um (z)
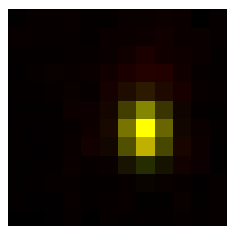Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	396 nm	412 nm	270 nm
max	514 nm	535 nm	270 nm
z	1.84 um	1.84 um	1.3 um
Asymmetry	0.77		
Theta	-88.6°		

XY profile & fitting parameters :

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

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

Parameters:
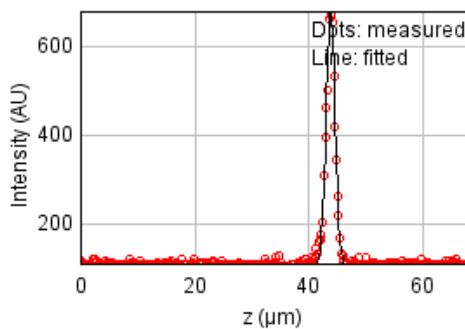 A = 578.692   (brightness)
 B = 121.504   (background)
 a = 0.856 px
 b = -0.009 px
 c = 0.508 px

xc = 6.960 px
yc = 6.137 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24377.1205
Standard deviation: 8.91091
R^2: 0.98763
Parameters:
 a = 112.24341
 b = 680.59426
 c = 43.85968
 d = 0.77954

Bead 2263

Date : Mon Oct 17 13:53:12 PDT 2022
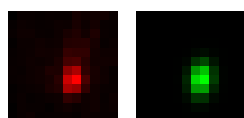Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 86.4 um (x), -57.7 um (y), 44.1 um (z)
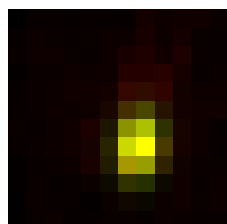Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	404 nm	420 nm	270 nm
max	603 nm	628 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.669		
Theta	82.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 557.191   (brightness)
 B = 120.335   (background)
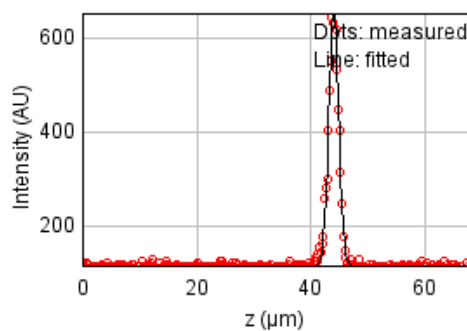 a = 0.817 px
 b = 0.056 px
 c = 0.376 px

xc = 6.606 px
yc = 6.927 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 18265.2918
Standard deviation: 7.71337
R^2: 0.99086
Parameters:
 a = 112.73360
 b = 653.76807
 c = 44.06944
 d = 0.88022

Bead 2264 (Rejected)

Date : Mon Oct 17 13:53:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 28.0 um (x), 87.6 um (y), 42.5 um (z)
Corresponding bead : Not found
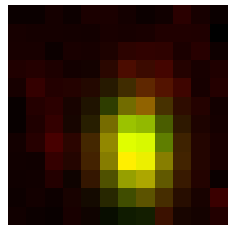Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	642 nm	669 nm	270 nm
max	906 nm	944 nm	270 nm
z	3.08 um	3.09 um	1.3 um
Asymmetry	0.708		
Theta	-84.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
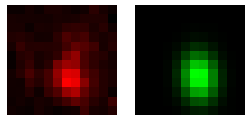
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.897$

Parameters:
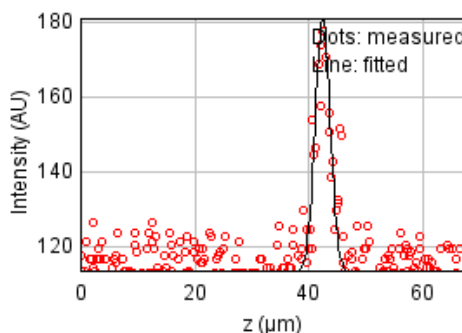 A = 165.190   (brightness)
 B = 126.042   (background)
 a = 0.324 px
 b = -0.014 px
 c = 0.165 px

xc = 6.478 px
yc = 7.340 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15995.7489
Standard deviation: 7.21827
R^2: 0.73428
Parameters:
 a = 113.67084
 b = 180.80944
 c = 42.48807
 d = 1.30645

Bead 2265 (Rejected)

Date : Mon Oct 17 13:53:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

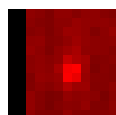Coordinates : -164 um (x), 81.4 um (y), 42.9 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

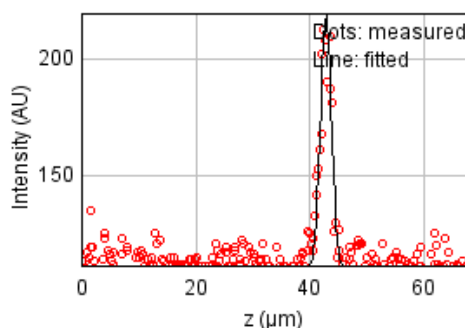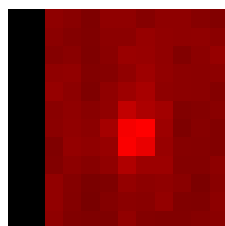| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

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: 14521.9299
Standard deviation: 6.87770
R^2: 0.85539
Parameters:
 a = 110.68298
 b = 219.57605
 c = 42.89345
 d = 0.94595

Bead 2266 (Rejected)

Date : Mon Oct 17 13:53:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -11.4 um (x), 44.3 um (y), 40.4 um (z)
Corresponding bead : Not found
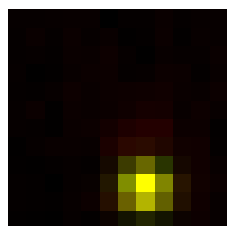Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	458 nm	477 nm	270 nm
max	468 nm	487 nm	270 nm
z	3.62 um	3.64 um	1.3 um
Asymmetry	0.978		
Theta	-36.9°		

XY profile & fitting parameters :

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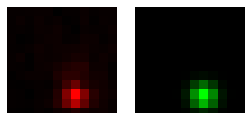
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$

$R^2 = 0.955$

Parameters:
 A = 643.382   (brightness)
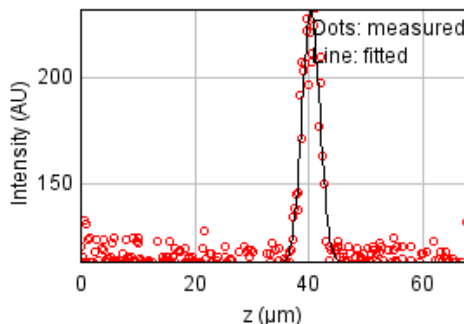 B = 126.849   (background)
 a = 0.623 px
 b = -0.014 px
 c = 0.631 px

xc = 6.978 px
yc = 9.221 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19462.8667
Standard deviation: 7.96222
R^2: 0.89287
Parameters:
 a = 112.81016
 b = 232.14273
 c = 40.43672
 d = 1.53751

