Bead 2601

Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels
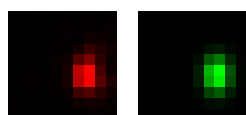
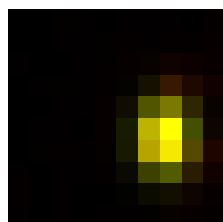Coordinates : 20.2 um (x), -13.1 um (y), 57.6 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	565 nm	584 nm	223 nm
z	1.11 um	1.11 um	885 nm
Asymmetry	0.745		
Theta	89.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.983$

Parameters:
A = 1646.565   (brightness)
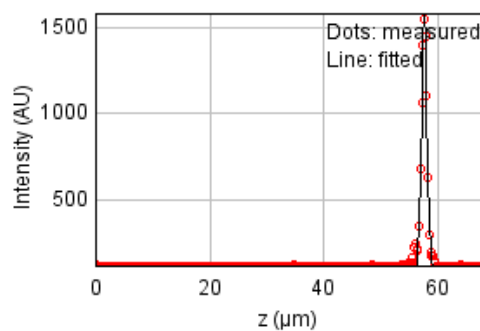B = 126.849   (background)
a = 0.758 px
b = 0.001 px
c = 0.421 px

xc = 6.731 px
yc = 5.389 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 71759.5125
Standard deviation: 15.28870
R^2: 0.99104
Parameters:
 a = 114.92017
 b = 1579.02776
 c = 57.64000
 d = 0.47121

Bead 2602

Date : Mon Oct 17 13:30:02 PDT 2022
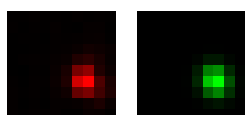Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 74.1 um (x), -49.3 um (y), 57.4 um (z)
Corresponding bead : Not found

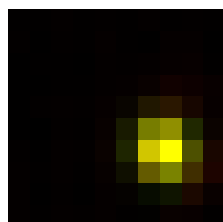| FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	475 nm	491 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.896		
Theta	-63.2°		

XY profile & fitting parameters :

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

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

$R^2 = 0.981$

Parameters:
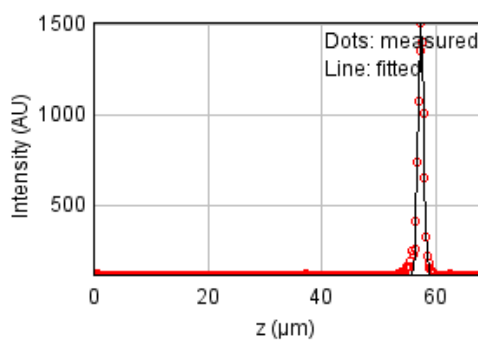A = 1498.866   (brightness)
B = 123.373   (background)
a = 0.711 px
b = -0.059 px
c = 0.624 px

xc = 6.674 px
yc = 5.935 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 63464.3339
Standard deviation: 14.37791
R^2: 0.99171
Parameters:
a = 114.72124
b = 1508.56065
c = 57.39937
d = 0.49788

Bead 2603 (Rejected)

Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -146 um (x), -67.4 um (y), 56.8 um (z)
Corresponding bead : Not found
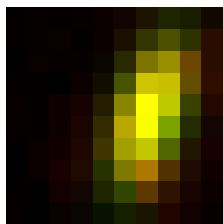Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	531 nm	549 nm	223 nm
max	1.19 um	1.23 um	223 nm
z	1.13 um	1.13 um	885 nm
Asymmetry	0.446		
Theta	73.0°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
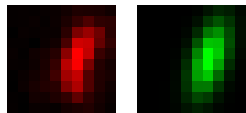
Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.965$

Parameters:
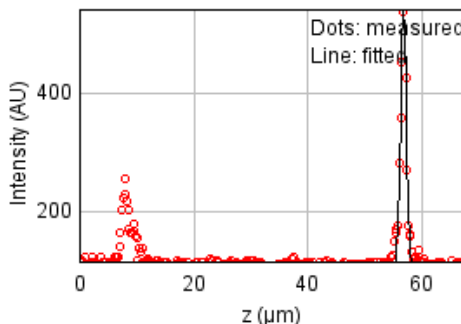 A = 530.082   (brightness)
 B = 125.554   (background)
 a = 0.444 px
 b = 0.107 px
 c = 0.128 px

xc = 6.133 px
yc = 4.408 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 125503.823
Standard deviation: 20.21898
R^2: 0.84472
Parameters:
 a = 115.72847
 b = 541.92176
 c = 56.80141
 d = 0.47851

Bead 2604

Date : Mon Oct 17 13:30:02 PDT 2022
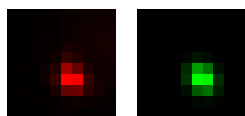Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 110 um (x), -80.5 um (y), 57.4 um (z)
Corresponding bead : Not found

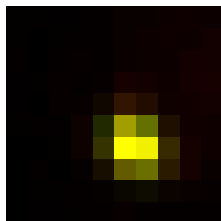| FWHM	Non corrected	Corrected	Theoretical
min	378 nm	391 nm	223 nm
max	451 nm	466 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.838		
Theta	-53.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1637.693   (brightness)
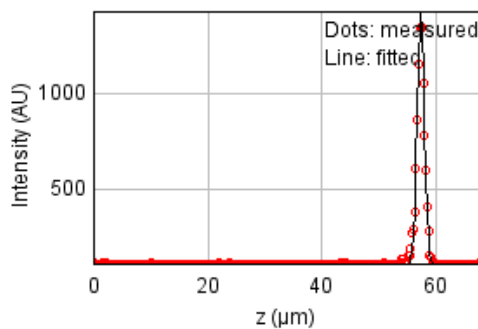 B = 143.479   (background)
 a = 0.839 px
 b = -0.134 px
 c = 0.760 px

xc = 5.446 px
yc = 5.897 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 49824.2878
Standard deviation: 12.73947
R^2: 0.99419
Parameters:
 a = 112.53373
 b = 1429.48706
 c = 57.39786
 d = 0.63129

Bead 2605

Date : Mon Oct 17 13:30:02 PDT 2022
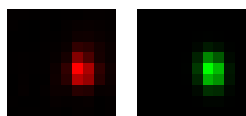Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -126 um (x), -80.1 um (y), 57.4 um (z)
Corresponding bead : Not found

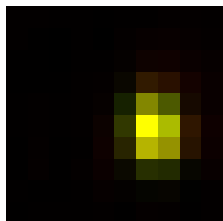| FWHM	Non corrected	Corrected	Theoretical
min	382 nm	395 nm	223 nm
max	523 nm	541 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.73		
Theta	-83.0°		

XY profile & fitting parameters :

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

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

Parameters:
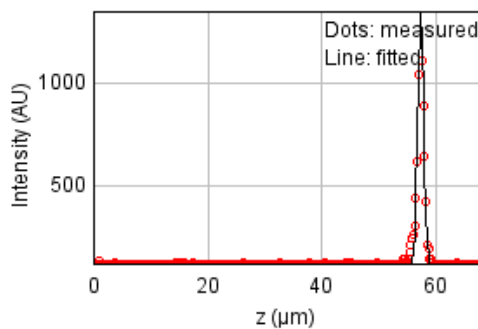 A = 1378.341   (brightness)
 B = 126.402   (background)
 a = 0.914 px
 b = -0.052 px
 c = 0.497 px

xc = 6.339 px
yc = 5.182 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 87115.7257
Standard deviation: 16.84531
R^2: 0.98650
Parameters:
 a = 113.16239
 b = 1358.29585
 c = 57.37584
 d = 0.52387

Bead 2606

Date : Mon Oct 17 13:30:03 PDT 2022
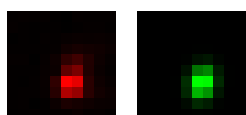Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 15.1 um (x), -83.2 um (y), 57.3 um (z)
Corresponding bead : Not found

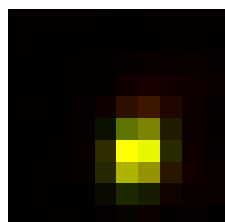| FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	493 nm	510 nm	223 nm
z	1.52 um	1.53 um	885 nm
Asymmetry	0.781		
Theta	75.5°		

XY profile & fitting parameters :

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

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

Parameters:
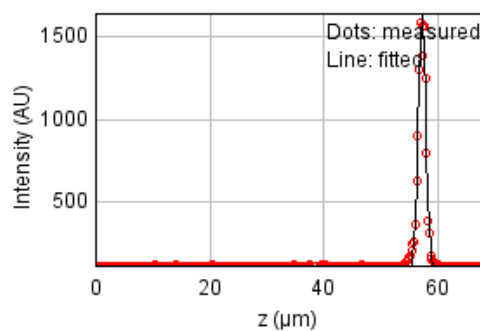 A = 1492.487   (brightness)
 B = 128.794   (background)
 a = 0.882 px
 b = 0.085 px
 c = 0.574 px

xc = 5.469 px
yc = 6.126 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 171642.415
Standard deviation: 23.64521
R^2: 0.98574
Parameters:
 a = 114.90979
 b = 1650.30276
 c = 57.27271
 d = 0.64673

Bead 2607

Date : Mon Oct 17 13:30:03 PDT 2022
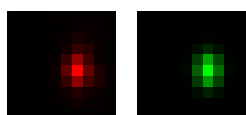Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -5.05 um (x), -93.9 um (y), 57.2 um (z)
Corresponding bead : Not found

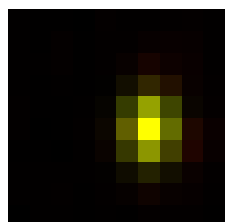| FWHM	Non corrected	Corrected	Theoretical
min	380 nm	393 nm	223 nm
max	522 nm	540 nm	223 nm
z	1.18 um	1.18 um	885 nm
Asymmetry	0.729		
Theta	89.8°		

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
    $R^2 = 0.981$

Parameters:
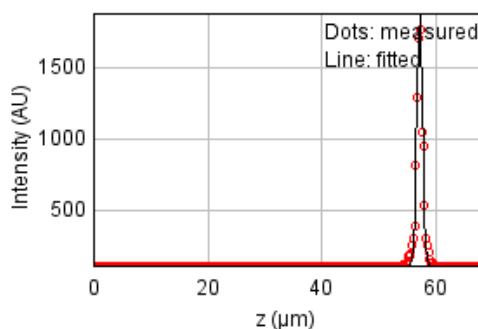 A = 1756.317 (brightness)
 B = 132.684 (background)
 a = 0.927 px
 b = 0.002 px
 c = 0.493 px

xc = 6.034 px
yc = 4.961 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 162563.362
Standard deviation: 23.01135
R^2: 0.98686
Parameters:
 a = 115.18359
 b = 1877.87616
 c = 57.20129
 d = 0.50068

Bead 2608

Date : Mon Oct 17 13:30:03 PDT 2022
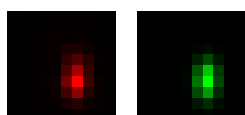Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -124 um (x), 88.3 um (y), 57.7 um (z)
Corresponding bead : Not found

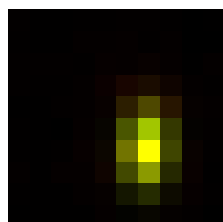| FWHM	Non corrected	Corrected	Theoretical
min	357 nm	370 nm	223 nm
max	595 nm	615 nm	223 nm
z	1.15 um	1.16 um	885 nm
Asymmetry	0.601		
Theta	88.1°		

XY profile & fitting parameters :

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

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

  Parameters:
  A = 1488.110   (brightness)
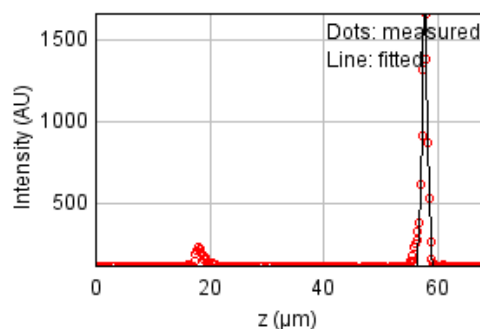 B = 129.733   (background)
  a = 1.050 px
  b = 0.022 px
  c = 0.380 px

  xc = 5.879 px
  yc = 5.840 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 195119.254
Standard deviation: 25.21047
R^2: 0.97974
Parameters:
 a = 118.03934
 b = 1683.99145
 c = 57.73499
 d = 0.49007

Bead 2609

Date : Mon Oct 17 13:30:03 PDT 2022
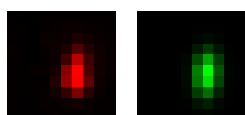Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -117 um (x), 75.0 um (y), 57.6 um (z)
Corresponding bead : Not found

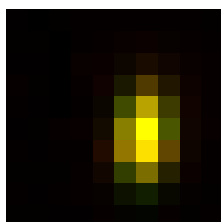| FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	680 nm	703 nm	223 nm
z	1.22 um	1.23 um	885 nm
Asymmetry	0.567		
Theta	86.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.980$

Parameters:
A = 1025.808   (brightness)
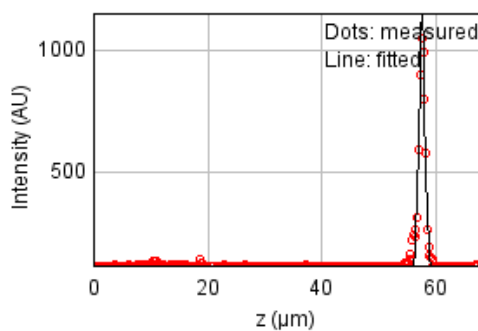B = 123.137   (background)
a = 0.902 px
b = 0.036 px
c = 0.292 px

xc = 5.882 px
yc = 5.288 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 100623.360
Standard deviation: 18.10424
R^2: 0.97748
Parameters:
a = 115.88751
b = 1152.53405
c = 57.59261
d = 0.51846

Bead 2610 (Rejected)

Date : Mon Oct 17 13:30:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -154 um (x), 65.3 um (y), 57.1 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

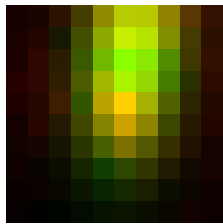| FWHM	Non corrected	Corrected	Theoretical
min	802 nm	829 nm	223 nm
max	1.63 um	1.69 um	223 nm
z	3.3 um	3.31 um	885 nm
Asymmetry	0.492		
Theta	83.3°		

XY profile & fitting parameters :

(red : the orignal data, green : the fit, yellow : the two merged)
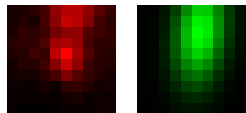
Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.887$

Parameters:
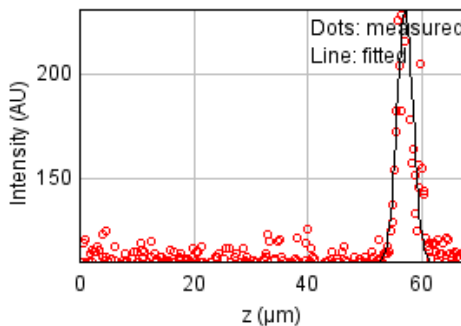 A = 311.224   (brightness)
 B = 126.207   (background)
 a = 0.207 px
 b = 0.018 px
 c = 0.053 px

xc = 5.276 px
yc = 1.959 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 26552.3416
Standard deviation: 9.29998
R^2: 0.84968
Parameters:
 a = 110.76497
 b = 230.58548
 c = 57.10343
 d = 1.40007

Bead 2611

Date : Mon Oct 17 13:30:03 PDT 2022
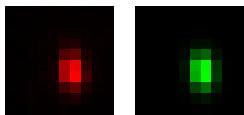Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -80.1 um (x), 24.3 um (y), 57.2 um (z)
Corresponding bead : Not found

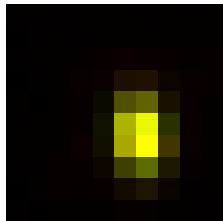| FWHM	Non corrected	Corrected	Theoretical
min	369 nm	381 nm	223 nm
max	551 nm	569 nm	223 nm
z	1.08 um	1.09 um	885 nm
Asymmetry	0.669		
Theta	-84.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.993$

Parameters:
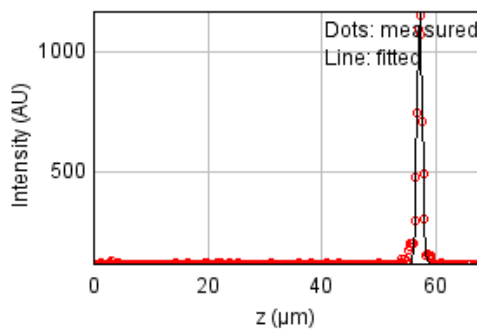A = 1327.888   (brightness)
B = 123.024   (background)
a = 0.983 px
b = -0.051 px
c = 0.447 px

xc = 5.686 px
yc = 5.501 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 50512.7695
Standard deviation: 12.82719
R^2: 0.98747
Parameters:
a = 115.42010
b = 1163.95978
c = 57.19306
d = 0.46034

Bead 2612

Date : Mon Oct 17 13:30:03 PDT 2022
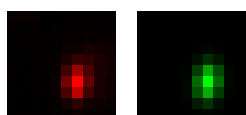Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

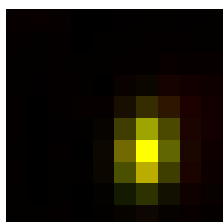Coordinates : 147 um (x), 23.8 um (y), 57.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	385 nm	398 nm	223 nm
max	569 nm	588 nm	223 nm
z	1.29 um	1.3 um	885 nm
Asymmetry	0.676		
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 = 1108.308   (brightness)
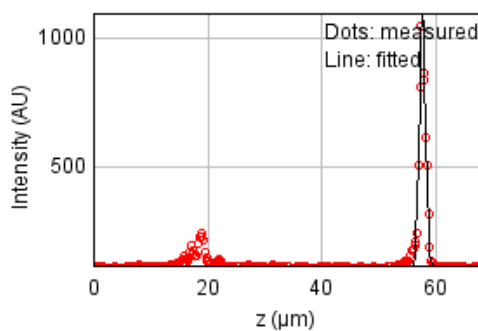B = 122.284   (background)
a = 0.902 px
b = 0.053 px
c = 0.420 px

xc = 5.991 px
yc = 6.032 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 232335.264
Standard deviation: 27.50986
R^2: 0.94625
Parameters:
a = 118.19839
b = 1093.20968
c = 57.67880
d = 0.54981

Bead 2613

Date : Mon Oct 17 13:30:03 PDT 2022
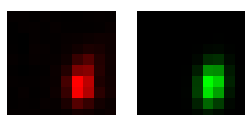Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 42.5 um (x), -5.77 um (y), 57.5 um (z)
Corresponding bead : Not found

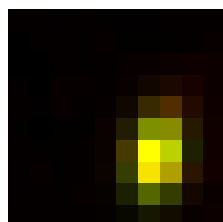| FWHM	Non corrected	Corrected	Theoretical
min	398 nm	412 nm	223 nm
max	636 nm	658 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.626		
Theta	80.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.973$

