## Bead 2501

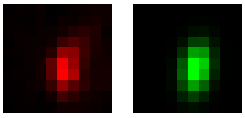
Date : Mon Oct 17 13:29:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

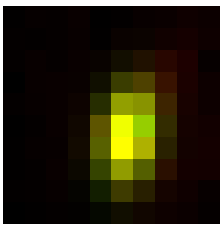
Coordinates : 98.6 um (x), 13.3 um (y), 54.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 447 nm | 462 nm | 223 nm |
| **max** | 764 nm | 790 nm | 223 nm |
| **z** | 1.38 um | 1.39 um | 885 nm |
| **Asymmetry** | 0.585 | | |
| **Theta** | 80.7° | | |

### XY profile & fitting parameters :

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

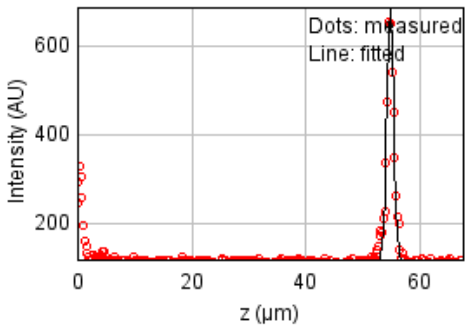




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.960

Parameters:
A = 691.916 (brightness)
B = 125.795 (background)
a = 0.661 px
b = 0.070 px
c = 0.241 px
xc = 5.293 px
yc = 5.402 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 211067.807
Standard deviation: 26.22055
R^2: 0.87815
Parameters:
a = 117.54114
b = 693.38227
c = 54.86082
d = 0.58746

## Bead 2502

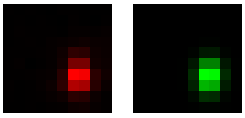
Date : Mon Oct 17 13:29:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

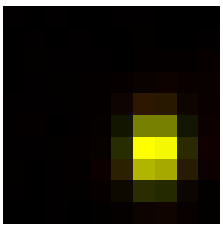
Coordinates : -138 um (x), 6.57 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 402 nm | 223 nm |
| **max** | 509 nm | 526 nm | 223 nm |
| **z** | 1.19 um | 1.19 um | 885 nm |
| **Asymmetry** | 0.764 | | |
| **Theta** | 87.5° | | |

### XY profile & fitting parameters :

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

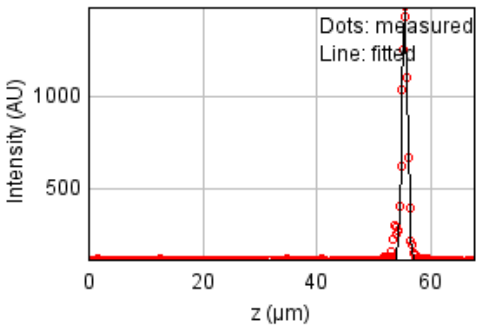




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.989

Parameters:
A = 1671.664 (brightness)
B = 126.248 (background)
a = 0.886 px
b = 0.016 px
c = 0.518 px
xc = 6.479 px
yc = 6.152 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 126757.118
Standard deviation: 20.31969
R^2: 0.98335
Parameters:
a = 113.52303
b = 1487.86948
c = 55.45982
d = 0.50520

## Bead 2503

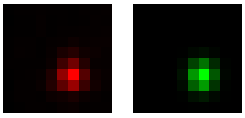
Date : Mon Oct 17 13:29:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

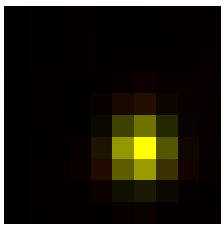
Coordinates : -151 um (x), 4.81 um (y), 55.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 409 nm | 423 nm | 223 nm |
| **max** | 453 nm | 468 nm | 223 nm |
| **z** | 1.23 um | 1.23 um | 885 nm |
| **Asymmetry** | 0.903 | | |
| **Theta** | 84.8° | | |

### XY profile & fitting parameters :

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

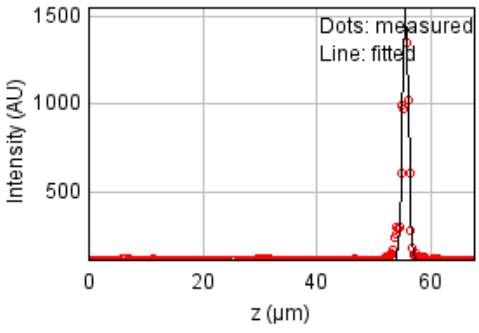




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.987

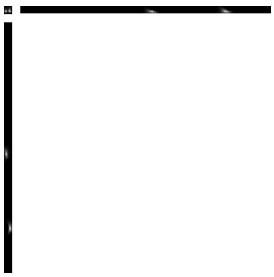
Parameters:
A = 1511.342 (brightness)
B = 125.594 (background)
a = 0.801 px
b = 0.013 px
c = 0.655 px
xc = 5.825 px
yc = 6.120 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 220338.024
Standard deviation: 26.79017
R^2: 0.97498
Parameters:
a = 114.93267
b = 1563.88615
c = 55.58132
d = 0.52182

## Bead 2504



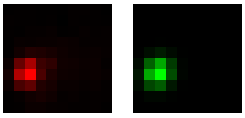
Date : Mon Oct 17 13:29:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

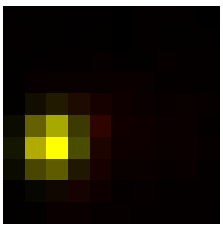
Coordinates : 104 um (x), 1.8 um (y), 35.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 397 nm | 411 nm | 223 nm |
| **max** | 442 nm | 457 nm | 223 nm |
| **z** | 1.4 um | 1.4 um | 885 nm |
| **Asymmetry** | 0.899 | | |
| **Theta** | 59.8° | | |

### XY profile & fitting parameters :

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

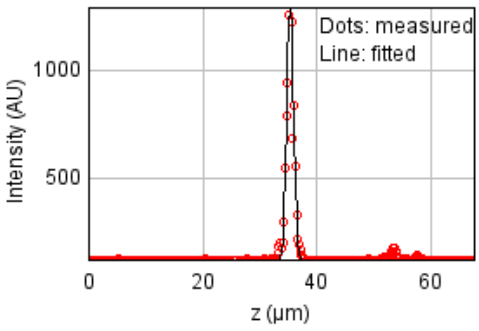




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.973

Parameters:
A = 1400.098 (brightness)
B = 132.980 (background)
a = 0.809 px
b = 0.071 px
c = 0.729 px
xc = 1.767 px
yc = 5.812 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 181579.381
Standard deviation: 24.32003
R^2: 0.97281
Parameters:
a = 114.83284
b = 1298.25647
c = 35.39553
d = 0.59416

## Bead 2505

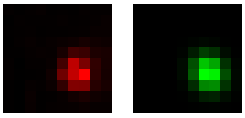
Date : Mon Oct 17 13:29:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

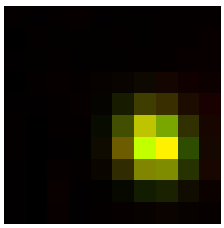
Coordinates : 147 um (x), 915 nm (y), 55.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 487 nm | 504 nm | 223 nm |
| **max** | 559 nm | 578 nm | 223 nm |
| **z** | 1.57 um | 1.58 um | 885 nm |
| **Asymmetry** | 0.871 | | |
| **Theta** | -64.5° | | |

### XY profile & fitting parameters :

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

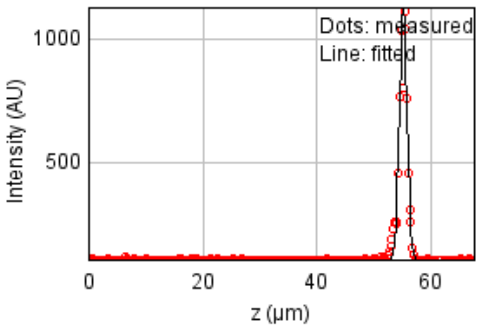




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.959

Parameters:
A = 910.986 (brightness)
B = 116.787 (background)
a = 0.541 px
b = -0.053 px
c = 0.455 px
xc = 6.428 px
yc = 5.839 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 216763.615
Standard deviation: 26.57199
R^2: 0.96085
Parameters:
a = 110.59975
b = 1123.01642
c = 55.20910
d = 0.66746

## Bead 2506

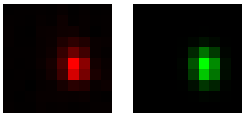
Date : Mon Oct 17 13:29:49 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

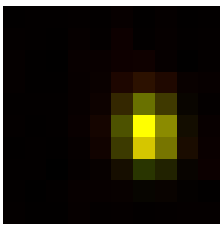
Coordinates : -135 um (x), 87.1 um (y), 55.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 390 nm | 403 nm | 223 nm |
| **max** | 503 nm | 520 nm | 223 nm |
| **z** | 1.19 um | 1.19 um | 885 nm |
| **Asymmetry** | 0.775 | | |
| **Theta** | -83.2° | | |

### XY profile & fitting parameters :

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

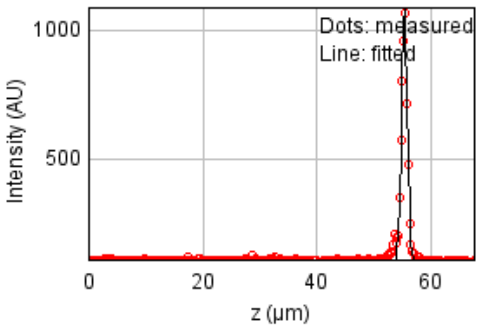




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.981

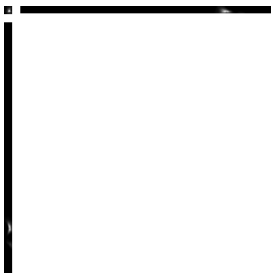
Parameters:
A = 1008.558 (brightness)
B = 122.087 (background)
a = 0.878 px
b = -0.042 px
c = 0.535 px
xc = 6.164 px
yc = 5.274 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 53276.9864
Standard deviation: 13.17348
R^2: 0.98600
Parameters:
a = 112.39585
b = 1086.80086
c = 55.41167
d = 0.50378

## Bead 2507



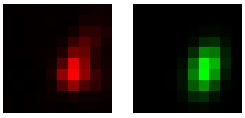
Date : Mon Oct 17 13:29:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

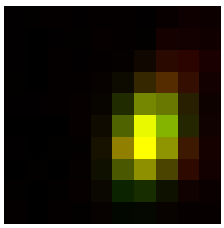
Coordinates : 103 um (x), 71.6 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 454 nm | 469 nm | 223 nm |
| **max** | 712 nm | 737 nm | 223 nm |
| **z** | 1.55 um | 1.55 um | 885 nm |
| **Asymmetry** | 0.637 | | |
| **Theta** | 73.2° | | |

### XY profile & fitting parameters :

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

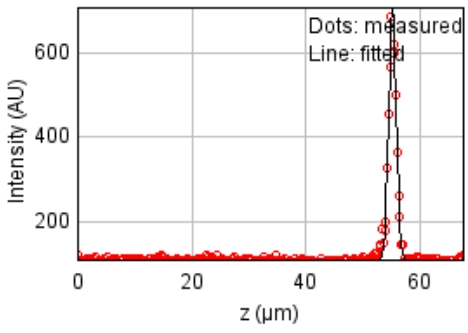




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.936

Parameters:
A = 677.408 (brightness)
B = 119.870 (background)
a = 0.619 px
b = 0.107 px
c = 0.297 px
xc = 6.155 px
yc = 5.486 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 26855.3071
Standard deviation: 9.35289
R^2: 0.98532
Parameters:
a = 111.33213
b = 705.17066
c = 55.25038
d = 0.65706

## Bead 2508

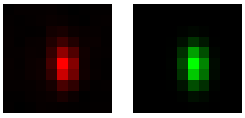
Date : Mon Oct 17 13:29:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

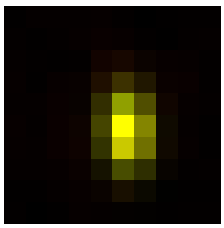
Coordinates : -106 um (x), 43.7 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 370 nm | 382 nm | 223 nm |
| **max** | 615 nm | 636 nm | 223 nm |
| **z** | 1.14 um | 1.15 um | 885 nm |
| **Asymmetry** | 0.601 | | |
| **Theta** | -87.0° | | |

### XY profile & fitting parameters :

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

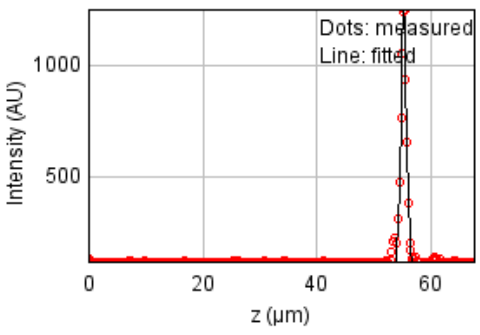




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.991

Parameters:
A = 1143.997 (brightness)
B = 123.073 (background)
a = 0.979 px
b = -0.033 px
c = 0.356 px
xc = 5.173 px
yc = 5.175 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 52140.0409
Standard deviation: 13.03216
R^2: 0.98978
Parameters:
a = 114.21649
b = 1265.38826
c = 55.28494
d = 0.48523

## Bead 2509

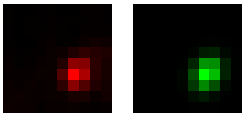
Date : Mon Oct 17 13:29:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

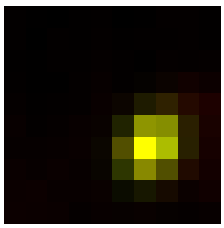
Coordinates : 129 um (x), 30.4 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 407 nm | 421 nm | 223 nm |
| **max** | 512 nm | 529 nm | 223 nm |
| **z** | 1.39 um | 1.4 um | 885 nm |
| **Asymmetry** | 0.795 | | |
| **Theta** | 60.8° | | |

### XY profile & fitting parameters :

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

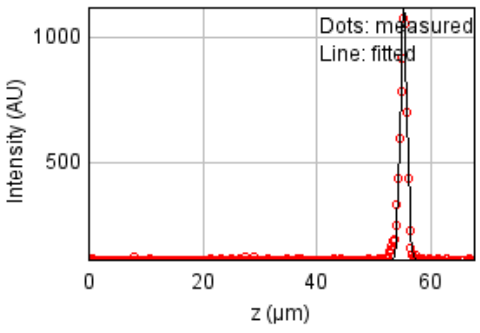




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

Parameters:
A = 982.196 (brightness)
B = 126.258 (background)
a = 0.739 px
b = 0.127 px
c = 0.583 px
xc = 6.314 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: 85331.0749
Standard deviation: 16.67187
R^2: 0.98228
Parameters:
a = 111.97839
b = 1123.99909
c = 55.27845
d = 0.59169

## Bead 2510

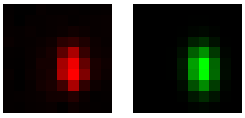
Date : Mon Oct 17 13:29:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : -148 um (x), 21.9 um (y), 55.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 437 nm | 452 nm | 223 nm |
| **max** | 677 nm | 700 nm | 223 nm |
| **z** | 1.42 um | 1.42 um | 885 nm |
| **Asymmetry** | 0.645 | | |
| **Theta** | -87.1° | | |

### XY profile & fitting parameters :

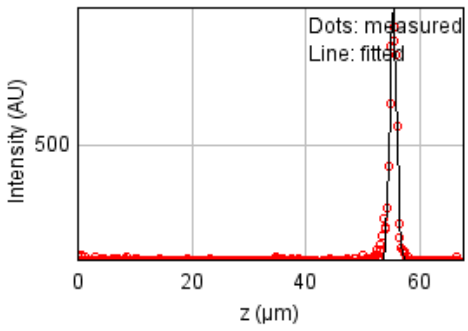
(red : the orignal data, green : the fit, yellow : the two merged)



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

Parameters:
A = 869.770 (brightness)
B = 117.889 (background)
a = 0.701 px
b = -0.021 px
c = 0.293 px
xc = 5.850 px
yc = 5.465 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 90323.8660
Standard deviation: 17.15268
R^2: 0.97425
Parameters:
a = 112.67865
b = 965.98013
c = 55.36991
d = 0.60150

## Bead 2511

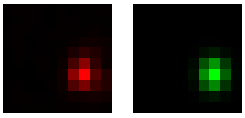
Date : Mon Oct 17 13:29:50 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

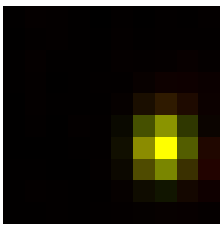
Coordinates : 69.7 um (x), 7.05 um (y), 55.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 407 nm | 421 nm | 223 nm |
| **max** | 475 nm | 491 nm | 223 nm |
| **z** | 1.15 um | 1.16 um | 885 nm |
| **Asymmetry** | 0.857 | | |
| **Theta** | 87.3° | | |

### XY profile & fitting parameters :

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

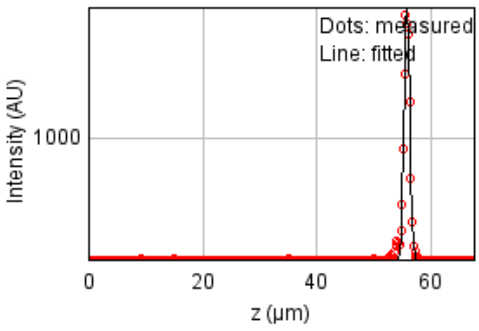




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

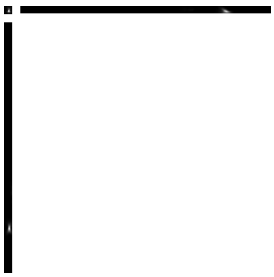
Parameters:
A = 1672.822 (brightness)
B = 127.855 (background)
a = 0.808 px
b = 0.010 px
c = 0.595 px
xc = 6.872 px
yc = 5.961 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 96543.0041
Standard deviation: 17.73337
R^2: 0.99268
Parameters:
a = 115.96238
b = 1960.50300
c = 55.82934
d = 0.49027

## Bead 2512



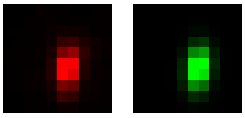
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

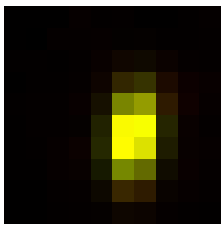
Coordinates : -89.7 um (x), 2.11 um (y), 55.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 368 nm | 381 nm | 223 nm |
| **max** | 663 nm | 685 nm | 223 nm |
| **z** | 1.08 um | 1.09 um | 885 nm |
| **Asymmetry** | 0.555 | | |
| **Theta** | 84.2° | | |

### XY profile & fitting parameters :

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

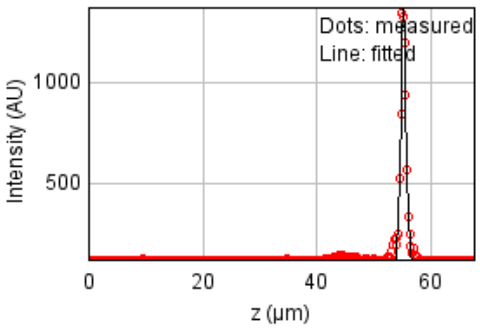




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.991

Parameters:
A = 1607.625 (brightness)
B = 128.341 (background)
a = 0.983 px
b = 0.069 px
c = 0.312 px
xc = 5.483 px
yc = 5.405 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 88149.0496
Standard deviation: 16.94492
R^2: 0.98467
Parameters:
a = 117.25777
b = 1368.71820
c = 55.22943
d = 0.45990

## Bead 2513

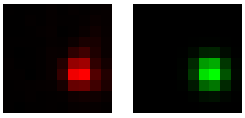
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

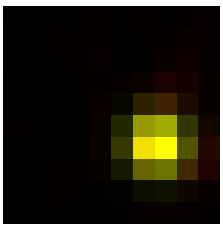
Coordinates : 55.1 um (x), -1.06 um (y), 55.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 460 nm | 476 nm | 223 nm |
| **max** | 480 nm | 496 nm | 223 nm |
| **z** | 1.1 um | 1.11 um | 885 nm |
| **Asymmetry** | 0.958 | | |
| **Theta** | -70.4° | | |

