

Sample

Name : GNP_11.4.16_9.10_3
Mesured On : 11.04.2016 17:18
by : Hannelore **logged as** : Expert

Comments from Hannelore :

SOP

Name : defaultSOP
Mode : Statistical
Time limitation : 60 s
Temperature : 25 °C

Acquisitions : 5

Device Settings

Time interval	: 2 µs	Number of channels	: 600
Laser power	: 59.4 %	Wavelength	: 657 nm
DTC Position	: UP		

Liquid Medium

Refractive index	: 1.331	Viscosity	: 0.888 cP
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Particles

Real part	: 1.56	Imaginary part	: 0.01
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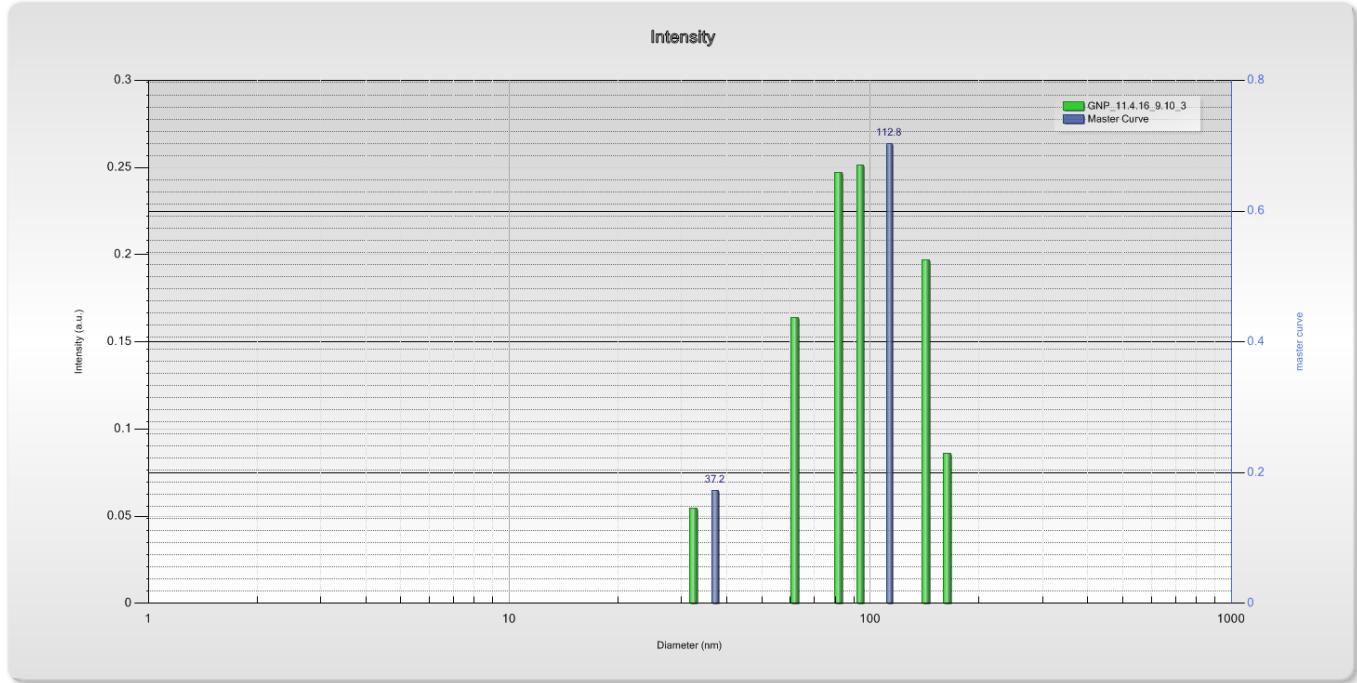
Algorithm

Pade Laplace	Cumulants
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Measurement

Average count rate : 2270 kcps
Number of rejected : 1

Duration : 00:05:14
Number of modified : 0



Dispersion statistics

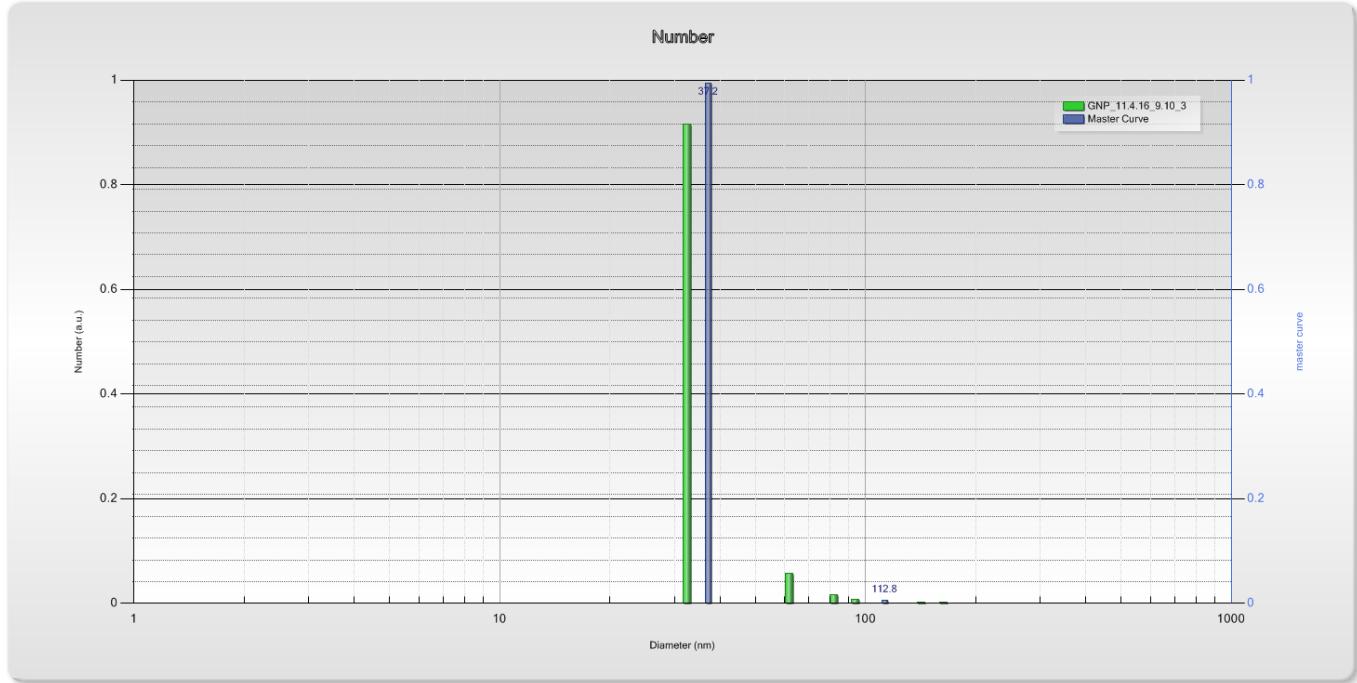
Di 10%: 61.83 nm

Di 50%: 93.73 nm

Di 90%: 142.11 nm

Dispersion data

Size (nm)	Intensity						
32.36	0.05	81.59	0.25	142.11	0.2		
61.83	0.16	93.73	0.25	163.25	0.09		



Dispersion statistics

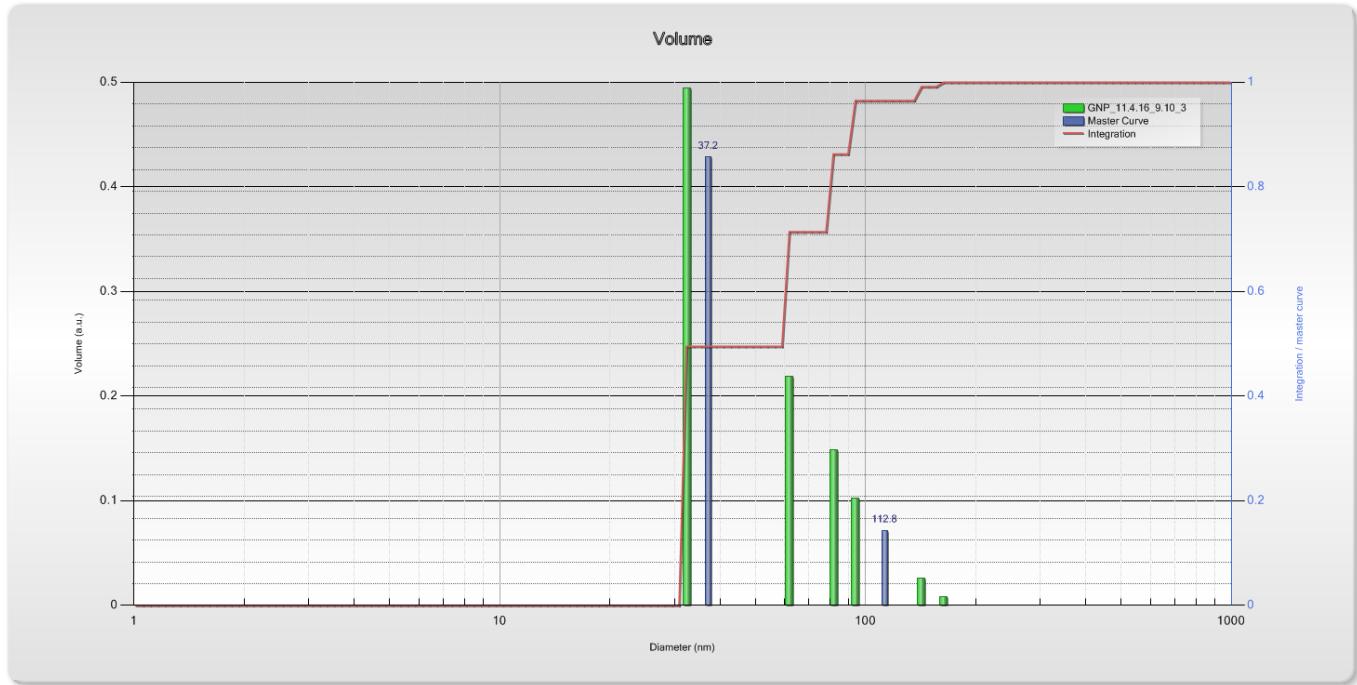
Dn 10%: 32.36 nm

Dn 50%: 32.36 nm

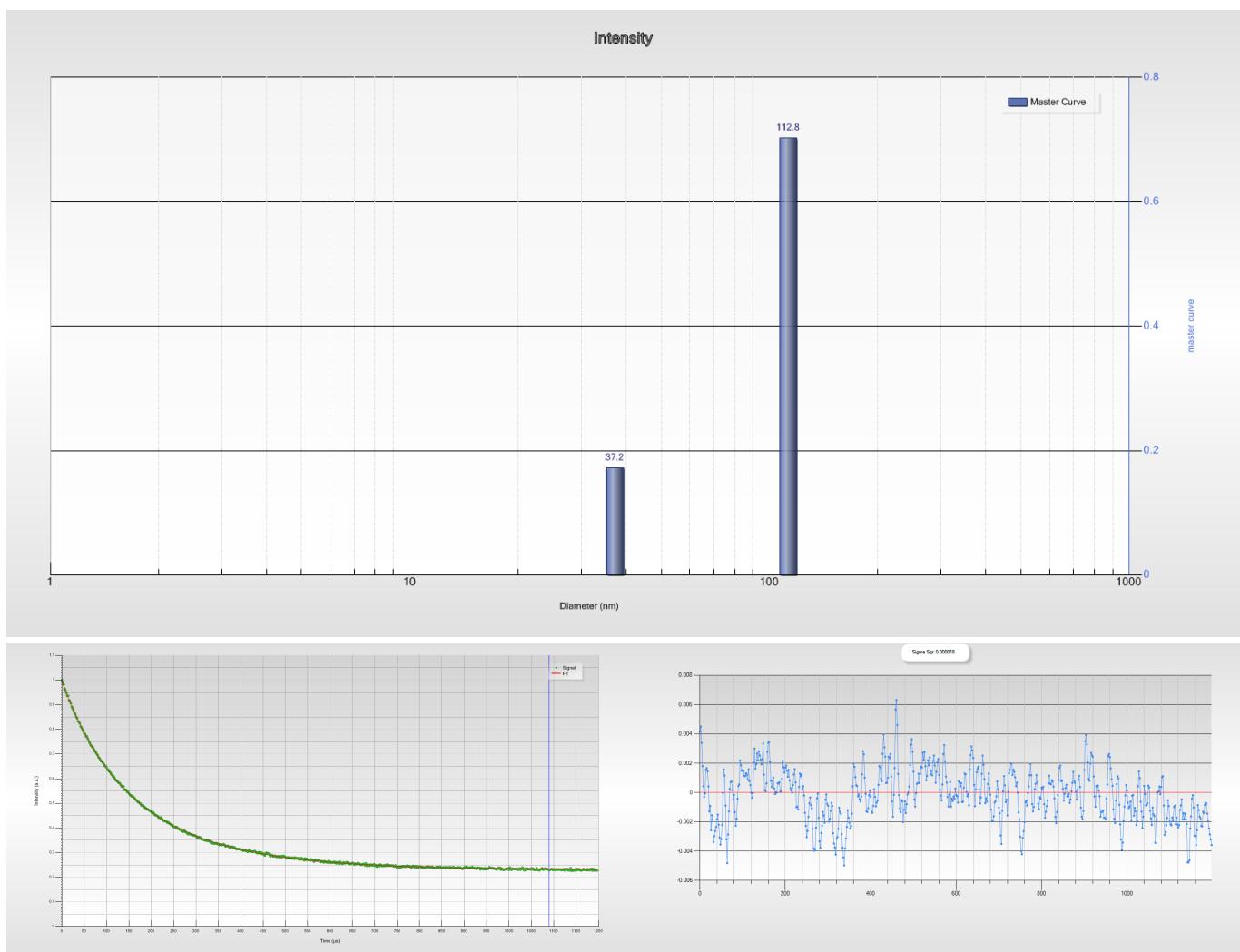
Dn 90%: 32.36 nm

Dispersion data

Size (nm)	Number						
32.36	0.92	81.59	0.02				
61.83	0.06	93.73	0.01	112.8			

**Dispersion statistics****D_v 10%:** 32.36 nm**D_v 50%:** 61.83 nm**D_v 90%:** 93.73 nm**Dispersion data**

Size (nm)	Volume						
32.36	0.49	81.59	0.15	142.11	0.03		
61.83	0.22	93.73	0.1	163.25	0.01		



Dispersion statistics

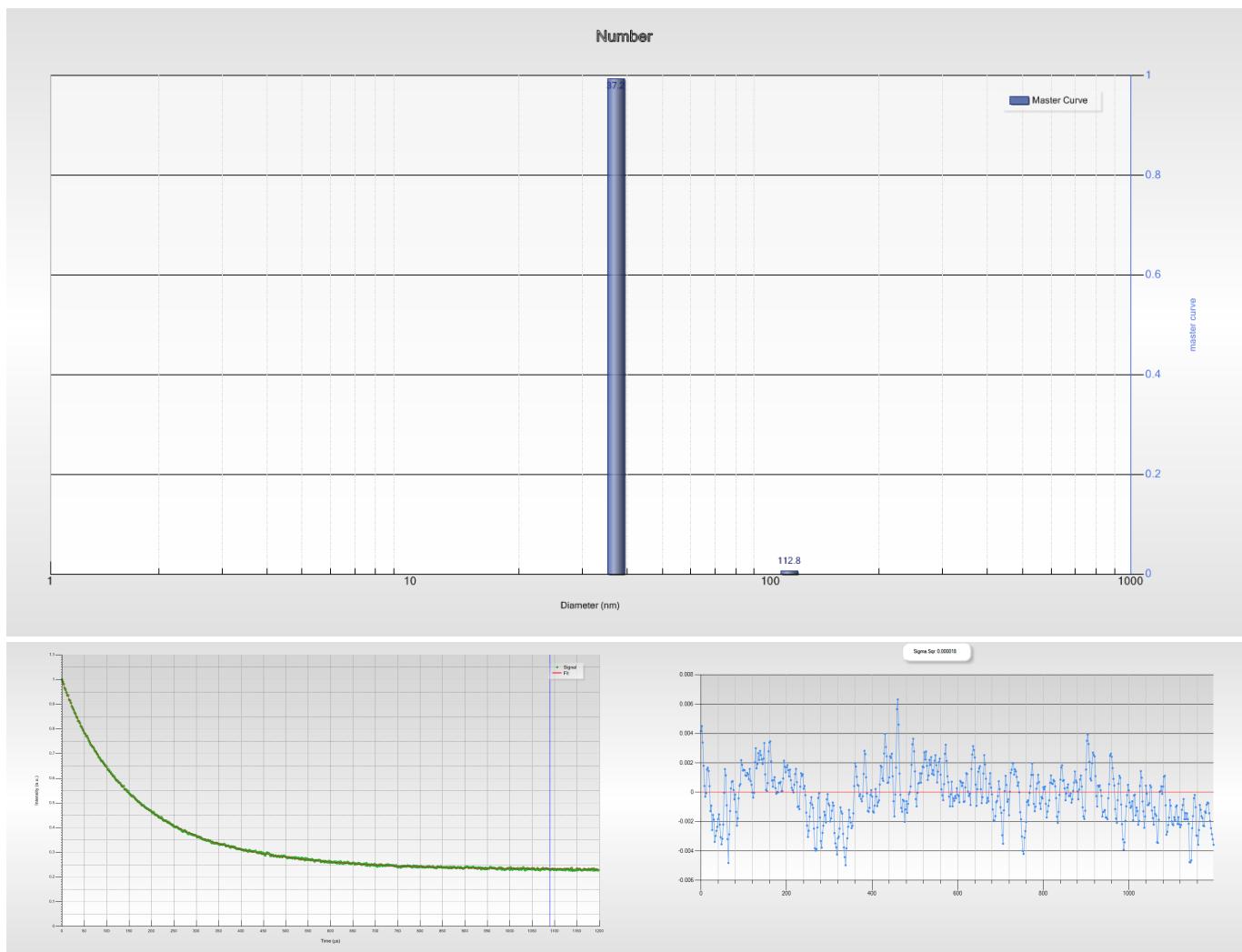
Di 10%: 37.18 nm **Di 50%:** 112.77 nm **Di 90%:** 112.77 nm
Mean Intensity: 97.88 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
36.88	0.17	7044.87	13.32775E-012
111.76	0.7	2324.65	43.9786E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
37.18	0.2	112.77	0.8



