

Sample

Name : GNP_11.4.16_9.10_2
Mesured On : 11.04.2016 17:00
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	: 70 %	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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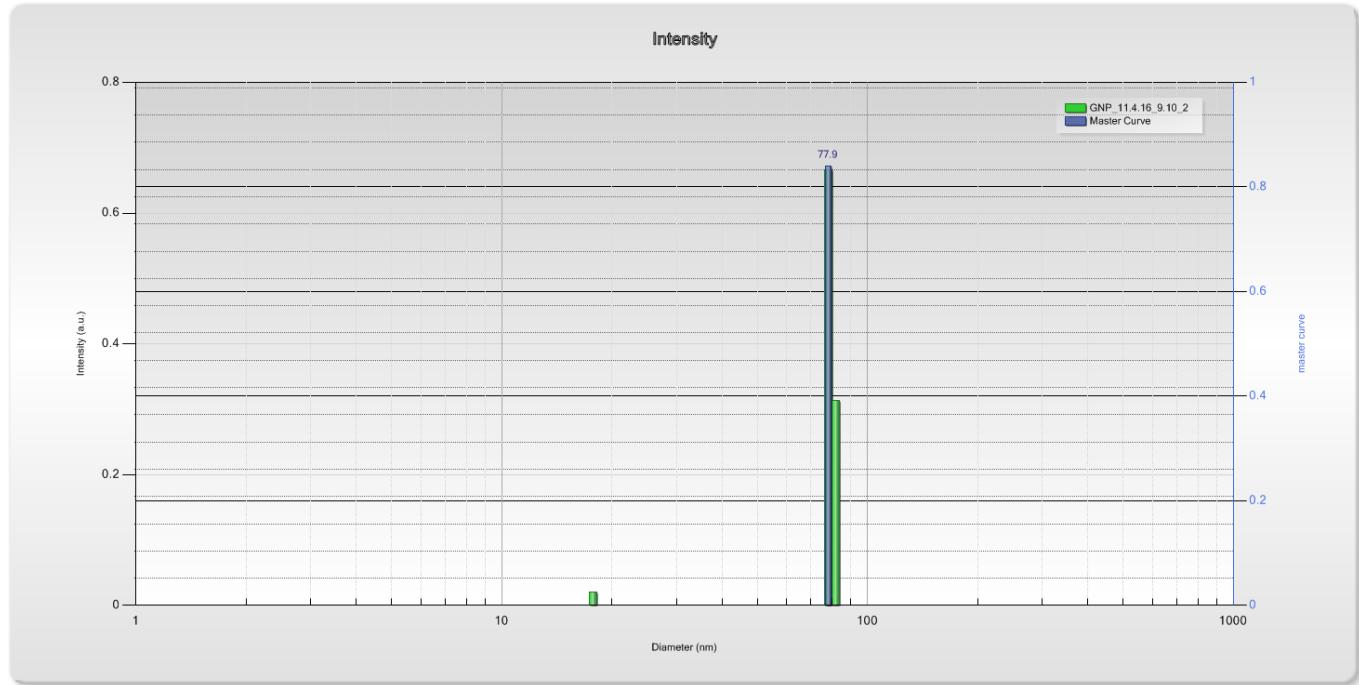
Algorithm

Pade Laplace	Cumulants
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Measurement

Average count rate : 3125 kcps
Number of rejected : 2

Duration : 00:05:15
Number of modified : 0



Dispersion statistics

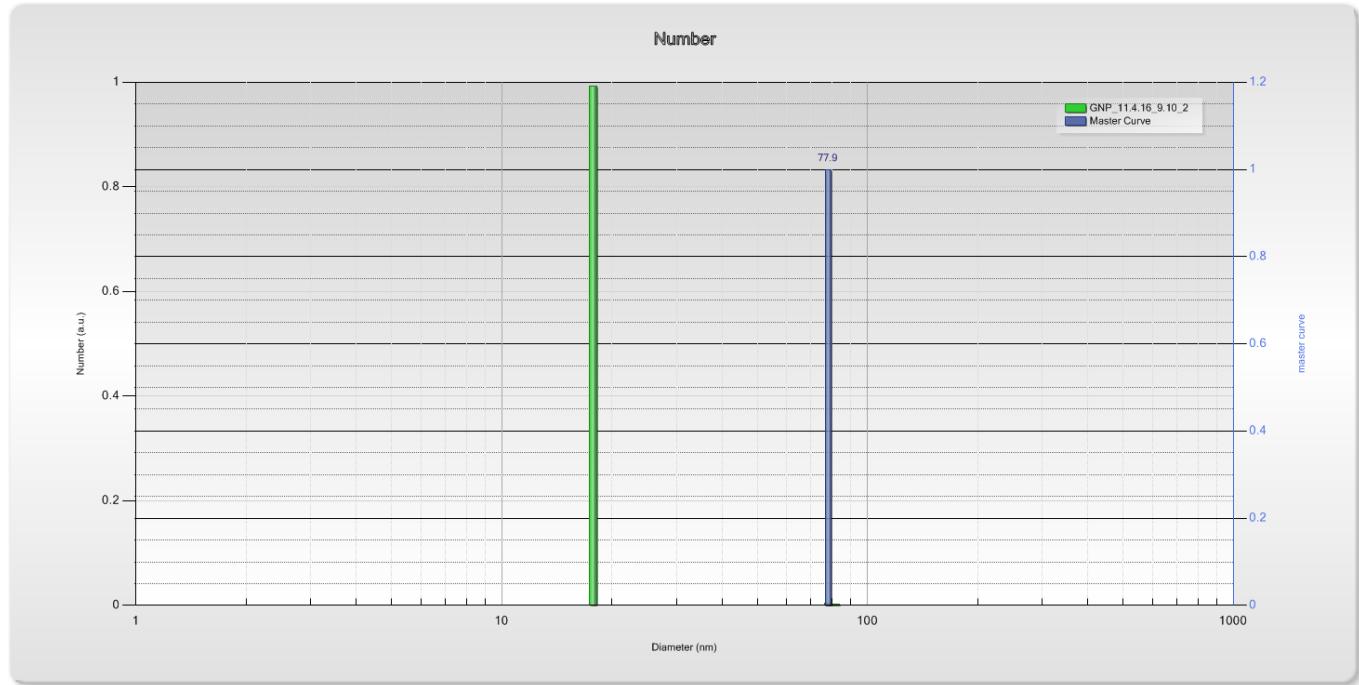
Di 10%: 77.91 nm

Di 50%: 77.91 nm

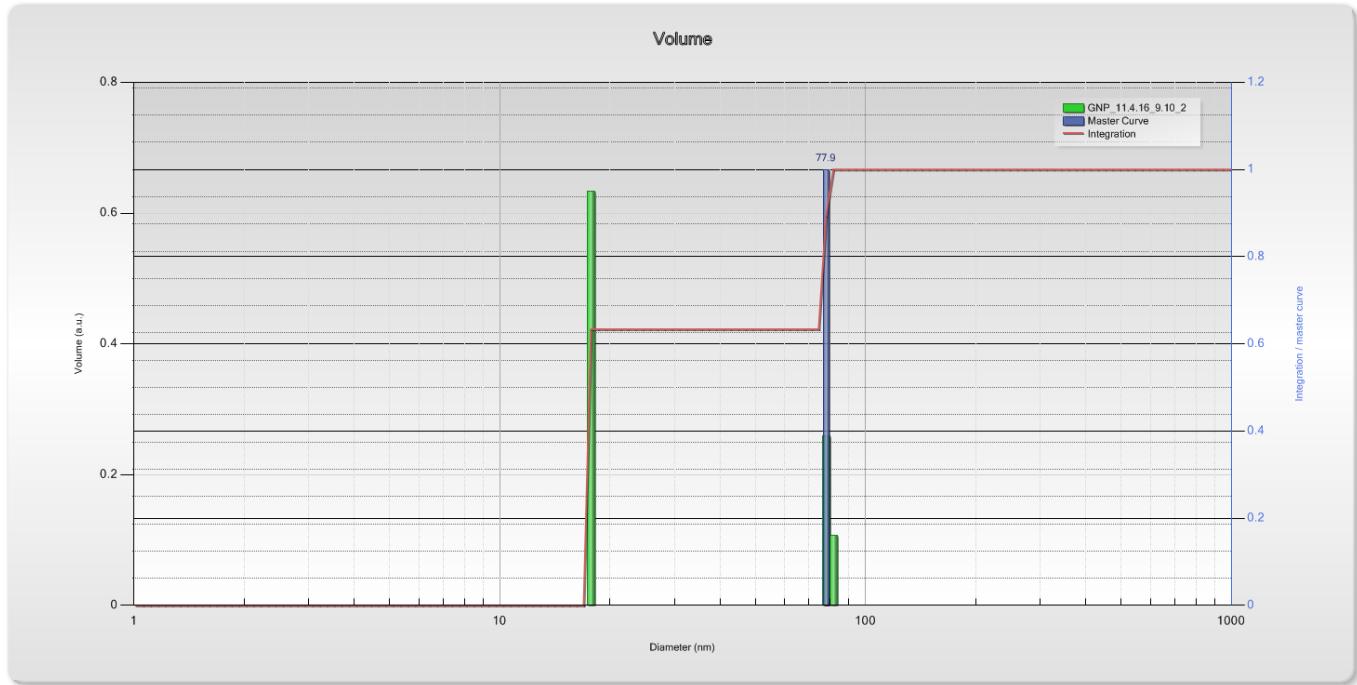
Di 90%: 81.59 nm

Dispersion data

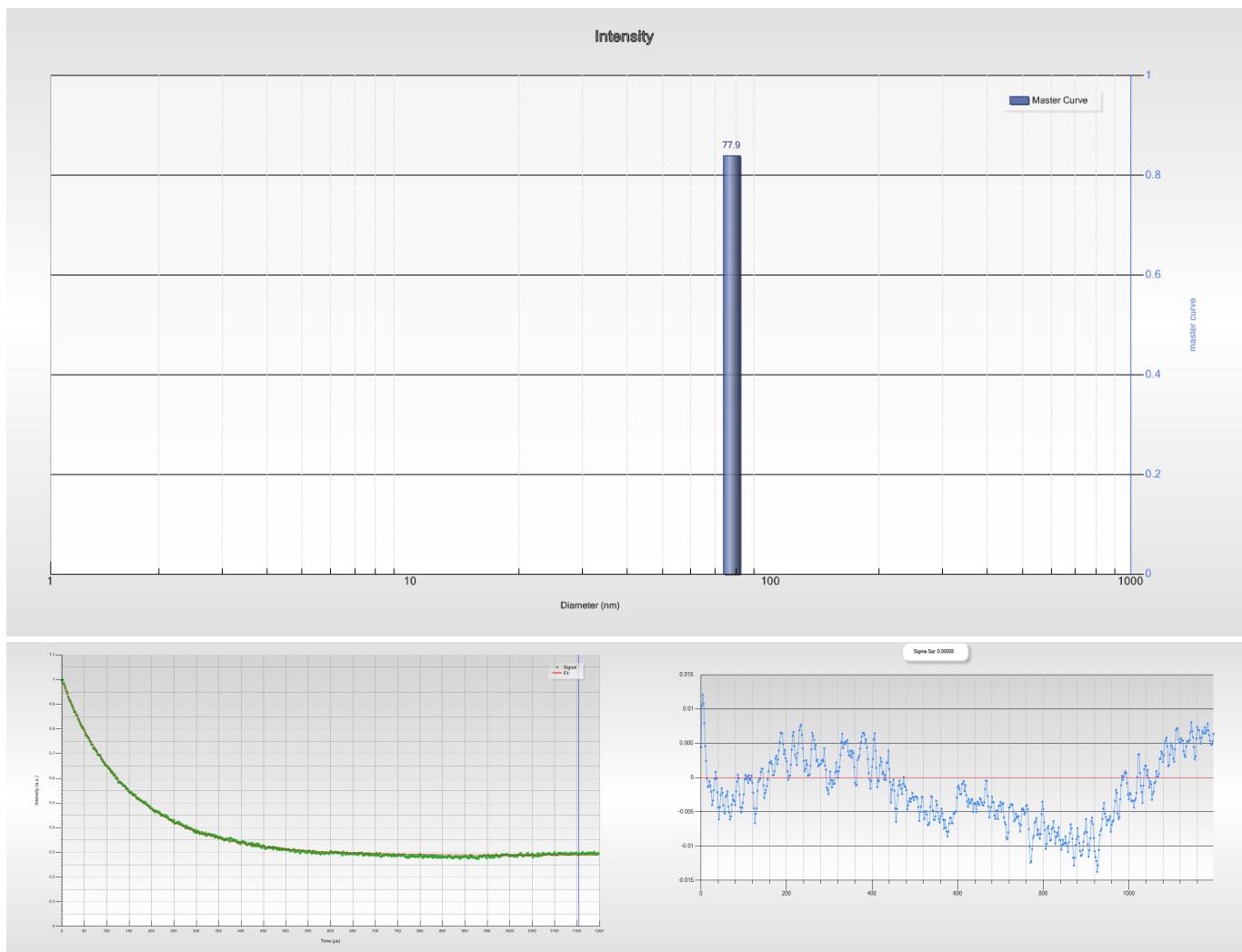
Size (nm)	Intensity	Size (nm)	Intensity	Size (nm)	Intensity
17.74	0.02	77.91	0.67	81.59	0.31