### XY profile & fitting parameters :

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

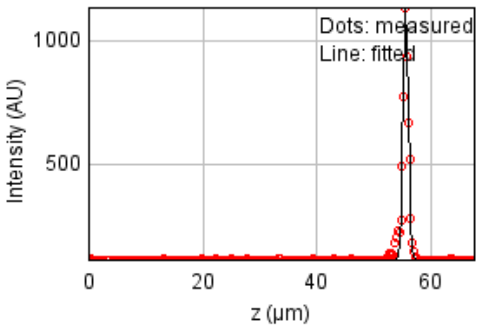




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 1160.795 (brightness)
B = 123.218 (background)
a = 0.628 px
b = -0.016 px
c = 0.588 px
xc = 6.600 px
yc = 5.831 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 71586.2466
Standard deviation: 15.27023
R^2: 0.98183
Parameters:
a = 114.17451
b = 1138.69870
c = 55.62509
d = 0.46905

## Bead 2514

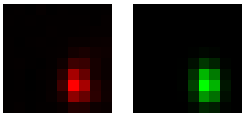
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

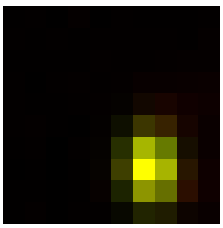
Coordinates : 10.4 um (x), -1.74 um (y), 55.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 391 nm | 404 nm | 223 nm |
| **max** | 554 nm | 572 nm | 223 nm |
| **z** | 1.34 um | 1.34 um | 885 nm |
| **Asymmetry** | 0.706 | | |
| **Theta** | -86.5° | | |

### XY profile & fitting parameters :

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

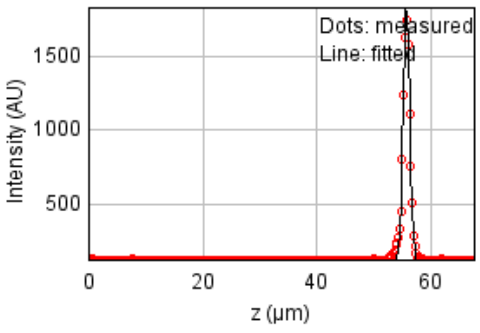




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.978

Parameters:
A = 1791.513 (brightness)
B = 131.182 (background)
a = 0.878 px
b = -0.027 px
c = 0.440 px
xc = 6.298 px
yc = 6.905 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 70829.7467
Standard deviation: 15.18933
R^2: 0.99473
Parameters:
a = 116.01491
b = 1850.41107
c = 55.74855
d = 0.56840

## Bead 2515

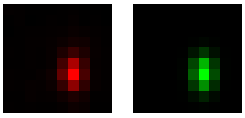
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

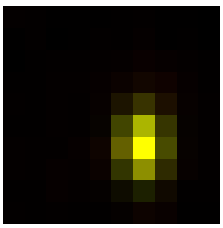
Coordinates : -91.5 um (x), -20.0 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 349 nm | 361 nm | 223 nm |
| **max** | 539 nm | 557 nm | 223 nm |
| **z** | 1.18 um | 1.18 um | 885 nm |
| **Asymmetry** | 0.648 | | |
| **Theta** | -89.6° | | |

### XY profile & fitting parameters :

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

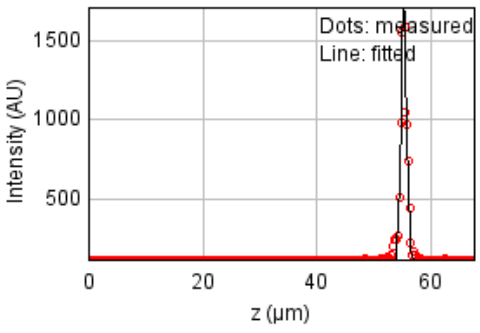




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.992

Parameters:
A = 1769.906 (brightness)
B = 128.459 (background)
a = 1.103 px
b = -0.004 px
c = 0.463 px
xc = 5.944 px
yc = 5.871 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 295440.068
Standard deviation: 31.02169
R^2: 0.97172
Parameters:
a = 114.28534
b = 1724.20701
c = 55.29953
d = 0.49910

## Bead 2516

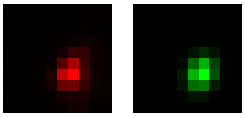
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

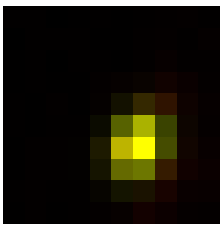
Coordinates : 1.26 um (x), -39.8 um (y), 55.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 400 nm | 413 nm | 223 nm |
| **max** | 512 nm | 529 nm | 223 nm |
| **z** | 1.19 um | 1.19 um | 885 nm |
| **Asymmetry** | 0.78 | | |
| **Theta** | 66.1° | | |

### XY profile & fitting parameters :

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

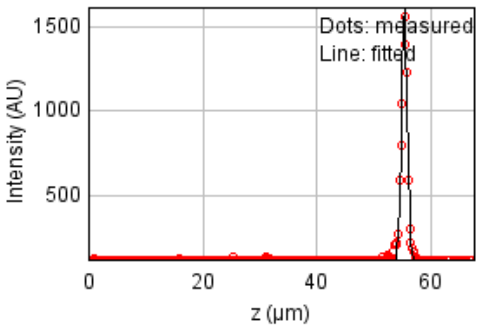




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.979

Parameters:
A = 1507.137 (brightness)
B = 126.946 (background)
a = 0.786 px
b = 0.122 px
c = 0.566 px
xc = 5.743 px
yc = 5.877 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 135039.833
Standard deviation: 20.97306
R^2: 0.98500
Parameters:
a = 115.26552
b = 1612.29577
c = 55.40306
d = 0.50427

## Bead 2517

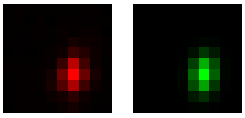
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

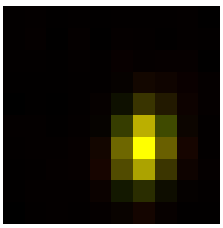
Coordinates : -88.2 um (x), -65.6 um (y), 55.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 374 nm | 387 nm | 223 nm |
| **max** | 574 nm | 593 nm | 223 nm |
| **z** | 1.19 um | 1.2 um | 885 nm |
| **Asymmetry** | 0.652 | | |
| **Theta** | 83.0° | | |

### XY profile & fitting parameters :

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

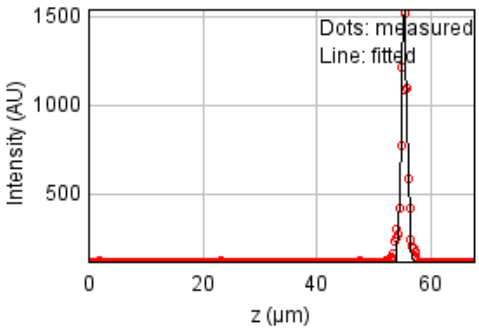




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.988

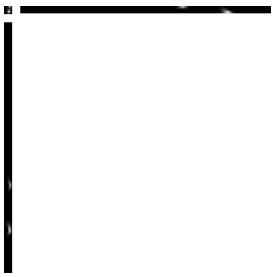
Parameters:
A = 1422.540 (brightness)
B = 123.735 (background)
a = 0.950 px
b = 0.067 px
c = 0.416 px
xc = 5.984 px
yc = 5.962 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 219252.545
Standard deviation: 26.72410
R^2: 0.97385
Parameters:
a = 116.10265
b = 1550.92389
c = 55.36315
d = 0.50571

## Bead 2518



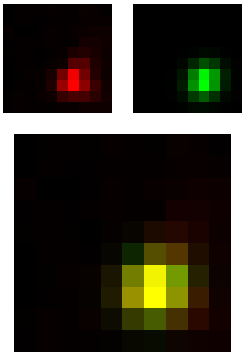
Date : Mon Oct 17 13:29:51 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : 110 um (x), 56.4 um (y), 56.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 474 nm | 490 nm | 223 nm |
| **max** | 519 nm | 536 nm | 223 nm |
| **z** | 1.42 um | 1.42 um | 885 nm |
| **Asymmetry** | 0.914 | | |
| **Theta** | 50.5° | | |

### XY profile & fitting parameters :

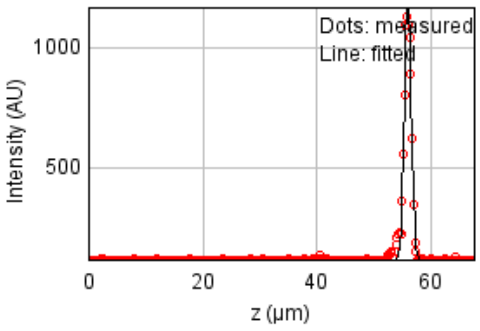
(red : the orignal data, green : the fit, yellow : the two merged)



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

Parameters:
A = 1041.191 (brightness)
B = 123.075 (background)
a = 0.557 px
b = 0.048 px
c = 0.539 px
xc = 6.047 px
yc = 6.546 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 66847.5939
Standard deviation: 14.75617
R^2: 0.98769
Parameters:
a = 112.50985
b = 1181.83831
c = 55.99460
d = 0.60105

## Bead 2519

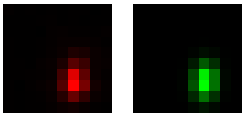
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

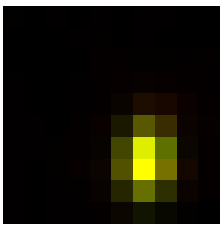
Coordinates : -66.9 um (x), 33.3 um (y), 55.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 369 nm | 381 nm | 223 nm |
| **max** | 546 nm | 564 nm | 223 nm |
| **z** | 1.23 um | 1.24 um | 885 nm |
| **Asymmetry** | 0.676 | | |
| **Theta** | 86.7° | | |

### XY profile & fitting parameters :

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

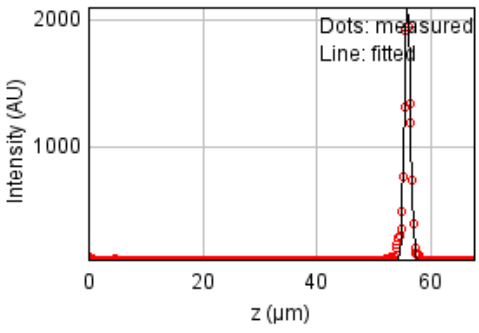




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.990

Parameters:
A = 2335.496 (brightness)
B = 129.330 (background)
a = 0.985 px
b = 0.031 px
c = 0.452 px
xc = 6.100 px
yc = 6.580 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 432070.674
Standard deviation: 37.51528
R^2: 0.97408
Parameters:
a = 117.41794
b = 2108.21196
c = 55.92422
d = 0.52279

## Bead 2520

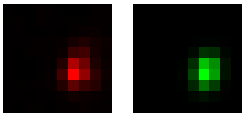
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

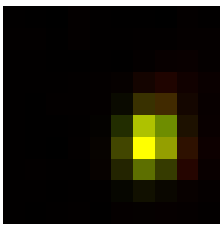
Coordinates : 4.02 um (x), 23.6 um (y), 55.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 385 nm | 398 nm | 223 nm |
| **max** | 501 nm | 518 nm | 223 nm |
| **z** | 1.35 um | 1.35 um | 885 nm |
| **Asymmetry** | 0.769 | | |
| **Theta** | 77.1° | | |

### XY profile & fitting parameters :

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

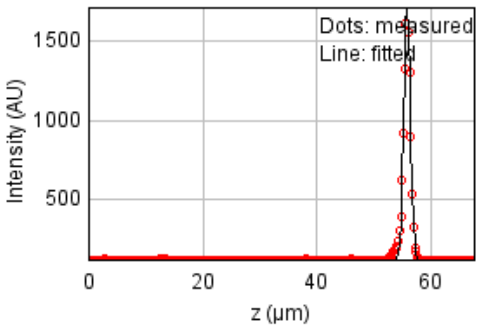




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.964

Parameters:
A = 1622.807 (brightness)
B = 130.891 (background)
a = 0.886 px
b = 0.080 px
c = 0.553 px
xc = 6.257 px
yc = 5.712 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 54778.9147
Standard deviation: 13.35788
R^2: 0.99520
Parameters:
a = 115.64531
b = 1710.45446
c = 55.85919
d = 0.57181

## Bead 2521

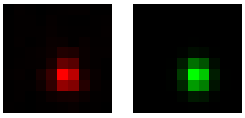
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

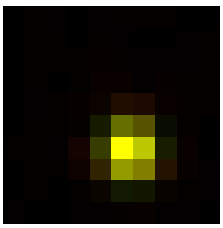
Coordinates : -115 um (x), 19.1 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 398 nm | 411 nm | 223 nm |
| **max** | 449 nm | 464 nm | 223 nm |
| **z** | 1.15 um | 1.16 um | 885 nm |
| **Asymmetry** | 0.887 | | |
| **Theta** | -83.4° | | |

### XY profile & fitting parameters :

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

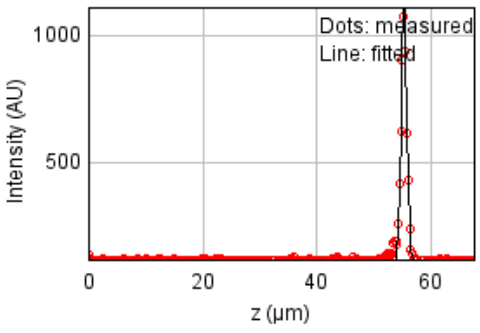




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.986

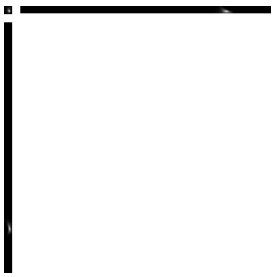
Parameters:
A = 1138.209 (brightness)
B = 120.077 (background)
a = 0.846 px
b = -0.021 px
c = 0.669 px
xc = 5.359 px
yc = 6.136 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 38133.2009
Standard deviation: 11.14506
R^2: 0.99057
Parameters:
a = 113.43392
b = 1133.77060
c = 55.33612
d = 0.49025

## Bead 2522



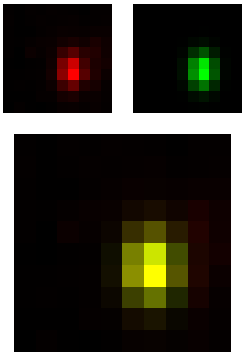
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : 133 um (x), 6.68 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 400 nm | 414 nm | 223 nm |
| **max** | 540 nm | 558 nm | 223 nm |
| **z** | 1.19 um | 1.19 um | 885 nm |
| **Asymmetry** | 0.741 | | |
| **Theta** | -89.9° | | |

### XY profile & fitting parameters :

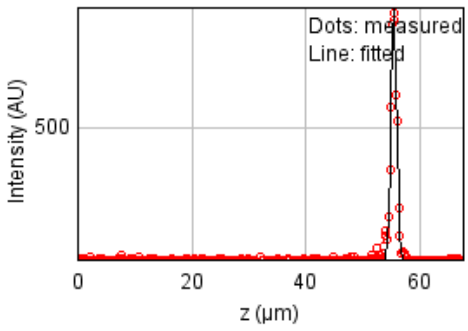
(red : the orignal data, green : the fit, yellow : the two merged)



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

Parameters:
A = 900.357 (brightness)
B = 125.048 (background)
a = 0.839 px
b = -0.000 px
c = 0.460 px
xc = 5.845 px
yc = 5.619 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39397.0830
Standard deviation: 11.32825
R^2: 0.98248
Parameters:
a = 111.77522
b = 858.76837
c = 55.48104
d = 0.50466

## Bead 2523

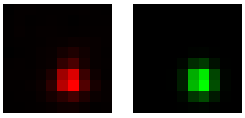
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

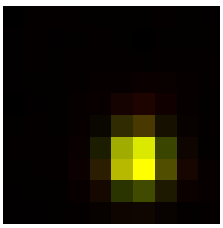
Coordinates : -46.5 um (x), -8.04 um (y), 55.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 420 nm | 435 nm | 223 nm |
| **max** | 452 nm | 467 nm | 223 nm |
| **z** | 1.16 um | 1.17 um | 885 nm |
| **Asymmetry** | 0.93 | | |
| **Theta** | -81.5° | | |

### XY profile & fitting parameters :

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

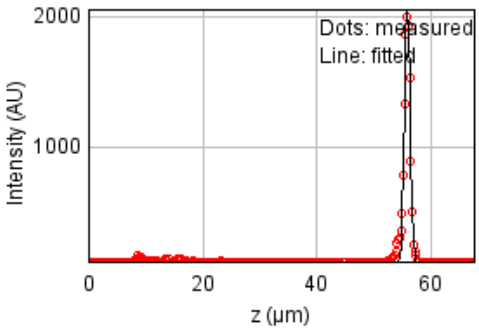




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.986

Parameters:
A = 2174.892 (brightness)
B = 128.705 (background)
a = 0.757 px
b = -0.015 px
c = 0.659 px
xc = 5.710 px
yc = 6.563 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 171032.950
Standard deviation: 23.60319
R^2: 0.98839
Parameters:
a = 120.32055
b = 2058.42782
c = 55.90332
d = 0.49389

## Bead 2524

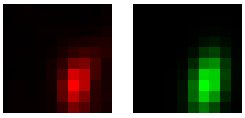
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

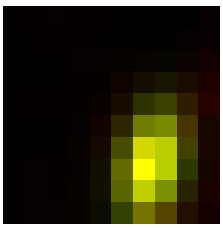
Coordinates : 5.35 um (x), -16.9 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 488 nm | 505 nm | 223 nm |
| **max** | 883 nm | 913 nm | 223 nm |
| **z** | 1.16 um | 1.17 um | 885 nm |
| **Asymmetry** | 0.553 | | |
| **Theta** | 78.2° | | |

### XY profile & fitting parameters :

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

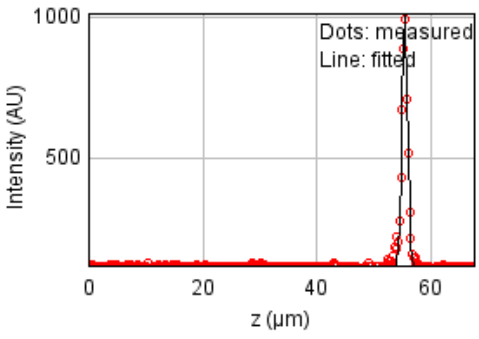




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.979

Parameters:
A = 1056.231 (brightness)
B = 128.403 (background)
a = 0.547 px
b = 0.078 px
c = 0.188 px
xc = 6.335 px
yc = 6.811 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39834.2898
Standard deviation: 11.39093
R^2: 0.98739
Parameters:
a = 116.96163
b = 1013.31065
c = 55.47475
d = 0.49456

## Bead 2525

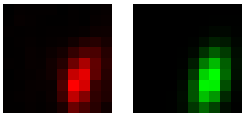
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

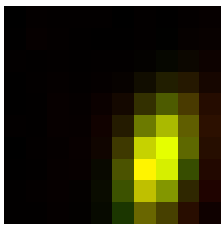
Coordinates : 70.7 um (x), -43.0 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 480 nm | 496 nm | 223 nm |
| **max** | 905 nm | 936 nm | 223 nm |
| **z** | 1.31 um | 1.31 um | 885 nm |
| **Asymmetry** | 0.53 | | |
| **Theta** | 74.0° | | |

### XY profile & fitting parameters :

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

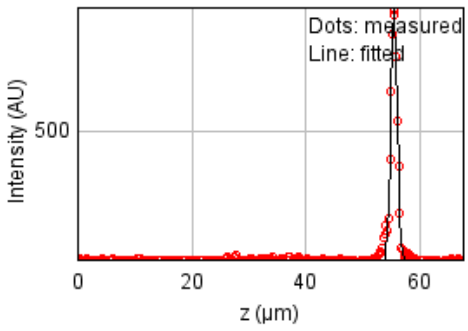




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 983.594 (brightness)
B = 123.233 (background)
a = 0.551 px
b = 0.111 px
c = 0.195 px
xc = 6.566 px
yc = 6.568 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36587.8615
Standard deviation: 10.91690
R^2: 0.98577
Parameters:
a = 113.85980
b = 878.31501
c = 55.51477
d = 0.55432