Parameters:
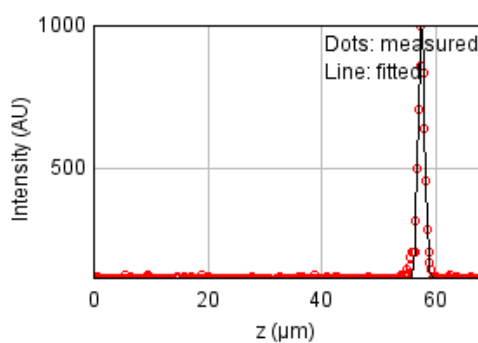 A = 1001.271   (brightness)
 B = 121.574   (background)
 a = 0.834 px
 b = 0.080 px
 c = 0.344 px

 xc = 6.359 px
 yc = 6.246 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 32400.3879
Standard deviation: 10.27320
R^2: 0.99111
Parameters:
 a = 114.23278
 b = 1011.16831
 c = 57.50529
 d = 0.57472

Bead 2614

Date : Mon Oct 17 13:30:03 PDT 2022
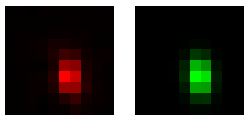Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -75.8 um (x), -22.2 um (y), 57.4 um (z)
Corresponding bead : Not found

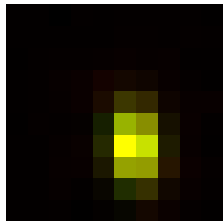| FWHM	Non corrected	Corrected	Theoretical
min	368 nm	380 nm	223 nm
max	575 nm	595 nm	223 nm
z	1.13 um	1.14 um	885 nm
Asymmetry	0.64		
Theta	-85.2°		

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 = 0.987

Parameters:
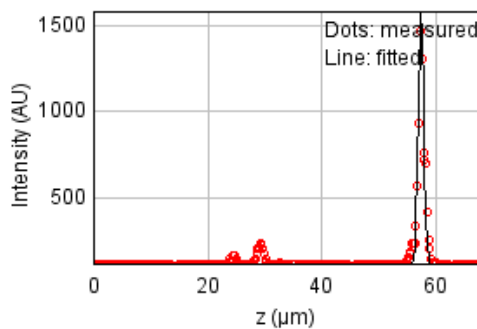 A = 1978.406   (brightness)
 B = 131.371   (background)
 a = 0.986 px
 b = -0.049 px
 c = 0.409 px

xc = 5.434 px
yc = 5.991 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 557052.343
Standard deviation: 42.59698
R^2: 0.93486
Parameters:
 a = 120.59630
 b = 1576.05192
 c = 57.43151
 d = 0.48051

Bead 2615

Date : Mon Oct 17 13:30:03 PDT 2022
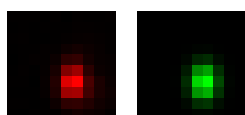Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 47.9 um (x), -52.8 um (y), 58.0 um (z)
Corresponding bead : Not found

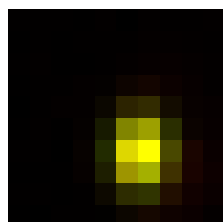| FWHM	Non corrected	Corrected	Theoretical
min	432 nm	447 nm	223 nm
max	563 nm	582 nm	223 nm
z	951 nm	955 nm	885 nm
Asymmetry	0.768		
Theta	89.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.986$

Parameters:
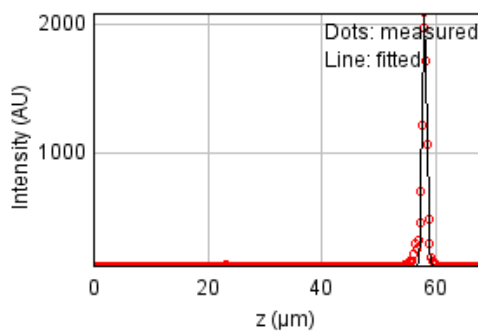 A = 2170.894   (brightness)
 B = 134.680   (background)
 a = 0.718 px
 b = 0.005 px
 c = 0.423 px

xc = 5.620 px
yc = 6.060 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 182484.822
Standard deviation: 24.38059
R^2: 0.98559
Parameters:
 a = 116.92152
 b = 2096.59175
 c = 58.03606
 d = 0.40385

Bead 2616

Date : Mon Oct 17 13:30:03 PDT 2022
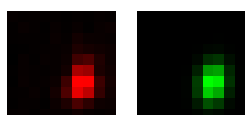Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -136 um (x), -63.4 um (y), 57.6 um (z)
Corresponding bead : Not found

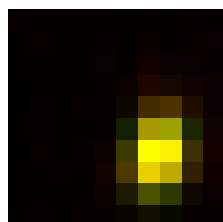| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	613 nm	634 nm	223 nm
z	1.47 um	1.47 um	885 nm
Asymmetry	0.683		
Theta	80.6°		

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 = 0.982

Parameters:
 A = 999.255 (brightness)
 B = 120.699 (background)
 a = 0.756 px
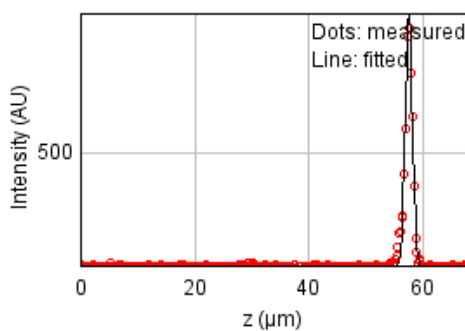 b = 0.066 px
 c = 0.368 px

 xc = 6.443 px
 yc = 6.133 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 86616.3220
Standard deviation: 16.79696
R^2: 0.97706
Parameters:
 a = 112.36727
 b = 984.35393
 c = 57.57265
 d = 0.62242

Bead 2617

Date : Mon Oct 17 13:30:03 PDT 2022
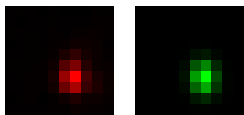Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 77.8 um (x), -65.6 um (y), 57.7 um (z)
Corresponding bead : Not found

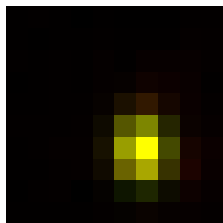| FWHM	Non corrected	Corrected	Theoretical
min	392 nm	406 nm	223 nm
max	502 nm	519 nm	223 nm
z	1.13 um	1.14 um	885 nm
Asymmetry	0.782		
Theta	-86.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.983$

Parameters:
A = 1880.235   (brightness)
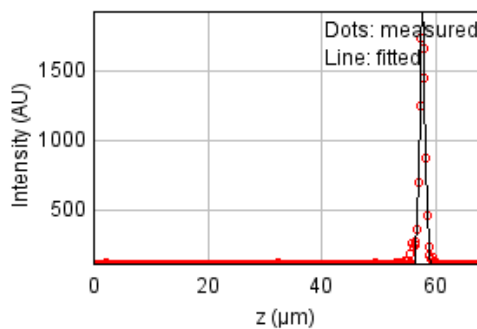B = 130.102   (background)
a = 0.870 px
b = -0.021 px
c = 0.535 px

xc = 5.780 px
yc = 6.095 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 114581.679
Standard deviation: 19.31917
R^2: 0.99084
Parameters:
a = 115.40293
b = 1928.44570
c = 57.66778
d = 0.48021

Bead 2618

Date : Mon Oct 17 13:30:03 PDT 2022
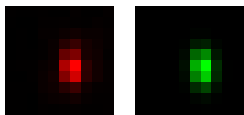Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -119 um (x), -67.8 um (y), 57.9 um (z)
Corresponding bead : Not found

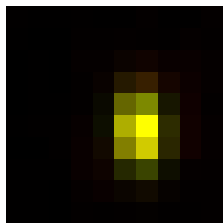| FWHM	Non corrected	Corrected	Theoretical
min	353 nm	365 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.628		
Theta	-86.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.986$

Parameters:
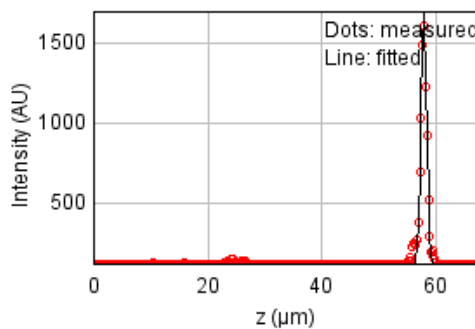 A = 1830.468   (brightness)
 B = 130.315   (background)
 a = 1.073 px
 b = -0.041 px
 c = 0.427 px

xc = 5.686 px
yc = 5.197 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 108179.189
Standard deviation: 18.77166
R^2: 0.98922
Parameters:
 a = 115.89709
 b = 1699.64368
 c = 57.91452
 d = 0.50456

Bead 2619

Date : Mon Oct 17 13:30:03 PDT 2022
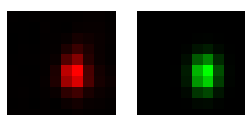Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -18.1 um (x), -85.2 um (y), 57.6 um (z)
Corresponding bead : Not found

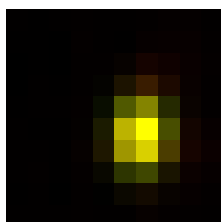| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	555 nm	574 nm	223 nm
z	1.1 um	1.1 um	885 nm
Asymmetry	0.749		
Theta	87.4°		

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 = 0.985

Parameters:
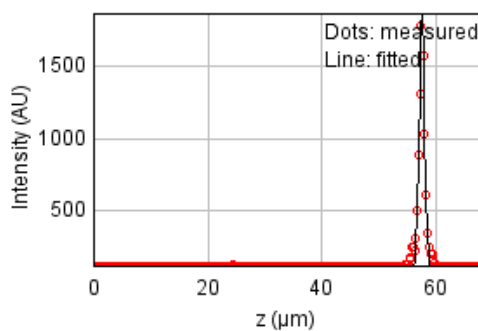A = 2001.128   (brightness)
B = 130.725   (background)
a = 0.775 px
b = 0.015 px
c = 0.436 px

xc = 5.725 px
yc = 5.272 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 117140.389
Standard deviation: 19.53368
R^2: 0.98978
Parameters:
a = 116.08017
b = 1877.27349
c = 57.57568
d = 0.46517

Bead 2620

Date : Mon Oct 17 13:30:03 PDT 2022
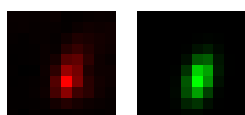Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 73.1 um (x), 56.4 um (y), 57.5 um (z)
Corresponding bead : Not found

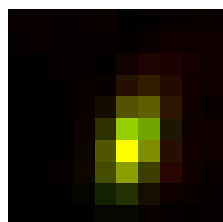| FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	683 nm	707 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.566		
Theta	72.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.939$

Parameters:
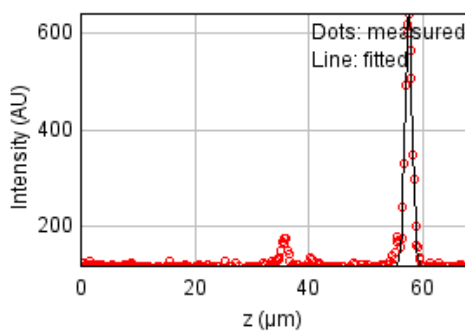A = 794.298 (brightness)
B = 132.873 (background)
a = 0.843 px
b = 0.175 px
c = 0.343 px

xc = 5.211 px
yc = 5.702 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 42891.7666
Standard deviation: 11.82001
R^2: 0.96976
Parameters:
a = 117.04553
b = 646.13712
c = 57.54722
d = 0.63068

Bead 2621

Date : Mon Oct 17 13:30:03 PDT 2022
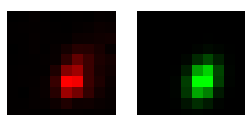Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 137 um (x), 50.8 um (y), 58.1 um (z)
Corresponding bead : Not found

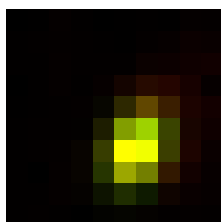| FWHM	Non corrected	Corrected	Theoretical
min	417 nm	431 nm	223 nm
max	589 nm	609 nm	223 nm
z	1.6 um	1.61 um	885 nm
Asymmetry	0.709		
Theta	66.7°		

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
  $R^2 = 0.954$

Parameters:
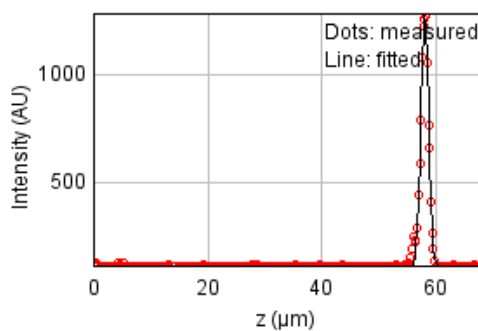 A = 1231.224   (brightness)
 B = 128.480   (background)
 a = 0.711 px
 b = 0.139 px
 c = 0.447 px

 xc = 5.533 px
 yc = 5.864 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 61471.3081
Standard deviation: 14.15035
R^2: 0.99158
Parameters:
 a = 112.08321
 b = 1283.20227
 c = 58.07702
 d = 0.67969

Bead 2622

Date : Mon Oct 17 13:30:03 PDT 2022
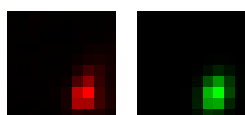Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 86.4 um (x), 33.0 um (y), 58.2 um (z)
Corresponding bead : Not found

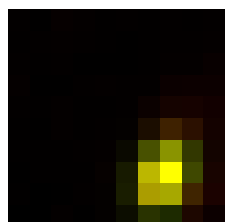| FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	556 nm	575 nm	223 nm
z	1.04 um	1.04 um	885 nm
Asymmetry	0.713		
Theta	69.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.968$

Parameters:
A = 1559.254   (brightness)
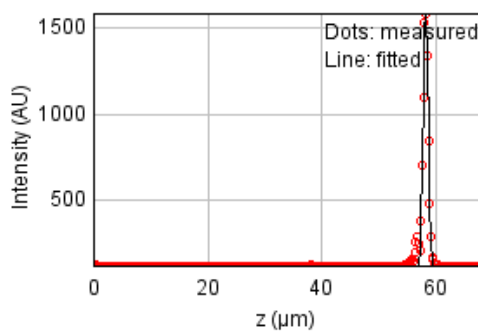B = 132.905   (background)
a = 0.804 px
b = 0.136 px
c = 0.483 px

xc = 6.684 px
yc = 7.152 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 93764.0389
Standard deviation: 17.47628
R^2: 0.98787
Parameters:
a = 115.46021
b = 1598.60547
c = 58.23622
d = 0.44088

Bead 2623

Date : Mon Oct 17 13:30:03 PDT 2022
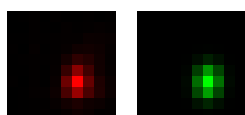Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 10.6 um (x), 9.67 um (y), 58.1 um (z)
Corresponding bead : Not found

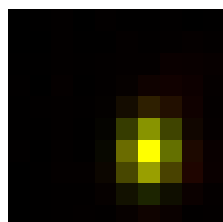| FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	513 nm	531 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.777		
Theta	85.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.978$

Parameters:
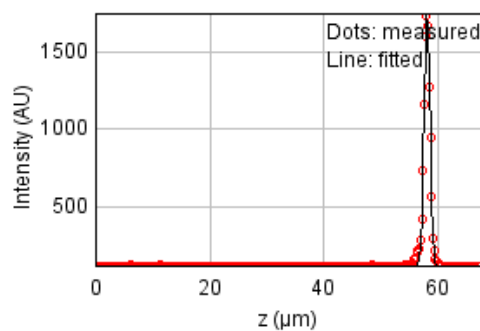 A = 1547.029   (brightness)
 B = 130.094   (background)
 a = 0.843 px
 b = 0.024 px
 c = 0.511 px

 xc = 6.010 px
 yc = 6.035 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 54656.3565
Standard deviation: 13.34293
R^2: 0.99501
Parameters:
 a = 115.98900
 b = 1751.14146
 c = 58.12100
 d = 0.52056

Bead 2624

Date : Mon Oct 17 13:30:03 PDT 2022
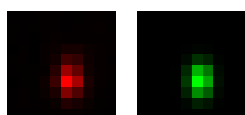Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -95.9 um (x), 6.41 um (y), 57.7 um (z)
Corresponding bead : Not found

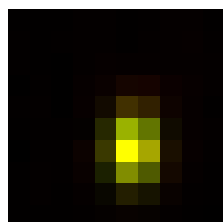| FWHM	Non corrected	Corrected	Theoretical
min	373 nm	386 nm	223 nm
max	530 nm	548 nm	223 nm
z	1.2 um	1.21 um	885 nm
Asymmetry	0.704		
Theta	89.4°		

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 = 0.984

Parameters:
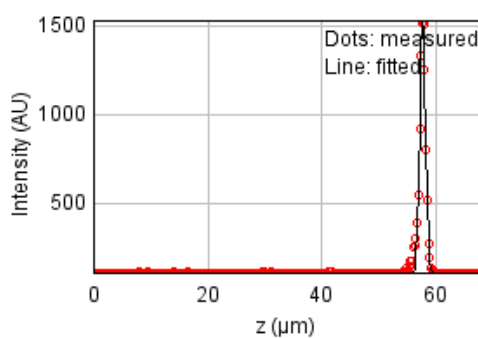A = 1434.137   (brightness)
B = 123.634   (background)
a = 0.964 px
b = 0.005 px
c = 0.478 px

xc = 5.275 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: 82017.3668
Standard deviation: 16.34495
R^2: 0.99006
Parameters:
a = 115.17773
b = 1542.14059
c = 57.71637
d = 0.51163

Bead 2625

Date : Mon Oct 17 13:30:03 PDT 2022
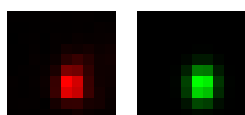Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 126 um (x), -1.38 um (y), 58.2 um (z)
Corresponding bead : Not found

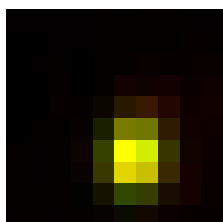| FWHM	Non corrected	Corrected	Theoretical
min	432 nm	446 nm	223 nm
max	542 nm	560 nm	223 nm
z	1.36 um	1.37 um	885 nm
Asymmetry	0.796		
Theta	86.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.973$

Parameters:
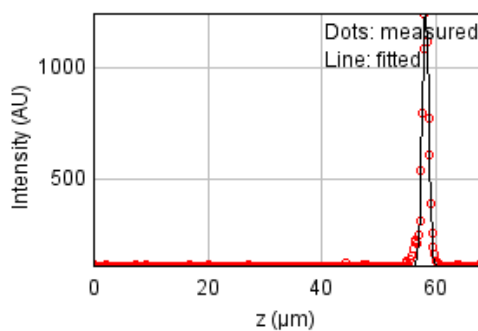 A = 1317.982   (brightness)
 B = 128.074   (background)
 a = 0.719 px
 b = 0.014 px
 c = 0.457 px

xc = 5.445 px
yc = 6.283 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 63955.8078
Standard deviation: 14.43347
R^2: 0.98933
Parameters:
 a = 113.52853
 b = 1259.57898
 c = 58.20532
 d = 0.57783