**Dispersion statistics****Dn 10%:** 17.74 nm**Dn 50%:** 17.74 nm**Dn 90%:** 17.74 nm**Dispersion data**

Size (nm)	Number
17.74	0.99

***Dispersion statistics*****D_v 10%: 17.74 nm****D_v 50%: 17.74 nm****D_v 90%: 81.59 nm*****Dispersion data***

Size (nm)	Volume	Size (nm)	Volume	Size (nm)	Volume
17.74	0.63	77.91	0.26	81.59	0.11



Dispersion statistics

Di 10%: 77.91 nm
Mean Intensity: 77.91 nm

Di 50%: 77.91 nm

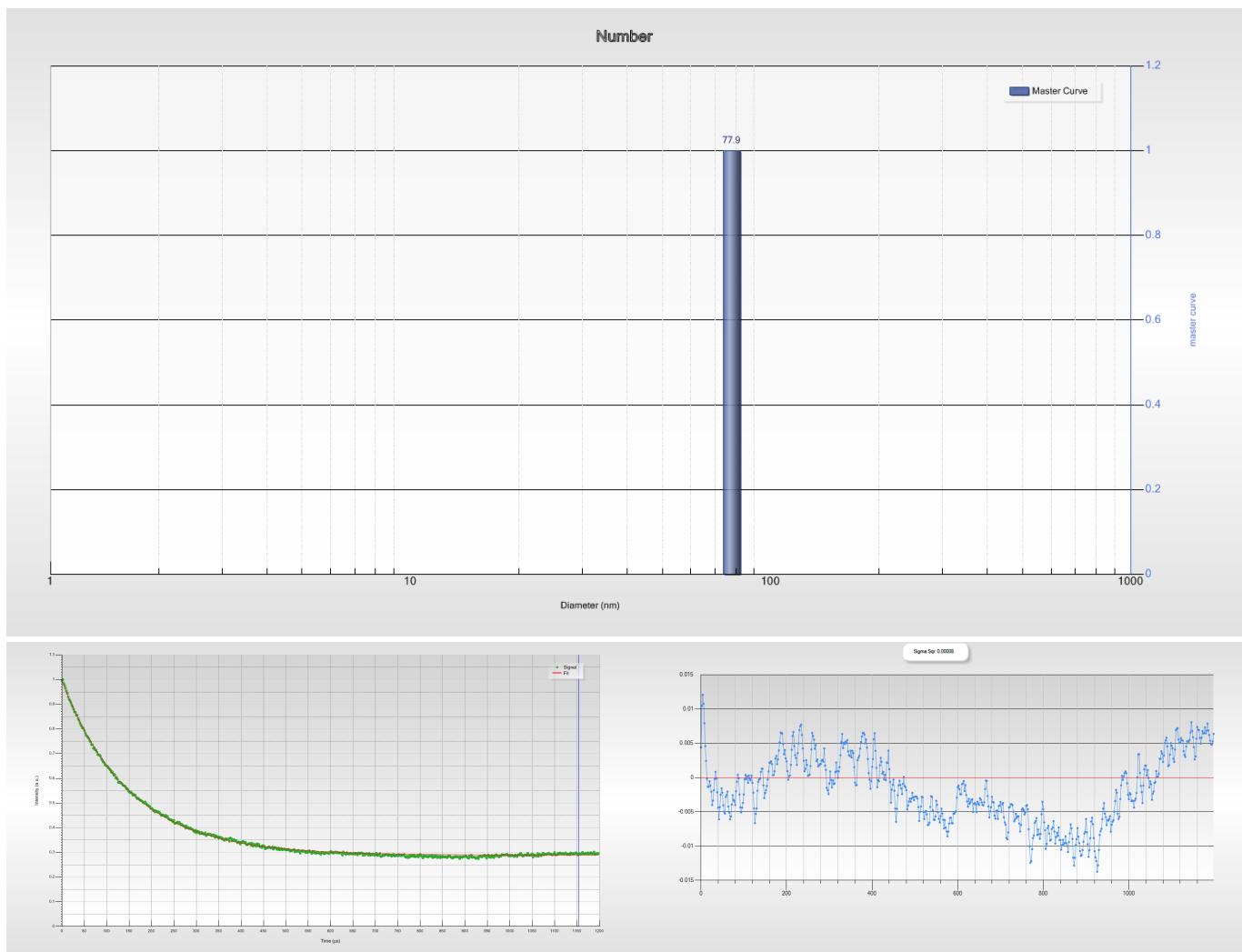
Di 90%: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.27	0.84	3320.45	62.81756E-013

Dispersion datas

Size (nm)	Intensity
77.91	1



Dispersion statistics

Dn 10%: 77.91 nm
Mean Number: 77.91 nm

Dn 50%: 77.91 nm

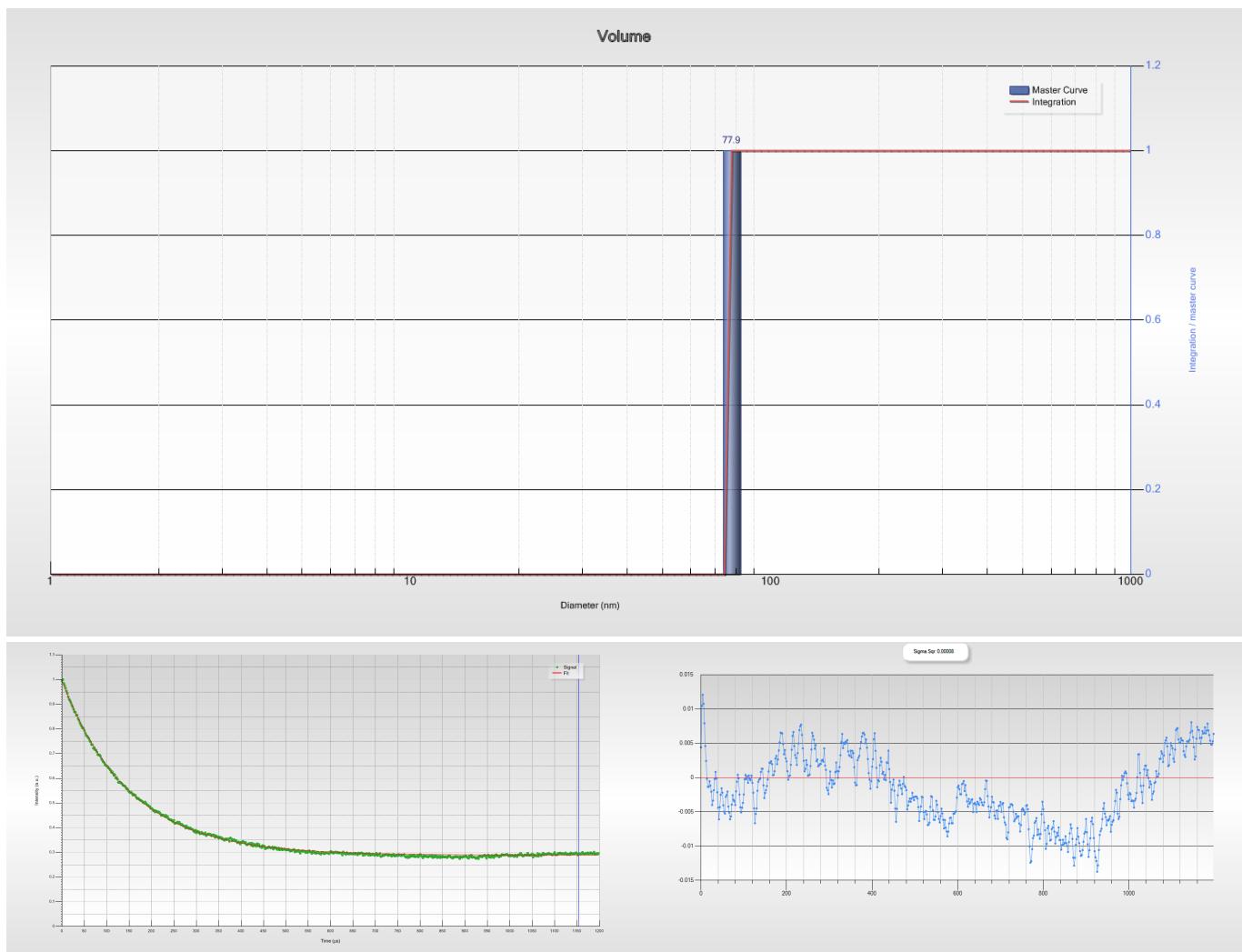
Dn 90%: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
78.27	0.84	3320.45	62.81756E-013