Dispersion statistics

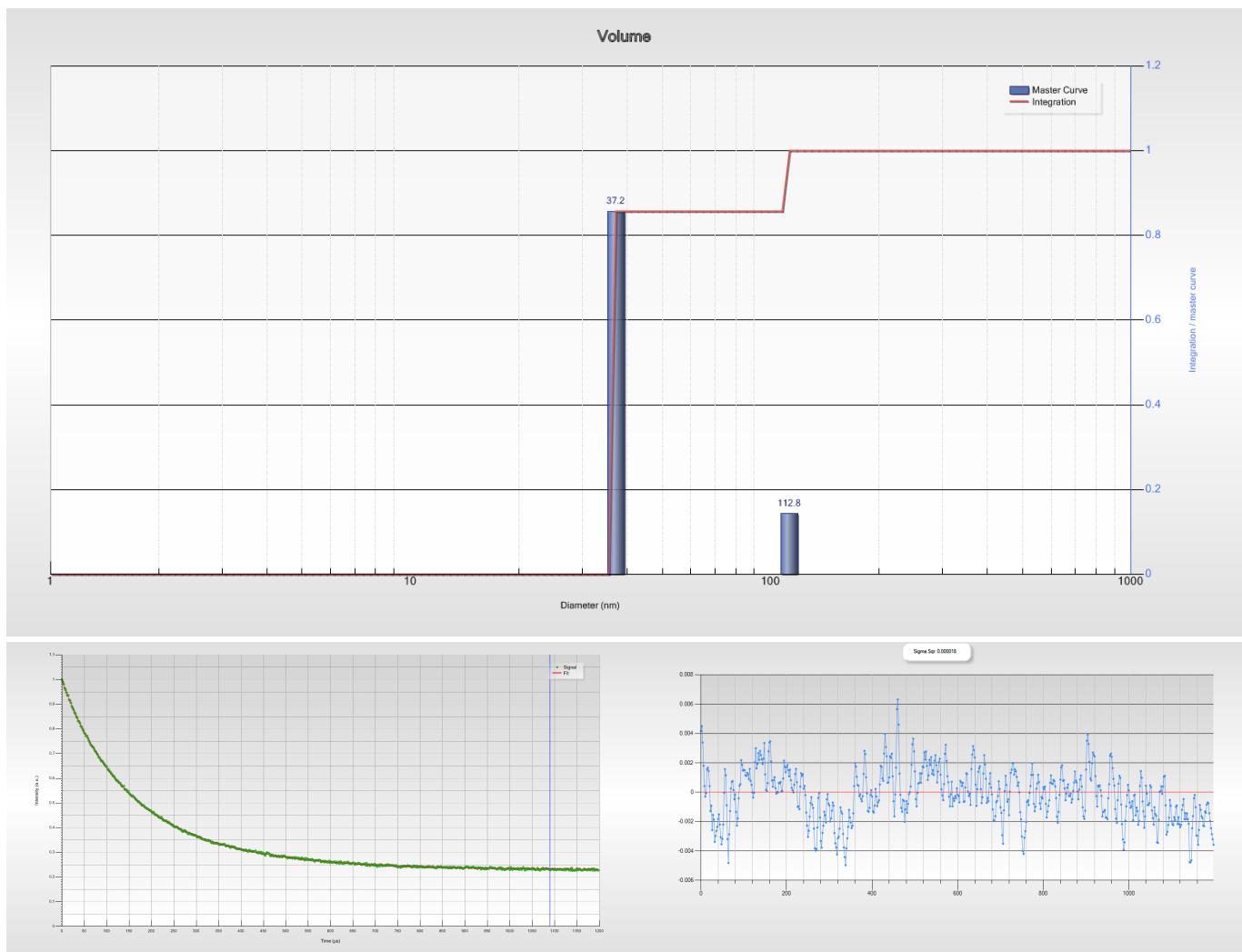
Dn 10%: 37.18 nm **Dn 50%:** 37.18 nm **Dn 90%:** 37.18 nm
Mean Number: 37.63 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
36.88	0.17	7044.87	13.32775E-012
111.76	0.7	2324.65	43.9786E-013

Dispersion data

Size (nm)	Number	Size (nm)	Number
37.18	0.99	112.77	0.01



Dispersion statistics

D_v 10%: 37.18 nm

Mean Volume: 48 nm

D_v 50%: 37.18 nm

D_v 90%: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
36.88	0.17	7044.87	13.32775E-012
111.76	0.7	2324.65	43.9786E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
37.18	0.86	112.77	0.14

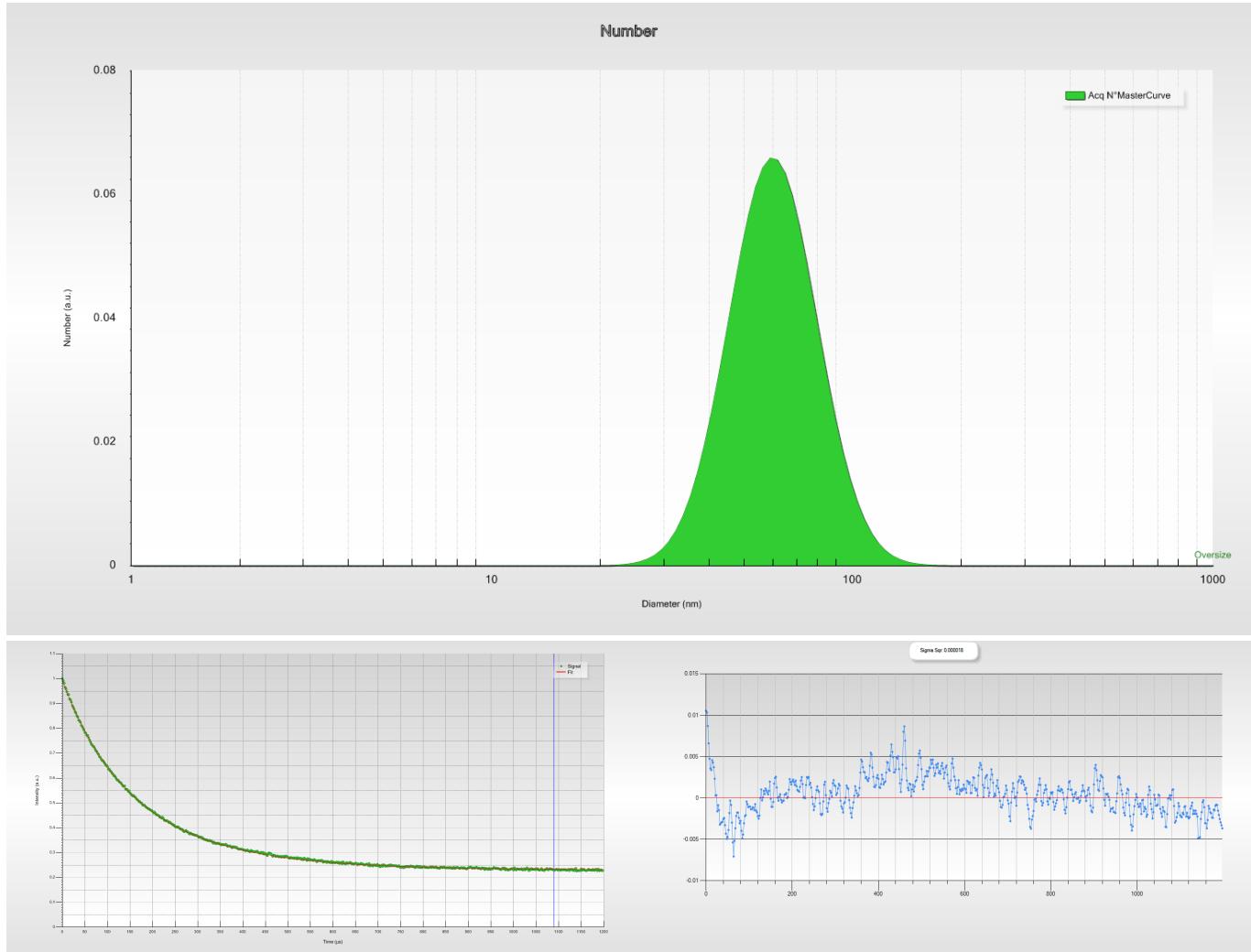


Distribution statistics

Di 10%: 64.75 nm	Di 50%: 93.73 nm	Di 90%: 135.68 nm
Mean Intensity: 97.65 nm		
PDI : 0.31562		Std Dev: 28.09%

Detected size(s)

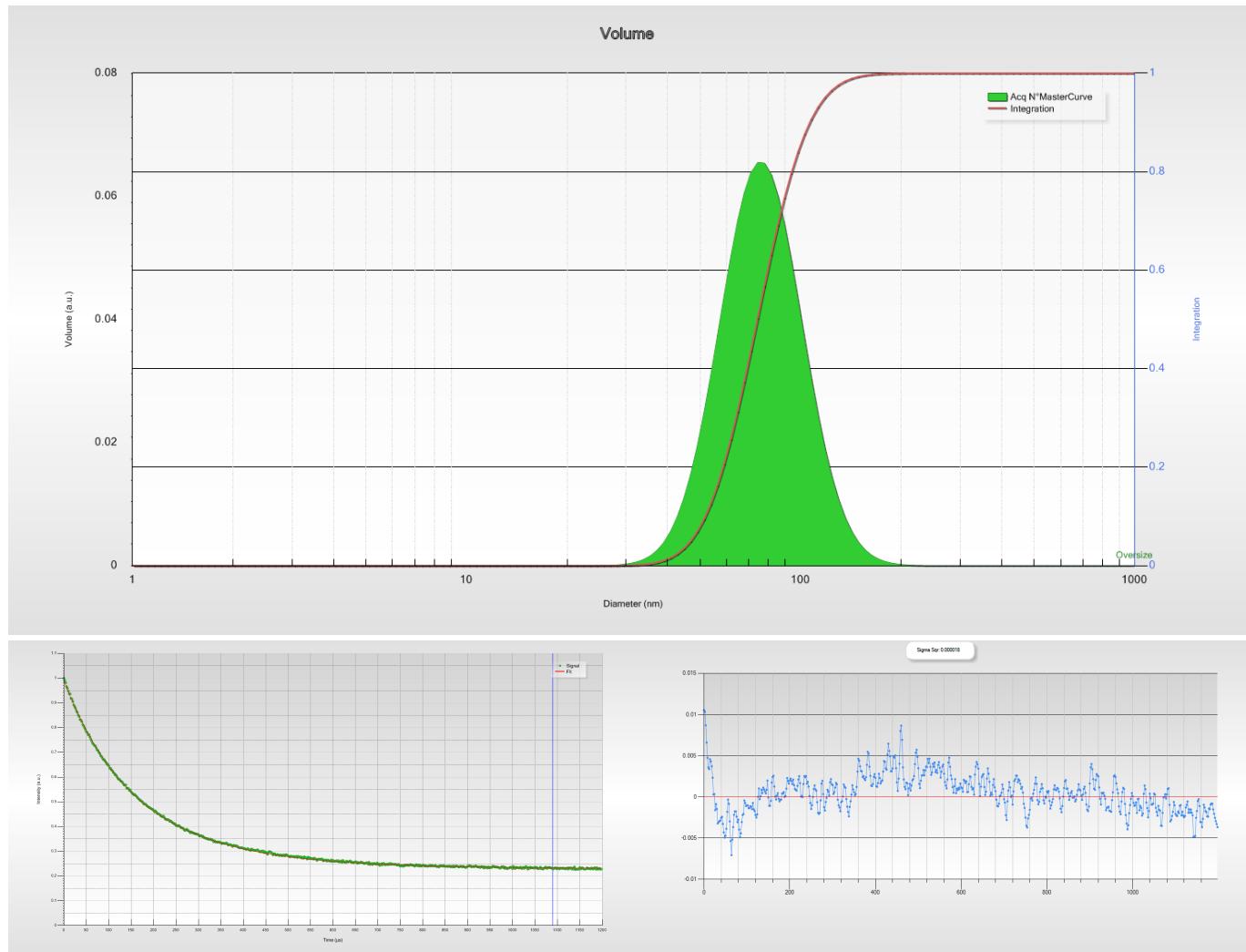
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
83.89	0.76	3097.4	58.59779E-013

**Distribution statistics**

Dn 10%: 42.71 nm	Dn 50%: 59.03 nm	Dn 90%: 85.45 nm
Mean Number: 62.45 nm		
PDI : 0.31562		Std Dev: 28.09%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
83.89	0.76	3097.4	58.59779E-013



Distribution statistics

D_v 10%: 53.82 nm

D_v 50%: 74.39 nm

D_v 90%: 107.68 nm

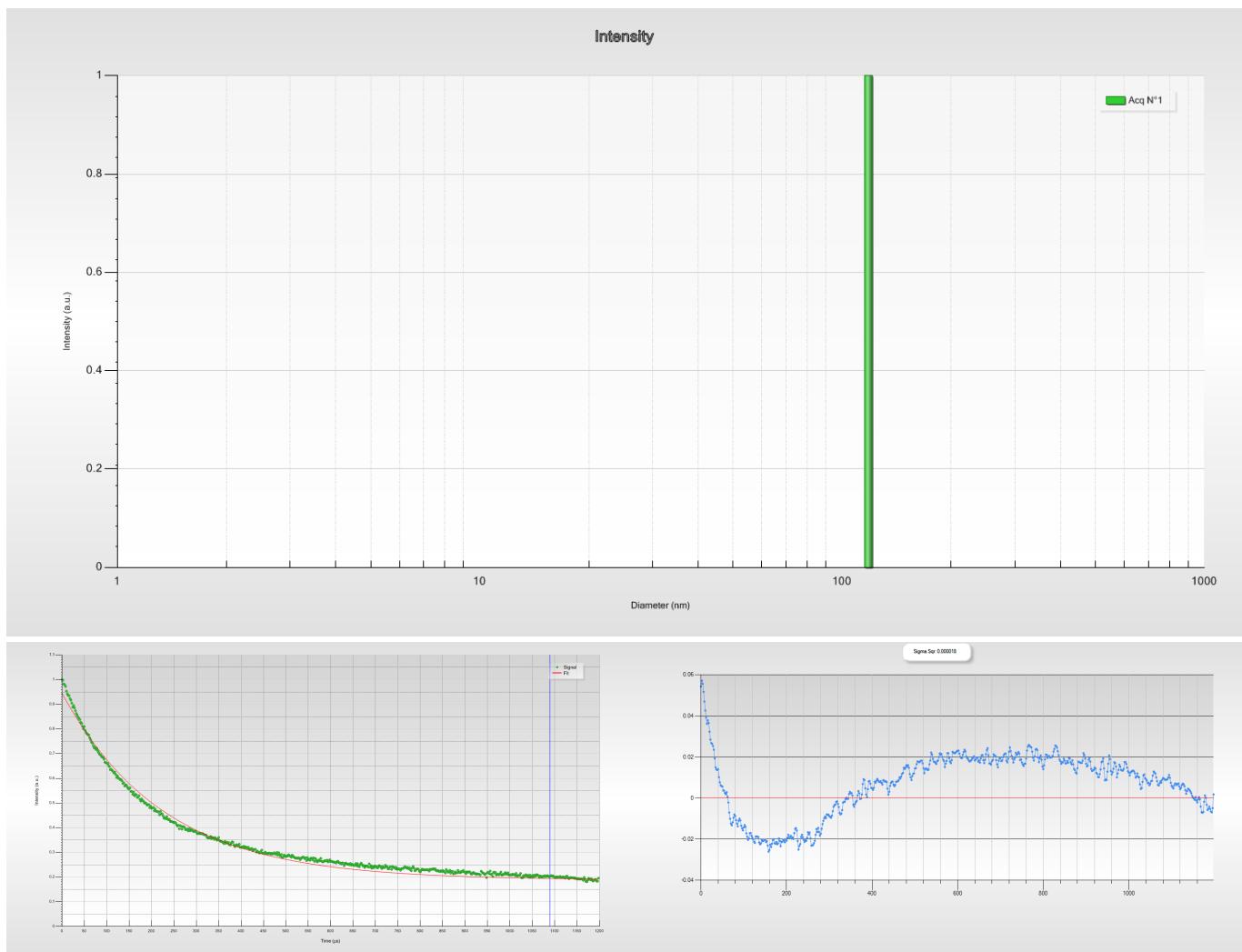
Mean Volume: 79.1 nm

PDI : 0.31562

Std Dev: 28.09%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
83.89	0.76	3097.4	58.59779E-013



