Bead 501

Date : Mon Oct 17 13:51:01 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

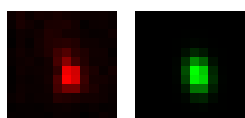Coordinates : 56.8 um (x), -50.6 um (y), 10.4 um (z)
Corresponding bead : Not found

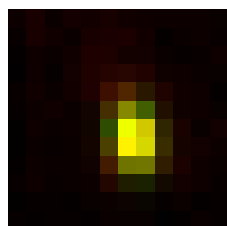| FWHM	Non corrected	Corrected	Theoretical
min	428 nm	445 nm	270 nm
max	639 nm	666 nm	270 nm
z	2.6 um	2.61 um	1.3 um
Asymmetry	0.669		
Theta	-80.7°		

XY profile & fitting parameters :

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

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

Parameters:
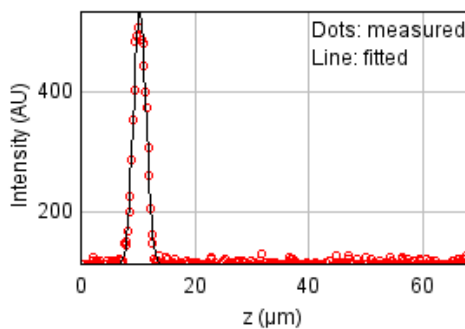 A = 436.818   (brightness)
 B = 123.361   (background)
 a = 0.723 px
 b = -0.065 px
 c = 0.339 px

 xc = 6.374 px
 yc = 6.490 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20993.8370
Standard deviation: 8.26945
R^2: 0.98606
Parameters:
 a = 112.86131
 b = 533.79623
 c = 10.44173
 d = 1.10398

Bead 502

Date : Mon Oct 17 13:51:01 PDT 2022
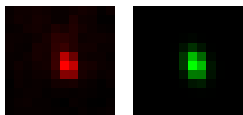Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -15.5 um (x), 43.0 um (y), 10.1 um (z)
Corresponding bead : Not found

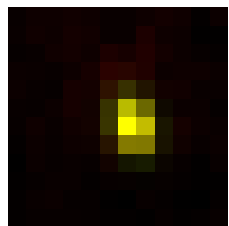| FWHM	Non corrected	Corrected	Theoretical
min	369 nm	385 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.698		
Theta	-73.1°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.956$

Parameters:
 A = 439.035   (brightness)
 B = 121.163   (background)
 a = 0.941 px
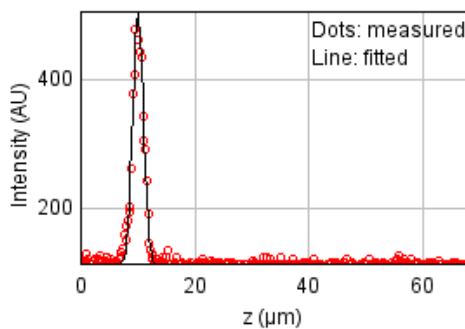 b = -0.141 px
 c = 0.522 px

xc = 6.320 px
yc = 5.884 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24747.1827
Standard deviation: 8.97829
R^2: 0.97780
Parameters:
 a = 113.68822
 b = 504.38120
 c = 10.14978
 d = 0.93183

Bead 503

Date : Mon Oct 17 13:51:01 PDT 2022
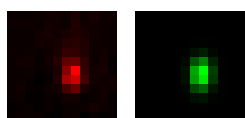Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 40.2 um (x), 32.4 um (y), 10.2 um (z)
Corresponding bead : Not found

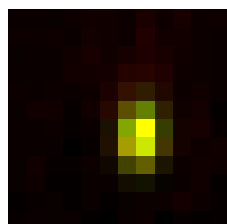| FWHM	Non corrected	Corrected	Theoretical
min	381 nm	396 nm	270 nm
max	583 nm	607 nm	270 nm
z	2.72 um	2.73 um	1.3 um
Asymmetry	0.653		
Theta	87.8°		

XY profile & fitting parameters :

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

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

Parameters:
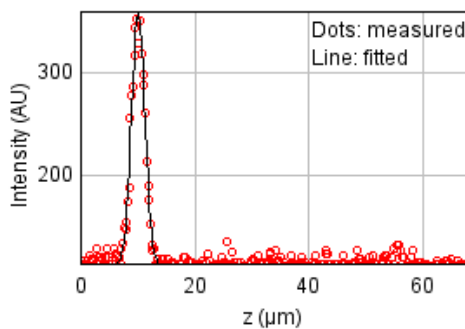 A = 339.021   (brightness)
 B = 121.734   (background)
 a = 0.926 px
 b = 0.020 px
 c = 0.395 px

xc = 6.724 px
yc = 6.391 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 15912.9725
Standard deviation: 7.19957
R^2: 0.97046
Parameters:
 a = 114.15753
 b = 358.76454
 c = 10.16907
 d = 1.15410

Bead 504

Date : Mon Oct 17 13:51:01 PDT 2022
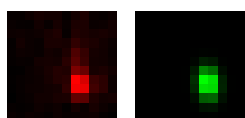Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 30.2 um (x), 6.84 um (y), 10.3 um (z)
Corresponding bead : Not found

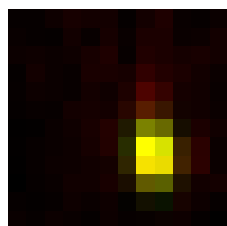| FWHM	Non corrected	Corrected	Theoretical
min	381 nm	397 nm	270 nm
max	583 nm	607 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.653		
Theta	-85.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.916$

Parameters:
A = 421.383   (brightness)
B = 125.700   (background)
a = 0.922 px
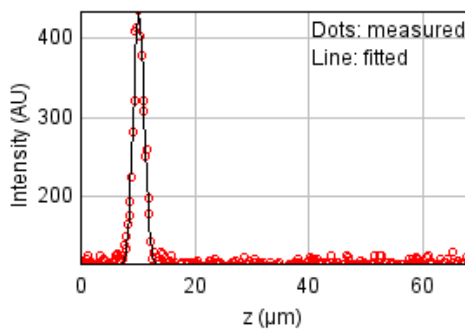b = -0.045 px
c = 0.398 px

xc = 7.454 px
yc = 7.400 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 17102.1825
Standard deviation: 7.46374
R^2: 0.97765
Parameters:
 a = 113.75880
 b = 434.94274
 c = 10.27226
 d = 0.94693

Bead 505

Date : Mon Oct 17 13:51:02 PDT 2022
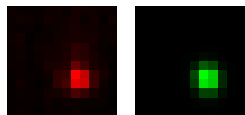Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -31.8 um (x), -5.92 um (y), 10.3 um (z)
Corresponding bead : Not found

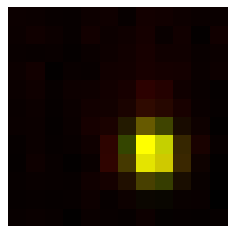| FWHM	Non corrected	Corrected	Theoretical
min	419 nm	437 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.01 um	2.02 um	1.3 um
Asymmetry	0.865		
Theta	-77.9°		

XY profile & fitting parameters :

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

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

$R^2 = 0.951$

Parameters:
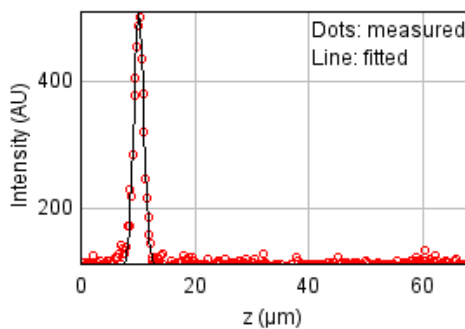A = 527.041   (brightness)
B = 121.222   (background)
a = 0.755 px
b = -0.039 px
c = 0.579 px

xc = 7.388 px
yc = 7.429 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 22093.6477
Standard deviation: 8.48329
R^2: 0.97890
Parameters:
 a = 113.98897
 b = 509.19981
 c = 10.27513
 d = 0.85242

Bead 506 (Rejected)

Date : Mon Oct 17 13:51:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

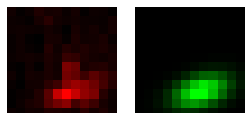Coordinates : 29.8 um (x), -15.9 um (y), 7.45 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

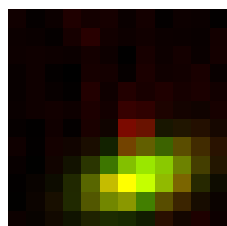| FWHM	Non corrected	Corrected	Theoretical
min	560 nm	583 nm	270 nm
max	1.04 um	1.08 um	270 nm
z	3.89 um	3.91 um	1.3 um
Asymmetry	0.539		
Theta	18.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.842$

Parameters:
A = 184.175   (brightness)
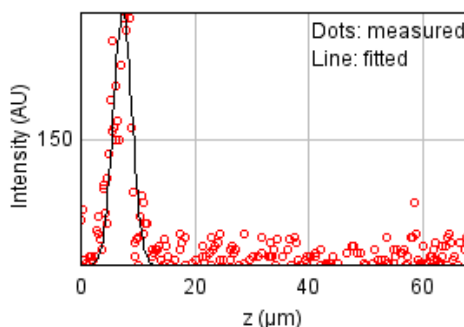B = 122.216   (background)
a = 0.155 px
b = 0.091 px
c = 0.398 px

xc = 6.664 px
yc = 8.702 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18141.1911
Standard deviation: 7.68712
R^2: 0.78441
Parameters:
a = 113.37467
b = 187.06172
c = 7.45150
d = 1.65156

Bead 507

Date : Mon Oct 17 13:51:02 PDT 2022
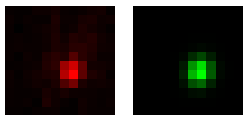Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -87.8 um (x), -35.0 um (y), 10.2 um (z)
Corresponding bead : Not found

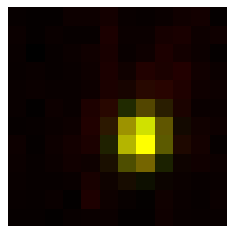| FWHM	Non corrected	Corrected	Theoretical
min	437 nm	455 nm	270 nm
max	510 nm	531 nm	270 nm
z	2.42 um	2.43 um	1.3 um
Asymmetry	0.857		
Theta	76.7°		

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 = 393.424 (brightness)
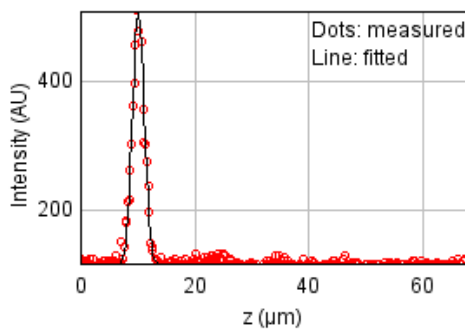B = 120.334 (background)
a = 0.694 px
b = 0.042 px
c = 0.527 px

xc = 6.767 px
yc = 6.638 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 33535.1042
Standard deviation: 10.45155
R^2: 0.97359
Parameters:
a = 114.33289
b = 511.90276
c = 10.20486
d = 1.02597

Bead 508 (Rejected)

Date : Mon Oct 17 13:51:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
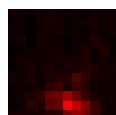Frame size : 12 pixels

Coordinates : -95.7 um (x), -66.6 um (y), 8.17 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

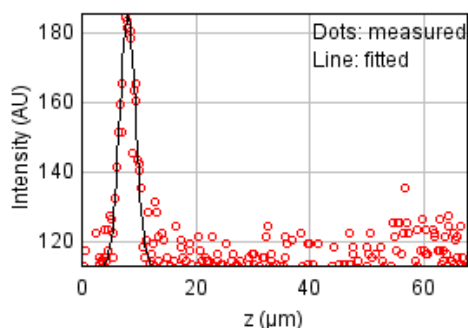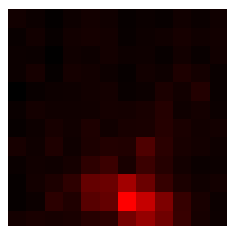| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.26 um	3.27 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14196.2048
Standard deviation: 6.80013
R^2: 0.79272
Parameters:
 a = 113.14118
 b = 185.59133
 c = 8.17009
 d = 1.38406

Bead 509 (Rejected)

Date : Mon Oct 17 13:51:02 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
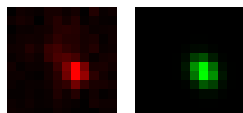Frame size : 12 pixels

Coordinates : 132 um (x), -86.2 um (y), 10.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

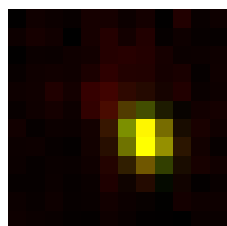| FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	531 nm	553 nm	270 nm
z	2.67 um	2.69 um	1.3 um
Asymmetry	0.789		
Theta	-58.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.891$

Parameters:
 A = 331.854   (brightness)
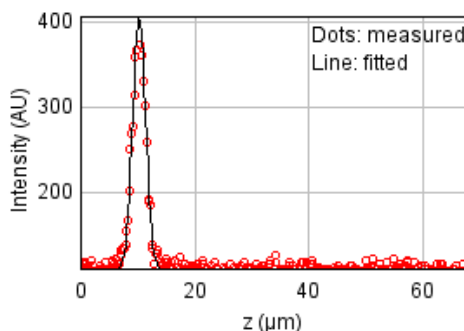 B = 122.283   (background)
 a = 0.683 px
 b = -0.129 px
 c = 0.557 px

xc = 6.994 px
yc = 6.531 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20365.8756
Standard deviation: 8.14484
R^2: 0.97351
Parameters:
 a = 110.83171
 b = 405.72368
 c = 10.33755
 d = 1.13569

Bead 510 (Rejected)

Date : Mon Oct 17 13:51:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
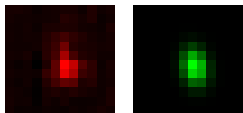Frame size : 12 pixels

Coordinates : 61.0 um (x), -86.6 um (y), 10.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

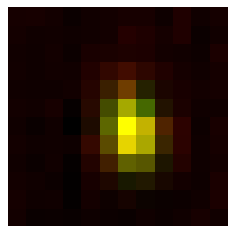| FWHM	Non corrected	Corrected	Theoretical
min	456 nm	475 nm	270 nm
max	681 nm	709 nm	270 nm
z	2.38 um	2.39 um	1.3 um
Asymmetry	0.67		
Theta	-80.1°		

XY profile & fitting parameters :

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

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

R^2 = 0.924

Parameters:
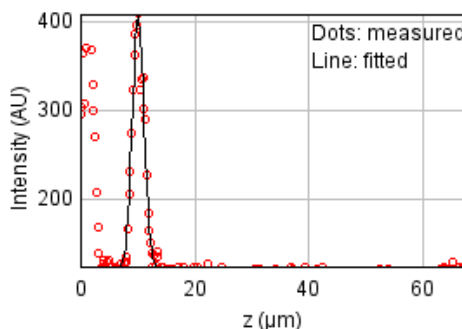A = 312.533   (brightness)
B = 120.750   (background)
a = 0.634 px
b = -0.060 px
c = 0.300 px

xc = 6.241 px
yc = 6.240 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 723650.937
Standard deviation: 48.55069
R^2: 0.46135
Parameters:
a = 124.37541
b = 407.64867
c = 10.16625
d = 1.01234

Bead 511

Date : Mon Oct 17 13:51:03 PDT 2022
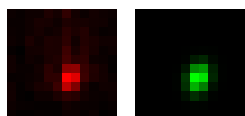Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 120 um (x), 95.4 um (y), 10.5 um (z)
Corresponding bead : Not found

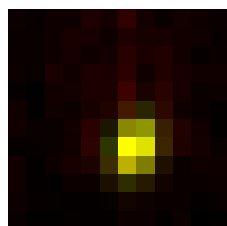| FWHM	Non corrected	Corrected	Theoretical
min	389 nm	406 nm	270 nm
max	536 nm	558 nm	270 nm
z	2.07 um	2.07 um	1.3 um
Asymmetry	0.727		
Theta	73.5°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 349.271   (brightness)
 B = 121.318   (background)
 a = 0.851 px
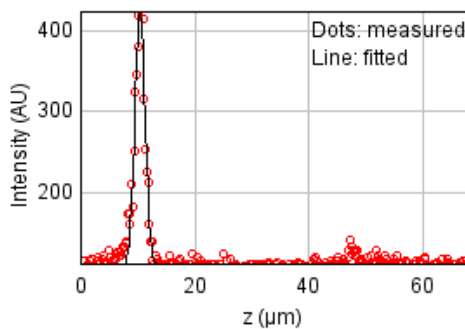 b = 0.114 px
 c = 0.502 px

 xc = 6.424 px
 yc = 7.039 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28039.1774
Standard deviation: 9.55682
R^2: 0.95879
Parameters:
 a = 112.52506
 b = 423.58195
 c = 10.48770
 d = 0.87703

Bead 512

Date : Mon Oct 17 13:51:03 PDT 2022
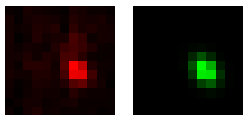Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -114 um (x), 81.6 um (y), 10.2 um (z)
Corresponding bead : Not found

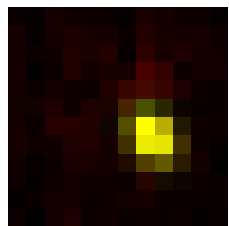| FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	520 nm	541 nm	270 nm
z	2.55 um	2.56 um	1.3 um
Asymmetry	0.741		
Theta	-57.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.913$

Parameters:
 A = 326.967   (brightness)
 B = 121.070   (background)
 a = 0.788 px
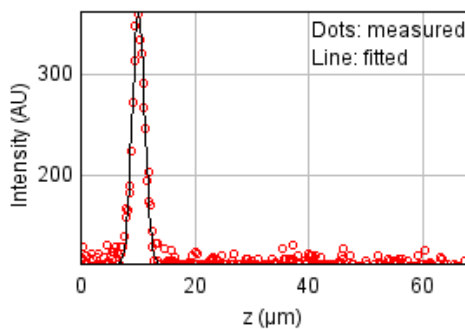 b = -0.185 px
 c = 0.614 px

xc = 7.378 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: 18866.6638
Standard deviation: 7.83932
R^2: 0.96490
Parameters:
 a = 112.33420
 b = 363.50146
 c = 10.21902
 d = 1.08153

Bead 513 (Rejected)

Date : Mon Oct 17 13:51:03 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
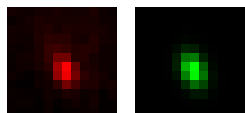Frame size : 12 pixels

Coordinates : 58.5 um (x), 67.8 um (y), 13.2 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

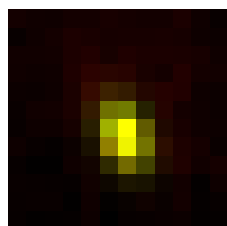| FWHM	Non corrected	Corrected	Theoretical
min	422 nm	440 nm	270 nm
max	632 nm	659 nm	270 nm
z	5.27 um	5.29 um	1.3 um
Asymmetry	0.668		
Theta	-68.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 424.020   (brightness)
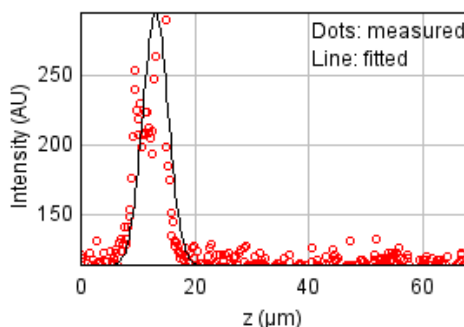 B = 129.218   (background)
 a = 0.699 px
 b = -0.140 px
 c = 0.390 px
 xc = 5.836 px
 yc = 6.378 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 145843.428
Standard deviation: 21.79587
R^2: 0.78091
Parameters:
 a = 114.15781
 b = 294.93118
 c = 13.20611
 d = 2.23597