Bead 2626

Date : Mon Oct 17 13:30:03 PDT 2022
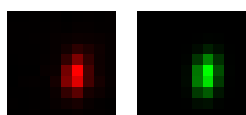Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -42.3 um (x), -23.2 um (y), 58.0 um (z)
Corresponding bead : Not found

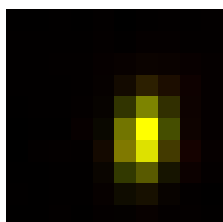| FWHM	Non corrected	Corrected	Theoretical
min	367 nm	379 nm	223 nm
max	592 nm	612 nm	223 nm
z	1.08 um	1.08 um	885 nm
Asymmetry	0.62		
Theta	82.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   R^2 = 0.990

Parameters:
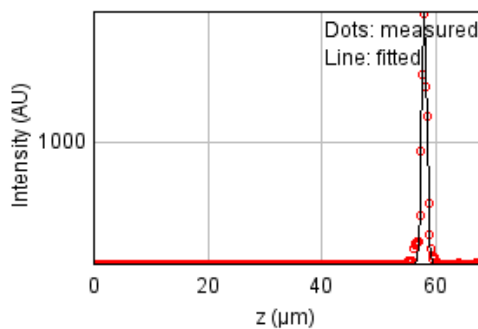 A = 1983.810   (brightness)
 B = 131.114   (background)
 a = 0.985 px
 b = 0.080 px
 c = 0.394 px

xc = 5.866 px
yc = 5.364 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 165270.724
Standard deviation: 23.20218
R^2: 0.98686
Parameters:
 a = 115.60128
 b = 1972.24725
 c = 57.99099
 d = 0.45782

Bead 2627

Date : Mon Oct 17 13:30:03 PDT 2022
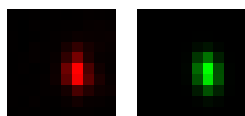Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -33.2 um (x), -39.9 um (y), 57.8 um (z)
Corresponding bead : Not found

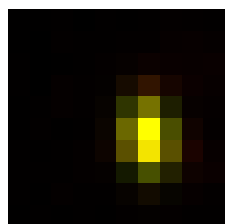| FWHM	Non corrected	Corrected	Theoretical
min	357 nm	369 nm	223 nm
max	542 nm	561 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.657		
Theta	-83.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.984$

Parameters:
A = 1932.868   (brightness)
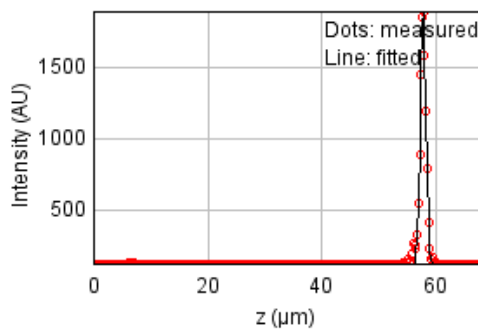B = 132.140   (background)
a = 1.048 px
b = -0.069 px
c = 0.464 px

xc = 5.956 px
yc = 5.369 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 79829.4749
Standard deviation: 16.12547
R^2: 0.99368
Parameters:
 a = 115.70876
 b = 1907.45830
 c = 57.80535
 d = 0.49840

Bead 2628

Date : Mon Oct 17 13:30:03 PDT 2022
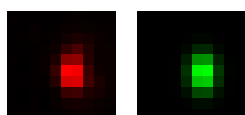Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 74.3 um (x), -72.9 um (y), 57.9 um (z)
Corresponding bead : Not found

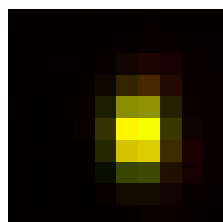| FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	585 nm	605 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.708		
Theta	-89.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1551.055   (brightness)
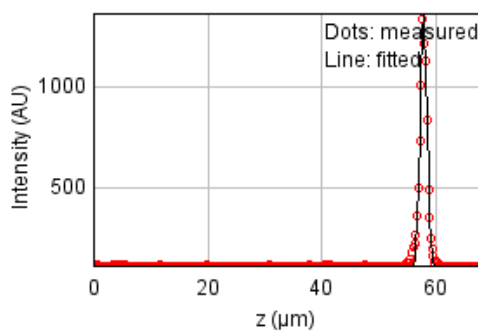 B = 127.370   (background)
 a = 0.781 px
 b = -0.005 px
 c = 0.392 px

xc = 5.528 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: 59695.2932
Standard deviation: 13.94443
R^2: 0.99194
Parameters:
 a = 114.56217
 b = 1360.87241
 c = 57.87521
 d = 0.60611

Bead 2629

Date : Mon Oct 17 13:30:03 PDT 2022
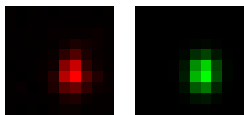Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -15.9 um (x), -78.7 um (y), 57.7 um (z)
Corresponding bead : Not found

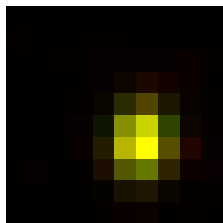| FWHM	Non corrected	Corrected	Theoretical
min	419 nm	434 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.17 um	1.18 um	885 nm
Asymmetry	0.789		
Theta	85.9°		

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 = 0.983

Parameters:
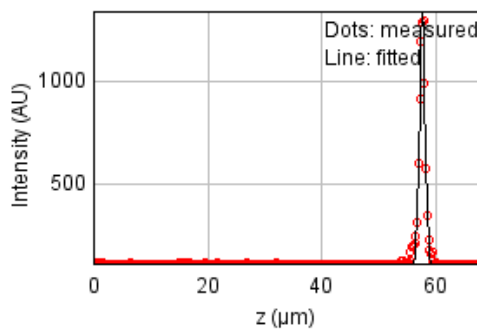 A = 1247.081   (brightness)
 B = 124.157   (background)
 a = 0.762 px
 b = 0.021 px
 c = 0.476 px

xc = 5.734 px
yc = 5.714 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 57901.2904
Standard deviation: 13.73330
R^2: 0.99021
Parameters:
 a = 115.26986
 b = 1339.90814
 c = 57.65410
 d = 0.49787

Bead 2630

Date : Mon Oct 17 13:30:03 PDT 2022
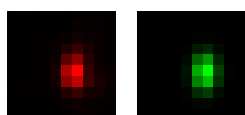Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 49.2 um (x), -90.9 um (y), 57.9 um (z)
Corresponding bead : Not found

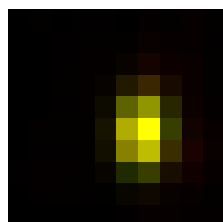| FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	567 nm	586 nm	223 nm
z	1.09 um	1.09 um	885 nm
Asymmetry	0.683		
Theta	89.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.986$

Parameters:
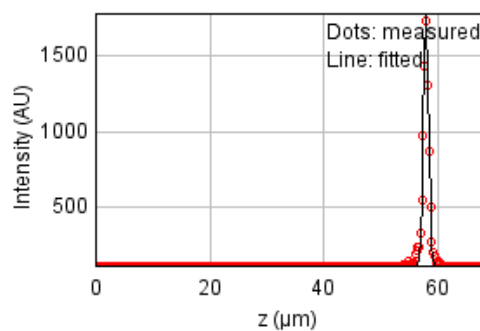 A = 1838.372   (brightness)
 B = 133.652   (background)
 a = 0.897 px
 b = 0.007 px
 c = 0.418 px

xc = 5.721 px
yc = 5.143 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 79416.4566
Standard deviation: 16.08370
R^2: 0.99239
Parameters:
 a = 115.93101
 b = 1803.91657
 c = 57.94134
 d = 0.46241

Bead 2631

Date : Mon Oct 17 13:30:03 PDT 2022
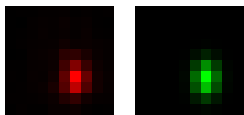Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -140 um (x), 91.9 um (y), 58.1 um (z)
Corresponding bead : Not found

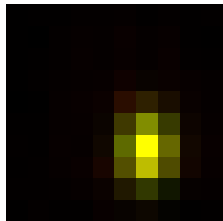| FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	546 nm	565 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.709		
Theta	89.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.984$

Parameters:
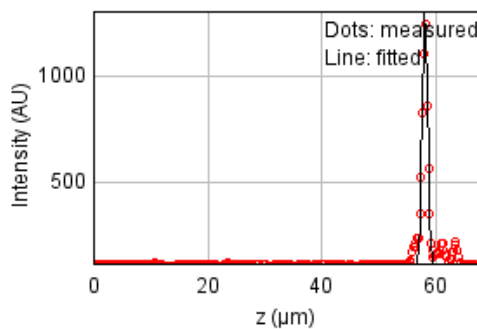A = 1220.816   (brightness)
B = 126.638   (background)
a = 0.896 px
b = 0.006 px
c = 0.450 px

xc = 5.993 px
yc = 6.161 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 164758.039
Standard deviation: 23.16616
R^2: 0.96963
Parameters:
a = 117.49251
b = 1301.79995
c = 58.09940
d = 0.47743

Bead 2632

Date : Mon Oct 17 13:30:03 PDT 2022
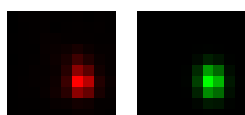Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -154 um (x), 65.1 um (y), 58.5 um (z)
Corresponding bead : Not found

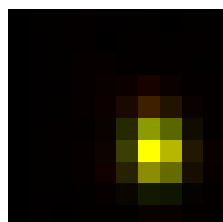| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	494 nm	510 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.796		
Theta	-84.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.981$

Parameters:
A = 2346.122   (brightness)
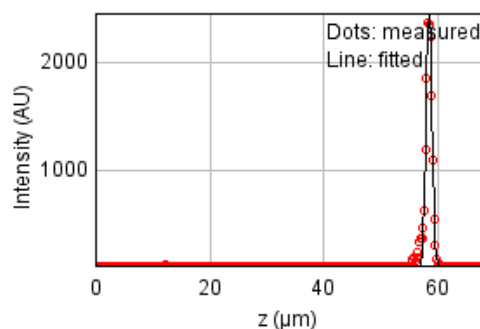B = 135.209   (background)
a = 0.866 px
b = -0.032 px
c = 0.554 px

xc = 6.304 px
yc = 5.973 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 218564.860
Standard deviation: 26.68216
R^2: 0.99038
Parameters:
a = 113.94723
b = 2455.92256
c = 58.48718
d = 0.52336

Bead 2633

Date : Mon Oct 17 13:30:03 PDT 2022
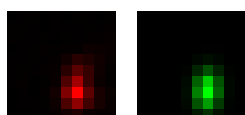Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -13.2 um (x), 60.1 um (y), 58.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	610 nm	631 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.659		
Theta	87.5°		

XY profile & fitting parameters :

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

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

Parameters:
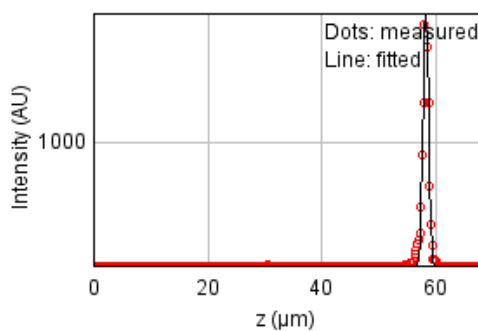A = 1700.225   (brightness)
B = 134.684   (background)
a = 0.828 px
b = 0.020 px
c = 0.361 px

xc = 5.926 px
yc = 6.829 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 111498.413
Standard deviation: 19.05747
R^2: 0.99137
Parameters:
a = 115.73368
b = 1936.21792
c = 58.26452
d = 0.49262

Bead 2634

Date : Mon Oct 17 13:30:03 PDT 2022
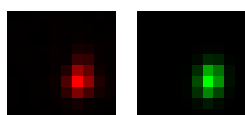Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -99.8 um (x), 29.5 um (y), 58.3 um (z)
Corresponding bead : Not found

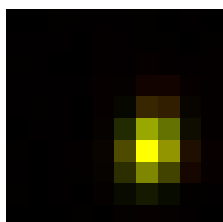| FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	511 nm	528 nm	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.756		
Theta	78.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.985$

Parameters:
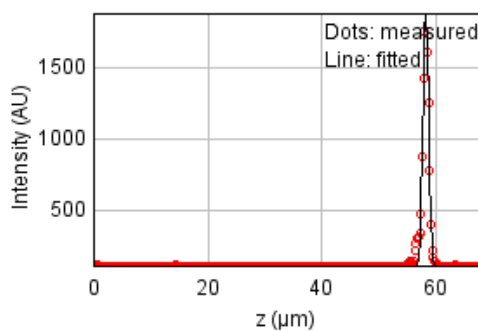 A = 1791.755   (brightness)
 B = 123.110   (background)
 a = 0.885 px
 b = 0.077 px
 c = 0.531 px

xc = 6.207 px
yc = 5.866 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 125174.062
Standard deviation: 20.19240
R^2: 0.98988
Parameters:
 a = 114.70391
 b = 1876.93194
 c = 58.25999
 d = 0.50269

Bead 2635

Date : Mon Oct 17 13:30:03 PDT 2022
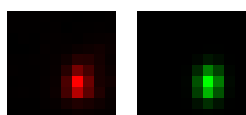Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

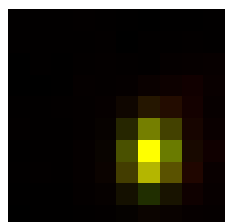Coordinates : 100 um (x), -7.08 um (y), 58.0 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	376 nm	389 nm	223 nm
max	509 nm	527 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.739		
Theta	85.6°		

XY profile & fitting parameters :

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

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

Parameters:
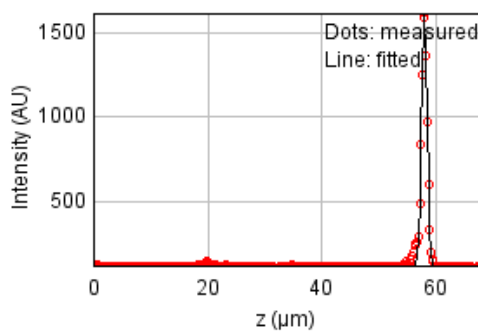 A = 1479.824   (brightness)
 B = 131.287   (background)
 a = 0.944 px
 b = 0.033 px
 c = 0.520 px

xc = 6.106 px
yc = 6.166 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 75395.5293
Standard deviation: 15.67125
R^2: 0.99152
Parameters:
 a = 115.47546
 b = 1627.07582
 c = 58.00208
 d = 0.49147

Bead 2636

Date : Mon Oct 17 13:30:03 PDT 2022
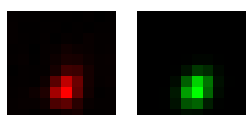Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -143 um (x), -55.4 um (y), 57.9 um (z)
Corresponding bead : Not found

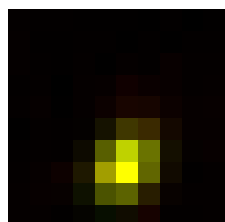| FWHM	Non corrected	Corrected	Theoretical
min	408 nm	422 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.35 um	1.36 um	885 nm
Asymmetry	0.763		
Theta	56.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.985$

Parameters:
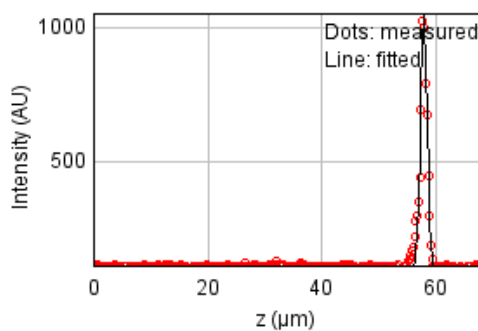A = 1018.525   (brightness)
B = 118.692   (background)
a = 0.699 px
b = 0.156 px
c = 0.574 px

xc = 4.914 px
yc = 6.693 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 80075.7791
Standard deviation: 16.15033
R^2: 0.98042
Parameters:
a = 113.13182
b = 1059.02254
c = 57.91530
d = 0.57356

Bead 2637

Date : Mon Oct 17 13:30:03 PDT 2022
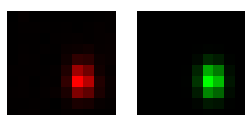Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -92.5 um (x), -55.9 um (y), 58.1 um (z)
Corresponding bead : Not found

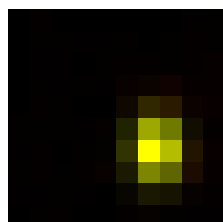| FWHM	Non corrected	Corrected	Theoretical
min	376 nm	388 nm	223 nm
max	503 nm	520 nm	223 nm
z	1.19 um	1.2 um	885 nm
Asymmetry	0.747		
Theta	-88.5°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.992$

   Parameters:
    A = 1493.135   (brightness)
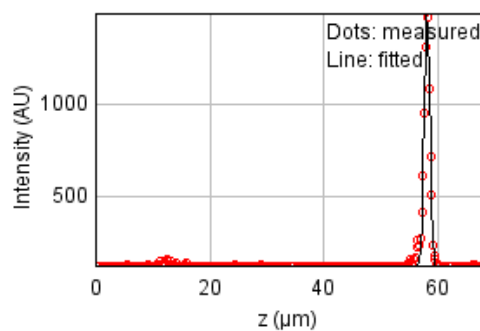   B = 123.145   (background)
    a = 0.951 px
    b = -0.011 px
    c = 0.532 px

   xc = 6.340 px
   yc = 5.895 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 86658.2909
Standard deviation: 16.80103
R^2: 0.98871
Parameters:
 a = 115.84138
 b = 1498.74859
 c = 58.12118
 d = 0.50588

Bead 2638

Date : Mon Oct 17 13:30:03 PDT 2022
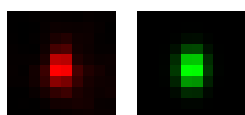Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -110 um (x), -94.8 um (y), 59.4 um (z)
Corresponding bead : Not found

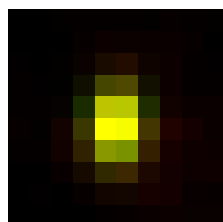| FWHM	Non corrected	Corrected	Theoretical
min	419 nm	433 nm	223 nm
max	586 nm	606 nm	223 nm
z	1.49 um	1.49 um	885 nm
Asymmetry	0.715		
Theta	88.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.973$

Parameters:
 A = 1464.485   (brightness)
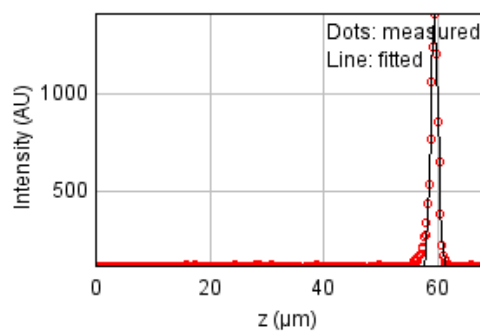 B = 148.249   (background)
 a = 0.764 px
 b = 0.011 px
 c = 0.391 px

xc = 4.494 px
yc = 4.821 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 117476.553
Standard deviation: 19.56169
R^2: 0.98609
Parameters:
 a = 114.19975
 b = 1414.23943
 c = 59.43787
 d = 0.63234

