

Sample

Name : GNP_11.4.16_0.8_1k_1
Mesured On : 11.04.2016 19:21
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	: 300
Laser power	: 38.1 %	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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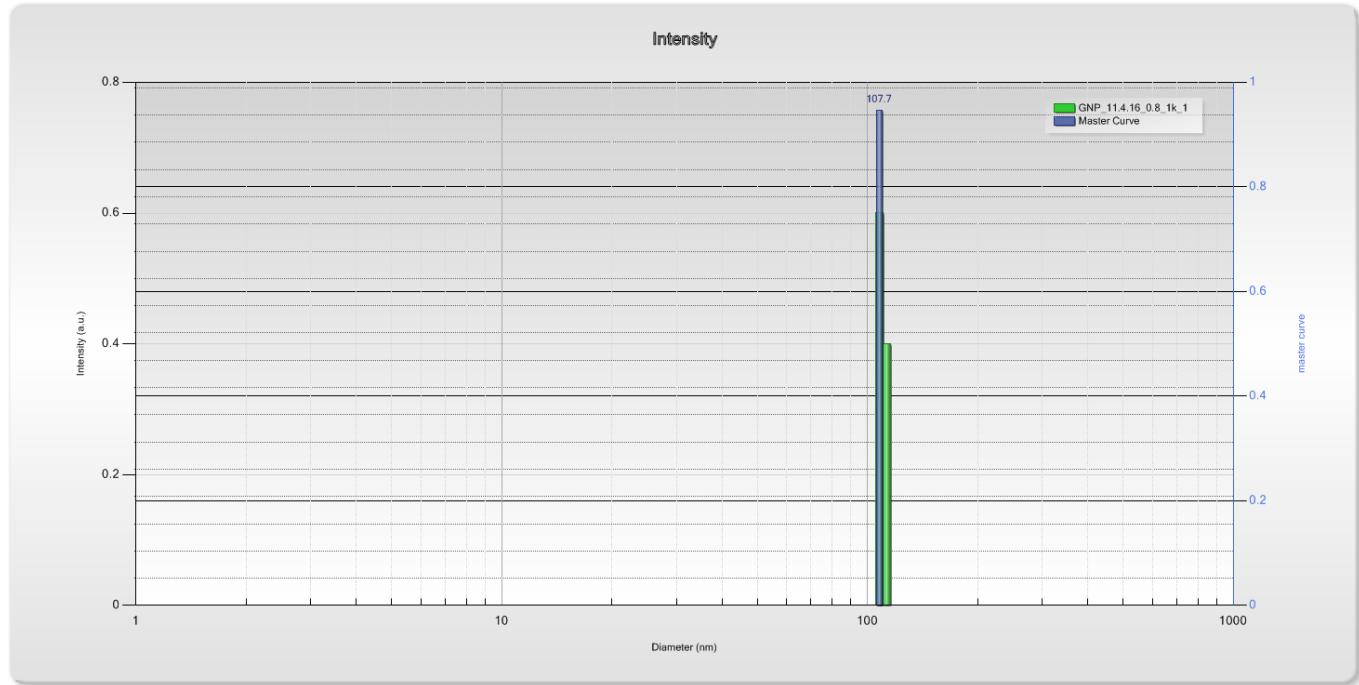
Algorithm

Pade Laplace	Cumulants
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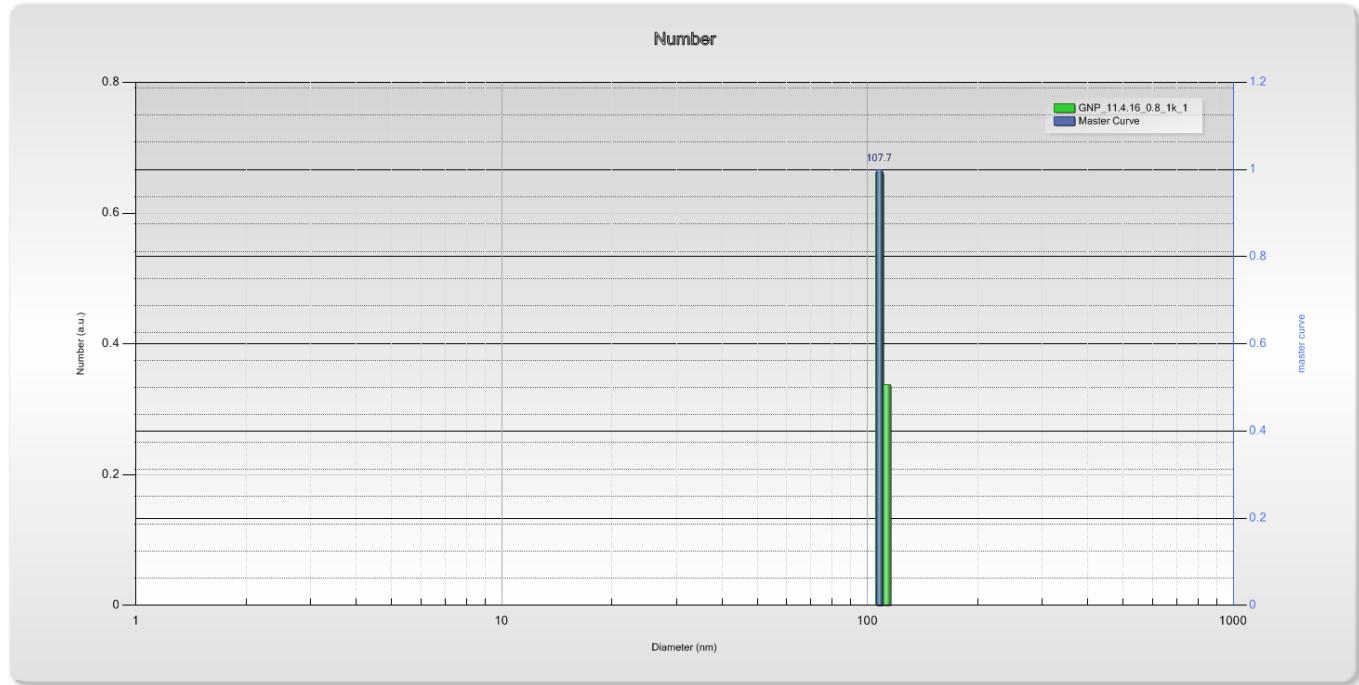
Measurement