Dispersion statistics

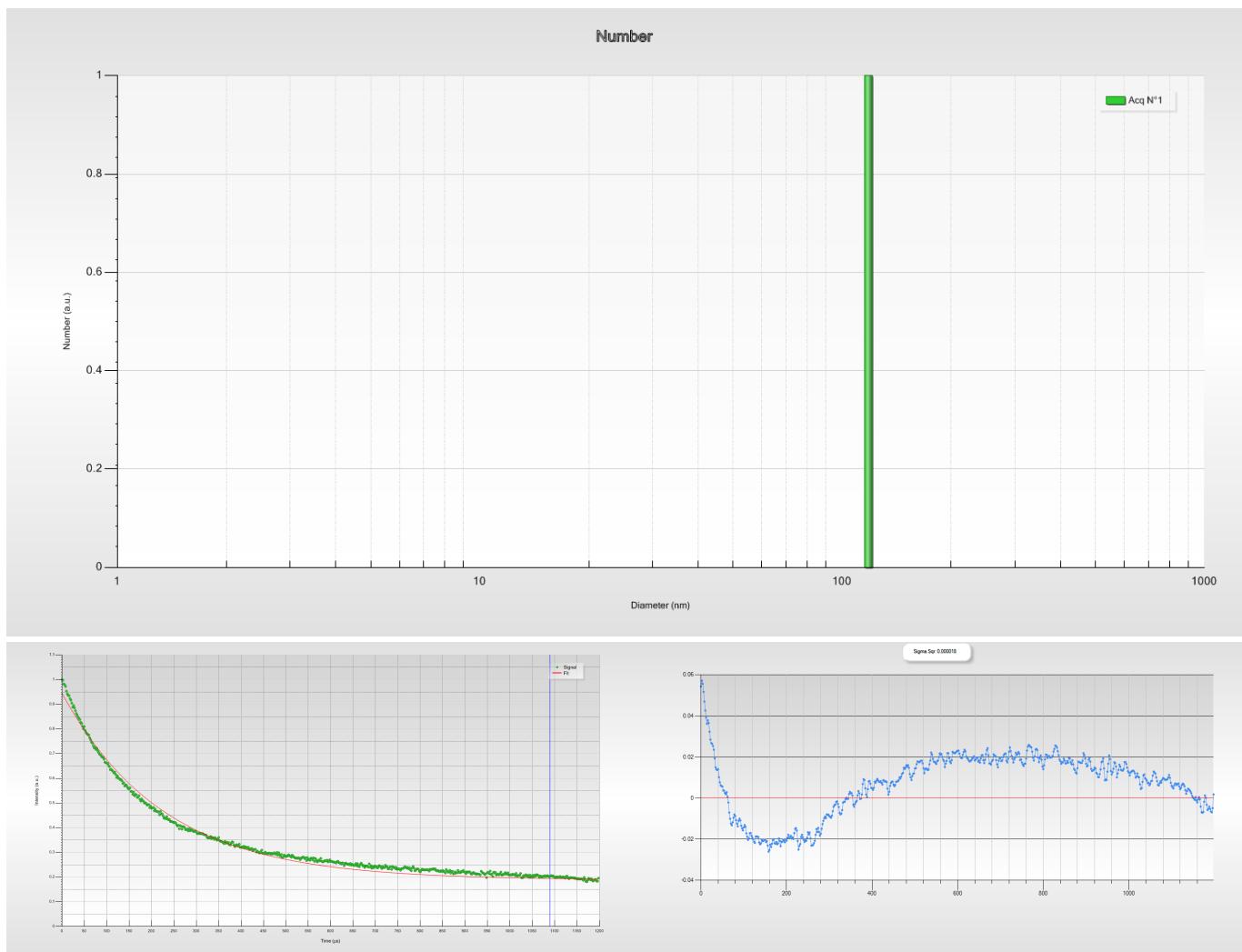
Di 10%: 118.11 nm **Di 50%:** 118.11 nm **Di 90%:** 118.11 nm
Mean Intensity: 118.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
117.8	0.87	2205.3	41.72064E-013

Dispersion datas

Size (nm)	Intensity
118.11	1



Dispersion statistics

Dn 10%: 118.11 nm

Mean Number: 118.11 nm

Dn 50%: 118.11 nm

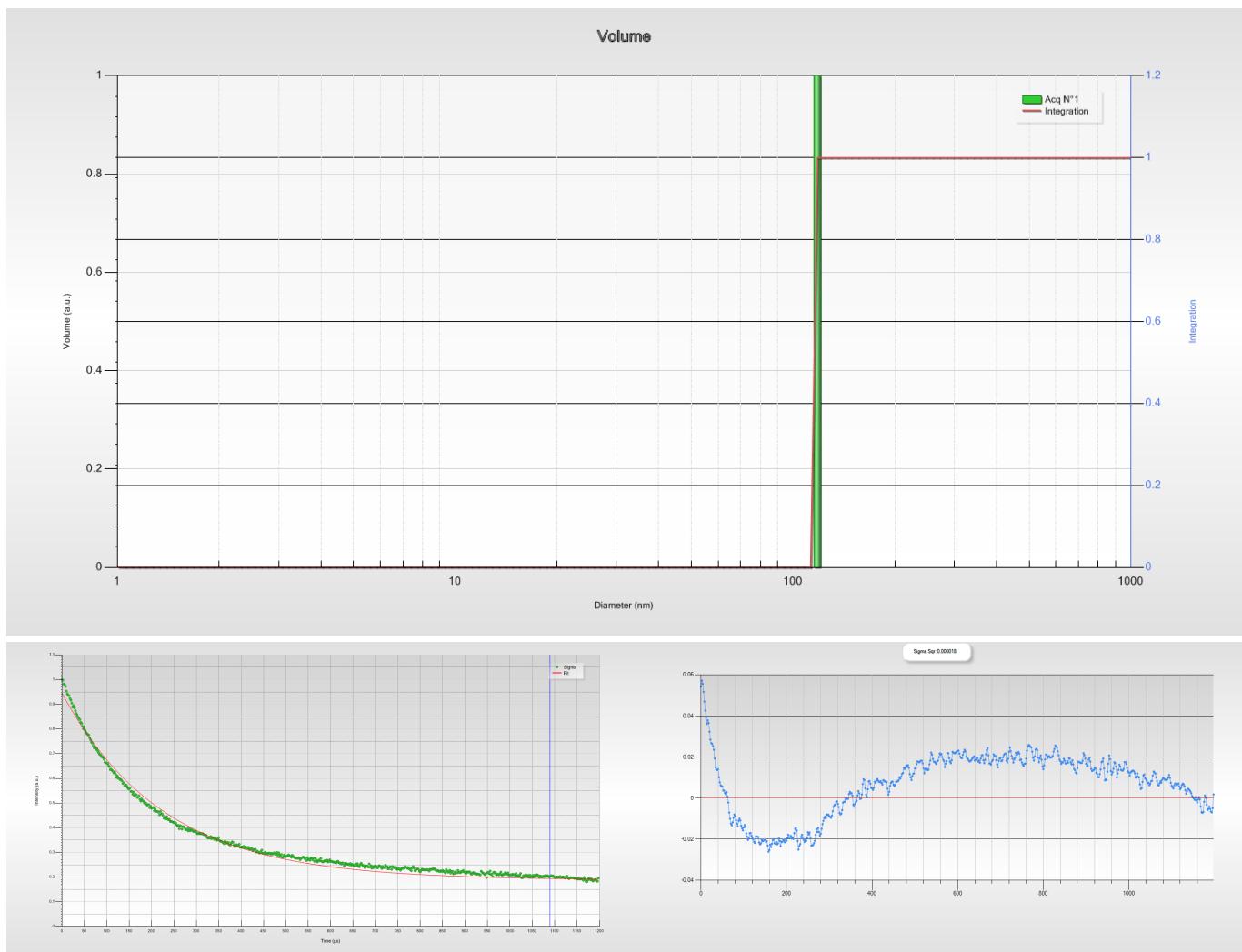
Dn 90%: 118.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
117.8	0.87	2205.3	41.72064E-013

Dispersion datas

Size (nm)	Number
118.11	1



Dispersion statistics

D_v 10%: 118.11 nm
Mean Volume: 118.11 nm

D_v 50%: 118.11 nm

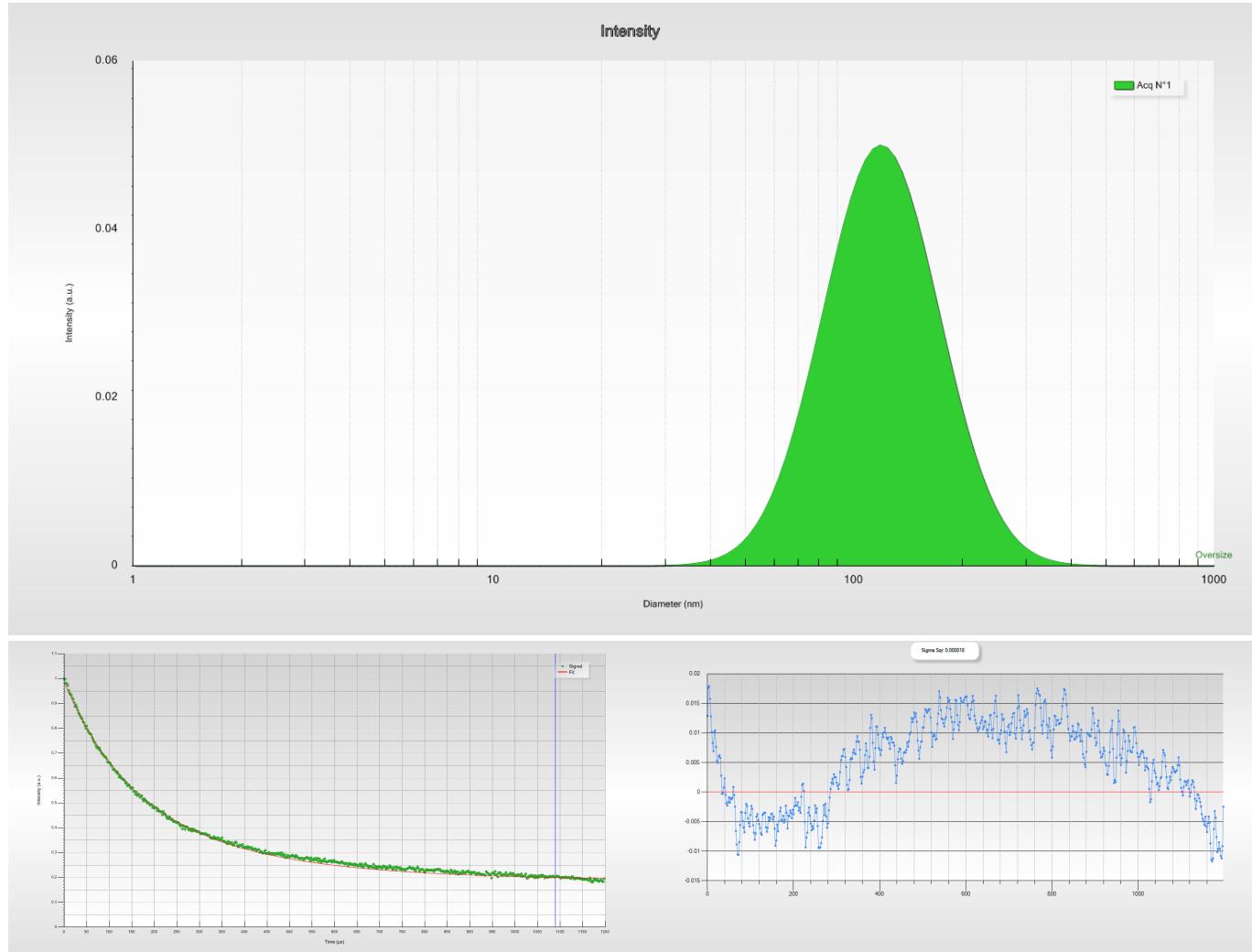
D_v 90%: 118.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
117.8	0.87	2205.3	41.72064E-013

Dispersion datas

Size (nm)	Volume
118.11	1

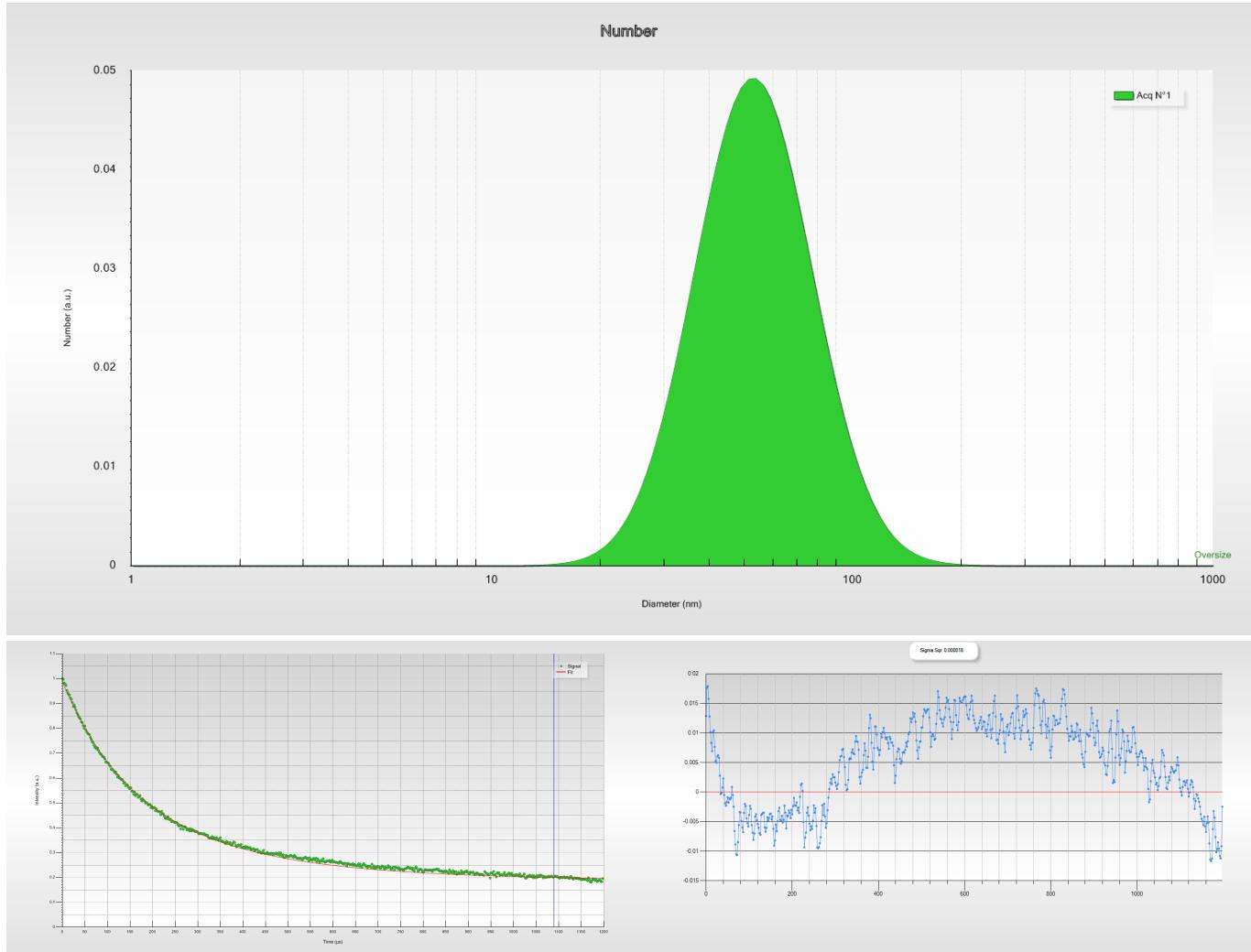


Distribution statistics

Di 10%: 74.39 nm **Di 50%:** 118.11 nm **Di 90%:** 187.54 nm
Mean Intensity: 127.13 nm **Std Dev:** 38.18%
PDI : 0.58295

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
96.83	0.8	2682.97	50.75753E-013