Bead 2267

Date : Mon Oct 17 13:53:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
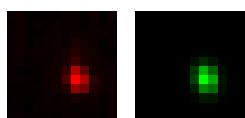Frame size : 12 pixels

Coordinates : -94.1 um (x), 18.4 um (y), 43.7 um (z)
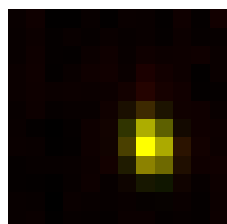Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	383 nm	399 nm	270 nm
max	514 nm	535 nm	270 nm
z	2.03 um	2.04 um	1.3 um
Asymmetry	0.746		
Theta	-76.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 476.606   (brightness)
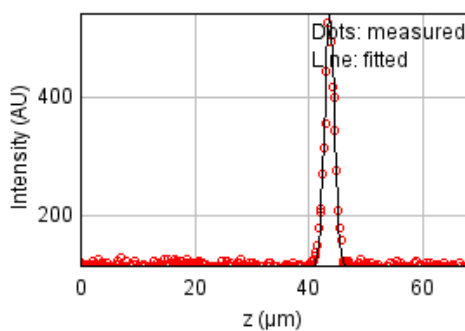 B = 118.914   (background)
 a = 0.891 px
 b = -0.092 px
 c = 0.530 px

xc = 7.264 px
yc = 6.911 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25953.7205
Standard deviation: 9.19455
R^2: 0.97916
Parameters:
 a = 113.89379
 b = 542.73691
 c = 43.67998
 d = 0.86197

Bead 2268

Date : Mon Oct 17 13:53:13 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
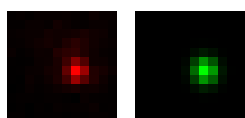Frame size : 12 pixels

Coordinates : 12.8 um (x), 14.0 um (y), 44.3 um (z)
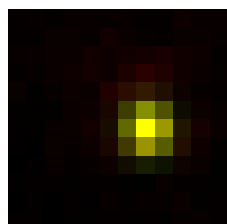Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	490 nm	510 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.89		
Theta	-82.2°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.948$

   Parameters:
   A = 606.155   (brightness)
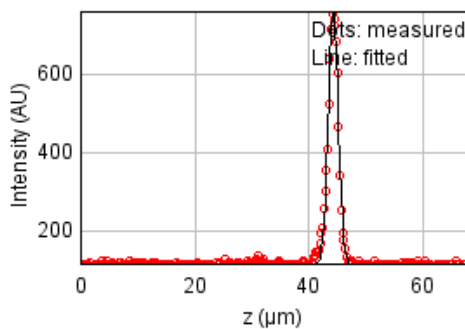   B = 126.039   (background)
   a = 0.704 px
   b = -0.020 px
   c = 0.562 px

xc = 7.136 px
yc = 6.018 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 29943.4478
Standard deviation: 9.87601
R^2: 0.98958
Parameters:
 a = 114.79435
 b = 762.79667
 c = 44.34678
 d = 0.88110

Bead 2269

Date : Mon Oct 17 13:53:13 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
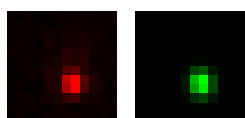Frame size : 12 pixels

Coordinates : -71.3 um (x), -8.56 um (y), 44.1 um (z)
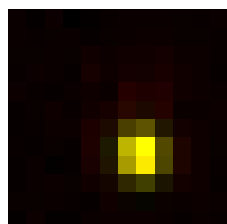Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	422 nm	270 nm
max	471 nm	491 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.861		
Theta	-80.7°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.968$

  Parameters:
  A = 740.696   (brightness)
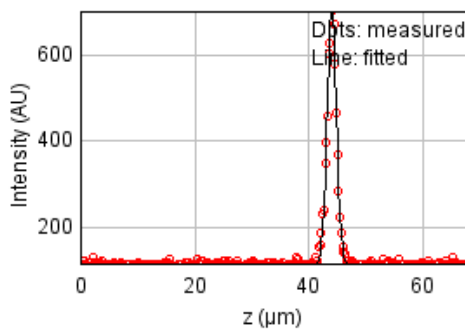 B = 123.258   (background)
  a = 0.810 px
  b = -0.034 px
  c = 0.610 px

xc = 6.730 px
yc = 7.412 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21303.3836
Standard deviation: 8.33019
R^2: 0.99046
Parameters:
 a = 113.44418
 b = 704.86178
 c = 44.08111
 d = 0.81980

Bead 2270 (Rejected)

Date : Mon Oct 17 13:53:13 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 113 um (x), -20.2 um (y), 40.8 um (z)
Corresponding bead : Not found
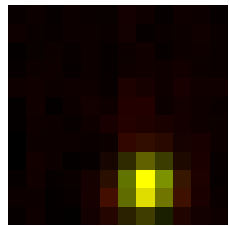Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	442 nm	461 nm	270 nm
max	495 nm	515 nm	270 nm
z	3.59 um	3.61 um	1.3 um
Asymmetry	0.894		
Theta	74.6°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
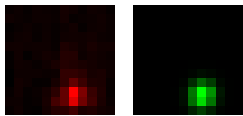
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.917$

Parameters:
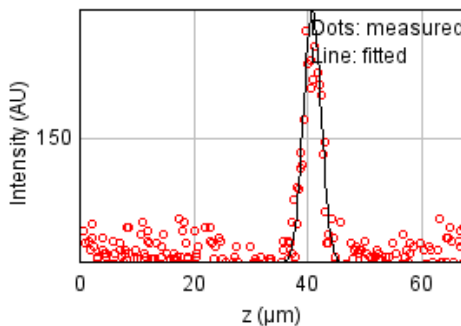 A = 351.364   (brightness)
 B = 120.279   (background)
 a = 0.676 px
 b = 0.035 px
 c = 0.558 px

xc = 7.065 px
yc = 9.361 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14538.2499
Standard deviation: 6.88156
R^2: 0.83185
Parameters:
 a = 110.87494
 b = 190.59796
 c = 40.84638
 d = 1.52642

Bead 2271

Date : Mon Oct 17 13:53:13 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
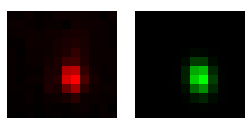Frame size : 12 pixels

Coordinates : 7.62 um (x), -25.6 um (y), 44.3 um (z)
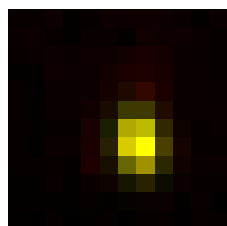Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	419 nm	270 nm
max	558 nm	581 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.721		
Theta	-80.9°		

XY profile & fitting parameters :

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

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

Parameters:
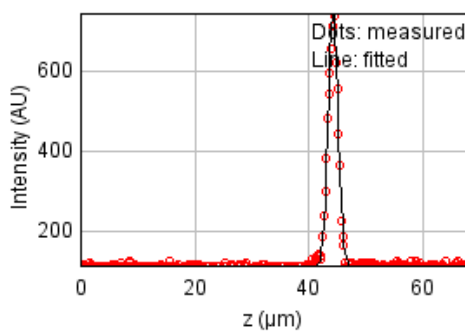 A = 683.860   (brightness)
 B = 121.042   (background)
 a = 0.818 px
 b = -0.062 px
 c = 0.441 px

xc = 6.624 px
yc = 6.804 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28609.0947
Standard deviation: 9.65346
R^2: 0.98957
Parameters:
 a = 112.80535
 b = 747.10246
 c = 44.31667
 d = 0.87809