Bead 514

Date : Mon Oct 17 13:51:03 PDT 2022
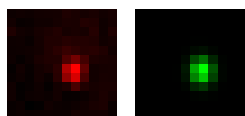Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

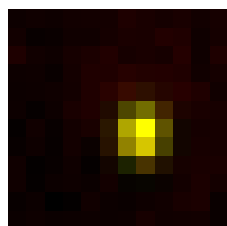Coordinates : 101 um (x), 60.8 um (y), 10.4 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	415 nm	433 nm	270 nm
max	495 nm	515 nm	270 nm
z	2.1 um	2.11 um	1.3 um
Asymmetry	0.84		
Theta	89.1°		

XY profile & fitting parameters :

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

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

Parameters:
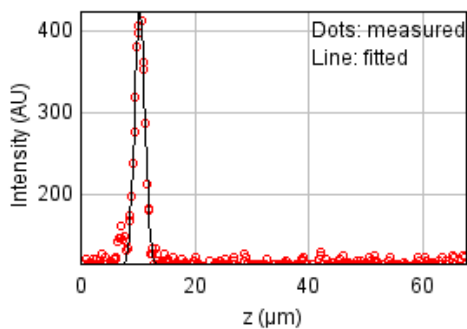 A = 306.191   (brightness)
 B = 120.022   (background)
 a = 0.778 px
 b = 0.004 px
 c = 0.549 px

xc = 6.775 px
yc = 6.272 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23559.3089
Standard deviation: 8.76016
R^2: 0.96603
Parameters:
 a = 114.12084
 b = 426.70080
 c = 10.44406
 d = 0.89283

Bead 515

Date : Mon Oct 17 13:51:04 PDT 2022
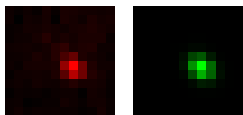Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -129 um (x), 55.7 um (y), 10.6 um (z)
Corresponding bead : Not found

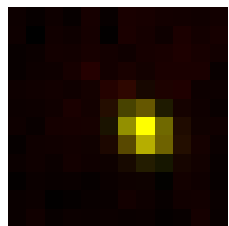| FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	483 nm	503 nm	270 nm
z	2.18 um	2.18 um	1.3 um
Asymmetry	0.806		
Theta	-44.5°		

XY profile & fitting parameters :

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

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

Parameters:
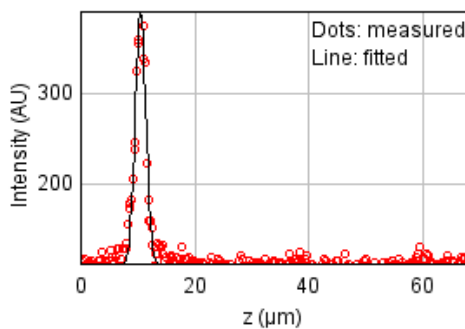 A = 295.347   (brightness)
 B = 118.393   (background)
 a = 0.727 px
 b = -0.155 px
 c = 0.732 px

 xc = 6.941 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: 25694.5280
Standard deviation: 9.14853
R^2: 0.95499
Parameters:
 a = 112.93507
 b = 390.37940
 c = 10.58647
 d = 0.92372

Bead 516

Date : Mon Oct 17 13:51:04 PDT 2022
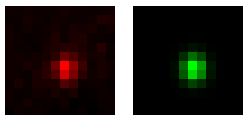Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -113 um (x), 16.5 um (y), 10.3 um (z)
Corresponding bead : Not found

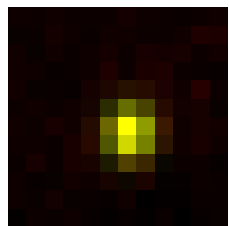| FWHM	Non corrected	Corrected	Theoretical
min	438 nm	456 nm	270 nm
max	513 nm	535 nm	270 nm
z	3.22 um	3.23 um	1.3 um
Asymmetry	0.854		
Theta	88.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.948$

Parameters:
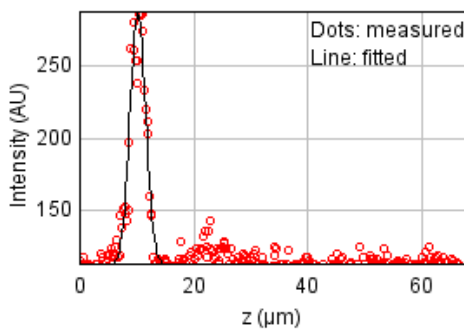A = 278.779   (brightness)
B = 118.975   (background)
a = 0.698 px
b = 0.004 px
c = 0.509 px

xc = 6.144 px
yc = 6.329 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 31863.4696
Standard deviation: 10.18773
R^2: 0.90688
Parameters:
a = 113.05451
b = 287.31728
c = 10.29046
d = 1.36600

Bead 517

Date : Mon Oct 17 13:51:04 PDT 2022
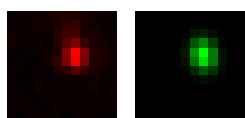Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 15.8 um (x), 15.7 um (y), 11.1 um (z)
Corresponding bead : Not found

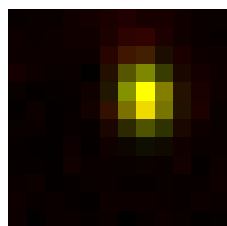| FWHM	Non corrected	Corrected	Theoretical
min	456 nm	475 nm	270 nm
max	586 nm	611 nm	270 nm
z	2.11 um	2.11 um	1.3 um
Asymmetry	0.777		
Theta	-79.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 400.752   (brightness)
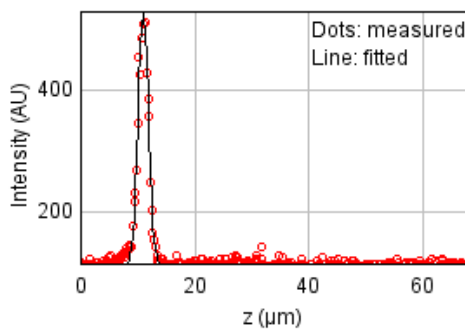 B = 121.852   (background)
 a = 0.638 px
 b = -0.046 px
 c = 0.399 px

xc = 6.961 px
yc = 4.296 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25438.1503
Standard deviation: 9.10277
R^2: 0.97917
Parameters:
 a = 113.96148
 b = 531.27247
 c = 11.07112
 d = 0.89424

Bead 518 (Rejected)

Date : Mon Oct 17 13:51:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
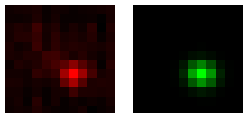
Coordinates : 145 um (x), 6.92 um (y), 9.98 um (z)
Corresponding bead : Not found
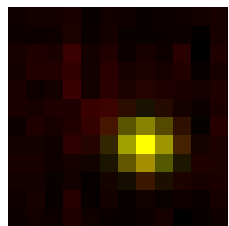Reason of rejection : R or C parameter off limits.

FWHM	Non corrected	Corrected	Theoretical
min	461 nm	481 nm	270 nm
max	523 nm	544 nm	270 nm
z	2.83 um	2.84 um	1.3 um
Asymmetry	0.883		
Theta	-9.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.870$

Parameters:
 A = 155.804   (brightness)
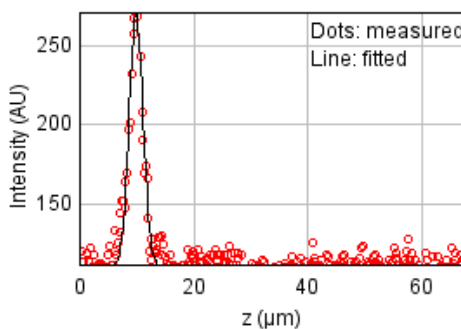 B = 117.066   (background)
 a = 0.495 px
 b = -0.023 px
 c = 0.627 px

xc = 6.970 px
yc = 7.042 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16127.3104
Standard deviation: 7.24789
R^2: 0.93470
Parameters:
 a = 111.38896
 b = 270.81815
 c = 9.98215
 d = 1.20297

Bead 519

Date : Mon Oct 17 13:51:04 PDT 2022
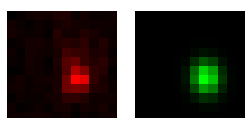Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 66.5 um (x), -11.1 um (y), 10.3 um (z)
Corresponding bead : Not found

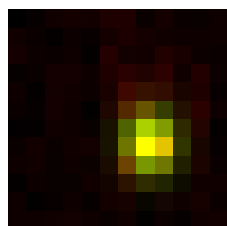| FWHM	Non corrected	Corrected	Theoretical
min	506 nm	527 nm	270 nm
max	612 nm	638 nm	270 nm
z	2.48 um	2.5 um	1.3 um
Asymmetry	0.827		
Theta	-85.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.900$

Parameters:
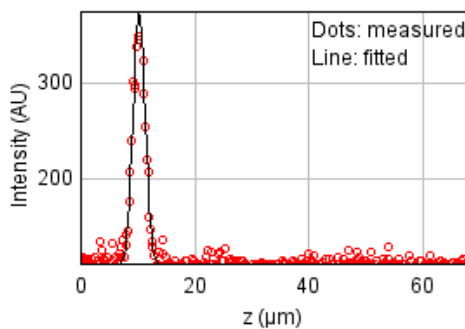A = 222.045   (brightness)
B = 116.266   (background)
a = 0.522 px
b = -0.013 px
c = 0.359 px

xc = 7.238 px
yc = 6.780 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21290.9836
Standard deviation: 8.32777
R^2: 0.96267
Parameters:
a = 112.28805
b = 373.72122
c = 10.33331
d = 1.05525

Bead 520 (Rejected)

Date : Mon Oct 17 13:51:04 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

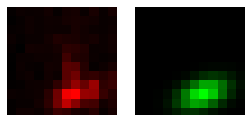Coordinates : 31.0 um (x), -24.7 um (y), 7.58 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

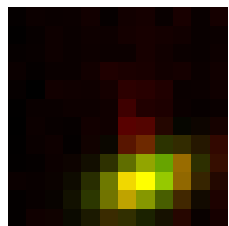| FWHM	Non corrected	Corrected	Theoretical
min	508 nm	529 nm	270 nm
max	914 nm	952 nm	270 nm
z	3.32 um	3.33 um	1.3 um
Asymmetry	0.556		
Theta	20.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.847$

Parameters:
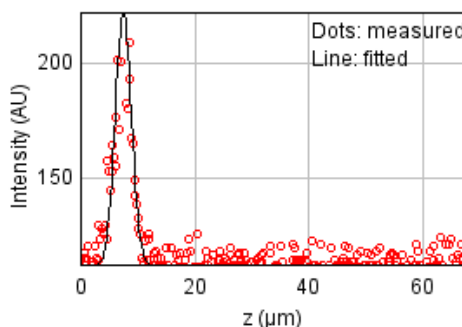A = 277.261   (brightness)
B = 121.565   (background)
a = 0.204 px
b = 0.117 px
c = 0.477 px
xc = 6.922 px
yc = 8.977 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18000.9995
Standard deviation: 7.65736
R^2: 0.87622
Parameters:
a = 112.37012
b = 222.41786
c = 7.57824
d = 1.41005

Bead 521 (Rejected)

Date : Mon Oct 17 13:51:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

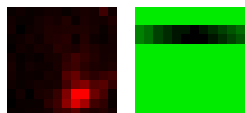Coordinates : 65.1 um (x), -29.0 um (y), 7.67 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

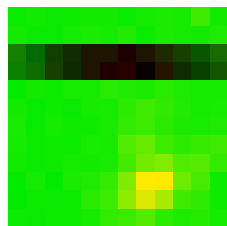| FWHM	Non corrected	Corrected	Theoretical
min	132 nm	138 nm	270 nm
max	2.45 um	2.55 um	270 nm
z	3.29 um	3.3 um	1.3 um
Asymmetry	0.054		
Theta	-0.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.047$

Parameters:
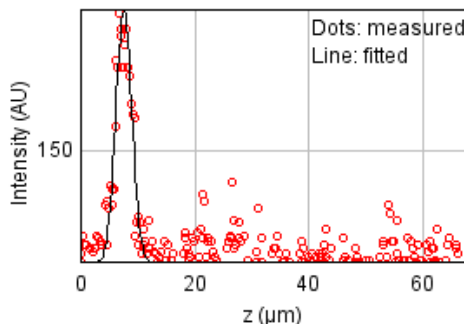 A = -71.878   (brightness)
 B = 133.760   (background)
 a = -0.022 px
 b = -0.007 px
 c = 7.655 px

xc = 5.931 px
yc = 2.504 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15192.9731
Standard deviation: 7.03481
R^2: 0.81825
Parameters:
 a = 114.14269
 b = 195.10385
 c = 7.66560
 d = 1.39742

Bead 522 (Rejected)

Date : Mon Oct 17 13:51:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

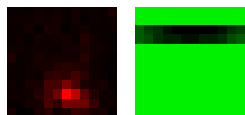Coordinates : -94.4 um (x), -38.7 um (y), 7.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	131 nm	136 nm	270 nm
max	3.21 um	3.34 um	270 nm
z	3.83 um	3.84 um	1.3 um
Asymmetry	0.041		
Theta	0.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.037$

Parameters:
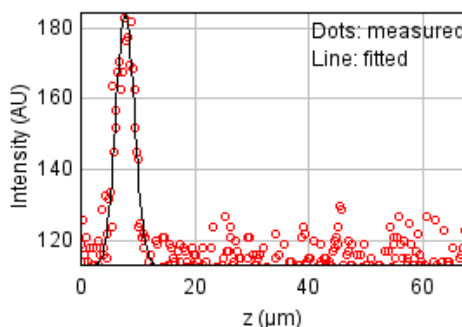A = -109.871   (brightness)
B = 135.827   (background)
a = -0.013 px
b = 0.008 px
c = 7.857 px

xc = 5.751 px
yc = 2.493 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 13526.2498
Standard deviation: 6.63773
R^2: 0.81921
Parameters:
a = 112.88280
b = 184.42340
c = 7.89799
d = 1.62443

Bead 523 (Rejected)

Date : Mon Oct 17 13:51:05 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
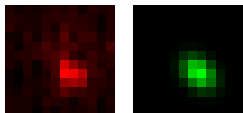Frame size : 12 pixels

Coordinates : 123 um (x), -51.3 um (y), 10.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

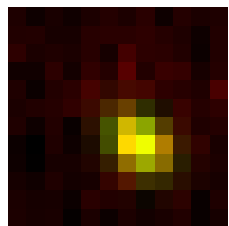| FWHM	Non corrected	Corrected	Theoretical
min	489 nm	510 nm	270 nm
max	672 nm	700 nm	270 nm
z	2.7 um	2.71 um	1.3 um
Asymmetry	0.728		
Theta	-45.8°		

XY profile & fitting parameters :

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

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

$R^2 = 0.839$

Parameters:
A = 149.218   (brightness)
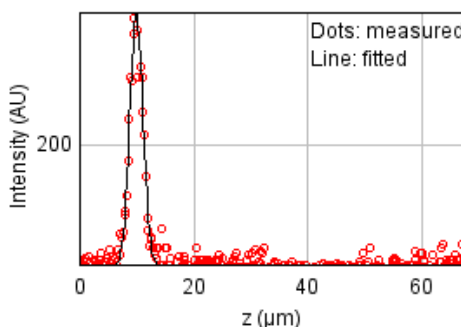B = 117.634   (background)
a = 0.432 px
b = -0.132 px
c = 0.425 px

xc = 6.655 px
yc = 6.907 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14921.5310
Standard deviation: 6.97168
R^2: 0.95382
Parameters:
a = 110.87572
b = 299.34454
c = 10.03470
d = 1.14572

Bead 524

Date : Mon Oct 17 13:51:05 PDT 2022
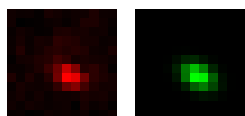Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -161 um (x), 87.9 um (y), 10.4 um (z)
Corresponding bead : Not found

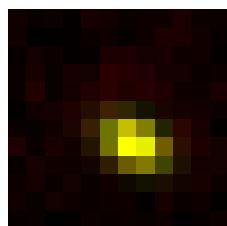| FWHM	Non corrected	Corrected	Theoretical
min	423 nm	440 nm	270 nm
max	625 nm	651 nm	270 nm
z	2.89 um	2.9 um	1.3 um
Asymmetry	0.676		
Theta	-28.8°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 235.628   (brightness)
 B = 115.702   (background)
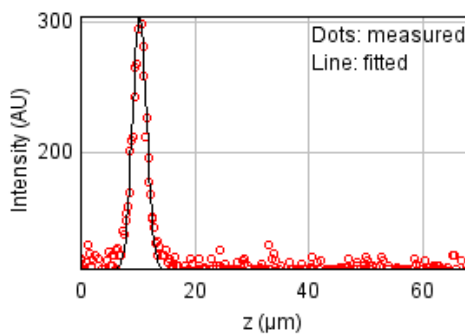 a = 0.438 px
 b = -0.172 px
 c = 0.657 px

xc = 6.354 px
yc = 6.816 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 16766.2237
Standard deviation: 7.39007
R^2: 0.95371
Parameters:
 a = 111.21044
 b = 304.45760
 c = 10.40647
 d = 1.22680

Bead 525

Date : Mon Oct 17 13:51:06 PDT 2022
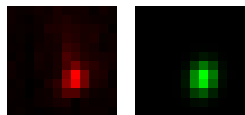Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 66.0 um (x), 71.5 um (y), 11.2 um (z)
Corresponding bead : Not found

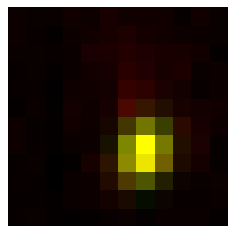| FWHM	Non corrected	Corrected	Theoretical
min	436 nm	454 nm	270 nm
max	561 nm	585 nm	270 nm
z	1.78 um	1.78 um	1.3 um
Asymmetry	0.777		
Theta	76.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.919$

Parameters:
 A = 477.898   (brightness)
 B = 126.804   (background)
 a = 0.691 px
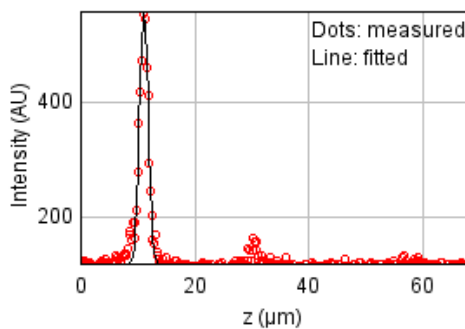 b = 0.063 px
 c = 0.441 px

xc = 6.926 px
yc = 7.389 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 43445.2977
Standard deviation: 11.89603
R^2: 0.96318
Parameters:
 a = 116.78558
 b = 557.93774
 c = 11.17185
 d = 0.75463

Bead 526 (Rejected)

Date : Mon Oct 17 13:51:06 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

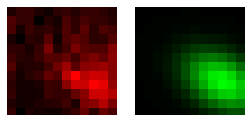Coordinates : 25.3 um (x), 60.9 um (y), 8.89 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

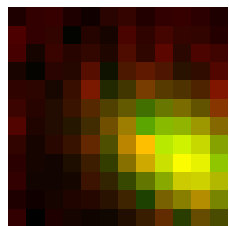| FWHM	Non corrected	Corrected	Theoretical
min	955 nm	994 nm	270 nm
max	1.51 um	1.57 um	270 nm
z	1.87 um	1.88 um	1.3 um
Asymmetry	0.633		
Theta	-29.1°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.791$