## Bead 2526

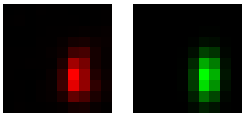
Date : Mon Oct 17 13:29:52 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

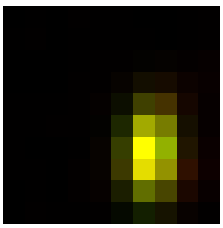
Coordinates : -20.6 um (x), -62.5 um (y), 55.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 388 nm | 401 nm | 223 nm |
| **max** | 696 nm | 720 nm | 223 nm |
| **z** | 955 nm | 959 nm | 885 nm |
| **Asymmetry** | 0.557 | | |
| **Theta** | 87.5° | | |

### XY profile & fitting parameters :

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

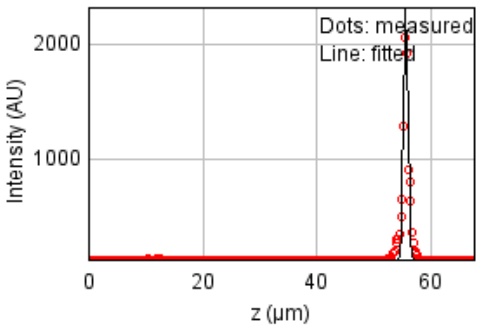




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.981

Parameters:
A = 2551.013 (brightness)
B = 133.422 (background)
a = 0.892 px
b = 0.026 px
c = 0.278 px
xc = 6.288 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: 599808.370
Standard deviation: 44.20151
R^2: 0.96271
Parameters:
a = 120.09541
b = 2320.85026
c = 55.63777
d = 0.40549

## Bead 2527

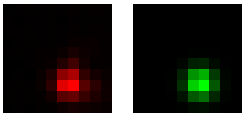
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

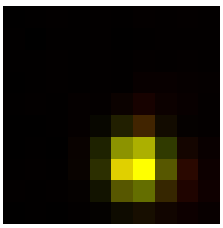
Coordinates : 37.1 um (x), -70.6 um (y), 55.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 456 nm | 471 nm | 223 nm |
| **max** | 471 nm | 487 nm | 223 nm |
| **z** | 1.16 um | 1.16 um | 885 nm |
| **Asymmetry** | 0.967 | | |
| **Theta** | -71.2° | | |

### XY profile & fitting parameters :

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

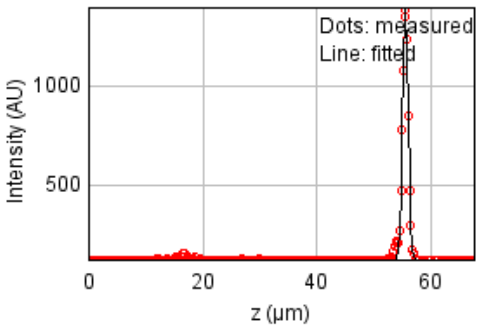




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 1405.965 (brightness)
B = 122.686 (background)
a = 0.642 px
b = -0.013 px
c = 0.609 px
xc = 5.657 px
yc = 6.801 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 51389.1372
Standard deviation: 12.93798
R^2: 0.99225
Parameters:
a = 115.42789
b = 1422.43351
c = 55.57511
d = 0.49049

## Bead 2528

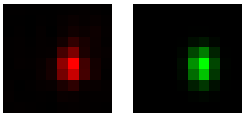
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

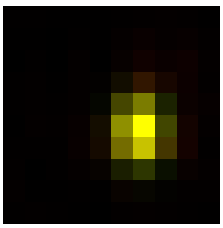
Coordinates : -136 um (x), -81.4 um (y), 55.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 380 nm | 392 nm | 223 nm |
| **max** | 517 nm | 534 nm | 223 nm |
| **z** | 1.25 um | 1.25 um | 885 nm |
| **Asymmetry** | 0.735 | | |
| **Theta** | -89.6° | | |

### XY profile & fitting parameters :

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

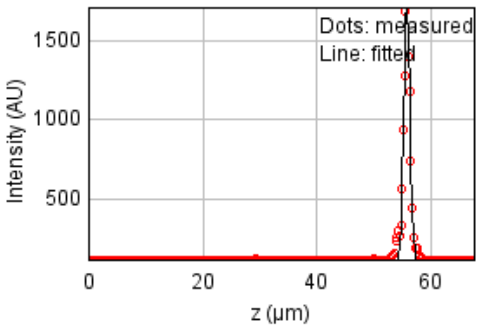




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.984

Parameters:
A = 1769.024 (brightness)
B = 127.093 (background)
a = 0.931 px
b = -0.003 px
c = 0.503 px
xc = 5.808 px
yc = 5.221 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 122250.353
Standard deviation: 19.95519
R^2: 0.98863
Parameters:
a = 115.39590
b = 1714.80877
c = 55.82327
d = 0.53048

## Bead 2529

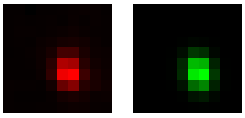
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

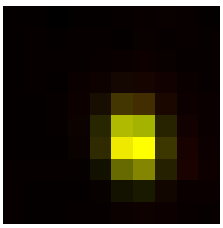
Coordinates : 112 um (x), -85.1 um (y), 55.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 403 nm | 417 nm | 223 nm |
| **max** | 521 nm | 539 nm | 223 nm |
| **z** | 1.54 um | 1.55 um | 885 nm |
| **Asymmetry** | 0.774 | | |
| **Theta** | -78.0° | | |

### XY profile & fitting parameters :

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

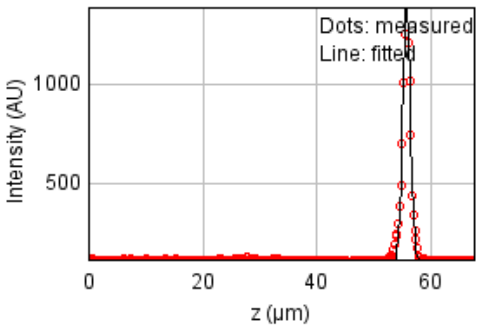




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.988

Parameters:
A = 1607.556 (brightness)
B = 126.014 (background)
a = 0.810 px
b = -0.067 px
c = 0.508 px
xc = 5.540 px
yc = 5.796 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 68336.3370
Standard deviation: 14.91958
R^2: 0.99196
Parameters:
a = 114.54215
b = 1400.18126
c = 55.76136
d = 0.65585

## Bead 2530 (Rejected)

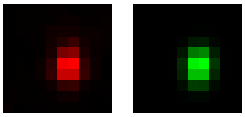
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

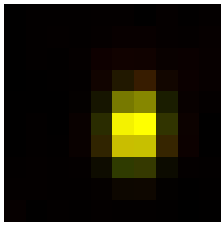
Coordinates : -129 um (x), 52.3 um (y), 59.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 403 nm | 417 nm | 223 nm |
| **max** | 539 nm | 557 nm | 223 nm |
| **z** | 1.13 um | 1.14 um | 885 nm |
| **Asymmetry** | 0.749 | | |
| **Theta** | 86.2° | | |

### XY profile & fitting parameters :

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

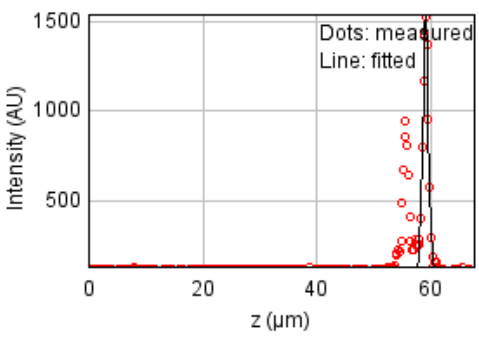




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.990

Parameters:
A = 1718.212 (brightness)
B = 133.709 (background)
a = 0.823 px
b = 0.024 px
c = 0.464 px
xc = 5.528 px
yc = 5.216 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 2730697.25
Standard deviation: 94.31214
R^2: 0.73585
Parameters:
a = 130.60037
b = 1548.40665
c = 59.12062
d = 0.48186

## Bead 2531

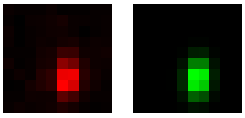
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

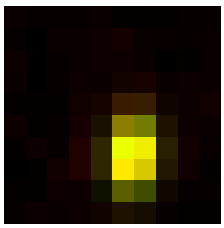
Coordinates : -164 um (x), 45.5 um (y), 54.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 367 nm | 380 nm | 223 nm |
| **max** | 581 nm | 600 nm | 223 nm |
| **z** | 1.22 um | 1.23 um | 885 nm |
| **Asymmetry** | 0.633 | | |
| **Theta** | 86.7° | | |

### XY profile & fitting parameters :

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

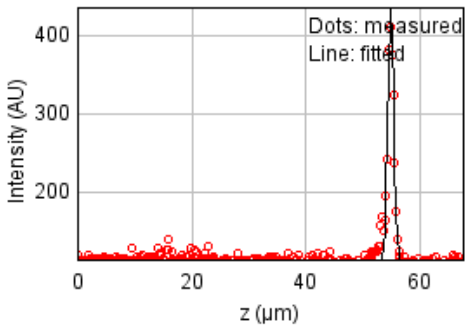




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 480.016 (brightness)
B = 113.615 (background)
a = 0.992 px
b = 0.035 px
c = 0.400 px
xc = 5.450 px
yc = 6.346 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 20562.2456
Standard deviation: 8.18401
R^2: 0.95430
Parameters:
a = 112.16839
b = 436.71602
c = 54.94769
d = 0.52007

## Bead 2532

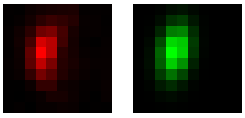
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

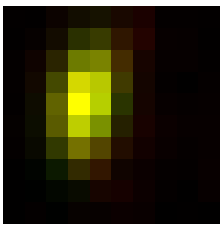
Coordinates : 5.35 um (x), -16.9 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 476 nm | 492 nm | 223 nm |
| **max** | 860 nm | 889 nm | 223 nm |
| **z** | 1.16 um | 1.17 um | 885 nm |
| **Asymmetry** | 0.554 | | |
| **Theta** | 80.2° | | |

### XY profile & fitting parameters :

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

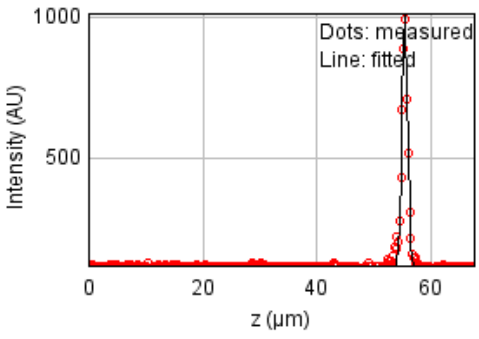




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 1055.967 (brightness)
B = 142.645 (background)
a = 0.580 px
b = 0.069 px
c = 0.193 px
xc = 3.338 px
yc = 3.821 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39834.2898
Standard deviation: 11.39093
R^2: 0.98739
Parameters:
a = 116.96163
b = 1013.31065
c = 55.47475
d = 0.49456

## Bead 2533

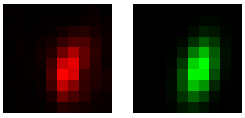
Date : Mon Oct 17 13:29:53 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

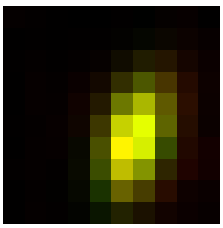
Coordinates : 70.7 um (x), -43.0 um (y), 55.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 473 nm | 489 nm | 223 nm |
| **max** | 883 nm | 913 nm | 223 nm |
| **z** | 1.31 um | 1.31 um | 885 nm |
| **Asymmetry** | 0.535 | | |
| **Theta** | 74.4° | | |

### XY profile & fitting parameters :

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

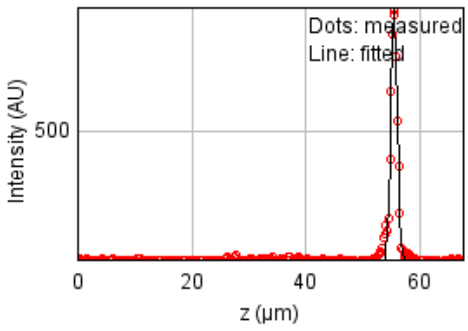




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

Parameters:
A = 986.856 (brightness)
B = 131.055 (background)
a = 0.570 px
b = 0.111 px
c = 0.203 px
xc = 5.566 px
yc = 5.564 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 36587.8615
Standard deviation: 10.91690
R^2: 0.98577
Parameters:
a = 113.85980
b = 878.31501
c = 55.51477
d = 0.55432

## Bead 2534 (Rejected)

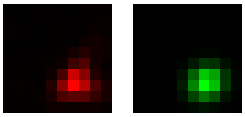
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

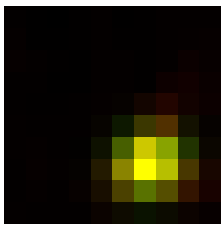
Coordinates : -7.21 um (x), 68.5 um (y), 56.7 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 493 nm | 510 nm | 223 nm |
| **max** | 545 nm | 564 nm | 223 nm |
| **z** | 1.9 um | 1.91 um | 885 nm |
| **Asymmetry** | 0.905 | | |
| **Theta** | 30.6° | | |

### XY profile & fitting parameters :

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

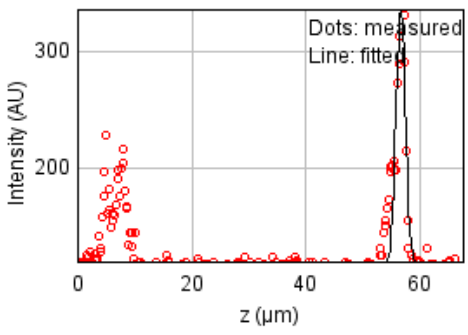




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.964

Parameters:
A = 1279.035 (brightness)
B = 124.598 (background)
a = 0.477 px
b = 0.044 px
c = 0.525 px
xc = 6.218 px
yc = 6.716 px

### Z profile & fitting parameters:




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

## Bead 2535

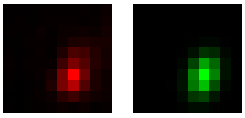
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

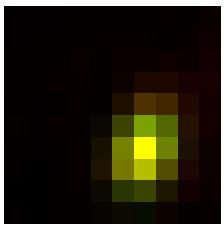
Coordinates : 149 um (x), 64.2 um (y), 56.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 432 nm | 447 nm | 223 nm |
| **max** | 633 nm | 654 nm | 223 nm |
| **z** | 1.36 um | 1.37 um | 885 nm |
| **Asymmetry** | 0.683 | | |
| **Theta** | 72.2° | | |

### XY profile & fitting parameters :

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

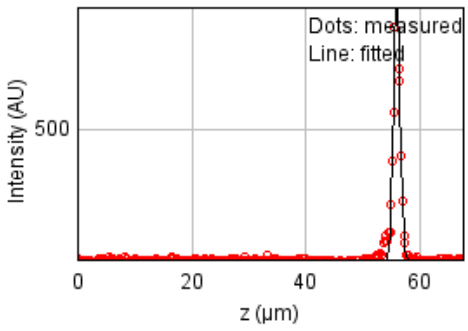




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.957

Parameters:
A = 693.689 (brightness)
B = 119.565 (background)
a = 0.683 px
b = 0.112 px
c = 0.371 px
xc = 5.984 px
yc = 6.109 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 41178.2827
Standard deviation: 11.58150
R^2: 0.98446
Parameters:
a = 112.49753
b = 872.02795
c = 55.98868
d = 0.57890

## Bead 2536

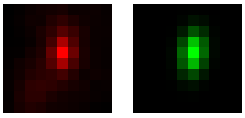
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

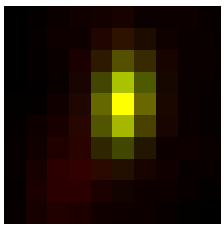
Coordinates : -52.4 um (x), 64.9 um (y), 56.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 384 nm | 397 nm | 223 nm |
| **max** | 669 nm | 692 nm | 223 nm |
| **z** | 1.21 um | 1.21 um | 885 nm |
| **Asymmetry** | 0.574 | | |
| **Theta** | 84.0° | | |

### XY profile & fitting parameters :

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

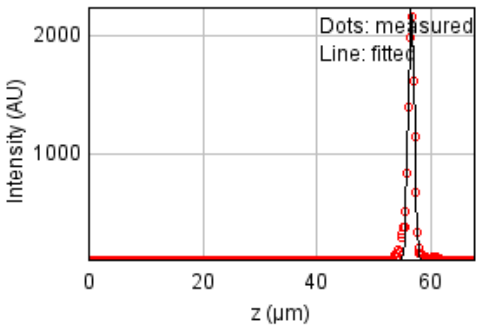




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.920

Parameters:
A = 1822.842 (brightness)
B = 276.806 (background)
a = 0.903 px
b = 0.064 px
c = 0.306 px
xc = 5.002 px
yc = 3.950 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 221299.038
Standard deviation: 26.84853
R^2: 0.98792
Parameters:
a = 118.19638
b = 2237.89853
c = 56.58716
d = 0.51366

## Bead 2537

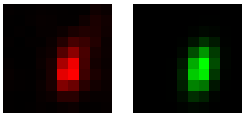
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

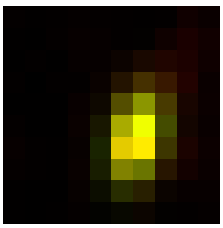
Coordinates : 7.41 um (x), 54.9 um (y), 55.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 400 nm | 414 nm | 223 nm |
| **max** | 696 nm | 719 nm | 223 nm |
| **z** | 1.6 um | 1.61 um | 885 nm |
| **Asymmetry** | 0.575 | | |
| **Theta** | 76.4° | | |

### XY profile & fitting parameters :

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

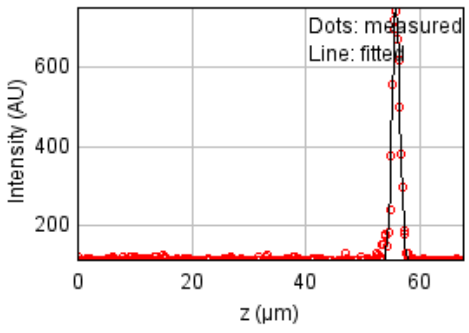




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.968

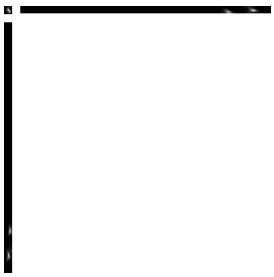
Parameters:
A = 1064.803  (brightness)
B = 129.303  (background)
a = 0.806 px
b = 0.128 px
c = 0.308 px
xc = 5.670 px
yc = 5.500 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 33844.2091
Standard deviation: 10.49961
R^2: 0.98453
Parameters:
a = 114.27547
b = 752.05411
c = 55.85394
d = 0.68149

## Bead 2538



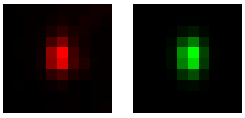
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

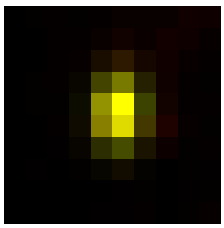
Coordinates : -37.4 um (x), 40.8 um (y), 62.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 376 nm | 388 nm | 223 nm |
| **max** | 546 nm | 565 nm | 223 nm |
| **z** | 1.08 um | 1.08 um | 885 nm |
| **Asymmetry** | 0.688 | | |
| **Theta** | 88.8° | | |