Dispersion datas

Size (nm)	Number
77.91	1



Dispersion statistics

D_v 10%: 77.91 nm
Mean Volume: 77.91 nm

D_v 50%: 77.91 nm

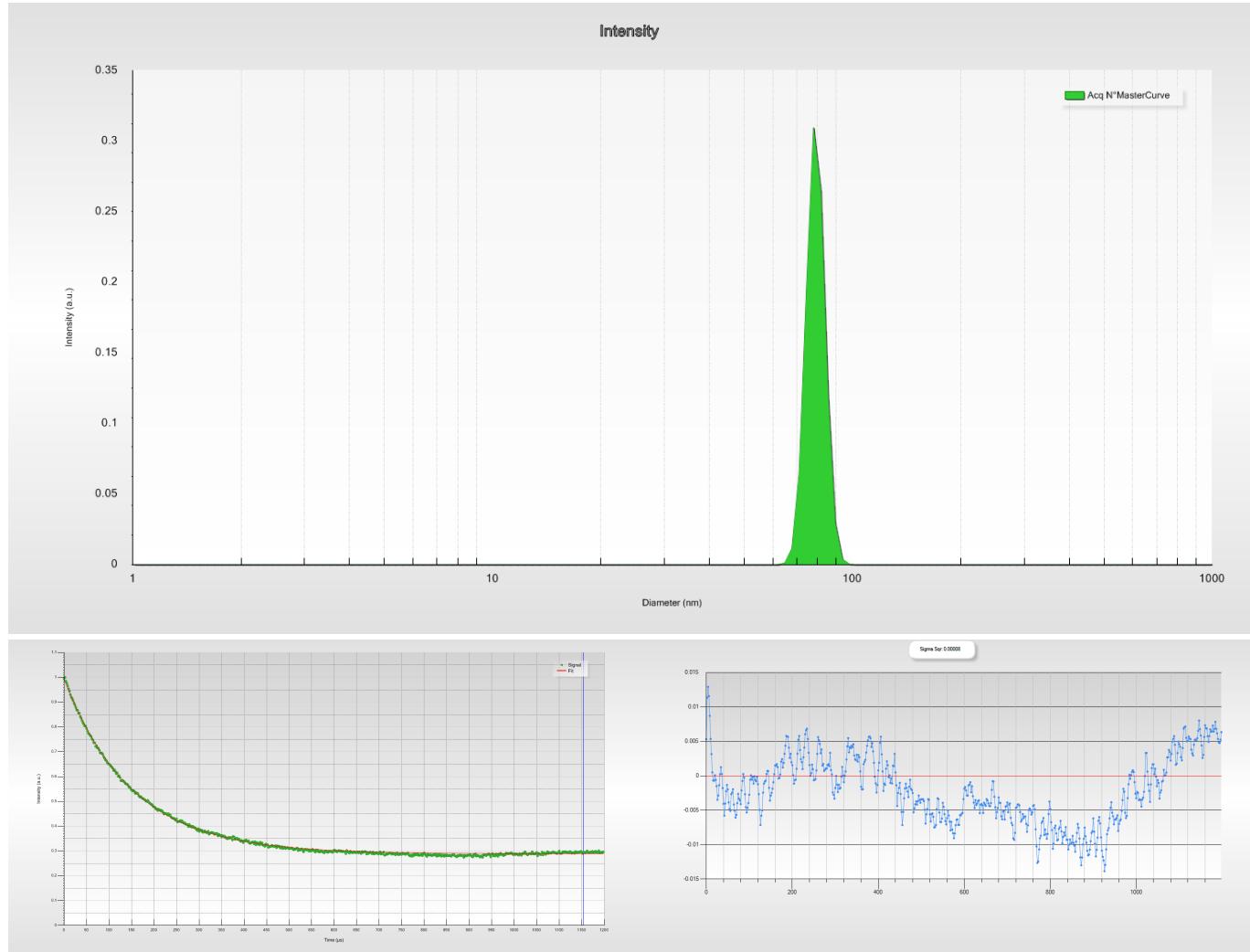
D_v 90%: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.27	0.84	3320.45	62.81756E-013

Dispersion datas

Size (nm)	Volume
77.91	1

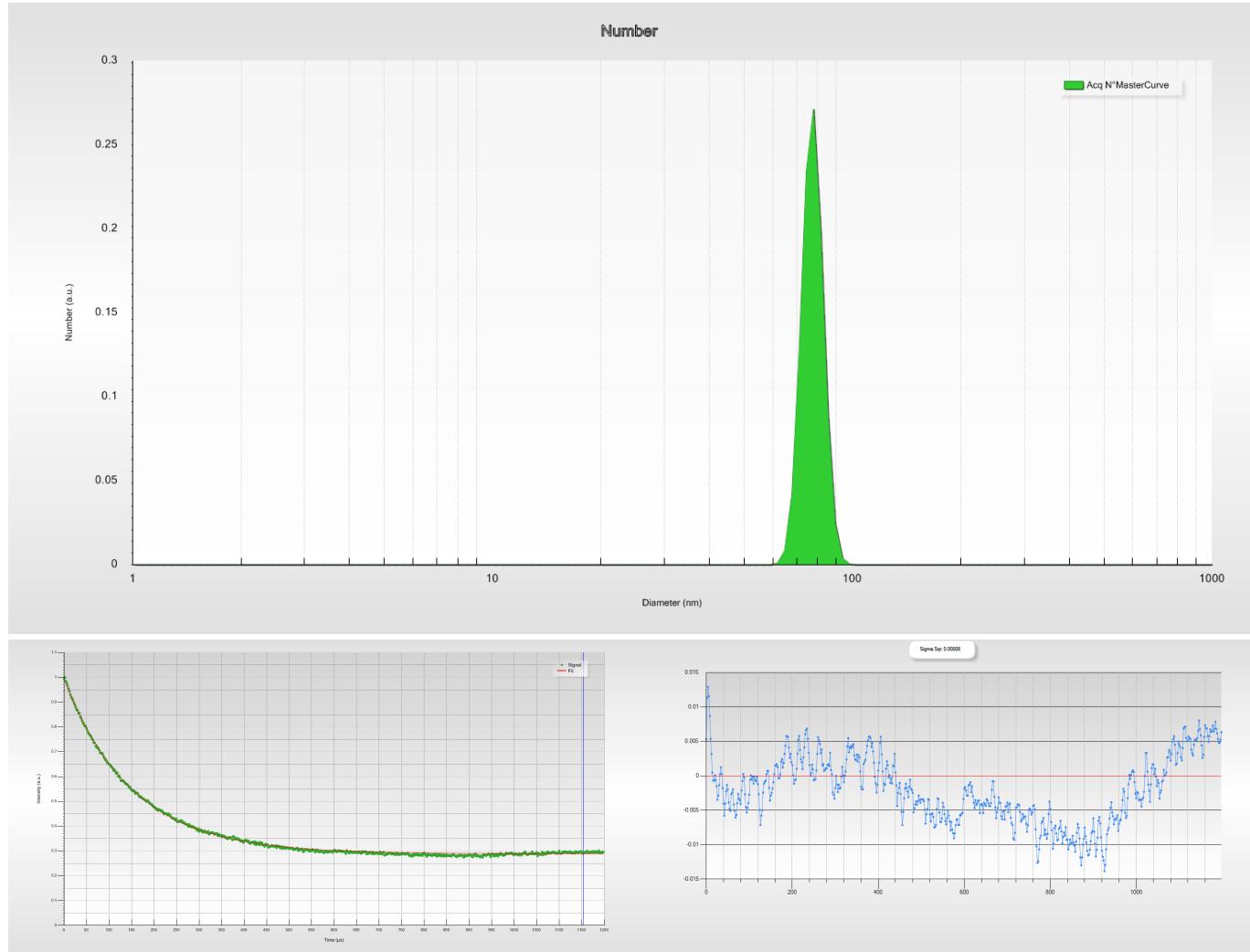


Distribution statistics

Di 10%: 74.39 nm	Di 50%: 77.91 nm	Di 90%: 85.45 nm
Mean Intensity: 78.95 nm		
PDI : 0.01368		Std Dev: 5.85%

Detected size(s)

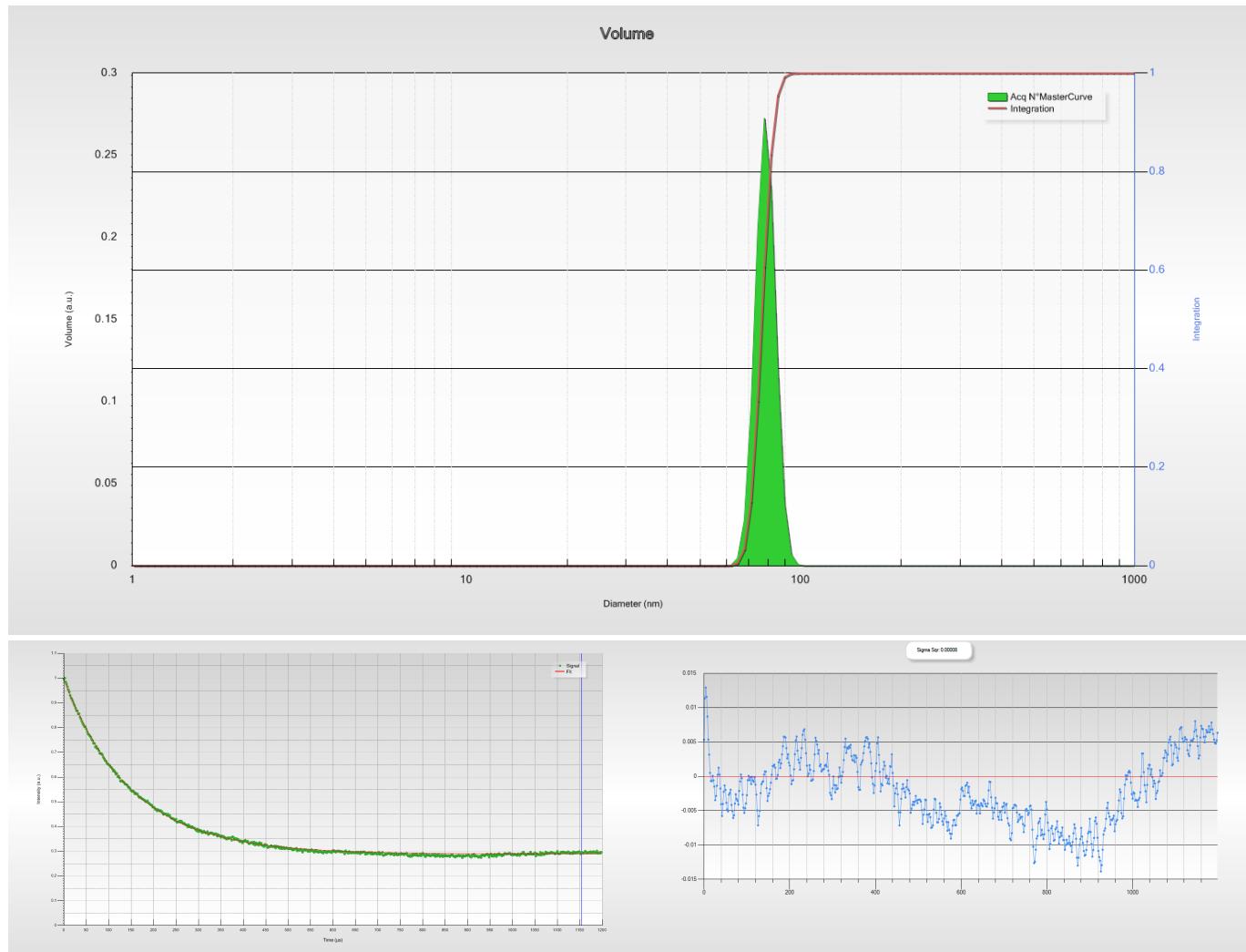
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.41	0.7	3313.84	62.69254E-013

**Distribution statistics**

Dn 10%: 71.02 nm	Dn 50%: 77.91 nm	Dn 90%: 85.45 nm
Mean Number: 77.43 nm		
PDI : 0.01368		Std Dev: 5.85%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.41	0.7	3313.84	62.69254E-013