Parameters:
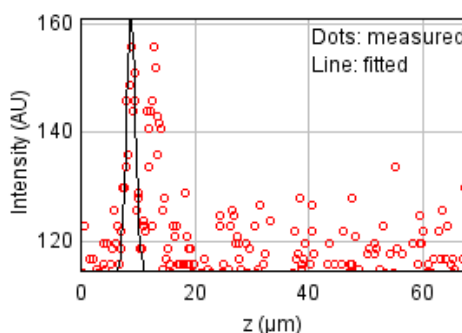 A = 70.519   (brightness)
 B = 116.392   (background)
 a = 0.080 px
 b = -0.038 px
 c = 0.126 px

xc = 9.074 px
yc = 7.667 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 22943.2867
Standard deviation: 8.64487
R^2: 0.36676
Parameters:
 a = 114.59379
 b = 161.15285
 c = 8.88743
 d = 0.79383

Bead 527

Date : Mon Oct 17 13:51:06 PDT 2022
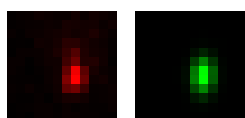Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 25.5 um (x), 61.2 um (y), 10.9 um (z)
Corresponding bead : Not found

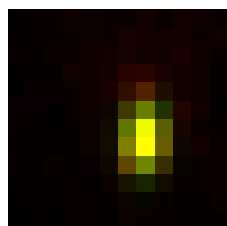| FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	634 nm	661 nm	270 nm
z	2.13 um	2.14 um	1.3 um
Asymmetry	0.621		
Theta	87.3°		

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
  $R^2 = 0.937$

Parameters:
 A = 527.276   (brightness)
 B = 125.244   (background)
 a = 0.864 px
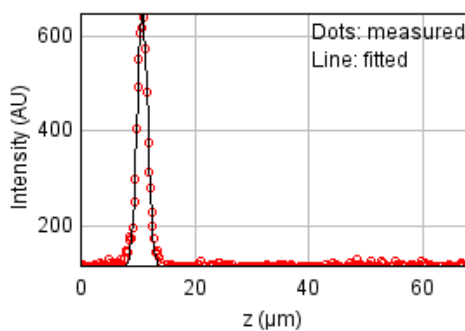 b = 0.025 px
 c = 0.335 px

xc = 6.922 px
yc = 6.532 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 25541.6598
Standard deviation: 9.12127
R^2: 0.98739
Parameters:
 a = 113.64193
 b = 650.67099
 c = 10.91370
 d = 0.90333

Bead 528

Date : Mon Oct 17 13:51:06 PDT 2022
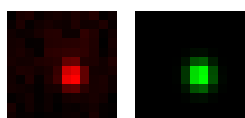Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -114 um (x), 56.5 um (y), 10.4 um (z)
Corresponding bead : Not found

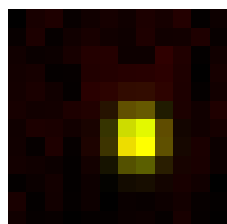| FWHM	Non corrected	Corrected	Theoretical
min	453 nm	472 nm	270 nm
max	517 nm	539 nm	270 nm
z	2.88 um	2.89 um	1.3 um
Asymmetry	0.876		
Theta	-86.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 238.092   (brightness)
 B = 119.708   (background)
 a = 0.653 px
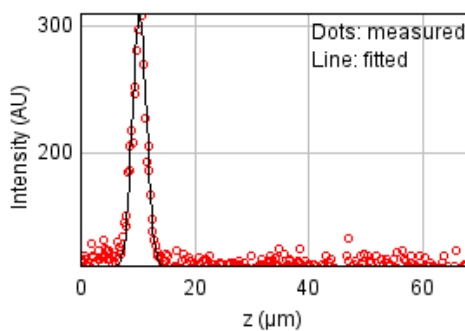 b = -0.009 px
 c = 0.502 px

xc = 6.603 px
yc = 6.513 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20179.6094
Standard deviation: 8.10750
R^2: 0.94641
Parameters:
 a = 112.54315
 b = 309.12811
 c = 10.39192
 d = 1.22272

Bead 529

Date : Mon Oct 17 13:51:06 PDT 2022
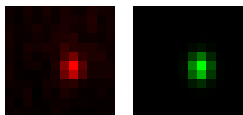Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 95.9 um (x), 55.9 um (y), 10.4 um (z)
Corresponding bead : Not found

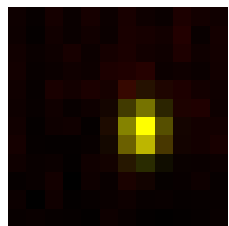| FWHM	Non corrected	Corrected	Theoretical
min	382 nm	398 nm	270 nm
max	488 nm	508 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.784		
Theta	88.5°		

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 = 0.938

Parameters:
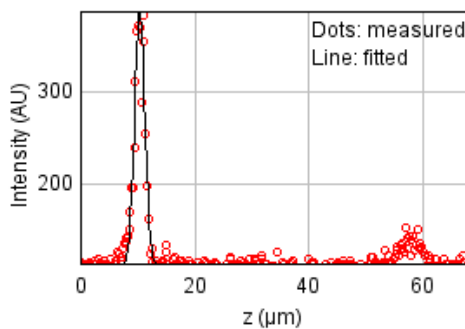A = 293.700   (brightness)
B = 117.966   (background)
a = 0.918 px
b = 0.009 px
c = 0.565 px

xc = 6.859 px
yc = 6.205 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 39804.3373
Standard deviation: 11.38665
R^2: 0.92660
Parameters:
a = 114.89446
b = 386.67773
c = 10.43303
d = 0.88532

Bead 530

Date : Mon Oct 17 13:51:06 PDT 2022
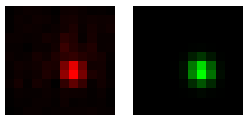Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -91.1 um (x), 27.7 um (y), 10.6 um (z)
Corresponding bead : Not found

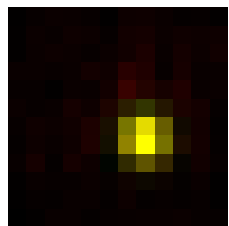| FWHM	Non corrected	Corrected	Theoretical
min	425 nm	443 nm	270 nm
max	463 nm	482 nm	270 nm
z	2.27 um	2.28 um	1.3 um
Asymmetry	0.918		
Theta	-78.8°		

XY profile & fitting parameters :

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

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

Parameters:
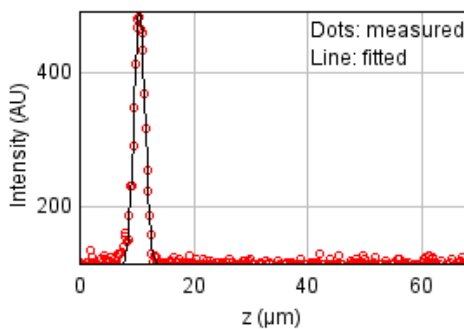 A = 404.155   (brightness)
  B = 119.932   (background)
  a = 0.738 px
  b = -0.022 px
  c = 0.630 px

xc = 6.939 px
yc = 6.618 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19115.1154
Standard deviation: 7.89077
R^2: 0.98207
Parameters:
 a = 113.99155
 b = 490.84756
 c = 10.58330
 d = 0.96362

Bead 531 (Rejected)

Date : Mon Oct 17 13:51:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

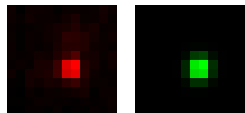Coordinates : -98.2 um (x), -8.56 um (y), 10.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

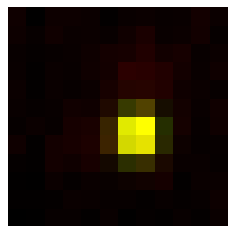| FWHM	Non corrected	Corrected	Theoretical
min	388 nm	404 nm	270 nm
max	428 nm	446 nm	270 nm
z	4.38 um	4.4 um	1.3 um
Asymmetry	0.906		
Theta	82.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 490.585   (brightness)
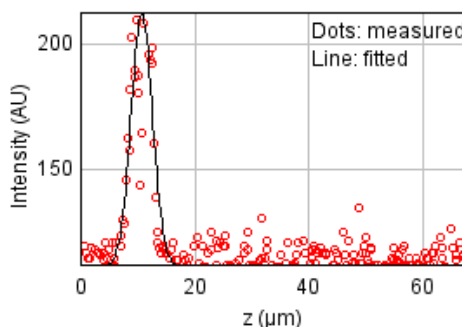 B = 121.959   (background)
 a = 0.891 px
 b = 0.021 px
 c = 0.736 px

xc = 6.538 px
yc = 6.431 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30093.5130
Standard deviation: 9.90073
R^2: 0.82051
Parameters:
 a = 111.71141
 b = 212.53200
 c = 10.79970
 d = 1.86109

Bead 532

Date : Mon Oct 17 13:51:07 PDT 2022
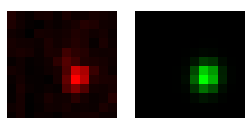Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 100 um (x), -31.7 um (y), 10.3 um (z)
Corresponding bead : Not found

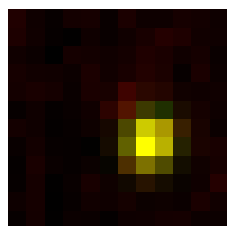| FWHM	Non corrected	Corrected	Theoretical
min	447 nm	465 nm	270 nm
max	513 nm	535 nm	270 nm
z	2.55 um	2.56 um	1.3 um
Asymmetry	0.87		
Theta	77.9°		

XY profile & fitting parameters :

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

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

Parameters:
A = 206.331 (brightness)
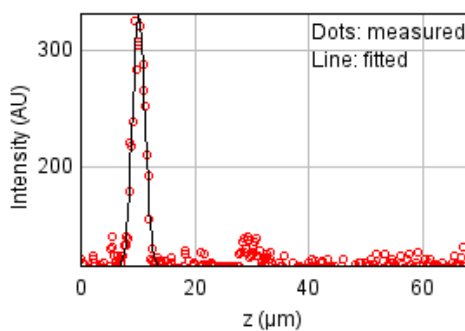B = 115.398 (background)
a = 0.665 px
b = 0.033 px
c = 0.516 px

xc = 7.244 px
yc = 6.704 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25311.1408
Standard deviation: 9.08002
R^2: 0.93959
Parameters:
a = 113.89250
b = 332.56400
c = 10.26665
d = 1.08333

Bead 533

Date : Mon Oct 17 13:51:07 PDT 2022
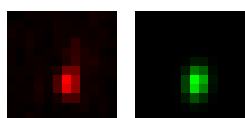Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -93.9 um (x), -44.6 um (y), 10.5 um (z)
Corresponding bead : Not found

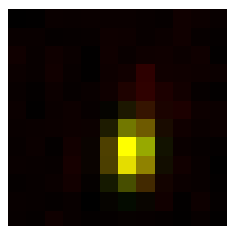| FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	553 nm	576 nm	270 nm
z	2.49 um	2.5 um	1.3 um
Asymmetry	0.697		
Theta	82.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
A = 445.918   (brightness)
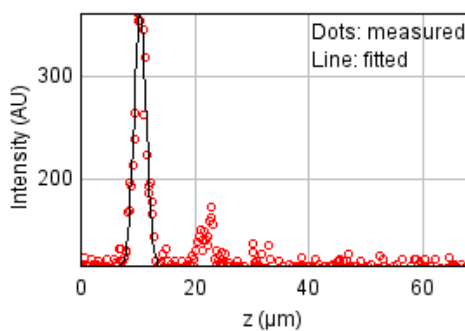B = 121.687   (background)
a = 0.893 px
b = 0.060 px
c = 0.446 px

xc = 6.248 px
yc = 7.307 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 46400.1887
Standard deviation: 12.29393
R^2: 0.91328
Parameters:
a = 114.85414
b = 361.18632
c = 10.51389
d = 1.05817

Bead 534

Date : Mon Oct 17 13:51:07 PDT 2022
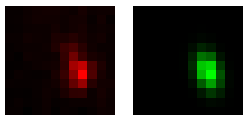Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 60.4 um (x), -52.4 um (y), 10.9 um (z)
Corresponding bead : Not found

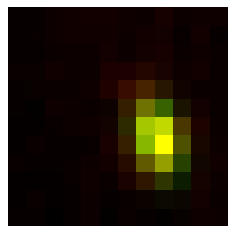| FWHM	Non corrected	Corrected	Theoretical
min	419 nm	436 nm	270 nm
max	688 nm	717 nm	270 nm
z	2.5 um	2.51 um	1.3 um
Asymmetry	0.608		
Theta	-74.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.929$

  Parameters:
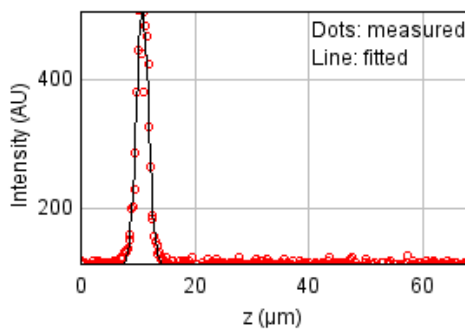 A = 486.787   (brightness)
  B = 123.699   (background)
  a = 0.732 px
  b = -0.122 px
  c = 0.317 px

  xc = 7.665 px
  yc = 6.626 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 46485.0380
Standard deviation: 12.30516
R^2: 0.96434
Parameters:
 a = 112.98988
 b = 507.46657
 c = 10.91922
 d = 1.06175

Bead 535 (Rejected)

Date : Mon Oct 17 13:51:07 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

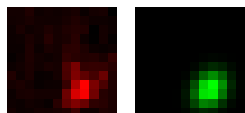Coordinates : 92.1 um (x), -53.9 um (y), 7.42 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

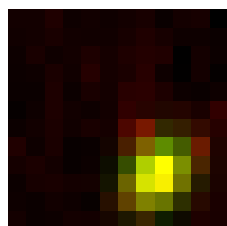| FWHM	Non corrected	Corrected	Theoretical
min	551 nm	574 nm	270 nm
max	697 nm	726 nm	270 nm
z	3.53 um	3.54 um	1.3 um
Asymmetry	0.791		
Theta	55.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.869$

Parameters:
A = 195.733   (brightness)
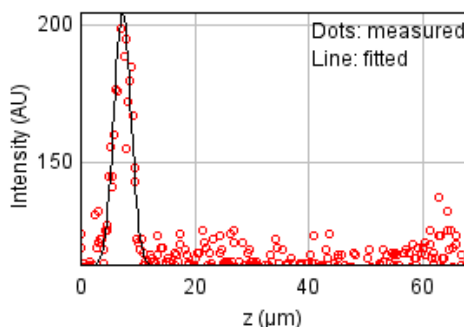B = 118.720   (background)
a = 0.387 px
b = 0.077 px
c = 0.330 px

xc = 7.665 px
yc = 8.481 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18591.5716
Standard deviation: 7.78196
R^2: 0.83605
Parameters:
a = 112.16644
b = 204.49198
c = 7.42147
d = 1.49794

Bead 536

Date : Mon Oct 17 13:51:08 PDT 2022
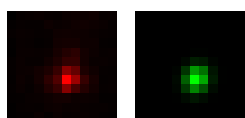Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -58.5 um (x), -56.9 um (y), 11.0 um (z)
Corresponding bead : Not found

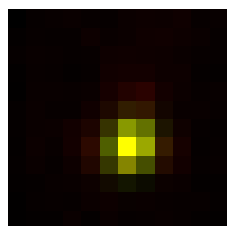| FWHM	Non corrected	Corrected	Theoretical
min	430 nm	448 nm	270 nm
max	489 nm	509 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.88		
Theta	68.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.944$

Parameters:
A = 703.277   (brightness)
B = 128.642   (background)
a = 0.702 px
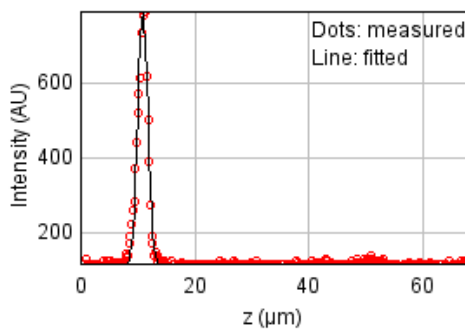b = 0.056 px
c = 0.584 px

xc = 6.208 px
yc = 6.917 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 64090.2313
Standard deviation: 14.44863
R^2: 0.97950
Parameters:
 a = 114.57504
 b = 790.83094
 c = 10.98172
 d = 0.87071

Bead 537

Date : Mon Oct 17 13:51:08 PDT 2022
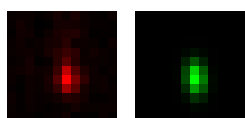Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -635 nm (x), -59.0 um (y), 10.4 um (z)
Corresponding bead : Not found

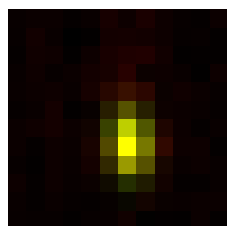| FWHM	Non corrected	Corrected	Theoretical
min	365 nm	380 nm	270 nm
max	617 nm	643 nm	270 nm
z	2.14 um	2.15 um	1.3 um
Asymmetry	0.591		
Theta	-85.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.938$

Parameters:
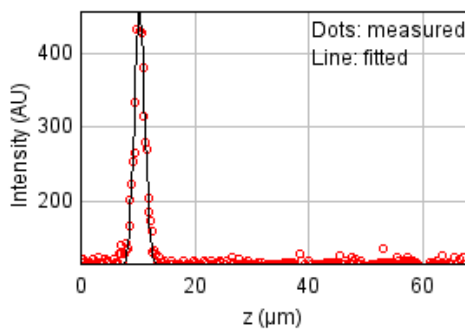A = 362.329 (brightness)
B = 120.305 (background)
a = 1.005 px
b = -0.056 px
c = 0.357 px

xc = 6.114 px
yc = 6.812 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21358.8654
Standard deviation: 8.34103
R^2: 0.97499
Parameters:
a = 113.43389
b = 459.08859
c = 10.41191
d = 0.90835

Bead 538 (Rejected)

Date : Mon Oct 17 13:51:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

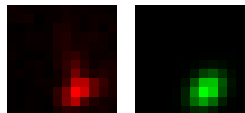Coordinates : 52.0 um (x), -60.6 um (y), 6.99 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

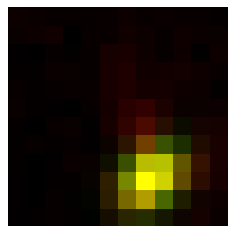| FWHM	Non corrected	Corrected	Theoretical
min	508 nm	529 nm	270 nm
max	675 nm	703 nm	270 nm
z	3.3 um	3.31 um	1.3 um
Asymmetry	0.753		
Theta	48.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 416.104   (brightness)
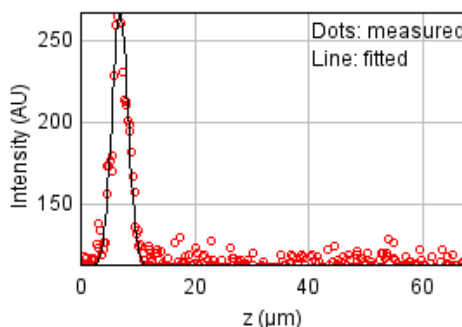B = 124.085   (background)
a = 0.420 px
b = 0.112 px
c = 0.395 px

xc = 7.316 px
yc = 8.796 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19703.1861
Standard deviation: 8.01123
R^2: 0.92718
Parameters:
a = 112.12136
b = 267.00337
c = 6.98846
d = 1.40060

Bead 539

Date : Mon Oct 17 13:51:08 PDT 2022
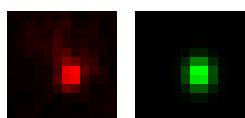Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 109 um (x), -80.5 um (y), 10.9 um (z)
Corresponding bead : Not found