Average count rate : 2855 kcps
Number of rejected : 0

Duration : 00:05:08
Number of modified : 0

**Dispersion statistics*****Di 10%:*** 107.68 nm***Di 50%:*** 107.68 nm***Di 90%:*** 112.77 nm**Dispersion data**

Size (nm)	Intensity	Size (nm)	Intensity
107.68	0.6	112.77	0.4



Dispersion statistics

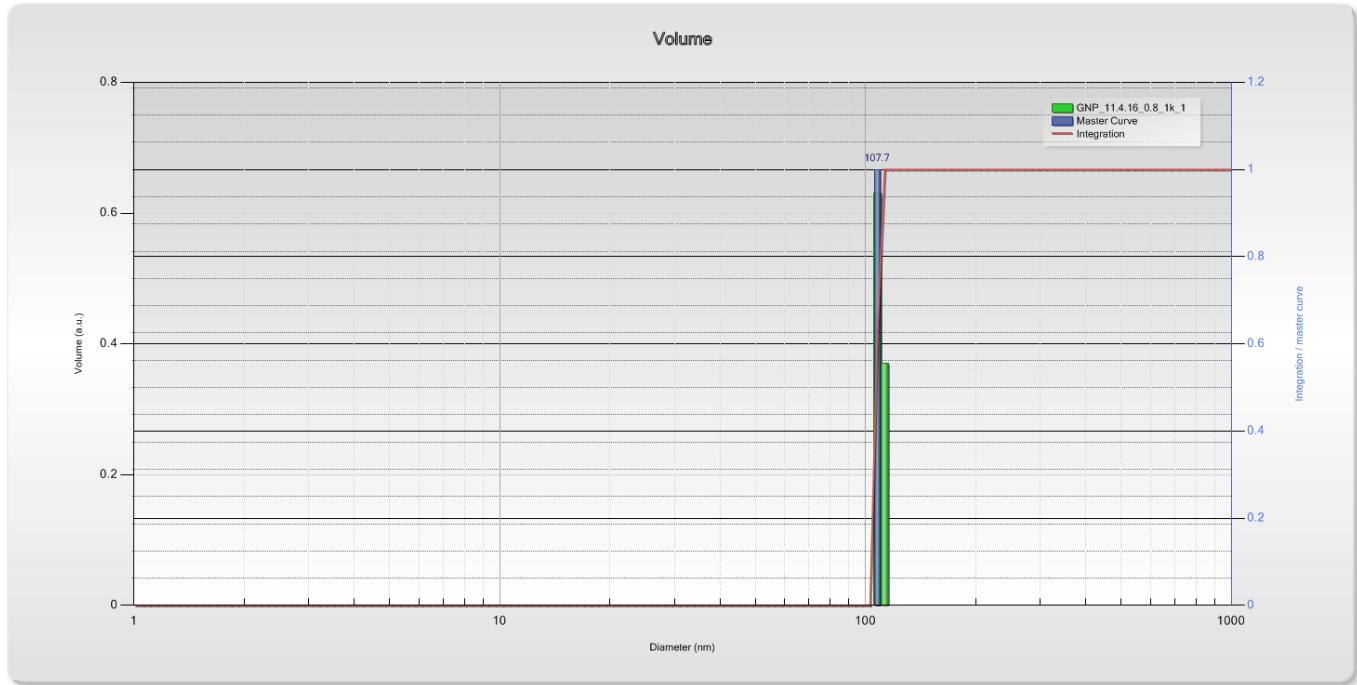
Dn 10%: 107.68 nm

Dn 50%: 107.68 nm

Dn 90%: 112.77 nm

Dispersion data

Size (nm)	Number	Size (nm)	Number
107.68	0.66	112.77	0.34



Dispersion statistics

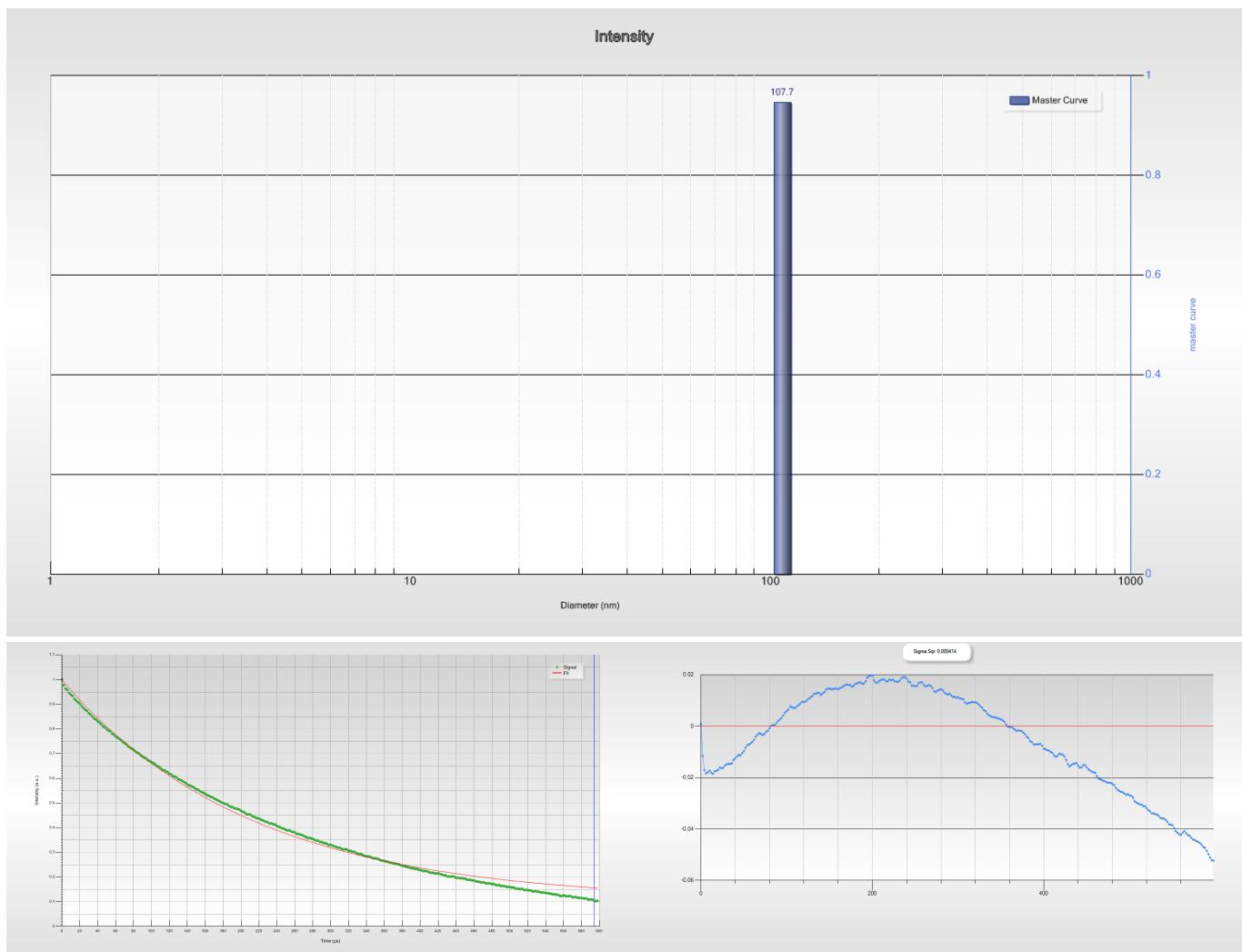
D_v 10%: 107.68 nm

D_v 50%: 107.68 nm

D_v 90%: 112.77 nm

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
107.68	0.63	112.77	0.37



Dispersion statistics

Di 10%: 107.68 nm
Mean Intensity: 107.68 nm

Di 50%: 107.68 nm

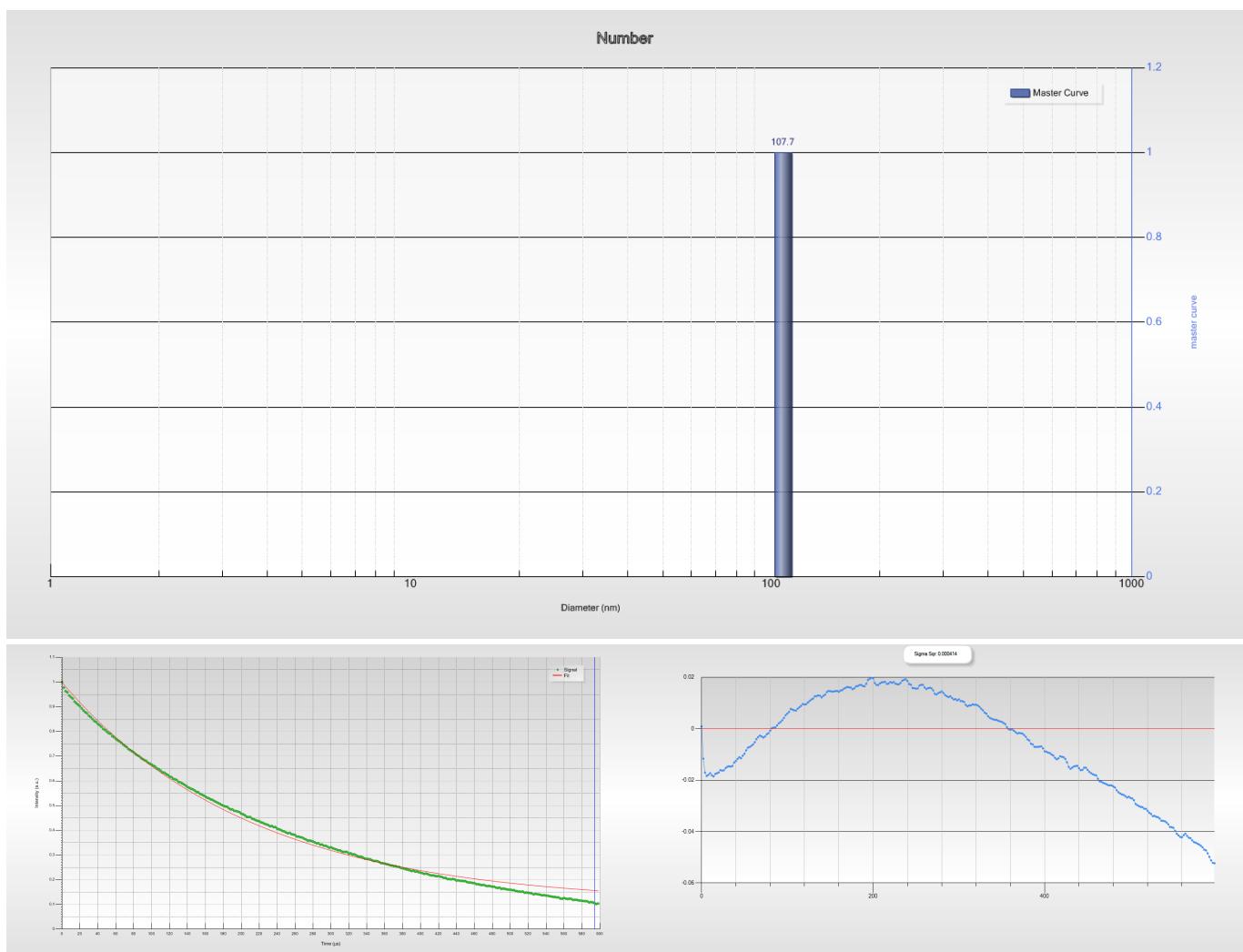
Di 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.41	0.95	2374.44	44.92062E-013

Dispersion data

Size (nm)	Intensity
107.68	1



Dispersion statistics

Dn 10%: 107.68 nm

Mean Number: 107.68 nm

Dn 50%: 107.68 nm

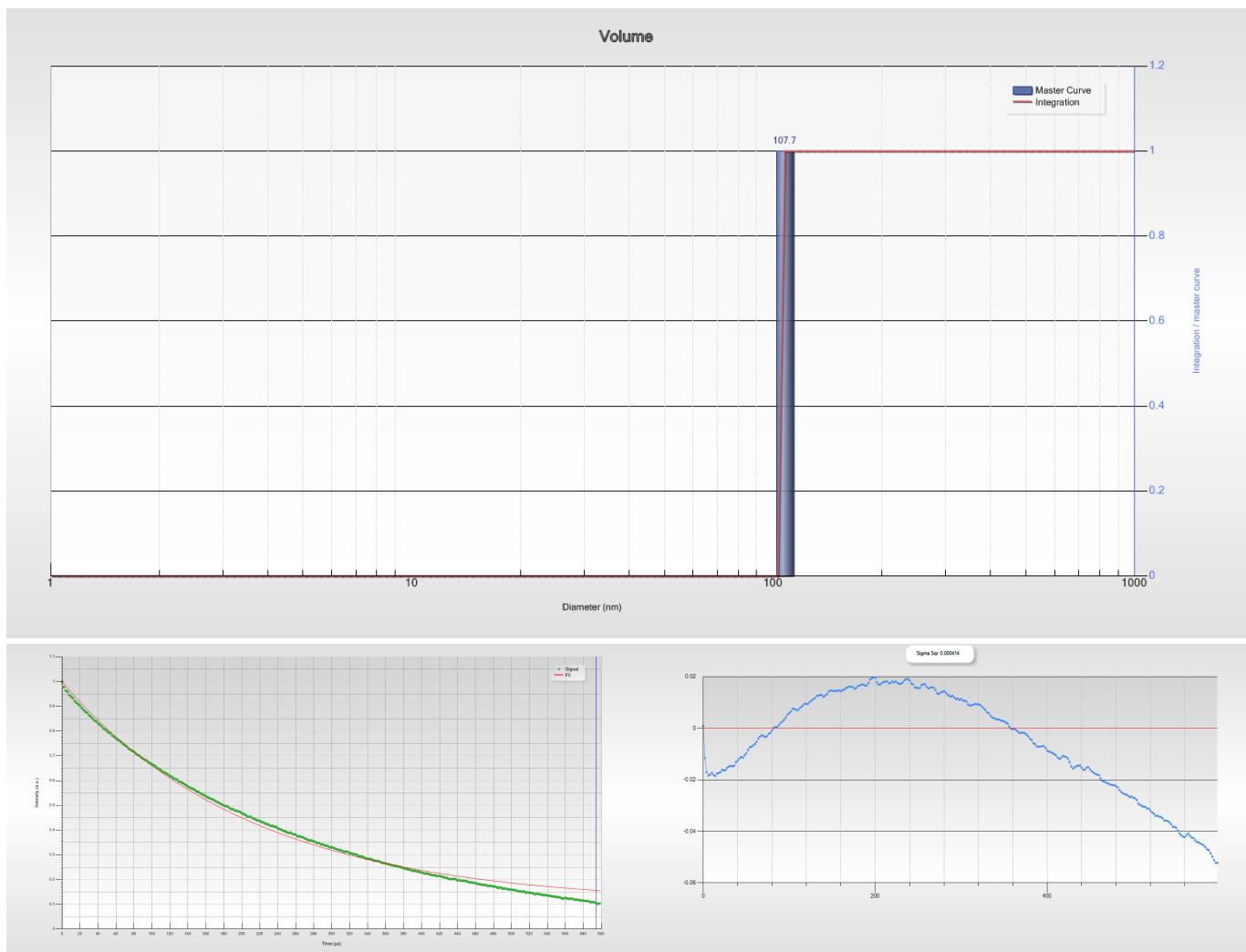
Dn 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.41	0.95	2374.44	44.92062E-013

Dispersion datas

Size (nm)	Number
107.68	1



Dispersion statistics

D_v 10%: 107.68 nm

Mean Volume: 107.68 nm

D_v 50%: 107.68 nm

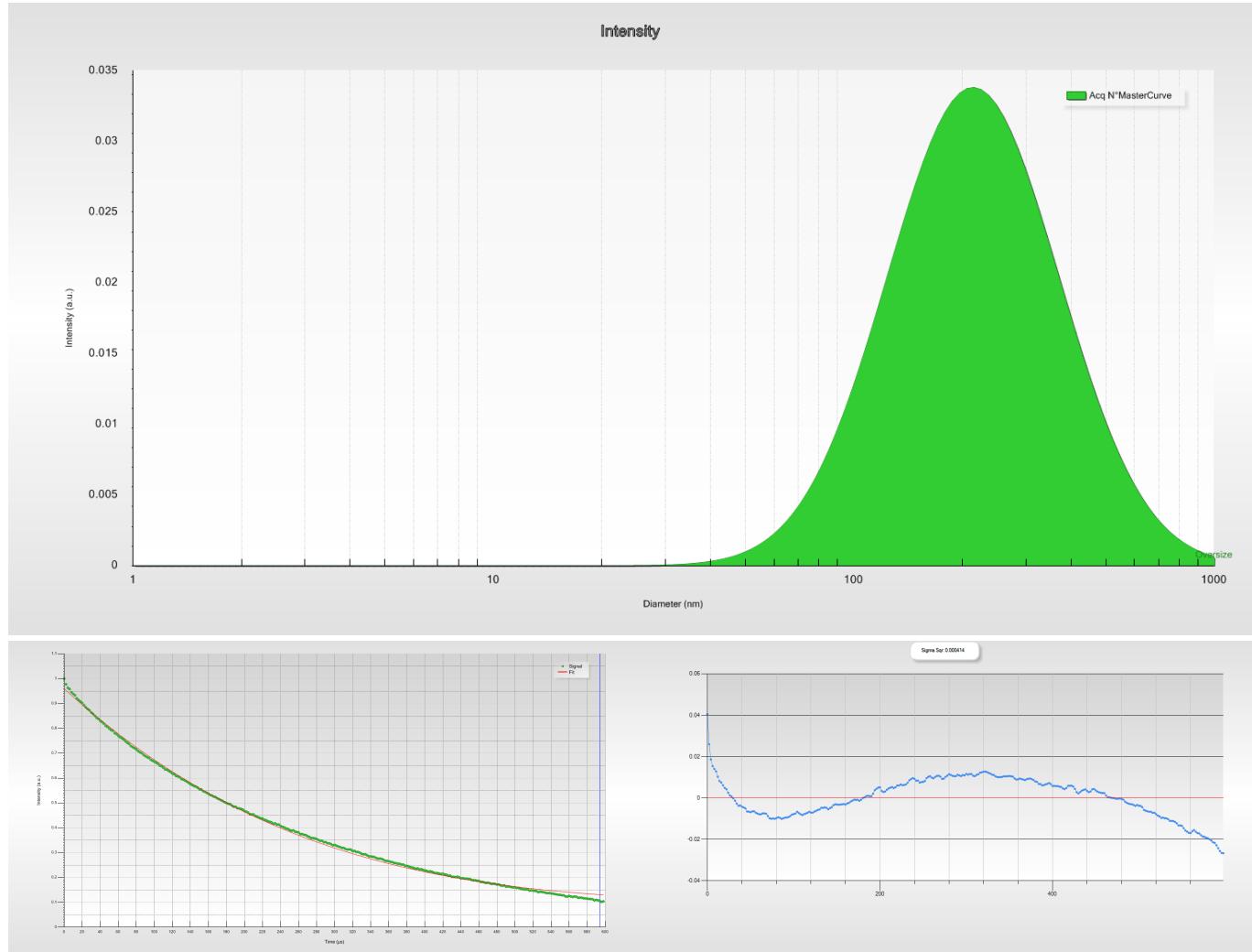
D_v 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.41	0.95	2374.44	44.92062E-013

Dispersion datas

Size (nm)	Volume
107.68	1

**Distribution statistics**

Di 10%: 107.68 nm
Mean Intensity: 246.27 nm
PDI : 1.39165

Di 50%: 215.44 nm

Di 90%: 431.06 nm

Std Dev: 58.98%

Detected size(s)

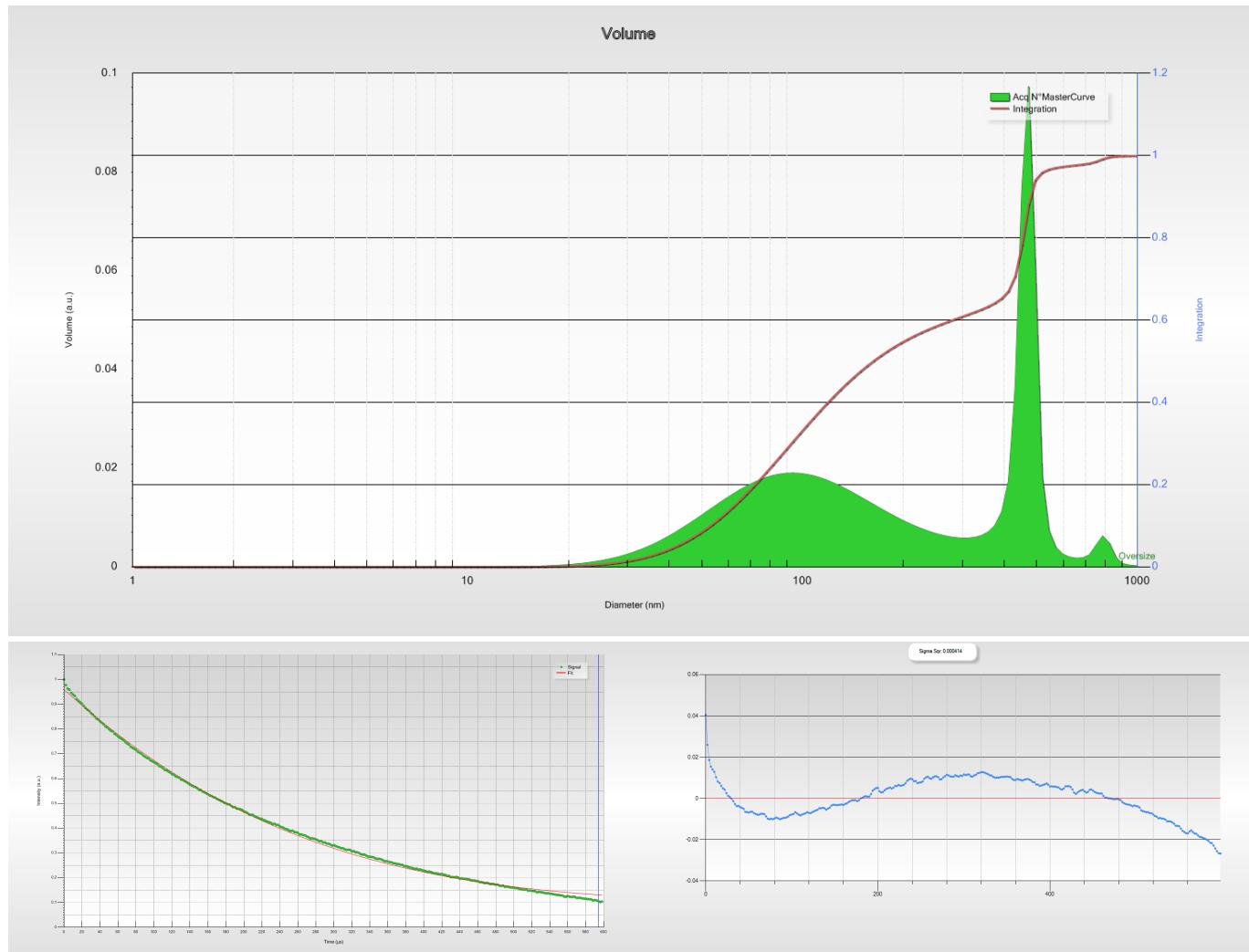
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
136.68	0.86	1900.74	35.95885E-013

**Distribution statistics**

Dn 10%: 17.74 nm	Dn 50%: 35.5 nm	Dn 90%: 74.39 nm
Mean Number: 43.02 nm		
PDI : 1.39165		Std Dev: 58.98%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
136.68	0.86	1900.74	35.95885E-013