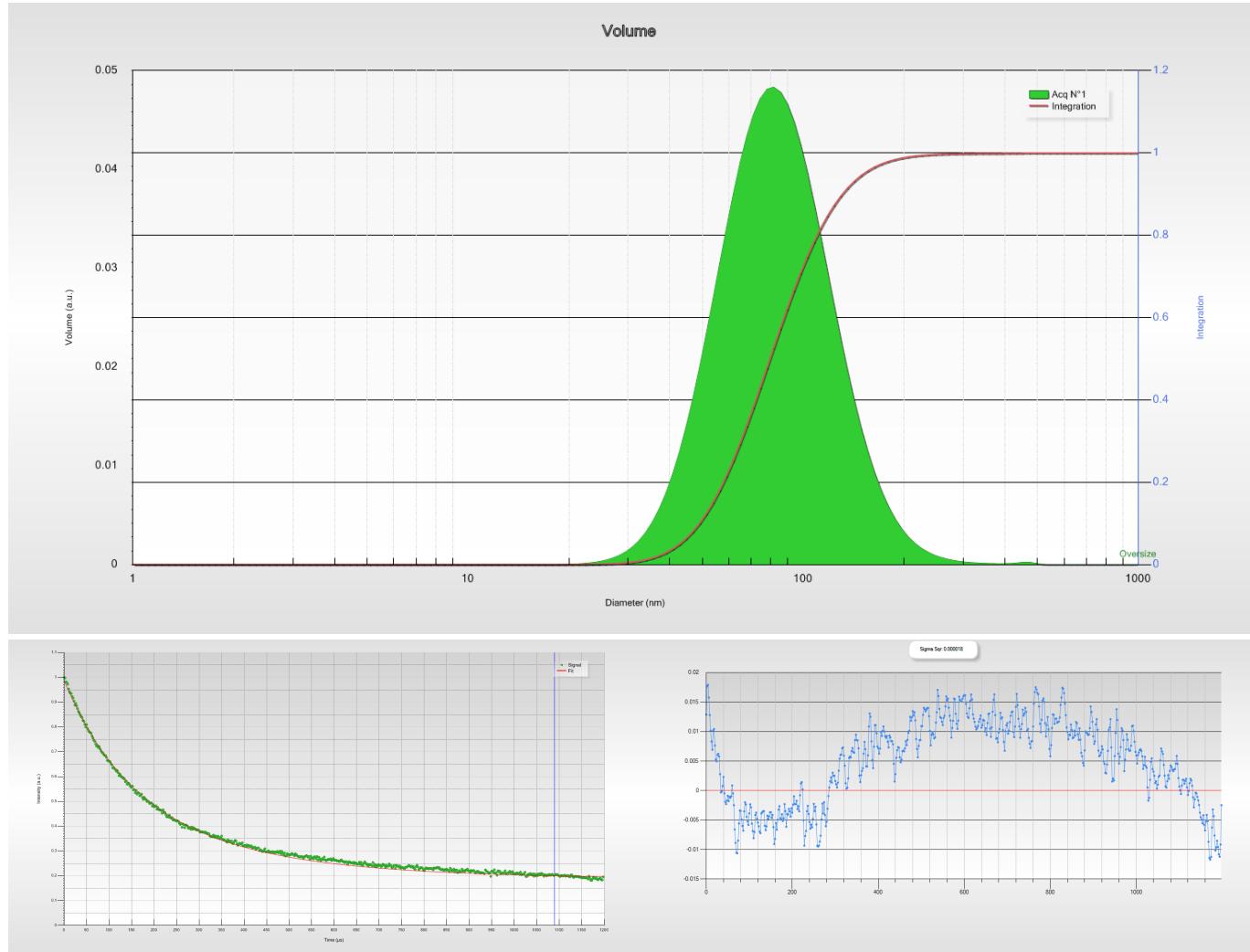


Distribution statistics

Dn 10%: 32.36 nm	Dn 50%: 53.82 nm	Dn 90%: 85.45 nm
Mean Number: 57.03 nm		
PDI : 0.58295		Std Dev: 38.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
96.83	0.8	2682.97	50.75753E-013



Distribution statistics

D_v 10%: 49.06 nm

Mean Volume: 88.45 nm

PDI : 0.58295

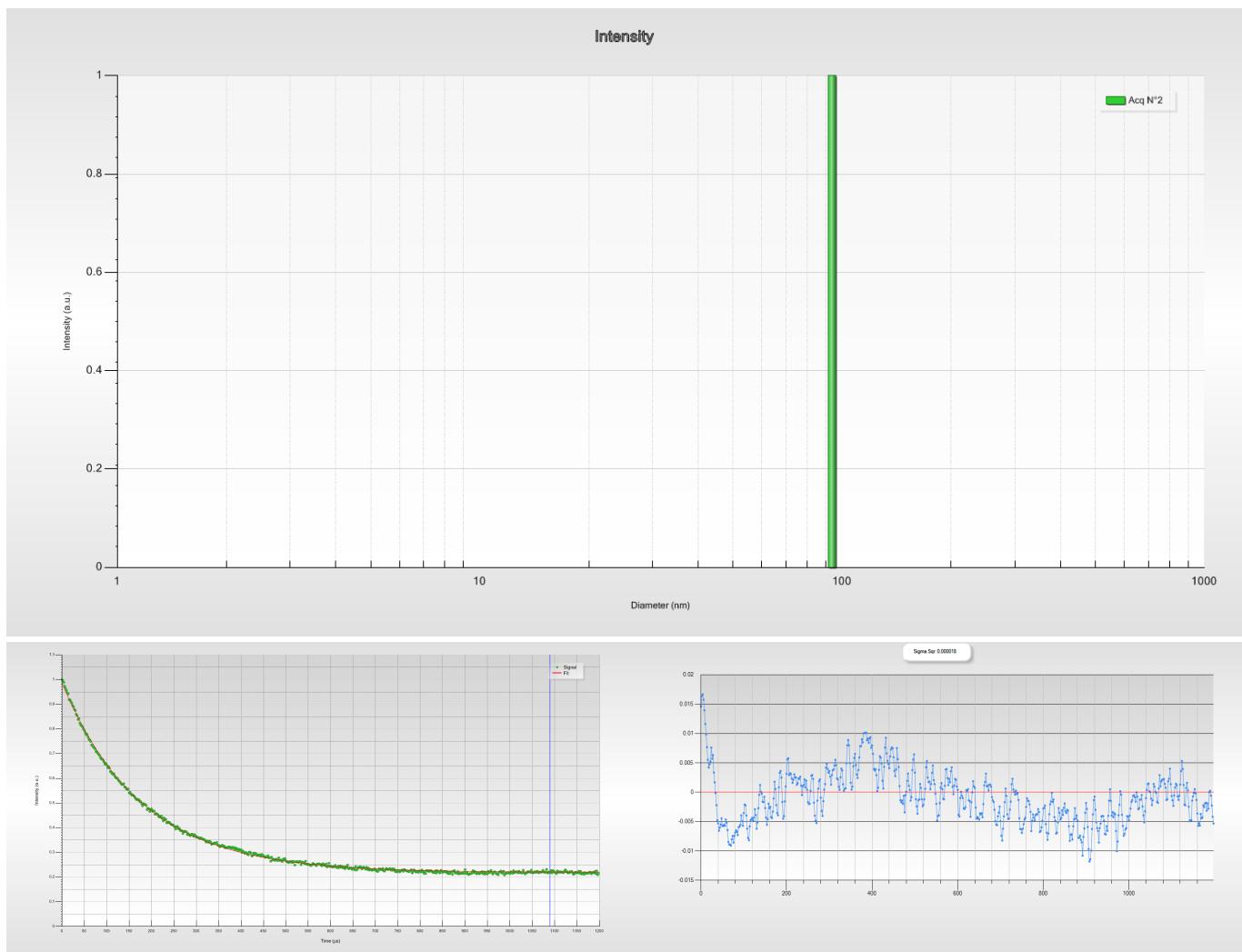
D_v 50%: 81.59 nm

D_v 90%: 135.68 nm

Std Dev: 38.18%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
96.83	0.8	2682.97	50.75753E-013



Dispersion statistics

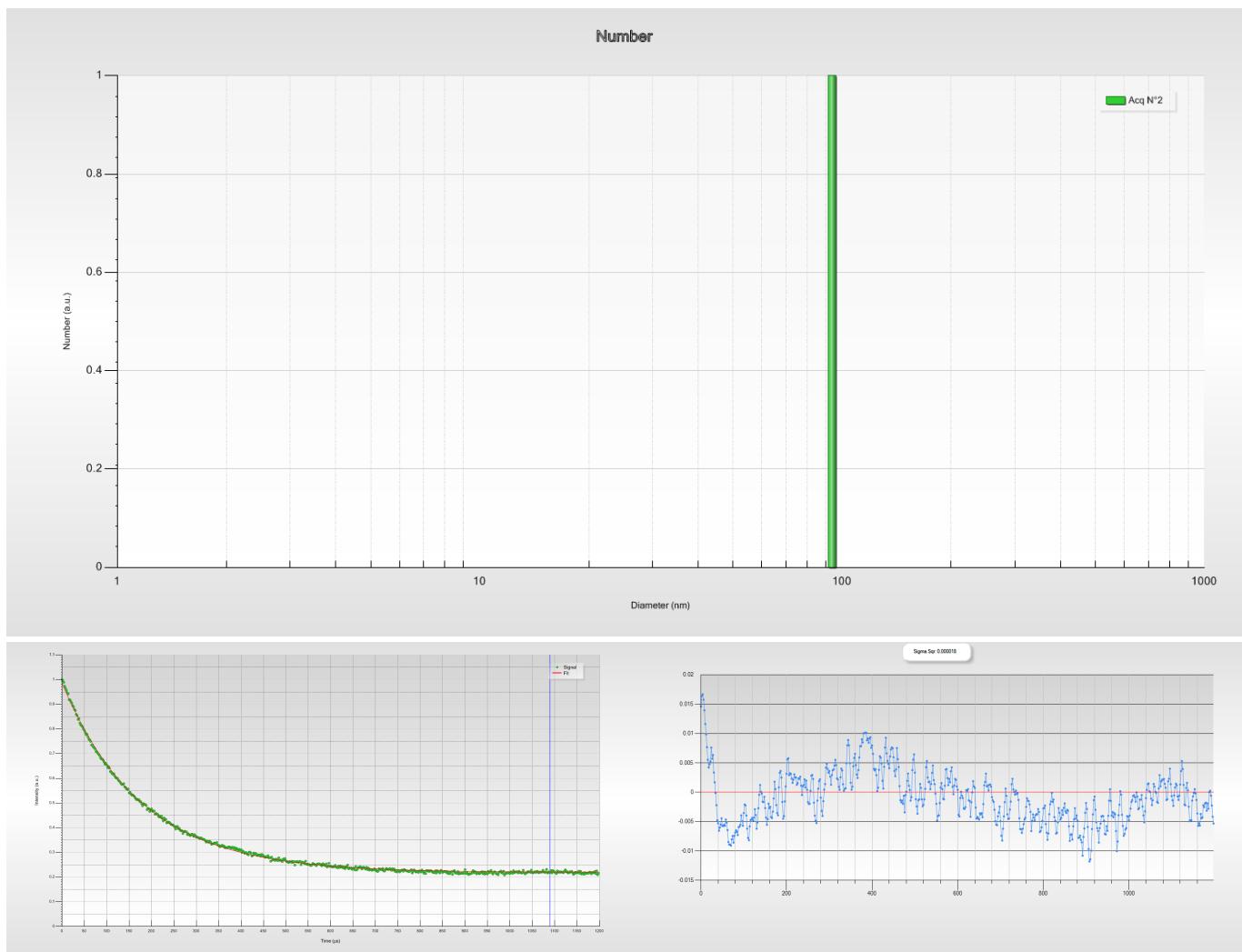
Di 10%: 93.73 nm **Di 50%:** 93.73 nm **Di 90%:** 93.73 nm
Mean Intensity: 93.73 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.42	0.88	2810.9	53.17765E-013

Dispersion data

Size (nm)	Intensity
93.73	1



Dispersion statistics

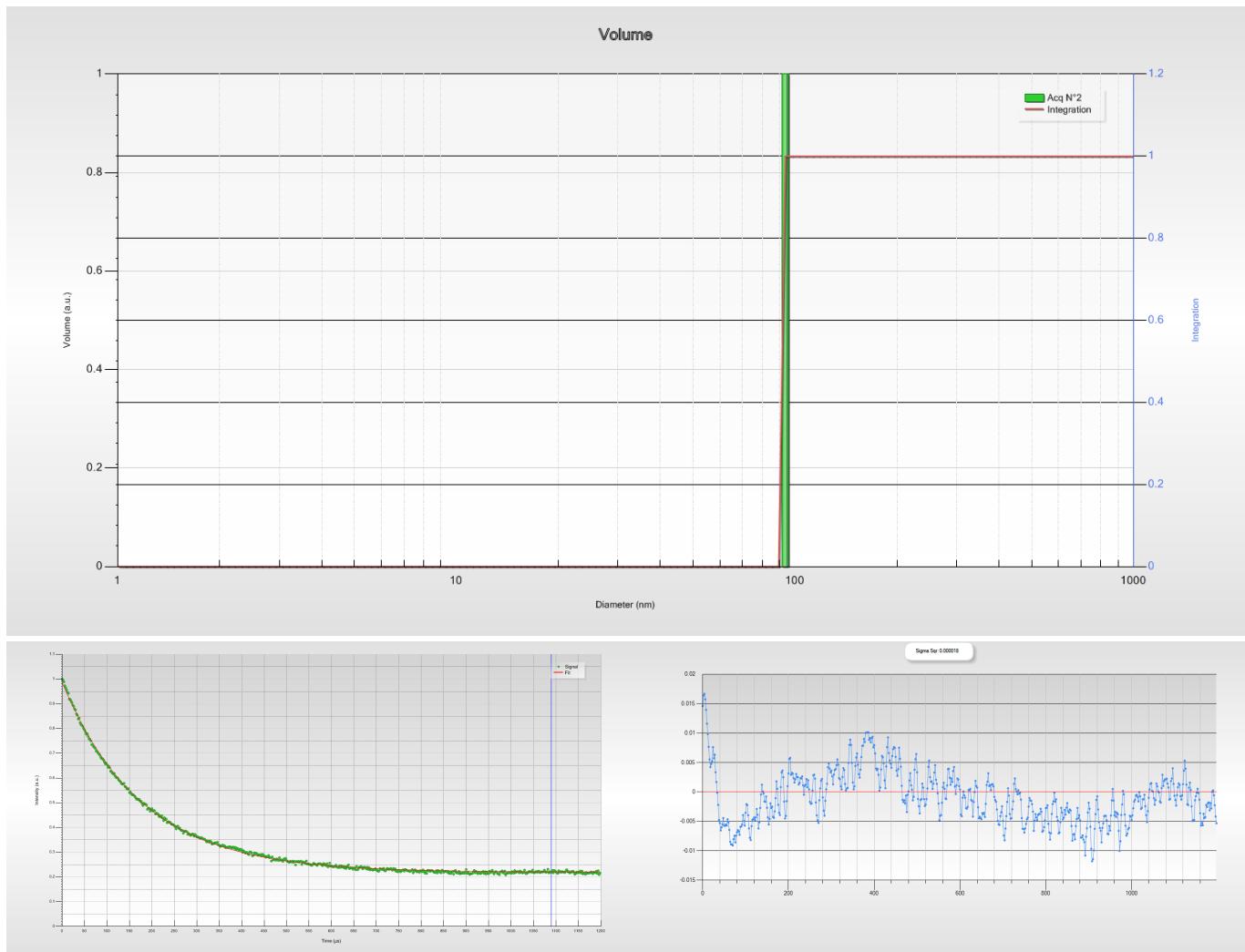
Dn 10%: 93.73 nm **Dn 50%:** 93.73 nm **Dn 90%:** 93.73 nm
Mean Number: 93.73 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.42	0.88	2810.9	53.17765E-013

Dispersion datas

Size (nm)	Number
93.73	1



Dispersion statistics

D_v 10%: 93.73 nm
Mean Volume: 93.73 nm

D_v 50%: 93.73 nm

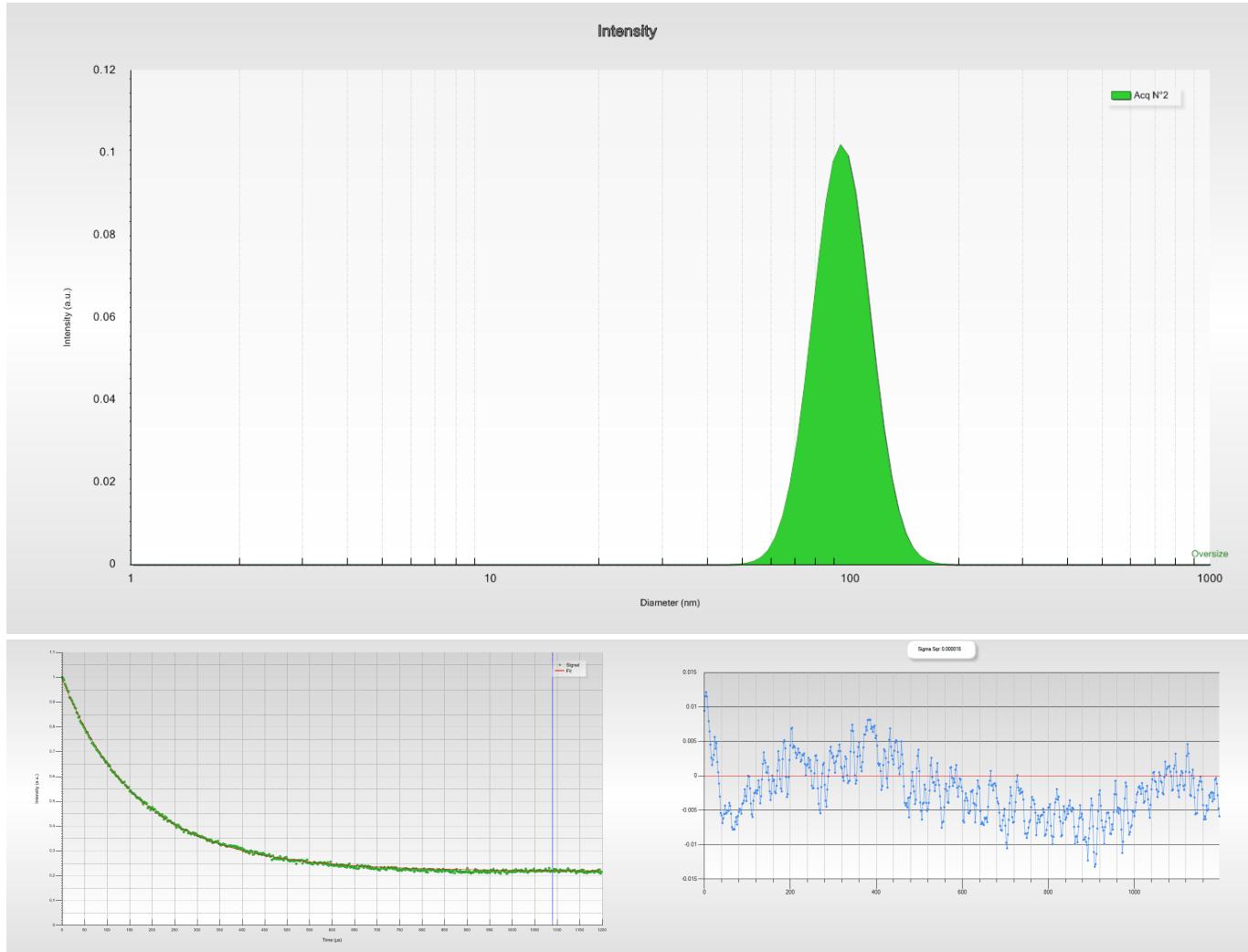
D_v 90%: 93.73 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.42	0.88	2810.9	53.17765E-013