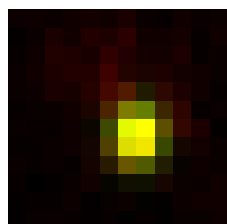| FWHM	Non corrected	Corrected	Theoretical
min	473 nm	493 nm	270 nm
max	573 nm	597 nm	270 nm
z	2.25 um	2.26 um	1.3 um
Asymmetry	0.826		
Theta	-88.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.910$

Parameters:
 A = 339.611   (brightness)
 B = 121.162   (background)
 a = 0.600 px
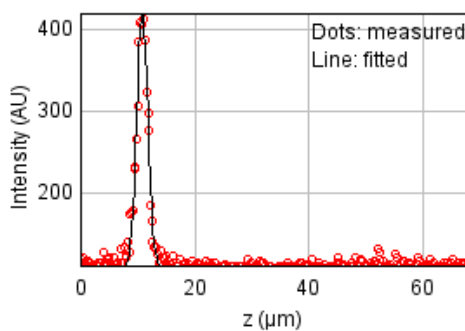 b = -0.005 px
 c = 0.409 px

xc = 6.522 px
yc = 6.363 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20631.4041
Standard deviation: 8.19776
R^2: 0.97138
Parameters:
 a = 111.74263
 b = 420.91608
 c = 10.90366
 d = 0.95731

Bead 540 (Rejected)

Date : Mon Oct 17 13:51:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

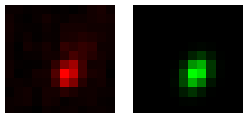Coordinates : -139 um (x), -90.3 um (y), 10.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

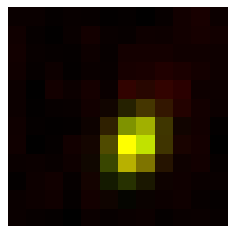| FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	593 nm	618 nm	270 nm
z	3.92 um	3.94 um	1.3 um
Asymmetry	0.713		
Theta	62.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.939$

Parameters:
 A = 370.452   (brightness)
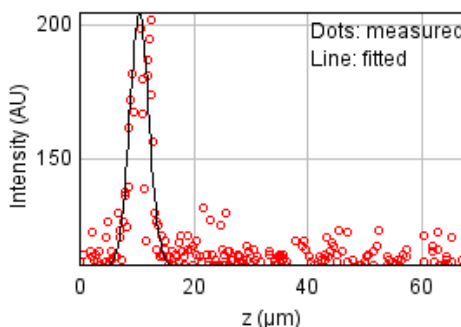 B = 119.507   (background)
 a = 0.672 px
 b = 0.150 px
 c = 0.459 px

xc = 6.417 px
yc = 6.966 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29334.9340
Standard deviation: 9.77515
R^2: 0.78575
Parameters:
 a = 110.56130
 b = 204.24825
 c = 10.53918
 d = 1.66671

Bead 541 (Rejected)

Date : Mon Oct 17 13:51:08 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
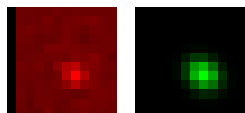Frame size : 12 pixels

Coordinates : -164 um (x), 91.0 um (y), 10.1 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

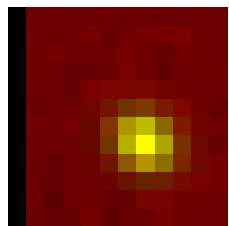| FWHM	Non corrected	Corrected	Theoretical
min	523 nm	544 nm	270 nm
max	626 nm	652 nm	270 nm
z	2.56 um	2.57 um	1.3 um
Asymmetry	0.835		
Theta	-39.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.313$

Parameters:
 A = 144.173   (brightness)
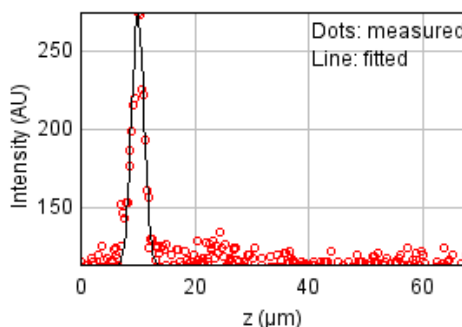 B = 105.535   (background)
 a = 0.403 px
 b = -0.073 px
 c = 0.431 px

xc = 6.938 px
yc = 6.848 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19643.8811
Standard deviation: 7.99916
R^2: 0.91620
Parameters:
 a = 112.77101
 b = 273.99251
 c = 10.10472
 d = 1.08743

Bead 542

Date : Mon Oct 17 13:51:09 PDT 2022
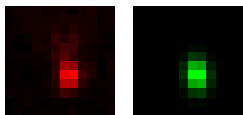Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

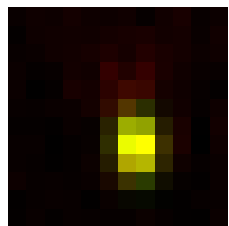Coordinates : -328 nm (x), 86.6 um (y), 11.3 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	397 nm	414 nm	270 nm
max	585 nm	609 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.68		
Theta	-85.1°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 501.334 (brightness)
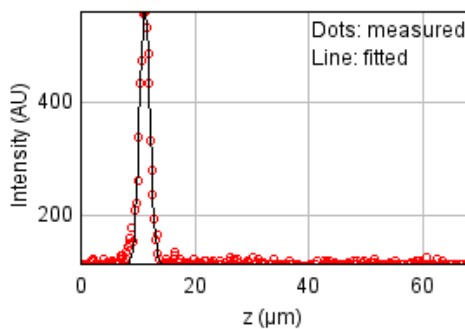 B = 125.829 (background)
 a = 0.846 px
 b = -0.039 px
 c = 0.396 px

xc = 6.508 px
yc = 7.026 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 24597.3224
Standard deviation: 8.95107
R^2: 0.98248
Parameters:
 a = 114.41565
 b = 561.71322
 c = 11.32292
 d = 0.89808

Bead 543

Date : Mon Oct 17 13:51:09 PDT 2022
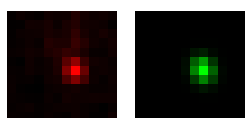Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -52.2 um (x), 85.9 um (y), 10.9 um (z)
Corresponding bead : Not found

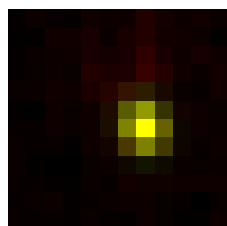| FWHM	Non corrected	Corrected	Theoretical
min	399 nm	416 nm	270 nm
max	485 nm	505 nm	270 nm
z	1.92 um	1.93 um	1.3 um
Asymmetry	0.822		
Theta	-73.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.916$

Parameters:
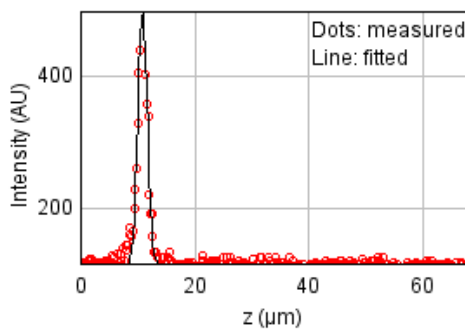A = 377.779   (brightness)
B = 122.957   (background)
a = 0.819 px
b = -0.076 px
c = 0.593 px

xc = 6.899 px
yc = 5.909 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 26581.6143
Standard deviation: 9.30511
R^2: 0.97199
Parameters:
a = 115.34192
b = 498.50864
c = 10.94525
d = 0.81469

Bead 544 (Rejected)

Date : Mon Oct 17 13:51:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

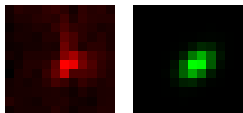Coordinates : 30.2 um (x), 78.0 um (y), 11.7 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

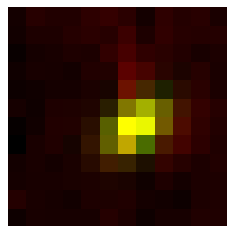| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	438 nm	270 nm
max	633 nm	659 nm	270 nm
z	3.71 um	3.73 um	1.3 um
Asymmetry	0.664		
Theta	39.1°		

XY profile & fitting parameters :

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

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

$R^2 = 0.837$

Parameters:
A = 224.503   (brightness)
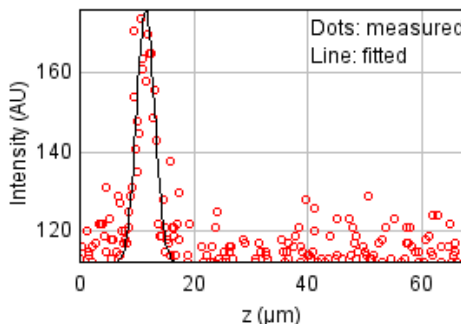B = 120.444   (background)
a = 0.504 px
b = 0.208 px
c = 0.590 px

xc = 6.483 px
yc = 5.972 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16158.7664
Standard deviation: 7.25496
R^2: 0.74757
Parameters:
a = 111.95000
b = 176.01286
c = 11.65487
d = 1.57744

Bead 545

Date : Mon Oct 17 13:51:09 PDT 2022
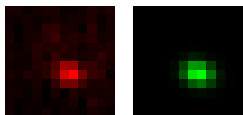Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -162 um (x), 66.6 um (y), 9.98 um (z)
Corresponding bead : Not found

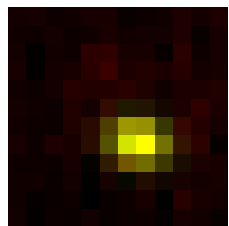| FWHM	Non corrected	Corrected	Theoretical
min	431 nm	449 nm	270 nm
max	553 nm	576 nm	270 nm
z	2.82 um	2.83 um	1.3 um
Asymmetry	0.779		
Theta	-15.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.901$

Parameters:
 A = 163.718   (brightness)
 B = 115.092   (background)
 a = 0.460 px
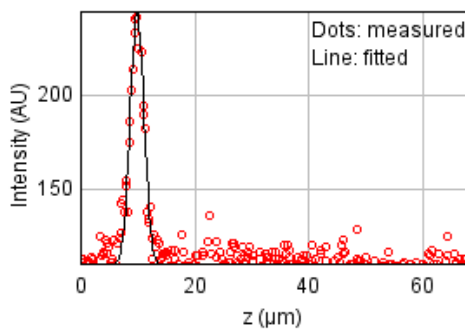 b = -0.074 px
 c = 0.702 px

xc = 6.591 px
yc = 6.858 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16329.7333
Standard deviation: 7.29324
R^2: 0.90810
Parameters:
 a = 110.80446
 b = 244.33575
 c = 9.98388
 d = 1.19837

Bead 546 (Rejected)

Date : Mon Oct 17 13:51:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

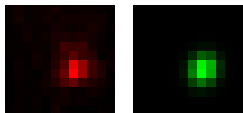Coordinates : -48.1 um (x), 65.3 um (y), 11.8 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

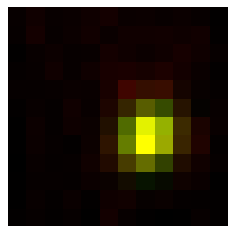| FWHM	Non corrected	Corrected	Theoretical
min	480 nm	500 nm	270 nm
max	557 nm	580 nm	270 nm
z	4.14 um	4.16 um	1.3 um
Asymmetry	0.862		
Theta	68.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.929$

Parameters:
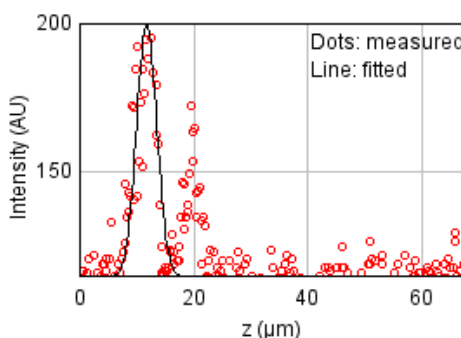 A = 436.327   (brightness)
 B = 123.005   (background)
 a = 0.563 px
 b = 0.051 px
 c = 0.452 px

xc = 7.173 px
yc = 6.541 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 44337.3319
Standard deviation: 12.01754
R^2: 0.67984
Parameters:
 a = 114.67576
 b = 200.23307
 c = 11.84260
 d = 1.75814

Bead 547

Date : Mon Oct 17 13:51:09 PDT 2022
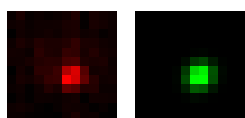Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

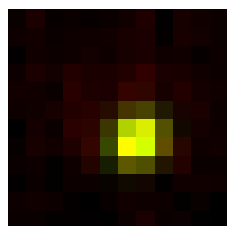Coordinates : 148 um (x), 33.4 um (y), 10.9 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	448 nm	467 nm	270 nm
max	494 nm	514 nm	270 nm
z	3.06 um	3.08 um	1.3 um
Asymmetry	0.908		
Theta	44.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.909$

Parameters:
A = 251.211 (brightness)
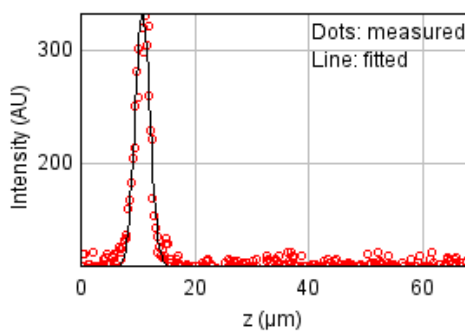B = 118.512 (background)
a = 0.608 px
b = 0.059 px
c = 0.610 px

xc = 6.549 px
yc = 6.594 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 20188.4674
Standard deviation: 8.10928
R^2: 0.95984
Parameters:
a = 110.42934
b = 332.64496
c = 10.93136
d = 1.30131

Bead 548 (Rejected)

Date : Mon Oct 17 13:51:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

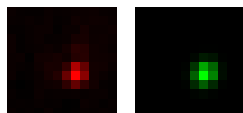Coordinates : -68.2 um (x), 21.3 um (y), 11.6 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

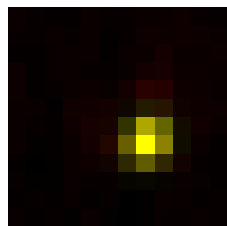| FWHM	Non corrected	Corrected	Theoretical
min	390 nm	406 nm	270 nm
max	445 nm	464 nm	270 nm
z	4.27 um	4.28 um	1.3 um
Asymmetry	0.875		
Theta	60.7°		

XY profile & fitting parameters :

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

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

Parameters:
A = 673.746   (brightness)
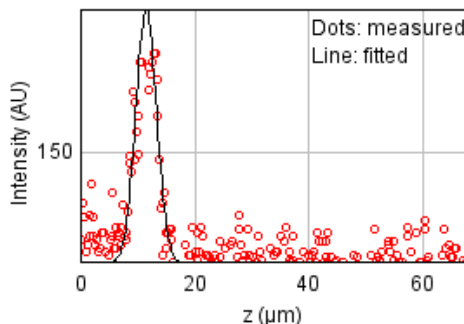B = 124.848   (background)
a = 0.833 px
b = 0.088 px
c = 0.726 px

xc = 7.117 px
yc = 6.778 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18412.7195
Standard deviation: 7.74444
R^2: 0.83067
Parameters:
a = 114.15362
b = 196.83592
c = 11.57086
d = 1.81165

Bead 549

Date : Mon Oct 17 13:51:09 PDT 2022
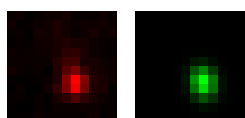Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 15.8 um (x), 15.7 um (y), 11.1 um (z)
Corresponding bead : Not found

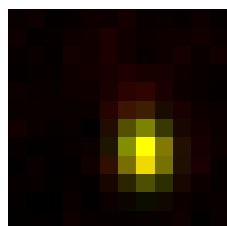| FWHM	Non corrected	Corrected	Theoretical
min	448 nm	466 nm	270 nm
max	574 nm	598 nm	270 nm
z	2.11 um	2.11 um	1.3 um
Asymmetry	0.78		
Theta	-79.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 402.259   (brightness)
 B = 124.999   (background)
 a = 0.661 px
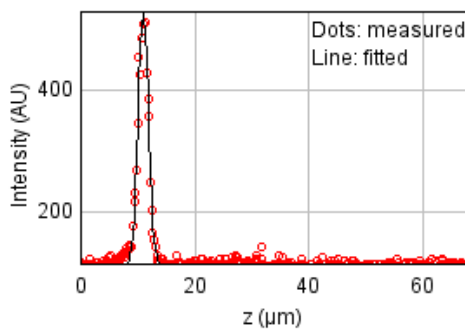 b = -0.047 px
 c = 0.416 px

xc = 6.962 px
yc = 7.301 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25438.1503
Standard deviation: 9.10277
R^2: 0.97917
Parameters:
 a = 113.96148
 b = 531.27247
 c = 11.07112
 d = 0.89424

Bead 550

Date : Mon Oct 17 13:51:09 PDT 2022
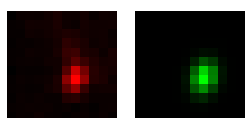Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 50.4 um (x), 14.5 um (y), 11.2 um (z)
Corresponding bead : Not found

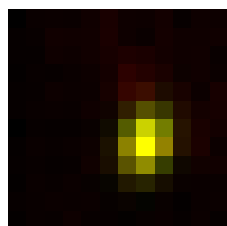| FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	596 nm	621 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.738		
Theta	75.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 460.694   (brightness)
 B = 123.181   (background)
 a = 0.675 px
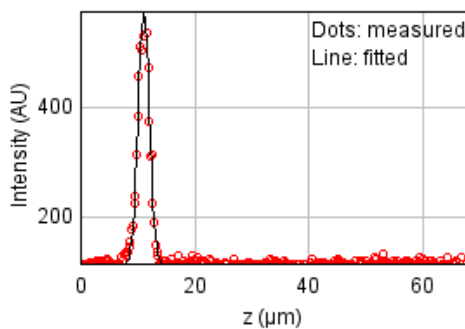 b = 0.076 px
 c = 0.397 px

xc = 7.028 px
yc = 6.738 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24574.2743
Standard deviation: 8.94687
R^2: 0.98480
Parameters:
 a = 113.56476
 b = 574.32892
 c = 11.15207
 d = 0.98137

Bead 551 (Rejected)

Date : Mon Oct 17 13:51:09 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

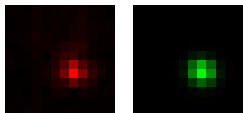Coordinates : -40.9 um (x), 13.4 um (y), 11.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

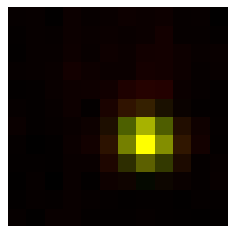| FWHM	Non corrected	Corrected	Theoretical
min	440 nm	458 nm	270 nm
max	466 nm	486 nm	270 nm
z	4.16 um	4.18 um	1.3 um
Asymmetry	0.944		
Theta	-32.3°		

XY profile & fitting parameters :

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

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

Parameters:
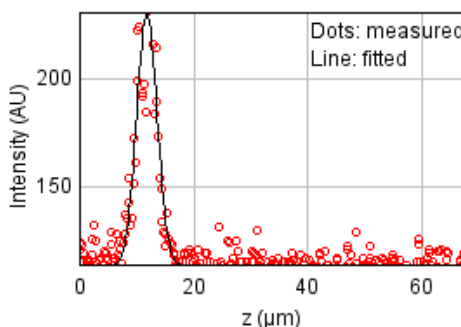 A = 588.794   (brightness)
 B = 124.463   (background)
 a = 0.639 px
 b = -0.034 px
 c = 0.671 px

xc = 7.029 px
yc = 6.771 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 23058.6207
Standard deviation: 8.66657
R^2: 0.88634
Parameters:
 a = 113.00867
 b = 230.93106
 c = 11.86838
 d = 1.76865