**Distribution statistics**

D_v 10%: 53.82 nm
Mean Volume: 254.69 nm
PDI : 1.39165

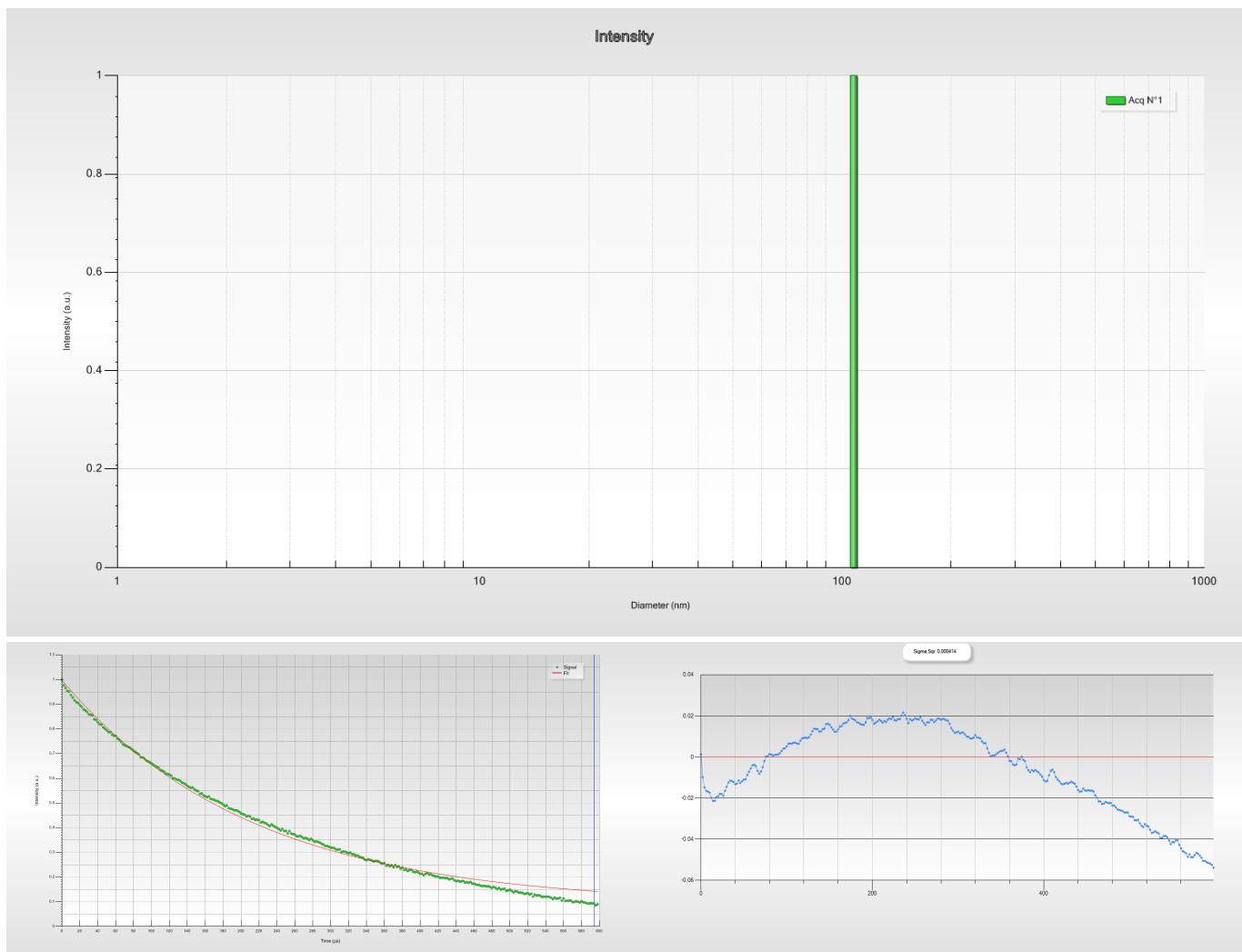
D_v 50%: 163.25 nm

D_v 90%: 495.2 nm

Std Dev: 58.98%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
136.68	0.86	1900.74	35.95885E-013



Dispersion statistics

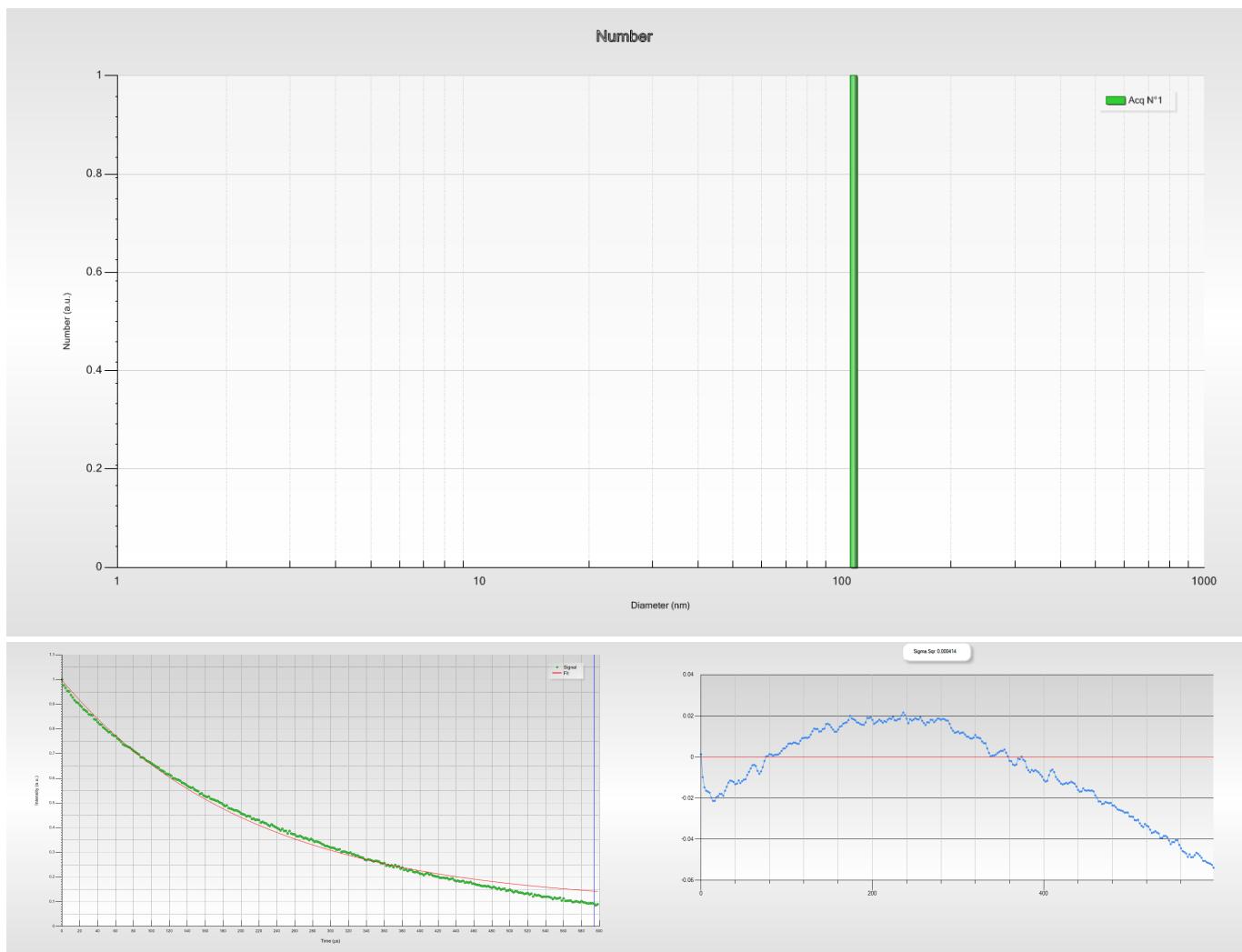
Di 10%: 107.68 nm **Di 50%:** 107.68 nm **Di 90%:** 107.68 nm
Mean Intensity: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.96	0.95	2362.52	44.69506E-013

Dispersion data

Size (nm)	Intensity
107.68	1



Dispersion statistics

Dn 10%: 107.68 nm
Mean Number: 107.68 nm

Dn 50%: 107.68 nm

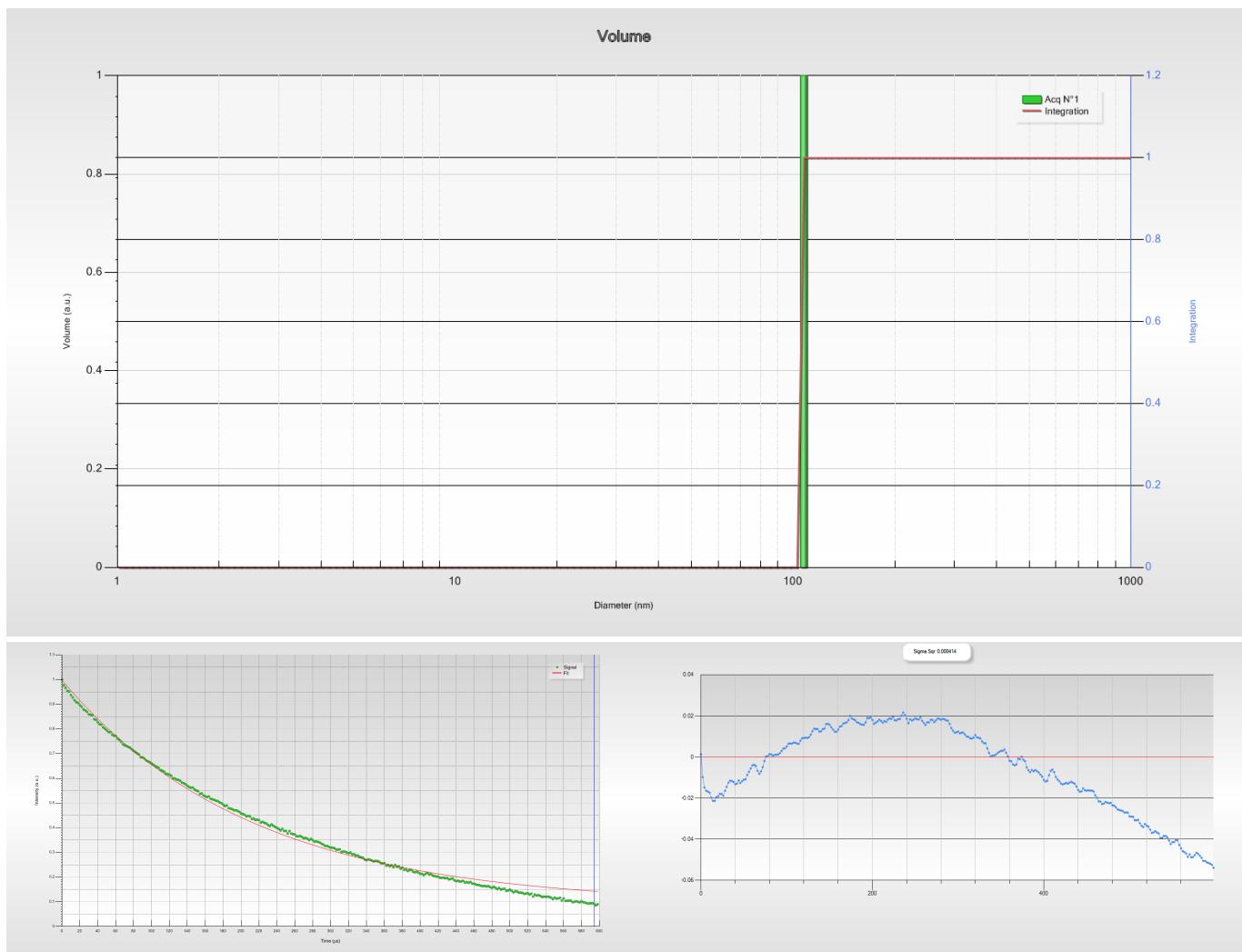
Dn 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.96	0.95	2362.52	44.69506E-013

Dispersion datas

Size (nm)	Number
107.68	1



Dispersion statistics

D_v 10%: 107.68 nm
Mean Volume: 107.68 nm

D_v 50%: 107.68 nm

D_v 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.96	0.95	2362.52	44.69506E-013

Dispersion datas

Size (nm)	Volume
107.68	1



Distribution statistics

Di 10%: 107.68 nm **Di 50%:** 215.44 nm **Di 90%:** 431.06 nm
Mean Intensity: 248.5 nm **Std Dev:** 59.14%
PDI : 1.39886

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
137.62	0.87	1887.64	35.71111E-013

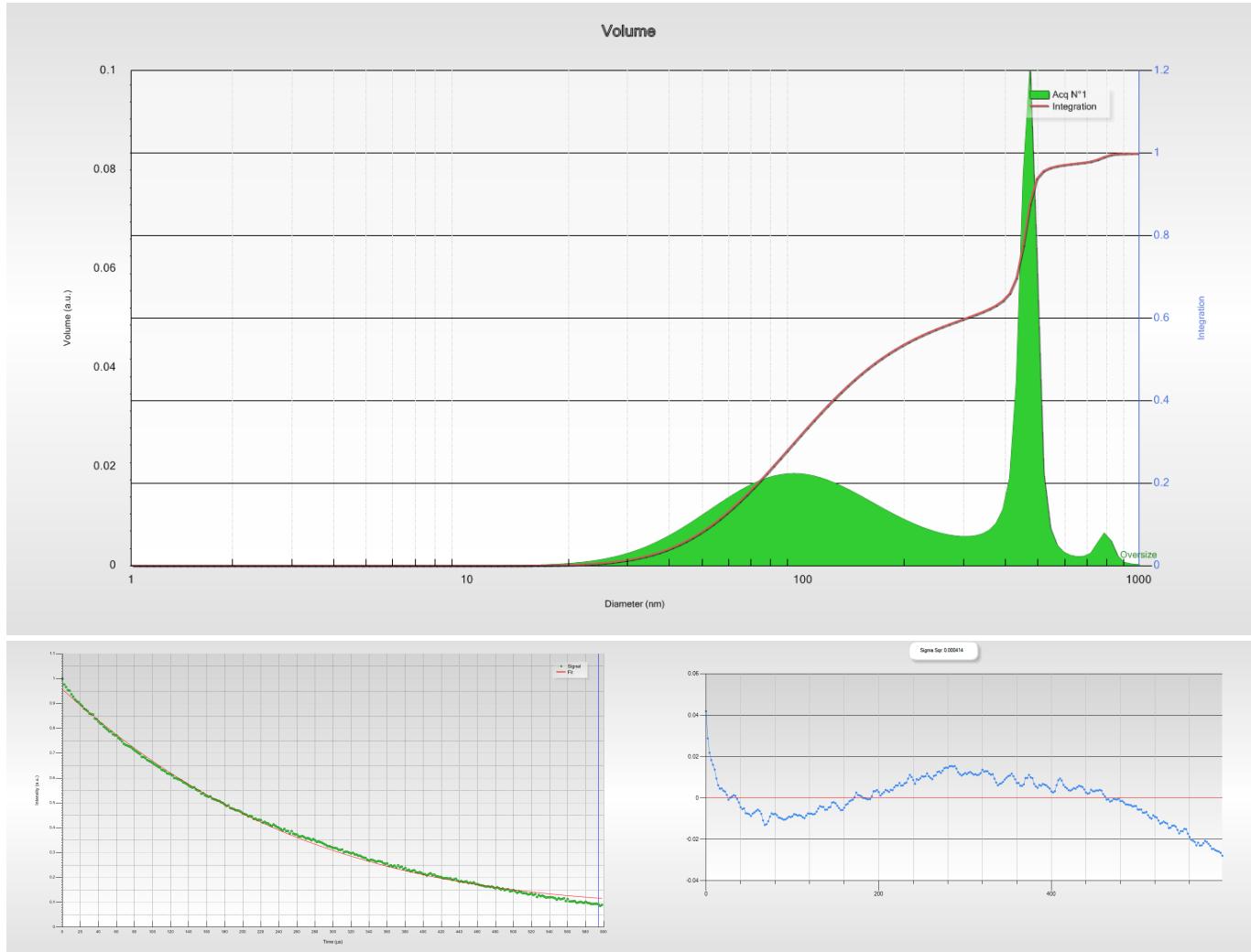


Distribution statistics

Dn 10%: 17.74 nm	Dn 50%: 35.5 nm	Dn 90%: 74.39 nm
Mean Number: 43.13 nm		
PDI : 1.39886		Std Dev: 59.14%