### XY profile & fitting parameters :

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

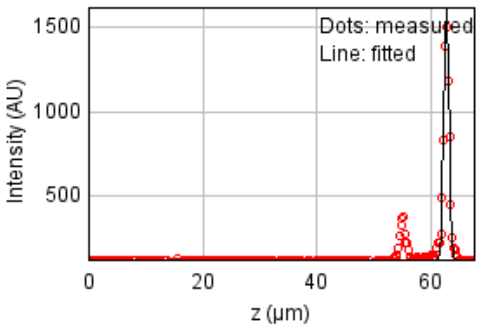




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.982

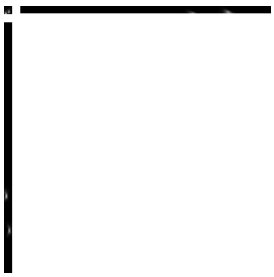
Parameters:
A = 1694.016 (brightness)
B = 133.684 (background)
a = 0.951 px
b = 0.010 px
c = 0.450 px
xc = 4.791 px
yc = 4.327 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 353008.892
Standard deviation: 33.90968
R^2: 0.95912
Parameters:
a = 121.36050
b = 1639.34380
c = 62.78192
d = 0.45705

## Bead 2539 (Rejected)



Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : -3.74 um (x), 30.1 um (y), 46.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

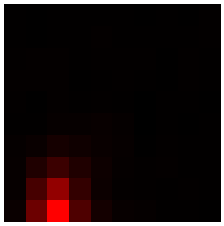
| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 0 | 0 | 223 nm |
| **max** | 0 | 0 | 223 nm |
| **z** | 1.1 um | 1.11 um | 885 nm |
| **Asymmetry** | 0.0 | | |
| **Theta** | 0.0° | | |

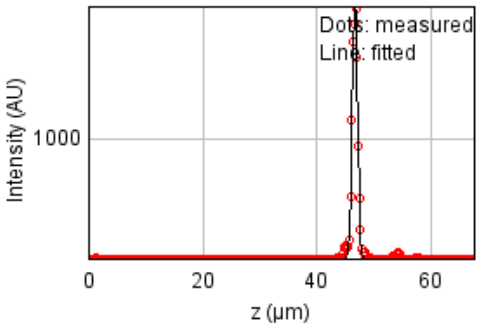
**XY profile & fitting parameters :**

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

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

**Z profile & fitting parameters:**






Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 109380.345
Standard deviation: 18.87559
R^2: 0.99178
Parameters:
a = 117.99139
b = 2012.15221
c = 46.73162
d = 0.46797

## Bead 2540

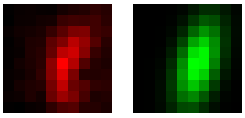
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

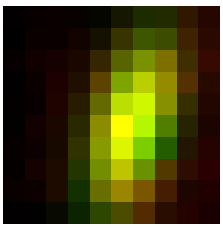
Coordinates : 126 um (x), 29.1 um (y), 55.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 632 nm | 654 nm | 223 nm |
| **max** | 1.39 um | 1.44 um | 223 nm |
| **z** | 998 nm | 1.0 um | 885 nm |
| **Asymmetry** | 0.455 | | |
| **Theta** | 74.8° | | |

### XY profile & fitting parameters :

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

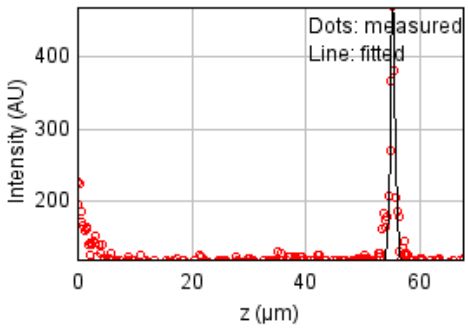




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.941

Parameters:
A = 409.614 (brightness)
B = 138.760 (background)
a = 0.317 px
b = 0.067 px
c = 0.088 px
xc = 5.467 px
yc = 4.915 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 88466.8361
Standard deviation: 16.97544
R^2: 0.82988
Parameters:
a = 116.96598
b = 476.41836
c = 55.30607
d = 0.42400

## Bead 2541

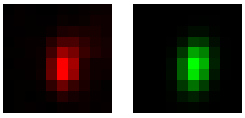
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

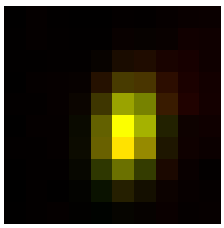
Coordinates : 138 um (x), 18.2 um (y), 56.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 445 nm | 460 nm | 223 nm |
| **max** | 697 nm | 721 nm | 223 nm |
| **z** | 1.31 um | 1.31 um | 885 nm |
| **Asymmetry** | 0.638 | | |
| **Theta** | 80.5° | | |

### XY profile & fitting parameters :

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

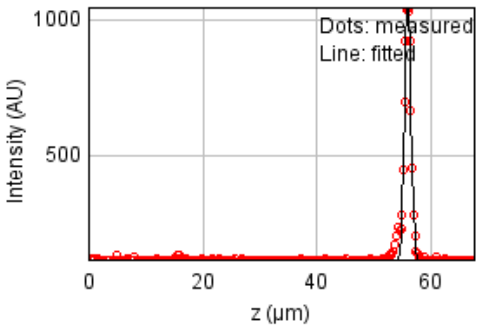




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.966

Parameters:
A = 982.384 (brightness)
B = 128.250 (background)
a = 0.668 px
b = 0.066 px
c = 0.287 px
xc = 5.205 px
yc = 5.237 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 62127.8317
Standard deviation: 14.22571
R^2: 0.98444
Parameters:
a = 112.42813
b = 1063.53276
c = 55.98006
d = 0.55563

## Bead 2542

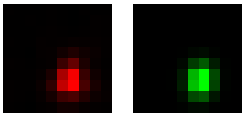
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

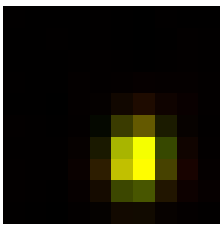
Coordinates : -34.2 um (x), 4.29 um (y), 56.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 406 nm | 420 nm | 223 nm |
| **max** | 505 nm | 522 nm | 223 nm |
| **z** | 1.19 um | 1.2 um | 885 nm |
| **Asymmetry** | 0.805 | | |
| **Theta** | 82.7° | | |

### XY profile & fitting parameters :

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

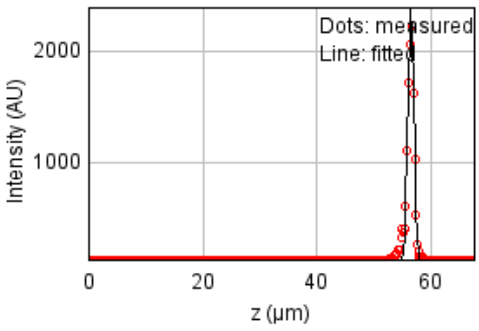




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.987

Parameters:
A = 2782.334 (brightness)
B = 135.801 (background)
a = 0.809 px
b = 0.036 px
c = 0.531 px
xc = 5.691 px
yc = 6.509 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 234621.163
Standard deviation: 27.64486
R^2: 0.98878
Parameters:
a = 117.76956
b = 2398.77854
c = 56.52800
d = 0.50663

## Bead 2543

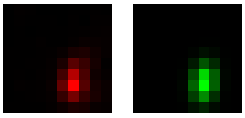
Date : Mon Oct 17 13:29:54 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

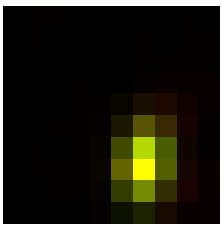
Coordinates : 5.94 um (x), -157 nm (y), 56.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 371 nm | 383 nm | 223 nm |
| **max** | 589 nm | 609 nm | 223 nm |
| **z** | 1.17 um | 1.18 um | 885 nm |
| **Asymmetry** | 0.629 | | |
| **Theta** | 83.6° | | |

### XY profile & fitting parameters :

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

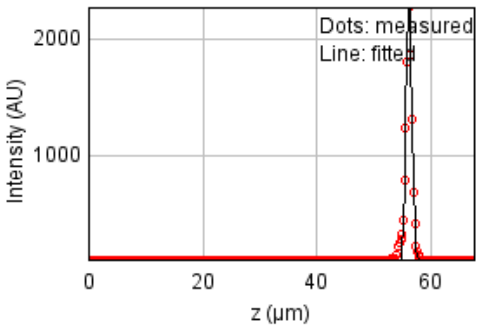




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.973

Parameters:
A = 2088.504 (brightness)
B = 134.444 (background)
a = 0.969 px
b = 0.065 px
c = 0.394 px
xc = 6.009 px
yc = 6.712 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 125765.006
Standard deviation: 20.24001
R^2: 0.99343
Parameters:
a = 116.49418
b = 2320.72826
c = 56.20858
d = 0.49875

## Bead 2544

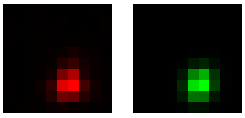
Date : Mon Oct 17 13:29:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

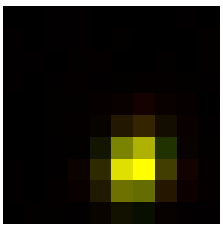
Coordinates : -46.3 um (x), -14.7 um (y), 56.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 407 nm | 420 nm | 223 nm |
| **max** | 481 nm | 497 nm | 223 nm |
| **z** | 1.14 um | 1.15 um | 885 nm |
| **Asymmetry** | 0.845 | | |
| **Theta** | 68.4° | | |

### XY profile & fitting parameters :

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

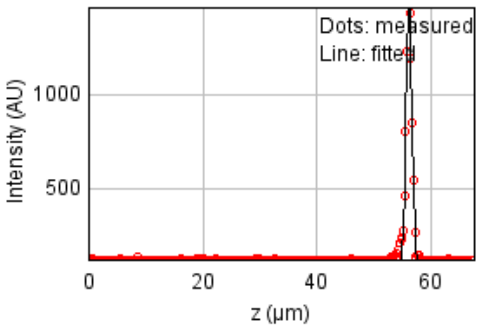




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.989

Parameters:
A = 1504.114 (brightness)
B = 121.164 (background)
a = 0.780 px
b = 0.080 px
c = 0.611 px
xc = 5.599 px
yc = 6.855 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 53614.1858
Standard deviation: 13.21511
R^2: 0.99276
Parameters:
a = 114.17601
b = 1503.16038
c = 56.21291
d = 0.48502

## Bead 2545

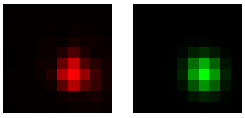
Date : Mon Oct 17 13:29:55 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

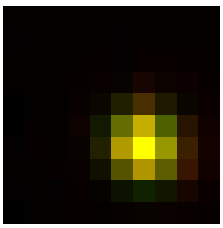
Coordinates : 115 um (x), -26.6 um (y), 56.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 502 nm | 519 nm | 223 nm |
| **max** | 544 nm | 562 nm | 223 nm |
| **z** | 1.4 um | 1.41 um | 885 nm |
| **Asymmetry** | 0.922 | | |
| **Theta** | -65.2° | | |

### XY profile & fitting parameters :

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

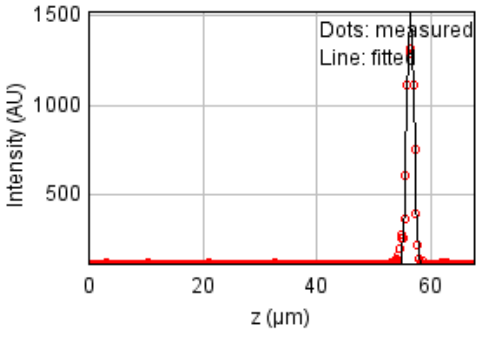




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.968

Parameters:
A = 1249.743  (brightness)
B = 122.074  (background)
a = 0.519 px
b = -0.030 px
c = 0.467 px
xc = 5.992 px
yc = 5.912 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 283512.946
Standard deviation: 30.38906
R^2: 0.97106
Parameters:
a = 111.40825
b = 1542.82020
c = 56.44275
d = 0.59483

## Bead 2546

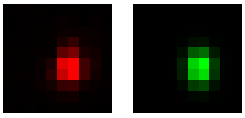
Date : Mon Oct 17 13:29:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

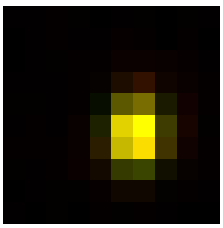
Coordinates : -136 um (x), -38.8 um (y), 56.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 404 nm | 418 nm | 223 nm |
| **max** | 515 nm | 533 nm | 223 nm |
| **z** | 1.19 um | 1.19 um | 885 nm |
| **Asymmetry** | 0.784 | | |
| **Theta** | 89.1° | | |

### XY profile & fitting parameters :

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

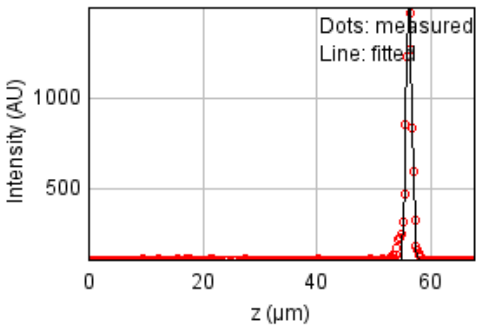




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.985

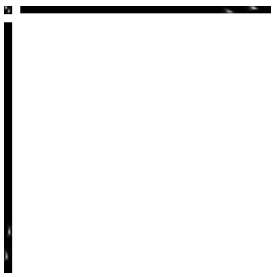
Parameters:
A = 1701.678 (brightness)
B = 125.033 (background)
a = 0.823 px
b = 0.005 px
c = 0.505 px
xc = 5.618 px
yc = 5.358 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 87100.6961
Standard deviation: 16.84386
R^2: 0.98895
Parameters:
a = 114.43490
b = 1517.03922
c = 56.21699
d = 0.50517

## Bead 2547



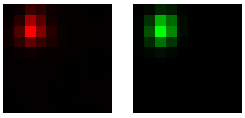
Date : Mon Oct 17 13:29:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

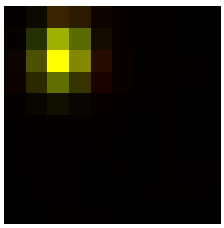
Coordinates : -44.6 um (x), 31.3 um (y), 63.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 385 nm | 398 nm | 223 nm |
| **max** | 477 nm | 493 nm | 223 nm |
| **z** | 1.2 um | 1.21 um | 885 nm |
| **Asymmetry** | 0.807 | | |
| **Theta** | 78.4° | | |

### XY profile & fitting parameters :

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

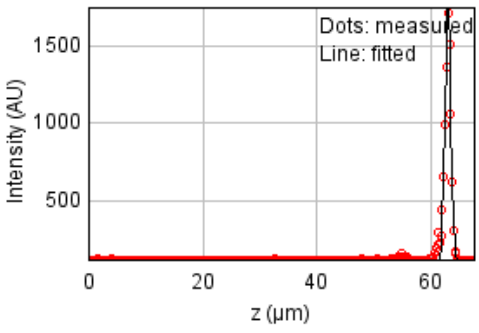




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.977

Parameters:
A = 1579.620 (brightness)
B = 121.338 (background)
a = 0.892 px
b = 0.062 px
c = 0.602 px
xc = 2.163 px
yc = 1.797 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 119608.108
Standard deviation: 19.73836
R^2: 0.98936
Parameters:
a = 116.47509
b = 1784.20794
c = 63.03242
d = 0.51015

## Bead 2548

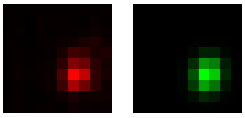
Date : Mon Oct 17 13:29:55 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

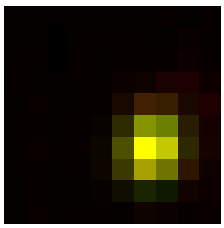
Coordinates : 129 um (x), 8.36 um (y), 56.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 437 nm | 452 nm | 223 nm |
| **max** | 523 nm | 540 nm | 223 nm |
| **z** | 1.46 um | 1.47 um | 885 nm |
| **Asymmetry** | 0.836 | | |
| **Theta** | 77.3° | | |

### XY profile & fitting parameters :

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

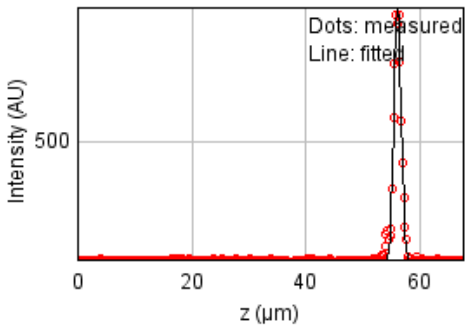




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.967

Parameters:
A = 790.031 (brightness)
B = 120.853 (background)
a = 0.692 px
b = 0.045 px
c = 0.501 px
xc = 6.326 px
yc = 6.010 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39788.5156
Standard deviation: 11.38439
R^2: 0.98808
Parameters:
a = 111.33901
b = 936.79056
c = 56.12380
d = 0.62090

## Bead 2549 (Rejected)

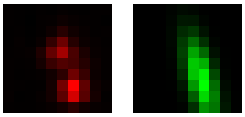
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

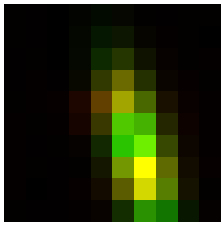
Coordinates : -81.5 um (x), -18.1 um (y), 56.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 425 nm | 439 nm | 223 nm |
| **max** | 1.35 um | 1.4 um | 223 nm |
| **z** | 1.2 um | 1.2 um | 885 nm |
| **Asymmetry** | 0.314 | | |
| **Theta** | -75.3° | | |

### XY profile & fitting parameters :

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

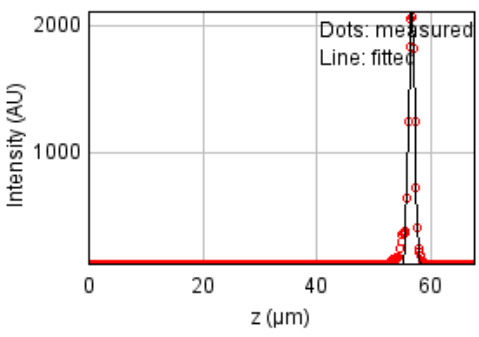




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.758

Parameters:
A = 1306.012 (brightness)
B = 132.095 (background)
a = 0.701 px
b = -0.164 px
c = 0.116 px
xc = 5.742 px
yc = 6.429 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 238137.595
Standard deviation: 27.85126
R^2: 0.98592
Parameters:
a = 117.98755
b = 2160.64718
c = 56.65304
d = 0.50954

## Bead 2550

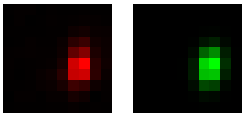
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

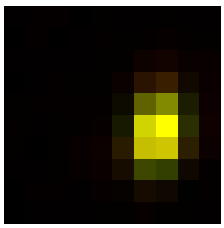
Coordinates : -109 um (x), -48.7 um (y), 56.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 374 nm | 386 nm | 223 nm |
| **max** | 560 nm | 579 nm | 223 nm |
| **z** | 1.13 um | 1.14 um | 885 nm |
| **Asymmetry** | 0.667 | | |
| **Theta** | 81.6° | | |

### XY profile & fitting parameters :

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

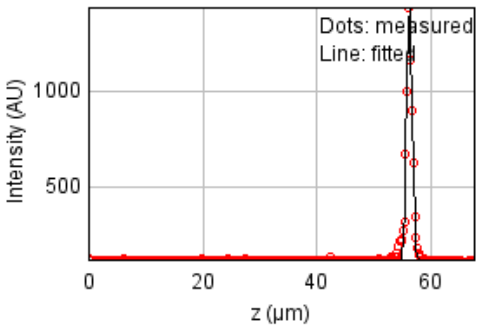




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.986

Parameters:
A = 1617.818 (brightness)
B = 129.100 (background)
a = 0.951 px
b = 0.077 px
c = 0.439 px
xc = 6.577 px
yc = 5.276 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 89392.5611
Standard deviation: 17.06403
R^2: 0.98682
Parameters:
a = 114.63631
b = 1446.29926
c = 56.28268
d = 0.48054