Bead 2272 (Rejected)

Date : Mon Oct 17 13:53:13 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

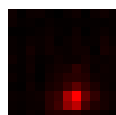Coordinates : -130 um (x), -54.2 um (y), 40.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

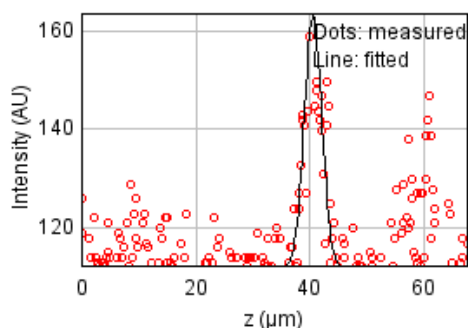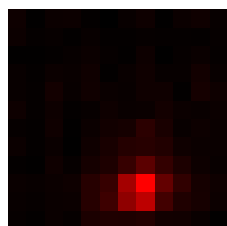| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.54 um	3.55 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

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: 20973.4086
Standard deviation: 8.26543
R^2: 0.58578
Parameters:
 a = 112.03738
 b = 163.61994
 c = 40.63703
 d = 1.50155

Bead 2273

Date : Mon Oct 17 13:53:13 PDT 2022
Origin : data_traditional.tif   (Nikon 40x0.95 air)
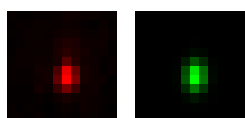Frame size : 12 pixels

Coordinates : -46.2 um (x), -70.2 um (y), 44.0 um (z)
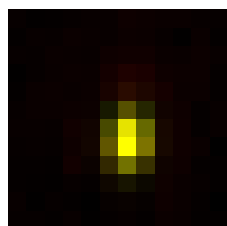Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	377 nm	392 nm	270 nm
max	537 nm	560 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.701		
Theta	87.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
A = 664.394   (brightness)
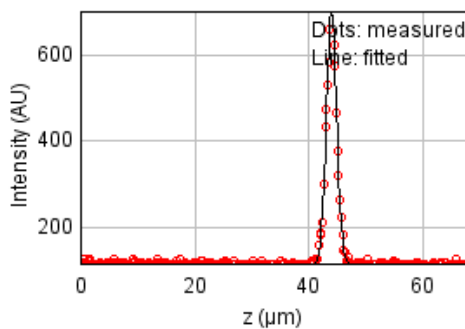B = 123.393   (background)
a = 0.946 px
b = 0.017 px
c = 0.466 px

xc = 6.082 px
yc = 6.625 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23452.0390
Standard deviation: 8.74019
R^2: 0.99038
Parameters:
 a = 113.19648
 b = 702.68314
 c = 44.02574
 d = 0.90486

Bead 2274

Date : Mon Oct 17 13:53:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
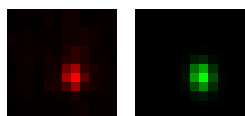Frame size : 12 pixels

Coordinates : -35.0 um (x), -71.4 um (y), 44.1 um (z)
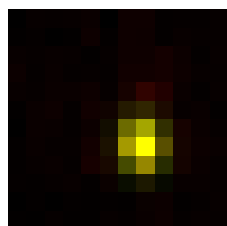Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	398 nm	414 nm	270 nm
max	502 nm	523 nm	270 nm
z	1.94 um	1.95 um	1.3 um
Asymmetry	0.792		
Theta	-83.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 593.066   (brightness)
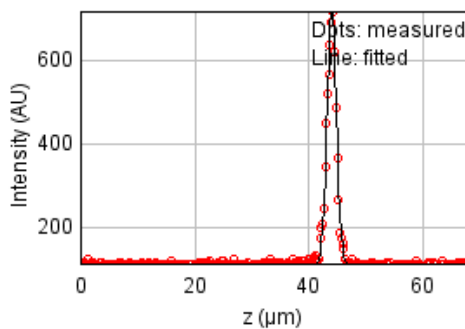 B = 125.842   (background)
 a = 0.844 px
 b = -0.037 px
 c = 0.537 px

xc = 6.795 px
yc = 6.890 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30038.3439
Standard deviation: 9.89165
R^2: 0.98723
Parameters:
 a = 113.09168
 b = 717.99434
 c = 44.07551
 d = 0.82293

Bead 2275 (Rejected)

Date : Mon Oct 17 13:53:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

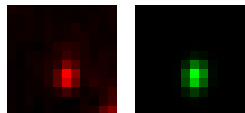Coordinates : -33.0 um (x), -73.0 um (y), 44.2 um (z)
Corresponding bead : Not found
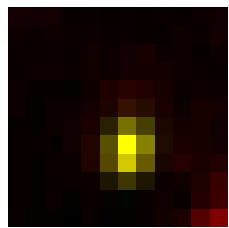Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	506 nm	527 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.753		
Theta	81.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.821$

Parameters:
A = 555.237   (brightness)
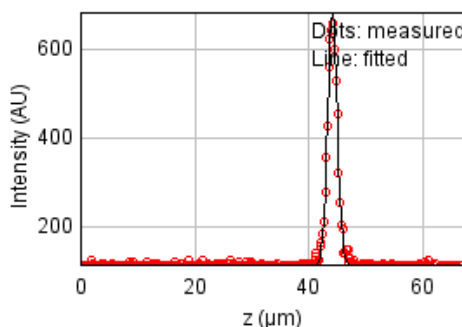B = 135.865   (background)
a = 0.916 px
b = 0.056 px
c = 0.533 px

xc = 6.110 px
yc = 7.257 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19221.8677
Standard deviation: 7.91277
R^2: 0.99098
Parameters:
a = 113.23727
b = 683.67062
c = 44.20527
d = 0.84222

Bead 2276 (Rejected)

Date : Mon Oct 17 13:53:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

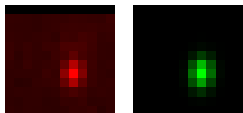Coordinates : -107 um (x), 95.8 um (y), 44.2 um (z)
Corresponding bead : Not found
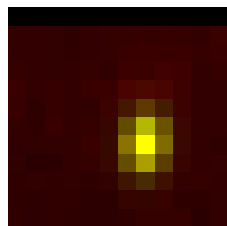Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	578 nm	602 nm	270 nm
z	2.07 um	2.08 um	1.3 um
Asymmetry	0.691		
Theta	85.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.757$

Parameters:
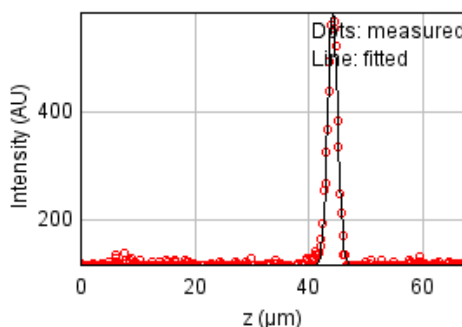 A = 468.143 (brightness)
 B = 108.753 (background)
 a = 0.839 px
 b = 0.036 px
 c = 0.405 px

xc = 6.985 px
yc = 6.910 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23405.2394
Standard deviation: 8.73147
R^2: 0.98480
Parameters:
 a = 113.67114
 b = 586.99585
 c = 44.24650
 d = 0.88065