Dispersion datas

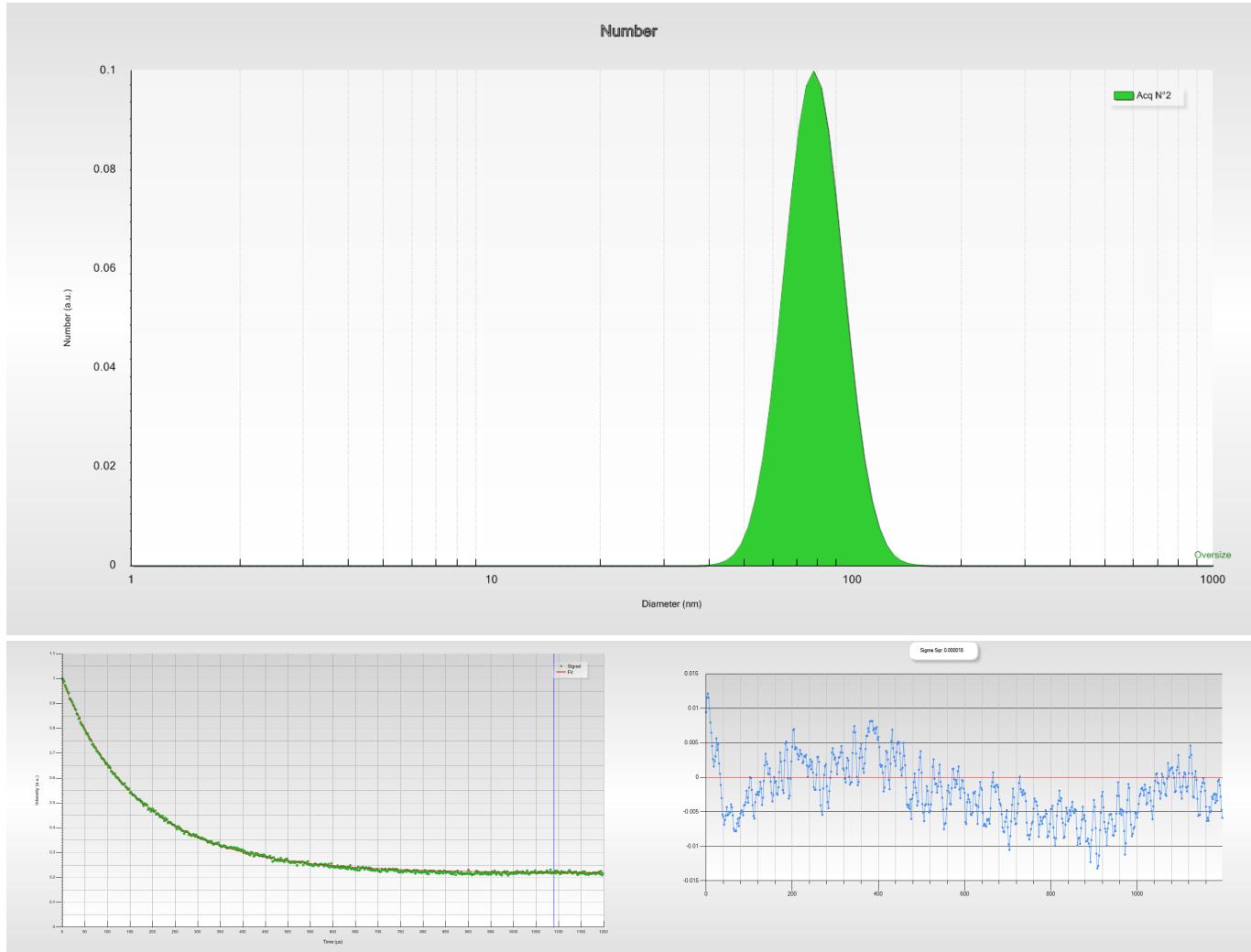
Size (nm)	Volume
93.73	1

**Distribution statistics**

Di 10%: 74.39 nm	Di 50%: 93.73 nm	Di 90%: 118.11 nm
Mean Intensity: 95.79 nm		
PDI : 0.13282		Std Dev: 18.22%

Detected size(s)

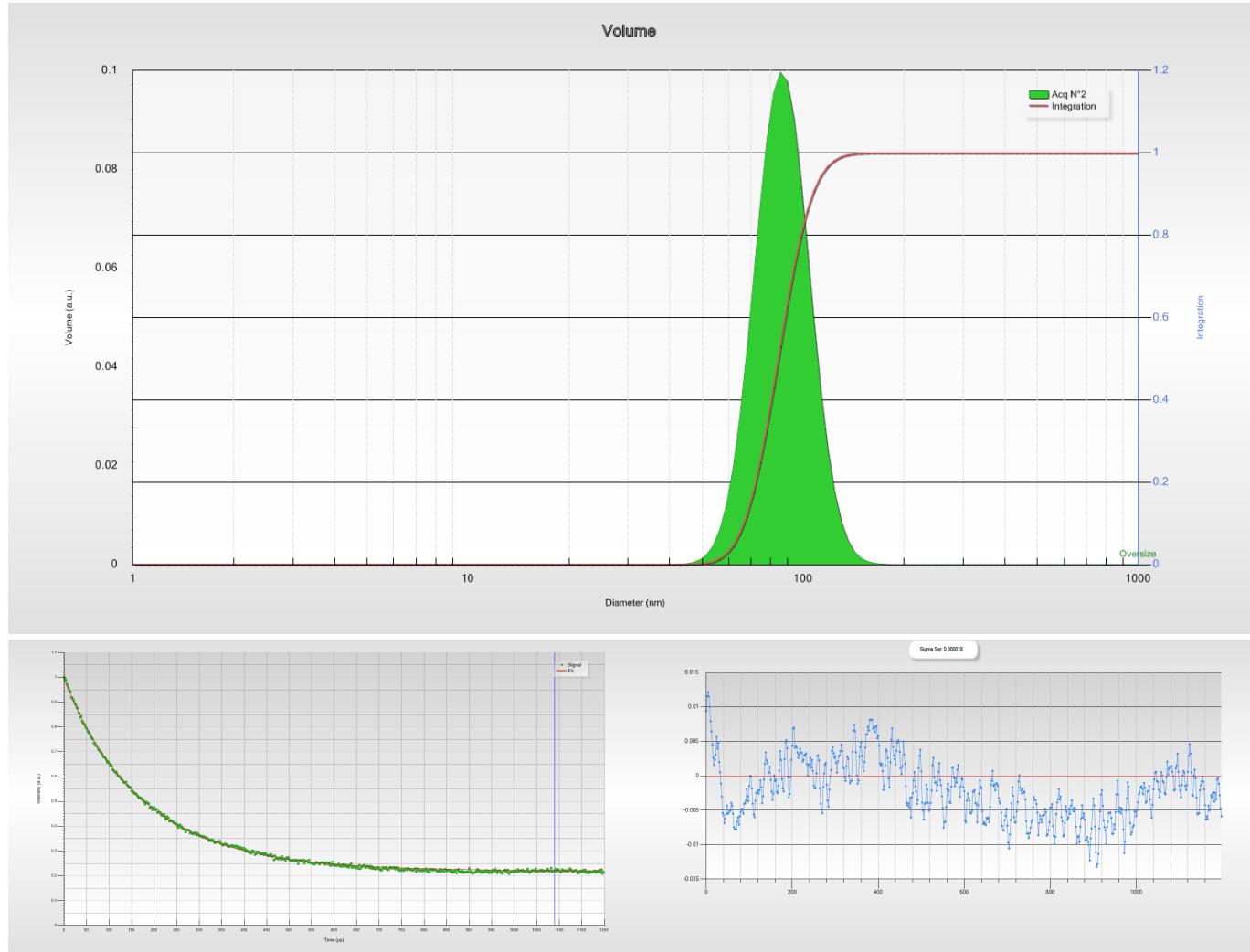
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
89.71	0.77	2895.81	54.78396E-013

**Distribution statistics**

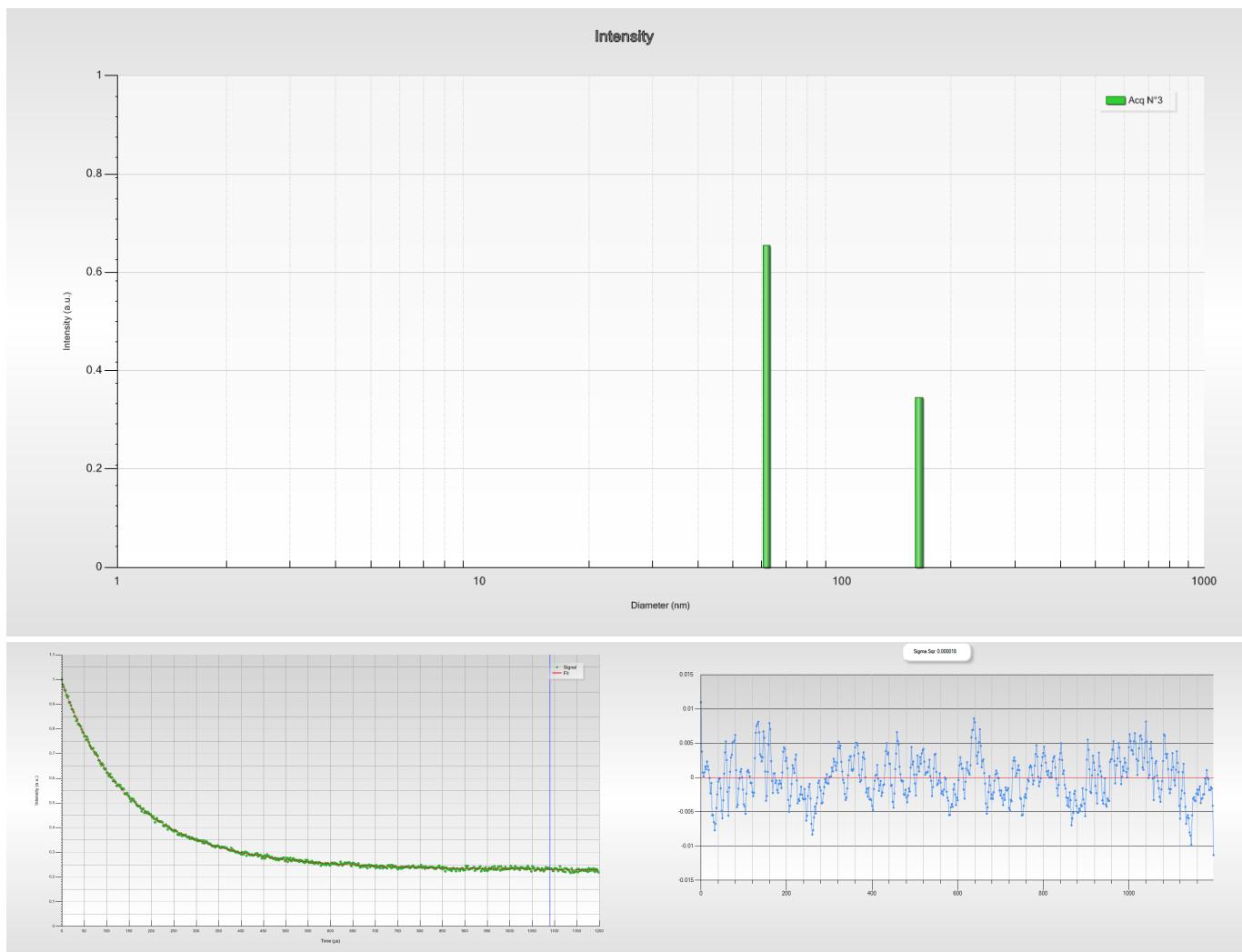
Dn 10%: 61.83 nm	Dn 50%: 77.91 nm	Dn 90%: 98.17 nm
Mean Number: 79.19 nm		
PDI : 0.13282		Std Dev: 18.22%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
89.71	0.77	2895.81	54.78396E-013

**Distribution statistics****D_v 10%:** 67.81 nm**Mean Volume:** 87.73 nm**PDI** : 0.13282**D_v 50%:** 85.45 nm**D_v 90%:** 107.68 nm**Std Dev:** 18.22%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
89.71	0.77	2895.81	54.78396E-013



Dispersion statistics

Di 10%: 61.83 nm

Mean Intensity: 96.8 nm

Di 50%: 61.83 nm

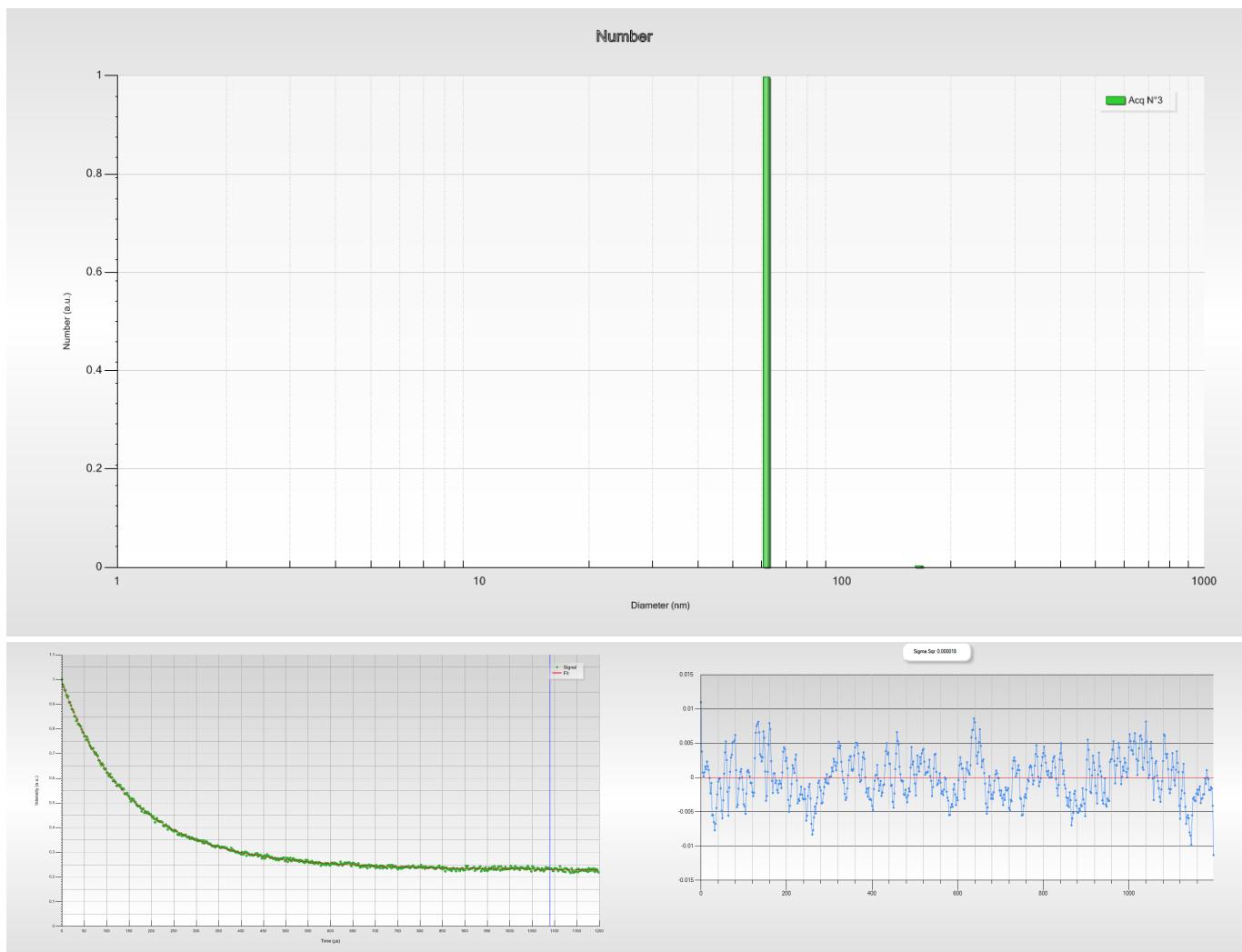
Di 90%: 163.25 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
62.25	0.57	4173.58	78.95737E-013
166.52	0.3	1560.04	29.51346E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
61.83	0.66	163.25	0.34