Bead 2639

Date : Mon Oct 17 13:30:03 PDT 2022
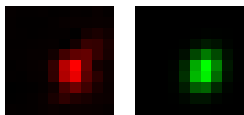Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 23.5 um (x), 64.8 um (y), 58.6 um (z)
Corresponding bead : Not found

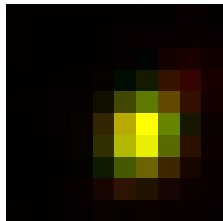| FWHM	Non corrected	Corrected	Theoretical
min	485 nm	502 nm	223 nm
max	603 nm	623 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.806		
Theta	66.4°		

XY profile & fitting parameters :

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

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

Parameters:
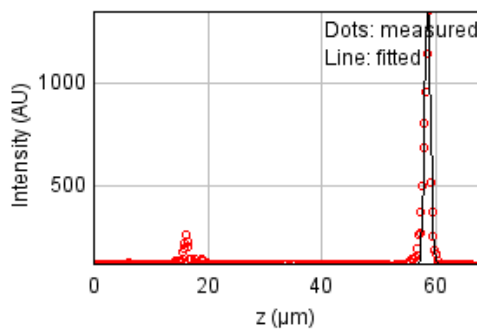A = 1161.214   (brightness)
B = 133.253   (background)
a = 0.537 px
b = 0.073 px
c = 0.401 px

xc = 5.821 px
yc = 5.450 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 553675.543
Standard deviation: 42.46767
R^2: 0.91929
Parameters:
a = 120.09365
b = 1363.15811
c = 58.60346
d = 0.52073

Bead 2640

Date : Mon Oct 17 13:30:03 PDT 2022
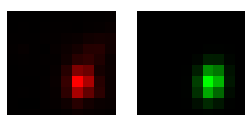Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 21.6 um (x), 47.7 um (y), 58.6 um (z)
Corresponding bead : Not found

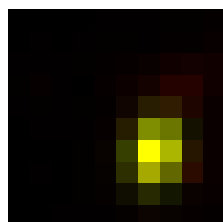| FWHM	Non corrected	Corrected	Theoretical
min	387 nm	400 nm	223 nm
max	527 nm	544 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.734		
Theta	79.2°		

XY profile & fitting parameters :

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

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

Parameters:
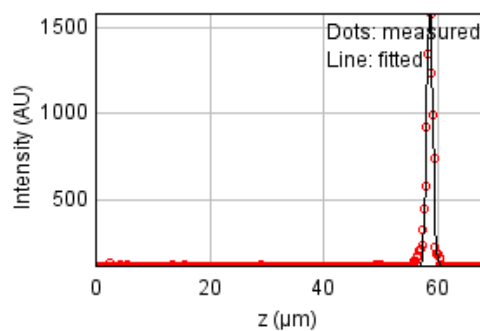 A = 1582.847 (brightness)
 B = 135.839 (background)
 a = 0.883 px
 b = 0.077 px
 c = 0.498 px

xc = 6.303 px
yc = 6.041 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 126673.255
Standard deviation: 20.31296
R^2: 0.98654
Parameters:
 a = 115.52647
 b = 1607.12160
 c = 58.62272
 d = 0.53280

Bead 2641

Date : Mon Oct 17 13:30:03 PDT 2022
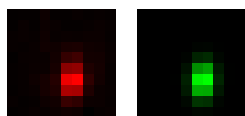Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -159 um (x), 19.8 um (y), 57.9 um (z)
Corresponding bead : Not found

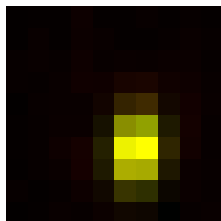| FWHM	Non corrected	Corrected	Theoretical
min	368 nm	380 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.66		
Theta	86.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.988$

Parameters:
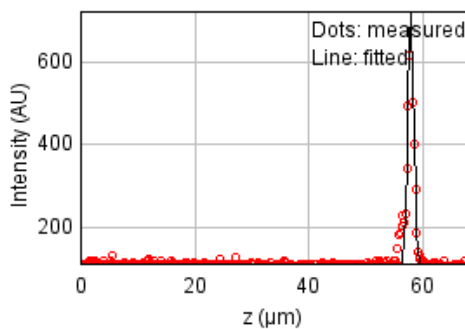 A = 767.224   (brightness)
 B = 117.259   (background)
 a = 0.991 px
 b = 0.036 px
 c = 0.435 px

xc = 5.525 px
yc = 6.071 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 55362.0582
Standard deviation: 13.42879
R^2: 0.96507
Parameters:
 a = 112.30395
 b = 721.68955
 c = 57.89966
 d = 0.52575

Bead 2642

Date : Mon Oct 17 13:30:03 PDT 2022
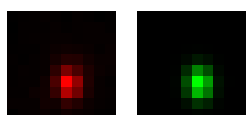Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -134 um (x), -21.4 um (y), 58.1 um (z)
Corresponding bead : Not found

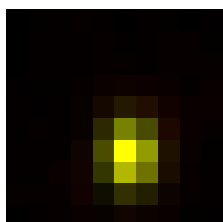| FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	516 nm	533 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.769		
Theta	-87.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.987$

Parameters:
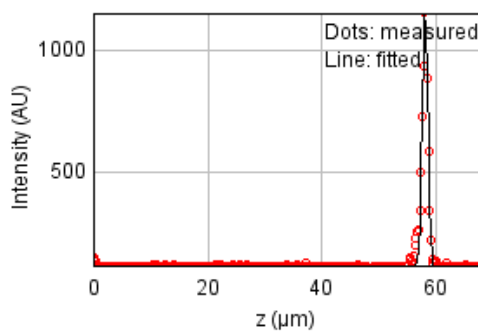 A = 1054.732   (brightness)
 B = 121.410   (background)
 a = 0.853 px
 b = -0.015 px
 c = 0.505 px

xc = 5.208 px
yc = 6.175 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 79882.3943
Standard deviation: 16.13082
R^2: 0.98177
Parameters:
 a = 113.81093
 b = 1155.84105
 c = 58.13313
 d = 0.50521

Bead 2643

Date : Mon Oct 17 13:30:03 PDT 2022
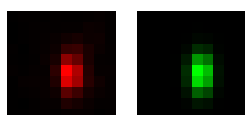Origin : data_traditional.tif   (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -29.0 um (x), -51.8 um (y), 58.1 um (z)
Corresponding bead : Not found

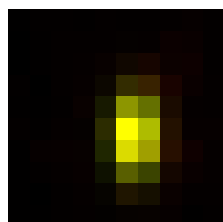| FWHM	Non corrected	Corrected	Theoretical
min	359 nm	372 nm	223 nm
max	625 nm	646 nm	223 nm
z	1.26 um	1.26 um	885 nm
Asymmetry	0.575		
Theta	89.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.984$

Parameters:
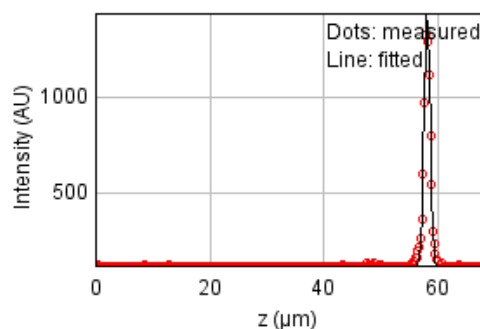A = 1541.838   (brightness)
B = 131.465   (background)
a = 1.039 px
b = 0.008 px
c = 0.344 px

xc = 5.351 px
yc = 5.269 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 53842.7675
Standard deviation: 13.24325
R^2: 0.99271
Parameters:
a = 114.46379
b = 1437.78767
c = 58.13178
d = 0.53444

Bead 2644

Date : Mon Oct 17 13:30:03 PDT 2022
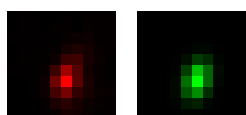Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 11.2 um (x), -79.8 um (y), 58.4 um (z)
Corresponding bead : Not found

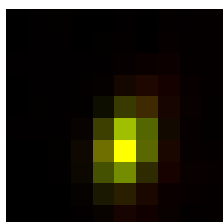| FWHM	Non corrected	Corrected	Theoretical
min	383 nm	396 nm	223 nm
max	576 nm	596 nm	223 nm
z	1.44 um	1.44 um	885 nm
Asymmetry	0.666		
Theta	73.1°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.967$

 Parameters:
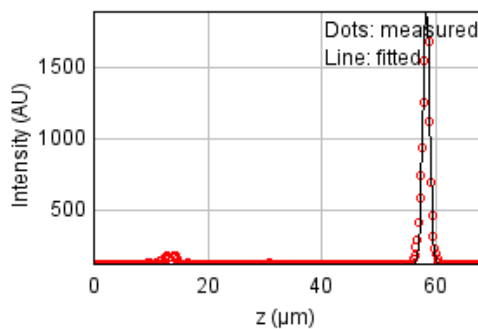 A = 1712.803   (brightness)
  B = 136.570   (background)
  a = 0.870 px
  b = 0.141 px
  c = 0.447 px

  xc = 5.007 px
  yc = 5.828 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 270840.080
Standard deviation: 29.70211
R^2: 0.98241
Parameters:
 a = 118.93219
 b = 1902.40863
 c = 58.35561
 d = 0.60982

Bead 2645

Date : Mon Oct 17 13:30:03 PDT 2022
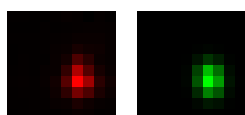Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -100 um (x), -88.6 um (y), 58.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	406 nm	419 nm	223 nm
max	519 nm	536 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.782		
Theta	-84.7°		

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
  $R^2 = 0.977$

Parameters:
 A = 1510.311   (brightness)
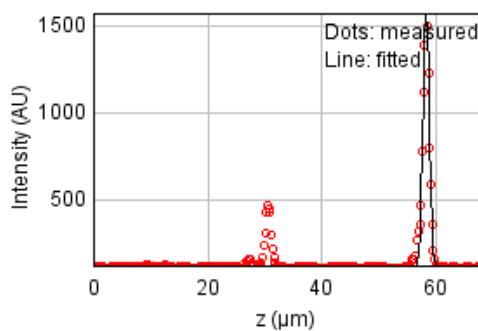 B = 125.083   (background)
 a = 0.813 px
 b = -0.029 px
 c = 0.501 px

xc = 6.189 px
yc = 5.820 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 645175.704
Standard deviation: 45.84266
R^2: 0.93396
Parameters:
 a = 123.33038
 b = 1566.10171
 c = 58.32434
 d = 0.56046

Bead 2646

Date : Mon Oct 17 13:30:03 PDT 2022
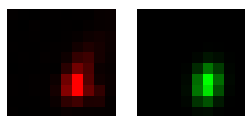Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 53.5 um (x), 93.6 um (y), 58.9 um (z)
Corresponding bead : Not found

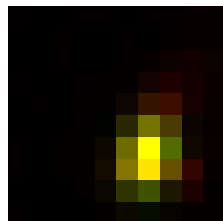| FWHM	Non corrected	Corrected	Theoretical
min	390 nm	403 nm	223 nm
max	557 nm	576 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.7		
Theta	77.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1608.344   (brightness)
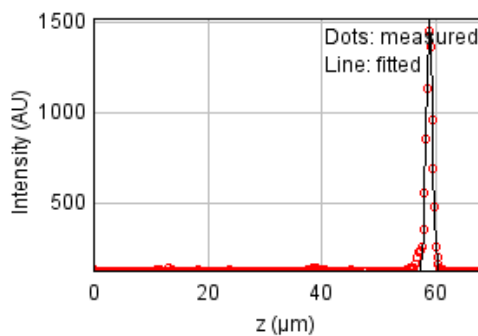 B = 140.014   (background)
 a = 0.860 px
 b = 0.096 px
 c = 0.454 px

xc = 5.956 px
yc = 6.384 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 89644.5014
Standard deviation: 17.08806
R^2: 0.98947
Parameters:
 a = 118.19597
 b = 1527.36983
 c = 58.90790
 d = 0.54196

Bead 2647

Date : Mon Oct 17 13:30:03 PDT 2022
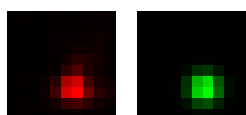Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -22.3 um (x), 84.1 um (y), 58.9 um (z)
Corresponding bead : Not found

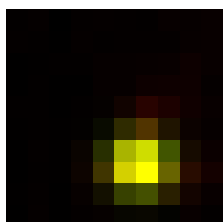| FWHM	Non corrected	Corrected	Theoretical
min	453 nm	469 nm	223 nm
max	483 nm	499 nm	223 nm
z	1.32 um	1.33 um	885 nm
Asymmetry	0.939		
Theta	-2.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.972$

Parameters:
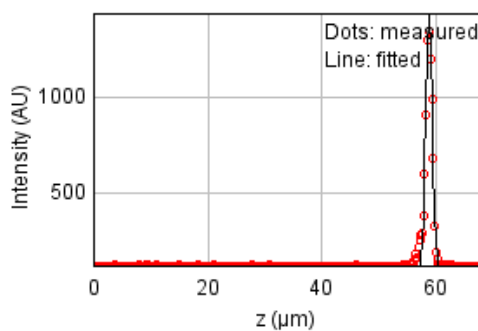A = 1563.457   (brightness)
B = 132.096   (background)
a = 0.576 px
b = -0.003 px
c = 0.653 px

xc = 5.679 px
yc = 6.611 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 95118.7068
Standard deviation: 17.60207
R^2: 0.98829
Parameters:
a = 115.44941
b = 1468.37085
c = 58.85189
d = 0.56099

Bead 2648

Date : Mon Oct 17 13:30:03 PDT 2022
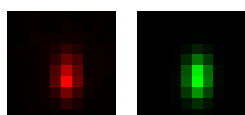Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -128 um (x), 58.8 um (y), 58.4 um (z)
Corresponding bead : Not found

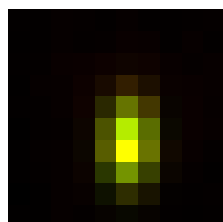| FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	653 nm	675 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.588		
Theta	88.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.974$

Parameters:
A = 1095.714   (brightness)
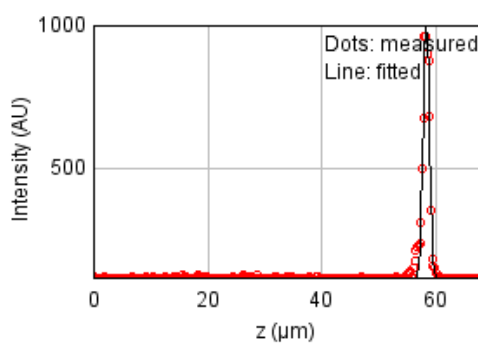B = 125.400   (background)
a = 0.910 px
b = 0.015 px
c = 0.315 px

xc = 5.065 px
yc = 5.625 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 74466.7467
Standard deviation: 15.57442
R^2: 0.97904
Parameters:
 a = 113.35944
 b = 1005.41581
 c = 58.35221
 d = 0.55877

Bead 2649

Date : Mon Oct 17 13:30:03 PDT 2022
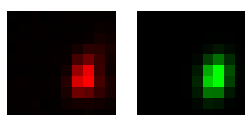Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 30.5 um (x), 30.0 um (y), 58.6 um (z)
Corresponding bead : Not found

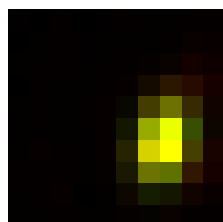| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	593 nm	613 nm	223 nm
z	1.2 um	1.21 um	885 nm
Asymmetry	0.681		
Theta	75.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.977$

Parameters:
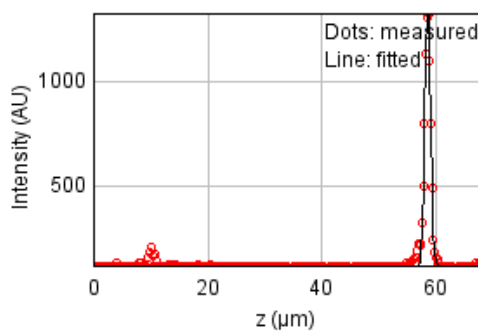A = 1347.057   (brightness)
B = 126.302   (background)
a = 0.795 px
b = 0.104 px
c = 0.407 px

xc = 6.679 px
yc = 5.586 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 86075.8171
Standard deviation: 16.74447
R^2: 0.98604
Parameters:
a = 117.40377
b = 1349.82079
c = 58.62024
d = 0.51031

Bead 2650

Date : Mon Oct 17 13:30:03 PDT 2022
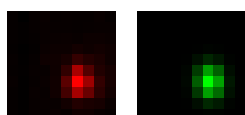Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 140 um (x), -8.36 um (y), 58.2 um (z)
Corresponding bead : Not found

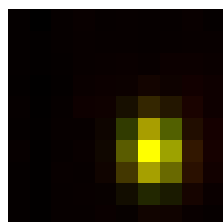| FWHM	Non corrected	Corrected	Theoretical
min	425 nm	439 nm	223 nm
max	533 nm	551 nm	223 nm
z	1.49 um	1.5 um	885 nm
Asymmetry	0.798		
Theta	-86.0°		

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 = 0.975

Parameters:
 A = 882.582   (brightness)
 B = 115.885   (background)
 a = 0.742 px
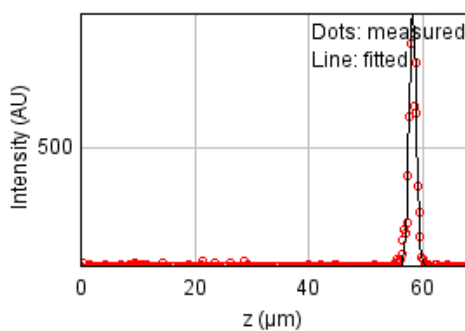 b = -0.019 px
 c = 0.474 px

xc = 6.192 px
yc = 6.013 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 107097.178
Standard deviation: 18.67755
R^2: 0.96940
Parameters:
 a = 110.87701
 b = 940.70844
 c = 58.24776
 d = 0.63257

Bead 2651

Date : Mon Oct 17 13:30:04 PDT 2022
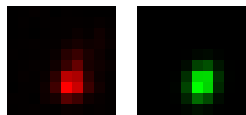Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -119 um (x), -44.8 um (y), 58.3 um (z)
Corresponding bead : Not found

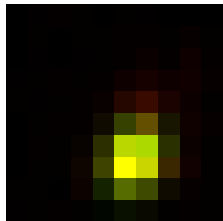| FWHM	Non corrected	Corrected	Theoretical
min	411 nm	425 nm	223 nm
max	527 nm	545 nm	223 nm
z	1.08 um	1.09 um	885 nm
Asymmetry	0.78		
Theta	70.8°		