Bead 2277

Date : Mon Oct 17 13:53:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
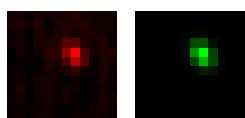Frame size : 12 pixels

Coordinates : -148 um (x), 70.7 um (y), 23.4 um (z)
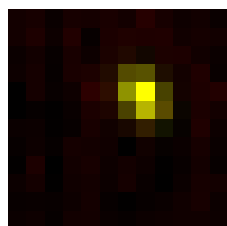Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	349 nm	363 nm	270 nm
max	475 nm	495 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.735		
Theta	-57.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.916$

Parameters:
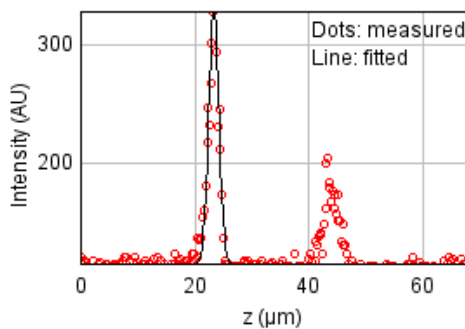 A = 228.526   (brightness)
 B = 114.360   (background)
 a = 0.954 px
 b = -0.231 px
 c = 0.744 px

xc = 6.847 px
yc = 4.222 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 76029.3267
Standard deviation: 15.73698
R^2: 0.80938
Parameters:
 a = 114.74281
 b = 330.22140
 c = 23.42528
 d = 0.90595

Bead 2278

Date : Mon Oct 17 13:53:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
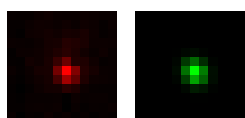Frame size : 12 pixels

Coordinates : -114 um (x), 50.9 um (y), 44.7 um (z)
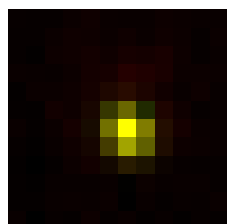Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	403 nm	420 nm	270 nm
max	465 nm	485 nm	270 nm
z	1.98 um	1.98 um	1.3 um
Asymmetry	0.866		
Theta	-58.4°		

XY profile & fitting parameters :

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

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

Parameters:
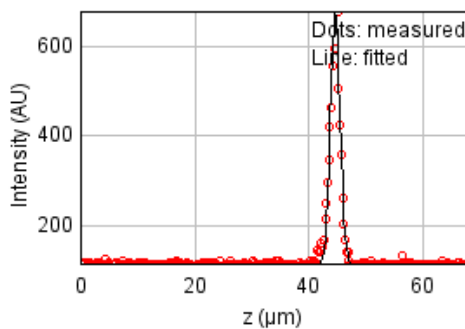 A = 571.925   (brightness)
 B = 124.297   (background)
 a = 0.769 px
 b = -0.092 px
 c = 0.676 px

xc = 6.052 px
yc = 6.177 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 39183.9568
Standard deviation: 11.29757
R^2: 0.98148
Parameters:
 a = 112.43816
 b = 679.17355
 c = 44.69390
 d = 0.83922

Bead 2279

Date : Mon Oct 17 13:53:14 PDT 2022
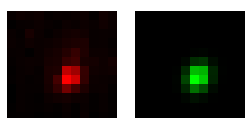Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -78.9 um (x), 42.0 um (y), 44.4 um (z)
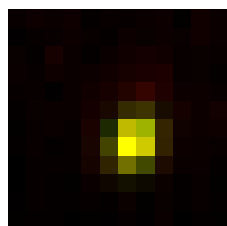Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	422 nm	270 nm
max	502 nm	523 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.808		
Theta	68.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.955$

Parameters:
A = 621.103   (brightness)
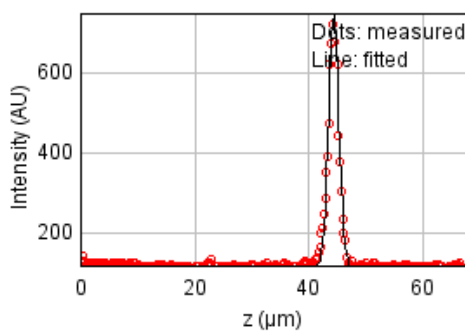B = 125.286   (background)
a = 0.778 px
b = 0.096 px
c = 0.570 px

xc = 6.383 px
yc = 6.711 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 47743.2851
Standard deviation: 12.47059
R^2: 0.98303
Parameters:
 a = 115.19525
 b = 747.55233
 c = 44.42131
 d = 0.90117

Bead 2280

Date : Mon Oct 17 13:53:15 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
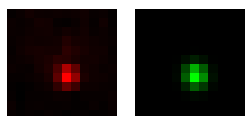Frame size : 12 pixels

Coordinates : 48.9 um (x), 40.9 um (y), 44.4 um (z)
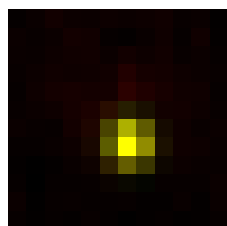Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	443 nm	461 nm	270 nm
z	1.57 um	1.58 um	1.3 um
Asymmetry	0.92		
Theta	-75.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.953$

Parameters:
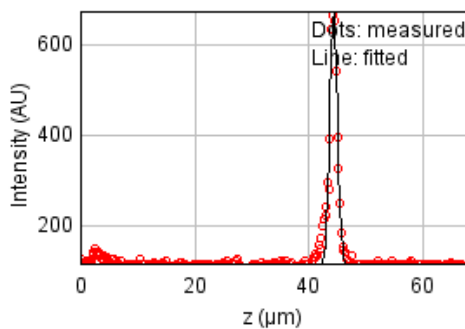A = 550.010   (brightness)
B = 125.043   (background)
a = 0.801 px
b = -0.030 px
c = 0.693 px

xc = 6.118 px
yc = 6.776 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 71843.0545
Standard deviation: 15.29760
R^2: 0.95767
Parameters:
a = 116.28164
b = 675.57184
c = 44.40921
d = 0.66839

Bead 2281

Date : Mon Oct 17 13:53:15 PDT 2022
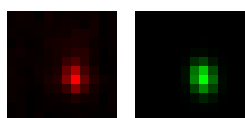Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 105 um (x), 23.5 um (y), 44.4 um (z)
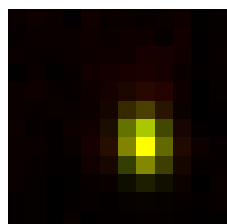Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	411 nm	428 nm	270 nm
max	557 nm	580 nm	270 nm
z	1.93 um	1.94 um	1.3 um
Asymmetry	0.738		
Theta	-80.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.951$