**Distribution statistics**

D_v 10%: 71.02 nm
Mean Volume: 78.47 nm
PDI : 0.01368

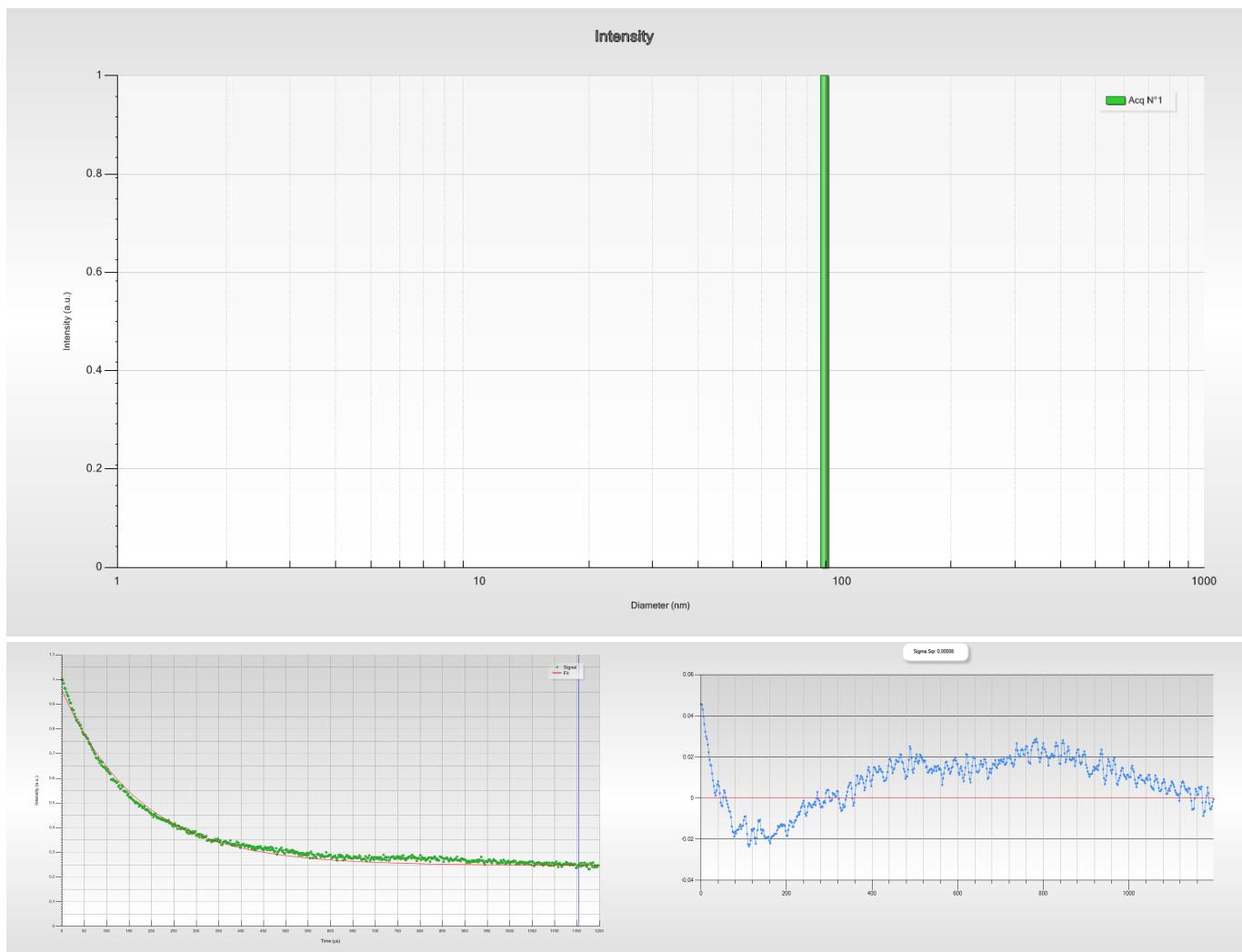
D_v 50%: 77.91 nm

D_v 90%: 85.45 nm

Std Dev: 5.85%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.41	0.7	3313.84	62.69254E-013



Dispersion statistics

Di 10%: 89.5 nm
Mean Intensity: 89.5 nm

Di 50%: 89.5 nm

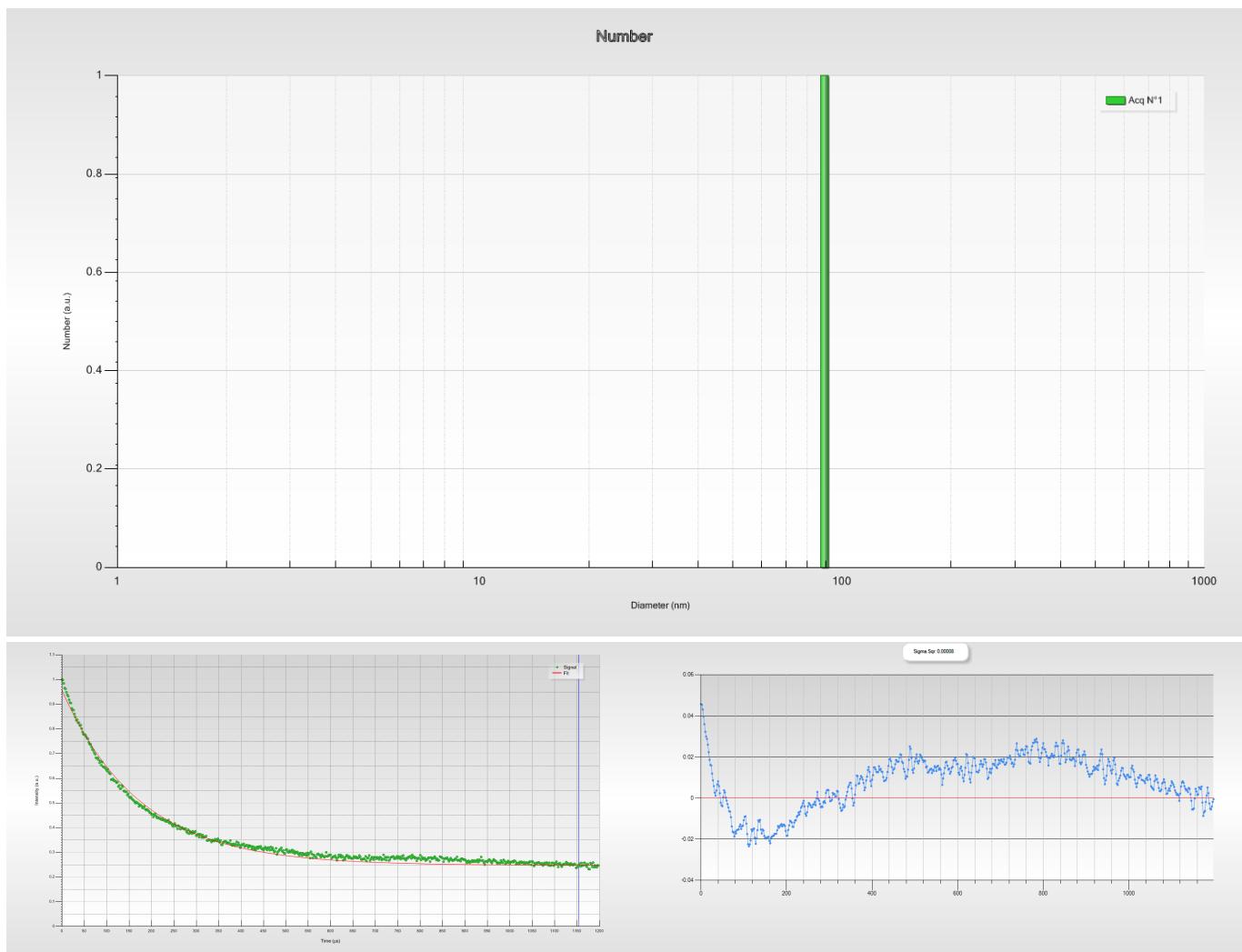
Di 90%: 89.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
90.7	0.84	2870.37	54.30269E-013

Dispersion datas

Size (nm)	Intensity
89.5	1



Dispersion statistics

Dn 10%: 89.5 nm
Mean Number: 89.5 nm

Dn 50%: 89.5 nm

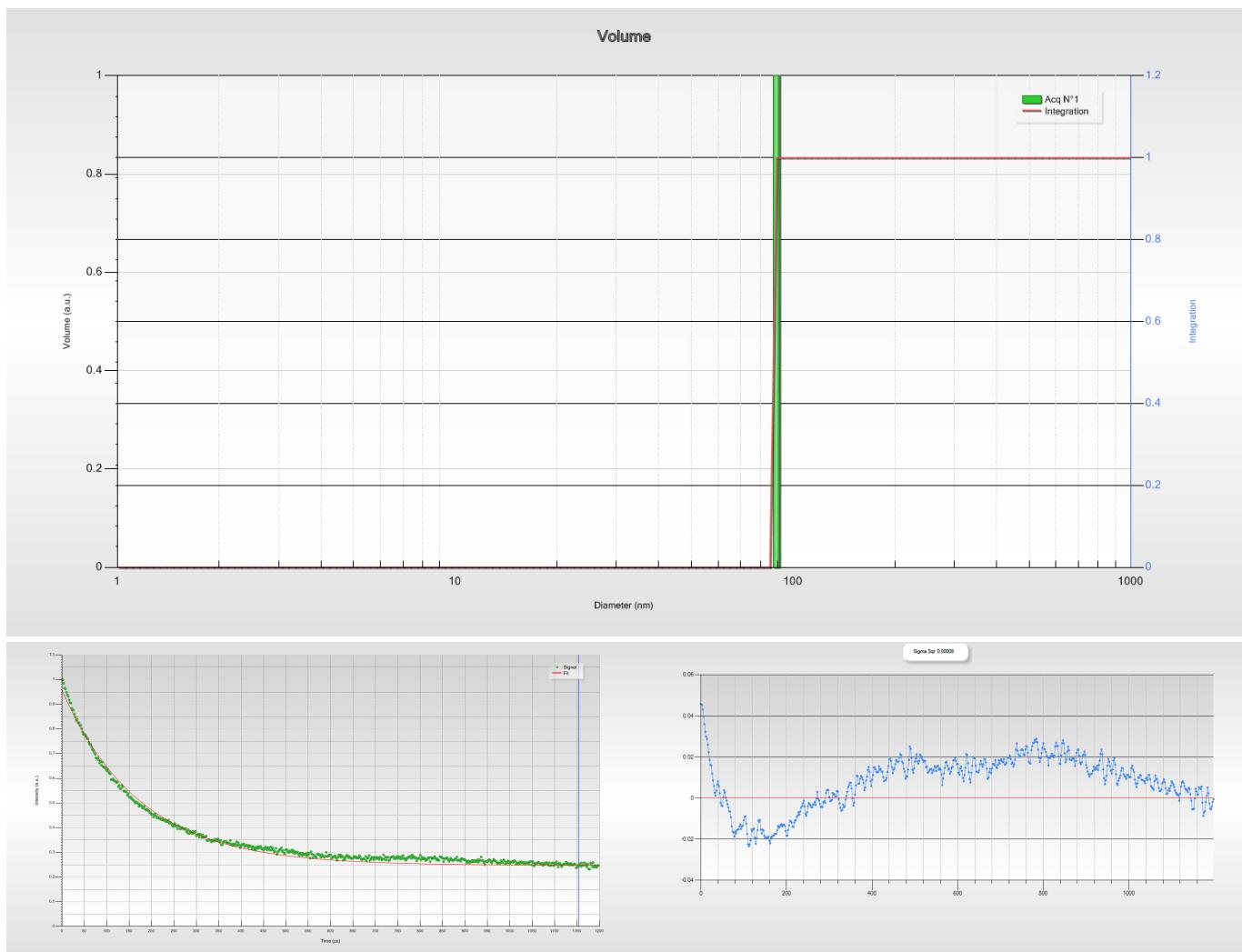
Dn 90%: 89.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
90.7	0.84	2870.37	54.30269E-013