Dispersion statistics

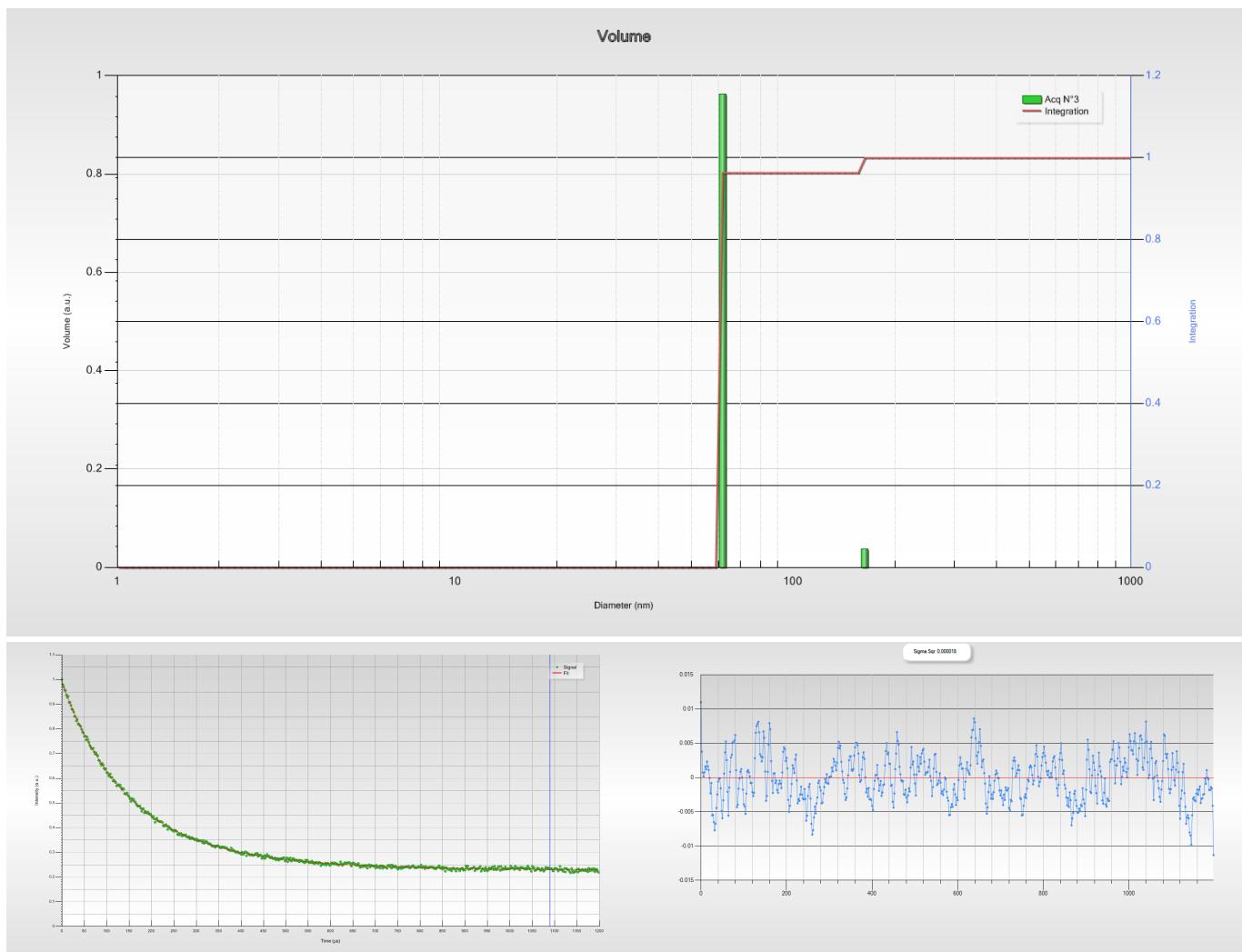
Dn 10%: 61.83 nm Dn 50%: 61.83 nm Dn 90%: 61.83 nm
 Mean Number: 62.03 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
62.25	0.57	4173.58	78.95737E-013
166.52	0.3	1560.04	29.51346E-013

Dispersion data

Size (nm)	Number
61.83	1



Dispersion statistics

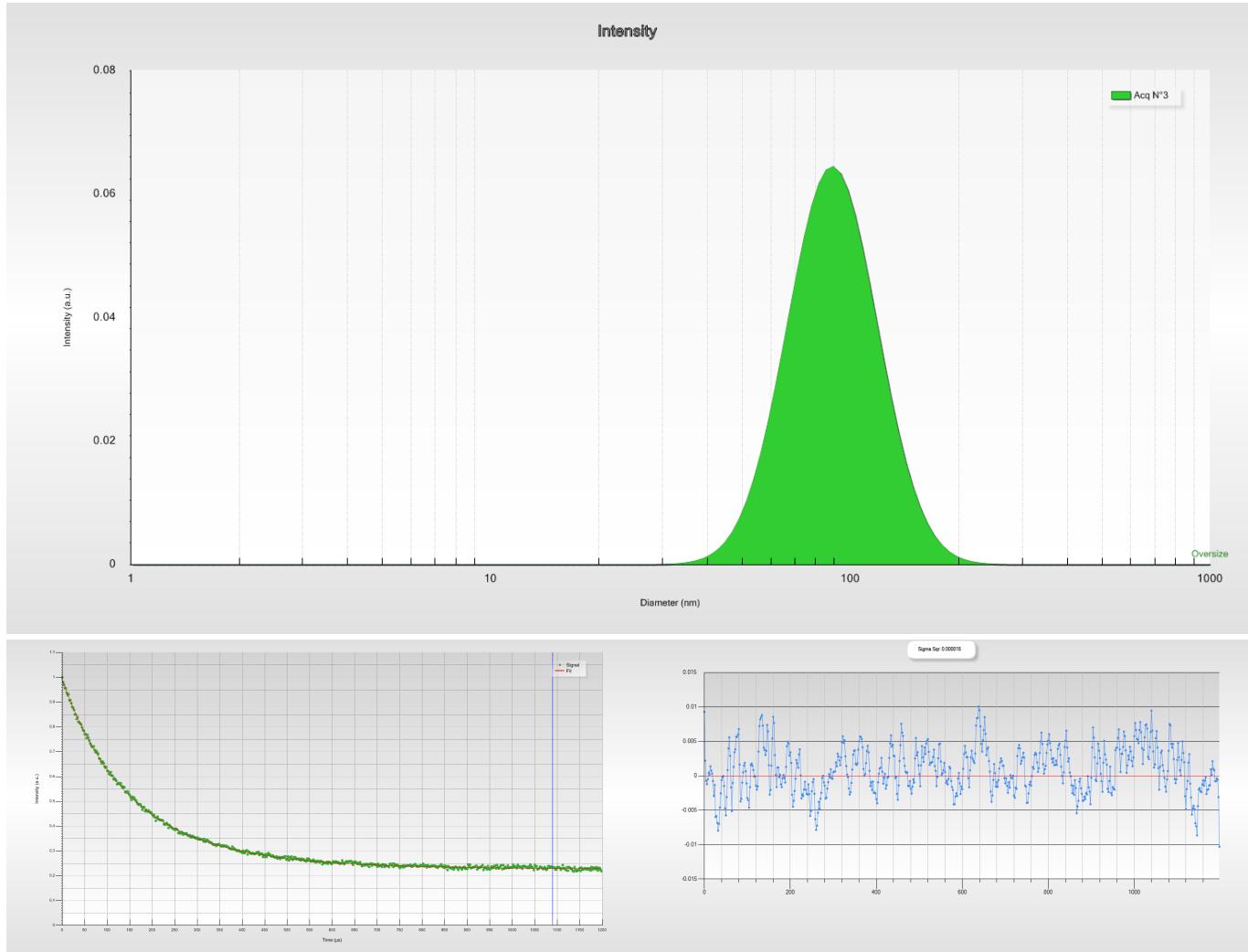
D_v 10%: 61.83 nm D_v 50%: 61.83 nm D_v 90%: 61.83 nm
 Mean Volume: 65.55 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
62.25	0.57	4173.58	78.95737E-013
166.52	0.3	1560.04	29.51346E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
61.83	0.96	163.25	0.04



Distribution statistics

Di 10%: 61.83 nm	Di 50%: 89.5 nm	Di 90%: 129.55 nm
Mean Intensity: 92.57 nm		
PDI : 0.34082		Std Dev: 29.19%

Detected size(s)

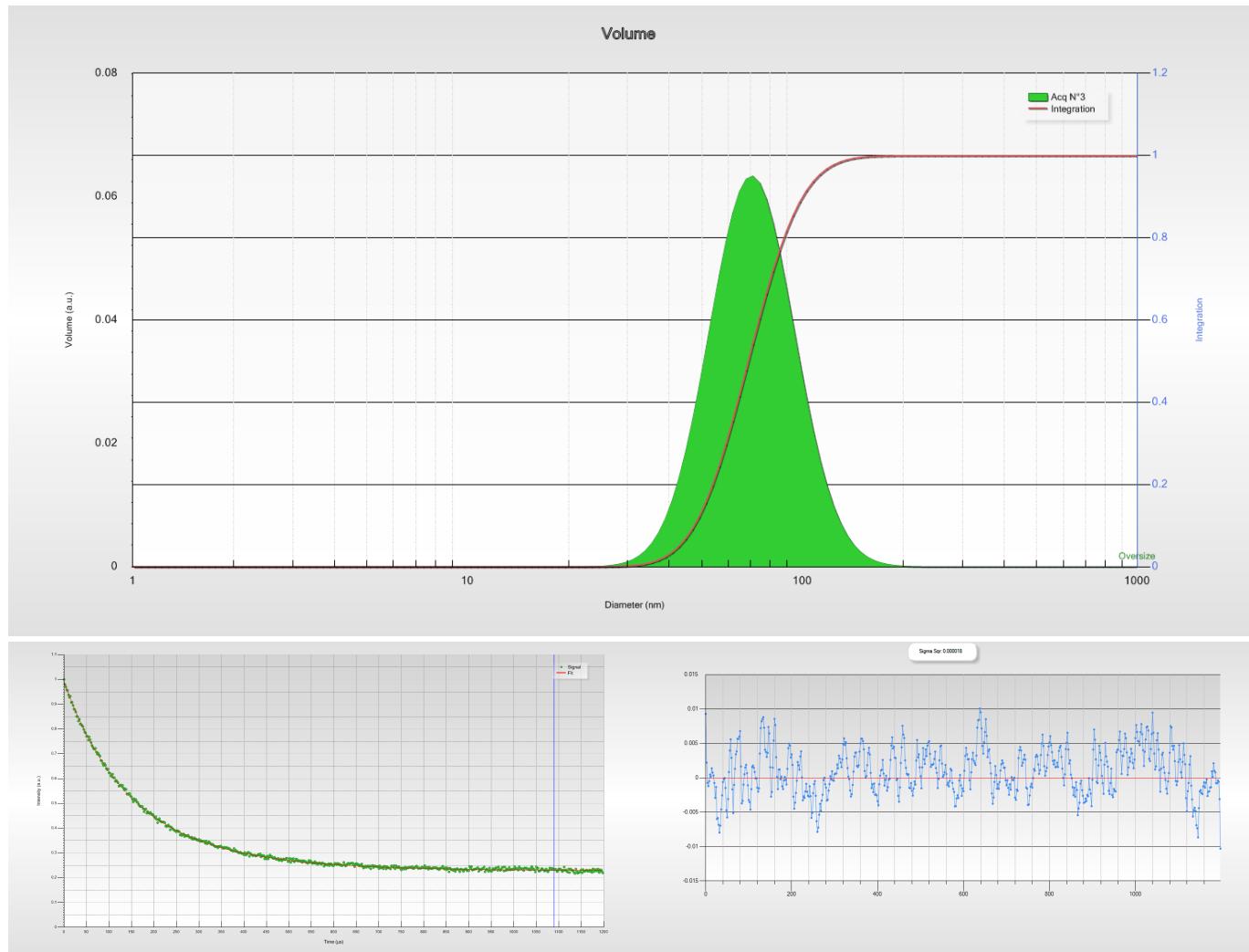
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.59	0.76	3305.63	62.53713E-013

**Distribution statistics**

Dn 10%: 37.18 nm	Dn 50%: 53.82 nm	Dn 90%: 77.91 nm
Mean Number: 57.13 nm		
PDI : 0.34082		Std Dev: 29.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.59	0.76	3305.63	62.53713E-013



Distribution statistics

D_v 10%: 49.06 nm

Mean Volume: 73.62 nm

PDI : 0.34082

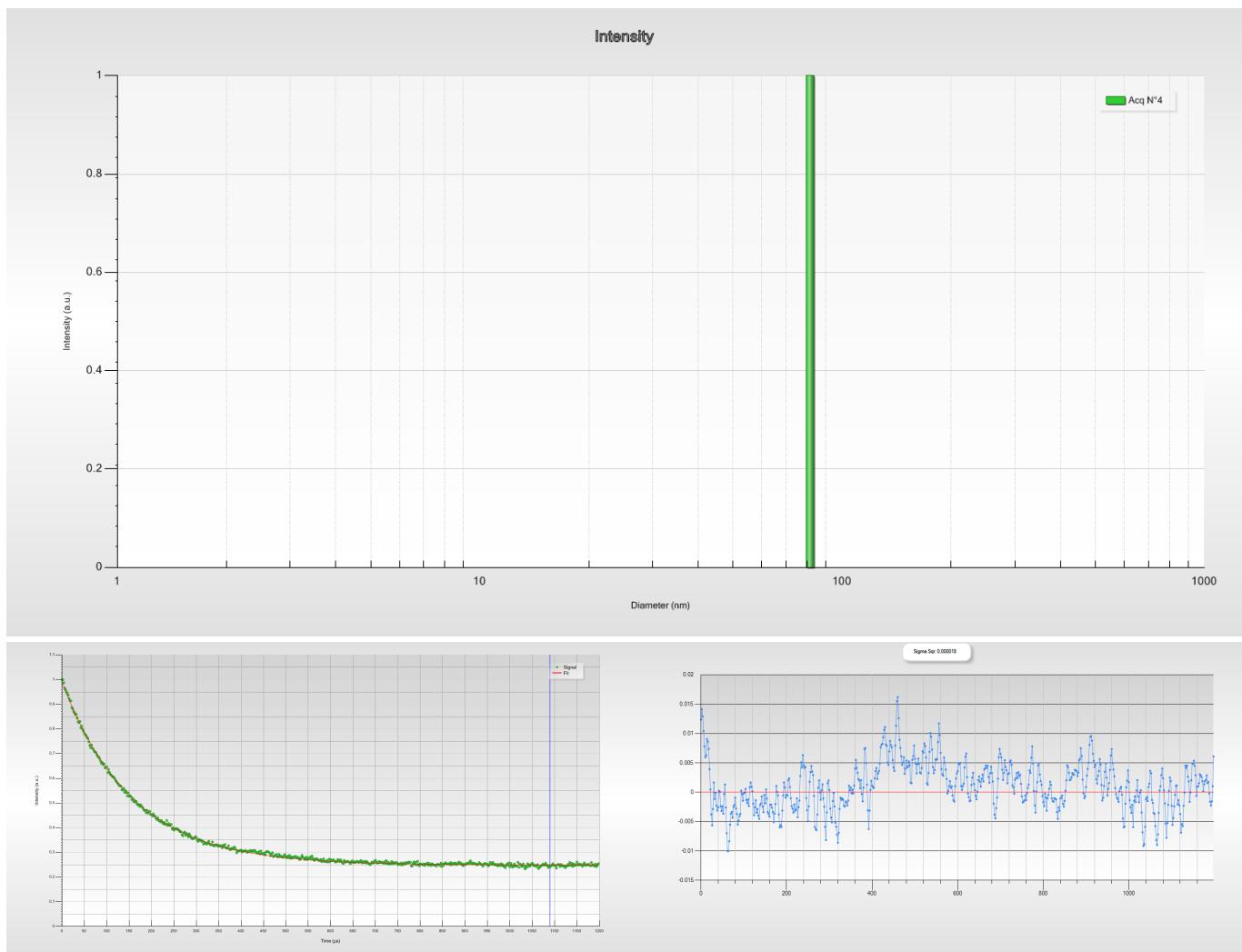
D_v 50%: 71.02 nm

D_v 90%: 102.81 nm

Std Dev: 29.19%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.59	0.76	3305.63	62.53713E-013