Parameters:
A = 502.603   (brightness)
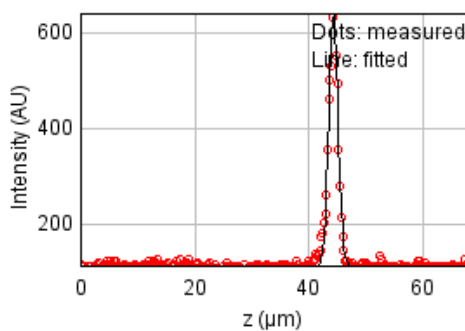B = 122.701   (background)
a = 0.785 px
b = -0.059 px
c = 0.442 px

xc = 6.910 px
yc = 6.775 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28127.7657
Standard deviation: 9.57191
R^2: 0.98450
Parameters:
 a = 111.78491
 b = 643.61949
 c = 44.36794
 d = 0.81907

Bead 2282

Date : Mon Oct 17 13:53:15 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
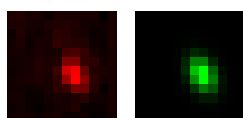Frame size : 12 pixels

Coordinates : -132 um (x), -12.7 um (y), 43.9 um (z)
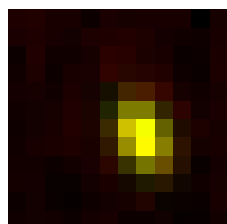Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	659 nm	686 nm	270 nm
z	2.2 um	2.21 um	1.3 um
Asymmetry	0.668		
Theta	-65.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.948$

Parameters:
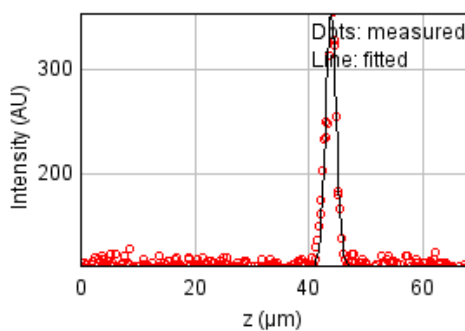 A = 268.074   (brightness)
 B = 114.383   (background)
 a = 0.628 px
 b = -0.144 px
 c = 0.374 px

  xc = 6.815 px
  yc = 6.398 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 23195.8155
Standard deviation: 8.69232
R^2: 0.94774
Parameters:
 a = 111.25877
 b = 353.48787
 c = 43.93931
 d = 0.93565

Bead 2283

Date : Mon Oct 17 13:53:15 PDT 2022
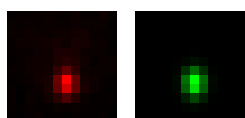Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 59.6 um (x), -14.3 um (y), 44.5 um (z)
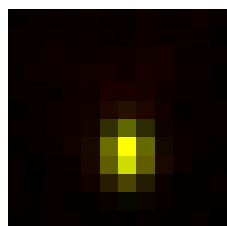Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	393 nm	410 nm	270 nm
max	505 nm	526 nm	270 nm
z	1.88 um	1.89 um	1.3 um
Asymmetry	0.779		
Theta	-88.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.971$

Parameters:
A = 832.380 (brightness)
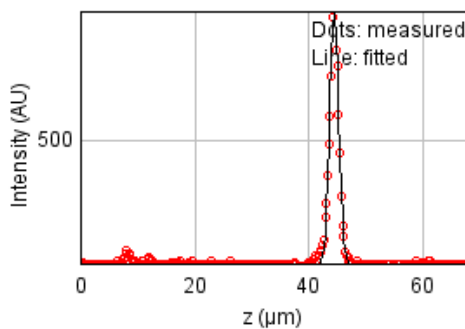B = 130.226 (background)
a = 0.867 px
b = -0.011 px
c = 0.526 px

xc = 5.990 px
yc = 7.357 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 42128.6092
Standard deviation: 11.71438
R^2: 0.98904
Parameters:
a = 116.12834
b = 901.84756
c = 44.51256
d = 0.79761

Bead 2284

Date : Mon Oct 17 13:53:15 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
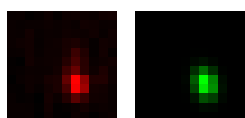Frame size : 12 pixels

Coordinates : -135 um (x), -27.7 um (y), 44.0 um (z)
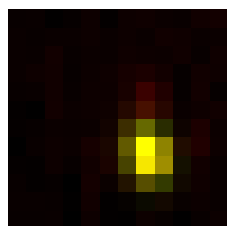Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	390 nm	407 nm	270 nm
max	534 nm	556 nm	270 nm
z	2.12 um	2.13 um	1.3 um
Asymmetry	0.731		
Theta	-76.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.943$

Parameters:
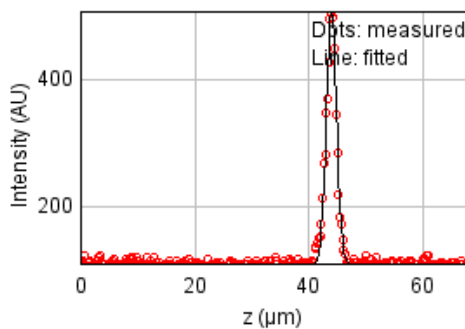A = 431.489   (brightness)
B = 119.952   (background)
a = 0.857 px
b = -0.095 px
c = 0.494 px

xc = 7.155 px
yc = 7.428 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21203.1047
Standard deviation: 8.31056
R^2: 0.98060
Parameters:
 a = 111.03016
 b = 504.67211
 c = 44.02434
 d = 0.90093

Bead 2285

Date : Mon Oct 17 13:53:15 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
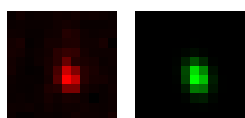Frame size : 12 pixels

Coordinates : -146 um (x), -37.9 um (y), 44.1 um (z)
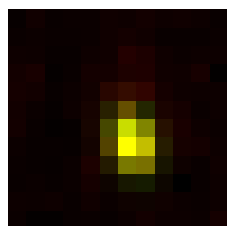Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	568 nm	592 nm	270 nm
z	2.26 um	2.27 um	1.3 um
Asymmetry	0.702		
Theta	-74.9°		

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:
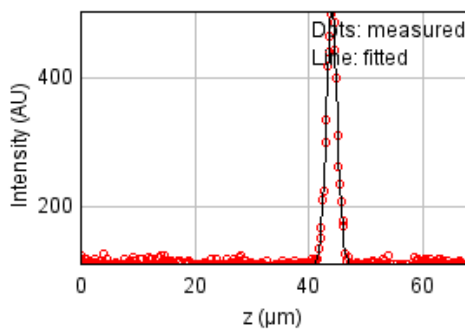A = 415.183   (brightness)
B = 116.871   (background)
a = 0.814 px
b = -0.107 px
c = 0.445 px

xc = 6.285 px
yc = 6.729 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15206.7600
Standard deviation: 7.03800
R^2: 0.98678
Parameters:
 a = 111.36476
 b = 504.85801
 c = 44.09281
 d = 0.95813