## Bead 2551

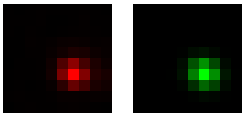
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

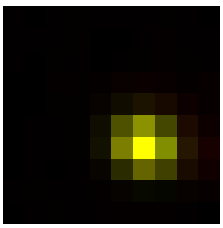
Coordinates : 160 um (x), -62.5 um (y), 56.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 415 nm | 429 nm | 223 nm |
| **max** | 466 nm | 482 nm | 223 nm |
| **z** | 1.41 um | 1.42 um | 885 nm |
| **Asymmetry** | 0.892 | | |
| **Theta** | -25.1° | | |

### XY profile & fitting parameters :

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

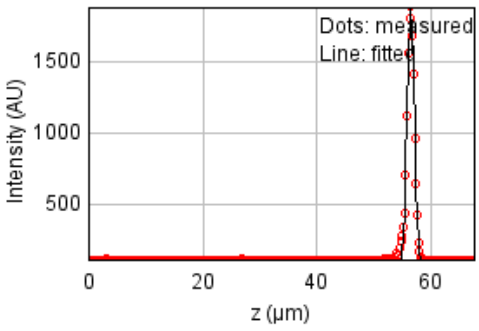




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.985

Parameters:
A = 1745.627 (brightness)
B = 124.772 (background)
a = 0.647 px
b = -0.061 px
c = 0.749 px
xc = 6.036 px
yc = 5.883 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 62772.7049
Standard deviation: 14.29935
R^2: 0.99576
Parameters:
a = 110.85459
b = 1885.59032
c = 56.50048
d = 0.60006

## Bead 2552

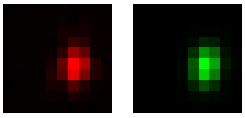
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

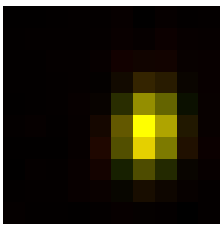
Coordinates : -133 um (x), -79.0 um (y), 56.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 421 nm | 435 nm | 223 nm |
| **max** | 585 nm | 605 nm | 223 nm |
| **z** | 1.36 um | 1.36 um | 885 nm |
| **Asymmetry** | 0.719 | | |
| **Theta** | 82.7° | | |

### XY profile & fitting parameters :

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

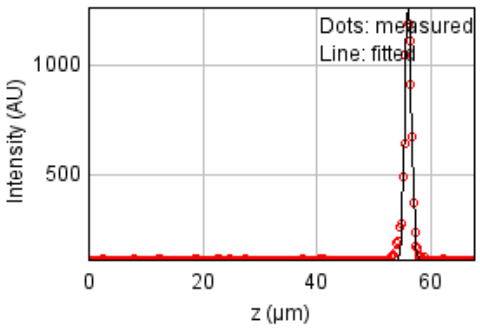




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.987

Parameters:
A = 1155.433 (brightness)
B = 124.273 (background)
a = 0.752 px
b = 0.046 px
c = 0.398 px
xc = 6.192 px
yc = 5.218 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 207086.779
Standard deviation: 25.97210
R^2: 0.96634
Parameters:
a = 112.85627
b = 1262.45881
c = 56.05322
d = 0.57574

## Bead 2553

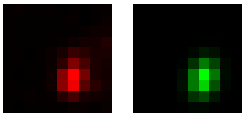
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

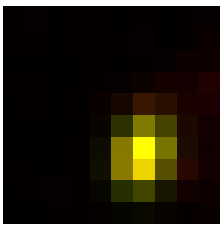
Coordinates : 158 um (x), 69.7 um (y), 56.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 412 nm | 426 nm | 223 nm |
| **max** | 552 nm | 570 nm | 223 nm |
| **z** | 1.29 um | 1.29 um | 885 nm |
| **Asymmetry** | 0.748 | | |
| **Theta** | 74.3° | | |

### XY profile & fitting parameters :

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

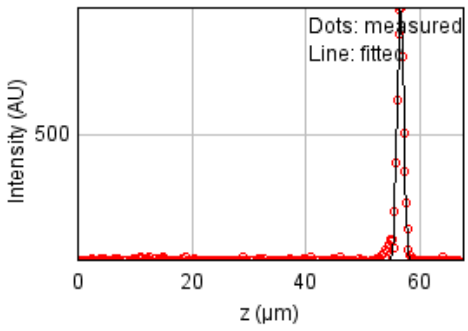




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.964

Parameters:
A = 837.619 (brightness)
B = 120.611 (background)
a = 0.763 px
b = 0.090 px
c = 0.466 px
xc = 5.951 px
yc = 6.305 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34041.1037
Standard deviation: 10.53010
R^2: 0.98762
Parameters:
a = 110.63023
b = 906.76035
c = 56.62002
d = 0.54756

## Bead 2554

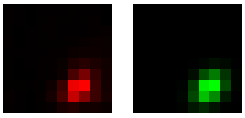
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

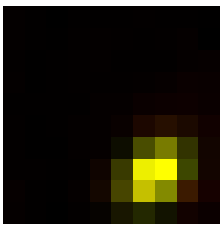
Coordinates : 115 um (x), 49.2 um (y), 57.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 392 nm | 406 nm | 223 nm |
| **max** | 531 nm | 549 nm | 223 nm |
| **z** | 1.03 um | 1.04 um | 885 nm |
| **Asymmetry** | 0.738 | | |
| **Theta** | 45.0° | | |

### XY profile & fitting parameters :

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

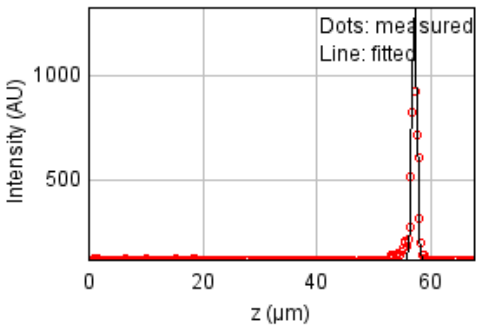




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.981

Parameters:
A = 1519.215 (brightness)
B = 122.747 (background)
a = 0.673 px
b = 0.198 px
c = 0.674 px
xc = 6.494 px
yc = 7.193 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 169669.392
Standard deviation: 23.50891
R^2: 0.96809
Parameters:
a = 113.86747
b = 1334.97947
c = 57.15723
d = 0.43850

## Bead 2555

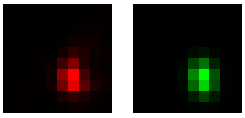
Date : Mon Oct 17 13:29:56 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

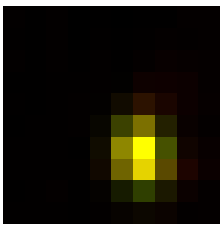
Coordinates : -10.1 um (x), -9.97 um (y), 56.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 385 nm | 398 nm | 223 nm |
| **max** | 517 nm | 534 nm | 223 nm |
| **z** | 1.13 um | 1.13 um | 885 nm |
| **Asymmetry** | 0.746 | | |
| **Theta** | -82.9° | | |

### XY profile & fitting parameters :

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

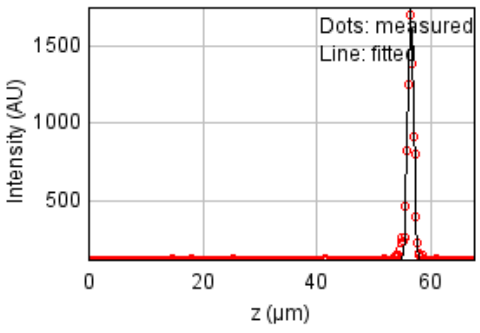




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.980

Parameters:
A = 1917.581 (brightness)
B = 130.616 (background)
a = 0.897 px
b = -0.049 px
c = 0.509 px
xc = 5.874 px
yc = 6.298 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 152101.748
Standard deviation: 22.25860
R^2: 0.98518
Parameters:
a = 115.51861
b = 1755.18756
c = 56.48236
d = 0.47876

## Bead 2556

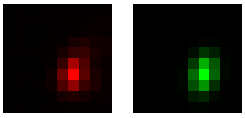
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

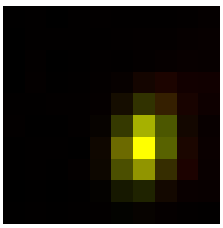
Coordinates : 47.3 um (x), -12.7 um (y), 56.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 376 nm | 389 nm | 223 nm |
| **max** | 563 nm | 582 nm | 223 nm |
| **z** | 1.1 um | 1.1 um | 885 nm |
| **Asymmetry** | 0.668 | | |
| **Theta** | 76.2° | | |

### XY profile & fitting parameters :

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

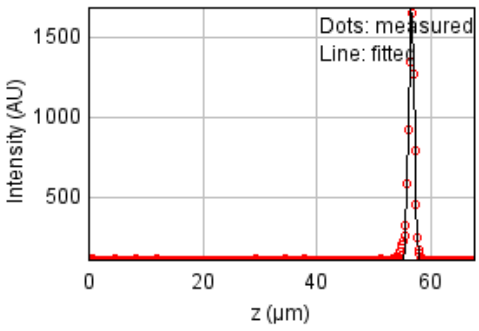




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.974

Parameters:
A = 1551.461 (brightness)
B = 131.632 (background)
a = 0.919 px
b = 0.122 px
c = 0.454 px
xc = 5.992 px
yc = 5.906 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 62759.7976
Standard deviation: 14.29788
R^2: 0.99326
Parameters:
a = 115.86820
b = 1705.49677
c = 56.61591
d = 0.46564

## Bead 2557

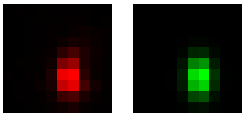
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

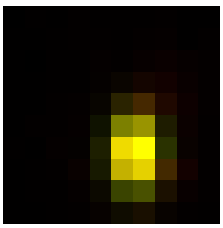
Coordinates : -31.6 um (x), -27.8 um (y), 56.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 386 nm | 399 nm | 223 nm |
| **max** | 598 nm | 619 nm | 223 nm |
| **z** | 1.16 um | 1.17 um | 885 nm |
| **Asymmetry** | 0.646 | | |
| **Theta** | -89.4° | | |

### XY profile & fitting parameters :

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

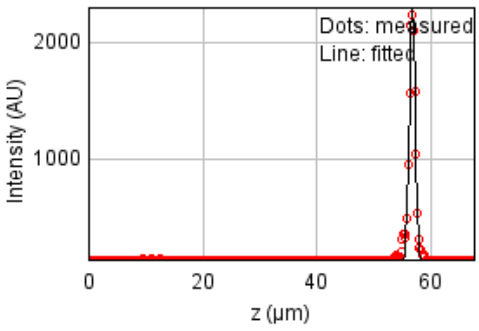




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.984

Parameters:
A = 2643.299  (brightness)
B = 134.673  (background)
a = 0.899 px
b = -0.005 px
c = 0.375 px
xc = 5.589 px
yc = 6.227 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 177848.599
Standard deviation: 24.06889
R^2: 0.99052
Parameters:
a = 118.48299
b = 2309.02706
c = 56.76494
d = 0.49335

## Bead 2558

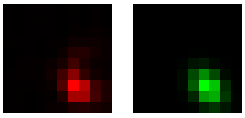
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

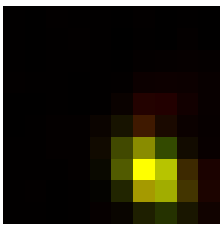
Coordinates : 47.8 um (x), -33.7 um (y), 56.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 410 nm | 424 nm | 223 nm |
| **max** | 574 nm | 594 nm | 223 nm |
| **z** | 1.22 um | 1.23 um | 885 nm |
| **Asymmetry** | 0.715 | | |
| **Theta** | -52.1° | | |

### XY profile & fitting parameters :

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

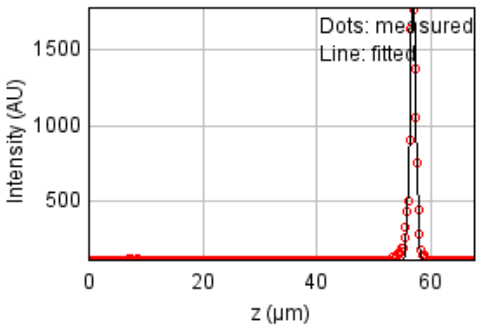




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.961

Parameters:
A = 1690.178 (brightness)
B = 132.367 (background)
a = 0.650 px
b = -0.189 px
c = 0.554 px
xc = 6.343 px
yc = 7.160 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 179516.246
Standard deviation: 24.18147
R^2: 0.98481
Parameters:
a = 115.54022
b = 1806.06313
c = 56.87701
d = 0.51946

## Bead 2559

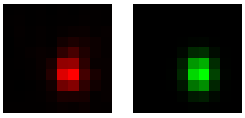
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

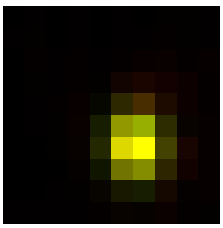
Coordinates : 94.1 um (x), -46.0 um (y), 56.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 419 nm | 434 nm | 223 nm |
| **max** | 525 nm | 543 nm | 223 nm |
| **z** | 1.63 um | 1.63 um | 885 nm |
| **Asymmetry** | 0.798 | | |
| **Theta** | -87.1° | | |

### XY profile & fitting parameters :

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

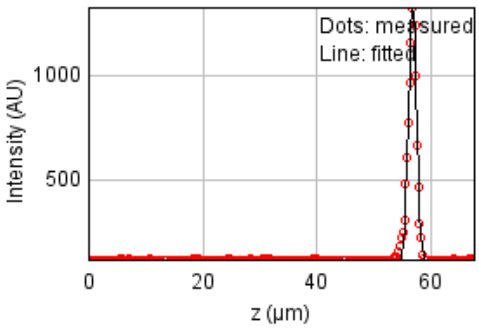




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.981

Parameters:
A = 1523.148 (brightness)
B = 128.222 (background)
a = 0.762 px
b = -0.014 px
c = 0.487 px
xc = 5.609 px
yc = 5.877 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 80938.8903
Standard deviation: 16.23714
R^2: 0.98990
Parameters:
a = 114.04045
b = 1330.32636
c = 56.82913
d = 0.69061

## Bead 2560

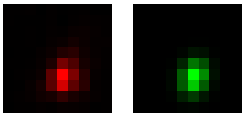
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

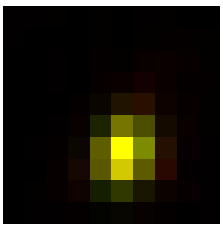
Coordinates : -151 um (x), -83.4 um (y), 56.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 400 nm | 413 nm | 223 nm |
| **max** | 526 nm | 544 nm | 223 nm |
| **z** | 1.36 um | 1.37 um | 885 nm |
| **Asymmetry** | 0.76 | | |
| **Theta** | 73.8° | | |

### XY profile & fitting parameters :

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

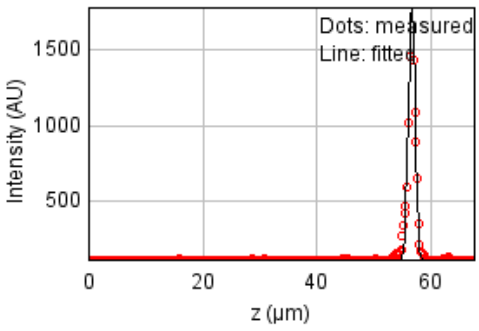




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.978

Parameters:
A = 1854.544 (brightness)
B = 135.997 (background)
a = 0.812 px
b = 0.095 px
c = 0.512 px
xc = 5.096 px
yc = 6.245 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 237081.809
Standard deviation: 27.78945
R^2: 0.98157
Parameters:
a = 114.99414
b = 1786.96977
c = 56.68495
d = 0.57810

## Bead 2561

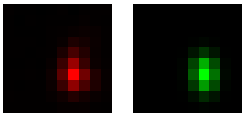
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

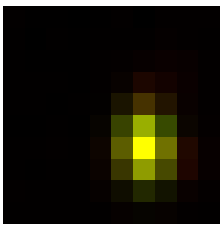
Coordinates : -23.7 um (x), -96.1 um (y), 56.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 383 nm | 396 nm | 223 nm |
| **max** | 555 nm | 573 nm | 223 nm |
| **z** | 1.27 um | 1.28 um | 885 nm |
| **Asymmetry** | 0.691 | | |
| **Theta** | -86.9° | | |

### XY profile & fitting parameters :

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

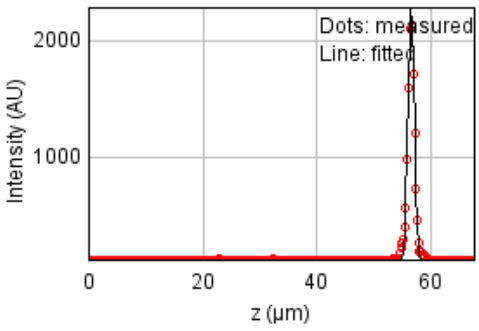




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

Parameters:
A = 2086.571 (brightness)
B = 133.736 (background)
a = 0.913 px
b = -0.025 px
c = 0.437 px
xc = 6.052 px
yc = 5.938 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 88567.7431
Standard deviation: 16.98512
R^2: 0.99559
Parameters:
a = 115.96568
b = 2291.41756
c = 56.57152
d = 0.53967

## Bead 2562

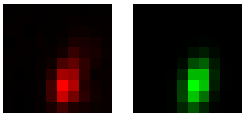
Date : Mon Oct 17 13:29:57 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

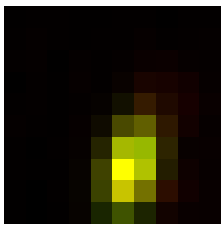
Coordinates : 29.6 um (x), 50.2 um (y), 56.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 398 nm | 411 nm | 223 nm |
| **max** | 713 nm | 737 nm | 223 nm |
| **z** | 1.14 um | 1.14 um | 885 nm |
| **Asymmetry** | 0.558 | | |
| **Theta** | 76.1° | | |

### XY profile & fitting parameters :

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

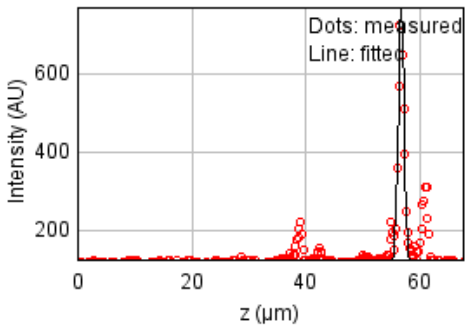




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.972

Parameters:
A = 1193.710 (brightness)
B = 131.605 (background)
a = 0.815 px
b = 0.137 px
c = 0.298 px
xc = 5.349 px
yc = 6.894 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 240997.473
Standard deviation: 28.01800
R^2: 0.86797
Parameters:
a = 124.69055
b = 771.57312
c = 56.74856
d = 0.48210

## Bead 2563

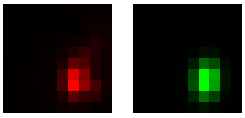
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

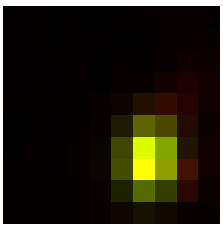
Coordinates : 70.7 um (x), 45.2 um (y), 57.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 399 nm | 412 nm | 223 nm |
| **max** | 547 nm | 566 nm | 223 nm |
| **z** | 1.4 um | 1.41 um | 885 nm |
| **Asymmetry** | 0.729 | | |
| **Theta** | 84.7° | | |

### XY profile & fitting parameters :

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

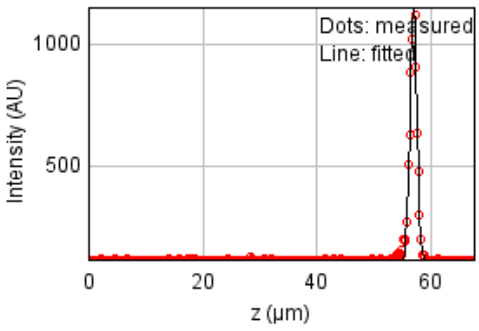




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.947

Parameters:
A = 1096.873  (brightness)
B = 130.472  (background)
a = 0.840 px
b = 0.036 px
c = 0.451 px
xc = 6.235 px
yc = 6.500 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 34799.6591
Standard deviation: 10.64678
R^2: 0.99308
Parameters:
a = 113.97412
b = 1150.54718
c = 56.98880
d = 0.59523