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 = 0.958

Parameters:
 A = 960.408   (brightness)
 B = 124.565   (background)
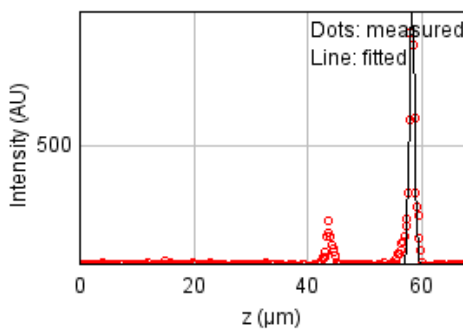 a = 0.761 px
 b = 0.097 px
 c = 0.517 px

xc = 5.431 px
yc = 6.583 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 147478.731
Standard deviation: 21.91773
R^2: 0.94277
Parameters:
 a = 117.47705
 b = 937.48806
 c = 58.30061
 d = 0.45950

Bead 2652

Date : Mon Oct 17 13:30:04 PDT 2022
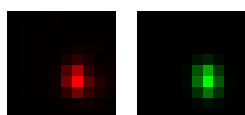Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 89.7 um (x), -88.0 um (y), 58.7 um (z)
Corresponding bead : Not found

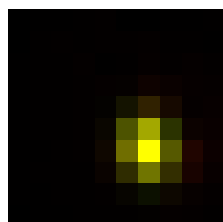| FWHM	Non corrected	Corrected	Theoretical
min	374 nm	386 nm	223 nm
max	477 nm	493 nm	223 nm
z	1.23 um	1.24 um	885 nm
Asymmetry	0.783		
Theta	-79.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.984$

Parameters:
 A = 2051.247   (brightness)
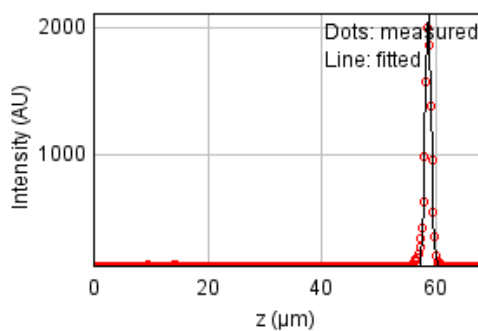 B = 130.251   (background)
 a = 0.950 px
 b = -0.064 px
 c = 0.601 px

xc = 5.931 px
yc = 5.842 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 98962.2202
Standard deviation: 17.95418
R^2: 0.99397
Parameters:
 a = 116.32563
 b = 2112.20338
 c = 58.70944
 d = 0.52267

Bead 2653

Date : Mon Oct 17 13:30:04 PDT 2022
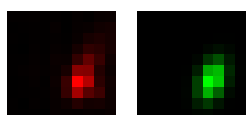Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 71.6 um (x), 81.9 um (y), 58.7 um (z)
Corresponding bead : Not found

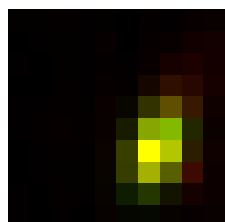| FWHM	Non corrected	Corrected	Theoretical
min	386 nm	399 nm	223 nm
max	636 nm	657 nm	223 nm
z	1.53 um	1.54 um	885 nm
Asymmetry	0.608		
Theta	70.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.933$

Parameters:
A = 1208.264   (brightness)
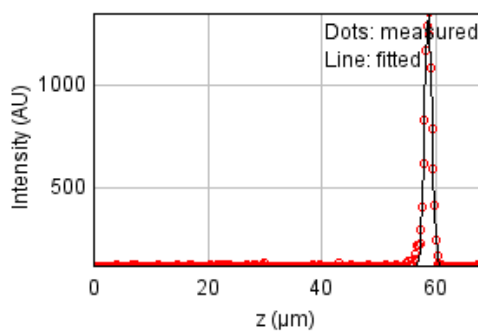B = 130.035   (background)
a = 0.833 px
b = 0.182 px
c = 0.398 px

xc = 6.376 px
yc = 5.864 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 41732.1197
Standard deviation: 11.65913
R^2: 0.99460
Parameters:
a = 114.43423
b = 1347.19690
c = 58.71445
d = 0.65018

Bead 2654 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
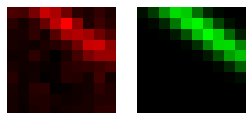Frame size : 10 pixels

Coordinates : 142 um (x), -61.3 um (y), 2.22 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

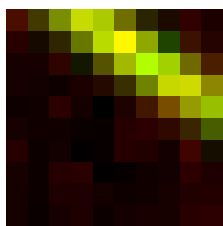| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	2.87 um	2.96 um	223 nm
z	1.44 um	1.45 um	885 nm
Asymmetry	0.145		
Theta	-33.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.921$

Parameters:
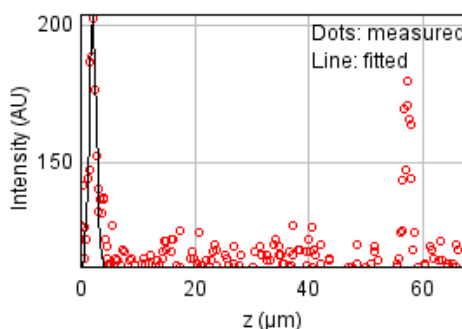 A = 90.236   (brightness)
 B = 113.857   (background)
 a = 0.252 px
 b = -0.351 px
 c = 0.540 px

xc = 5.560 px
yc = 1.597 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 37657.2796
Standard deviation: 11.07529
R^2: 0.51492
Parameters:
 a = 112.28715
 b = 203.74286
 c = 2.22033
 d = 0.61285

Bead 2655

Date : Mon Oct 17 13:30:04 PDT 2022
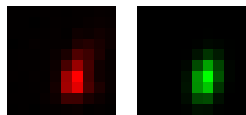Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 2.82 um (x), 94.3 um (y), 59.3 um (z)
Corresponding bead : Not found

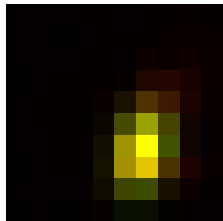| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	641 nm	662 nm	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.614		
Theta	77.2°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1749.132   (brightness)
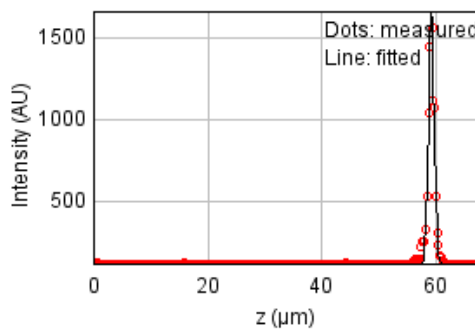 B = 136.585   (background)
 a = 0.842 px
 b = 0.117 px
 c = 0.354 px

xc = 5.801 px
yc = 6.203 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 165979.943
Standard deviation: 23.25191
R^2: 0.98303
Parameters:
 a = 116.51711
 b = 1677.98599
 c = 59.25569
 d = 0.50282

Bead 2656

Date : Mon Oct 17 13:30:04 PDT 2022
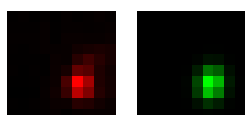Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 155 um (x), 52.3 um (y), 58.9 um (z)
Corresponding bead : Not found

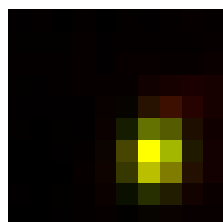| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	416 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.34 um	1.34 um	885 nm
Asymmetry	0.806		
Theta	80.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.957$

Parameters:
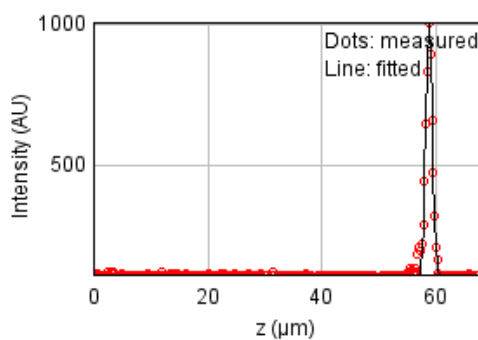A = 955.658   (brightness)
B = 125.570   (background)
a = 0.822 px
b = 0.048 px
c = 0.548 px

xc = 6.286 px
yc = 6.208 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 41089.2914
Standard deviation: 11.56898
R^2: 0.98879
Parameters:
 a = 112.34400
 b = 1015.62105
 c = 58.86768
 d = 0.56823

Bead 2657

Date : Mon Oct 17 13:30:04 PDT 2022
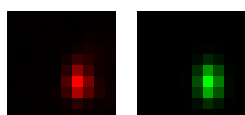Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 8.83 um (x), 34.7 um (y), 58.9 um (z)
Corresponding bead : Not found

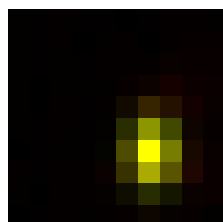| FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	537 nm	555 nm	223 nm
z	1.22 um	1.22 um	885 nm
Asymmetry	0.693		
Theta	-89.7°		

XY profile & fitting parameters :

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

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

Parameters:
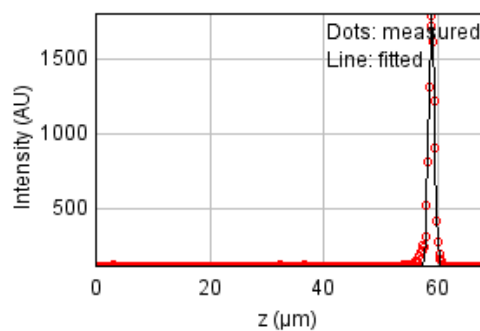 A = 1654.112   (brightness)
 B = 128.439   (background)
 a = 0.970 px
 b = -0.003 px
 c = 0.466 px

 xc = 6.129 px
 yc = 6.071 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 85976.5980
Standard deviation: 16.73482
R^2: 0.99262
Parameters:
 a = 115.40949
 b = 1804.15264
 c = 58.94528
 d = 0.51711

Bead 2658

Date : Mon Oct 17 13:30:04 PDT 2022
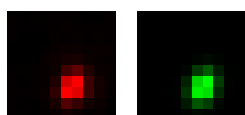Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -60.6 um (x), 34.7 um (y), 59.4 um (z)
Corresponding bead : Not found

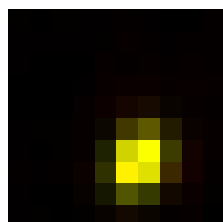| FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	503 nm	520 nm	223 nm
z	1.43 um	1.43 um	885 nm
Asymmetry	0.774		
Theta	65.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.991$

Parameters:
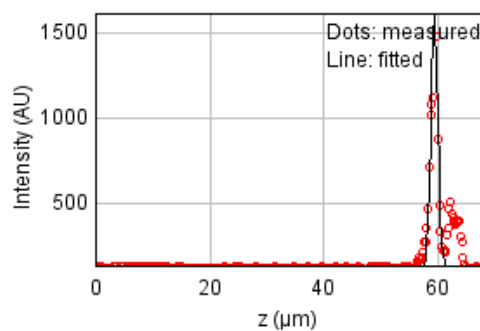 A = 2051.700   (brightness)
 B = 139.304   (background)
 a = 0.823 px
 b = 0.136 px
 c = 0.595 px

 xc = 5.536 px
 yc = 6.491 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 1470748.25
Standard deviation: 69.21496
R^2: 0.87584
Parameters:
 a = 128.70627
 b = 1610.28915
 c = 59.42839
 d = 0.60586

Bead 2659

Date : Mon Oct 17 13:30:04 PDT 2022
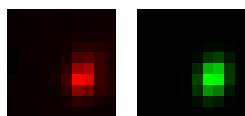Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 136 um (x), 27.8 um (y), 59.0 um (z)
Corresponding bead : Not found

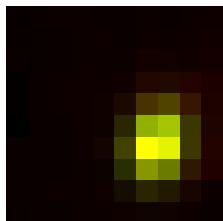| FWHM	Non corrected	Corrected	Theoretical
min	430 nm	444 nm	223 nm
max	564 nm	583 nm	223 nm
z	1.49 um	1.5 um	885 nm
Asymmetry	0.762		
Theta	73.5°		

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 = 0.965

Parameters:
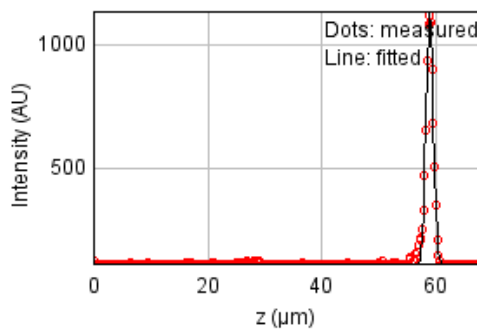A = 1058.875   (brightness)
B = 121.082   (background)
a = 0.702 px
b = 0.083 px
c = 0.446 px

xc = 6.486 px
yc = 5.821 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39852.3246
Standard deviation: 11.39351
R^2: 0.99232
Parameters:
a = 112.94597
b = 1133.79687
c = 58.96066
d = 0.63463

Bead 2660

Date : Mon Oct 17 13:30:04 PDT 2022
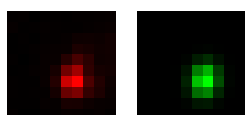Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

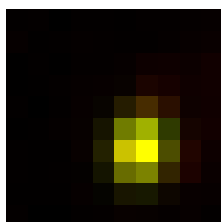Coordinates : 110 um (x), 16.1 um (y), 58.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	423 nm	438 nm	223 nm
max	513 nm	530 nm	223 nm
z	1.73 um	1.74 um	885 nm
Asymmetry	0.826		
Theta	79.7°		

XY profile & fitting parameters :

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

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

Parameters:
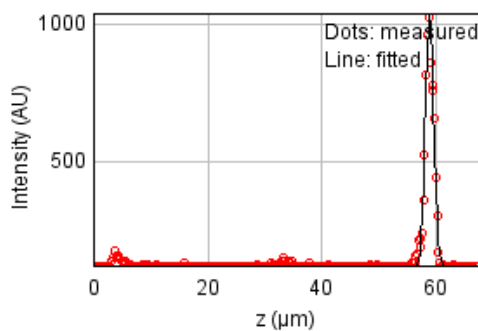 A = 1203.649   (brightness)
 B = 127.586   (background)
 a = 0.741 px
 b = 0.042 px
 c = 0.518 px

xc = 5.693 px
yc = 5.879 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 117610.976
Standard deviation: 19.57288
R^2: 0.97634
Parameters:
 a = 115.65700
 b = 1038.85047
 c = 58.94093
 d = 0.73504

Bead 2661

Date : Mon Oct 17 13:30:04 PDT 2022
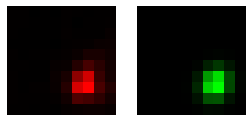Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 94.5 um (x), 2.94 um (y), 59.5 um (z)
Corresponding bead : Not found

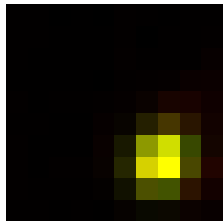| FWHM	Non corrected	Corrected	Theoretical
min	412 nm	426 nm	223 nm
max	477 nm	493 nm	223 nm
z	1.16 um	1.16 um	885 nm
Asymmetry	0.864		
Theta	61.5°		

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:
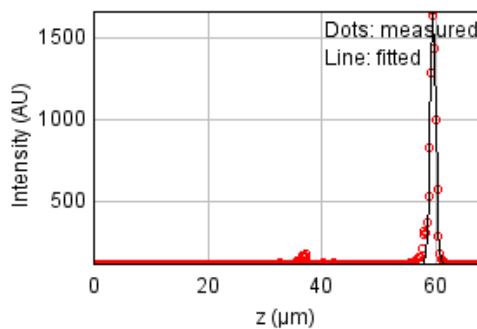 A = 1772.538   (brightness)
 B = 127.915   (background)
 a = 0.744 px
 b = 0.084 px
 c = 0.636 px

 xc = 6.675 px
 yc = 6.656 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 159176.024
Standard deviation: 22.77035
R^2: 0.98335
Parameters:
 a = 117.65907
 b = 1679.71370
 c = 59.53534
 d = 0.49091

Bead 2662

Date : Mon Oct 17 13:30:04 PDT 2022
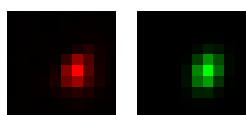Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -110 um (x), -43.1 um (y), 59.1 um (z)
Corresponding bead : Not found

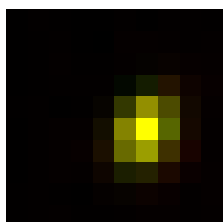| FWHM	Non corrected	Corrected	Theoretical
min	397 nm	410 nm	223 nm
max	532 nm	550 nm	223 nm
z	1.23 um	1.23 um	885 nm
Asymmetry	0.746		
Theta	66.9°		

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
   $R^2 = 0.986$

Parameters:
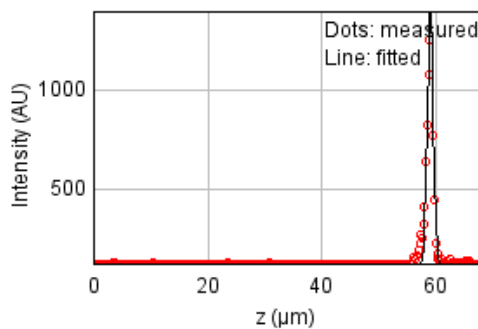 A = 1325.108   (brightness)
 B = 122.852   (background)
 a = 0.794 px
 b = 0.136 px
 c = 0.532 px

xc = 5.910 px
yc = 5.068 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 245834.262
Standard deviation: 28.29776
R^2: 0.96606
Parameters:
 a = 115.57071
 b = 1425.14114
 c = 59.07415
 d = 0.52069

Bead 2663

Date : Mon Oct 17 13:30:04 PDT 2022
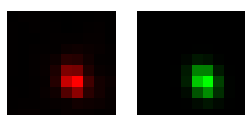Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 111 um (x), -79.4 um (y), 59.5 um (z)
Corresponding bead : Not found

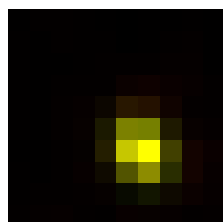| FWHM	Non corrected	Corrected	Theoretical
min	389 nm	402 nm	223 nm
max	482 nm	498 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.808		
Theta	-61.3°		

XY profile & fitting parameters :

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

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

Parameters:
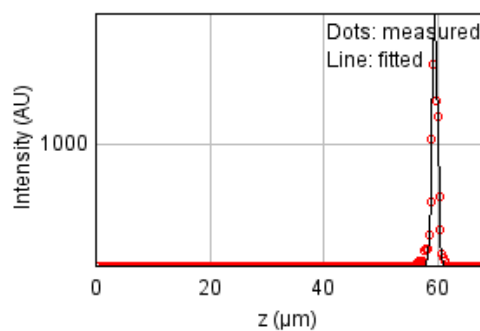 A = 2050.262   (brightness)
 B = 134.615   (background)
 a = 0.815 px
 b = -0.129 px
 c = 0.649 px

xc = 5.648 px
yc = 5.963 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 178516.742
Standard deviation: 24.11406
R^2: 0.98674
Parameters:
 a = 114.99166
 b = 1996.51595
 c = 59.50622
 d = 0.47769

Bead 2664

Date : Mon Oct 17 13:30:04 PDT 2022
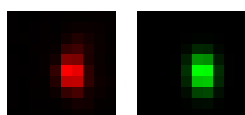Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 5.83 um (x), -94.2 um (y), 59.3 um (z)
Corresponding bead : Not found