Bead 2286

Date : Mon Oct 17 13:53:15 PDT 2022
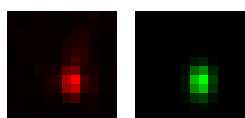Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 101 um (x), -52.5 um (y), 44.5 um (z)
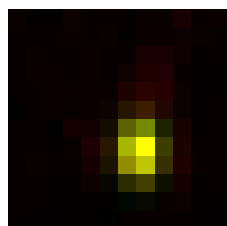Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	389 nm	406 nm	270 nm
max	549 nm	572 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.709		
Theta	89.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 661.567   (brightness)
 B = 125.498   (background)
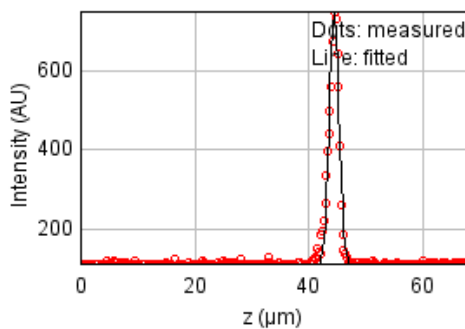 a = 0.885 px
 b = 0.002 px
 c = 0.445 px

xc = 6.691 px
yc = 7.210 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 57835.3301
Standard deviation: 13.72548
R^2: 0.97875
Parameters:
 a = 112.41494
 b = 749.45376
 c = 44.50674
 d = 0.85285

Bead 2287 (Rejected)

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -133 um (x), -66.0 um (y), 41.0 um (z)
Corresponding bead : Not found
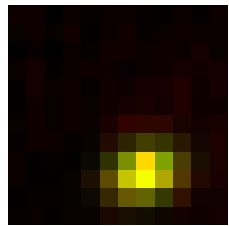Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	483 nm	503 nm	270 nm
max	644 nm	671 nm	270 nm
z	2.86 um	2.87 um	1.3 um
Asymmetry	0.749		
Theta	16.9°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
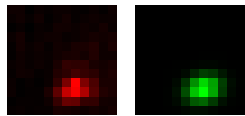
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.937$

Parameters:
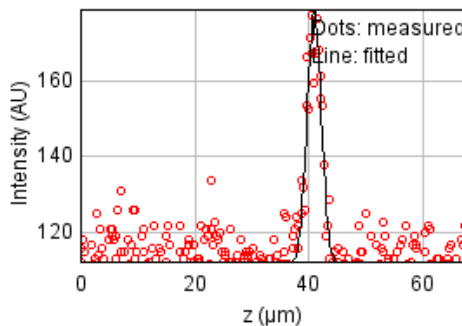 A = 319.727   (brightness)
 B = 120.401   (background)
 a = 0.345 px
 b = 0.070 px
 c = 0.555 px
xc = 6.954 px
yc = 8.658 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12978.0200
Standard deviation: 6.50182
R^2: 0.76292
Parameters:
 a = 111.89653
 b = 179.42775
 c = 41.00838
 d = 1.21371

Bead 2288 (Rejected)

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -7.85 um (x), 85.0 um (y), 40.6 um (z)
Corresponding bead : Not found
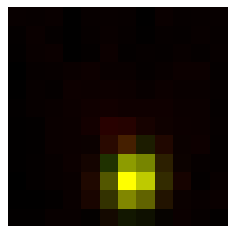Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	447 nm	465 nm	270 nm
max	493 nm	513 nm	270 nm
z	4.01 um	4.03 um	1.3 um
Asymmetry	0.907		
Theta	69.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
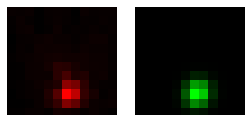
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.956$

Parameters:
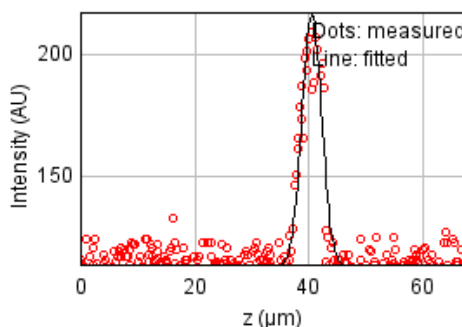 A = 698.545   (brightness)
 B = 131.340   (background)
 a = 0.658 px
 b = 0.040 px
 c = 0.568 px

xc = 6.327 px
yc = 8.914 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21151.6319
Standard deviation: 8.30047
R^2: 0.86604
Parameters:
 a = 113.19886
 b = 217.79655
 c = 40.59601
 d = 1.70315

Bead 2289 (Rejected)

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

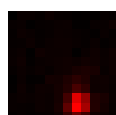Coordinates : -74.8 um (x), 62.4 um (y), 41.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

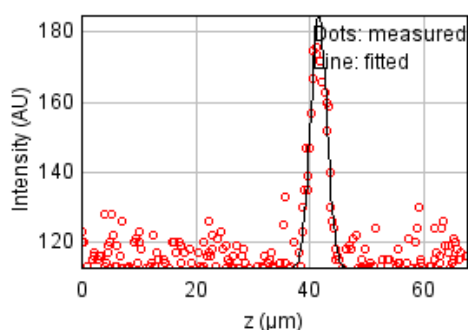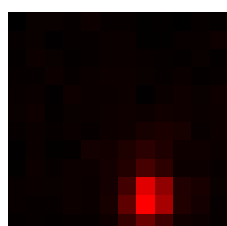| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.32 um	3.33 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

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: 12379.4950
Standard deviation: 6.35013
R^2: 0.81586
Parameters:
 a = 112.47111
 b = 184.67091
 c = 41.62186
 d = 1.40999

Bead 2290

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
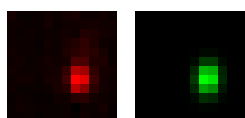Frame size : 12 pixels

Coordinates : -138 um (x), 58.2 um (y), 44.7 um (z)
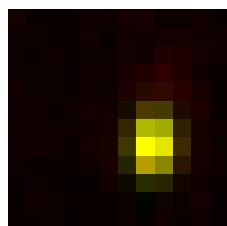Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	574 nm	598 nm	270 nm
z	2.22 um	2.23 um	1.3 um
Asymmetry	0.705		
Theta	86.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.961$

Parameters:
 A = 645.803   (brightness)
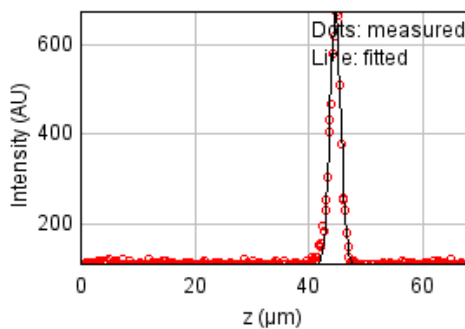 B = 124.576   (background)
 a = 0.816 px
 b = 0.026 px
 c = 0.408 px

xc = 7.436 px
yc = 6.890 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 44533.8508
Standard deviation: 12.04414
R^2: 0.98082
Parameters:
 a = 111.64931
 b = 673.46589
 c = 44.72432
 d = 0.94186

Bead 2291

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
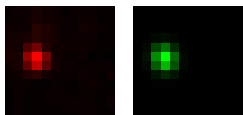Frame size : 12 pixels

Coordinates : -51.9 um (x), 41.0 um (y), 35.0 um (z)
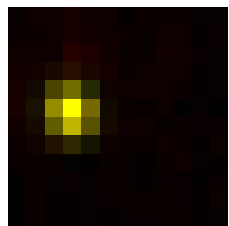Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	438 nm	270 nm
max	480 nm	500 nm	270 nm
z	2.18 um	2.19 um	1.3 um
Asymmetry	0.875		
Theta	-74.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.969$