## Bead 2564

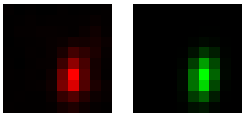
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

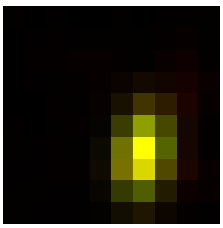
Coordinates : -14.8 um (x), 44.4 um (y), 56.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 389 nm | 402 nm | 223 nm |
| **max** | 653 nm | 675 nm | 223 nm |
| **z** | 1.14 um | 1.15 um | 885 nm |
| **Asymmetry** | 0.596 | | |
| **Theta** | 82.0° | | |

### XY profile & fitting parameters :

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

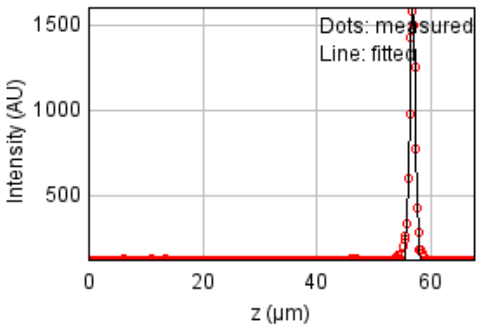




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.980

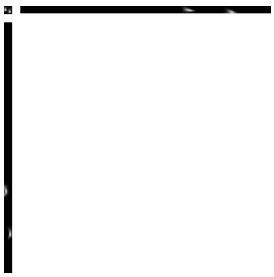
Parameters:
A = 1452.510 (brightness)
B = 132.211 (background)
a = 0.874 px
b = 0.079 px
c = 0.326 px
xc = 5.938 px
yc = 6.246 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 49264.8877
Standard deviation: 12.66775
R^2: 0.99429
Parameters:
a = 115.05101
b = 1614.77844
c = 56.81397
d = 0.48599

## Bead 2565



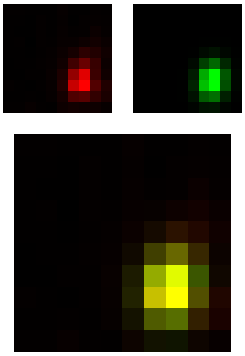
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : 44.2 um (x), 10.0 um (y), 57.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 427 nm | 441 nm | 223 nm |
| **max** | 562 nm | 581 nm | 223 nm |
| **z** | 1.11 um | 1.12 um | 885 nm |
| **Asymmetry** | 0.76 | | |
| **Theta** | 80.6° | | |

### XY profile & fitting parameters :

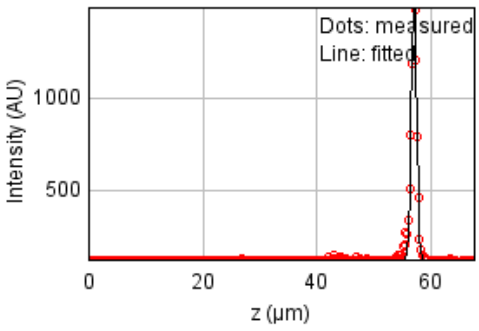
(red : the orignal data, green : the fit, yellow : the two merged)



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

Parameters:
A = 1536.996 (brightness)
B = 127.690 (background)
a = 0.728 px
b = 0.050 px
c = 0.434 px
xc = 6.726 px
yc = 6.555 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 74765.3958
Standard deviation: 15.60562
R^2: 0.99003
Parameters:
a = 116.10578
b = 1529.15133
c = 57.07891
d = 0.47320

## Bead 2566 (Rejected)

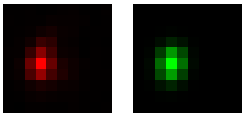
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

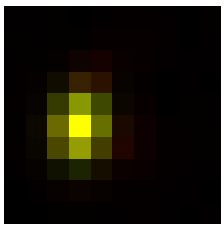
Coordinates : 5.94 um (x), -223 nm (y), 56.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 394 nm | 408 nm | 223 nm |
| **max** | 519 nm | 536 nm | 223 nm |
| **z** | 2.99 um | 3.0 um | 885 nm |
| **Asymmetry** | 0.76 | | |
| **Theta** | 83.3° | | |

### XY profile & fitting parameters :

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

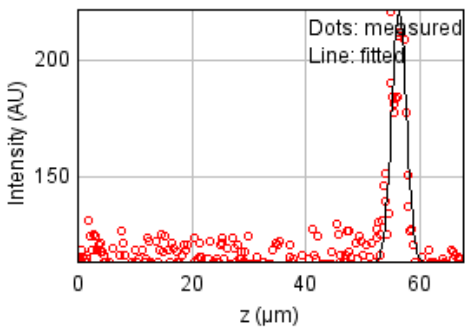




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.977

Parameters:
A = 2052.102 (brightness)
B = 139.429 (background)
a = 0.858 px
b = 0.042 px
c = 0.503 px
xc = 3.012 px
yc = 5.014 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 27611.2325
Standard deviation: 9.48361
R^2: 0.80447
Parameters:
a = 113.26738
b = 222.28164
c = 56.39460
d = 1.27097

## Bead 2567

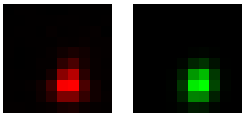
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

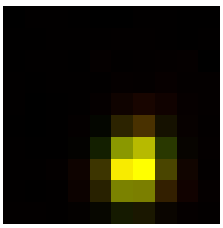
Coordinates : -27.4 um (x), -14.5 um (y), 56.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 434 nm | 448 nm | 223 nm |
| **max** | 520 nm | 538 nm | 223 nm |
| **z** | 1.15 um | 1.16 um | 885 nm |
| **Asymmetry** | 0.834 | | |
| **Theta** | 74.1° | | |

### XY profile & fitting parameters :

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

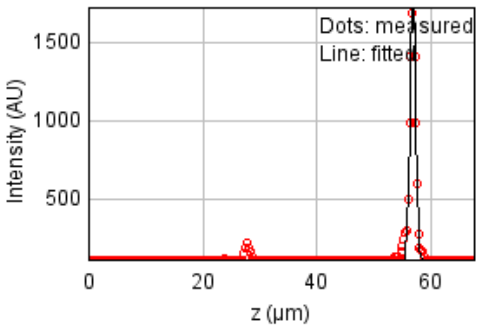




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.985

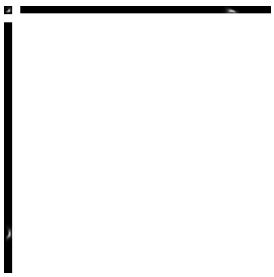
Parameters:
A = 1873.841  (brightness)
B = 126.470  (background)
a = 0.697 px
b = 0.057 px
c = 0.512 px
xc = 5.574 px
yc = 6.860 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 150092.385
Standard deviation: 22.11109
R^2: 0.98563
Parameters:
a = 118.14759
b = 1755.64582
c = 56.87585
d = 0.48911

## Bead 2568



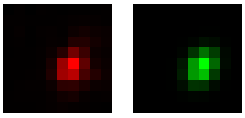
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

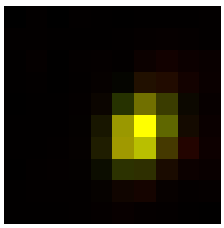
Coordinates : 3.26 um (x), -30.2 um (y), 56.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 409 nm | 422 nm | 223 nm |
| **max** | 533 nm | 551 nm | 223 nm |
| **z** | 1.25 um | 1.25 um | 885 nm |
| **Asymmetry** | 0.766 | | |
| **Theta** | 59.0° | | |

### XY profile & fitting parameters :

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

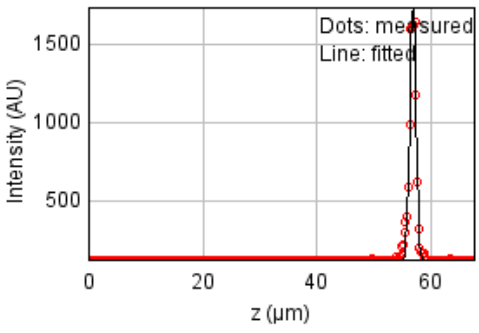




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.981

Parameters:
A = 1566.302 (brightness)
B = 131.386 (background)
a = 0.716 px
b = 0.147 px
c = 0.560 px
xc = 5.802 px
yc = 5.293 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 181387.000
Standard deviation: 24.30714
R^2: 0.98424
Parameters:
a = 113.83158
b = 1766.16100
c = 56.88425
d = 0.52973

## Bead 2569

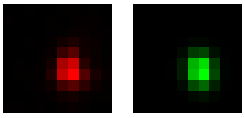
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

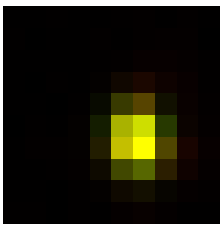
Coordinates : -7.77 um (x), -40.8 um (y), 57.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 410 nm | 424 nm | 223 nm |
| **max** | 508 nm | 525 nm | 223 nm |
| **z** | 1.2 um | 1.2 um | 885 nm |
| **Asymmetry** | 0.806 | | |
| **Theta** | -82.7° | | |

### XY profile & fitting parameters :

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

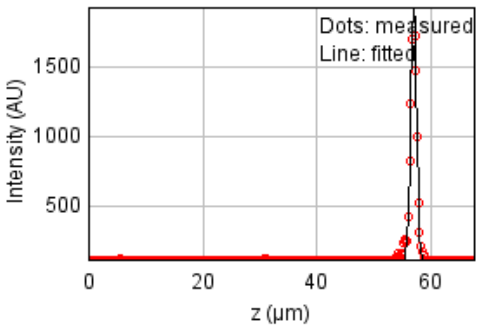




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.985

Parameters:
A = 2116.516  (brightness)
B = 127.987  (background)
a = 0.794 px
b = -0.035 px
c = 0.524 px
xc = 5.668 px
yc = 5.613 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 89599.8315
Standard deviation: 17.08380
R^2: 0.99319
Parameters:
a = 115.99259
b = 1924.76338
c = 57.01939
d = 0.50912

## Bead 2570

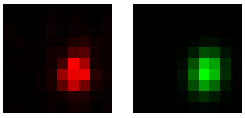
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

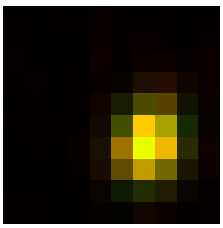
Coordinates : -79.6 um (x), -48.4 um (y), 56.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 479 nm | 495 nm | 223 nm |
| **max** | 614 nm | 635 nm | 223 nm |
| **z** | 1.43 um | 1.43 um | 885 nm |
| **Asymmetry** | 0.779 | | |
| **Theta** | 77.3° | | |

### XY profile & fitting parameters :

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

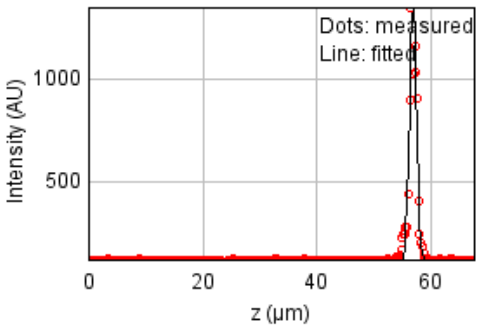




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.962

Parameters:
A = 1148.441 (brightness)
B = 120.668 (background)
a = 0.575 px
b = 0.049 px
c = 0.367 px
xc = 6.233 px
yc = 5.790 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 316414.088
Standard deviation: 32.10397
R^2: 0.95826
Parameters:
a = 113.58570
b = 1353.78760
c = 56.91171
d = 0.60540

## Bead 2571

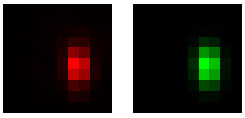
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

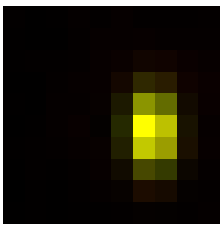
Coordinates : -96.5 um (x), -57.0 um (y), 56.8 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 356 nm | 368 nm | 223 nm |
| **max** | 586 nm | 606 nm | 223 nm |
| **z** | 1.2 um | 1.2 um | 885 nm |
| **Asymmetry** | 0.608 | | |
| **Theta** | -88.5° | | |

### XY profile & fitting parameters :

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

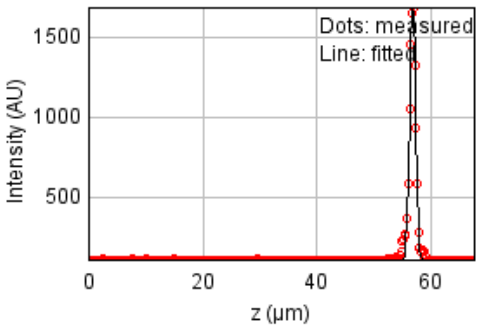




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.992

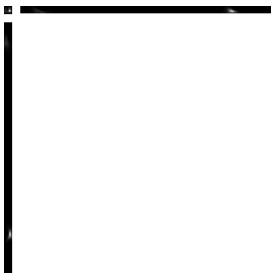
Parameters:
A = 1724.511 (brightness)
B = 131.798 (background)
a = 1.056 px
b = -0.018 px
c = 0.391 px
xc = 6.370 px
yc = 5.207 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 89250.1134
Standard deviation: 17.05042
R^2: 0.99117
Parameters:
a = 115.10450
b = 1699.68603
c = 56.84388
d = 0.50862

## Bead 2572



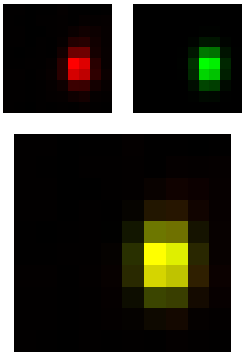
Date : Mon Oct 17 13:29:58 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : -50.3 um (x), -74.2 um (y), 56.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 393 nm | 406 nm | 223 nm |
| **max** | 532 nm | 550 nm | 223 nm |
| **z** | 1.25 um | 1.26 um | 885 nm |
| **Asymmetry** | 0.737 | | |
| **Theta** | 88.9° | | |

### XY profile & fitting parameters :

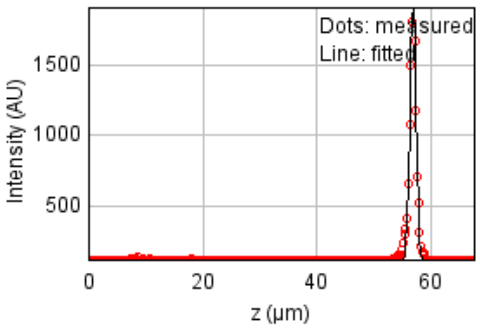
(red : the orignal data, green : the fit, yellow : the two merged)



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

Parameters:
A = 2326.097 (brightness)
B = 129.155 (background)
a = 0.871 px
b = 0.008 px
c = 0.473 px
xc = 6.457 px
yc = 5.298 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 132974.489
Standard deviation: 20.81206
R^2: 0.99031
Parameters:
a = 116.99669
b = 1923.79206
c = 56.90296
d = 0.53176

## Bead 2573

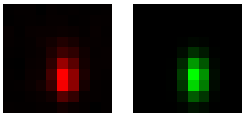
Date : Mon Oct 17 13:29:59 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

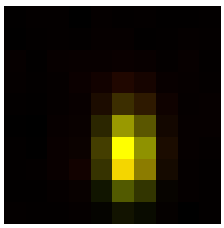
Coordinates : -120 um (x), 95.9 um (y), 57.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 369 nm | 381 nm | 223 nm |
| **max** | 624 nm | 645 nm | 223 nm |
| **z** | 1.33 um | 1.34 um | 885 nm |
| **Asymmetry** | 0.591 | | |
| **Theta** | -89.2° | | |

### XY profile & fitting parameters :

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

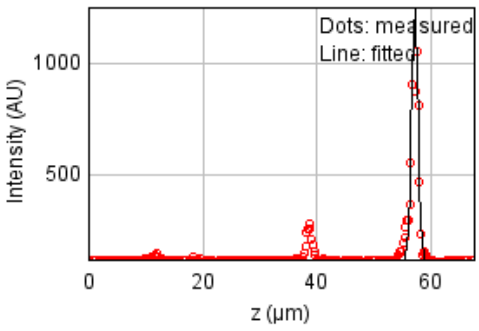




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.983

Parameters:
A = 1367.956 (brightness)
B = 126.820 (background)
a = 0.986 px
b = -0.009 px
c = 0.345 px
xc = 5.218 px
yc = 6.248 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 352396.844
Standard deviation: 33.88027
R^2: 0.94122
Parameters:
a = 119.40636
b = 1249.73382
c = 57.21713
d = 0.56487

## Bead 2574 (Rejected)

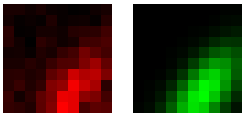
Date : Mon Oct 17 13:29:59 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

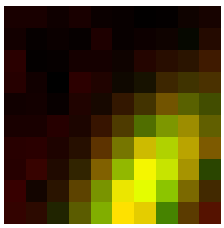
Coordinates : 149 um (x), 85.0 um (y), 55.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 737 nm | 762 nm | 223 nm |
| **max** | 1.6 um | 1.66 um | 223 nm |
| **z** | 1.39 um | 1.39 um | 885 nm |
| **Asymmetry** | 0.46 | | |
| **Theta** | 53.3° | | |

### XY profile & fitting parameters :

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

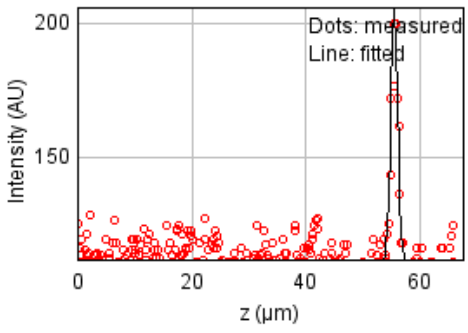




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.905

Parameters:
A = 100.892 (brightness)
B = 114.007 (background)
a = 0.178 px
b = 0.093 px
c = 0.122 px
xc = 5.934 px
yc = 7.685 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 14560.6171
Standard deviation: 6.88685
R^2: 0.74024
Parameters:
a = 111.90115
b = 206.88552
c = 55.53864
d = 0.58901

## Bead 2575

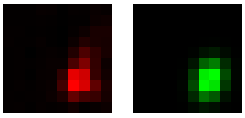
Date : Mon Oct 17 13:29:59 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

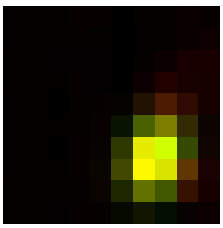
Coordinates : 74.9 um (x), 78.4 um (y), 57.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 440 nm | 454 nm | 223 nm |
| **max** | 585 nm | 605 nm | 223 nm |
| **z** | 1.62 um | 1.63 um | 885 nm |
| **Asymmetry** | 0.751 | | |
| **Theta** | 72.5° | | |

### XY profile & fitting parameters :

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

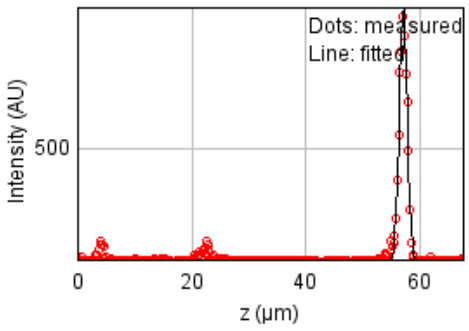




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.942

Parameters:
A = 1001.207 (brightness)
B = 122.585 (background)
a = 0.667 px
b = 0.087 px
c = 0.419 px
xc = 6.501 px
yc = 6.460 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 67030.9354
Standard deviation: 14.77639
R^2: 0.98370
Parameters:
a = 116.82025
b = 986.97080
c = 57.12992
d = 0.68793