Dispersion datas

Size (nm)	Number
89.5	1



Dispersion statistics

Dv 10%: 89.5 nm
Mean Volume: 89.5 nm

Dv 50%: 89.5 nm

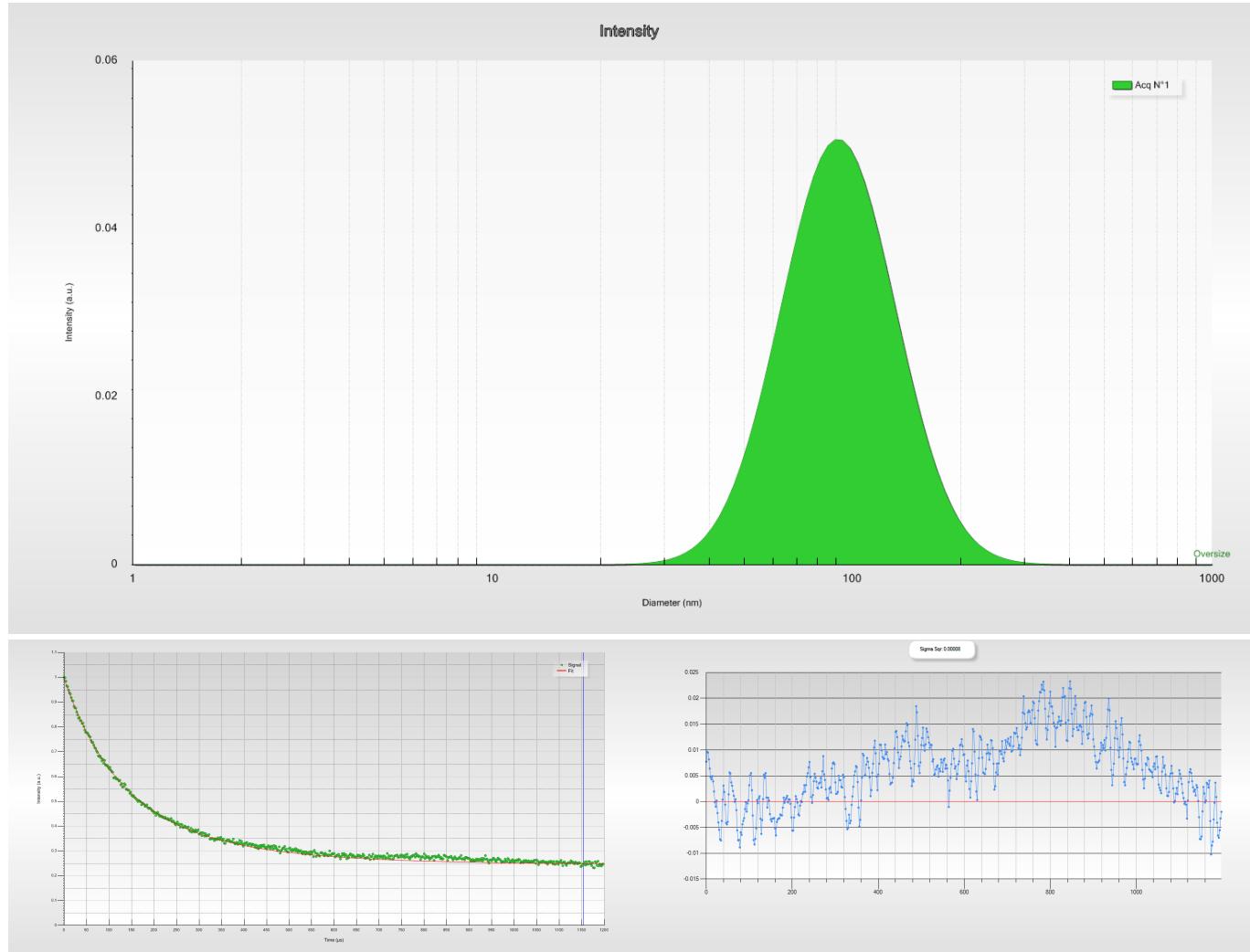
Dv 90%: 89.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
90.7	0.84	2870.37	54.30269E-013

Dispersion datas

Size (nm)	Volume
89.5	1

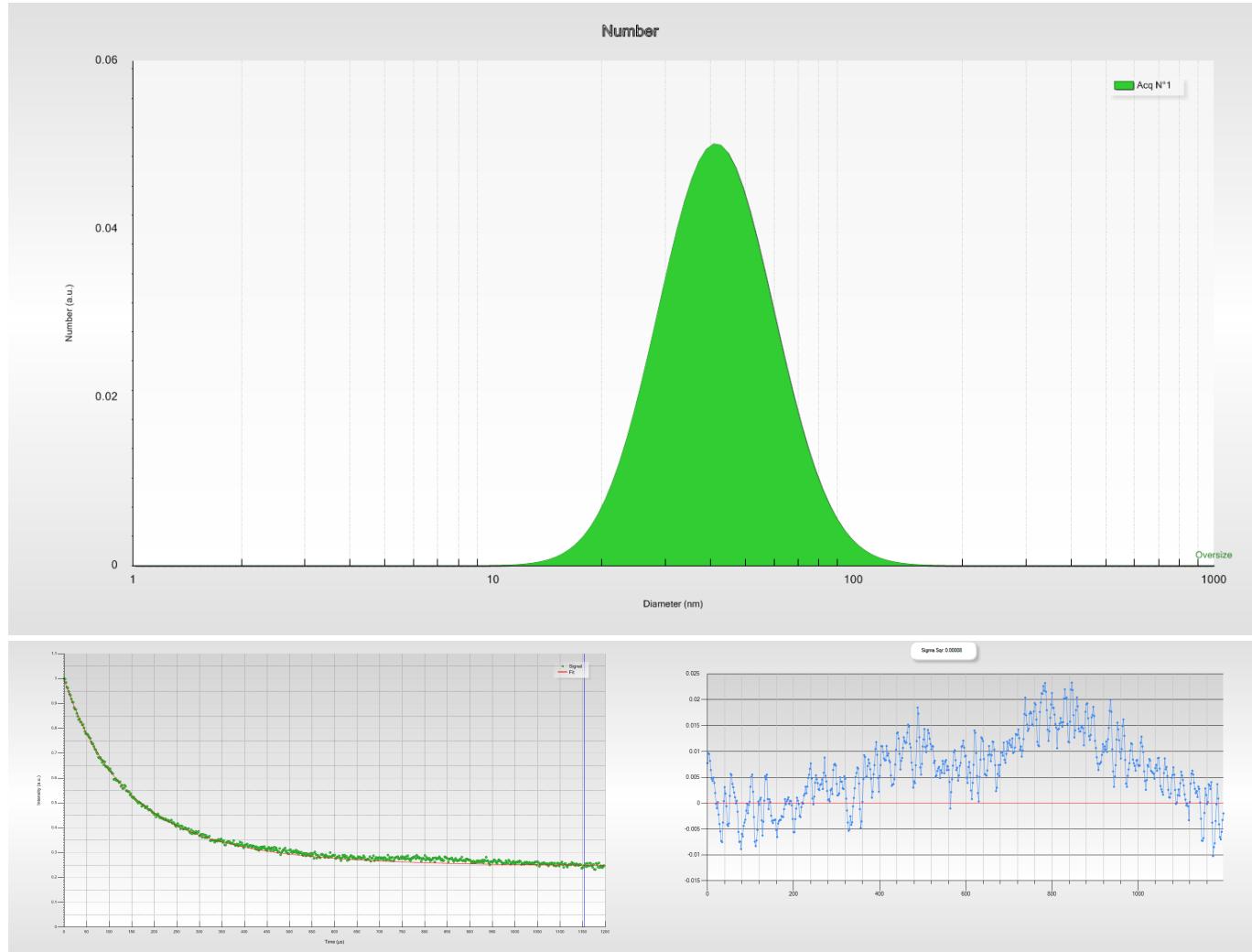


Distribution statistics

Di 10%: 56.36 nm **Di 50%:** 89.5 nm **Di 90%:** 142.11 nm
Mean Intensity: 97.37 nm **Std Dev:** 37.64%
PDI : 0.56661

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
74.85	0.75	3478.11	65.8003E-013