Parameters:
A = 530.683   (brightness)
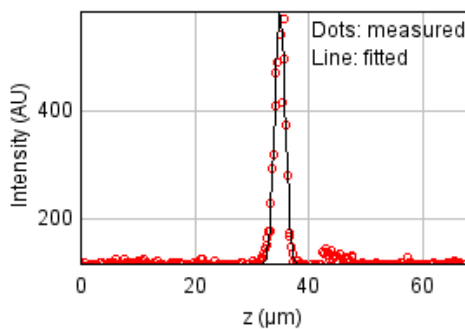B = 118.829   (background)
a = 0.746 px
b = -0.046 px
c = 0.594 px

xc = 2.909 px
yc = 5.206 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 58892.3221
Standard deviation: 13.85033
R^2: 0.96346
Parameters:
a = 115.59528
b = 583.08485
c = 35.00507
d = 0.92682

Bead 2292

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
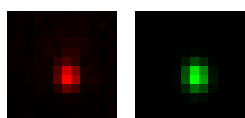Frame size : 12 pixels

Coordinates : -65.7 um (x), 26.4 um (y), 44.5 um (z)
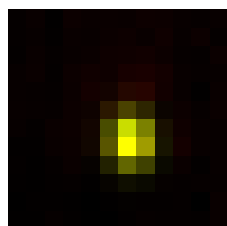Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	503 nm	524 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.815		
Theta	-85.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 691.732   (brightness)
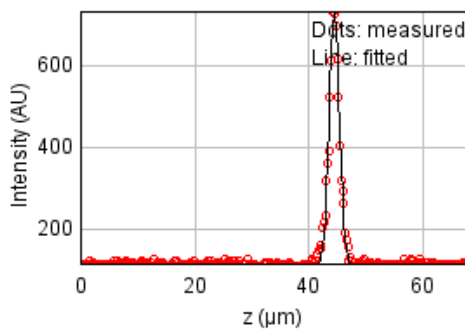B = 126.182   (background)
a = 0.798 px
b = -0.022 px
c = 0.532 px

xc = 6.182 px
yc = 6.644 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 33566.4870
Standard deviation: 10.45644
R^2: 0.98756
Parameters:
a = 114.00007
b = 736.28464
c = 44.53102
d = 0.89617

Bead 2293

Date : Mon Oct 17 13:53:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
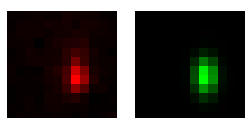Frame size : 12 pixels

Coordinates : 127 um (x), 1.52 um (y), 44.2 um (z)
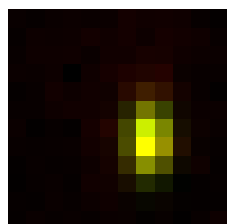Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	644 nm	670 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.602		
Theta	89.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.951$

Parameters:
 A = 447.927   (brightness)
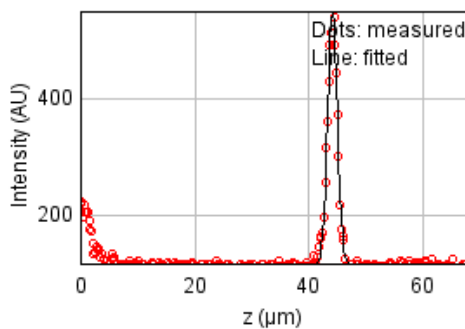 B = 117.324   (background)
 a = 0.893 px
 b = 0.002 px
 c = 0.324 px

xc = 7.178 px
yc = 6.605 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 106543.654
Standard deviation: 18.62922
R^2: 0.92096
Parameters:
 a = 116.11336
 b = 551.06117
 c = 44.20672
 d = 0.85257

Bead 2294

Date : Mon Oct 17 13:53:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
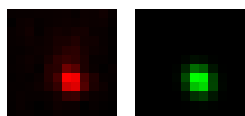Frame size : 12 pixels

Coordinates : 64.4 um (x), -8.54 um (y), 45.1 um (z)
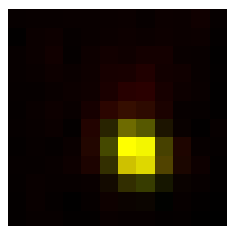Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	439 nm	458 nm	270 nm
max	505 nm	526 nm	270 nm
z	2.04 um	2.05 um	1.3 um
Asymmetry	0.871		
Theta	-57.5°		

XY profile & fitting parameters :

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

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

Parameters:
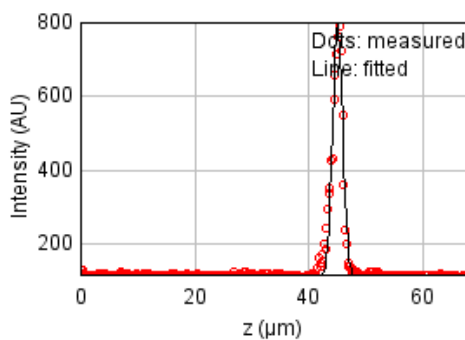 A = 822.192   (brightness)
 B = 127.906   (background)
 a = 0.647 px
 b = -0.076 px
 c = 0.576 px

xc = 6.508 px
yc = 7.324 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 108087.687
Standard deviation: 18.76372
R^2: 0.96664
Parameters:
 a = 114.62967
 b = 800.48612
 c = 45.11213
 d = 0.86558

Bead 2295

Date : Mon Oct 17 13:53:17 PDT 2022
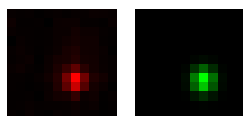Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -90.9 um (x), -18.0 um (y), 44.7 um (z)
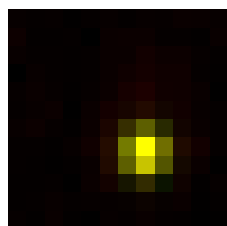Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	413 nm	430 nm	270 nm
max	462 nm	481 nm	270 nm
z	1.91 um	1.92 um	1.3 um
Asymmetry	0.895		
Theta	89.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.966$

Parameters:
A = 564.011 (brightness)
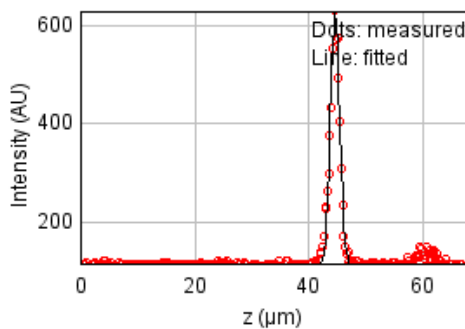B = 120.424 (background)
a = 0.785 px
b = 0.001 px
c = 0.629 px

xc = 6.965 px
yc = 7.287 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 36769.7016
Standard deviation: 10.94399
R^2: 0.97812
Parameters:
 a = 114.65132
 b = 626.79569
 c = 44.66018
 d = 0.81237

Bead 2296

Date : Mon Oct 17 13:53:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
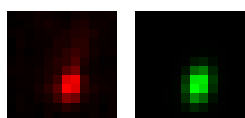Frame size : 12 pixels