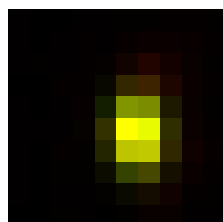| FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	578 nm	597 nm	223 nm
z	1.5 um	1.51 um	885 nm
Asymmetry	0.692		
Theta	-87.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.982$

Parameters:
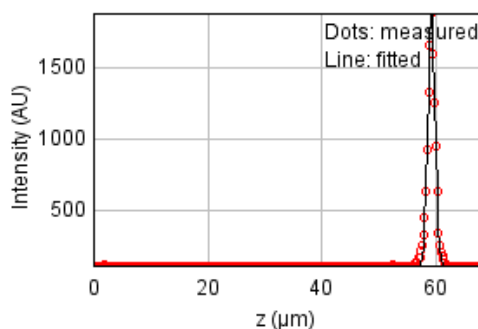A = 2145.105   (brightness)
B = 137.654   (background)
a = 0.838 px
b = -0.023 px
c = 0.403 px

xc = 5.495 px
yc = 5.197 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 77208.1329
Standard deviation: 15.85851
R^2: 0.99509
Parameters:
a = 115.24669
b = 1890.70264
c = 59.27419
d = 0.63745

Bead 2665

Date : Mon Oct 17 13:30:04 PDT 2022
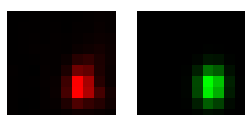Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 69.4 um (x), 26.1 um (y), 59.4 um (z)
Corresponding bead : Not found

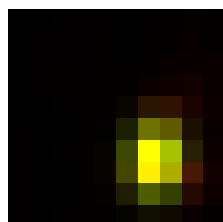| FWHM	Non corrected	Corrected	Theoretical
min	416 nm	430 nm	223 nm
max	553 nm	572 nm	223 nm
z	1.48 um	1.49 um	885 nm
Asymmetry	0.751		
Theta	85.7°		

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:
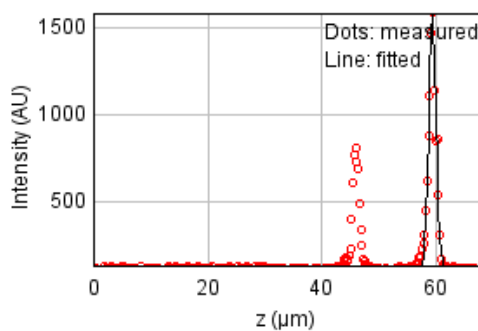 A = 1834.354   (brightness)
 B = 129.016   (background)
 a = 0.775 px
 b = 0.025 px
 c = 0.440 px

xc = 6.310 px
yc = 6.405 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 2338082.82
Standard deviation: 87.26915
R^2: 0.81466
Parameters:
 a = 132.11687
 b = 1580.17794
 c = 59.43029
 d = 0.62901

Bead 2666

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -38.2 um (x), -33.1 um (y), 48.1 um (z)
Corresponding bead : Not found

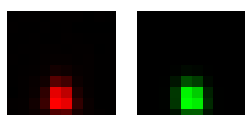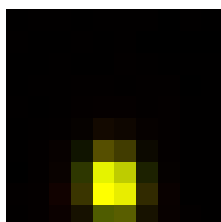| FWHM	Non corrected	Corrected	Theoretical
min	401 nm	414 nm	223 nm
max	504 nm	521 nm	223 nm
z	1.28 um	1.28 um	885 nm
Asymmetry	0.796		
Theta	-80.8°		

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 = 0.994

Parameters:
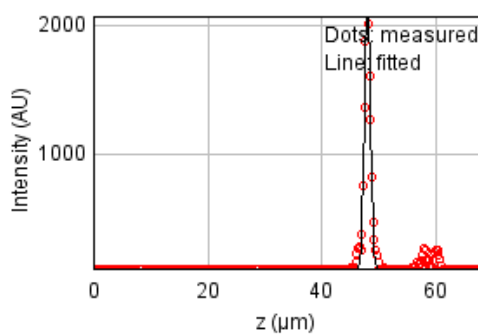A = 2458.753   (brightness)
B = 122.649   (background)
a = 0.827 px
b = -0.049 px
c = 0.536 px

xc = 4.429 px
yc = 7.589 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 378743.766
Standard deviation: 35.12397
R^2: 0.97747
Parameters:
a = 122.99015
b = 2088.57401
c = 48.05270
d = 0.54333

Bead 2667

Date : Mon Oct 17 13:30:04 PDT 2022
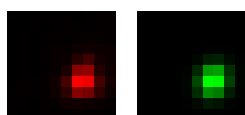Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -138 um (x), -55.9 um (y), 59.3 um (z)
Corresponding bead : Not found

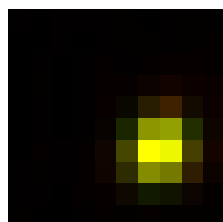| FWHM	Non corrected	Corrected	Theoretical
min	444 nm	459 nm	223 nm
max	497 nm	513 nm	223 nm
z	1.32 um	1.32 um	885 nm
Asymmetry	0.895		
Theta	65.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.985$

 Parameters:
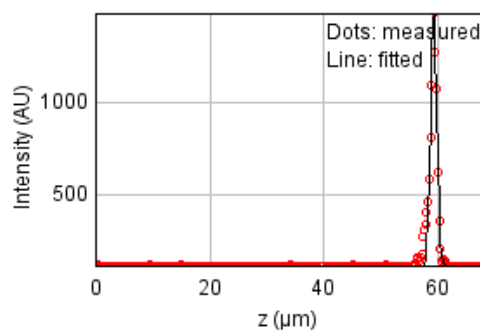 A = 1521.088   (brightness)
  B = 125.948   (background)
  a = 0.657 px
  b = 0.051 px
  c = 0.567 px

 xc = 6.480 px
 yc = 5.924 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 239787.063
Standard deviation: 27.94755
R^2: 0.97198
Parameters:
 a = 114.03038
 b = 1493.11205
 c = 59.31452
 d = 0.55926

Bead 2668

Date : Mon Oct 17 13:30:04 PDT 2022
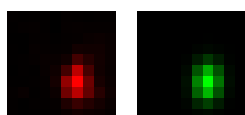Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 40.3 um (x), -57.7 um (y), 59.2 um (z)
Corresponding bead : Not found

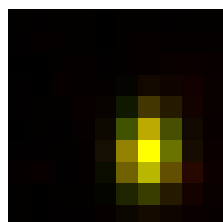| FWHM	Non corrected	Corrected	Theoretical
min	426 nm	440 nm	223 nm
max	602 nm	622 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.708		
Theta	86.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.978$

Parameters:
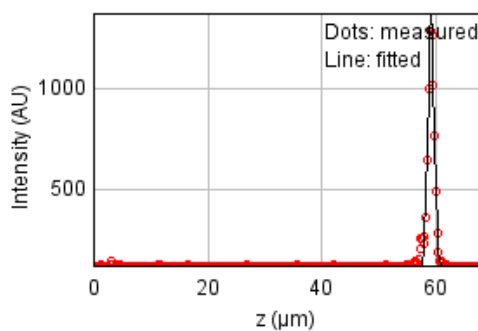 A = 1181.461   (brightness)
 B = 126.303   (background)
 a = 0.738 px
 b = 0.022 px
 c = 0.372 px

xc = 5.955 px
yc = 6.051 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 277050.673
Standard deviation: 30.04073
R^2: 0.96153
Parameters:
 a = 114.76582
 b = 1374.18139
 c = 59.19754
 d = 0.55822

Bead 2669

Date : Mon Oct 17 13:30:04 PDT 2022
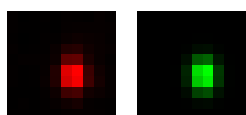Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -69.4 um (x), -76.2 um (y), 59.2 um (z)
Corresponding bead : Not found

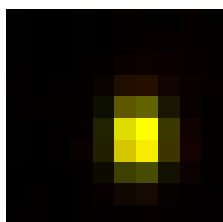| FWHM	Non corrected	Corrected	Theoretical
min	399 nm	412 nm	223 nm
max	510 nm	527 nm	223 nm
z	1.16 um	1.17 um	885 nm
Asymmetry	0.782		
Theta	-88.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.991$

Parameters:
 A = 2187.694   (brightness)
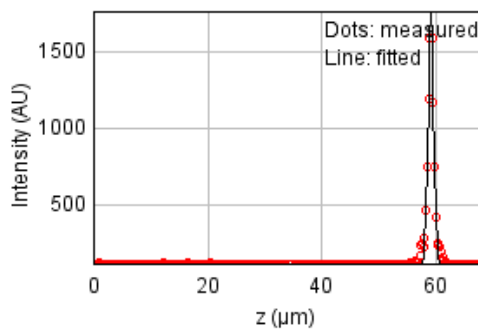 B = 128.964   (background)
 a = 0.844 px
 b = -0.010 px
 c = 0.516 px

 xc = 5.593 px
 yc = 5.412 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 96947.8951
Standard deviation: 17.77051
R^2: 0.99079
Parameters:
 a = 115.01691
 b = 1757.19019
 c = 59.17533
 d = 0.49292

Bead 2670 (Rejected)

Date : Mon Oct 17 13:30:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -127 um (x), -77.0 um (y), 52.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

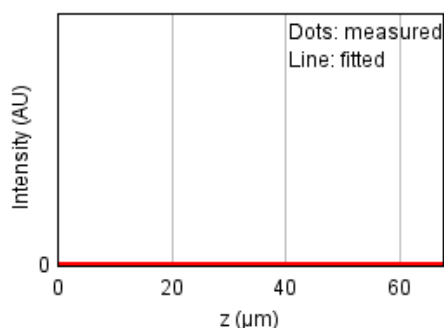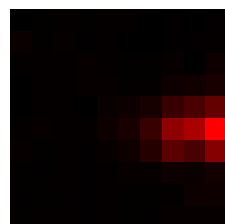| FWHM	Non corrected	Corrected	Theoretical
min	0	0	223 nm
max	0	0	223 nm
z	263 nm	264 nm	885 nm
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

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

Bead 2671

Date : Mon Oct 17 13:30:04 PDT 2022
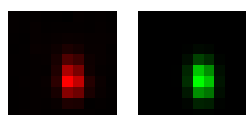Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -87.7 um (x), 84.3 um (y), 59.6 um (z)
Corresponding bead : Not found

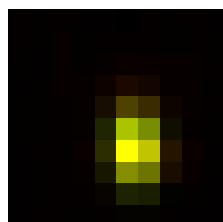| FWHM	Non corrected	Corrected	Theoretical
min	365 nm	377 nm	223 nm
max	563 nm	582 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.648		
Theta	-86.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.987$

Parameters:
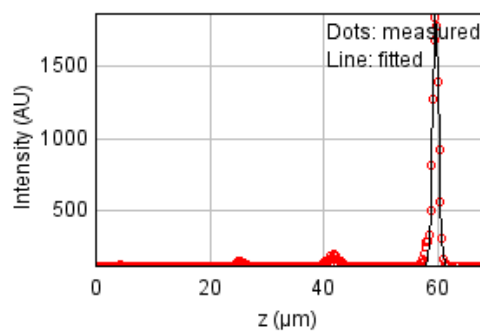 A = 1879.197   (brightness)
 B = 125.532   (background)
 a = 1.005 px
 b = -0.033 px
 c = 0.425 px

xc = 5.363 px
yc = 5.837 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 145655.495
Standard deviation: 21.78182
R^2: 0.98851
Parameters:
 a = 120.36007
 b = 1866.05956
 c = 59.64444
 d = 0.52459

Bead 2672

Date : Mon Oct 17 13:30:04 PDT 2022
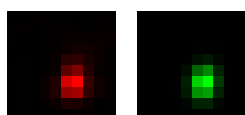Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -40.6 um (x), 36.1 um (y), 59.4 um (z)
Corresponding bead : Not found

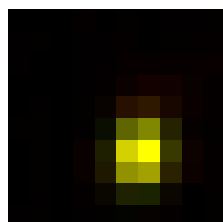| FWHM	Non corrected	Corrected	Theoretical
min	395 nm	408 nm	223 nm
max	499 nm	516 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.791		
Theta	81.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.986$

Parameters:
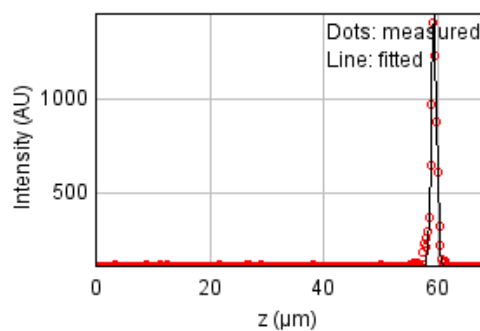 A = 1564.614   (brightness)
 B = 127.334   (background)
 a = 0.854 px
 b = 0.050 px
 c = 0.546 px

xc = 5.614 px
yc = 6.112 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 89120.4517
Standard deviation: 17.03803
R^2: 0.98694
Parameters:
 a = 114.69005
 b = 1454.73994
 c = 59.36678
 d = 0.47743

Bead 2673

Date : Mon Oct 17 13:30:04 PDT 2022
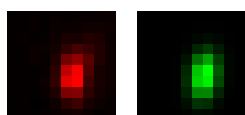Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -2.06 um (x), 34.4 um (y), 59.2 um (z)
Corresponding bead : Not found

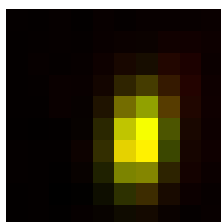| FWHM	Non corrected	Corrected	Theoretical
min	440 nm	455 nm	223 nm
max	728 nm	753 nm	223 nm
z	1.43 um	1.44 um	885 nm
Asymmetry	0.605		
Theta	81.8°		

XY profile & fitting parameters :

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

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

Parameters:
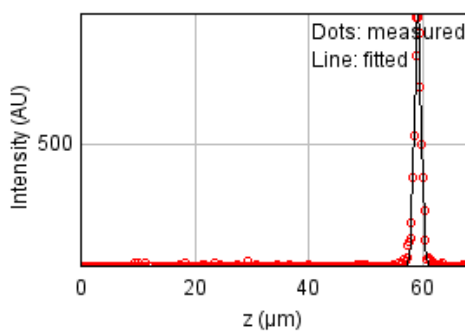 A = 1174.744   (brightness)
 B = 132.724   (background)
 a = 0.683 px
 b = 0.062 px
 c = 0.262 px

xc = 5.650 px
yc = 5.467 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27374.4170
Standard deviation: 9.44285
R^2: 0.99115
Parameters:
 a = 114.10915
 b = 918.18680
 c = 59.15563
 d = 0.60770

Bead 2674

Date : Mon Oct 17 13:30:04 PDT 2022
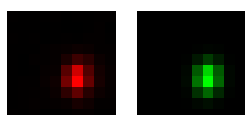Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -104 um (x), -17.1 um (y), 59.8 um (z)
Corresponding bead : Not found

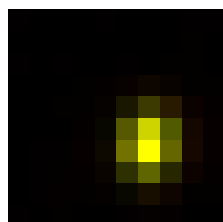| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	407 nm	223 nm
max	495 nm	511 nm	223 nm
z	1.12 um	1.13 um	885 nm
Asymmetry	0.795		
Theta	84.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.993$

Parameters:
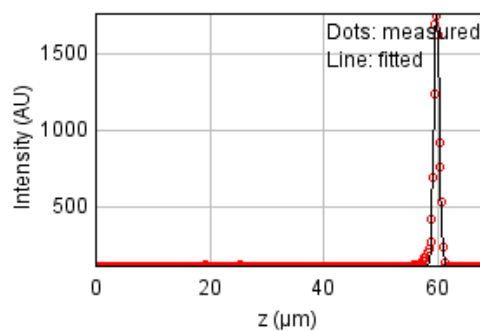 A = 1684.509   (brightness)
 B = 123.380   (background)
 a = 0.864 px
 b = 0.031 px
 c = 0.552 px

xc = 5.981 px
yc = 5.670 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 131594.082
Standard deviation: 20.70375
R^2: 0.98715
Parameters:
 a = 115.23173
 b = 1756.66064
 c = 59.81650
 d = 0.47757

Bead 2675

Date : Mon Oct 17 13:30:04 PDT 2022
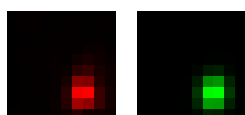Origin : data_traditional.tif   (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 53.4 um (x), -17.6 um (y), 59.8 um (z)
Corresponding bead : Not found

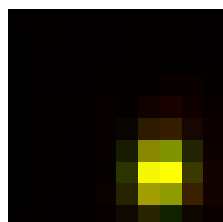| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	508 nm	525 nm	223 nm
z	1.05 um	1.06 um	885 nm
Asymmetry	0.822		
Theta	83.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.982$

Parameters:
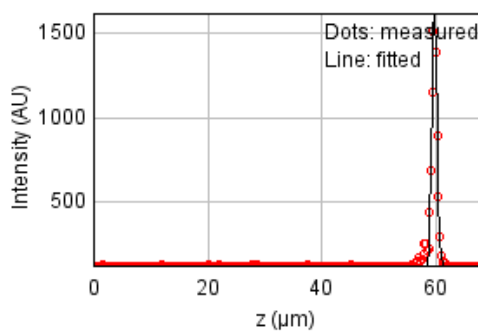 A = 1761.532   (brightness)
 B = 122.981   (background)
 a = 0.766 px
 b = 0.028 px
 c = 0.523 px

   xc = 6.519 px
   yc = 7.047 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 80213.9740
Standard deviation: 16.16426
R^2: 0.99016
Parameters:
 a = 116.51442
 b = 1630.05416
 c = 59.78434
 d = 0.44799

Bead 2676

Date : Mon Oct 17 13:30:04 PDT 2022
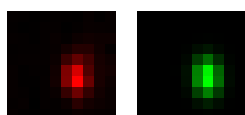Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 132 um (x), -22.8 um (y), 59.2 um (z)
Corresponding bead : Not found

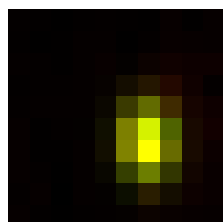| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	432 nm	223 nm
max	593 nm	613 nm	223 nm
z	1.17 um	1.17 um	885 nm
Asymmetry	0.705		
Theta	-87.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-x_c)^2 + c*(y-y_c)^2 + 2*b*(x-x_c)*(y-y_c))) + B$
  $R^2 = 0.978$

Parameters:
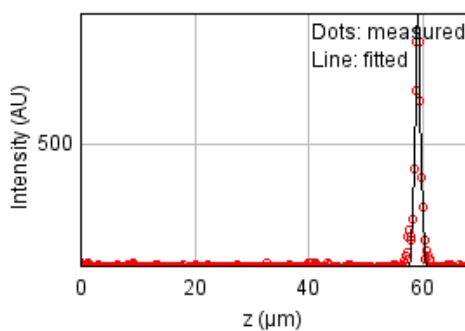 A = 989.604   (brightness)
 B = 121.208   (background)
 a = 0.768 px
 b = -0.015 px
 c = 0.382 px

xc = 5.925 px
yc = 5.568 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 51568.7338
Standard deviation: 12.96057
R^2: 0.97967
Parameters:
 a = 113.00707
 b = 912.31779
 c = 59.17174
 d = 0.49563