Bead 552 (Rejected)

Date : Mon Oct 17 13:51:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

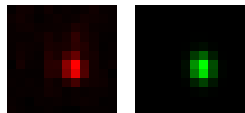Coordinates : -52.6 um (x), 12.6 um (y), 11.5 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

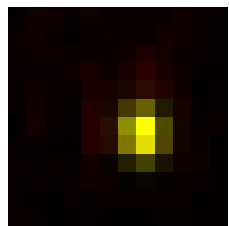| FWHM	Non corrected	Corrected	Theoretical
min	386 nm	402 nm	270 nm
max	491 nm	512 nm	270 nm
z	4.47 um	4.49 um	1.3 um
Asymmetry	0.785		
Theta	-85.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 531.730   (brightness)
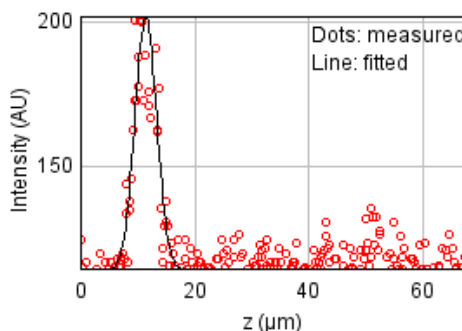 B = 125.964   (background)
 a = 0.900 px
 b = -0.027 px
 c = 0.558 px
xc = 6.830 px
yc = 6.363 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19609.9365
Standard deviation: 7.99225
R^2: 0.84272
Parameters:
 a = 114.37588
 b = 201.70468
 c = 11.50222
 d = 1.89871

Bead 553

Date : Mon Oct 17 13:51:10 PDT 2022
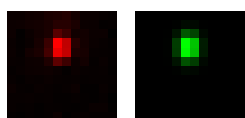Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -18.8 um (x), 10.1 um (y), 17.3 um (z)
Corresponding bead : Not found

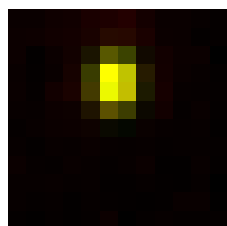| FWHM	Non corrected	Corrected	Theoretical
min	395 nm	411 nm	270 nm
max	495 nm	515 nm	270 nm
z	2.31 um	2.32 um	1.3 um
Asymmetry	0.798		
Theta	89.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 688.166   (brightness)
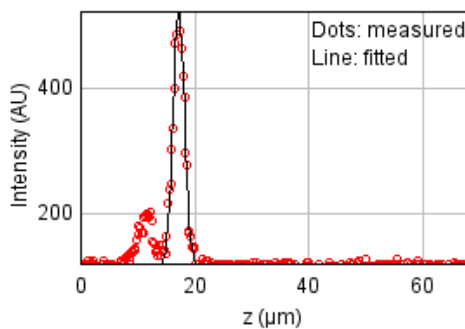 B = 121.951   (background)
 a = 0.861 px
 b = 0.002 px
 c = 0.548 px

 xc = 5.344 px
 yc = 3.476 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 92225.5033
Standard deviation: 17.33231
R^2: 0.93115
Parameters:
 a = 118.16493
 b = 525.86064
 c = 17.27625
 d = 0.98192

Bead 554

Date : Mon Oct 17 13:51:10 PDT 2022
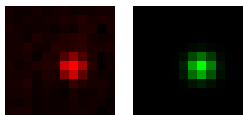Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -144 um (x), -5.43 um (y), 11.1 um (z)
Corresponding bead : Not found

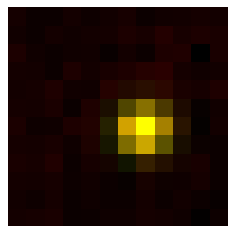| FWHM	Non corrected	Corrected	Theoretical
min	463 nm	482 nm	270 nm
max	485 nm	505 nm	270 nm
z	2.39 um	2.4 um	1.3 um
Asymmetry	0.954		
Theta	7.0°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 297.483   (brightness)
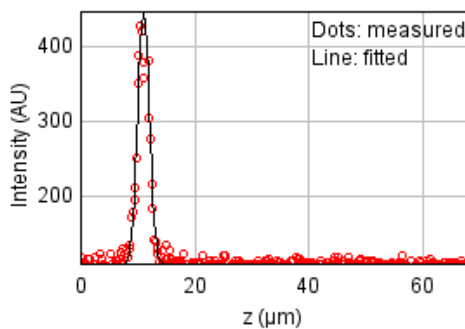 B = 115.996   (background)
 a = 0.571 px
 b = 0.007 px
 c = 0.625 px

xc = 6.893 px
yc = 6.160 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 39740.9429
Standard deviation: 11.37758
R^2: 0.95694
Parameters:
 a = 110.31466
 b = 447.75141
 c = 11.11452
 d = 1.01675

Bead 555

Date : Mon Oct 17 13:51:10 PDT 2022
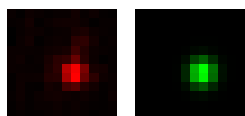Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -65.8 um (x), -77.0 um (y), 10.9 um (z)
Corresponding bead : Not found

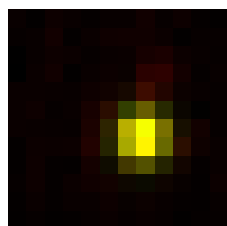| FWHM	Non corrected	Corrected	Theoretical
min	472 nm	492 nm	270 nm
max	504 nm	525 nm	270 nm
z	2.08 um	2.09 um	1.3 um
Asymmetry	0.937		
Theta	86.5°		

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

$R^2 = 0.955$

Parameters:
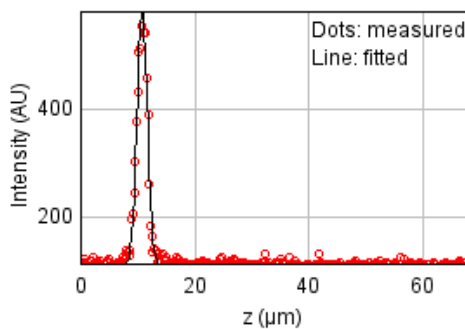A = 516.907 (brightness)
B = 121.144 (background)
a = 0.602 px
b = 0.004 px
c = 0.529 px

xc = 6.809 px
yc = 6.457 px

Z profile & fitting parameters:

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

Sum of residuals squared: 25935.8767

Standard deviation: 9.19139

R^2: 0.98315

Parameters:
a = 112.89167
b = 584.80834
c = 10.87786
d = 0.88459

Bead 556 (Rejected)

Date : Mon Oct 17 13:51:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

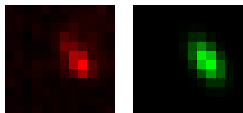Coordinates : 92.3 um (x), -86.5 um (y), 7.77 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

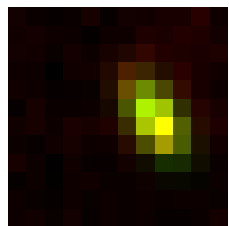| FWHM	Non corrected	Corrected	Theoretical
min	423 nm	441 nm	270 nm
max	753 nm	784 nm	270 nm
z	3.27 um	3.28 um	1.3 um
Asymmetry	0.562		
Theta	-58.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.903$

Parameters:
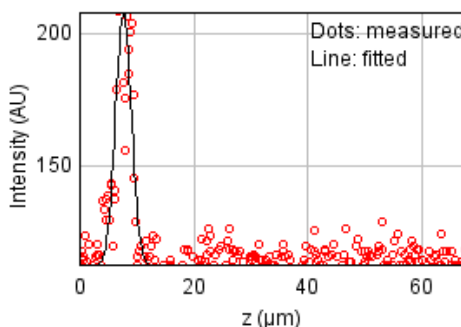 A = 240.170   (brightness)
 B = 116.549   (background)
 a = 0.611 px
 b = -0.228 px
 c = 0.375 px

xc = 7.545 px
yc = 5.569 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 25928.9838
Standard deviation: 9.19017
R^2: 0.78425
Parameters:
 a = 112.56422
 b = 207.86622
 c = 7.77401
 d = 1.38898

Bead 557 (Rejected)

Date : Mon Oct 17 13:51:10 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
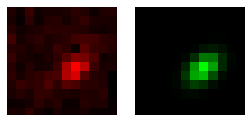Frame size : 12 pixels

Coordinates : -147 um (x), -93.9 um (y), 10.0 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

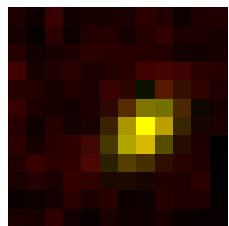| FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	662 nm	689 nm	270 nm
z	2.55 um	2.56 um	1.3 um
Asymmetry	0.648		
Theta	41.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.856$

Parameters:
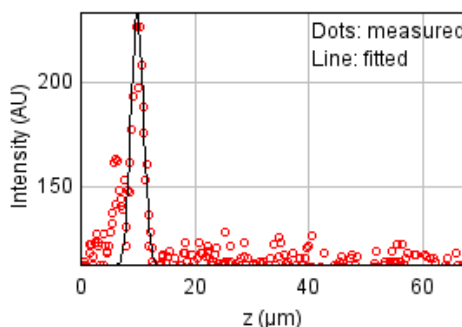A = 117.661   (brightness)
B = 115.037   (background)
a = 0.492 px
b = 0.210 px
c = 0.545 px

xc = 6.934 px
yc = 6.239 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 30772.4336
Standard deviation: 10.01179
R^2: 0.79744
Parameters:
a = 112.56229
b = 233.89256
c = 10.00120
d = 1.08276

Bead 558

Date : Mon Oct 17 13:51:10 PDT 2022
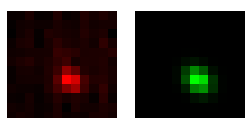Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -114 um (x), 92.1 um (y), 10.7 um (z)
Corresponding bead : Not found

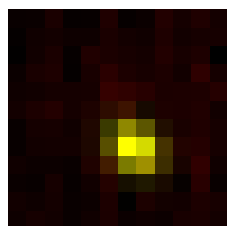| FWHM	Non corrected	Corrected	Theoretical
min	402 nm	419 nm	270 nm
max	510 nm	531 nm	270 nm
z	2.06 um	2.07 um	1.3 um
Asymmetry	0.788		
Theta	-43.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.907$

Parameters:
 A = 242.464   (brightness)
 B = 120.257   (background)
 a = 0.664 px
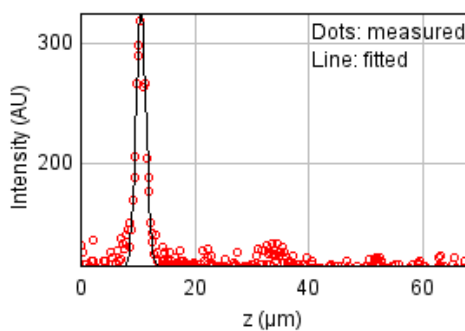 b = -0.157 px
 c = 0.680 px

xc = 6.396 px
yc = 7.053 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 22330.8833
Standard deviation: 8.52872
R^2: 0.93199
Parameters:
 a = 113.24525
 b = 326.60933
 c = 10.67443
 d = 0.87431

Bead 559

Date : Mon Oct 17 13:51:10 PDT 2022
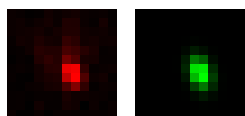Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -53.1 um (x), 79.2 um (y), 10.7 um (z)
Corresponding bead : Not found

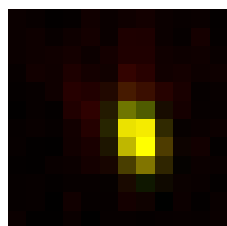| FWHM	Non corrected	Corrected	Theoretical
min	378 nm	394 nm	270 nm
max	589 nm	613 nm	270 nm
z	1.87 um	1.88 um	1.3 um
Asymmetry	0.642		
Theta	-73.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 369.366   (brightness)
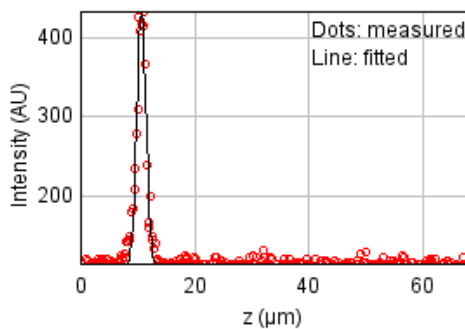 B = 121.841   (background)
 a = 0.895 px
 b = -0.149 px
 c = 0.431 px

xc = 6.597 px
yc = 6.458 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 29473.2240
Standard deviation: 9.79816
R^2: 0.95492
Parameters:
 a = 114.09744
 b = 432.86369
 c = 10.74385
 d = 0.79571

Bead 560

Date : Mon Oct 17 13:51:11 PDT 2022
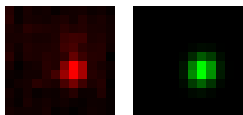Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 159 um (x), 74.4 um (y), 10.8 um (z)
Corresponding bead : Not found

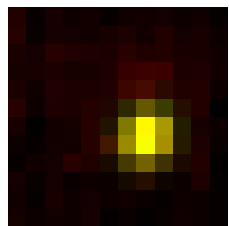| FWHM	Non corrected	Corrected	Theoretical
min	470 nm	490 nm	270 nm
max	530 nm	552 nm	270 nm
z	2.86 um	2.87 um	1.3 um
Asymmetry	0.886		
Theta	68.6°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 227.649   (brightness)
 B = 117.576   (background)
 a = 0.590 px
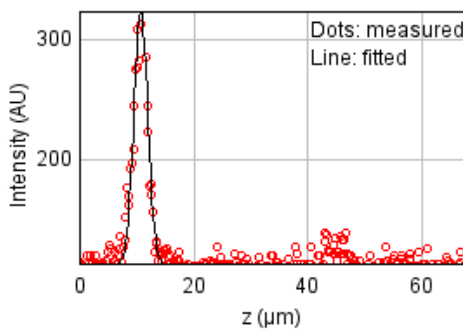 b = 0.044 px
 c = 0.494 px

  xc = 7.054 px
  yc = 6.524 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 28043.2396
Standard deviation: 9.55751
R^2: 0.93553
Parameters:
 a = 112.66543
 b = 323.53172
 c = 10.80813
 d = 1.21289

Bead 561 (Rejected)

Date : Mon Oct 17 13:51:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
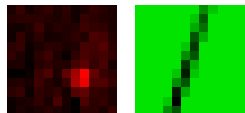
Coordinates : 153 um (x), 55.8 um (y), 8.83 um (z)
Corresponding bead : Not found
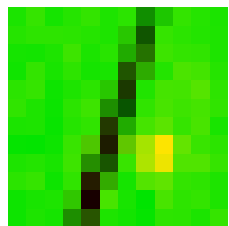Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	221 nm	230 nm	270 nm
max	4.4 um	4.59 um	270 nm
z	2.29 um	2.3 um	1.3 um
Asymmetry	0.05		
Theta	71.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.048$

Parameters:
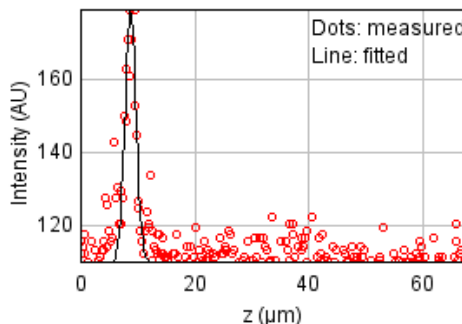 A = -7.677   (brightness)
 B = 116.931   (background)
 a = 2.472 px
 b = 0.840 px
 c = 0.278 px
xc = 4.287 px
yc = 8.892 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12441.5811
Standard deviation: 6.36603
R^2: 0.73701
Parameters:
 a = 110.30613
 b = 178.78087
 c = 8.82593
 d = 0.97248

Bead 562

Date : Mon Oct 17 13:51:11 PDT 2022
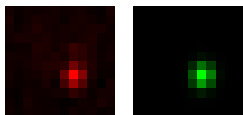Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 135 um (x), 39.5 um (y), 11.3 um (z)
Corresponding bead : Not found

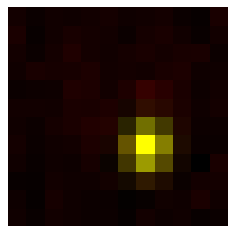| FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	450 nm	468 nm	270 nm
z	2.16 um	2.17 um	1.3 um
Asymmetry	0.854		
Theta	84.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.932$

Parameters:
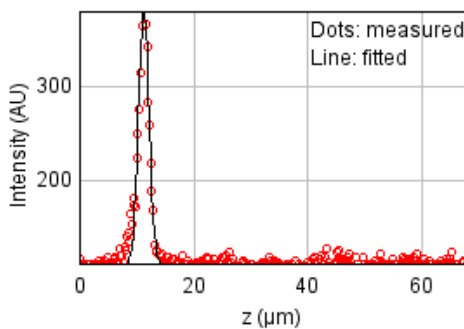 A = 291.283   (brightness)
 B = 120.072   (background)
 a = 0.906 px
 b = 0.025 px
 c = 0.666 px

xc = 7.108 px
yc = 7.121 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21549.0556
Standard deviation: 8.37809
R^2: 0.95946
Parameters:
 a = 112.23591
 b = 381.44712
 c = 11.32856
 d = 0.91752

Bead 563 (Rejected)

Date : Mon Oct 17 13:51:11 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

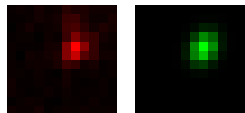Coordinates : 62.9 um (x), 32.0 um (y), 12.2 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

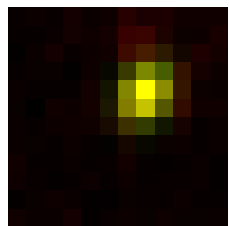| FWHM	Non corrected	Corrected	Theoretical
min	447 nm	466 nm	270 nm
max	579 nm	603 nm	270 nm
z	3.44 um	3.45 um	1.3 um
Asymmetry	0.772		
Theta	64.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.918$

Parameters:
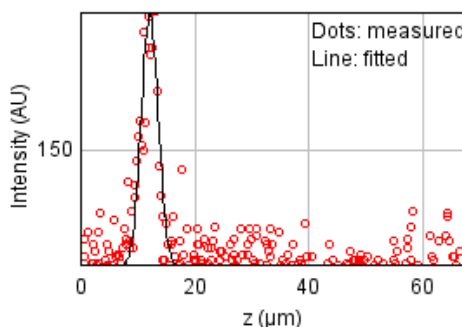 A = 300.093   (brightness)
 B = 118.823   (background)
 a = 0.622 px
 b = 0.104 px
 c = 0.450 px

xc = 6.986 px
yc = 4.197 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17493.6690
Standard deviation: 7.54868
R^2: 0.80321
Parameters:
 a = 113.17096
 b = 194.25073
 c = 12.19938
 d = 1.45956

Bead 564

Date : Mon Oct 17 13:51:11 PDT 2022
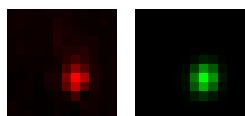Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -33.6 um (x), 29.8 um (y), 12.3 um (z)
Corresponding bead : Not found

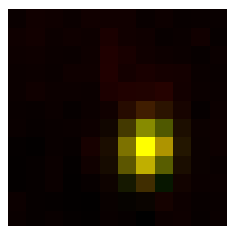| FWHM	Non corrected	Corrected	Theoretical
min	442 nm	460 nm	270 nm
max	527 nm	549 nm	270 nm
z	2.19 um	2.2 um	1.3 um
Asymmetry	0.838		
Theta	77.3°		

XY profile & fitting parameters :