Detected size(s)

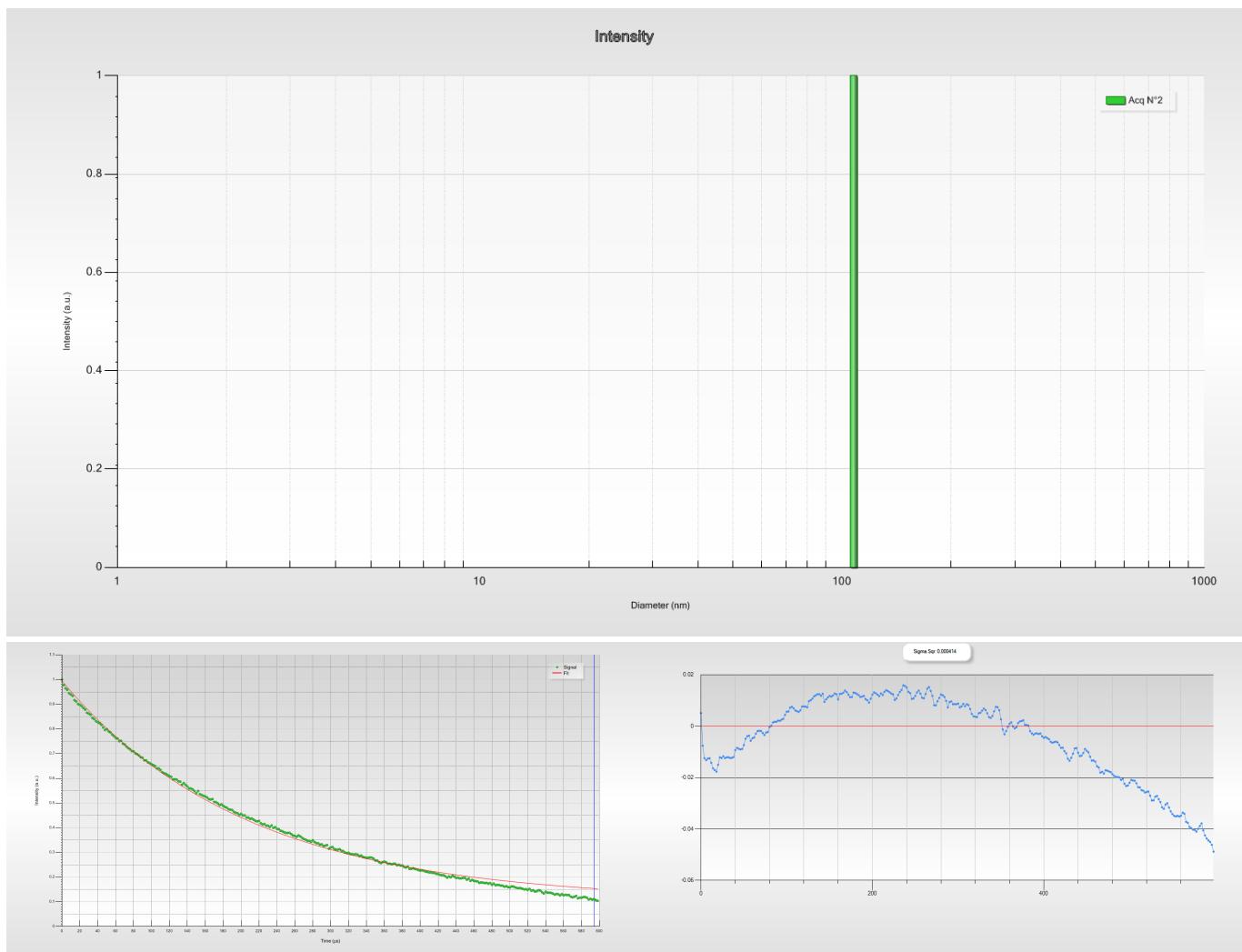
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
137.62	0.87	1887.64	35.71111E-013

**Distribution statistics**

D_v 10%: 53.82 nm **D_v 50%:** 170.97 nm **D_v 90%:** 495.2 nm
Mean Volume: 259.28 nm **Std Dev:** 59.14%
PDI : 1.39886

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
137.62	0.87	1887.64	35.71111E-013



Dispersion statistics

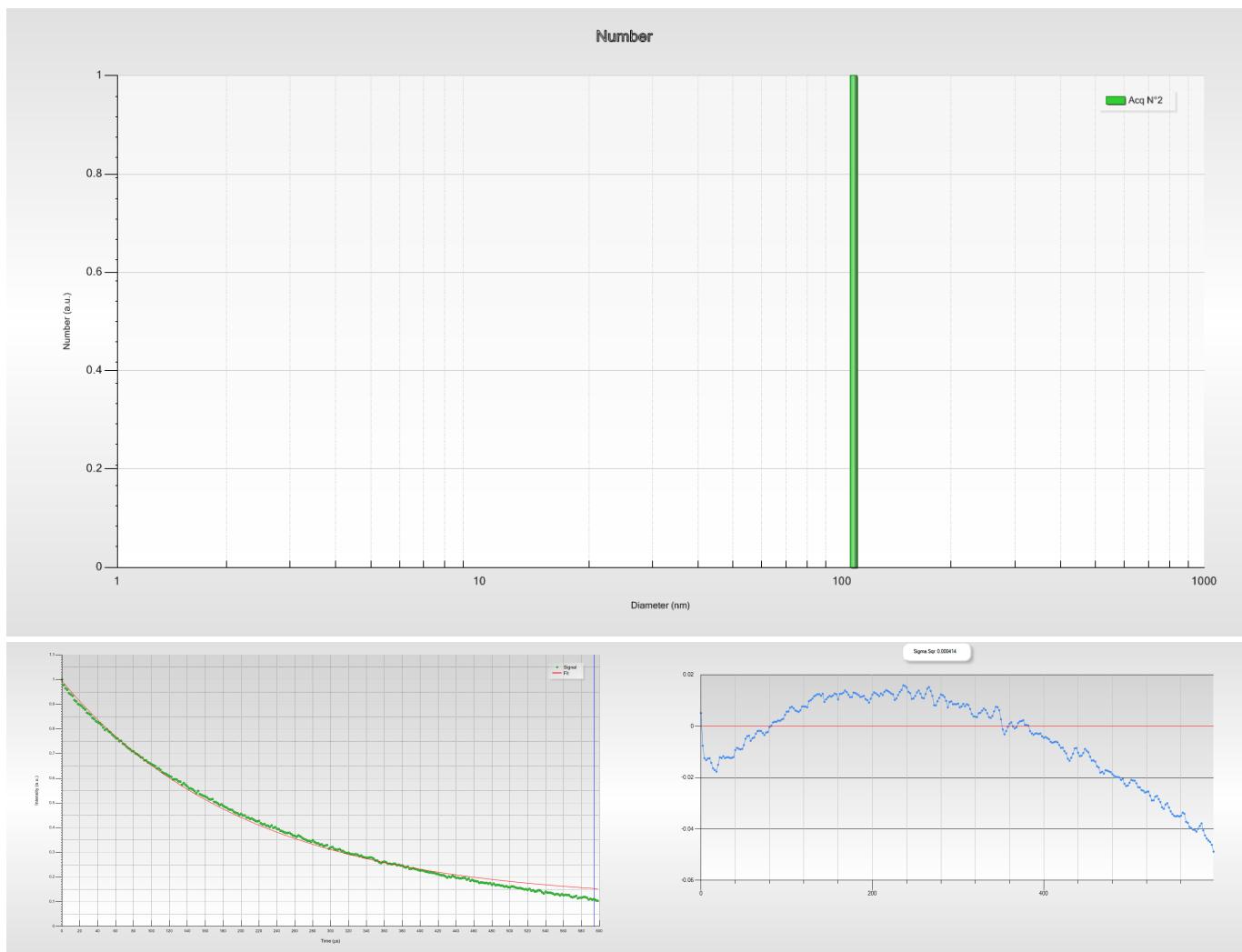
Di 10%: 107.68 nm **Di 50%:** 107.68 nm **Di 90%:** 107.68 nm
Mean Intensity: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
107.02	0.94	2427.41	45.92258E-013

Dispersion datas

Size (nm)	Intensity
107.68	1



Dispersion statistics

Dn 10%: 107.68 nm
Mean Number: 107.68 nm

Dn 50%: 107.68 nm

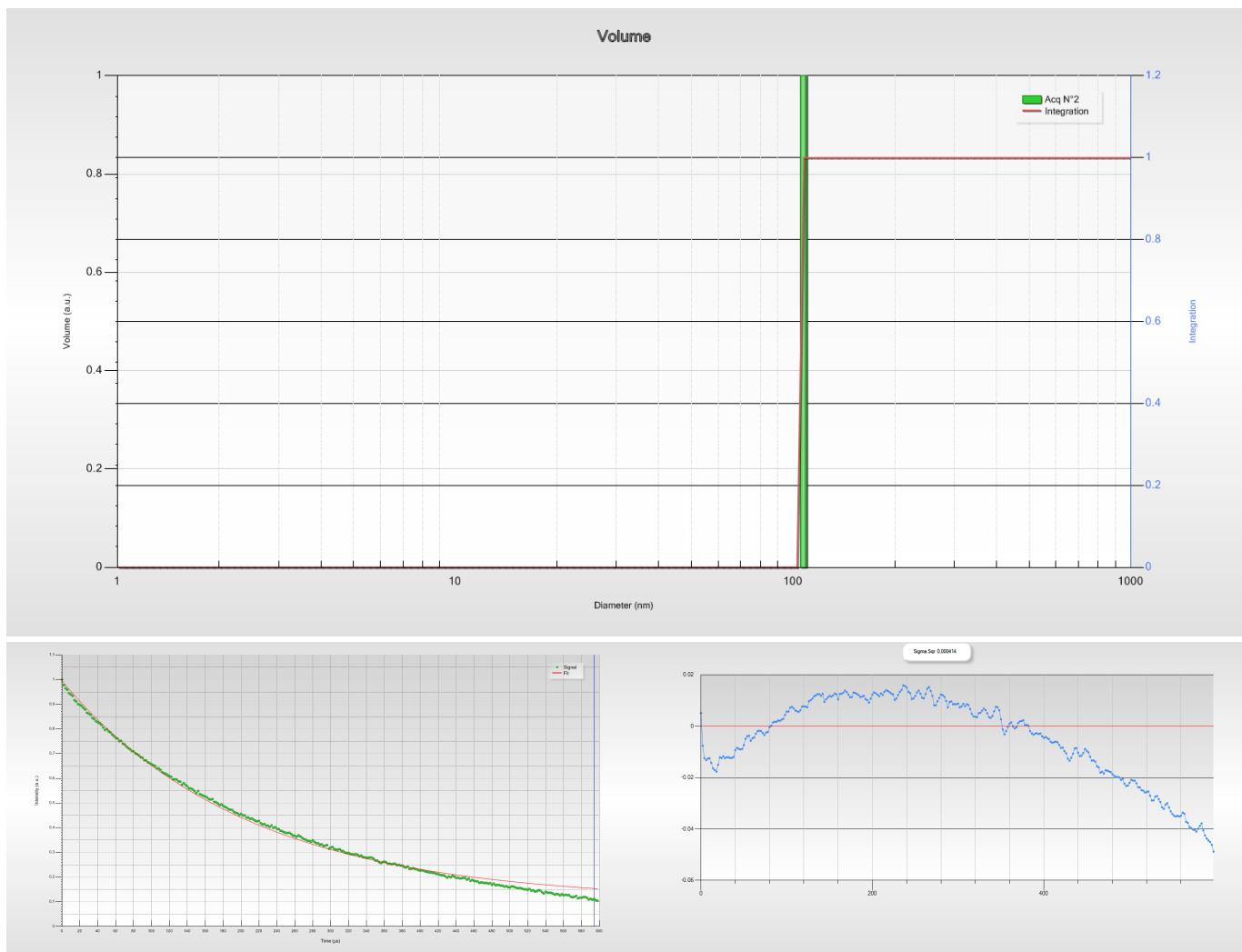
Dn 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
107.02	0.94	2427.41	45.92258E-013

Dispersion datas

Size (nm)	Number
107.68	1



Dispersion statistics

D_v 10%: 107.68 nm
Mean Volume: 107.68 nm

D_v 50%: 107.68 nm

D_v 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
107.02	0.94	2427.41	45.92258E-013