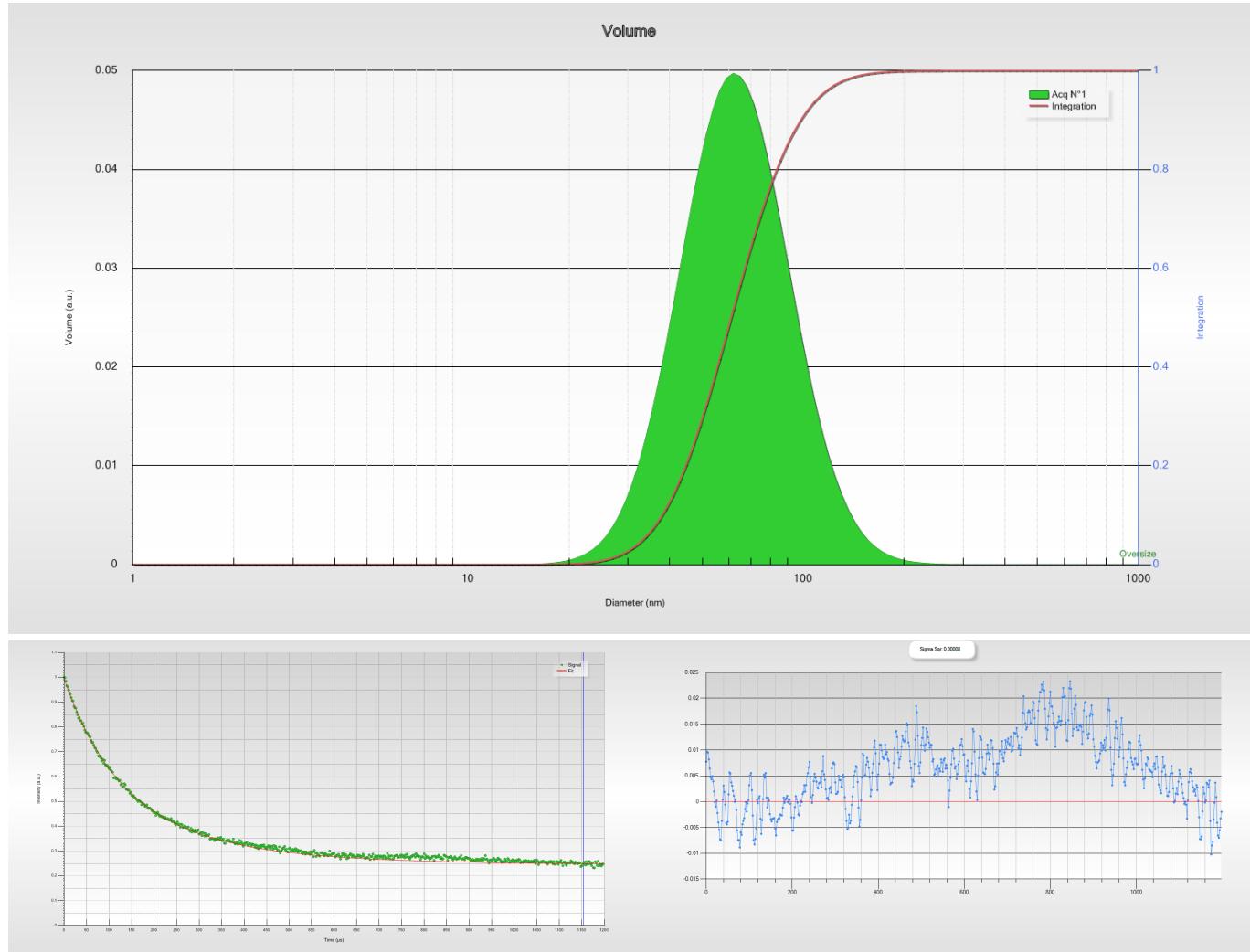


Distribution statistics

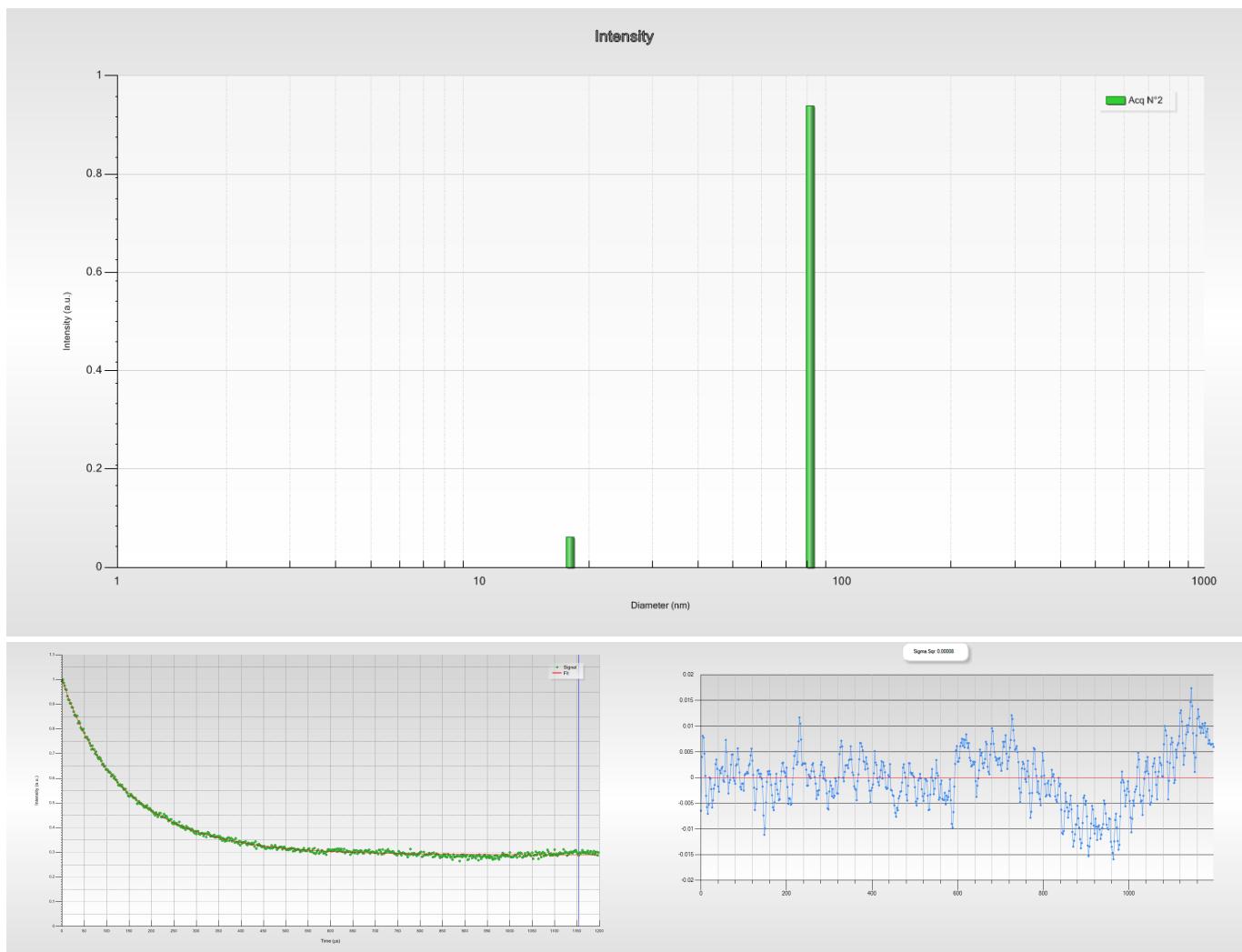
Dn 10%: 25.68 nm **Dn 50%:** 40.78 nm **Dn 90%:** 67.81 nm
Mean Number: 44.35 nm **Std Dev:** 37.64%
PDI : 0.56661

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
74.85	0.75	3478.11	65.8003E-013

**Distribution statistics****Dv 10%:** 38.94 nm**Mean Volume:** 66.96 nm**PDI** : 0.56661**Dv 50%:** 61.83 nm**Dv 90%:** 102.81 nm**Std Dev:** 37.64%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
74.85	0.75	3478.11	65.8003E-013



Dispersion statistics

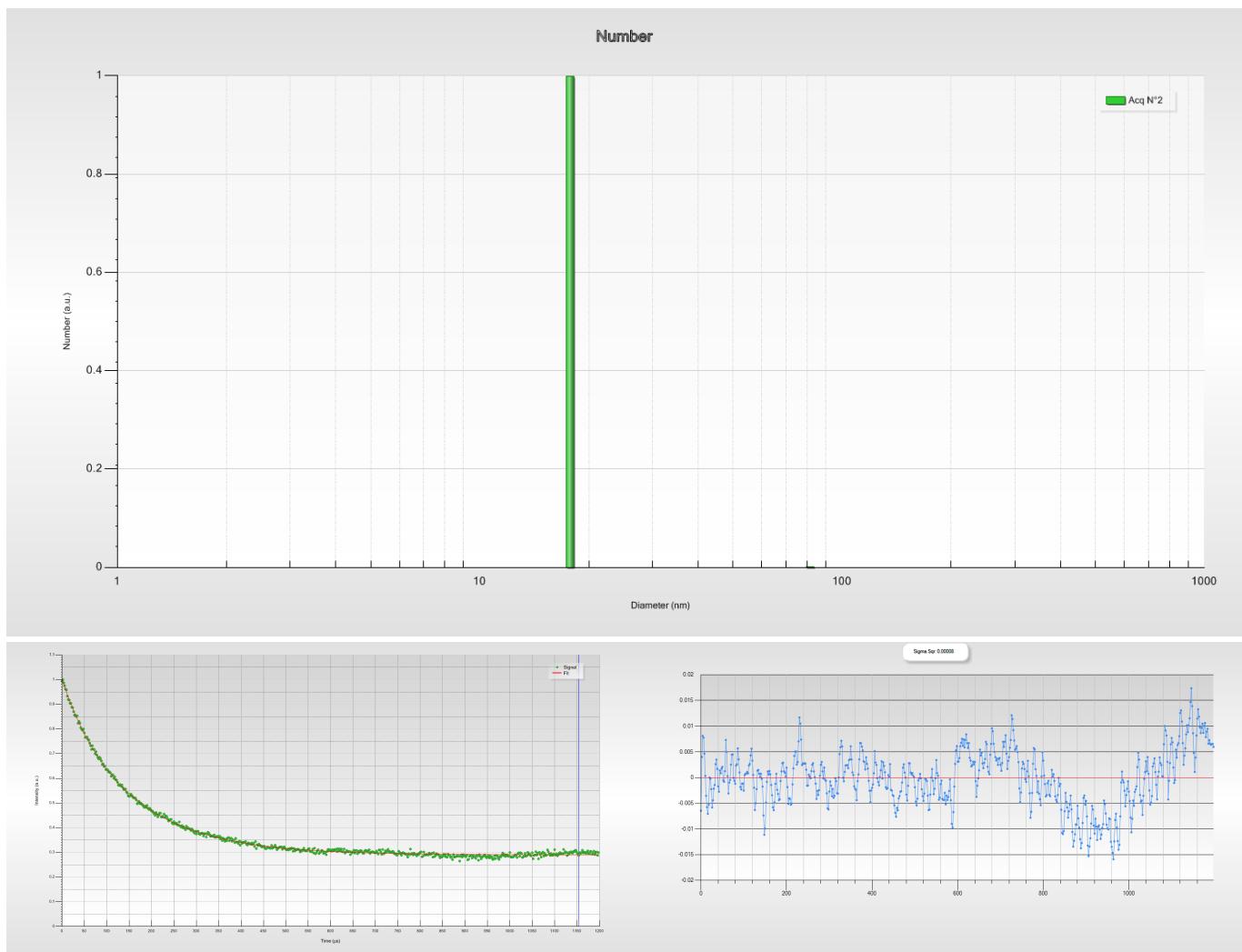
Di 10%: 81.59 nm **Di 50%:** 81.59 nm **Di 90%:** 81.59 nm
Mean Intensity: 77.67 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
17.5	0.05	14843.99	28.08242E-012
82.25	0.79	3158.45	59.75267E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
17.74	0.06	81.59	0.94



Dispersion statistics

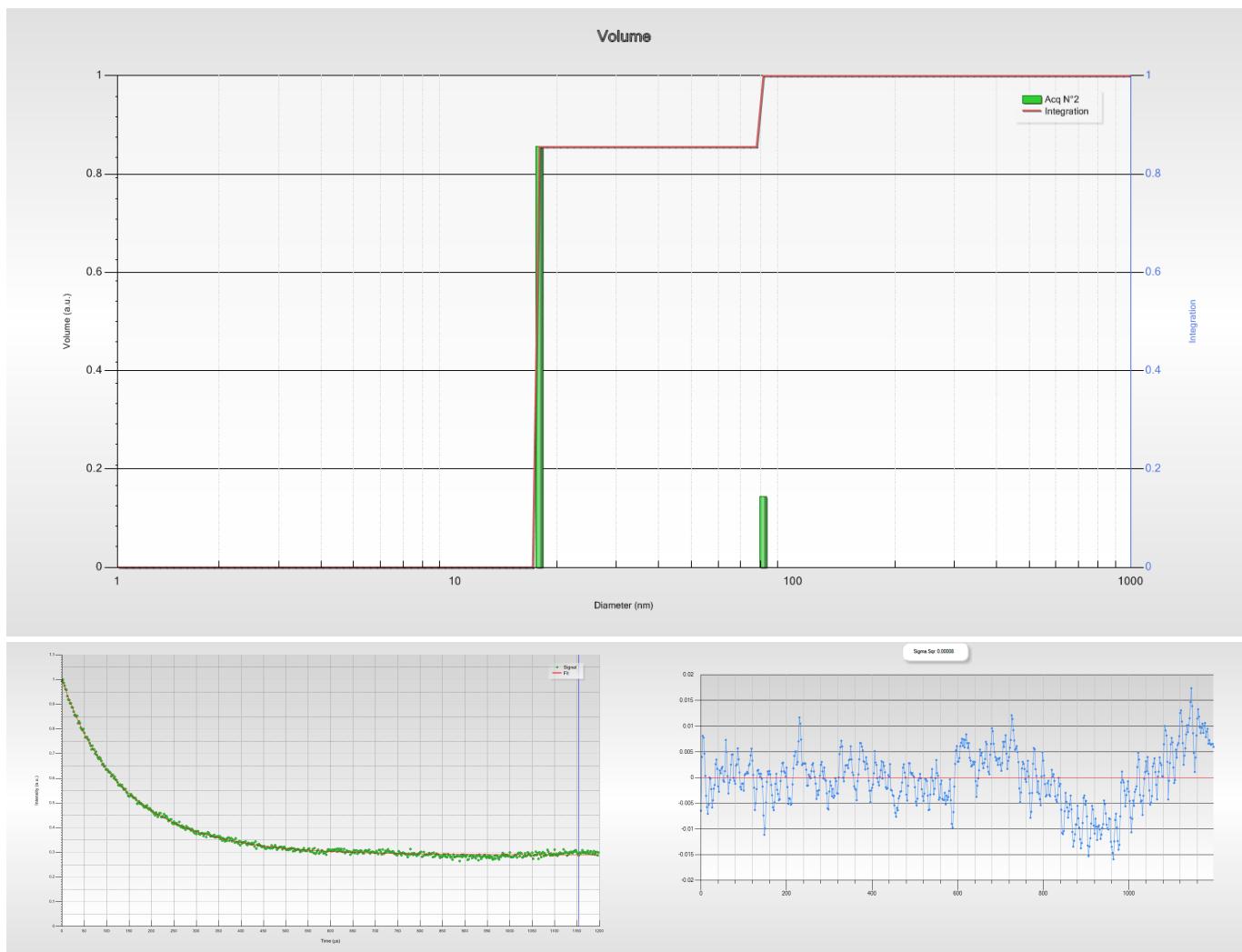
Dn 10%: 17.74 nm Dn 50%: 17.74 nm Dn 90%: 17.74 nm
 Mean Number: 17.85 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
17.5	0.05	14843.99	28.08242E-012
82.25	0.79	3158.45	59.75267E-013