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

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

Parameters:
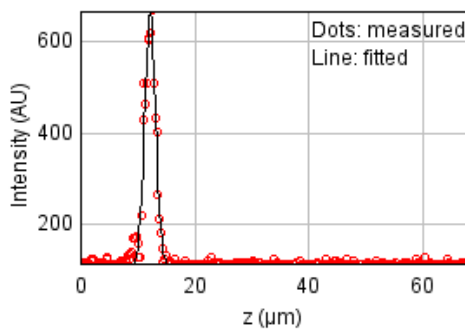 A = 507.943 (brightness)
 B = 124.850 (background)
 a = 0.677 px
 b = 0.044 px
 c = 0.492 px

xc = 7.088 px
yc = 7.108 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 75194.8684
Standard deviation: 15.65038
R^2: 0.96656
Parameters:
 a = 113.53678
 b = 665.31108
 c = 12.26673
 d = 0.93143

Bead 565

Date : Mon Oct 17 13:51:12 PDT 2022
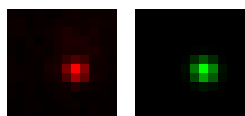Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -130 um (x), 24.9 um (y), 11.7 um (z)
Corresponding bead : Not found

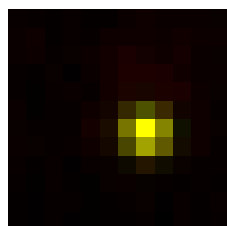| FWHM	Non corrected	Corrected	Theoretical
min	409 nm	426 nm	270 nm
max	436 nm	454 nm	270 nm
z	2.11 um	2.12 um	1.3 um
Asymmetry	0.937		
Theta	-20.7°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 492.357   (brightness)
 B = 121.610   (background)
 a = 0.718 px
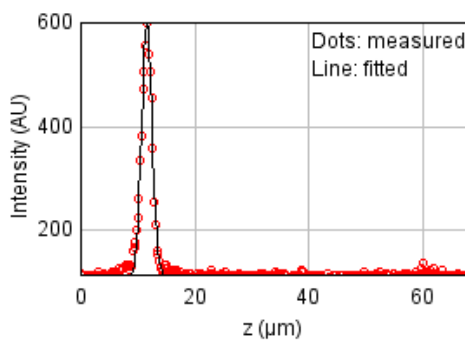 b = -0.032 px
 c = 0.791 px

xc = 7.050 px
yc = 6.216 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25013.7747
Standard deviation: 9.02652
R^2: 0.98502
Parameters:
 a = 112.78066
 b = 601.11398
 c = 11.69923
 d = 0.89802

Bead 566 (Rejected)

Date : Mon Oct 17 13:51:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

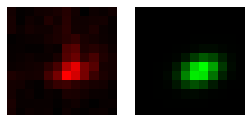Coordinates : -8.22 um (x), 22.2 um (y), 12.1 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

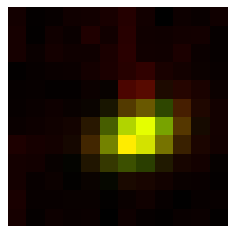| FWHM	Non corrected	Corrected	Theoretical
min	461 nm	480 nm	270 nm
max	696 nm	725 nm	270 nm
z	4.23 um	4.25 um	1.3 um
Asymmetry	0.661		
Theta	19.5°		

XY profile & fitting parameters :

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

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

$R^2 = 0.891$

Parameters:
 A = 265.343   (brightness)
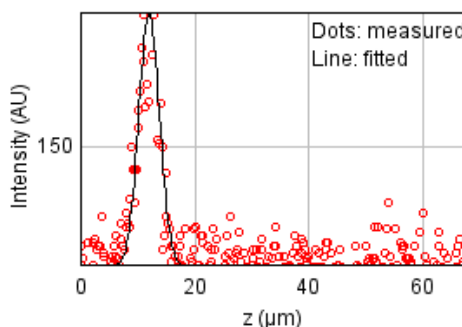 B = 121.466   (background)
 a = 0.316 px
 b = 0.112 px
 c = 0.593 px

xc = 6.621 px
yc = 6.472 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 16440.7973
Standard deviation: 7.31800
R^2: 0.82374
Parameters:
 a = 113.87127
 b = 190.42248
 c = 12.08217
 d = 1.79619

Bead 567 (Rejected)

Date : Mon Oct 17 13:51:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

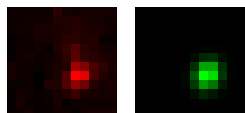Coordinates : 46.7 um (x), 6.29 um (y), 11.3 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

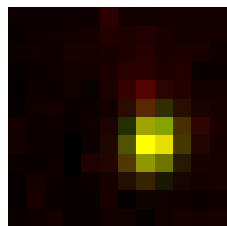| FWHM	Non corrected	Corrected	Theoretical
min	453 nm	472 nm	270 nm
max	543 nm	565 nm	270 nm
z	3.47 um	3.48 um	1.3 um
Asymmetry	0.835		
Theta	68.8°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.897$

Parameters:
 A = 277.860   (brightness)
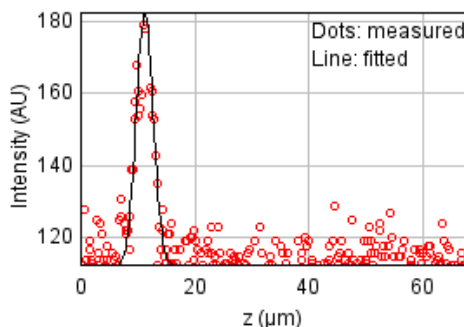 B = 120.635   (background)
 a = 0.627 px
 b = 0.067 px
 c = 0.481 px

xc = 7.398 px
yc = 6.908 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12499.8827
Standard deviation: 6.38093
R^2: 0.81205
Parameters:
 a = 112.22744
 b = 182.47580
 c = 11.32283
 d = 1.47171

Bead 568 (Rejected)

Date : Mon Oct 17 13:51:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
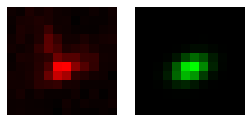Frame size : 12 pixels

Coordinates : 37.5 um (x), -42.0 um (y), 8.22 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

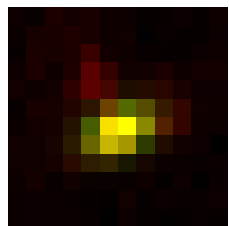| FWHM	Non corrected	Corrected	Theoretical
min	418 nm	435 nm	270 nm
max	651 nm	678 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.643		
Theta	22.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.863$

Parameters:
 A = 301.563   (brightness)
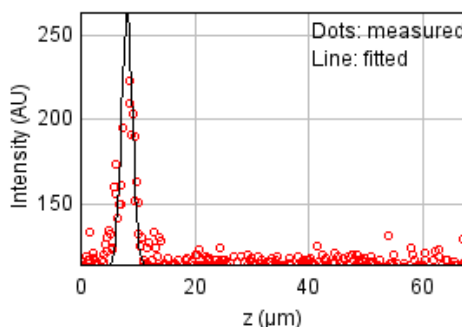 B = 125.151   (background)
 a = 0.380 px
 b = 0.157 px
 c = 0.704 px
 xc = 5.578 px
 yc = 6.222 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 28587.4067
Standard deviation: 9.64980
R^2: 0.85075
Parameters:
 a = 113.91007
 b = 263.70677
 c = 8.22432
 d = 0.94841

Bead 569

Date : Mon Oct 17 13:51:12 PDT 2022
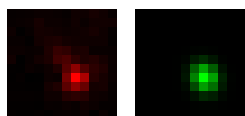Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 118 um (x), -85.7 um (y), 11.1 um (z)
Corresponding bead : Not found

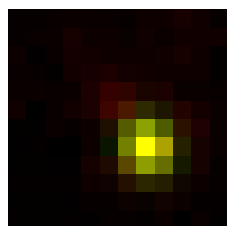| FWHM	Non corrected	Corrected	Theoretical
min	476 nm	496 nm	270 nm
max	547 nm	570 nm	270 nm
z	2.53 um	2.54 um	1.3 um
Asymmetry	0.87		
Theta	-66.4°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.907$

Parameters:
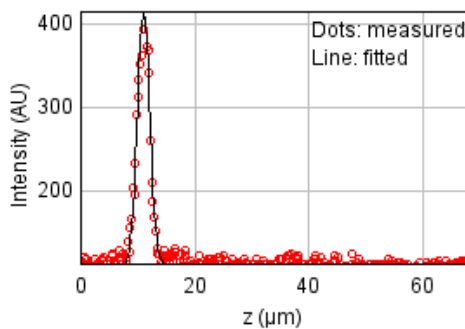A = 297.782   (brightness)
B = 122.172   (background)
a = 0.568 px
b = -0.053 px
c = 0.471 px

xc = 7.099 px
yc = 6.994 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21963.9337
Standard deviation: 8.45835
R^2: 0.97159
Parameters:
a = 112.29149
b = 415.59234
c = 11.12124
d = 1.07393

Bead 570

Date : Mon Oct 17 13:51:12 PDT 2022
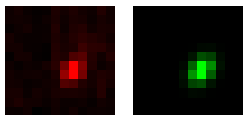Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -145 um (x), -89.3 um (y), 10.5 um (z)
Corresponding bead : Not found

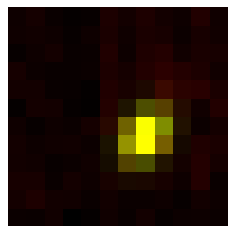| FWHM	Non corrected	Corrected	Theoretical
min	385 nm	401 nm	270 nm
max	537 nm	560 nm	270 nm
z	2.41 um	2.42 um	1.3 um
Asymmetry	0.717		
Theta	56.9°		

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
  $R^2 = 0.932$

Parameters:
 A = 268.166   (brightness)
 B = 116.993   (background)
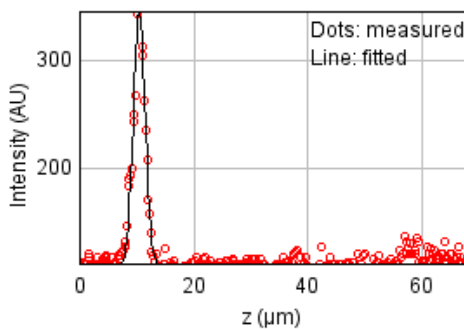 a = 0.773 px
 b = 0.201 px
 c = 0.596 px

xc = 6.984 px
yc = 6.502 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 22777.0359
Standard deviation: 8.61350
R^2: 0.94873
Parameters:
 a = 112.15294
 b = 344.69286
 c = 10.52882
 d = 1.02204

Bead 571

Date : Mon Oct 17 13:51:12 PDT 2022
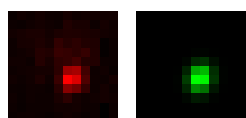Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 164 um (x), 83.5 um (y), 11.3 um (z)
Corresponding bead : Not found

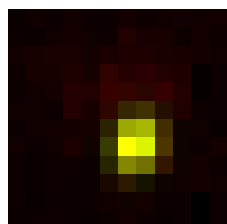| FWHM	Non corrected	Corrected	Theoretical
min	420 nm	438 nm	270 nm
max	514 nm	536 nm	270 nm
z	2.72 um	2.73 um	1.3 um
Asymmetry	0.817		
Theta	74.0°		

XY profile & fitting parameters :

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

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

$R^2 = 0.923$

Parameters:
A = 329.094   (brightness)
B = 120.721   (background)
a = 0.741 px
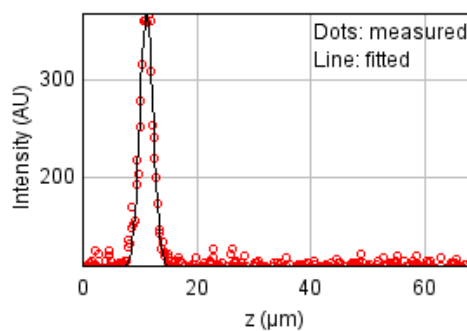b = 0.067 px
c = 0.527 px

xc = 6.487 px
yc = 6.838 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 18073.6588
Standard deviation: 7.67280
R^2: 0.96938
Parameters:
a = 110.99402
b = 366.88830
c = 11.28286
d = 1.15442

Bead 572 (Rejected)

Date : Mon Oct 17 13:51:12 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

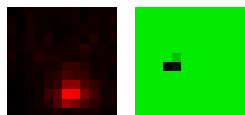Coordinates : -66.1 um (x), 43.1 um (y), 7.81 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

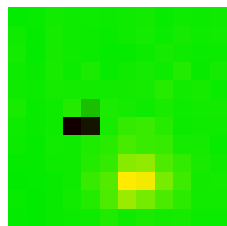| FWHM	Non corrected	Corrected	Theoretical
min	102 nm	106 nm	270 nm
max	183 nm	191 nm	270 nm
z	5.38 um	5.41 um	1.3 um
Asymmetry	0.554		
Theta	29.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.049$

Parameters:
 A = -105.006   (brightness)
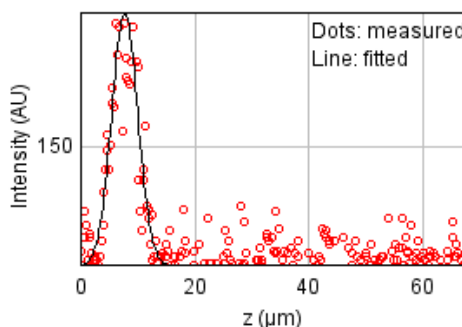 B = 136.681   (background)
 a = 6.179 px
 b = 3.860 px
 c = 10.835 px

xc = 3.683 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: 19249.4916
Standard deviation: 7.91845
R^2: 0.83930
Parameters:
 a = 113.14497
 b = 191.88513
 c = 7.81494
 d = 2.28601

Bead 573

Date : Mon Oct 17 13:51:12 PDT 2022
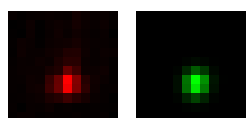Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -30.6 um (x), -47.3 um (y), 11.6 um (z)
Corresponding bead : Not found

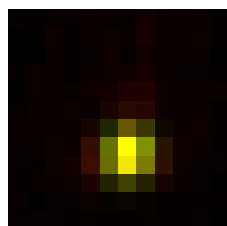| FWHM	Non corrected	Corrected	Theoretical
min	438 nm	457 nm	270 nm
max	487 nm	508 nm	270 nm
z	1.98 um	1.99 um	1.3 um
Asymmetry	0.9		
Theta	76.6°		

XY profile & fitting parameters :

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

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

$R^2 = 0.950$

Parameters:
A = 749.072   (brightness)
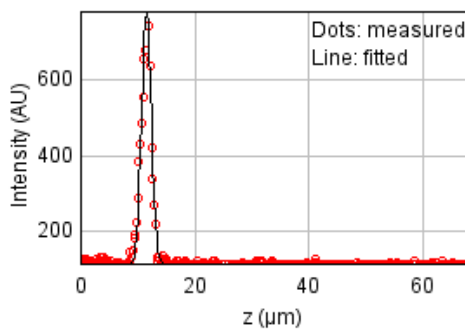B = 127.885   (background)
a = 0.691 px
b = 0.030 px
c = 0.572 px

xc = 6.068 px
yc = 7.405 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 65604.4716
Standard deviation: 14.61832
R^2: 0.97749
Parameters:
 a = 115.29954
 b = 778.19067
 c = 11.63203
 d = 0.84190

Bead 574

Date : Mon Oct 17 13:51:13 PDT 2022
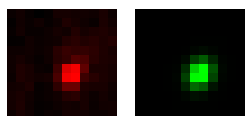Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -156 um (x), -51.5 um (y), 11.2 um (z)
Corresponding bead : Not found

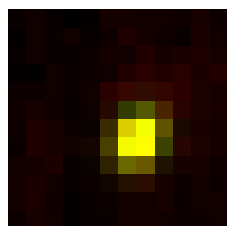| FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	529 nm	551 nm	270 nm
z	2.67 um	2.68 um	1.3 um
Asymmetry	0.812		
Theta	62.7°		

XY profile & fitting parameters :

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

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

$R^2 = 0.941$

Parameters:
A = 361.154   (brightness)
B = 118.465   (background)
a = 0.676 px
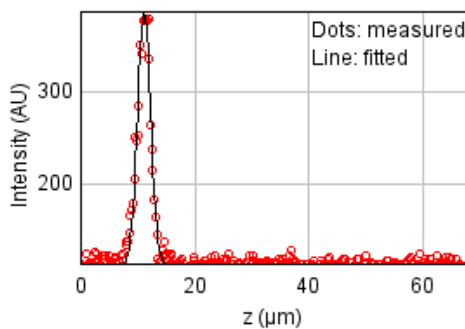b = 0.101 px
c = 0.532 px

xc = 6.575 px
yc = 6.574 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 20270.6485
Standard deviation: 8.12577
R^2: 0.97043
Parameters:
a = 110.81978
b = 388.95511
c = 11.21550
d = 1.13458

Bead 575

Date : Mon Oct 17 13:51:13 PDT 2022
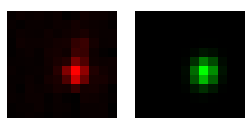Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : -87.8 um (x), -65.9 um (y), 11.5 um (z)
Corresponding bead : Not found

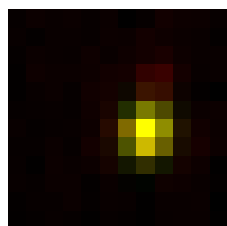| FWHM	Non corrected	Corrected	Theoretical
min	426 nm	443 nm	270 nm
max	507 nm	528 nm	270 nm
z	2.37 um	2.38 um	1.3 um
Asymmetry	0.84		
Theta	79.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 411.614   (brightness)
 B = 121.625   (background)
 a = 0.733 px
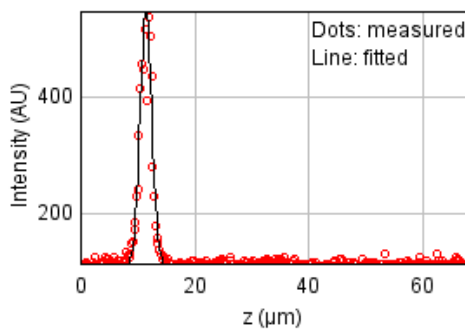 b = 0.040 px
 c = 0.529 px

xc = 7.087 px
yc = 6.191 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 62965.9091
Standard deviation: 14.32134
R^2: 0.95842
Parameters:
 a = 113.80086
 b = 548.75994
 c = 11.53574
 d = 1.00515

Bead 576

Date : Mon Oct 17 13:51:13 PDT 2022
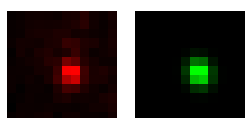Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 159 um (x), -78.7 um (y), 11.3 um (z)
Corresponding bead : Not found

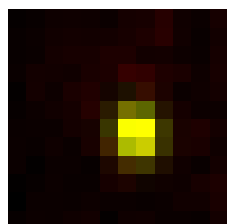| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	432 nm	270 nm
max	491 nm	511 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.845		
Theta	-77.3°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 303.504   (brightness)
 B = 116.703   (background)
 a = 0.768 px
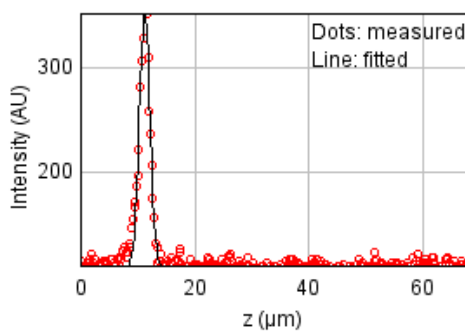 b = -0.048 px
 c = 0.568 px

xc = 6.517 px
yc = 6.268 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 15851.8782
Standard deviation: 7.18573
R^2: 0.96303
Parameters:
 a = 110.27387
 b = 353.15426
 c = 11.31246
 d = 0.91231