Dispersion data

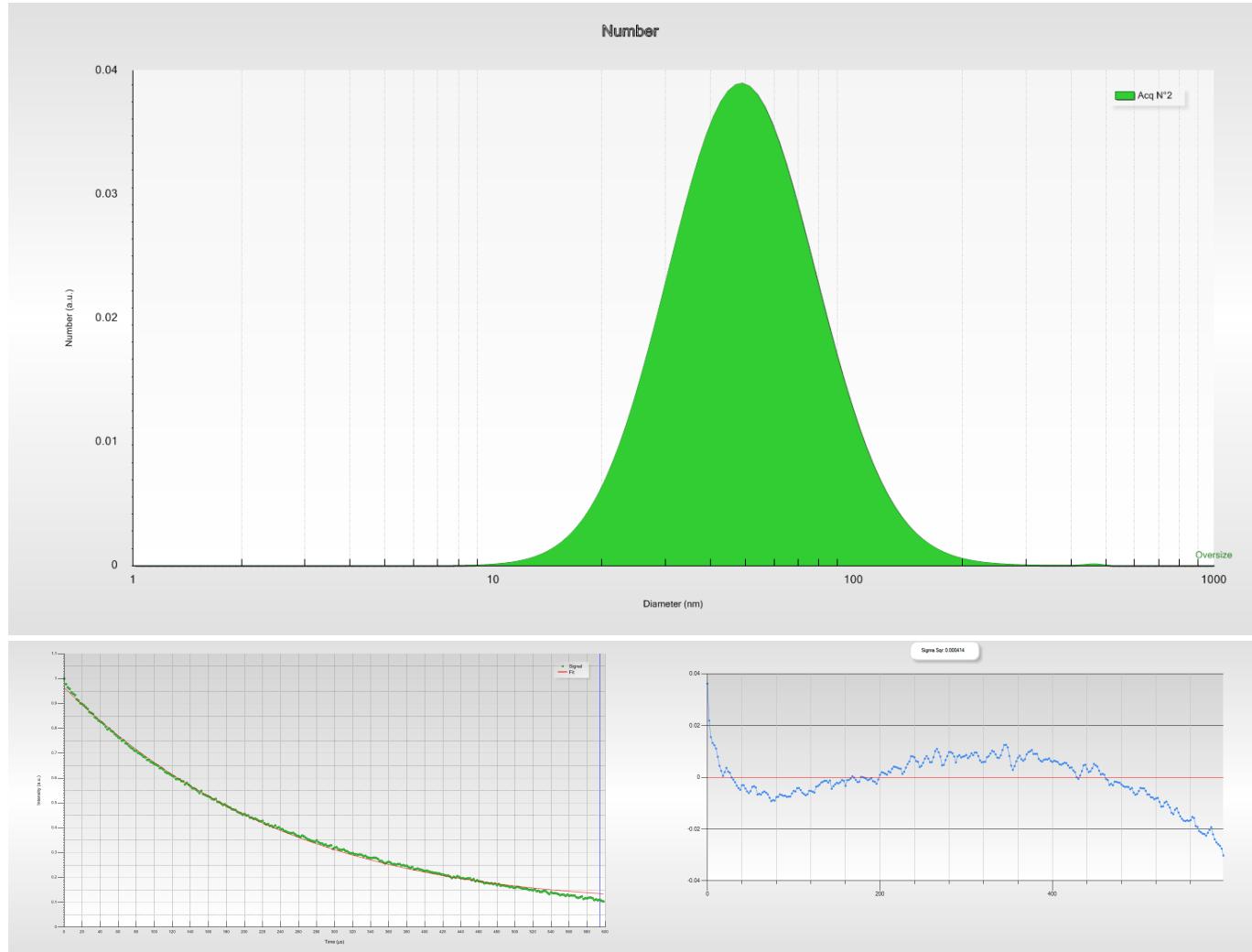
Size (nm)	Volume
107.68	1

**Distribution statistics**

Di 10%: 98.17 nm **Di 50%:** 179.07 nm **Di 90%:** 311.87 nm
Mean Intensity: 194.87 nm **Std Dev :** 49%
PDI : 0.96029

Detected size(s)

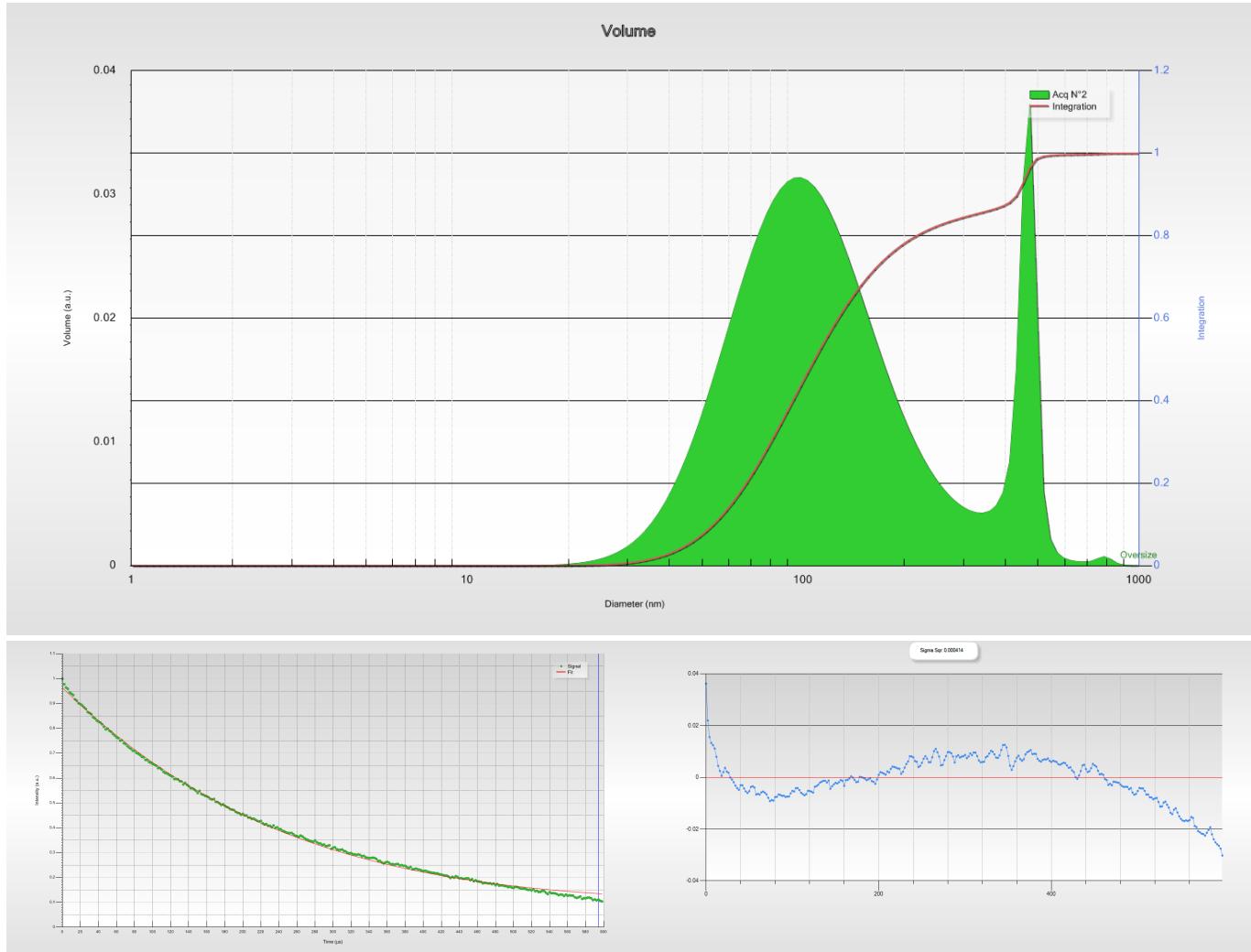
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
126.74	0.86	2049.78	38.77856E-013

**Distribution statistics**

Dn 10%: 26.9 nm **Dn 50%:** 49.06 nm **Dn 90%:** 89.5 nm
Mean Number: 55.27 nm **Std Dev :** 49%
PDI : 0.96029

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
126.74	0.86	2049.78	38.77856E-013



Distribution statistics

D_v 10%: 56.36 nm

Mean Volume: 164.24 nm

PDI : 0.96029

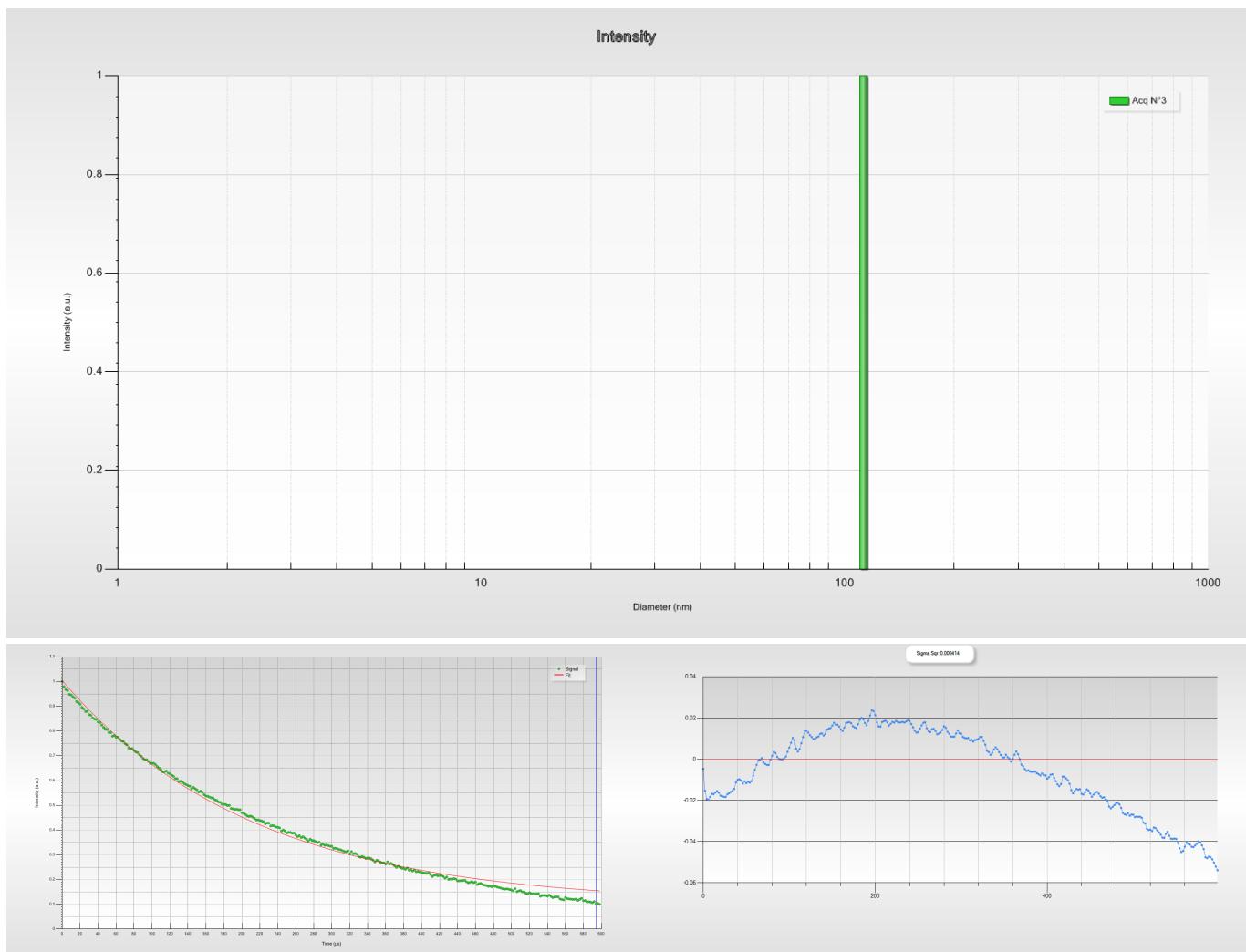
D_v 50%: 112.77 nm

D_v 90%: 451.46 nm

Std Dev : 49%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
126.74	0.86	2049.78	38.77856E-013



Dispersion statistics

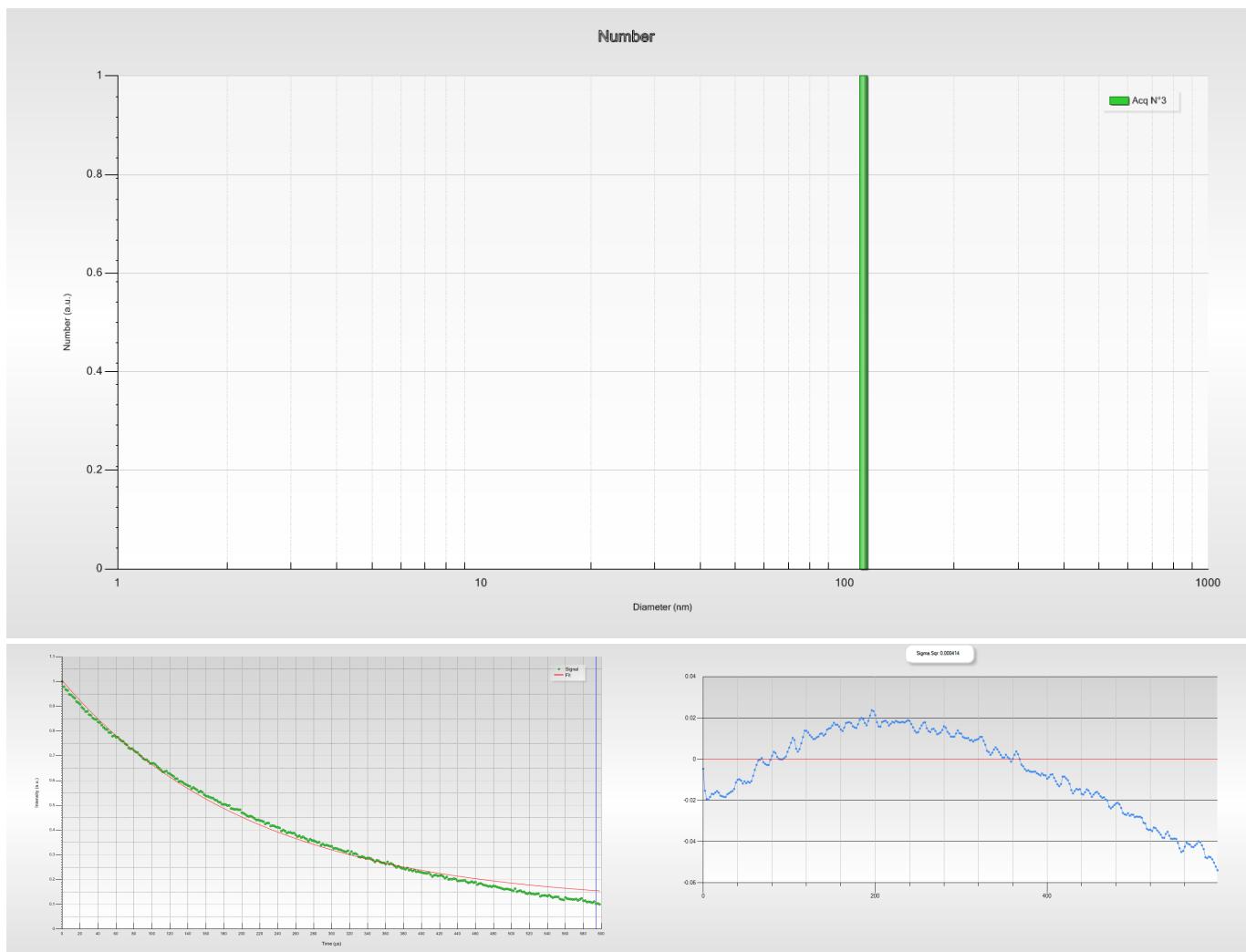
Di 10%: 112.77 nm **Di 50%:** 112.77 nm **Di 90%:** 112.77 nm
Mean Intensity: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
110.2	0.95	2357.46	44.59937E-013