## Bead 2576

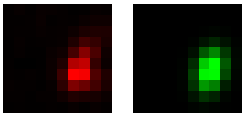
Date : Mon Oct 17 13:29:59 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

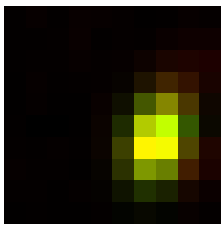
Coordinates : 62.6 um (x), 50.7 um (y), 57.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 443 nm | 458 nm | 223 nm |
| **max** | 665 nm | 688 nm | 223 nm |
| **z** | 1.62 um | 1.63 um | 885 nm |
| **Asymmetry** | 0.665 | | |
| **Theta** | 73.9° | | |

### XY profile & fitting parameters :

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

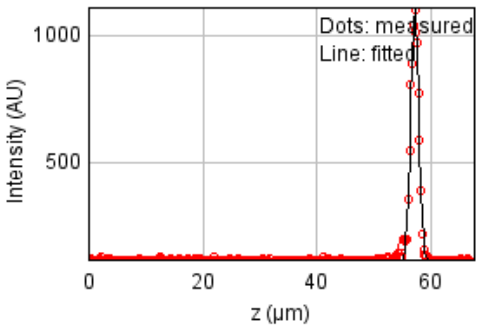




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.948

Parameters:
A = 964.788 (brightness)
B = 121.776 (background)
a = 0.656 px
b = 0.102 px
c = 0.332 px
xc = 6.583 px
yc = 5.603 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 54329.8457
Standard deviation: 13.30301
R^2: 0.98993
Parameters:
a = 113.18665
b = 1112.71061
c = 57.21701
d = 0.68838

## Bead 2577

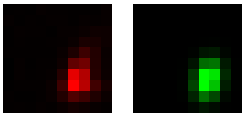
Date : Mon Oct 17 13:29:59 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

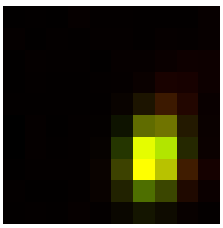
Coordinates : 25.4 um (x), 49.4 um (y), 57.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 400 nm | 413 nm | 223 nm |
| **max** | 577 nm | 596 nm | 223 nm |
| **z** | 1.57 um | 1.57 um | 885 nm |
| **Asymmetry** | 0.694 | | |
| **Theta** | 77.8° | | |

### XY profile & fitting parameters :

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

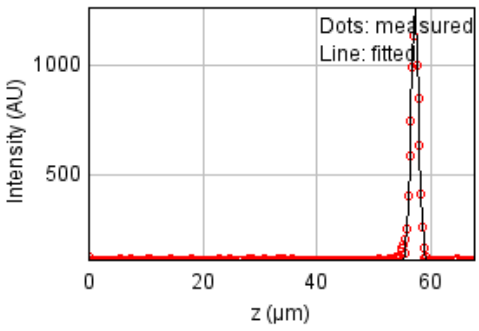




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.963

Parameters:
A = 1291.597  (brightness)
B = 124.810  (background)
a = 0.820 px
b = 0.090 px
c = 0.423 px
xc = 6.392 px
yc = 6.429 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 38478.6807
Standard deviation: 11.19543
R^2: 0.99439
Parameters:
a = 113.82964
b = 1262.52084
c = 57.23031
d = 0.66531

## Bead 2578

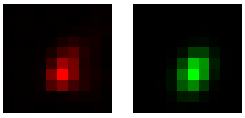
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

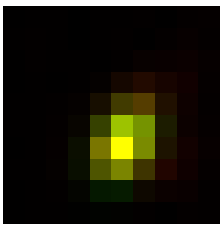
Coordinates : 63.4 um (x), 22.9 um (y), 57.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 416 nm | 430 nm | 223 nm |
| **max** | 595 nm | 615 nm | 223 nm |
| **z** | 1.49 um | 1.5 um | 885 nm |
| **Asymmetry** | 0.698 | | |
| **Theta** | 62.3° | | |

### XY profile & fitting parameters :

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

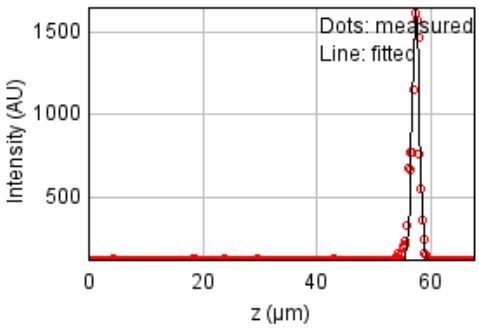




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.958

Parameters:
A = 1587.724 (brightness)
B = 130.428 (background)
a = 0.690 px
b = 0.164 px
c = 0.465 px
xc = 5.116 px
yc = 5.752 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 537252.229
Standard deviation: 41.83309
R^2: 0.95578
Parameters:
a = 114.50575
b = 1649.42807
c = 57.38941
d = 0.63266

## Bead 2579

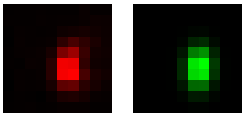
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

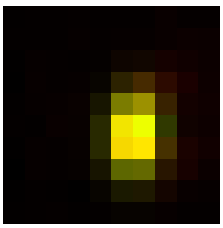
Coordinates : 62.4 um (x), -18.8 um (y), 56.7 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 409 nm | 423 nm | 223 nm |
| **max** | 631 nm | 652 nm | 223 nm |
| **z** | 1.36 um | 1.37 um | 885 nm |
| **Asymmetry** | 0.648 | | |
| **Theta** | 87.0° | | |

### XY profile & fitting parameters :

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

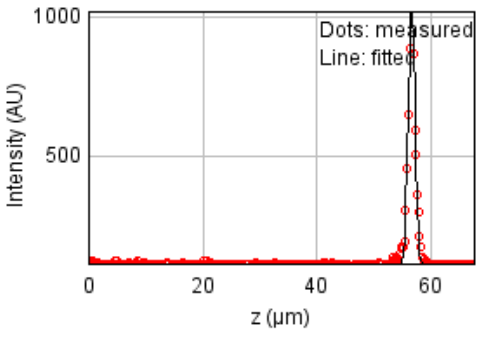




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.975

Parameters:
A = 1248.948 (brightness)
B = 127.727 (background)
a = 0.801 px
b = 0.024 px
c = 0.339 px
xc = 5.557 px
yc = 5.373 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 57793.8037
Standard deviation: 13.72055
R^2: 0.98512
Parameters:
a = 113.37063
b = 1033.69675
c = 56.65879
d = 0.57809

## Bead 2580

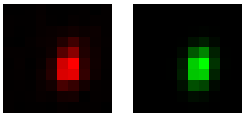
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

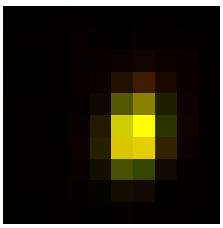
Coordinates : -102 um (x), -51.8 um (y), 57.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 380 nm | 393 nm | 223 nm |
| **max** | 564 nm | 583 nm | 223 nm |
| **z** | 1.13 um | 1.13 um | 885 nm |
| **Asymmetry** | 0.673 | | |
| **Theta** | 79.3° | | |

### XY profile & fitting parameters :

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

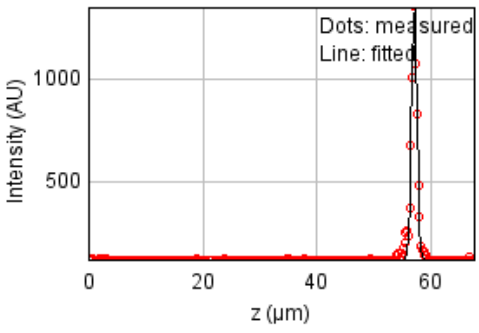




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.984

Parameters:
A = 1549.913 (brightness)
B = 125.854 (background)
a = 0.913 px
b = 0.092 px
c = 0.439 px
xc = 5.586 px
yc = 5.336 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 79348.5202
Standard deviation: 16.07682
R^2: 0.98665
Parameters:
a = 115.03959
b = 1364.66829
c = 57.12795
d = 0.47821

## Bead 2581

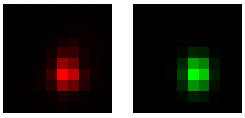
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

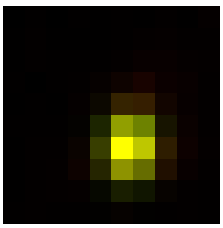
Coordinates : -153 um (x), -73.2 um (y), 57.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 400 nm | 413 nm | 223 nm |
| **max** | 511 nm | 528 nm | 223 nm |
| **z** | 1.34 um | 1.34 um | 885 nm |
| **Asymmetry** | 0.782 | | |
| **Theta** | 85.9° | | |

### XY profile & fitting parameters :

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

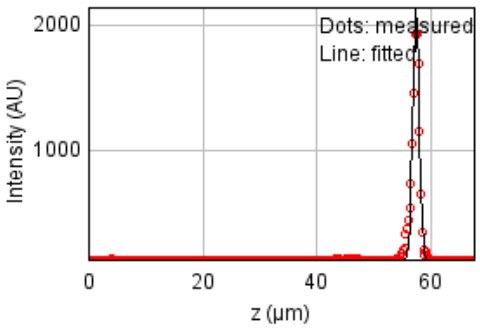




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.982

Parameters:
A = 2305.242 (brightness)
B = 134.497 (background)
a = 0.838 px
b = 0.023 px
c = 0.516 px
xc = 5.352 px
yc = 5.944 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 274175.499
Standard deviation: 29.88444
R^2: 0.98509
Parameters:
a = 114.90957
b = 2136.53508
c = 57.42623
d = 0.56694

## Bead 2582

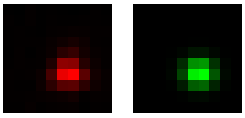
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

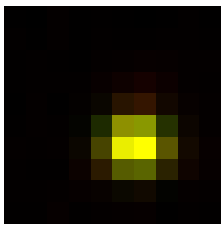
Coordinates : -129 um (x), -80.7 um (y), 57.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 430 nm | 445 nm | 223 nm |
| **max** | 478 nm | 494 nm | 223 nm |
| **z** | 1.3 um | 1.31 um | 885 nm |
| **Asymmetry** | 0.9 | | |
| **Theta** | -3.8° | | |

### XY profile & fitting parameters :

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

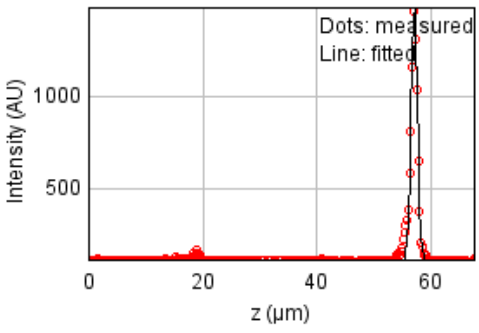




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.982

Parameters:
A = 1545.032 (brightness)
B = 125.642 (background)
a = 0.587 px
b = -0.009 px
c = 0.725 px
xc = 5.559 px
yc = 5.855 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 131622.405
Standard deviation: 20.70598
R^2: 0.98407
Parameters:
a = 117.11138
b = 1487.89942
c = 57.12915
d = 0.55292

## Bead 2583

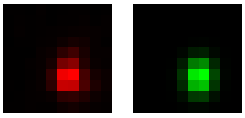
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

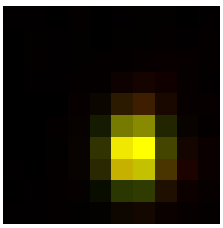
Coordinates : 48.1 um (x), -85.4 um (y), 57.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 438 nm | 453 nm | 223 nm |
| **max** | 545 nm | 563 nm | 223 nm |
| **z** | 1.11 um | 1.12 um | 885 nm |
| **Asymmetry** | 0.805 | | |
| **Theta** | 88.0° | | |

### XY profile & fitting parameters :

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

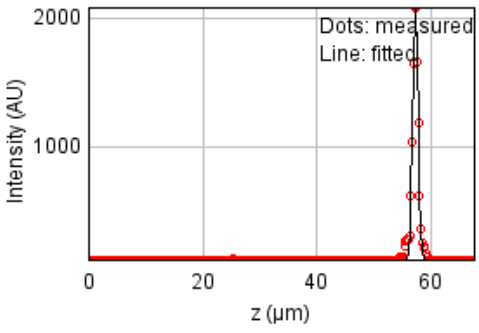




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.980

Parameters:
A = 2318.915 (brightness)
B = 134.709 (background)
a = 0.698 px
b = 0.009 px
c = 0.452 px
xc = 5.569 px
yc = 6.194 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 127219.550
Standard deviation: 20.35672
R^2: 0.99160
Parameters:
a = 117.07712
b = 2129.66853
c = 57.32330
d = 0.47182

## Bead 2584

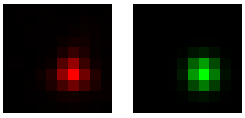
Date : Mon Oct 17 13:30:00 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

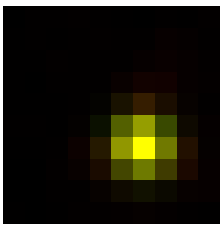
Coordinates : -136 um (x), -92.8 um (y), 56.9 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 456 nm | 472 nm | 223 nm |
| **max** | 471 nm | 487 nm | 223 nm |
| **z** | 1.31 um | 1.31 um | 885 nm |
| **Asymmetry** | 0.968 | | |
| **Theta** | -66.9° | | |

### XY profile & fitting parameters :

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

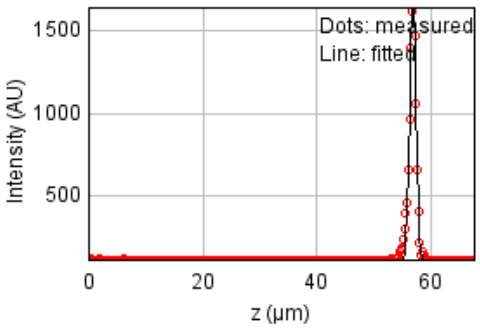




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.980

Parameters:
A = 1502.592 (brightness)
B = 128.027 (background)
a = 0.639 px
b = -0.015 px
c = 0.611 px
xc = 5.912 px
yc = 5.893 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 102193.141
Standard deviation: 18.24491
R^2: 0.99037
Parameters:
a = 113.41133
b = 1668.92232
c = 56.87493
d = 0.55517

## Bead 2585 (Rejected)

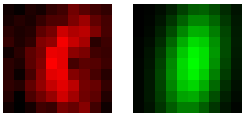
Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

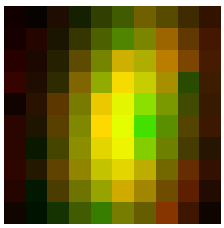
Coordinates : 149 um (x), 84.7 um (y), 55.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 946 nm | 978 nm | 223 nm |
| **max** | 1.85 um | 1.92 um | 223 nm |
| **z** | 1.39 um | 1.39 um | 885 nm |
| **Asymmetry** | 0.511 | | |
| **Theta** | 80.2° | | |

### XY profile & fitting parameters :

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

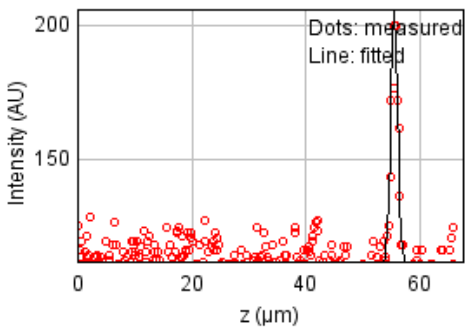




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.784

Parameters:
A = 96.004 (brightness)
B = 115.548 (background)
a = 0.147 px
b = 0.019 px
c = 0.042 px
xc = 5.061 px
yc = 4.899 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 14560.6171
Standard deviation: 6.88685
R^2: 0.74024
Parameters:
a = 111.90115
b = 206.88552
c = 55.53864
d = 0.58901

## Bead 2586

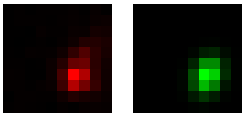
Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

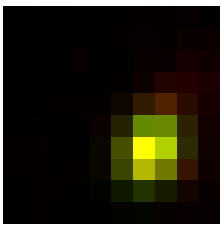
Coordinates : 138 um (x), 70.8 um (y), 57.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 426 nm | 440 nm | 223 nm |
| **max** | 555 nm | 574 nm | 223 nm |
| **z** | 1.45 um | 1.45 um | 885 nm |
| **Asymmetry** | 0.767 | | |
| **Theta** | 68.2° | | |

### XY profile & fitting parameters :

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

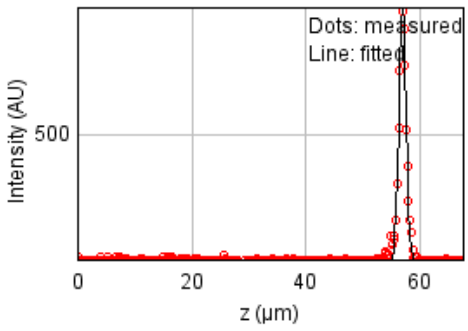




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.938

Parameters:
A = 751.415  (brightness)
B = 123.017  (background)
a = 0.698 px
b = 0.105 px
c = 0.477 px
xc = 6.338 px
yc = 6.083 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 37784.2175
Standard deviation: 11.09395
R^2: 0.98721
Parameters:
a = 111.08418
b = 891.00550
c = 56.99224
d = 0.61512

## Bead 2587

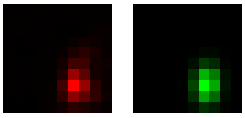
Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

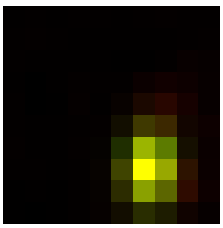
Coordinates : -8.52 um (x), 58.5 um (y), 57.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 392 nm | 405 nm | 223 nm |
| **max** | 576 nm | 595 nm | 223 nm |
| **z** | 1.32 um | 1.33 um | 885 nm |
| **Asymmetry** | 0.68 | | |
| **Theta** | 87.9° | | |

### XY profile & fitting parameters :

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

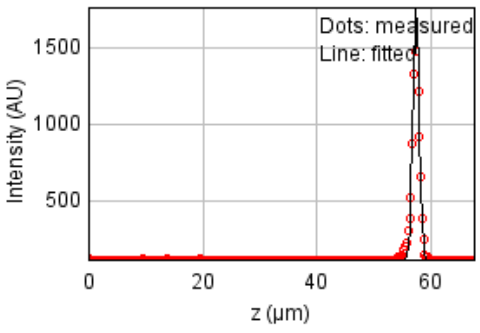




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.959

Parameters:
A = 1648.585 (brightness)
B = 136.789 (background)
a = 0.874 px
b = 0.017 px
c = 0.405 px
xc = 6.262 px
yc = 6.916 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 132002.317
Standard deviation: 20.73584
R^2: 0.98902
Parameters:
a = 115.02513
b = 1758.78781
c = 57.43780
d = 0.56252

## Bead 2588

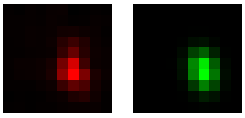
Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

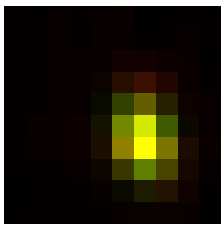
Coordinates : -148 um (x), 44.5 um (y), 57.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 422 nm | 436 nm | 223 nm |
| **max** | 590 nm | 610 nm | 223 nm |
| **z** | 1.33 um | 1.34 um | 885 nm |
| **Asymmetry** | 0.715 | | |
| **Theta** | -78.0° | | |