Bead 577

Date : Mon Oct 17 13:51:14 PDT 2022
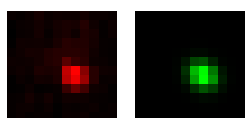Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 150 um (x), -84.5 um (y), 11.1 um (z)
Corresponding bead : Not found

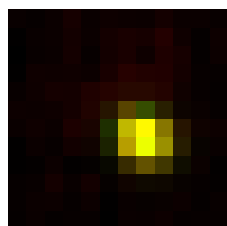| FWHM	Non corrected	Corrected	Theoretical
min	457 nm	476 nm	270 nm
max	539 nm	561 nm	270 nm
z	2.57 um	2.58 um	1.3 um
Asymmetry	0.848		
Theta	-36.6°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.944$

Parameters:
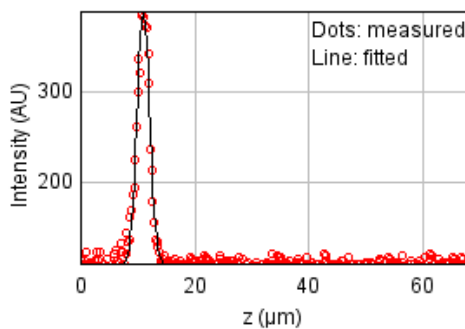 A = 343.099   (brightness)
 B = 115.280   (background)
 a = 0.526 px
 b = -0.086 px
 c = 0.578 px

xc = 6.872 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: 16911.8877
Standard deviation: 7.42210
R^2: 0.97453
Parameters:
 a = 109.63977
 b = 388.77840
 c = 11.07785
 d = 1.09323

Bead 578 (Rejected)

Date : Mon Oct 17 13:51:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
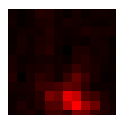Frame size : 12 pixels

Coordinates : -96.6 um (x), -95.7 um (y), 9.37 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

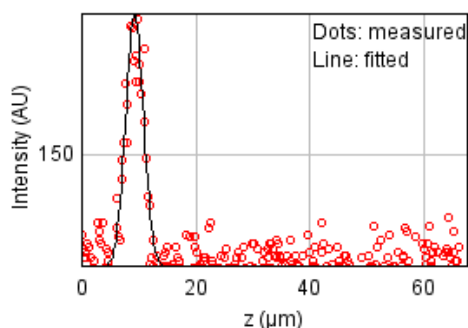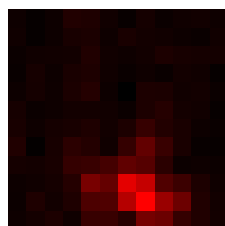| FWHM	Non corrected	Corrected	Theoretical
min	0	0	270 nm
max	0	0	270 nm
z	3.65 um	3.66 um	1.3 um
Asymmetry	0.0		
Theta	0.0°		

XY profile & fitting parameters :

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

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

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2))
Sum of residuals squared: 16434.4226
Standard deviation: 7.31658
R^2: 0.83711
Parameters:
 a = 111.93551
 b = 197.73765
 c = 9.37045
 d = 1.54956

Bead 579

Date : Mon Oct 17 13:51:14 PDT 2022
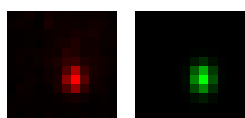Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 86.7 um (x), 89.0 um (y), 11.7 um (z)
Corresponding bead : Not found

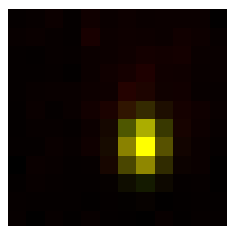| FWHM	Non corrected	Corrected	Theoretical
min	384 nm	400 nm	270 nm
max	511 nm	533 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.751		
Theta	89.1°		

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
  $R^2 = 0.959$

Parameters:
 A = 546.791   (brightness)
 B = 125.391   (background)
 a = 0.909 px
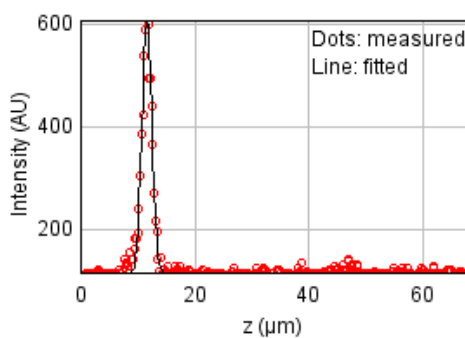 b = 0.006 px
 c = 0.513 px

xc = 6.871 px
yc = 6.880 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 35561.6090
Standard deviation: 10.76271
R^2: 0.97845
Parameters:
 a = 114.17471
 b = 608.30652
 c = 11.71238
 d = 0.85936

Bead 580 (Rejected)

Date : Mon Oct 17 13:51:14 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
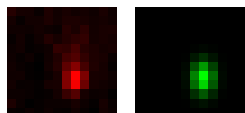Frame size : 12 pixels

Coordinates : 17.1 um (x), 82.3 um (y), 11.3 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

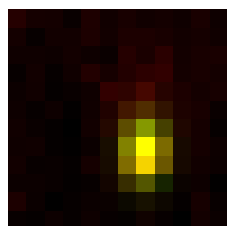| FWHM	Non corrected	Corrected	Theoretical
min	415 nm	433 nm	270 nm
max	617 nm	642 nm	270 nm
z	2.05 um	2.06 um	1.3 um
Asymmetry	0.673		
Theta	89.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.897$

Parameters:
 A = 275.574   (brightness)
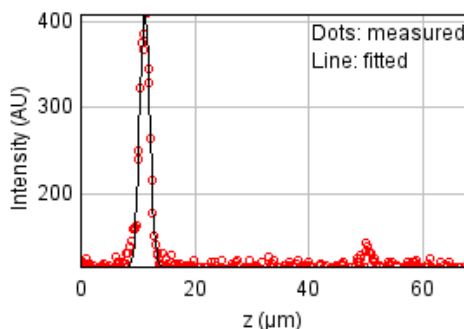 B = 122.753   (background)
 a = 0.778 px
 b = 0.003 px
 c = 0.353 px
xc = 6.933 px
yc = 7.232 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 21537.0159
Standard deviation: 8.37575
R^2: 0.96450
Parameters:
 a = 114.38968
 b = 410.09235
 c = 11.32761
 d = 0.87024

Bead 581

Date : Mon Oct 17 13:51:14 PDT 2022
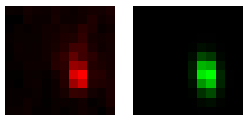Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 16.2 um (x), 72.5 um (y), 11.8 um (z)
Corresponding bead : Not found

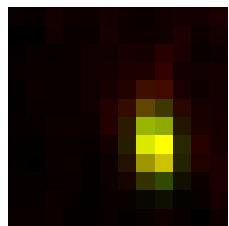| FWHM	Non corrected	Corrected	Theoretical
min	366 nm	381 nm	270 nm
max	633 nm	660 nm	270 nm
z	2.25 um	2.26 um	1.3 um
Asymmetry	0.577		
Theta	-82.8°		

XY profile & fitting parameters :

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

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

Parameters:
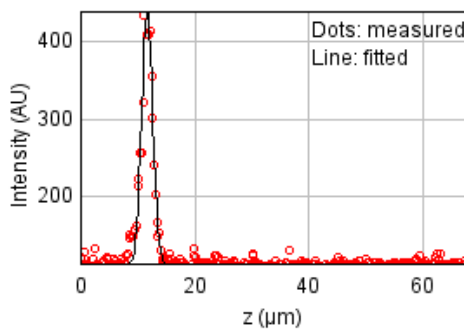 A = 390.344   (brightness)
 B = 123.712   (background)
 a = 0.993 px
 b = -0.083 px
 c = 0.345 px

xc = 7.546 px
yc = 6.993 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 27273.0582
Standard deviation: 9.42536
R^2: 0.96626
Parameters:
 a = 113.64661
 b = 440.36680
 c = 11.75851
 d = 0.95602

Bead 582

Date : Mon Oct 17 13:51:14 PDT 2022
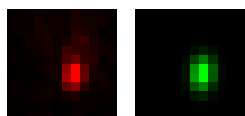Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 1.73 um (x), 68.0 um (y), 15.0 um (z)
Corresponding bead : Not found

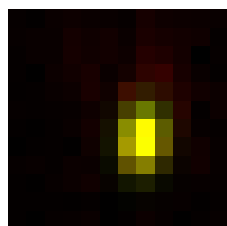| FWHM	Non corrected	Corrected	Theoretical
min	412 nm	429 nm	270 nm
max	613 nm	638 nm	270 nm
z	2.21 um	2.22 um	1.3 um
Asymmetry	0.673		
Theta	85.4°		

XY profile & fitting parameters :

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

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

$R^2 = 0.939$

Parameters:
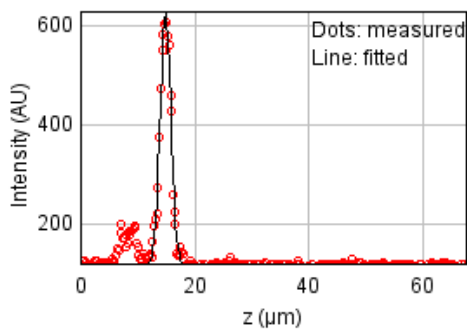A = 539.977   (brightness)
B = 123.622   (background)
a = 0.787 px
b = 0.035 px
c = 0.360 px

xc = 6.842 px
yc = 6.540 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 99521.6605
Standard deviation: 18.00485
R^2: 0.94968
Parameters:
a = 118.51983
b = 629.38299
c = 14.95429
d = 0.93957

Bead 583

Date : Mon Oct 17 13:51:14 PDT 2022
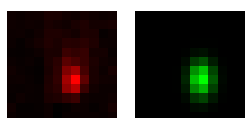Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 23.5 um (x), 65.0 um (y), 12.0 um (z)
Corresponding bead : Not found

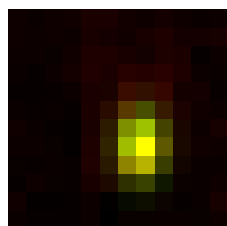| FWHM	Non corrected	Corrected	Theoretical
min	446 nm	464 nm	270 nm
max	650 nm	677 nm	270 nm
z	2.17 um	2.17 um	1.3 um
Asymmetry	0.686		
Theta	89.9°		

XY profile & fitting parameters :

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

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

Parameters:
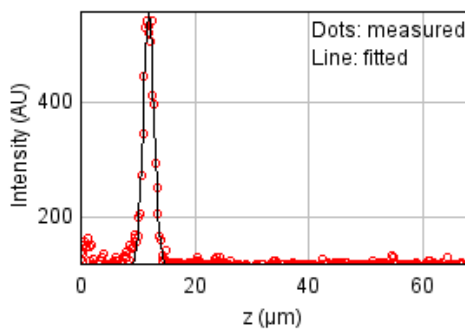 A = 394.708   (brightness)
 B = 126.702   (background)
 a = 0.675 px
 b = 0.001 px
 c = 0.318 px

xc = 6.723 px
yc = 6.936 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 40620.1976
Standard deviation: 11.50275
R^2: 0.97197
Parameters:
 a = 115.94571
 b = 562.79653
 c = 12.01011
 d = 0.91975

Bead 584

Date : Mon Oct 17 13:51:15 PDT 2022
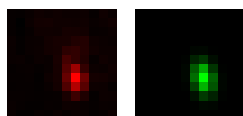Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 4.17 um (x), 60.4 um (y), 12.1 um (z)
Corresponding bead : Not found

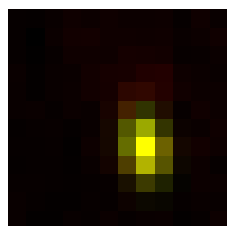| FWHM	Non corrected	Corrected	Theoretical
min	380 nm	395 nm	270 nm
max	605 nm	630 nm	270 nm
z	1.93 um	1.93 um	1.3 um
Asymmetry	0.627		
Theta	-79.2°		

XY profile & fitting parameters :

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

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

Parameters:
A = 548.363   (brightness)
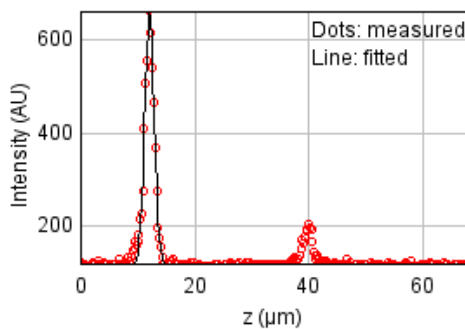B = 126.676   (background)
a = 0.912 px
b = -0.104 px
c = 0.386 px

xc = 6.972 px
yc = 7.030 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 79081.0573
Standard deviation: 16.04970
R^2: 0.95882
Parameters:
a = 119.20815
b = 659.36742
c = 12.14321
d = 0.81825

Bead 585

Date : Mon Oct 17 13:51:15 PDT 2022
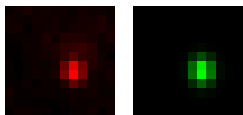Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 98.6 um (x), 59.4 um (y), 11.3 um (z)
Corresponding bead : Not found

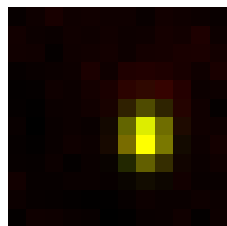| FWHM	Non corrected	Corrected	Theoretical
min	407 nm	424 nm	270 nm
max	503 nm	524 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.809		
Theta	-88.9°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 351.192   (brightness)
 B = 120.662   (background)
 a = 0.811 px
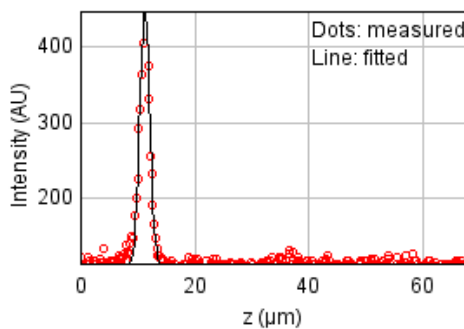 b = -0.005 px
 c = 0.531 px

  xc = 7.029 px
  yc = 6.571 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 21097.7061
Standard deviation: 8.28988
R^2: 0.97212
Parameters:
 a = 114.28987
 b = 448.23021
 c = 11.32959
 d = 0.85726

Bead 586 (Rejected)

Date : Mon Oct 17 13:51:15 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

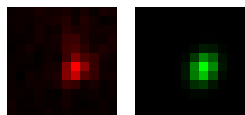Coordinates : 62.9 um (x), 32.0 um (y), 12.2 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

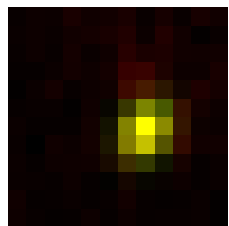| FWHM	Non corrected	Corrected	Theoretical
min	440 nm	459 nm	270 nm
max	569 nm	593 nm	270 nm
z	3.44 um	3.45 um	1.3 um
Asymmetry	0.773		
Theta	64.4°		

XY profile & fitting parameters :

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

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

Parameters:
 A = 301.133   (brightness)
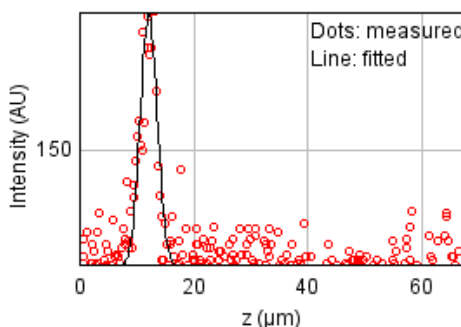 B = 120.666   (background)
 a = 0.640 px
 b = 0.108 px
 c = 0.466 px

xc = 6.985 px
yc = 6.201 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17493.6690
Standard deviation: 7.54868
R^2: 0.80321
Parameters:
 a = 113.17096
 b = 194.25073
 c = 12.19938
 d = 1.45956

Bead 587 (Rejected)

Date : Mon Oct 17 13:51:15 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

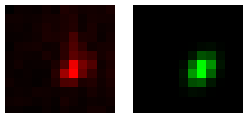Coordinates : 48.8 um (x), 21.8 um (y), 12.4 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

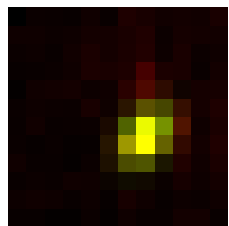| FWHM	Non corrected	Corrected	Theoretical
min	394 nm	410 nm	270 nm
max	563 nm	586 nm	270 nm
z	3.65 um	3.67 um	1.3 um
Asymmetry	0.7		
Theta	56.6°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.895$

Parameters:
A = 295.298   (brightness)
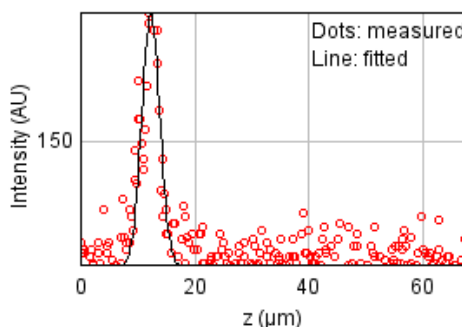B = 119.581   (background)
a = 0.731 px
b = 0.203 px
c = 0.557 px
xc = 6.985 px
yc = 6.520 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 18014.7145
Standard deviation: 7.66028
R^2: 0.78512
Parameters:
a = 113.16281
b = 188.88481
c = 12.37866
d = 1.55067

Bead 588

Date : Mon Oct 17 13:51:15 PDT 2022
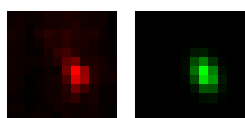Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 41.4 um (x), 6.63 um (y), 11.5 um (z)
Corresponding bead : Not found

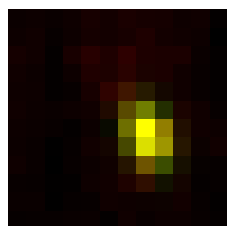| FWHM	Non corrected	Corrected	Theoretical
min	404 nm	421 nm	270 nm
max	608 nm	634 nm	270 nm
z	2.02 um	2.03 um	1.3 um
Asymmetry	0.664		
Theta	-69.3°		

XY profile & fitting parameters :

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

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

$R^2 = 0.924$

Parameters:
A = 338.404   (brightness)
B = 121.758   (background)
a = 0.765 px
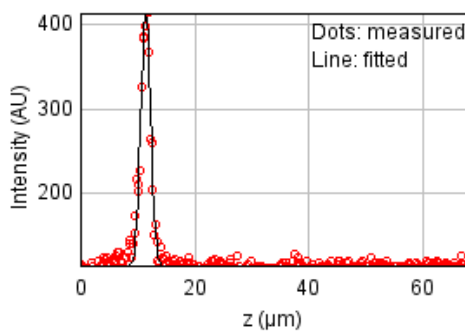b = -0.152 px
c = 0.420 px

xc = 7.118 px
yc = 6.385 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 24582.3089
Standard deviation: 8.94833
R^2: 0.96026
Parameters:
a = 113.65263
b = 413.61490
c = 11.49575
d = 0.85788

Bead 589

Date : Mon Oct 17 13:51:15 PDT 2022
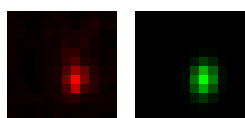Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 19.4 um (x), -1.64 um (y), 11.2 um (z)
Corresponding bead : Not found

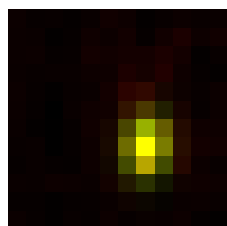| FWHM	Non corrected	Corrected	Theoretical
min	410 nm	427 nm	270 nm
max	584 nm	608 nm	270 nm
z	2.15 um	2.16 um	1.3 um
Asymmetry	0.703		
Theta	85.1°		