Bead 2677

Date : Mon Oct 17 13:30:04 PDT 2022
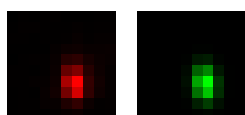Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -120 um (x), -32.4 um (y), 59.6 um (z)
Corresponding bead : Not found

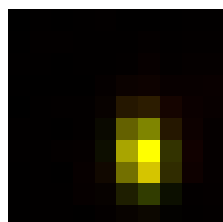| FWHM	Non corrected	Corrected	Theoretical
min	360 nm	373 nm	223 nm
max	545 nm	563 nm	223 nm
z	1.24 um	1.24 um	885 nm
Asymmetry	0.662		
Theta	-83.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.988$

Parameters:
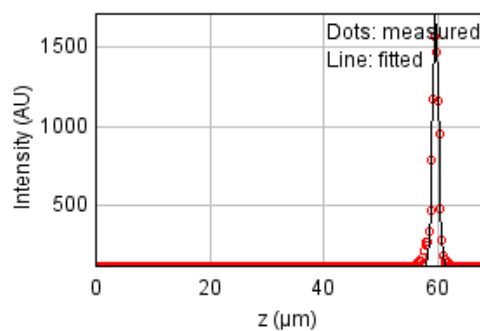A = 1947.378   (brightness)
B = 129.891   (background)
a = 1.027 px
b = -0.062 px
c = 0.459 px

xc = 5.725 px
yc = 6.176 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 143641.831
Standard deviation: 21.63074
R^2: 0.98649
Parameters:
a = 114.26768
b = 1711.32850
c = 59.62334
d = 0.52497

Bead 2678

Date : Mon Oct 17 13:30:04 PDT 2022
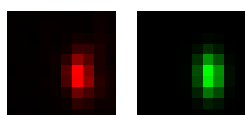Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 22.5 um (x), -42.1 um (y), 59.0 um (z)
Corresponding bead : Not found

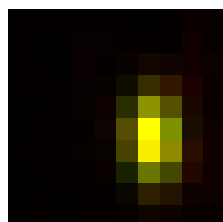| FWHM	Non corrected	Corrected	Theoretical
min	388 nm	401 nm	223 nm
max	653 nm	675 nm	223 nm
z	1.18 um	1.19 um	885 nm
Asymmetry	0.594		
Theta	-88.2°		

XY profile & fitting parameters :

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

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

Parameters:
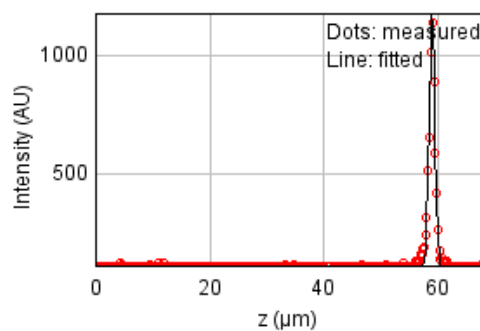 A = 1199.754   (brightness)
 B = 127.737   (background)
 a = 0.892 px
 b = -0.018 px
 c = 0.315 px

xc = 6.185 px
yc = 5.395 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 59641.8416
Standard deviation: 13.93819
R^2: 0.98685
Parameters:
 a = 114.92992
 b = 1180.55802
 c = 59.02352
 d = 0.50262

Bead 2679

Date : Mon Oct 17 13:30:04 PDT 2022
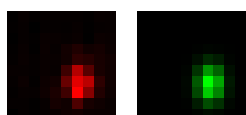Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -145 um (x), -42.5 um (y), 59.4 um (z)
Corresponding bead : Not found

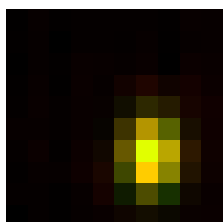| FWHM	Non corrected	Corrected	Theoretical
min	423 nm	438 nm	223 nm
max	592 nm	612 nm	223 nm
z	1.48 um	1.48 um	885 nm
Asymmetry	0.715		
Theta	88.8°		

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 = 0.958

Parameters:
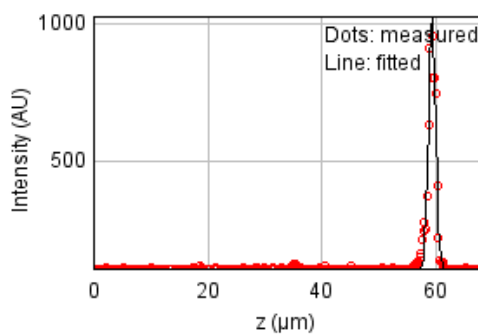A = 854.407   (brightness)
B = 117.927   (background)
a = 0.748 px
b = 0.007 px
c = 0.383 px

xc = 6.210 px
yc = 6.202 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 160815.623
Standard deviation: 22.88732
R^2: 0.96189
Parameters:
 a = 112.49738
 b = 1023.87501
 c = 59.37462
 d = 0.62710

Bead 2680

Date : Mon Oct 17 13:30:04 PDT 2022
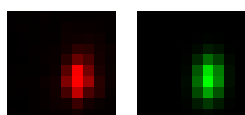Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -112 um (x), -74.7 um (y), 59.2 um (z)
Corresponding bead : Not found

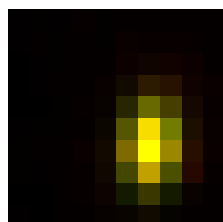| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	434 nm	223 nm
max	667 nm	689 nm	223 nm
z	1.51 um	1.51 um	885 nm
Asymmetry	0.629		
Theta	86.1°		

XY profile & fitting parameters :

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

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

Parameters:
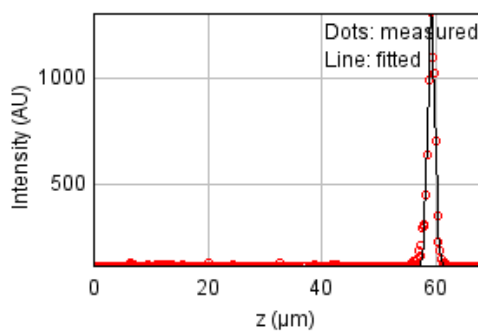 A = 1292.088   (brightness)
 B = 124.060   (background)
 a = 0.760 px
 b = 0.031 px
 c = 0.304 px

xc = 6.089 px
yc = 5.727 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 160400.029
Standard deviation: 22.85773
R^2: 0.97805
Parameters:
 a = 113.62213
 b = 1310.51284
 c = 59.24635
 d = 0.64071

Bead 2681

Date : Mon Oct 17 13:30:04 PDT 2022
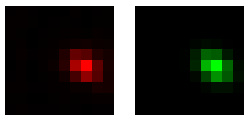Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 163 um (x), -91.1 um (y), 60.0 um (z)
Corresponding bead : Not found

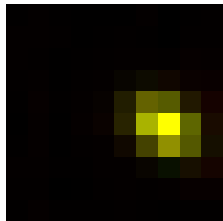| FWHM	Non corrected	Corrected	Theoretical
min	377 nm	390 nm	223 nm
max	523 nm	540 nm	223 nm
z	2.99 um	3.0 um	885 nm
Asymmetry	0.721		
Theta	-34.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.991$

Parameters:
 A = 1148.714   (brightness)
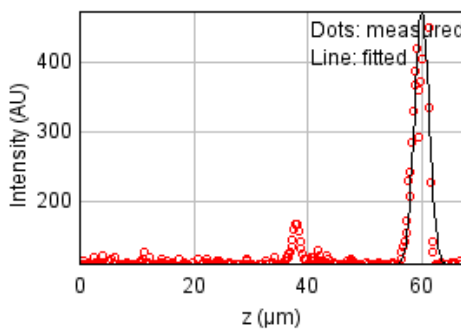 B = 117.733   (background)
 a = 0.636 px
 b = -0.212 px
 c = 0.800 px

xc = 6.811 px
yc = 5.092 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 166674.045
Standard deviation: 23.30048
R^2: 0.88241
Parameters:
 a = 111.38973
 b = 473.25159
 c = 60.01711
 d = 1.26995

Bead 2682

Date : Mon Oct 17 13:30:04 PDT 2022
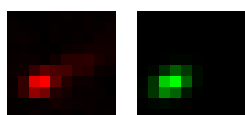Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 161 um (x), 94.4 um (y), 33.4 um (z)
Corresponding bead : Not found

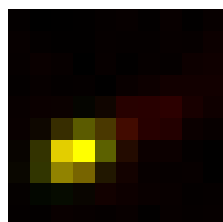| FWHM	Non corrected	Corrected	Theoretical
min	349 nm	361 nm	223 nm
max	531 nm	549 nm	223 nm
z	1.57 um	1.57 um	885 nm
Asymmetry	0.657		
Theta	25.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 669.496   (brightness)
 B = 124.737   (background)
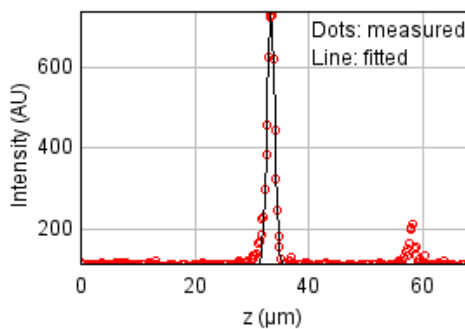 a = 0.591 px
 b = 0.243 px
 c = 0.985 px

xc = 2.636 px
yc = 6.114 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 76034.4346
Standard deviation: 15.73751
R^2: 0.96356
Parameters:
 a = 113.52925
 b = 736.73763
 c = 33.40179
 d = 0.66571

Bead 2683

Date : Mon Oct 17 13:30:04 PDT 2022
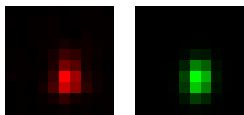Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -117 um (x), 92.1 um (y), 59.5 um (z)
Corresponding bead : Not found

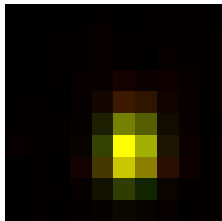| FWHM	Non corrected	Corrected	Theoretical
min	392 nm	406 nm	223 nm
max	535 nm	553 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.734		
Theta	85.0°		

XY profile & fitting parameters :

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

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

Parameters:
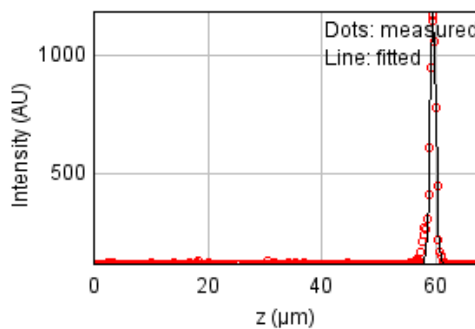 A = 1096.699   (brightness)
 B = 124.486   (background)
 a = 0.869 px
 b = 0.035 px
 c = 0.473 px

xc = 5.272 px
yc = 6.213 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 91593.5887
Standard deviation: 17.27282
R^2: 0.98074
Parameters:
 a = 113.08237
 b = 1199.42545
 c = 59.53910
 d = 0.50379

Bead 2684

Date : Mon Oct 17 13:30:04 PDT 2022
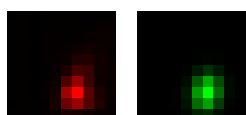Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 40.9 um (x), 81.8 um (y), 60.0 um (z)
Corresponding bead : Not found

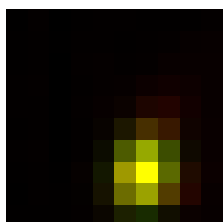| FWHM	Non corrected	Corrected	Theoretical
min	434 nm	449 nm	223 nm
max	562 nm	581 nm	223 nm
z	1.13 um	1.13 um	885 nm
Asymmetry	0.772		
Theta	79.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.959$

Parameters:
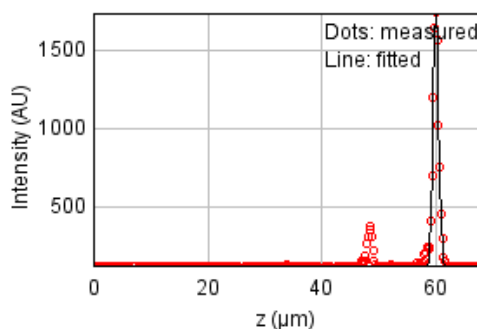 A = 1565.734   (brightness)
 B = 130.715   (background)
 a = 0.702 px
 b = 0.052 px
 c = 0.434 px

xc = 5.867 px
yc = 6.990 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 345480.809
Standard deviation: 33.54616
R^2: 0.96584
Parameters:
 a = 121.58761
 b = 1733.57869
 c = 60.04650
 d = 0.47859

Bead 2685

Date : Mon Oct 17 13:30:04 PDT 2022
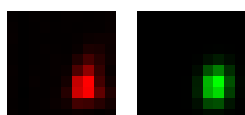Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 8.29 um (x), 60.2 um (y), 59.8 um (z)
Corresponding bead : Not found

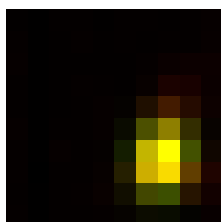| FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	567 nm	587 nm	223 nm
z	1.13 um	1.13 um	885 nm
Asymmetry	0.742		
Theta	80.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1392.575   (brightness)
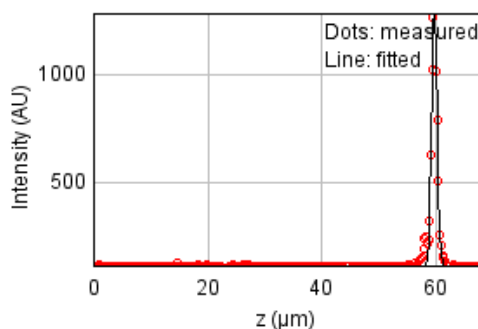 B = 122.519   (background)
 a = 0.748 px
 b = 0.058 px
 c = 0.427 px

xc = 6.704 px
yc = 6.356 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 85085.5804
Standard deviation: 16.64787
R^2: 0.98391
Parameters:
 a = 115.27105
 b = 1291.69063
 c = 59.76831
 d = 0.47848

Bead 2686

Date : Mon Oct 17 13:30:04 PDT 2022
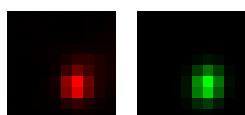Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 160 um (x), 33.4 um (y), 60.0 um (z)
Corresponding bead : Not found

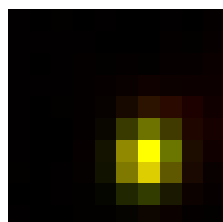| FWHM	Non corrected	Corrected	Theoretical
min	437 nm	452 nm	223 nm
max	519 nm	536 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.843		
Theta	78.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.973$

Parameters:
A = 1647.941   (brightness)
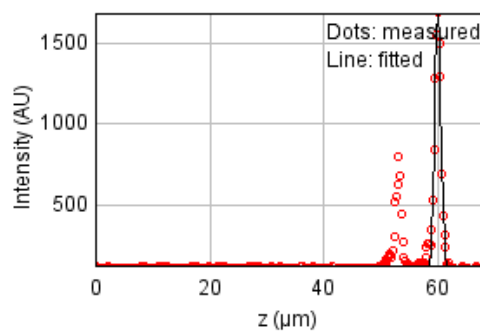B = 129.638   (background)
a = 0.694 px
b = 0.040 px
c = 0.507 px

xc = 5.925 px
yc = 6.291 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 1756007.90
Standard deviation: 75.62999
R^2: 0.85119
Parameters:
a = 127.96713
b = 1680.65840
c = 60.03470
d = 0.53192

Bead 2687

Date : Mon Oct 17 13:30:04 PDT 2022
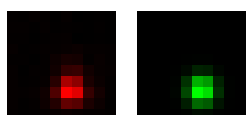Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

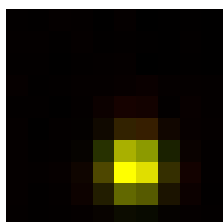Coordinates : -141 um (x), 17.0 um (y), 59.8 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	435 nm	450 nm	223 nm
max	459 nm	475 nm	223 nm
z	1.31 um	1.31 um	885 nm
Asymmetry	0.947		
Theta	87.2°		

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 = 0.986

Parameters:
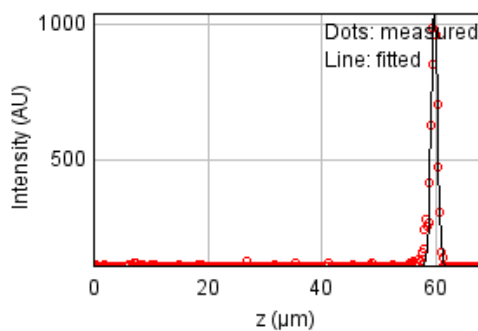A = 1064.127   (brightness)
B = 117.830   (background)
a = 0.709 px
b = 0.004 px
c = 0.636 px

xc = 5.401 px
yc = 6.792 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 71961.7794
Standard deviation: 15.31023
R^2: 0.98129
Parameters:
 a = 113.08792
 b = 1045.04531
 c = 59.76331
 d = 0.55553

Bead 2688

Date : Mon Oct 17 13:30:05 PDT 2022
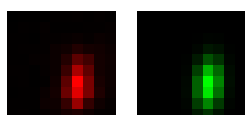Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -152 um (x), 3.24 um (y), 59.8 um (z)
Corresponding bead : Not found

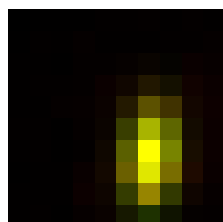| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	418 nm	223 nm
max	778 nm	804 nm	223 nm
z	1.25 um	1.25 um	885 nm
Asymmetry	0.519		
Theta	85.5°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.984$

   Parameters:
   A = 1371.606   (brightness)
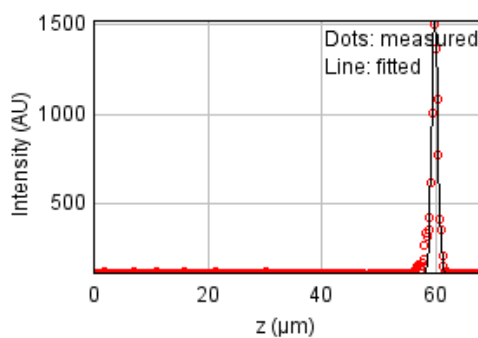   B = 130.767   (background)
   a = 0.819 px
   b = 0.047 px
   c = 0.226 px

   xc = 6.081 px
   yc = 6.258 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 210189.960
Standard deviation: 26.16597
R^2: 0.97502
Parameters:
 a = 115.29209
 b = 1522.33995
 c = 59.84316
 d = 0.52896

Bead 2689

Date : Mon Oct 17 13:30:05 PDT 2022
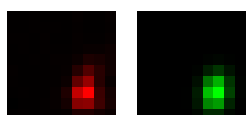Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 14.7 um (x), -215 nm (y), 59.8 um (z)
Corresponding bead : Not found