Coordinates : 100 um (x), -24.0 um (y), 44.6 um (z)
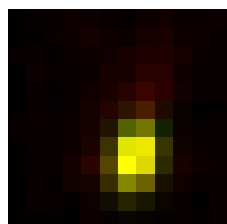Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	420 nm	437 nm	270 nm
max	619 nm	645 nm	270 nm
z	2.56 um	2.57 um	1.3 um
Asymmetry	0.678		
Theta	77.1°		

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 = 0.941

Parameters:
 A = 570.772   (brightness)
 B = 127.432   (background)
 a = 0.741 px
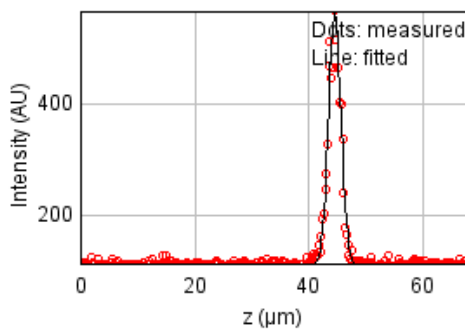 b = 0.089 px
 c = 0.371 px

xc = 6.445 px
yc = 7.540 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 43256.0090
Standard deviation: 11.87009
R^2: 0.97550
Parameters:
 a = 112.24389
 b = 568.76867
 c = 44.59763
 d = 1.08754

Bead 2297 (Rejected)

Date : Mon Oct 17 13:53:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

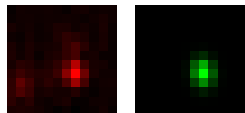Coordinates : 139 um (x), -59.0 um (y), 44.0 um (z)
Corresponding bead : Not found
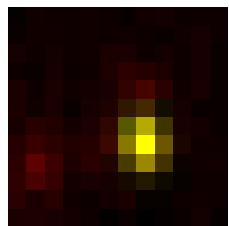Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	380 nm	395 nm	270 nm
max	511 nm	532 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.743		
Theta	-83.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.812$

Parameters:
 A = 326.799   (brightness)
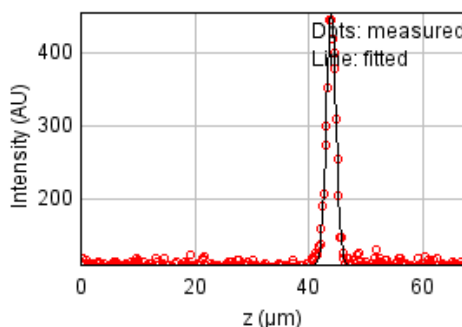 B = 126.273   (background)
 a = 0.927 px
 b = -0.044 px
 c = 0.519 px

xc = 6.902 px
yc = 6.879 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14738.5945
Standard deviation: 6.92881
R^2: 0.98129
Parameters:
 a = 110.46139
 b = 453.58247
 c = 43.96786
 d = 0.85278

Bead 2298

Date : Mon Oct 17 13:53:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
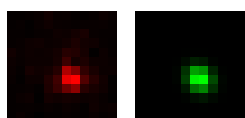Frame size : 12 pixels

Coordinates : -121 um (x), -80.2 um (y), 44.7 um (z)
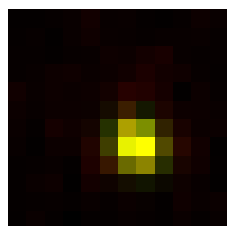Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	494 nm	515 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.873		
Theta	-50.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.955$

Parameters:
A = 465.289   (brightness)
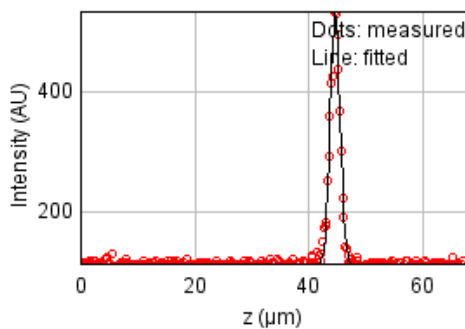B = 120.697   (background)
a = 0.651 px
b = -0.084 px
c = 0.619 px

xc = 6.529 px
yc = 6.906 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17467.1269
Standard deviation: 7.54296
R^2: 0.98543
Parameters:
a = 112.38211
b = 535.27198
c = 44.67532
d = 0.85825

Bead 2299

Date : Mon Oct 17 13:53:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
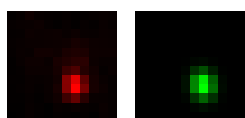Frame size : 12 pixels

Coordinates : -19.2 um (x), 80.3 um (y), 45.1 um (z)
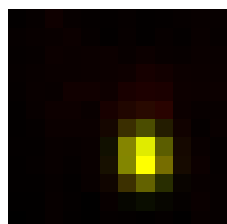Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	422 nm	439 nm	270 nm
max	511 nm	532 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.825		
Theta	-81.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.967$

Parameters:
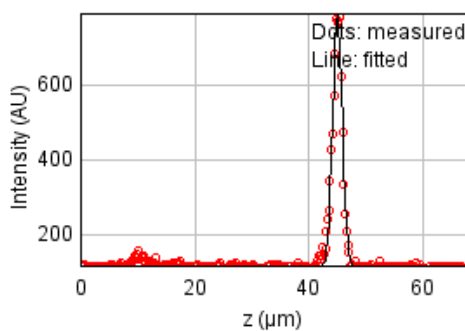A = 786.773   (brightness)
B = 129.693   (background)
a = 0.750 px
b = -0.036 px
c = 0.519 px

xc = 6.909 px
yc = 7.574 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 53278.8061
Standard deviation: 13.17371
R^2: 0.98201
Parameters:
 a = 115.67548
 b = 788.45441
 c = 45.07626
 d = 0.83373

Bead 2300 (Rejected)

Date : Mon Oct 17 13:53:18 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 158 um (x), 72.8 um (y), 43.9 um (z)
Corresponding bead : Not found
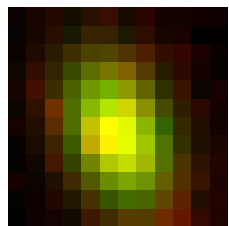Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	913 nm	951 nm	270 nm
max	1.44 um	1.5 um	270 nm
z	1.54 um	1.55 um	1.3 um
Asymmetry	0.633		
Theta	-70.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
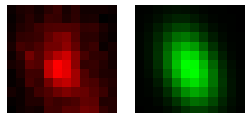
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.875$

Parameters:
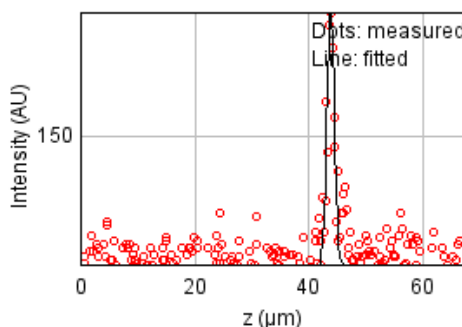A = 164.262   (brightness)
B = 128.346   (background)
a = 0.150 px
b = -0.031 px
c = 0.076 px

xc = 5.530 px
yc = 6.408 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14144.9957
Standard deviation: 6.78785
R^2: 0.69915
Parameters:
a = 109.19072
b = 189.51662
c = 43.87335
d = 0.65477