Dispersion data

Size (nm)	Number
17.74	1



Dispersion statistics

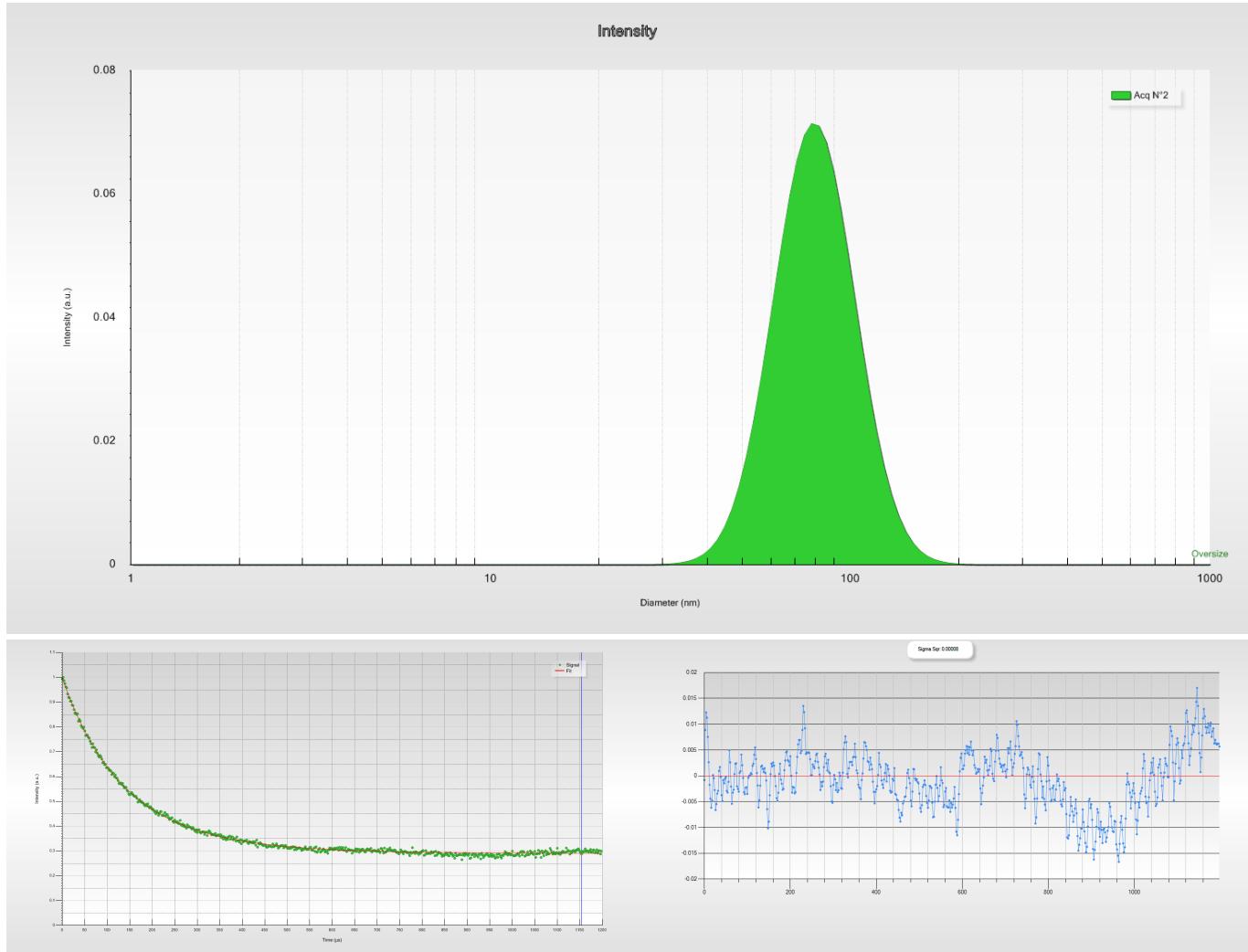
D_v 10%: 17.74 nm **D_v 50%:** 17.74 nm **D_v 90%:** 81.59 nm
Mean Volume: 26.96 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
17.5	0.05	14843.99	28.08242E-012
82.25	0.79	3158.45	59.75267E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
17.74	0.86	81.59	0.14



Distribution statistics

Di 10%: 56.36 nm

Di 50%: 77.91 nm

Di 90%: 107.68 nm

Mean Intensity: 81.8 nm

PDI : 0.27483

Std Dev: 26.21%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
71.6	0.71	3628.08	68.63732E-013

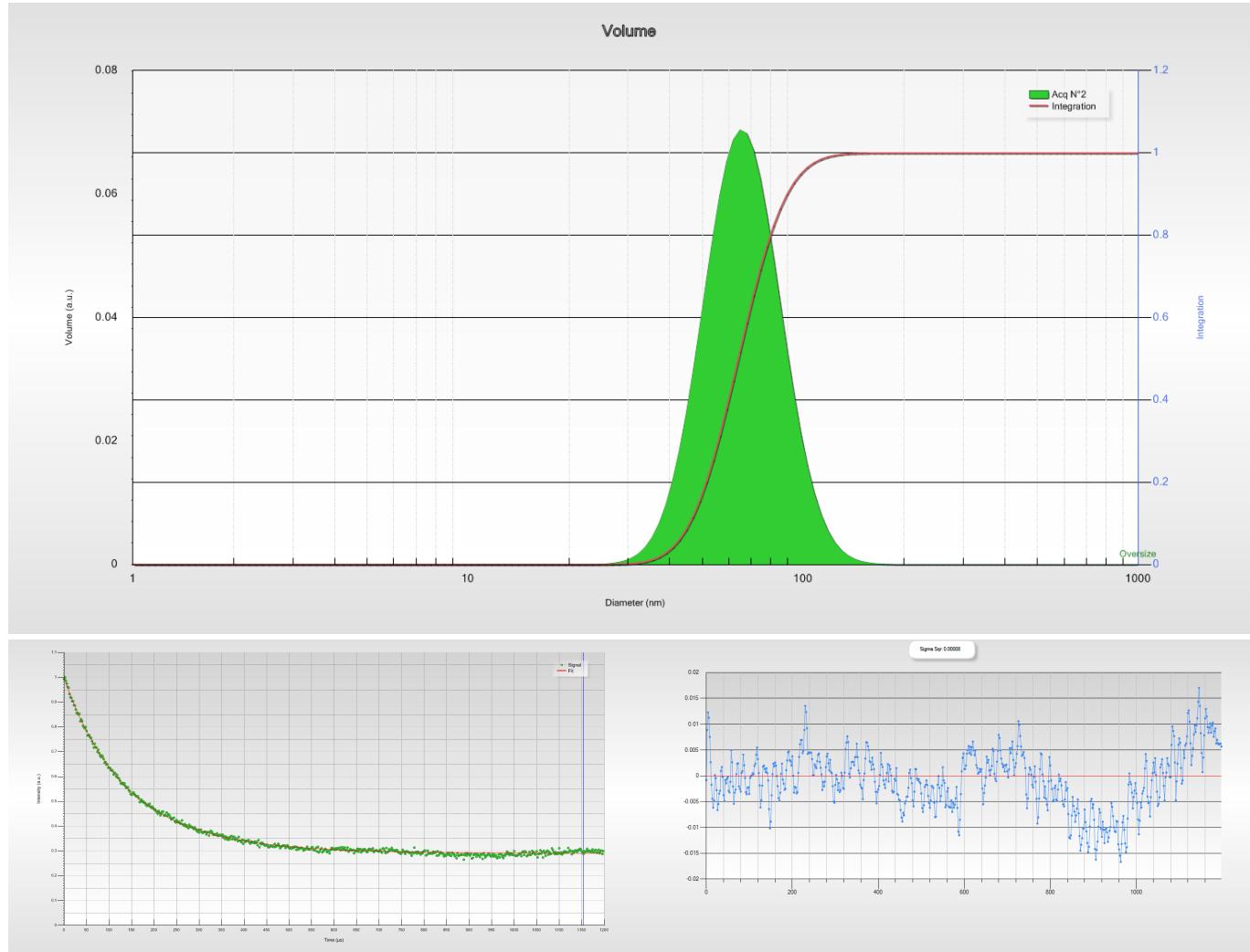


Distribution statistics

Dn 10%: 38.94 nm **Dn 50%:** 53.82 nm **Dn 90%:** 74.39 nm
Mean Number: 55.23 nm **Std Dev:** 26.21%
PDI : 0.27483

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
71.6	0.71	3628.08	68.63732E-013

**Distribution statistics**

D_v 10%: 46.85 nm
Mean Volume: 67.82 nm
PDI : 0.27483

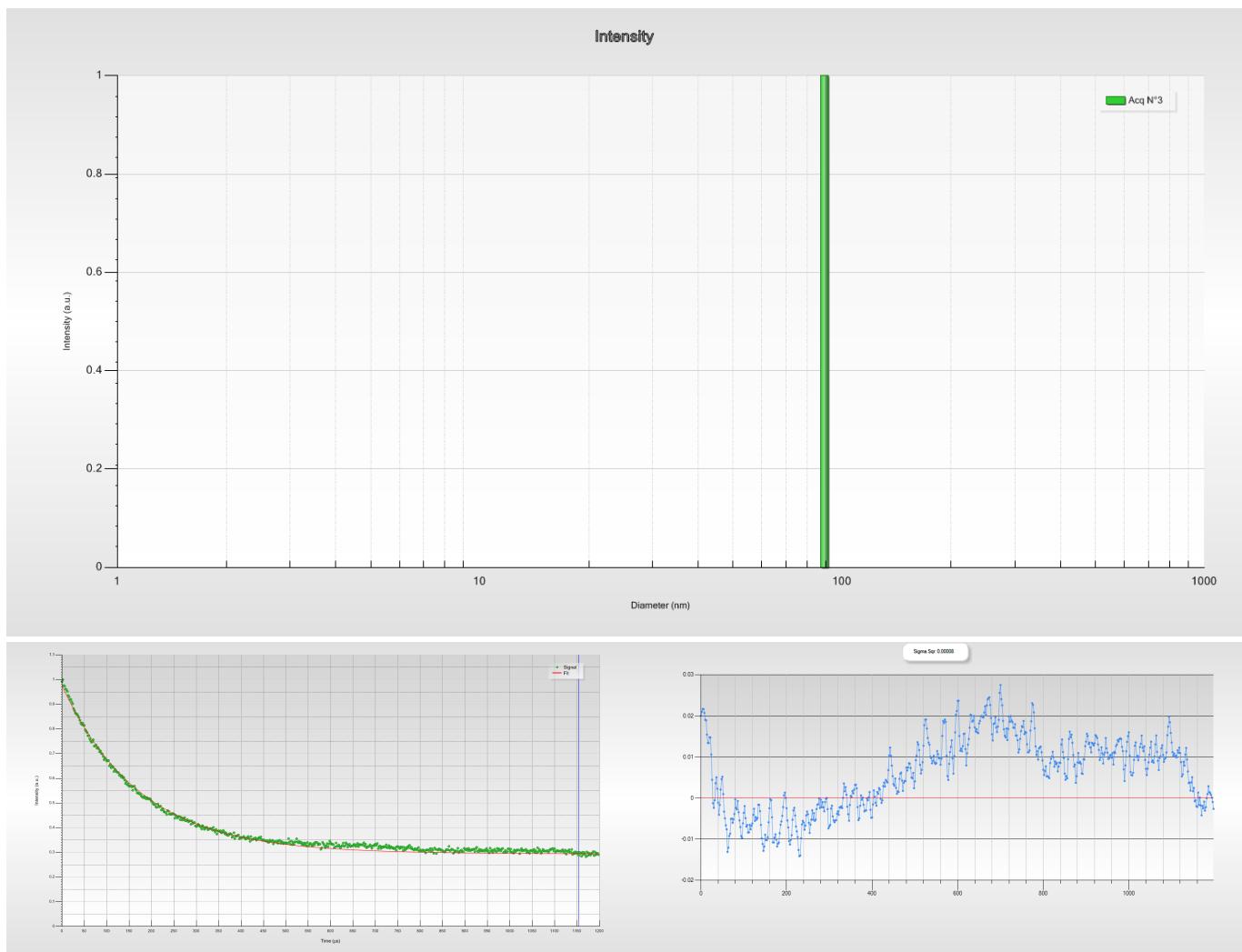
D_v 50%: 64.75 nm

D_v 90%: 93.73 nm

Std Dev: 26.21%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
71.6	0.71	3628.08	68.63732E-013