Dispersion statistics

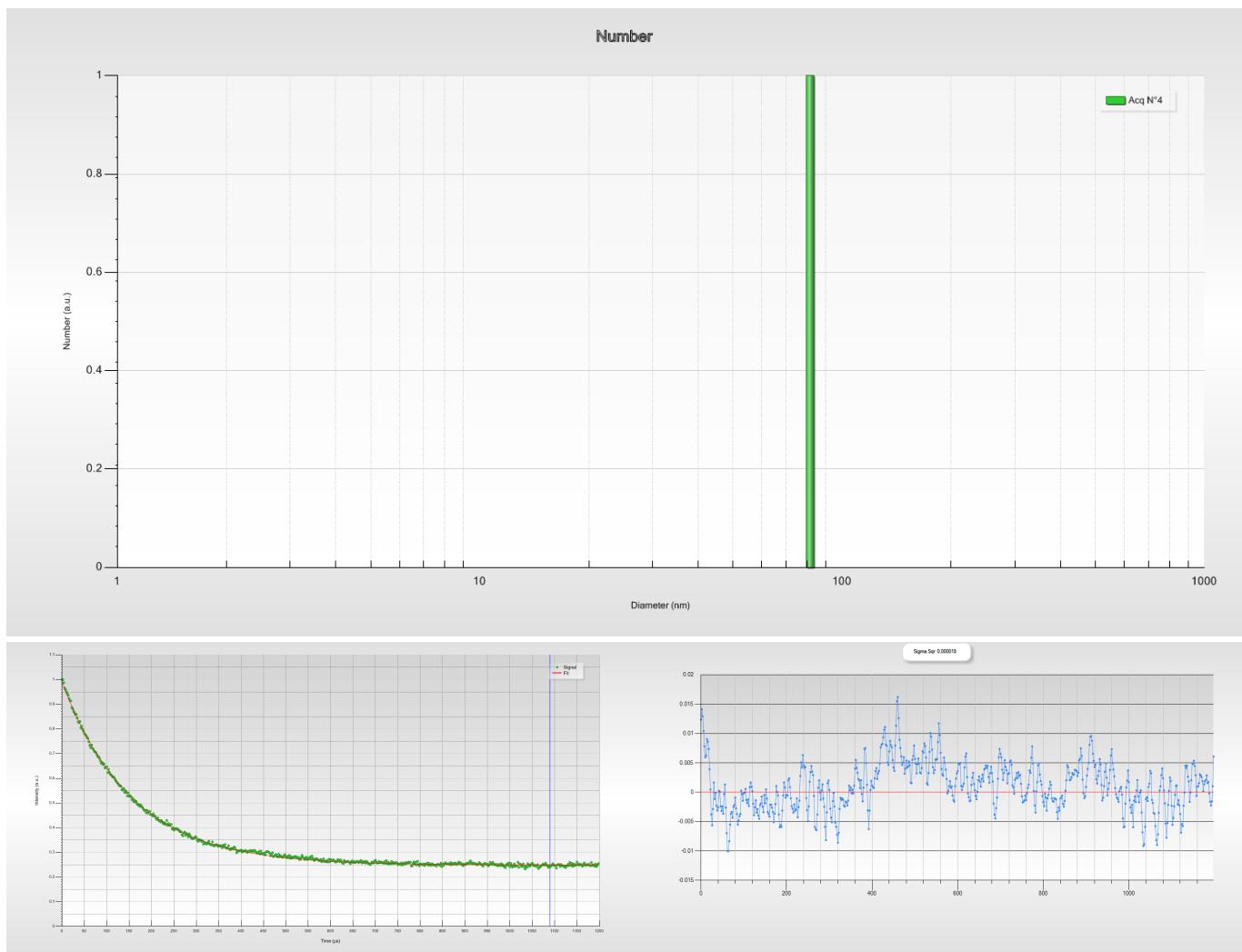
Di 10%: 81.59 nm **Di 50%:** 81.59 nm **Di 90%:** 81.59 nm
Mean Intensity: 81.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.15	0.86	3201.32	60.56372E-013

Dispersion datas

Size (nm)	Intensity
81.59	1



Dispersion statistics

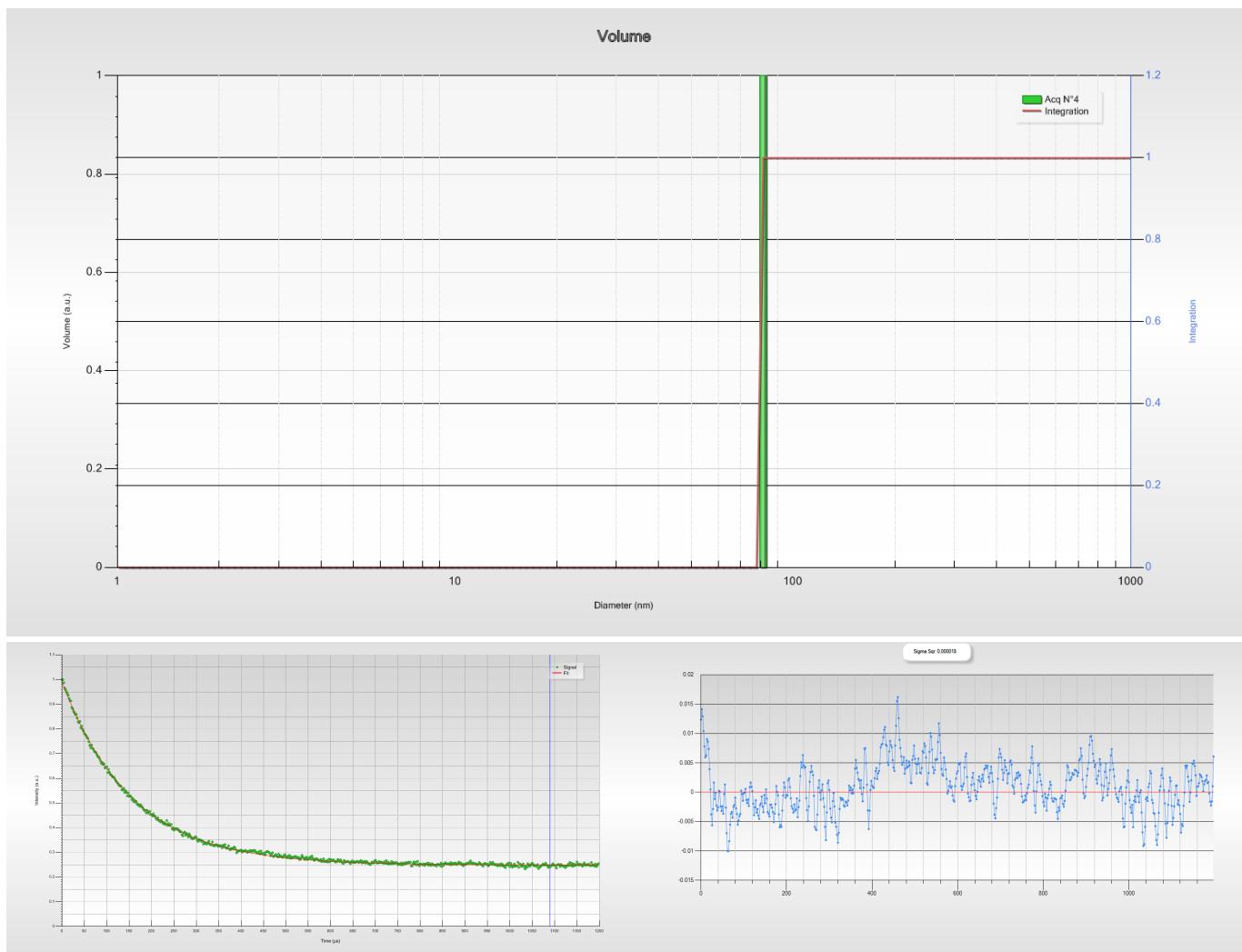
Dn 10%: 81.59 nm Dn 50%: 81.59 nm Dn 90%: 81.59 nm
Mean Number: 81.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.15	0.86	3201.32	60.56372E-013

Dispersion datas

Size (nm)	Number
81.59	1



Dispersion statistics

D_v 10%: 81.59 nm **D_v 50%:** 81.59 nm **D_v 90%:** 81.59 nm
Mean Volume: 81.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.15	0.86	3201.32	60.56372E-013

Dispersion datas

Size (nm)	Volume
81.59	1

**Distribution statistics**

Di 10%: 61.83 nm	Di 50%: 81.59 nm	Di 90%: 112.77 nm
Mean Intensity: 85.09 nm		
PDI : 0.20238		Std Dev: 22.49%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.07	0.75	3370.59	63.76617E-013

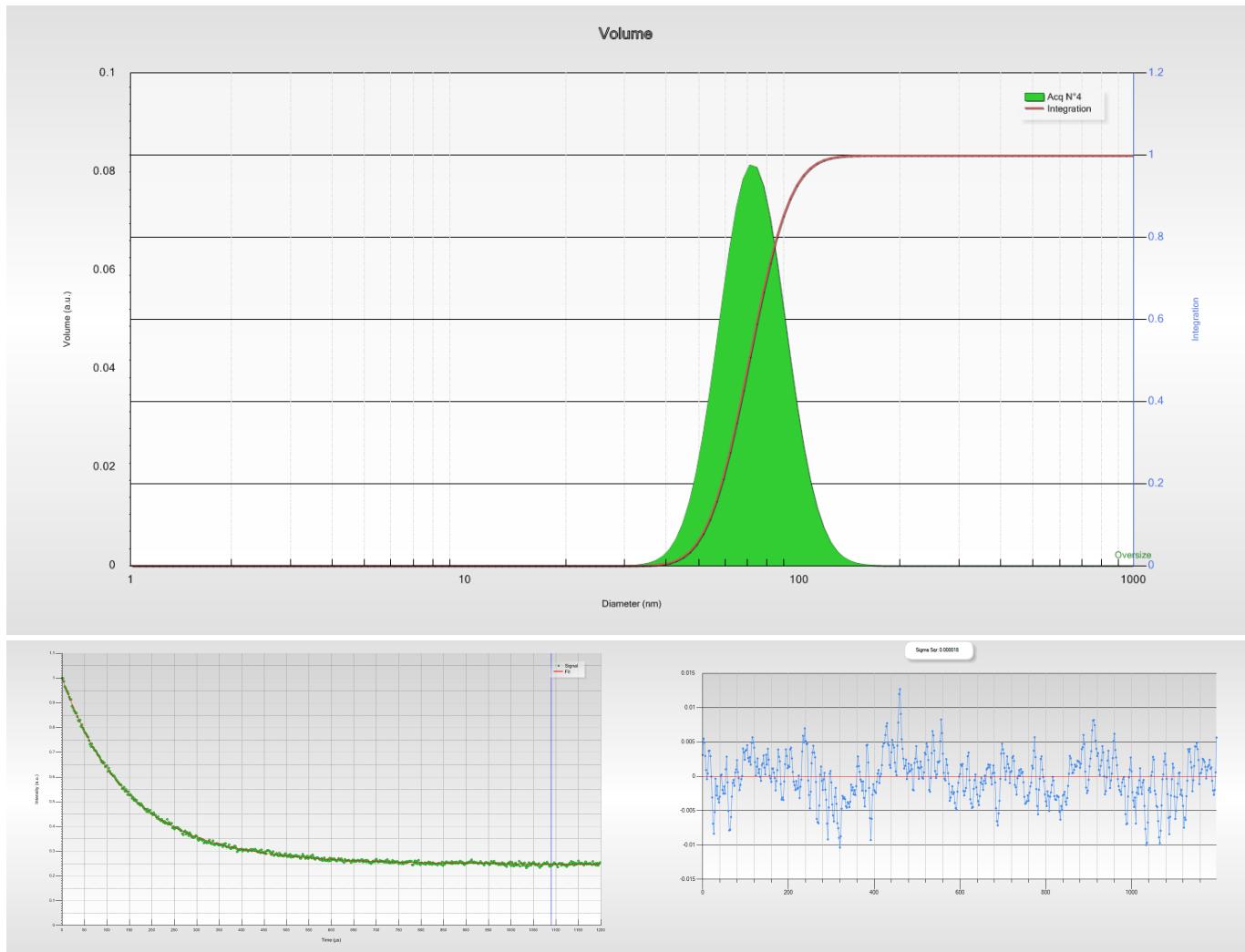


Distribution statistics

Dn 10%: 46.85 nm	Dn 50%: 61.83 nm	Dn 90%: 81.59 nm
Mean Number: 63.64 nm		
PDI : 0.20238		Std Dev: 22.49%

Detected size(s)

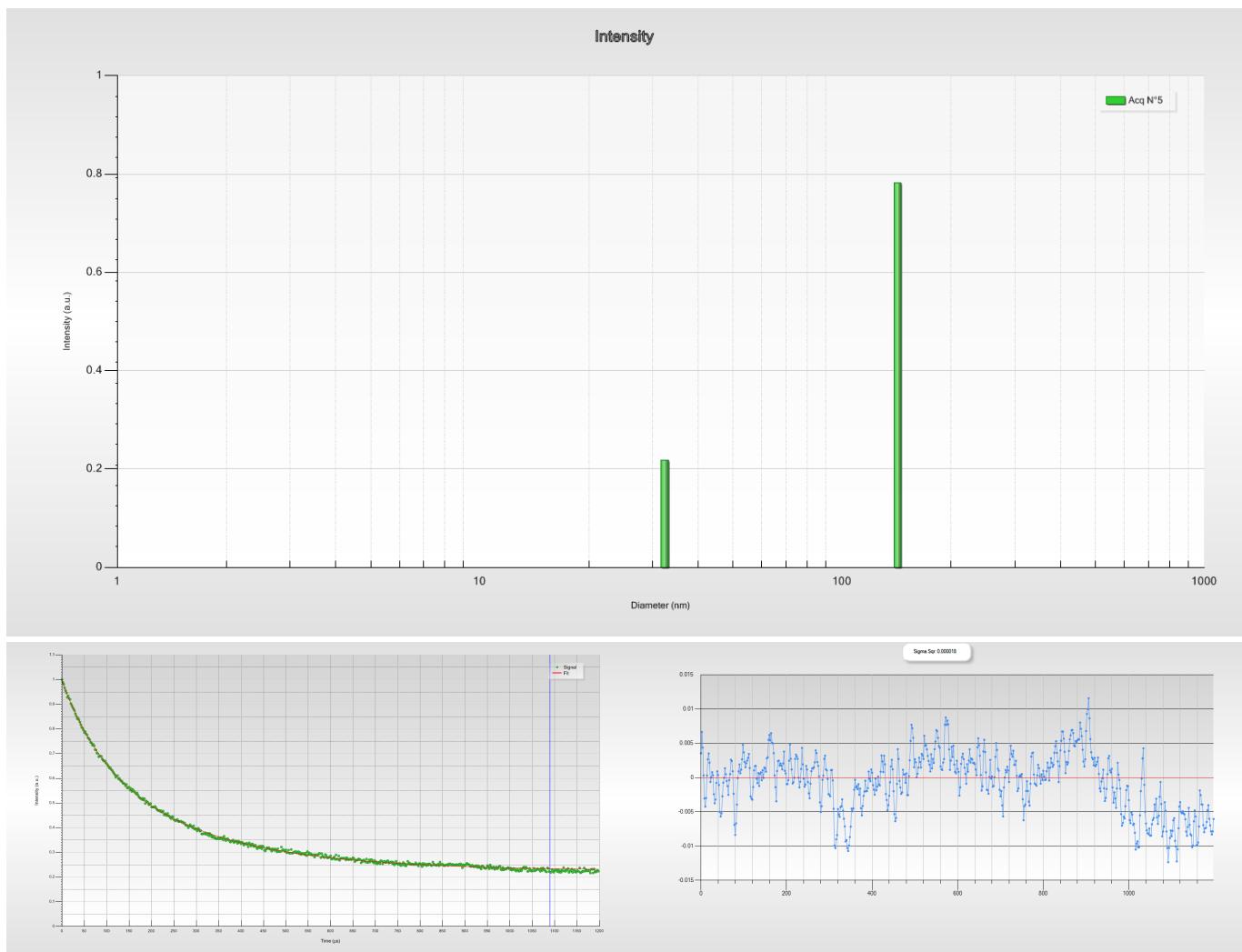
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.07	0.75	3370.59	63.76617E-013

**Distribution statistics**

D_v 10%: 53.82 nm	D_v 50%: 71.02 nm	D_v 90%: 98.17 nm
Mean Volume: 74.18 nm		
PDI : 0.20238		Std Dev: 22.49%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.07	0.75	3370.59	63.76617E-013



Dispersion statistics

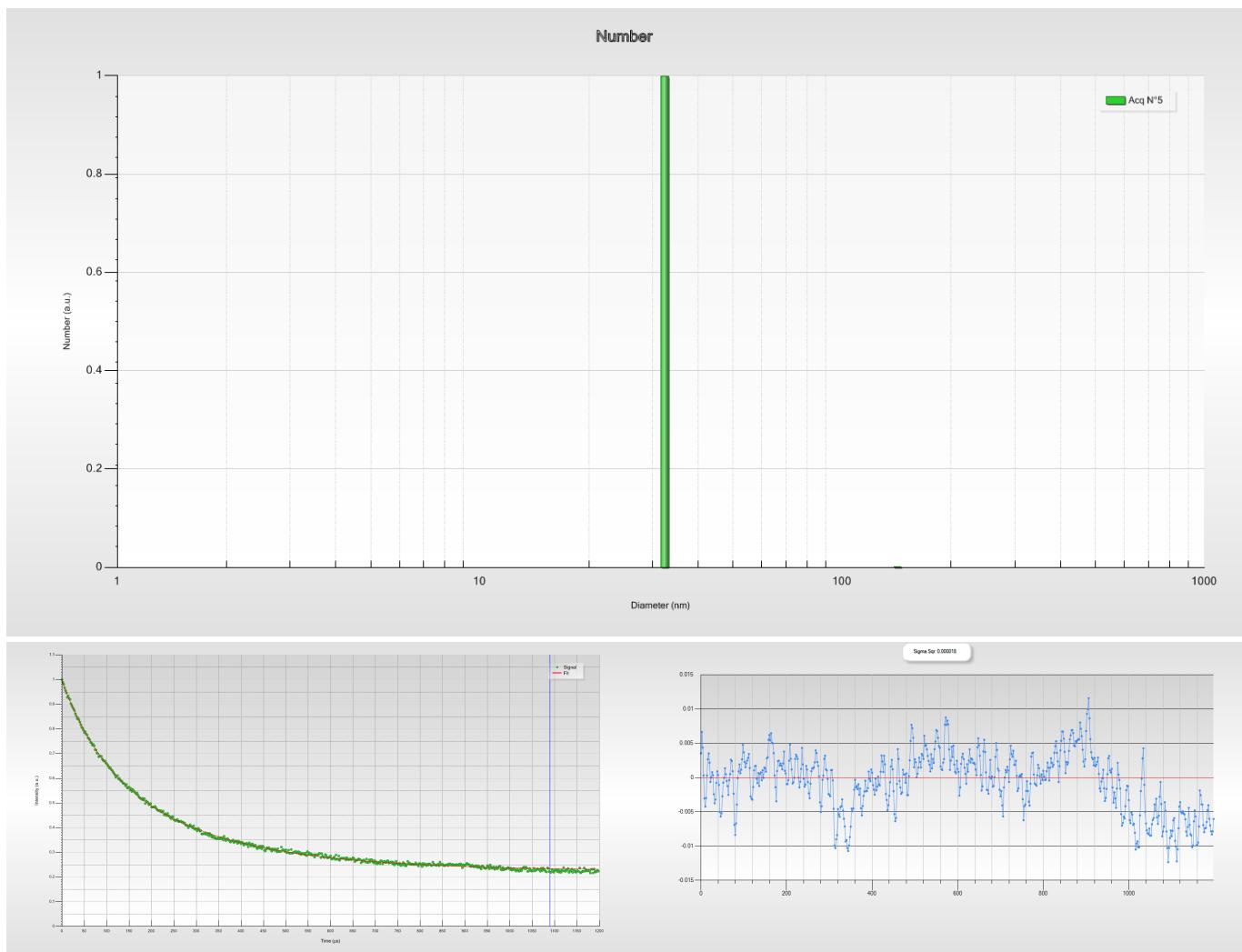
Di 10%: 32.36 nm **Di 50%:** 142.11 nm **Di 90%:** 142.11 nm
Mean Intensity: 118.22 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.87	0.19	8150.95	15.42028E-012
141.64	0.69	1834.19	34.69989E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
32.36	0.22	142.11	0.78