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 = 0.942

Parameters:
 A = 367.529   (brightness)
 B = 121.973   (background)
 a = 0.794 px
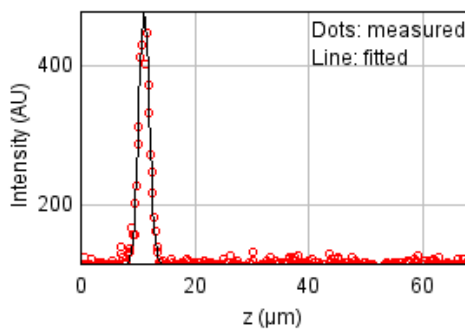 b = 0.034 px
 c = 0.397 px

xc = 7.046 px
yc = 6.954 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 24671.9829
Standard deviation: 8.96464
R^2: 0.97397
Parameters:
 a = 114.17478
 b = 476.92799
 c = 11.20624
 d = 0.91436

Bead 590 (Rejected)

Date : Mon Oct 17 13:51:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

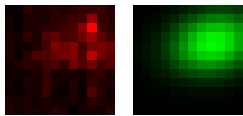Coordinates : -21.9 um (x), -15.4 um (y), 13.9 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

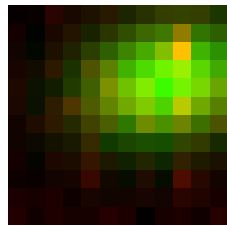| FWHM	Non corrected	Corrected	Theoretical
min	1.11 um	1.16 um	270 nm
max	1.61 um	1.67 um	270 nm
z	932 nm	936 nm	1.3 um
Asymmetry	0.693		
Theta	12.3°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.655$

Parameters:
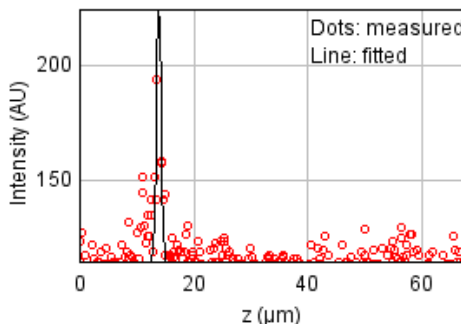 A = 62.216   (brightness)
 B = 112.956   (background)
 a = 0.055 px
 b = 0.012 px
 c = 0.106 px

xc = 8.286 px
yc = 3.644 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 17803.5794
Standard deviation: 7.61526
R^2: 0.68547
Parameters:
 a = 114.40041
 b = 225.86769
 c = 13.93243
 d = 0.39580

Bead 591 (Rejected)

Date : Mon Oct 17 13:51:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels
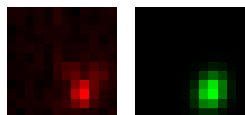
Coordinates : 117 um (x), -49.8 um (y), 8.58 um (z)
Corresponding bead : Not found
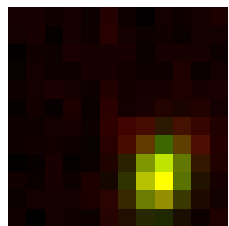Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

FWHM	Non corrected	Corrected	Theoretical
min	489 nm	510 nm	270 nm
max	646 nm	673 nm	270 nm
z	3.23 um	3.24 um	1.3 um
Asymmetry	0.758		
Theta	70.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
$R^2 = 0.865$

Parameters:
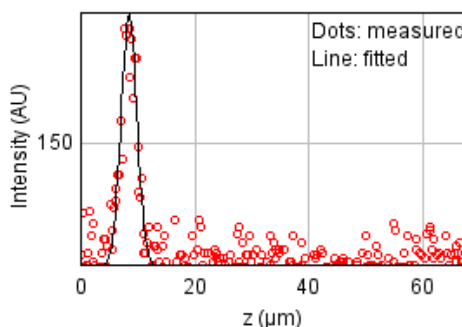A = 193.933   (brightness)
B = 118.382   (background)
a = 0.535 px
b = 0.074 px
c = 0.347 px

xc = 7.798 px
yc = 8.700 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 12750.9470
Standard deviation: 6.44469
R^2: 0.83396
Parameters:
a = 111.64441
b = 190.67976
c = 8.57529
d = 1.37092

Bead 592 (Rejected)

Date : Mon Oct 17 13:51:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

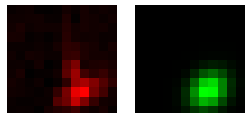Coordinates : 73.6 um (x), -67.0 um (y), 8.76 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

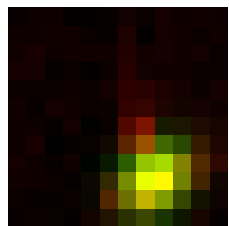| FWHM	Non corrected	Corrected	Theoretical
min	599 nm	624 nm	270 nm
max	743 nm	774 nm	270 nm
z	2.67 um	2.69 um	1.3 um
Asymmetry	0.807		
Theta	46.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.832$

Parameters:
 A = 200.083   (brightness)
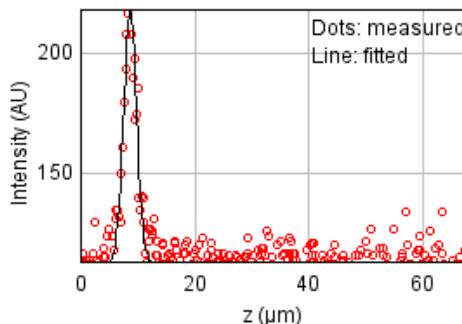 B = 116.411   (background)
 a = 0.313 px
 b = 0.065 px
 c = 0.304 px

xc = 7.497 px
yc = 8.822 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15564.2867
Standard deviation: 7.12025
R^2: 0.86008
Parameters:
 a = 112.72899
 b = 218.15475
 c = 8.75863
 d = 1.13593

Bead 593 (Rejected)

Date : Mon Oct 17 13:51:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

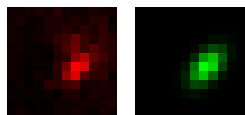Coordinates : 107 um (x), -74.0 um (y), 12.2 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

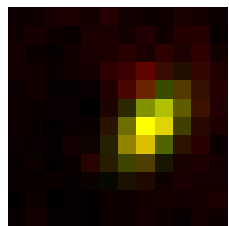| FWHM	Non corrected	Corrected	Theoretical
min	439 nm	457 nm	270 nm
max	762 nm	793 nm	270 nm
z	3.37 um	3.38 um	1.3 um
Asymmetry	0.576		
Theta	50.5°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
  $R^2 = 0.863$

Parameters:
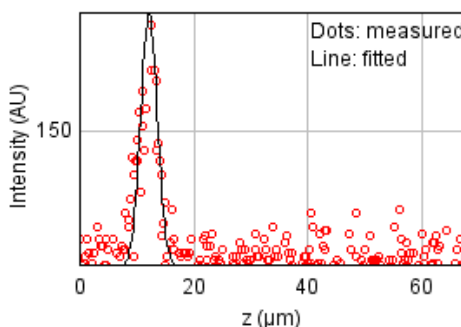 A = 256.968   (brightness)
 B = 120.919   (background)
 a = 0.508 px
 b = 0.228 px
 c = 0.419 px

xc = 7.324 px
yc = 5.990 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 14462.9751
Standard deviation: 6.86372
R^2: 0.79680
Parameters:
 a = 111.46165
 b = 184.38756
 c = 12.24265
 d = 1.43075

Bead 594 (Rejected)

Date : Mon Oct 17 13:51:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
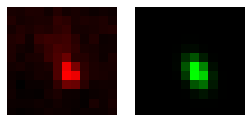Frame size : 12 pixels

Coordinates : -51.9 um (x), 91.9 um (y), 11.6 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

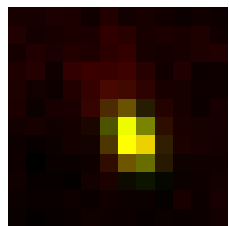| FWHM	Non corrected	Corrected	Theoretical
min	369 nm	384 nm	270 nm
max	554 nm	577 nm	270 nm
z	2.23 um	2.24 um	1.3 um
Asymmetry	0.667		
Theta	-62.9°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
    $R^2 = 0.877$

Parameters:
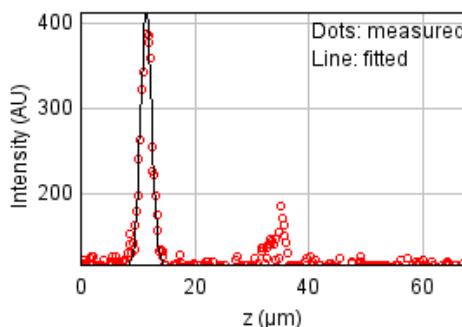 A = 317.746   (brightness)
 B = 125.187   (background)
 a = 0.871 px
 b = -0.222 px
 c = 0.551 px
xc = 6.291 px
yc = 6.626 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 43111.7745
Standard deviation: 11.85028
R^2: 0.93720
Parameters:
 a = 116.25115
 b = 413.89969
 c = 11.57573
 d = 0.94849

Bead 595 (Rejected)

Date : Mon Oct 17 13:51:16 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

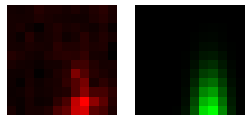Coordinates : 1.69 um (x), 89.3 um (y), 9.85 um (z)
Corresponding bead : Not found
Reason of rejection : The fitted bead is likely to be a different bead from the center bead.

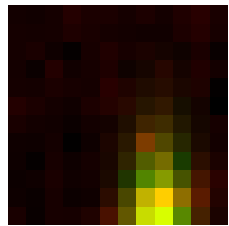| FWHM	Non corrected	Corrected	Theoretical
min	591 nm	615 nm	270 nm
max	1.95 um	2.03 um	270 nm
z	3.26 um	3.28 um	1.3 um
Asymmetry	0.303		
Theta	89.7°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * \exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.867$

Parameters:
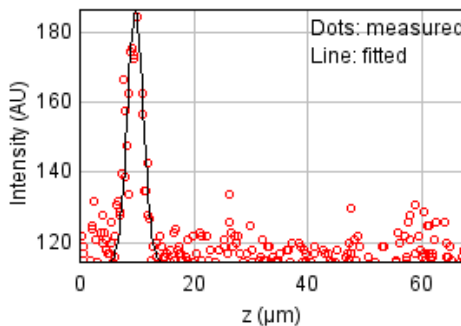 A = 219.697   (brightness)
 B = 117.590   (background)
 a = 0.384 px
 b = 0.002 px
 c = 0.035 px

xc = 7.677 px
yc = 13.509 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 15353.5600
Standard deviation: 7.07189
R^2: 0.77903
Parameters:
 a = 114.32668
 b = 186.63656
 c = 9.85064
 d = 1.38537

Bead 596

Date : Mon Oct 17 13:51:16 PDT 2022
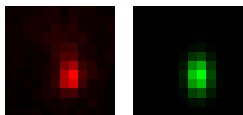Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 21.9 um (x), 89.8 um (y), 11.8 um (z)
Corresponding bead : Not found

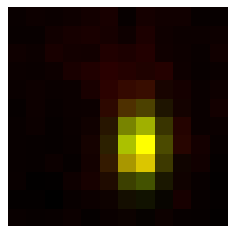| FWHM	Non corrected	Corrected	Theoretical
min	421 nm	438 nm	270 nm
max	656 nm	683 nm	270 nm
z	1.96 um	1.97 um	1.3 um
Asymmetry	0.641		
Theta	89.1°		

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
   $R^2 = 0.926$

Parameters:
 A = 364.783   (brightness)
 B = 122.995   (background)
 a = 0.759 px
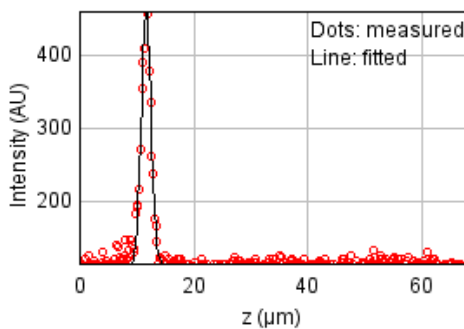 b = 0.007 px
 c = 0.312 px

xc = 6.683 px
yc = 7.099 px

Z profile & fitting parameters:

Fitted on y = a + (b-a)*exp(-(x-c)^2/(2*d^2)
Sum of residuals squared: 23820.9188
Standard deviation: 8.80866
R^2: 0.96994
Parameters:
 a = 114.81011
 b = 460.60824
 c = 11.75767
 d = 0.83440

Bead 597

Date : Mon Oct 17 13:51:16 PDT 2022
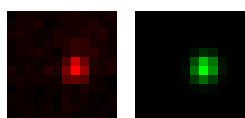Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

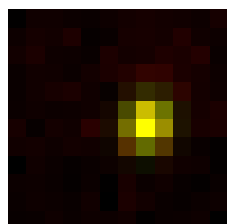Coordinates : 144 um (x), 79.4 um (y), 11.7 um (z)
Corresponding bead : Not found

FWHM	Non corrected	Corrected	Theoretical
min	429 nm	447 nm	270 nm
max	484 nm	504 nm	270 nm
z	2.28 um	2.29 um	1.3 um
Asymmetry	0.887		
Theta	73.0°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
   $R^2 = 0.925$

Parameters:
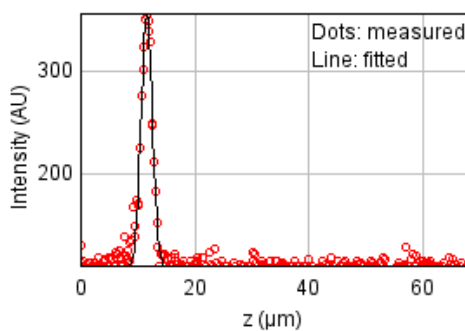 A = 248.060   (brightness)
 B = 116.803   (background)
 a = 0.714 px
 b = 0.043 px
 c = 0.586 px

xc = 7.105 px
yc = 5.747 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 19553.7990
Standard deviation: 7.98080
R^2: 0.95765
Parameters:
 a = 111.39844
 b = 355.78653
 c = 11.68073
 d = 0.96796

Bead 598

Date : Mon Oct 17 13:51:17 PDT 2022
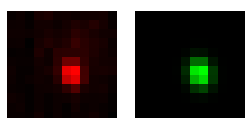Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 85.7 um (x), 61.0 um (y), 11.9 um (z)
Corresponding bead : Not found

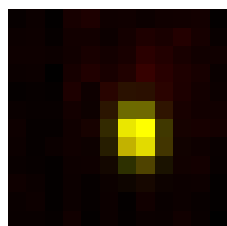| FWHM	Non corrected	Corrected	Theoretical
min	405 nm	422 nm	270 nm
max	513 nm	534 nm	270 nm
z	2.36 um	2.37 um	1.3 um
Asymmetry	0.79		
Theta	-79.8°		

XY profile & fitting parameters :

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

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

Parameters:
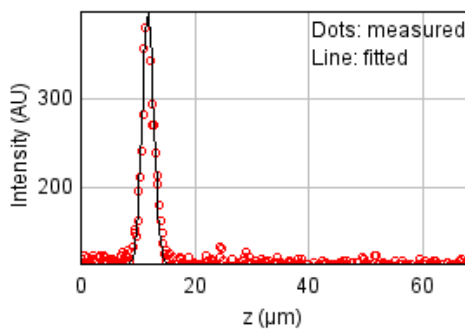 A = 413.526   (brightness)
 B = 122.045   (background)
 a = 0.808 px
 b = -0.054 px
 c = 0.520 px

xc = 6.581 px
yc = 6.311 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*\exp(-(x-c)^2/(2*d^2)$
Sum of residuals squared: 25815.1886
Standard deviation: 9.16998
R^2: 0.96041
Parameters:
 a = 112.77391
 b = 398.75203
 c = 11.88789
 d = 1.00315

Bead 599 (Rejected)

Date : Mon Oct 17 13:51:17 PDT 2022
Origin : data_traditional.tif (Nikon 40x0.95 air)
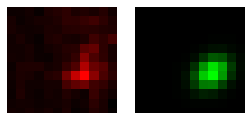Frame size : 12 pixels

Coordinates : 46.0 um (x), 55.2 um (y), 9.16 um (z)
Corresponding bead : Not found
Reason of rejection : R or C parameter off limits.

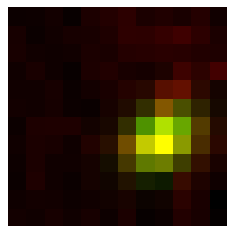| FWHM	Non corrected	Corrected	Theoretical
min	519 nm	541 nm	270 nm
max	683 nm	711 nm	270 nm
z	1.27 um	1.27 um	1.3 um
Asymmetry	0.76		
Theta	38.2°		

XY profile & fitting parameters :

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

Fitted on $i(x,y) = A * exp(-(a*(x-xc)^2 + c*(y-yc)^2 + 2*b*(x-xc)*(y-yc))) + B$
 $R^2 = 0.799$

Parameters:
 A = 163.276   (brightness)
 B = 118.269   (background)
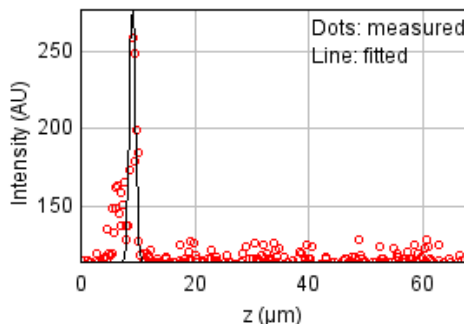 a = 0.368 px
 b = 0.102 px
 c = 0.418 px

xc = 7.910 px
yc = 6.668 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 34498.4573
Standard deviation: 10.60060
R^2: 0.76470
Parameters:
 a = 114.76653
 b = 277.92440
 c = 9.16277
 d = 0.53788

Bead 600

Date : Mon Oct 17 13:51:17 PDT 2022
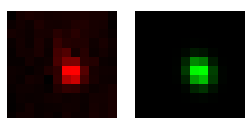Origin : data_traditional.tif (Nikon 40x0.95 air)
Frame size : 12 pixels

Coordinates : 75.6 um (x), 47.8 um (y), 11.8 um (z)
Corresponding bead : Not found

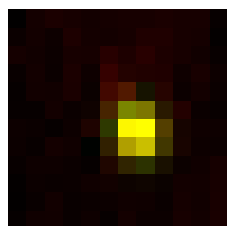| FWHM	Non corrected	Corrected	Theoretical
min	425 nm	442 nm	270 nm
max	517 nm	538 nm	270 nm
z	2.46 um	2.47 um	1.3 um
Asymmetry	0.822		
Theta	-70.6°		

XY profile & fitting parameters :

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

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

  $R^2 = 0.929$

Parameters:
  A = 298.243   (brightness)
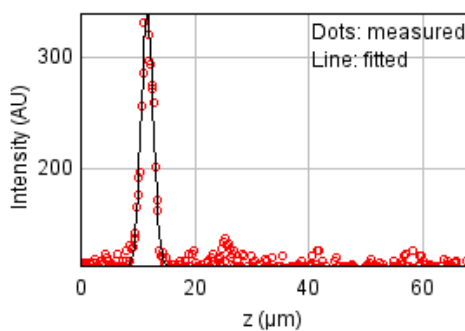 B = 120.178   (background)
  a = 0.717 px
  b = -0.076 px
  c = 0.529 px

  x_c = 6.538 px
  y_c = 6.158 px

Z profile & fitting parameters:

Fitted on $y = a + (b-a)*exp(-(x-c)^2/(2*d^2))$
Sum of residuals squared: 19684.3054
Standard deviation: 8.00739
R^2: 0.95357
Parameters:
 a = 113.99080
 b = 339.58520
 c = 11.76715
 d = 1.04298