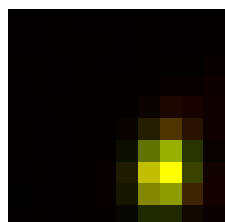| FWHM	Non corrected	Corrected	Theoretical
min	400 nm	413 nm	223 nm
max	566 nm	585 nm	223 nm
z	1.12 um	1.12 um	885 nm
Asymmetry	0.706		
Theta	80.1°		

XY profile & fitting parameters :

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

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

Parameters:
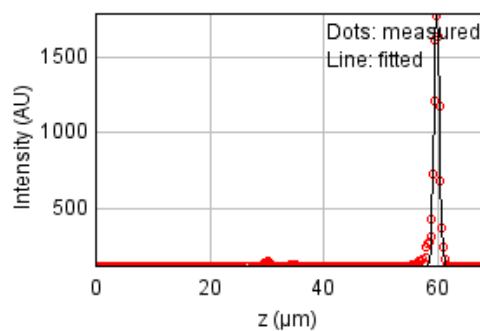A = 1716.397   (brightness)
B = 126.845   (background)
a = 0.827 px
b = 0.071 px
c = 0.431 px

xc = 6.680 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: 104333.299
Standard deviation: 18.43496
R^2: 0.99006
Parameters:
a = 117.52604
b = 1787.50210
c = 59.82882
d = 0.47447

Bead 2690

Date : Mon Oct 17 13:30:05 PDT 2022
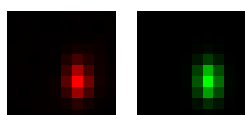Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -126 um (x), -8.34 um (y), 59.7 um (z)
Corresponding bead : Not found

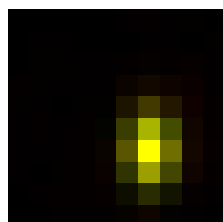| FWHM	Non corrected	Corrected	Theoretical
min	372 nm	385 nm	223 nm
max	572 nm	591 nm	223 nm
z	1.17 um	1.17 um	885 nm
Asymmetry	0.651		
Theta	-88.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.990$

Parameters:
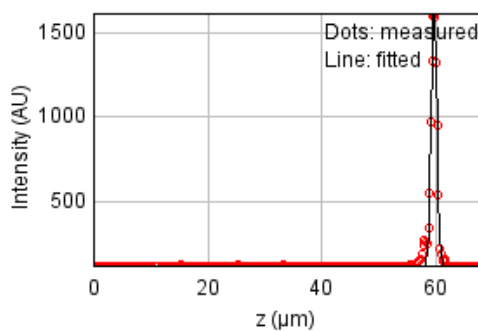 A = 1450.577   (brightness)
 B = 125.131   (background)
 a = 0.968 px
 b = -0.010 px
 c = 0.410 px

xc = 6.066 px
yc = 5.920 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 99780.3586
Standard deviation: 18.02824
R^2: 0.98916
Parameters:
 a = 113.41172
 b = 1641.76168
 c = 59.71813
 d = 0.49663

Bead 2691

Date : Mon Oct 17 13:30:05 PDT 2022
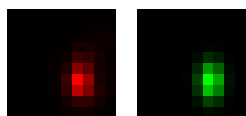Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 57.5 um (x), -20.5 um (y), 59.9 um (z)
Corresponding bead : Not found

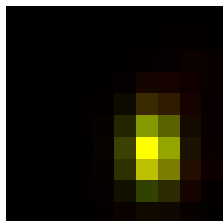| FWHM	Non corrected	Corrected	Theoretical
min	384 nm	397 nm	223 nm
max	581 nm	601 nm	223 nm
z	1.19 um	1.19 um	885 nm
Asymmetry	0.66		
Theta	-89.9°		

XY profile & fitting parameters :

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

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

Parameters:
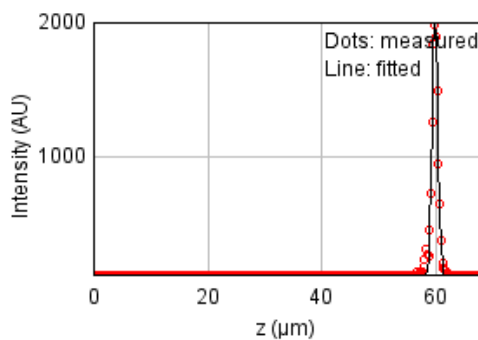 A = 1896.206   (brightness)
 B = 133.187   (background)
 a = 0.911 px
 b = -0.001 px
 c = 0.397 px

xc = 6.261 px
yc = 6.140 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 114411.013
Standard deviation: 19.30477
R^2: 0.99204
Parameters:
 a = 115.02713
 b = 2014.83070
 c = 59.88952
 d = 0.50391

Bead 2692

Date : Mon Oct 17 13:30:05 PDT 2022
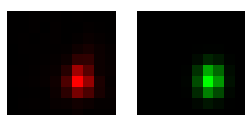Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -152 um (x), -34.1 um (y), 59.8 um (z)
Corresponding bead : Not found

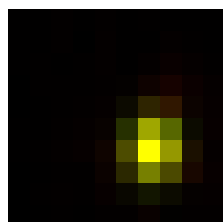| FWHM	Non corrected	Corrected	Theoretical
min	393 nm	406 nm	223 nm
max	490 nm	506 nm	223 nm
z	1.2 um	1.21 um	885 nm
Asymmetry	0.802		
Theta	86.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.983$

Parameters:
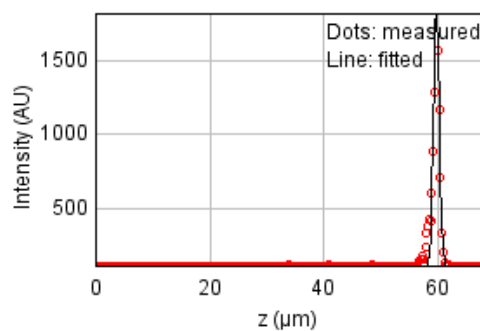 A = 1728.625   (brightness)
 B = 126.204   (background)
 a = 0.867 px
 b = 0.019 px
 c = 0.560 px

xc = 6.203 px
yc = 5.874 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 268192.595
Standard deviation: 29.55658
R^2: 0.97767
Parameters:
 a = 114.14120
 b = 1825.54651
 c = 59.77240
 d = 0.51133

Bead 2693

Date : Mon Oct 17 13:30:05 PDT 2022
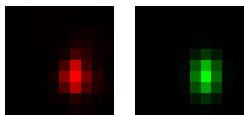Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -53.5 um (x), -90.0 um (y), 59.7 um (z)
Corresponding bead : Not found

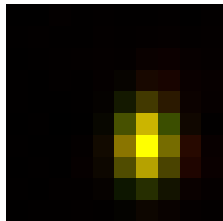| FWHM	Non corrected	Corrected	Theoretical
min	405 nm	418 nm	223 nm
max	578 nm	597 nm	223 nm
z	1.31 um	1.32 um	885 nm
Asymmetry	0.7		
Theta	88.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.975$

Parameters:
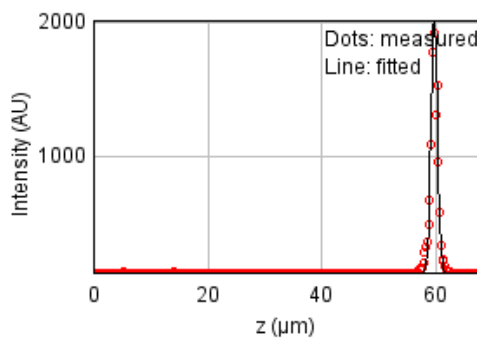A = 1893.543   (brightness)
B = 130.057   (background)
a = 0.819 px
b = 0.010 px
c = 0.402 px

xc = 5.976 px
yc = 5.931 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 532479.593
Standard deviation: 41.64686
R^2: 0.96832
Parameters:
a = 115.77627
b = 2046.41569
c = 59.74666
d = 0.55829

Bead 2694

Date : Mon Oct 17 13:30:05 PDT 2022
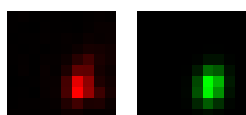Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 68.3 um (x), 69.7 um (y), 60.0 um (z)
Corresponding bead : Not found

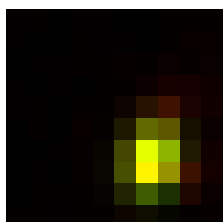| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	415 nm	223 nm
max	549 nm	568 nm	223 nm
z	1.47 um	1.48 um	885 nm
Asymmetry	0.732		
Theta	77.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.946$

Parameters:
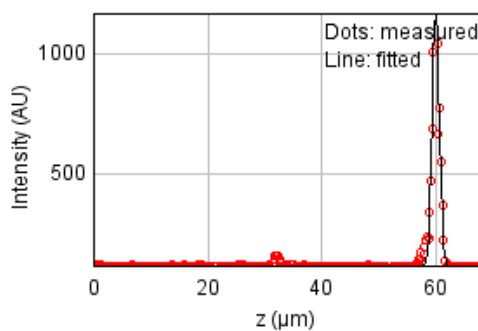 A = 1192.630   (brightness)
 B = 127.632   (background)
 a = 0.812 px
 b = 0.083 px
 c = 0.464 px

xc = 6.246 px
yc = 6.405 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 150078.485
Standard deviation: 22.11007
R^2: 0.97288
Parameters:
 a = 115.01697
 b = 1165.48303
 c = 60.02332
 d = 0.62619

Bead 2695

Date : Mon Oct 17 13:30:05 PDT 2022
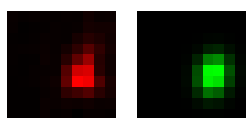Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -11.3 um (x), 65.5 um (y), 59.8 um (z)
Corresponding bead : Not found

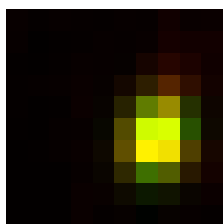| FWHM	Non corrected	Corrected	Theoretical
min	472 nm	488 nm	223 nm
max	610 nm	630 nm	223 nm
z	1.45 um	1.46 um	885 nm
Asymmetry	0.773		
Theta	78.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.939$

Parameters:
A = 868.931   (brightness)
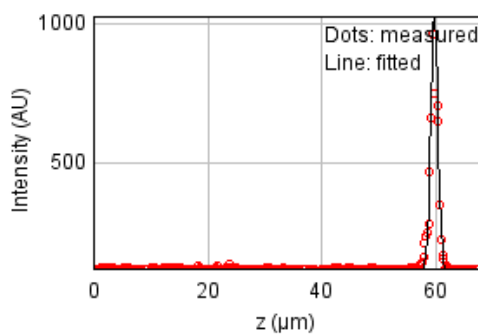B = 124.416   (background)
a = 0.594 px
b = 0.047 px
c = 0.370 px

xc = 6.486 px
yc = 5.386 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 172090.966
Standard deviation: 23.67608
R^2: 0.95939
Parameters:
 a = 113.52161
 b = 1033.03482
 c = 59.76911
 d = 0.61673

Bead 2696

Date : Mon Oct 17 13:30:05 PDT 2022
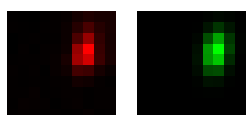Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -26.0 um (x), 62.2 um (y), 59.8 um (z)
Corresponding bead : Not found

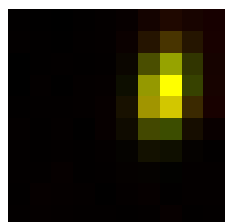| FWHM	Non corrected	Corrected	Theoretical
min	374 nm	387 nm	223 nm
max	638 nm	660 nm	223 nm
z	1.08 um	1.08 um	885 nm
Asymmetry	0.586		
Theta	79.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 1609.561   (brightness)
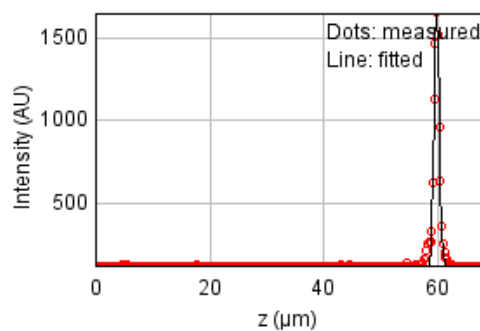 B = 140.306   (background)
 a = 0.937 px
 b = 0.113 px
 c = 0.350 px

xc = 6.746 px
yc = 3.222 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 102272.259
Standard deviation: 18.25197
R^2: 0.98806
Parameters:
 a = 115.76794
 b = 1649.03762
 c = 59.82832
 d = 0.45785

Bead 2697

Date : Mon Oct 17 13:30:05 PDT 2022
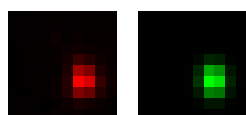Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -99.8 um (x), 38.1 um (y), 59.8 um (z)
Corresponding bead : Not found

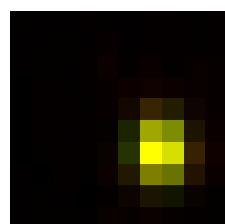| FWHM	Non corrected	Corrected	Theoretical
min	392 nm	405 nm	223 nm
max	490 nm	506 nm	223 nm
z	1.25 um	1.26 um	885 nm
Asymmetry	0.8		
Theta	-86.4°		

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 = 0.986

Parameters:
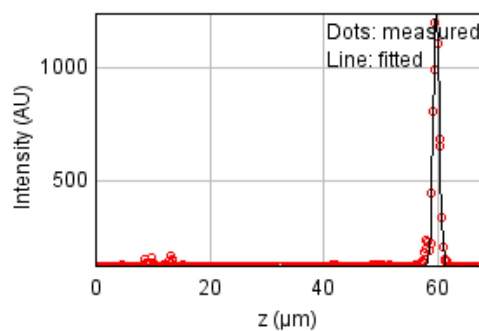A = 1308.826   (brightness)
B = 122.622   (background)
a = 0.873 px
b = -0.020 px
c = 0.561 px

xc = 6.420 px
yc = 5.894 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 115535.794
Standard deviation: 19.39944
R^2: 0.97915
Parameters:
a = 116.06242
b = 1258.09013
c = 59.75850
d = 0.53103

Bead 2698

Date : Mon Oct 17 13:30:05 PDT 2022
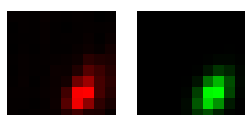Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 155 um (x), 31.2 um (y), 60.0 um (z)
Corresponding bead : Not found

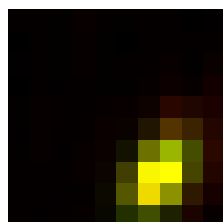| FWHM	Non corrected	Corrected	Theoretical
min	408 nm	421 nm	223 nm
max	652 nm	674 nm	223 nm
z	1.3 um	1.31 um	885 nm
Asymmetry	0.625		
Theta	58.1°		

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 = 0.965

Parameters:
A = 1090.939   (brightness)
B = 120.328   (background)
a = 0.671 px
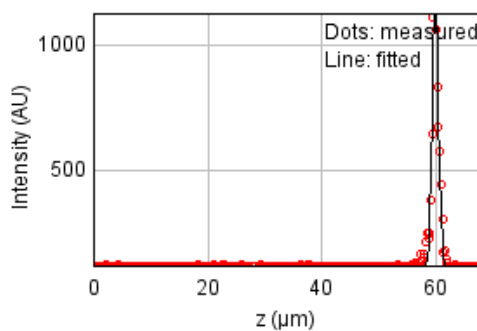b = 0.221 px
c = 0.453 px

xc = 6.484 px
yc = 7.127 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 176559.503
Standard deviation: 23.98150
R^2: 0.96327
Parameters:
 a = 112.25824
 b = 1145.90429
 c = 59.95436
 d = 0.55399

Bead 2699

Date : Mon Oct 17 13:30:05 PDT 2022
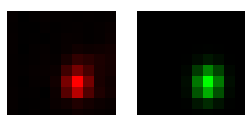Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : 141 um (x), 26.4 um (y), 59.8 um (z)
Corresponding bead : Not found

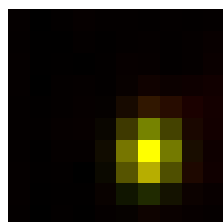| FWHM	Non corrected	Corrected	Theoretical
min	421 nm	435 nm	223 nm
max	507 nm	524 nm	223 nm
z	1.26 um	1.27 um	885 nm
Asymmetry	0.83		
Theta	84.0°		

XY profile & fitting parameters :

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

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

   $R^2 = 0.973$

Parameters:
 A = 979.778   (brightness)
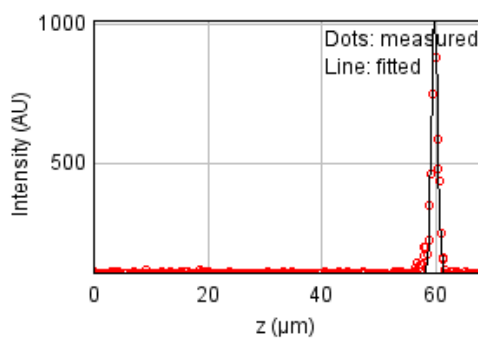 B = 125.880   (background)
 a = 0.756 px
 b = 0.024 px
 c = 0.525 px

xc = 6.008 px
yc = 6.134 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 149917.262
Standard deviation: 22.09819
R^2: 0.95771
Parameters:
 a = 111.64423
 b = 1011.40446
 c = 59.81108
 d = 0.53558

Bead 2700

Date : Mon Oct 17 13:30:05 PDT 2022
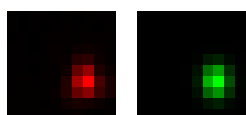Origin : data_traditional.tif (Nikon 40x1.15 water)
Frame size : 10 pixels

Coordinates : -98.8 um (x), -54.3 um (y), 60.2 um (z)
Corresponding bead : Not found

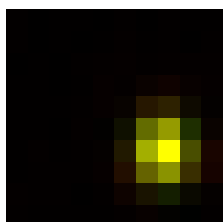| FWHM	Non corrected	Corrected	Theoretical
min	414 nm	428 nm	223 nm
max	505 nm	522 nm	223 nm
z	1.07 um	1.07 um	885 nm
Asymmetry	0.819		
Theta	-87.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.984$

  Parameters:
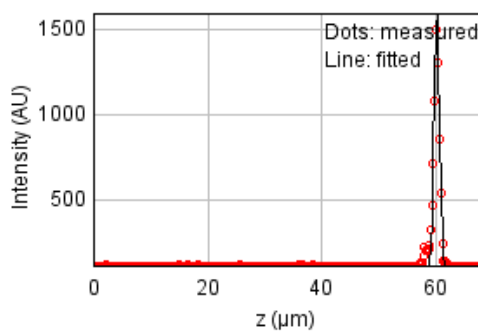 A = 1599.498   (brightness)
  B = 124.781   (background)
  a = 0.784 px
  b = -0.010 px
  c = 0.526 px

xc = 6.743 px
yc = 5.971 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 110574.709
Standard deviation: 18.97836
R^2: 0.98633
Parameters:
 a = 115.39739
 b = 1612.19634
 c = 60.21314
 d = 0.45259