Dispersion datas

Size (nm)	Intensity
112.77	1



Dispersion statistics

Dn 10%: 112.77 nm

Mean Number: 112.77 nm

Dn 50%: 112.77 nm

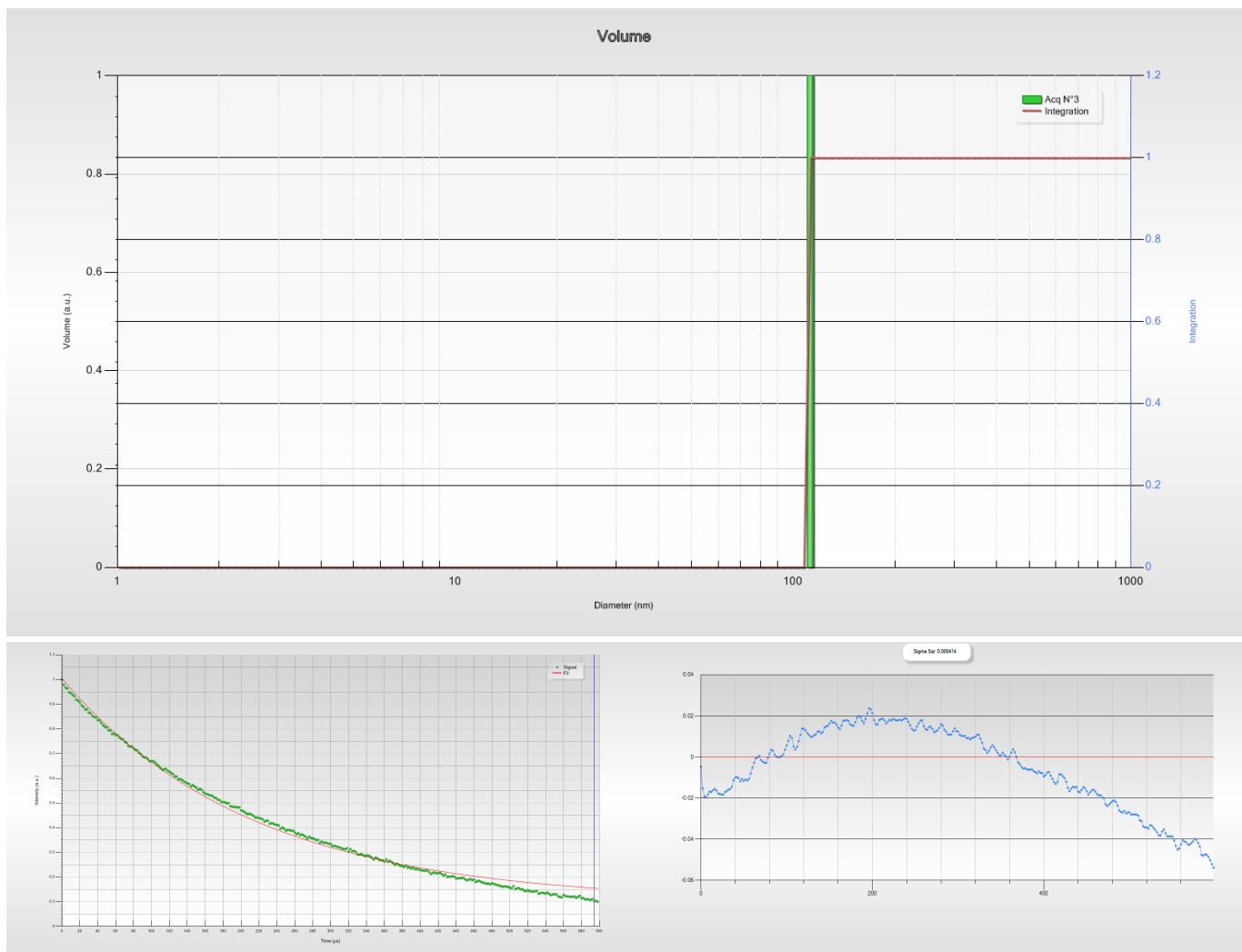
Dn 90%: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
110.2	0.95	2357.46	44.59937E-013

Dispersion datas

Size (nm)	Number
112.77	1



Dispersion statistics

D_v 10%: 112.77 nm
Mean Volume: 112.77 nm

D_v 50%: 112.77 nm

D_v 90%: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
110.2	0.95	2357.46	44.59937E-013

Dispersion datas

Size (nm)	Volume
112.77	1

**Distribution statistics**

Di 10%: 107.68 nm
Mean Intensity: 254.5 nm
PDI : 1.45288

Di 50%: 215.44 nm

Di 90%: 451.46 nm

Std Dev: 60.27%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
138.5	0.86	1875.7	35.48513E-013

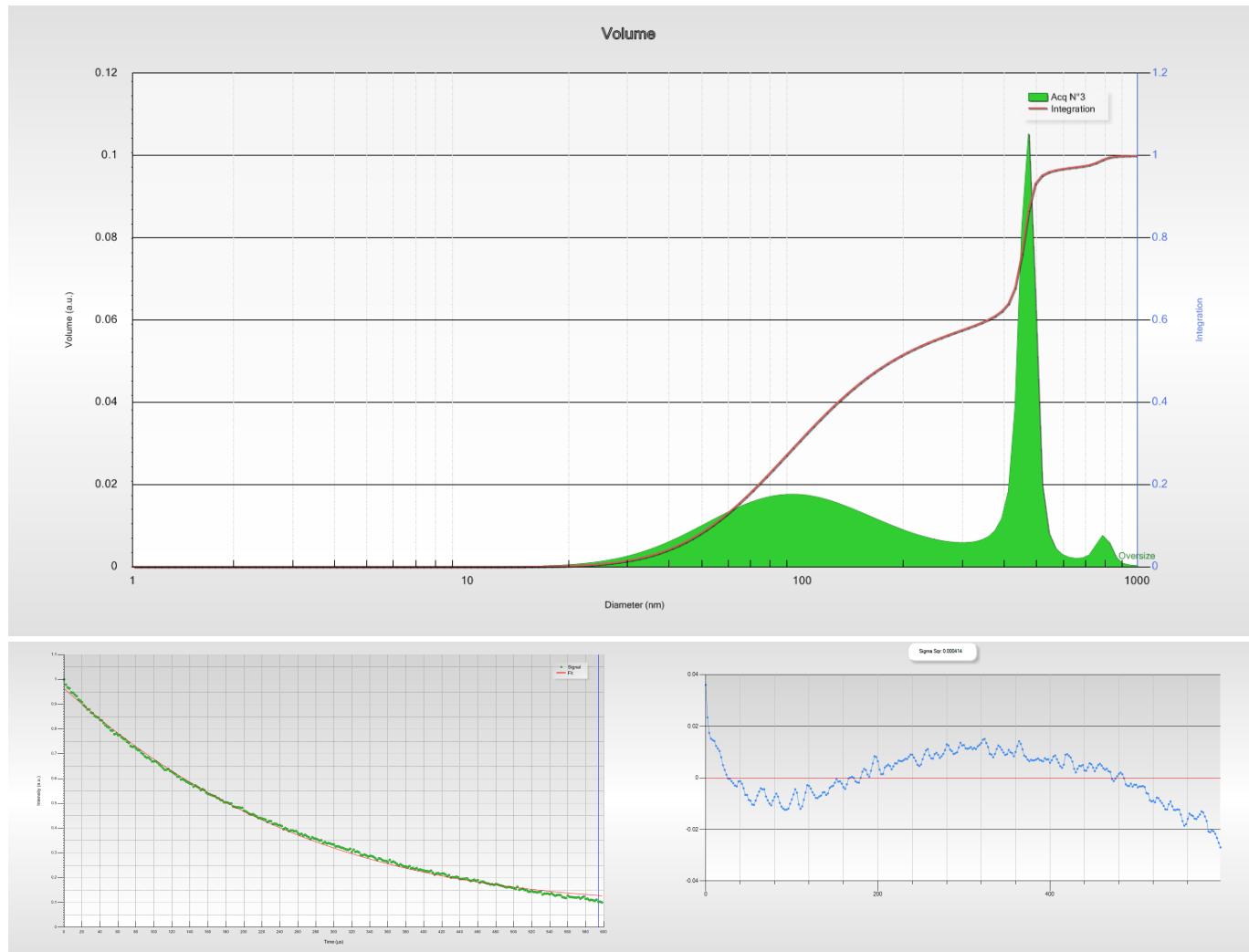


Distribution statistics

Dn 10%: 16.94 nm	Dn 50%: 35.5 nm	Dn 90%: 71.02 nm
Mean Number: 41.72 nm		
PDI : 1.45288		Std Dev: 60.27%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
138.5	0.86	1875.7	35.48513E-013

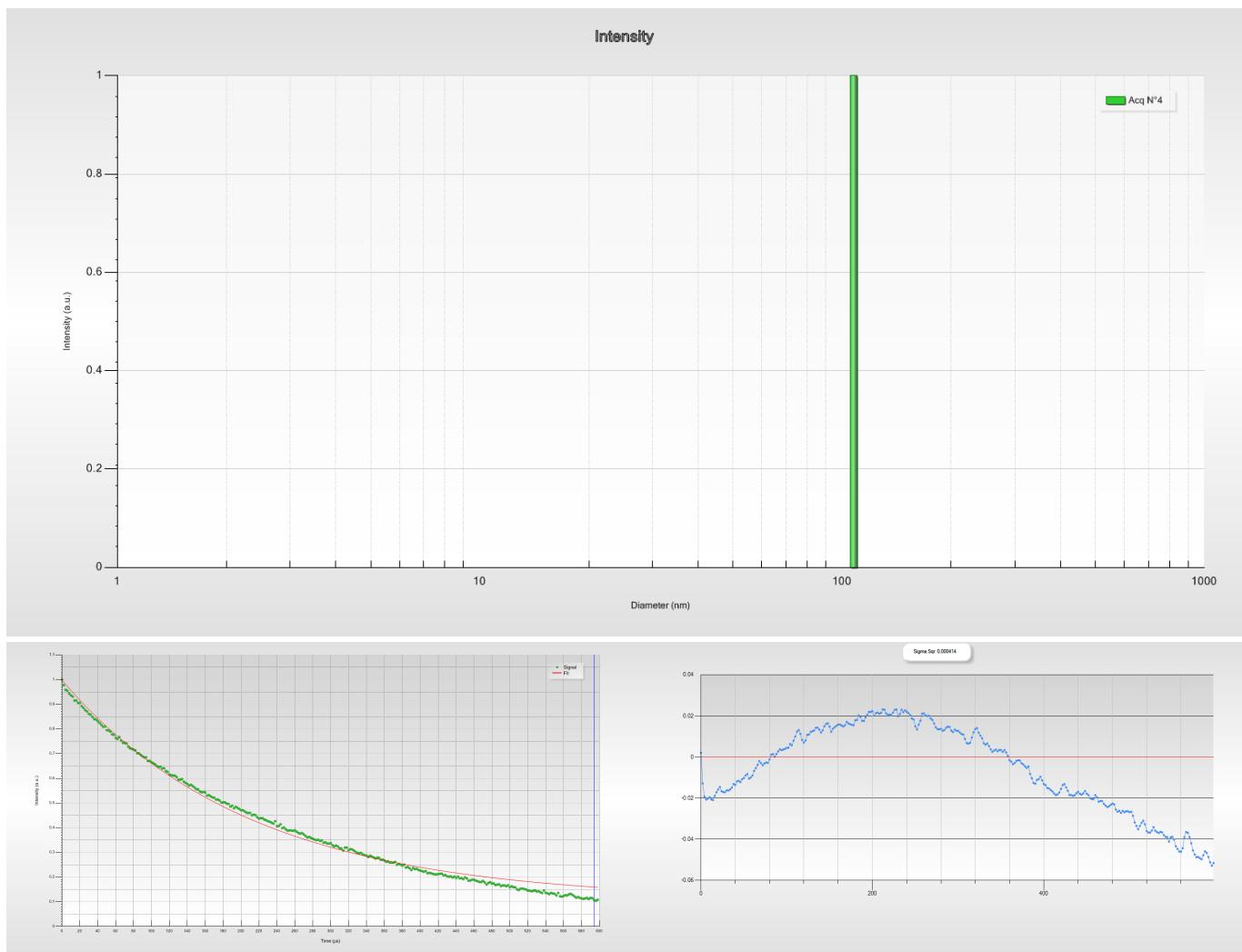


Distribution statistics

D_v 10%: 53.82 nm	D_v 50%: 187.54 nm	D_v 90%: 495.2 nm
Mean Volume: 268.24 nm		
PDI : 1.45288		Std Dev: 60.27%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
138.5	0.86	1875.7	35.48513E-013



Dispersion statistics

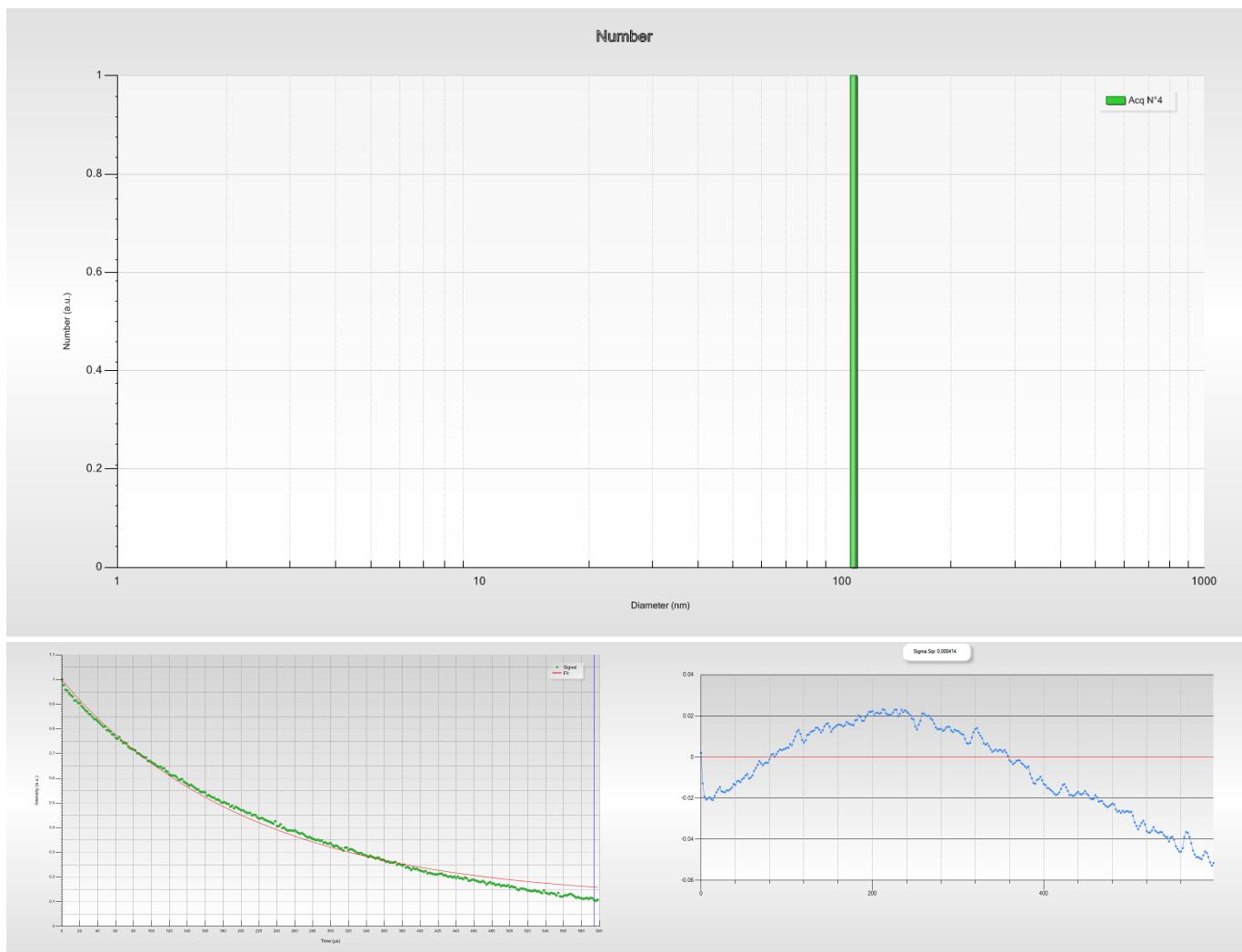
Di 10%: 107.68 nm **Di 50%:** 107.68 nm **Di 90%:** 107.68 nm
Mean Intensity: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.35	0.94	2375.67	44.94389E-013