### XY profile & fitting parameters :

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

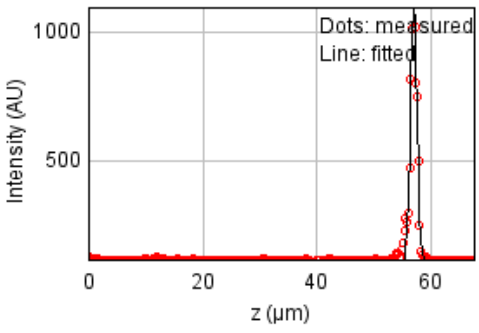




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.963

Parameters:
A = 1001.117 (brightness)
B = 125.687 (background)
a = 0.738 px
b = -0.075 px
c = 0.401 px
xc = 5.929 px
yc = 5.611 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 79622.9208
Standard deviation: 16.10460
R^2: 0.98179
Parameters:
a = 111.49606
b = 1096.25787
c = 57.03498
d = 0.56632

## Bead 2589

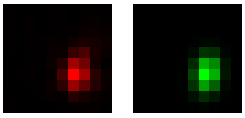
Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

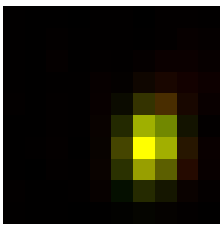
Coordinates : 1.6 um (x), 32.6 um (y), 57.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 395 nm | 409 nm | 223 nm |
| **max** | 567 nm | 586 nm | 223 nm |
| **z** | 1.29 um | 1.3 um | 885 nm |
| **Asymmetry** | 0.697 | | |
| **Theta** | 81.5° | | |

### XY profile & fitting parameters :

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

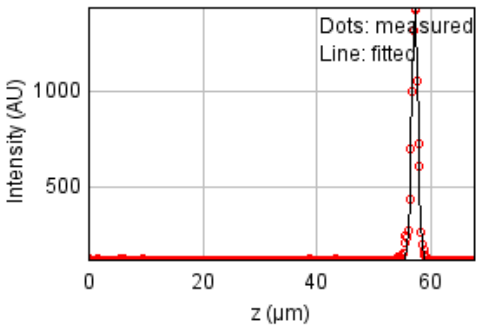




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.976

Parameters:
A = 1315.271 (brightness)
B = 127.852 (background)
a = 0.849 px
b = 0.065 px
c = 0.427 px
xc = 6.282 px
yc = 5.898 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 67444.7565
Standard deviation: 14.82194
R^2: 0.99107
Parameters:
a = 115.38921
b = 1435.98599
c = 57.22935
d = 0.54857

## Bead 2590

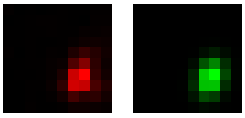
Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

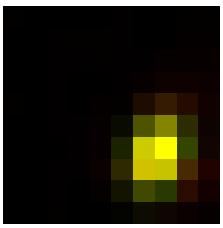
Coordinates : 41.7 um (x), 23.3 um (y), 57.6 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 407 nm | 420 nm | 223 nm |
| **max** | 558 nm | 576 nm | 223 nm |
| **z** | 1.04 um | 1.04 um | 885 nm |
| **Asymmetry** | 0.729 | | |
| **Theta** | 71.8° | | |

### XY profile & fitting parameters :

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

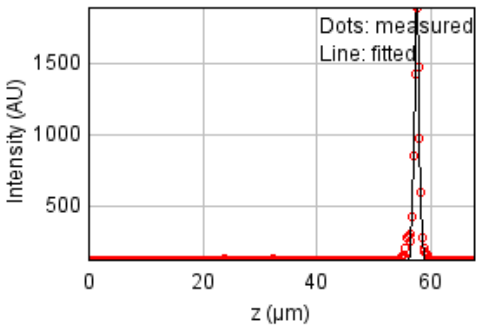




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.971

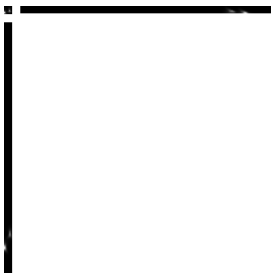
Parameters:
A = 2027.862 (brightness)
B = 133.154 (background)
a = 0.774 px
b = 0.113 px
c = 0.469 px
xc = 6.606 px
yc = 6.304 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 120660.220
Standard deviation: 19.82499
R^2: 0.98952
Parameters:
a = 116.97085
b = 1927.71839
c = 57.55116
d = 0.44166

## Bead 2591 (Rejected)



Date : Mon Oct 17 13:30:01 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

Coordinates : -126 um (x), 19.8 um (y), 60.7 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

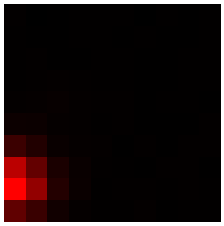
| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 0 | 0 | 223 nm |
| **max** | 0 | 0 | 223 nm |
| **z** | 1.21 um | 1.21 um | 885 nm |
| **Asymmetry** | 0.0 | | |
| **Theta** | 0.0° | | |

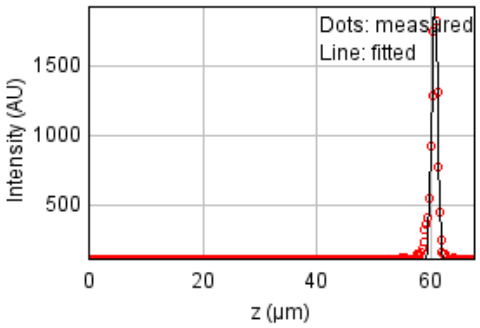
**XY profile & fitting parameters :**

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

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

**Z profile & fitting parameters:**






Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 251317.968
Standard deviation: 28.61163
R^2: 0.98128
Parameters:
a = 116.66032
b = 1927.03665
c = 60.70001
d = 0.51261

## Bead 2592

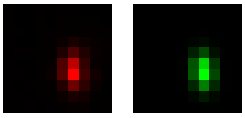
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

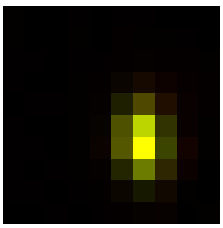
Coordinates : -49.3 um (x), -373 nm (y), 57.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 334 nm | 346 nm | 223 nm |
| **max** | 547 nm | 565 nm | 223 nm |
| **z** | 1.23 um | 1.23 um | 885 nm |
| **Asymmetry** | 0.612 | | |
| **Theta** | -85.7° | | |

### XY profile & fitting parameters :

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

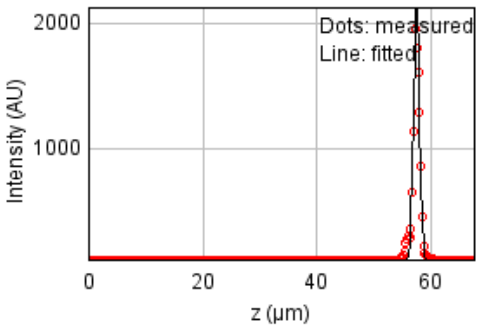




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.988

Parameters:
A = 2422.273 (brightness)
B = 130.205 (background)
a = 1.196 px
b = -0.056 px
c = 0.454 px
xc = 5.939 px
yc = 5.694 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 842243.983
Standard deviation: 52.37810
R^2: 0.95307
Parameters:
a = 116.18644
b = 2164.13910
c = 57.51567
d = 0.52034

## Bead 2593

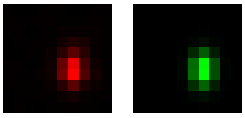
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

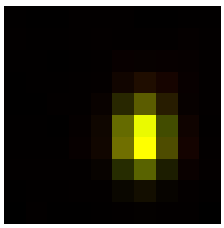
Coordinates : -79.7 um (x), -4.52 um (y), 57.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 362 nm | 374 nm | 223 nm |
| **max** | 525 nm | 543 nm | 223 nm |
| **z** | 1.19 um | 1.2 um | 885 nm |
| **Asymmetry** | 0.69 | | |
| **Theta** | 89.0° | | |

### XY profile & fitting parameters :

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

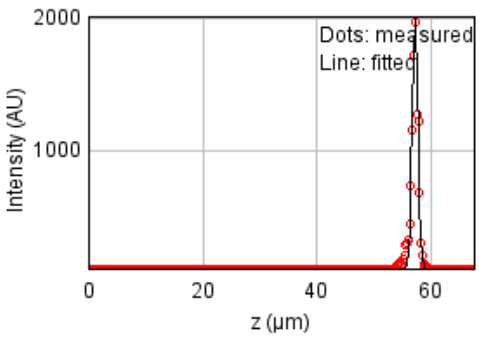




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.990

Parameters:
A = 2230.099  (brightness)
B = 131.459  (background)
a = 1.024 px
b = 0.009 px
c = 0.487 px
xc = 5.911 px
yc = 5.526 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 267301.109
Standard deviation: 29.50742
R^2: 0.98195
Parameters:
a = 115.65081
b = 2028.11988
c = 57.26630
d = 0.50704

## Bead 2594

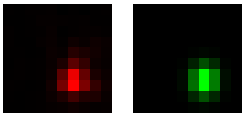
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

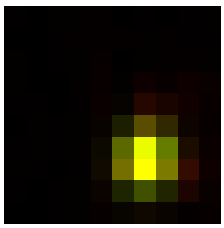
Coordinates : 28.8 um (x), -3.85 um (y), 57.5 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 412 nm | 426 nm | 223 nm |
| **max** | 479 nm | 495 nm | 223 nm |
| **z** | 1.28 um | 1.29 um | 885 nm |
| **Asymmetry** | 0.86 | | |
| **Theta** | 85.5° | | |

### XY profile & fitting parameters :

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

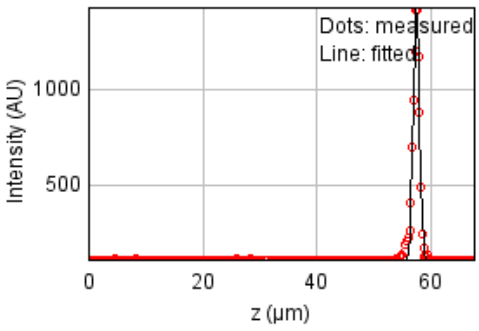




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.968

Parameters:
A = 1413.506 (brightness)
B = 127.081 (background)
a = 0.788 px
b = 0.016 px
c = 0.585 px
xc = 6.044 px
yc = 6.510 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 56806.1219
Standard deviation: 13.60280
R^2: 0.99241
Parameters:
a = 114.08592
b = 1433.48379
c = 57.48517
d = 0.54537

## Bead 2595

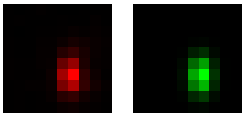
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

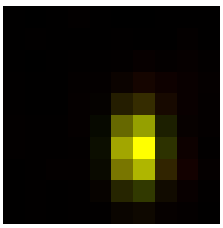
Coordinates : -27.3 um (x), -6.62 um (y), 57.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 361 nm | 374 nm | 223 nm |
| **max** | 575 nm | 595 nm | 223 nm |
| **z** | 1.08 um | 1.08 um | 885 nm |
| **Asymmetry** | 0.628 | | |
| **Theta** | -89.9° | | |

### XY profile & fitting parameters :

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

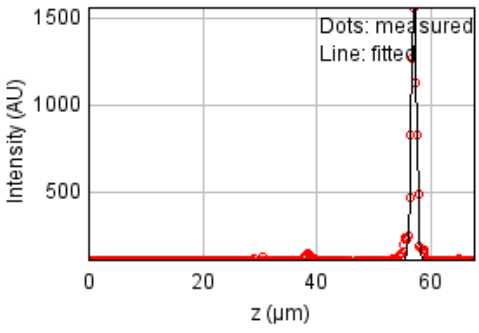




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.990

Parameters:
A = 1529.667 (brightness)
B = 124.684 (background)
a = 1.027 px
b = -0.001 px
c = 0.405 px
xc = 5.710 px
yc = 6.077 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 95078.6726
Standard deviation: 17.59837
R^2: 0.98798
Parameters:
a = 117.08611
b = 1589.44371
c = 57.07736
d = 0.45837

## Bead 2596

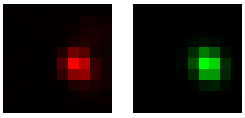
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

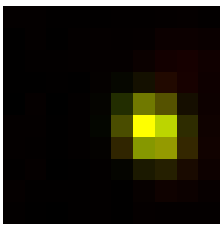
Coordinates : 80.6 um (x), -19.0 um (y), 57.0 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 419 nm | 433 nm | 223 nm |
| **max** | 490 nm | 506 nm | 223 nm |
| **z** | 1.25 um | 1.25 um | 885 nm |
| **Asymmetry** | 0.855 | | |
| **Theta** | -52.3° | | |

### XY profile & fitting parameters :

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

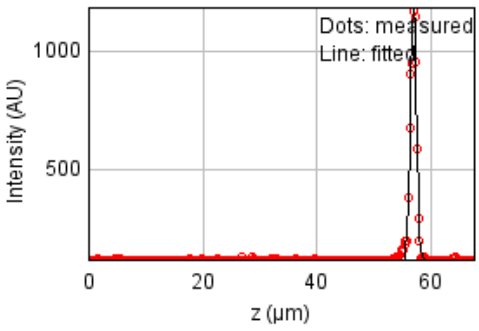




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.977

Parameters:
A = 1094.554 (brightness)
B = 125.680 (background)
a = 0.689 px
b = -0.100 px
c = 0.637 px
xc = 6.388 px
yc = 5.150 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 72431.8854
Standard deviation: 15.36016
R^2: 0.98495
Parameters:
a = 113.26967
b = 1182.71888
c = 56.98134
d = 0.52925

## Bead 2597

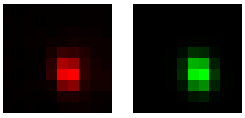
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

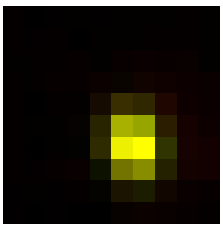
Coordinates : 136 um (x), -37.6 um (y), 57.1 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 399 nm | 412 nm | 223 nm |
| **max** | 516 nm | 533 nm | 223 nm |
| **z** | 1.45 um | 1.46 um | 885 nm |
| **Asymmetry** | 0.773 | | |
| **Theta** | -78.4° | | |

### XY profile & fitting parameters :

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

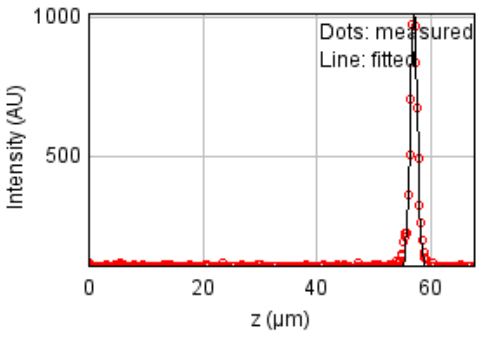




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.984

Parameters:
A = 1193.884 (brightness)
B = 126.346 (background)
a = 0.829 px
b = -0.067 px
c = 0.518 px
xc = 5.528 px
yc = 5.863 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 50866.8668
Standard deviation: 12.87207
R^2: 0.98732
Parameters:
a = 111.72579
b = 1019.08434
c = 57.05723
d = 0.61717

## Bead 2598

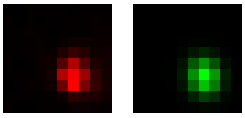
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

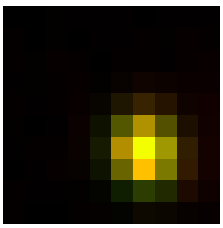
Coordinates : 116 um (x), -43.2 um (y), 57.2 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 490 nm | 506 nm | 223 nm |
| **max** | 566 nm | 585 nm | 223 nm |
| **z** | 1.45 um | 1.45 um | 885 nm |
| **Asymmetry** | 0.866 | | |
| **Theta** | -76.8° | | |

### XY profile & fitting parameters :

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

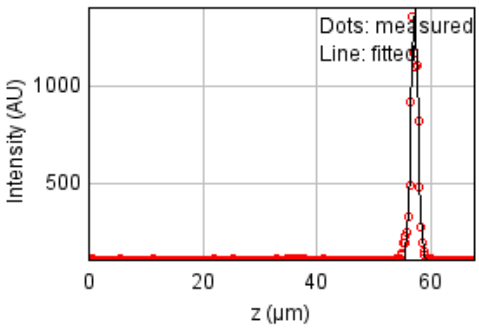




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.961

Parameters:
A = 1136.072 (brightness)
B = 118.126 (background)
a = 0.552 px
b = -0.031 px
c = 0.426 px
xc = 6.038 px
yc = 6.163 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 317309.495
Standard deviation: 32.14936
R^2: 0.96192
Parameters:
a = 111.74102
b = 1404.78252
c = 57.18196
d = 0.61481

## Bead 2599

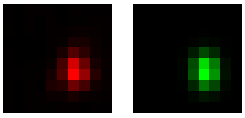
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif ( Nikon 40x1.15 water )
Frame size : 10 pixels

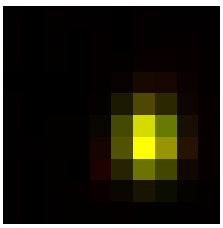
Coordinates : -121 um (x), -96.3 um (y), 57.3 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 401 nm | 415 nm | 223 nm |
| **max** | 531 nm | 549 nm | 223 nm |
| **z** | 1.36 um | 1.37 um | 885 nm |
| **Asymmetry** | 0.755 | | |
| **Theta** | -86.2° | | |

### XY profile & fitting parameters :

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

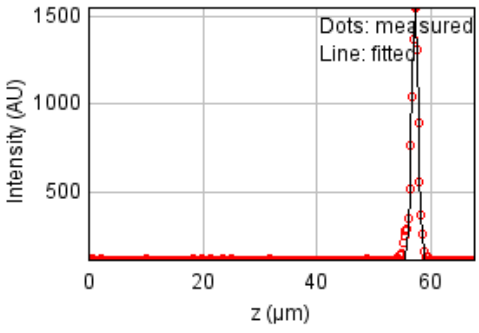




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.985

Parameters:
A = 1507.004 (brightness)
B = 126.189 (background)
a = 0.832 px
b = -0.023 px
c = 0.477 px
xc = 6.167 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: 96646.2901
Standard deviation: 17.74285
R^2: 0.98981
Parameters:
a = 114.80453
b = 1554.55255
c = 57.25170
d = 0.57956

## Bead 2600

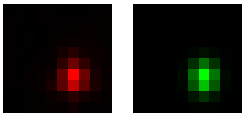
Date : Mon Oct 17 13:30:02 PDT 2022
Origin : data_traditional.tif  ( Nikon 40x1.15 water )
Frame size : 10 pixels

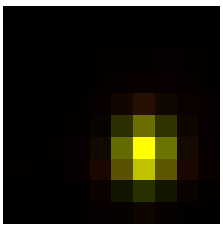
Coordinates : -125 um (x), -12.8 um (y), 57.4 um (z)
Corresponding bead : Not found

| FWHM | Non corrected | Corrected | Theoretical |
|---|---|---|---|
| **min** | 402 nm | 416 nm | 223 nm |
| **max** | 489 nm | 505 nm | 223 nm |
| **z** | 1.2 um | 1.21 um | 885 nm |
| **Asymmetry** | 0.824 | | |
| **Theta** | 89.0° | | |

### XY profile & fitting parameters :

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

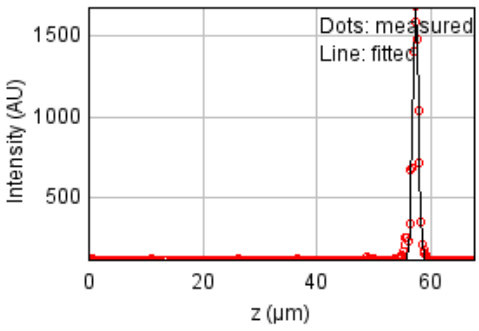




Fitted on i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B
R^2 = 0.986

Parameters:
A = 1594.273  (brightness)
B = 127.174  (background)
a = 0.828 px
b = 0.005 px
c = 0.562 px
xc = 6.019 px
yc = 6.250 px

### Z profile & fitting parameters:




Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 151463.429
Standard deviation: 22.21185
R^2: 0.98498
Parameters:
a = 114.66362
b = 1688.05985
c = 57.35533
d = 0.51156