Dispersion statistics

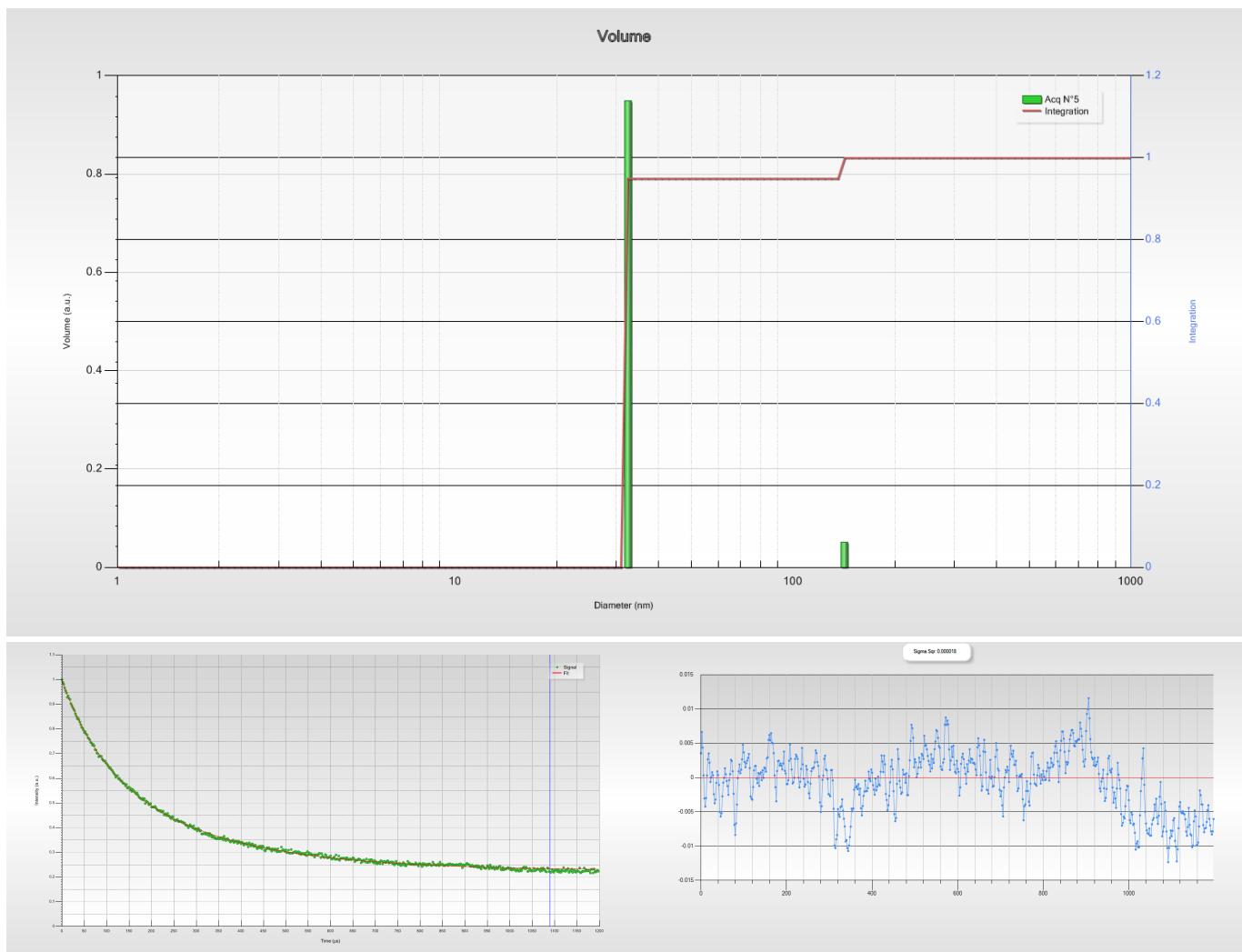
Dn 10%: 32.36 nm **Dn 50%:** 32.36 nm **Dn 90%:** 32.36 nm
Mean Number: 32.43 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.87	0.19	8150.95	15.42028E-012
141.64	0.69	1834.19	34.69989E-013

Dispersion data

Size (nm)	Number
32.36	1



Dispersion statistics

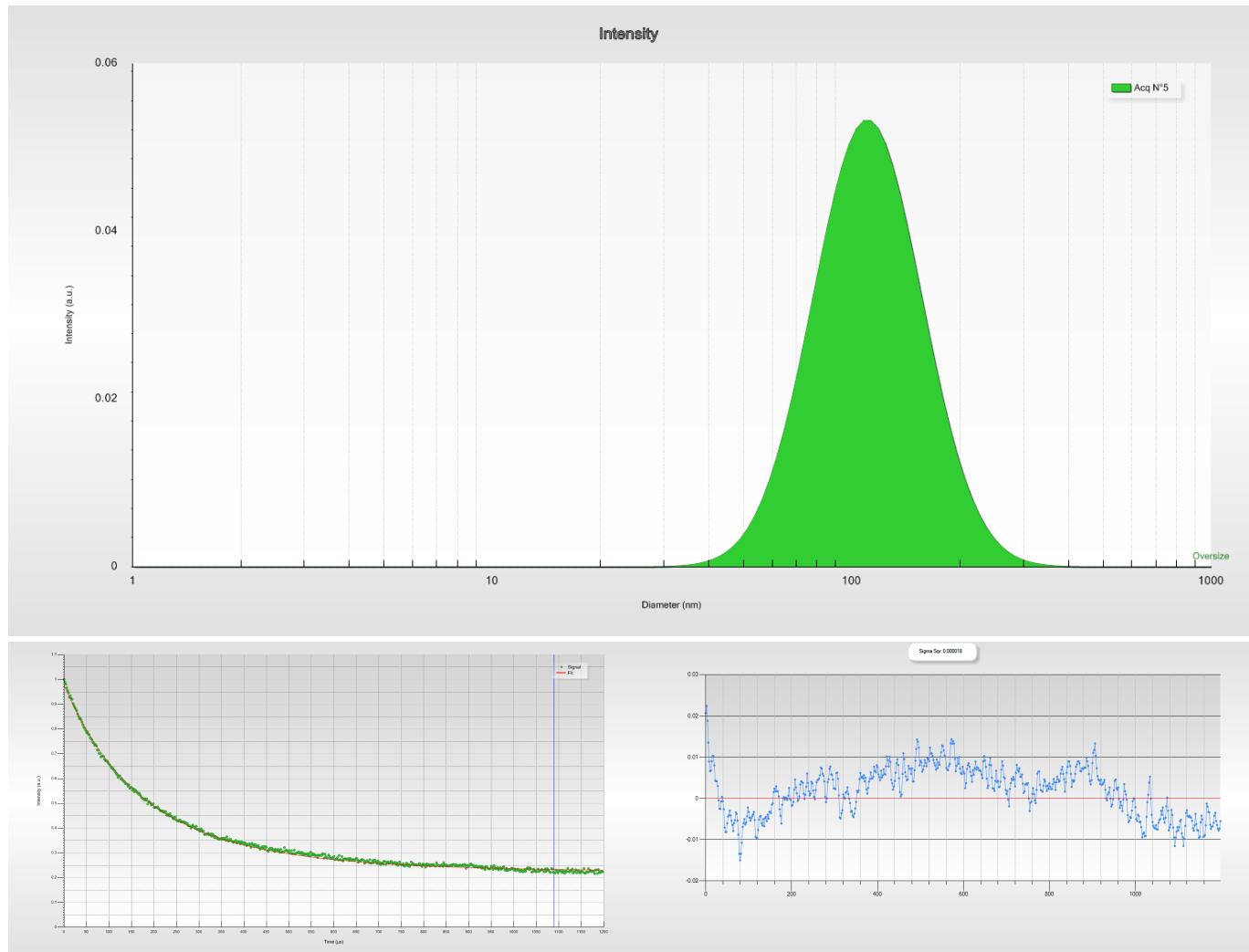
Dv 10%: 32.36 nm Dv 50%: 32.36 nm Dv 90%: 32.36 nm
 Mean Volume: 37.95 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
31.87	0.19	8150.95	15.42028E-012
141.64	0.69	1834.19	34.69989E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
32.36	0.95	142.11	0.05

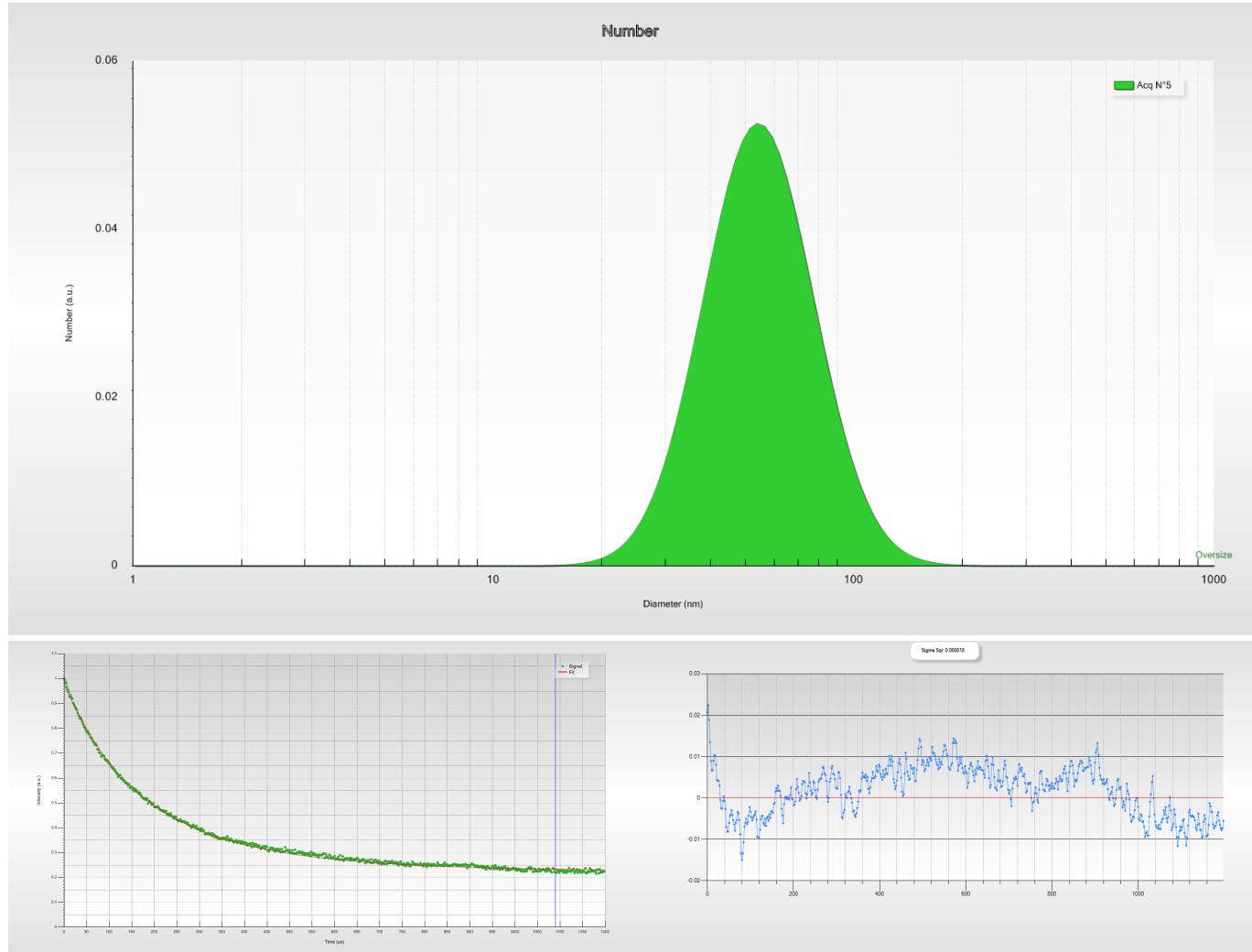


Distribution statistics

Di 10%: 71.02 nm **Di 50%:** 112.77 nm **Di 90%:** 170.97 nm
Mean Intensity: 117.18 nm **PDI :** 0.50855 **Std Dev:** 35.66%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.22	0.75	2817.1	53.29488E-013

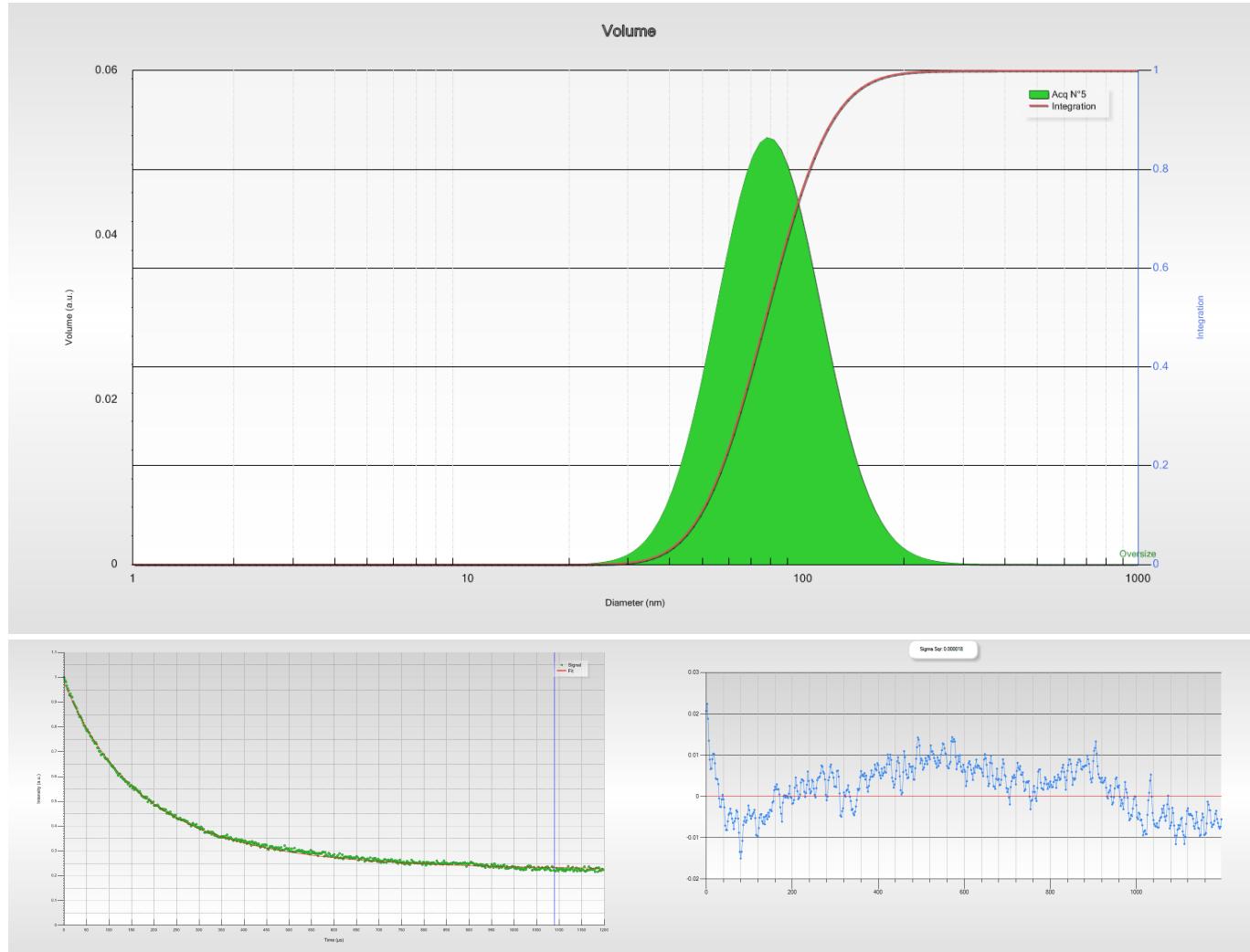


Distribution statistics

Dn 10%: 35.5 nm	Dn 50%: 53.82 nm	Dn 90%: 85.45 nm
Mean Number: 57.88 nm		
PDI : 0.50855		Std Dev: 35.66%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.22	0.75	2817.1	53.29488E-013



Distribution statistics

D_v 10%: 51.39 nm **D_v 50%:** 77.91 nm **D_v 90%:** 123.7 nm
Mean Volume: 84.54 nm **Std Dev:** 35.66%
PDI : 0.50855

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
92.22	0.75	2817.1	53.29488E-013