Dispersion datas

Size (nm)	Intensity
107.68	1



Dispersion statistics

Dn 10%: 107.68 nm
Mean Number: 107.68 nm

Dn 50%: 107.68 nm

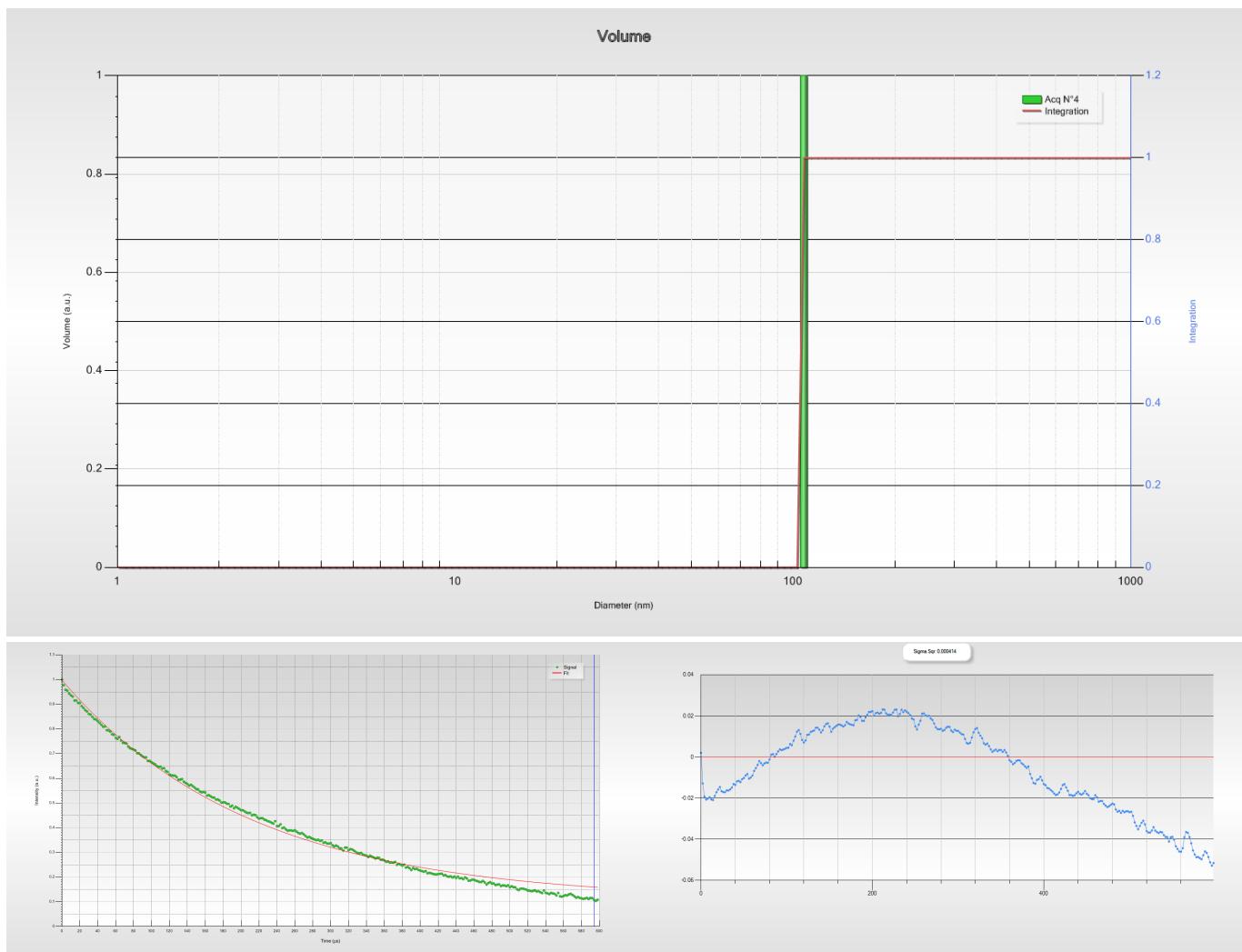
Dn 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.35	0.94	2375.67	44.94389E-013

Dispersion datas

Size (nm)	Number
107.68	1



Dispersion statistics

D_v 10%: 107.68 nm
Mean Volume: 107.68 nm

D_v 50%: 107.68 nm

D_v 90%: 107.68 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
109.35	0.94	2375.67	44.94389E-013

Dispersion datas

Size (nm)	Volume
107.68	1

**Distribution statistics**

Di 10%: 107.68 nm	Di 50%: 225.64 nm	Di 90%: 472.82 nm
Mean Intensity: 268.8 nm		
PDI : 1.59763		Std Dev: 63.2%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
139.92	0.85	1856.66	35.12504E-013

**Distribution statistics**

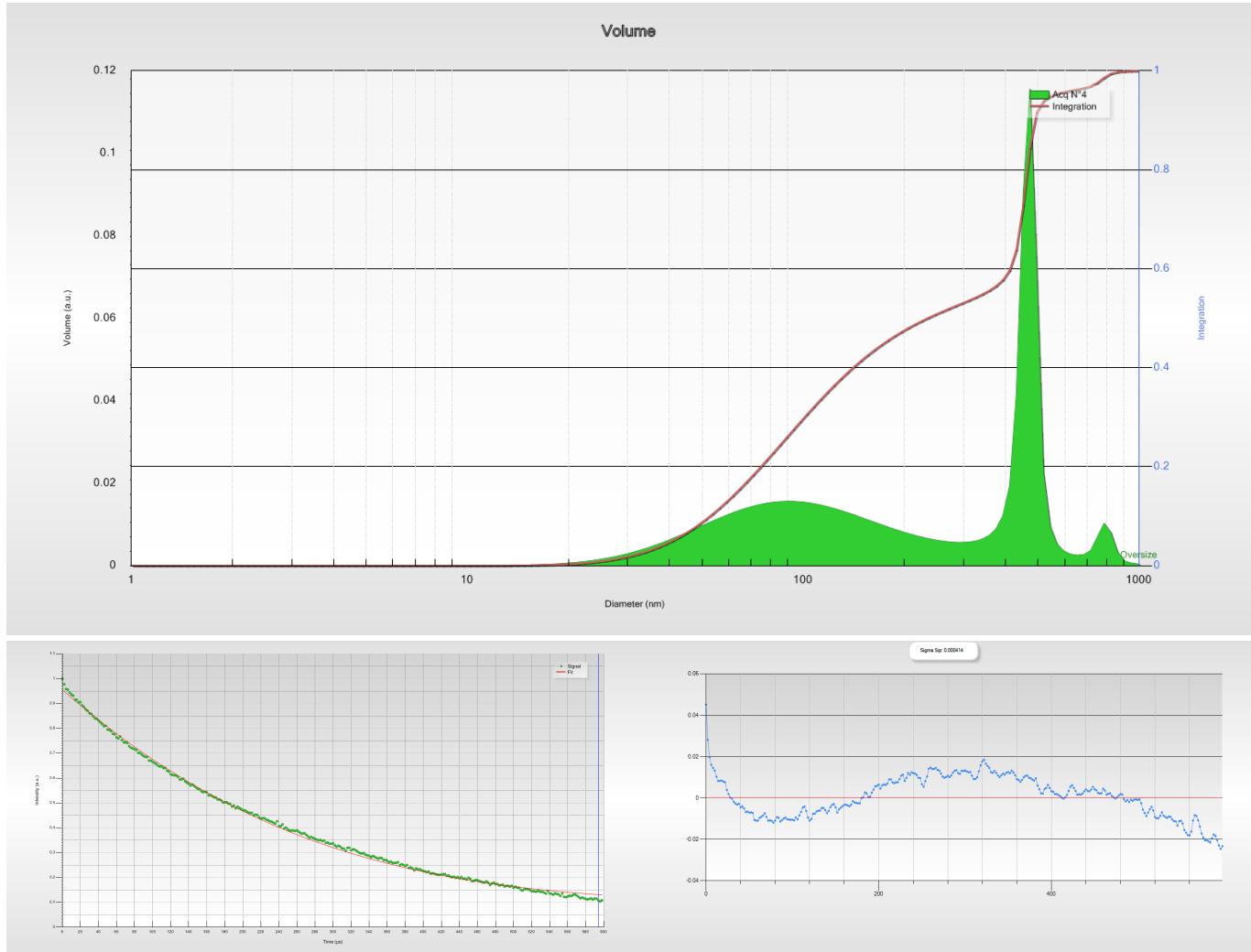
Dn 10%: 14.75 nm
Mean Number: 37.94 nm
PDI : 1.59763

Dn 50%: 30.9 nm

Dn 90%: 67.81 nm
Std Dev: 63.2%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
139.92	0.85	1856.66	35.12504E-013

**Distribution statistics**

D_v 10%: 53.82 nm
Mean Volume: 286.96 nm
PDI : 1.59763

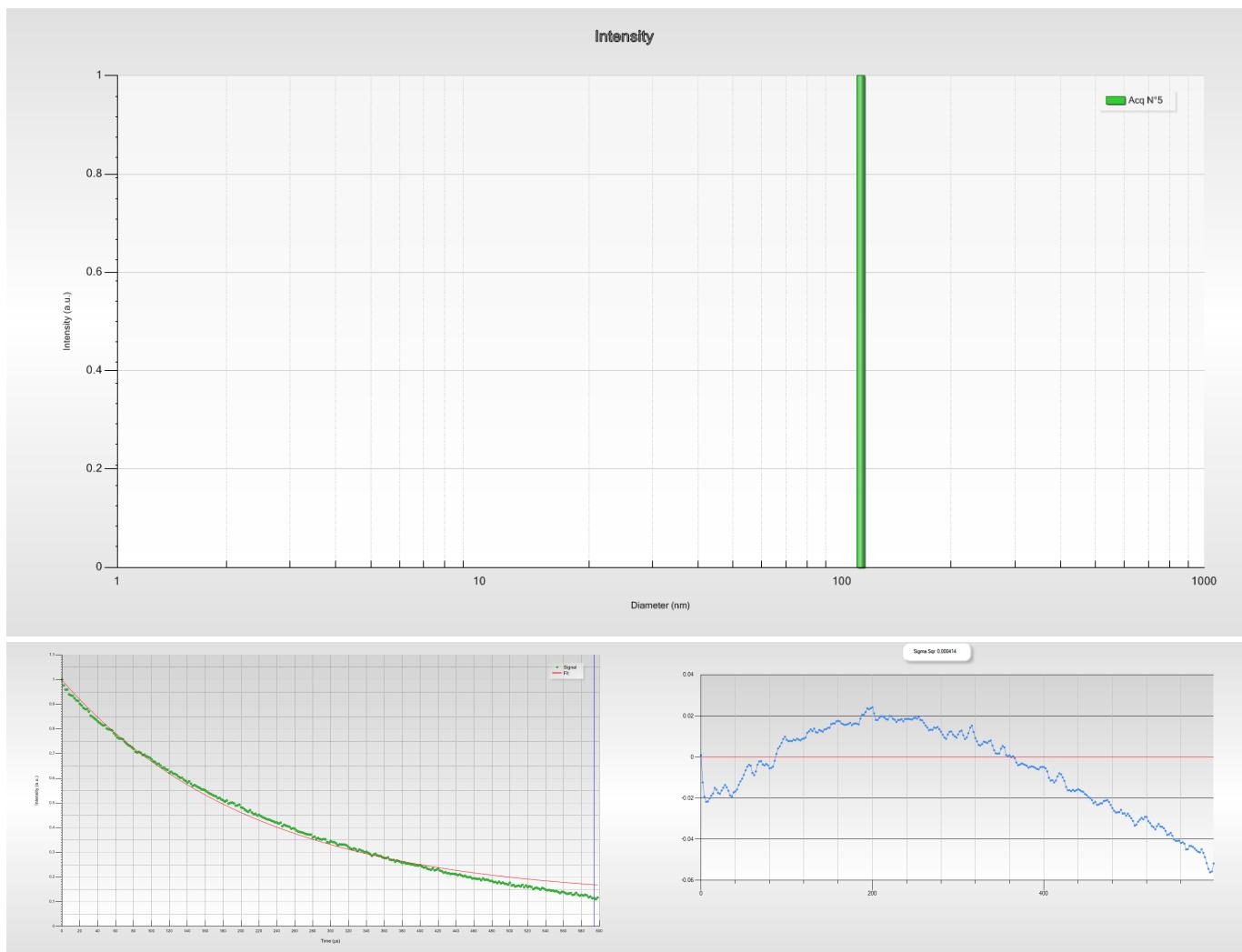
D_v 50%: 236.32 nm

D_v 90%: 495.2 nm

Std Dev: 63.2%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
139.92	0.85	1856.66	35.12504E-013



Dispersion statistics

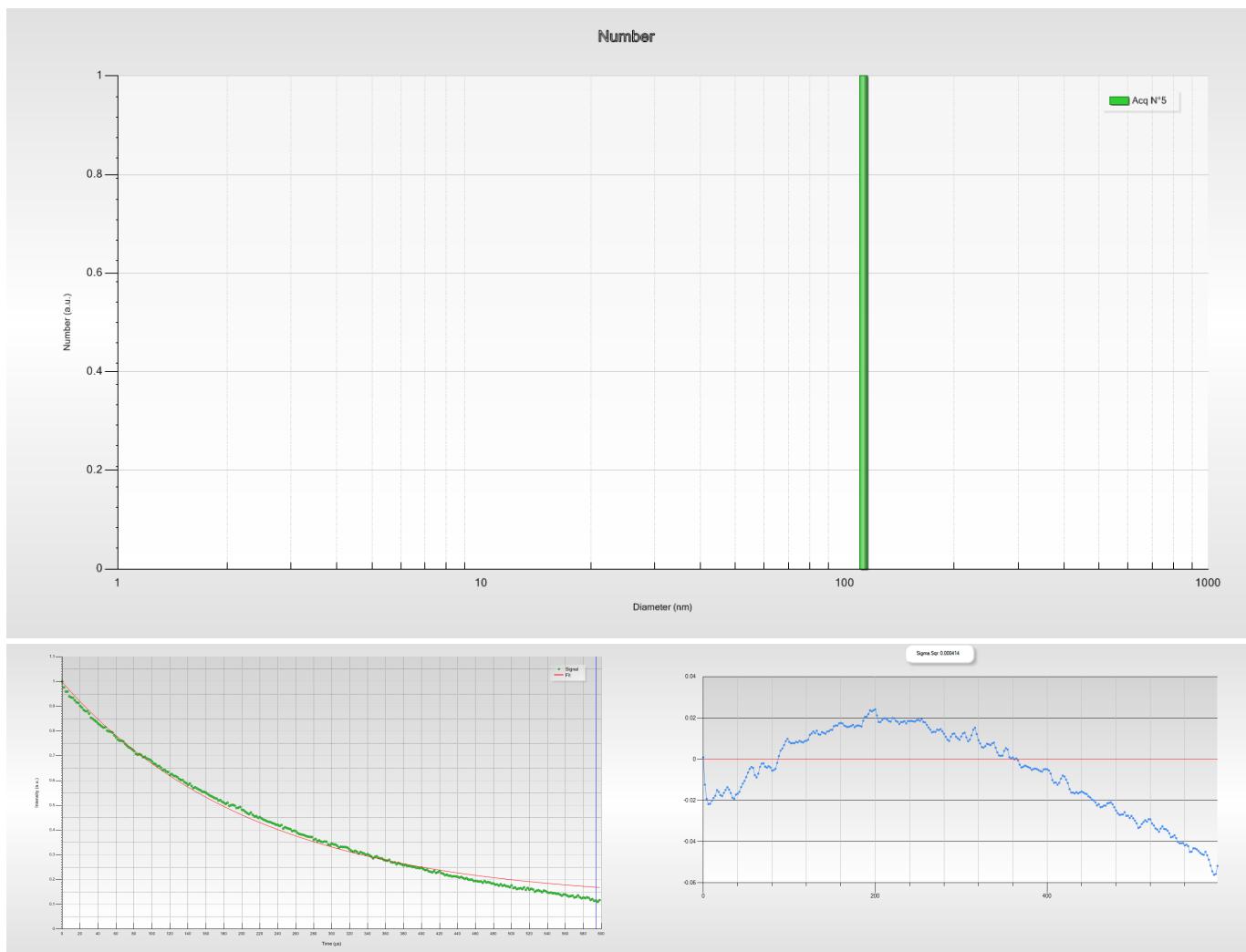
Di 10%: 112.77 nm **Di 50%:** 112.77 nm **Di 90%:** 112.77 nm
Mean Intensity: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
111.17	0.94	2336.94	44.21105E-013

Dispersion datas

Size (nm)	Intensity
112.77	1



Dispersion statistics

Dn 10%: 112.77 nm
Mean Number: 112.77 nm

Dn 50%: 112.77 nm

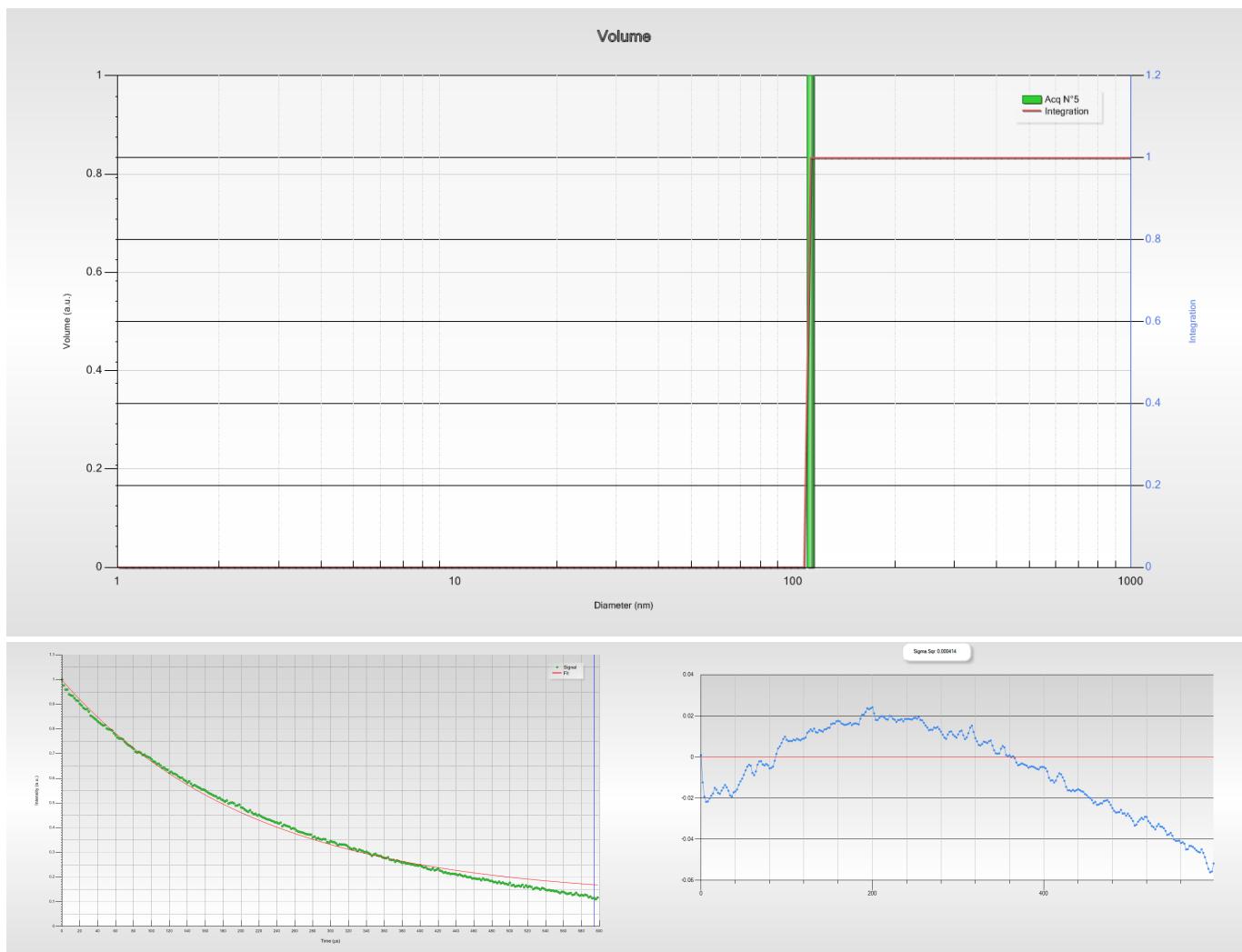
Dn 90%: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
111.17	0.94	2336.94	44.21105E-013

Dispersion datas

Size (nm)	Number
112.77	1



Dispersion statistics

D_v 10%: 112.77 nm
Mean Volume: 112.77 nm

D_v 50%: 112.77 nm

D_v 90%: 112.77 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
111.17	0.94	2336.94	44.21105E-013

Dispersion datas

Size (nm)	Volume
112.77	1

**Distribution statistics**

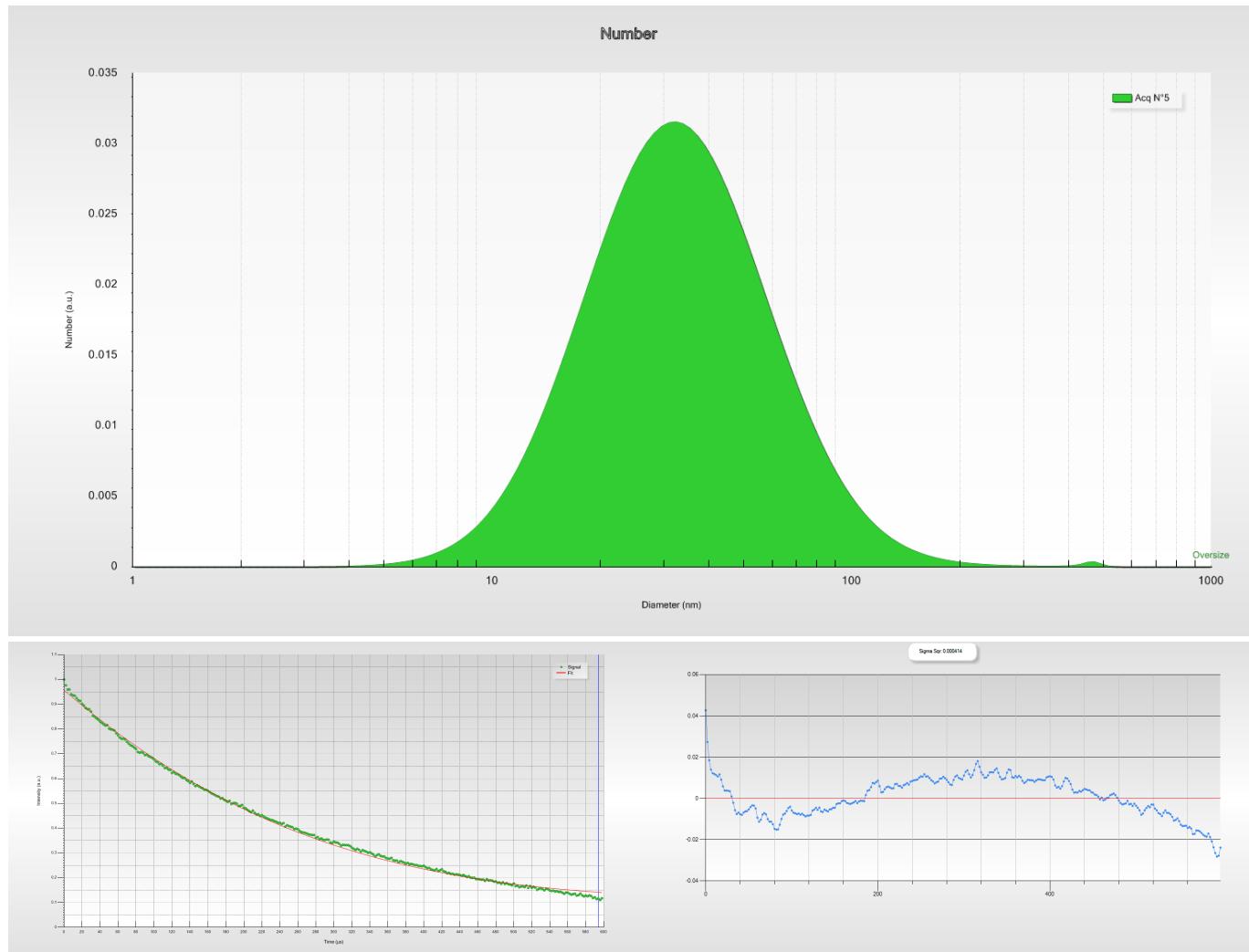
Di 10%: 112.77 nm
Mean Intensity: 269.62 nm
PDI : 1.57108

Di 50%: 236.32 nm

Di 90%: 472.82 nm
Std Dev: 62.67%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
141.6	0.84	1834.71	34.70966E-013

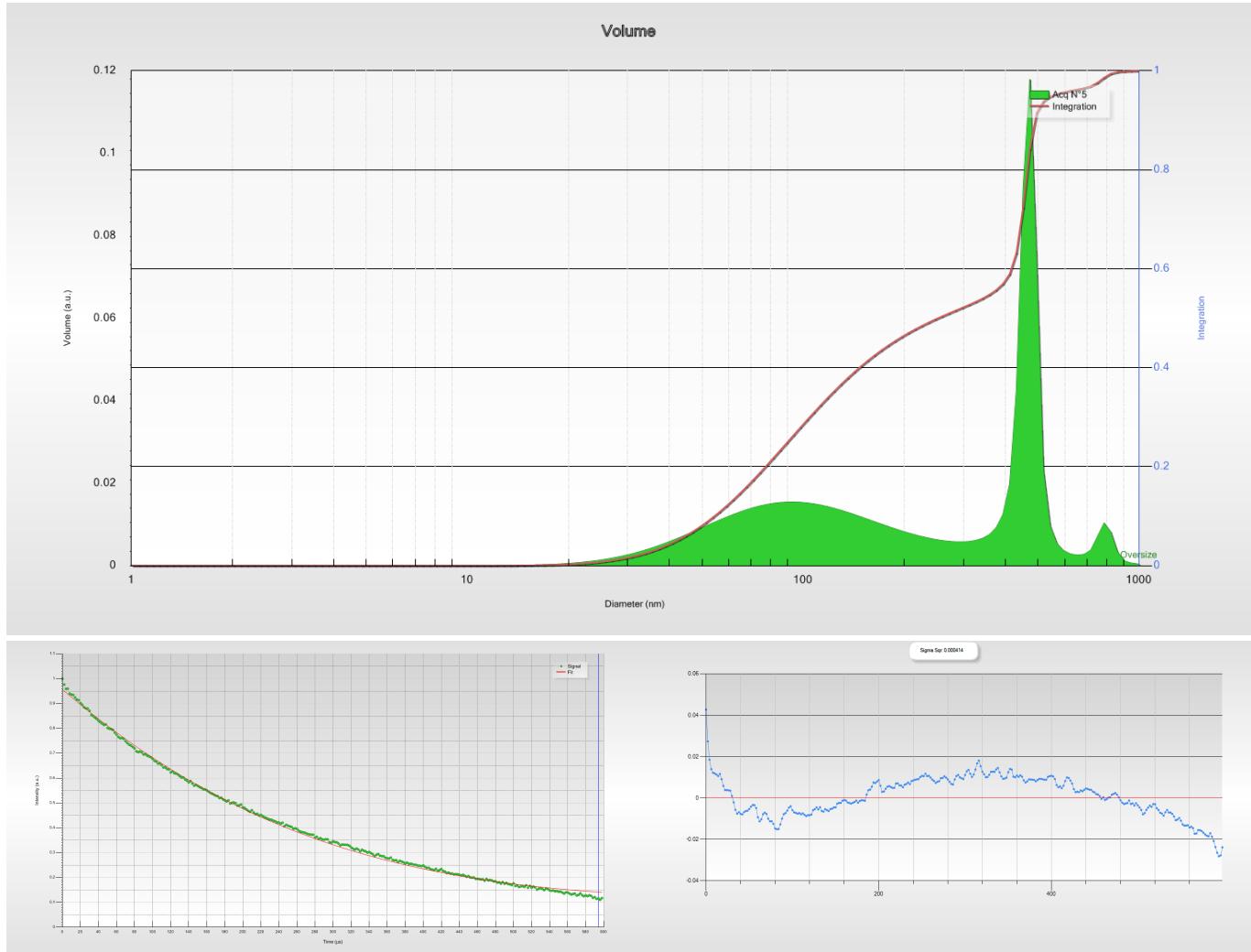


Distribution statistics

Dn 10%: 15.44 nm	Dn 50%: 32.36 nm	Dn 90%: 67.81 nm
Mean Number: 39.22 nm		
PDI : 1.57108		Std Dev: 62.67%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
141.6	0.84	1834.71	34.70966E-013

**Distribution statistics**

D_v 10%: 56.36 nm
Mean Volume: 291.17 nm
PDI : 1.57108

D_v 50%: 259.21 nm

D_v 90%: 495.2 nm

Std Dev: 62.67%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
141.6	0.84	1834.71	34.70966E-013