Dispersion statistics

Di 10%: 89.5 nm
Mean Intensity: 89.5 nm

Di 50%: 89.5 nm

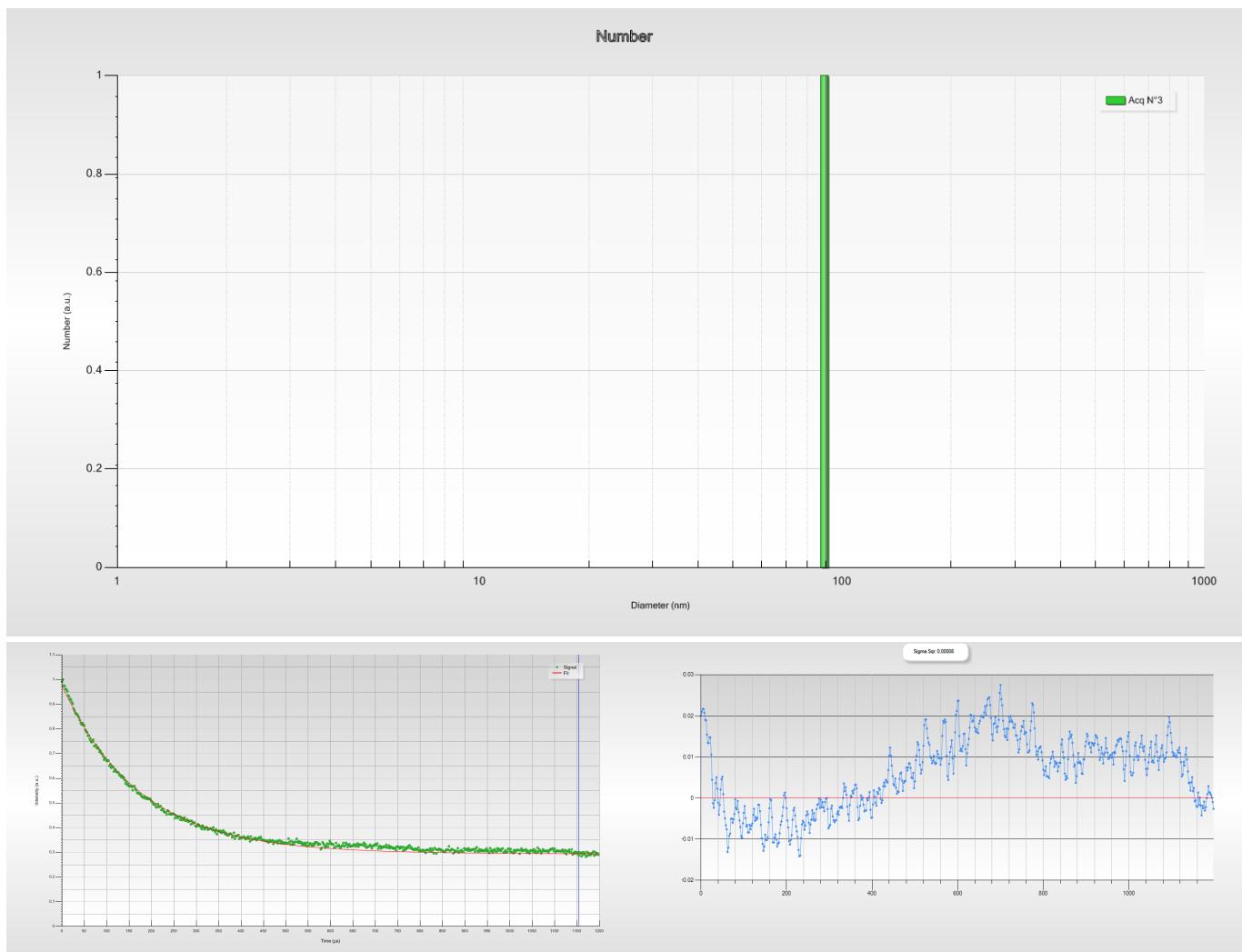
Di 90%: 89.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
90.45	0.83	2872.02	54.33402E-013

Dispersion datas

Size (nm)	Intensity
89.5	1



Dispersion statistics

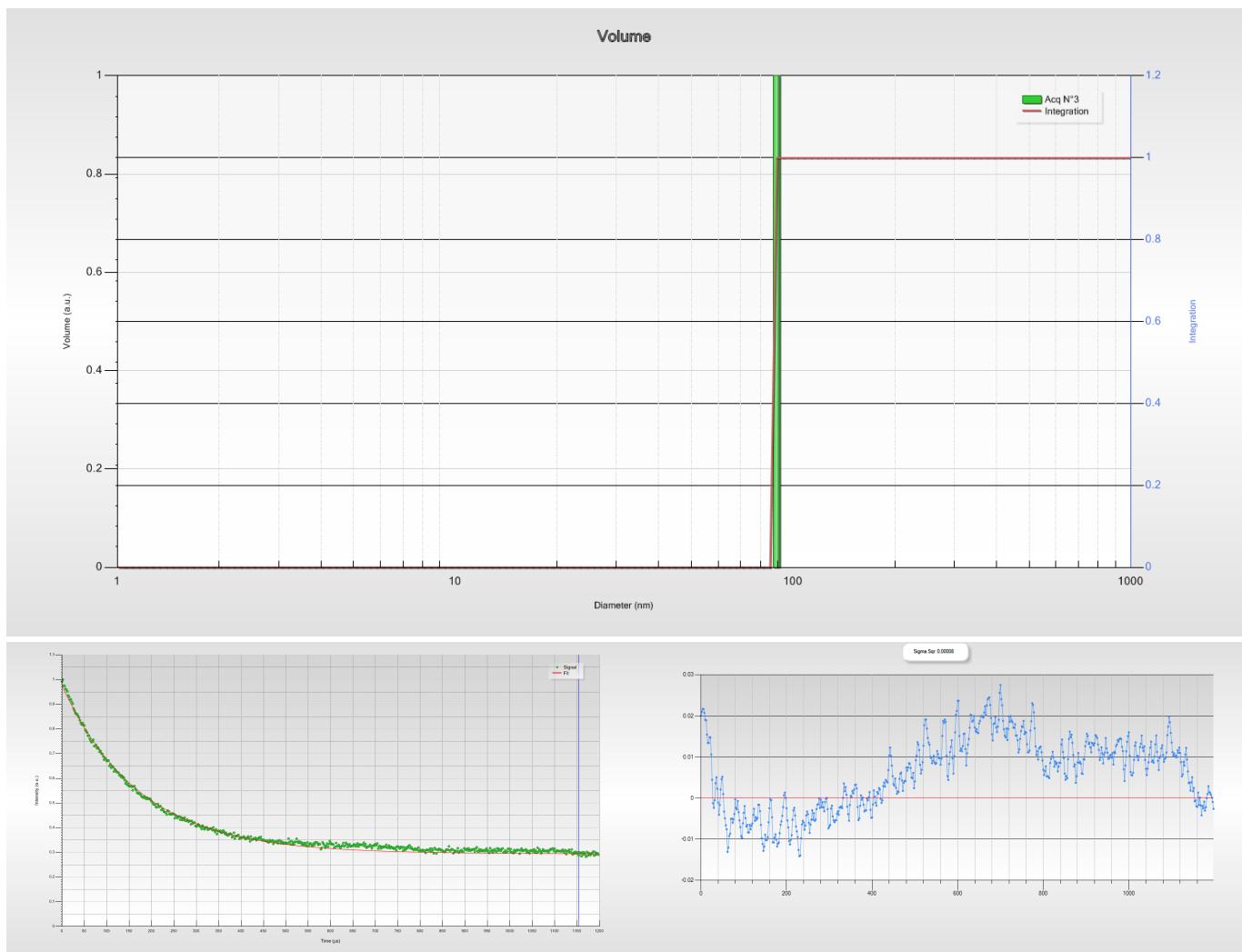
Dn 10%: 89.5 nm **Dn 50%:** 89.5 nm **Dn 90%:** 89.5 nm
Mean Number: 89.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
90.45	0.83	2872.02	54.33402E-013

Dispersion data

Size (nm)	Number
89.5	1



Dispersion statistics

D_v 10%: 89.5 nm
Mean Volume: 89.5 nm

D_v 50%: 89.5 nm

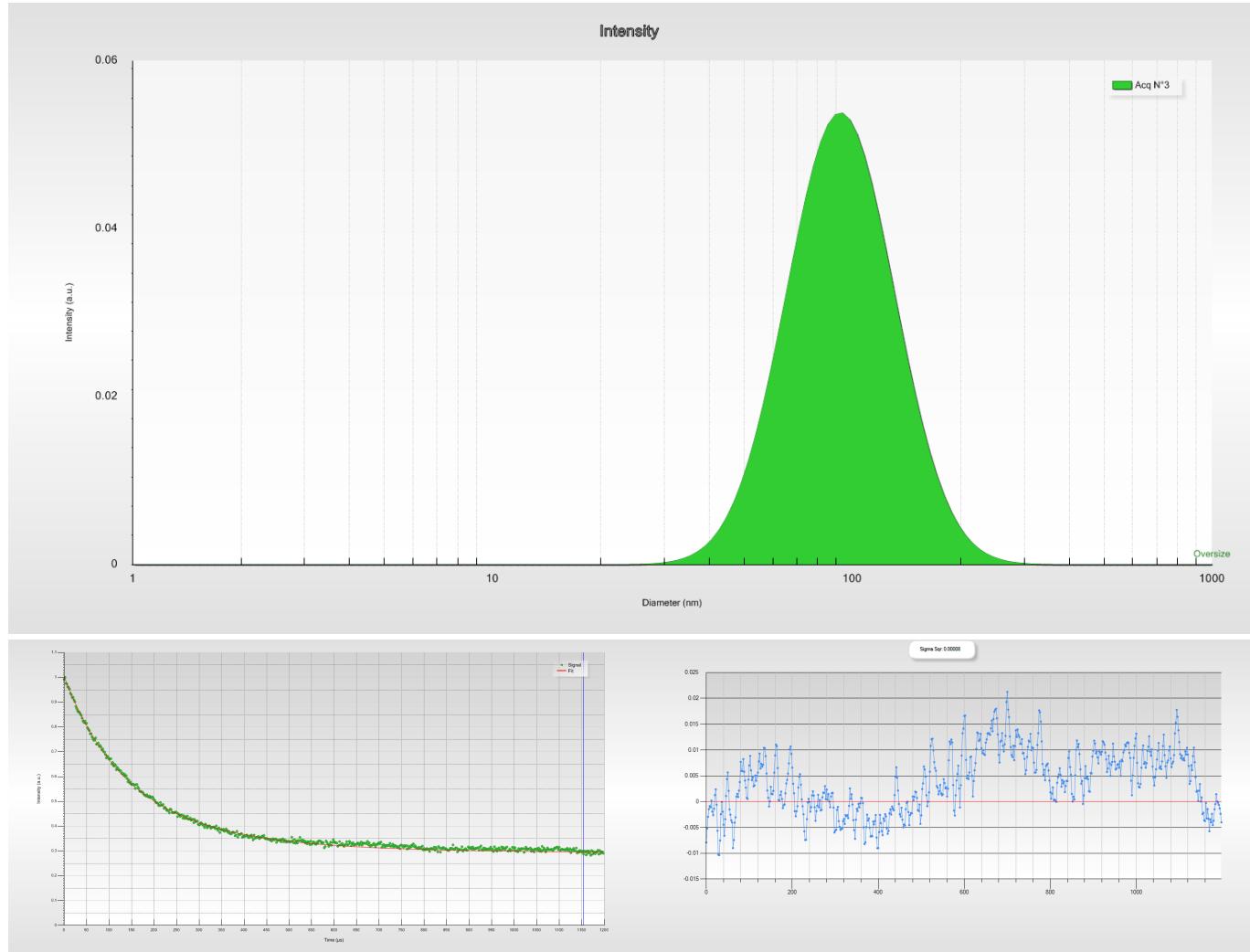
D_v 90%: 89.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
90.45	0.83	2872.02	54.33402E-013

Dispersion datas

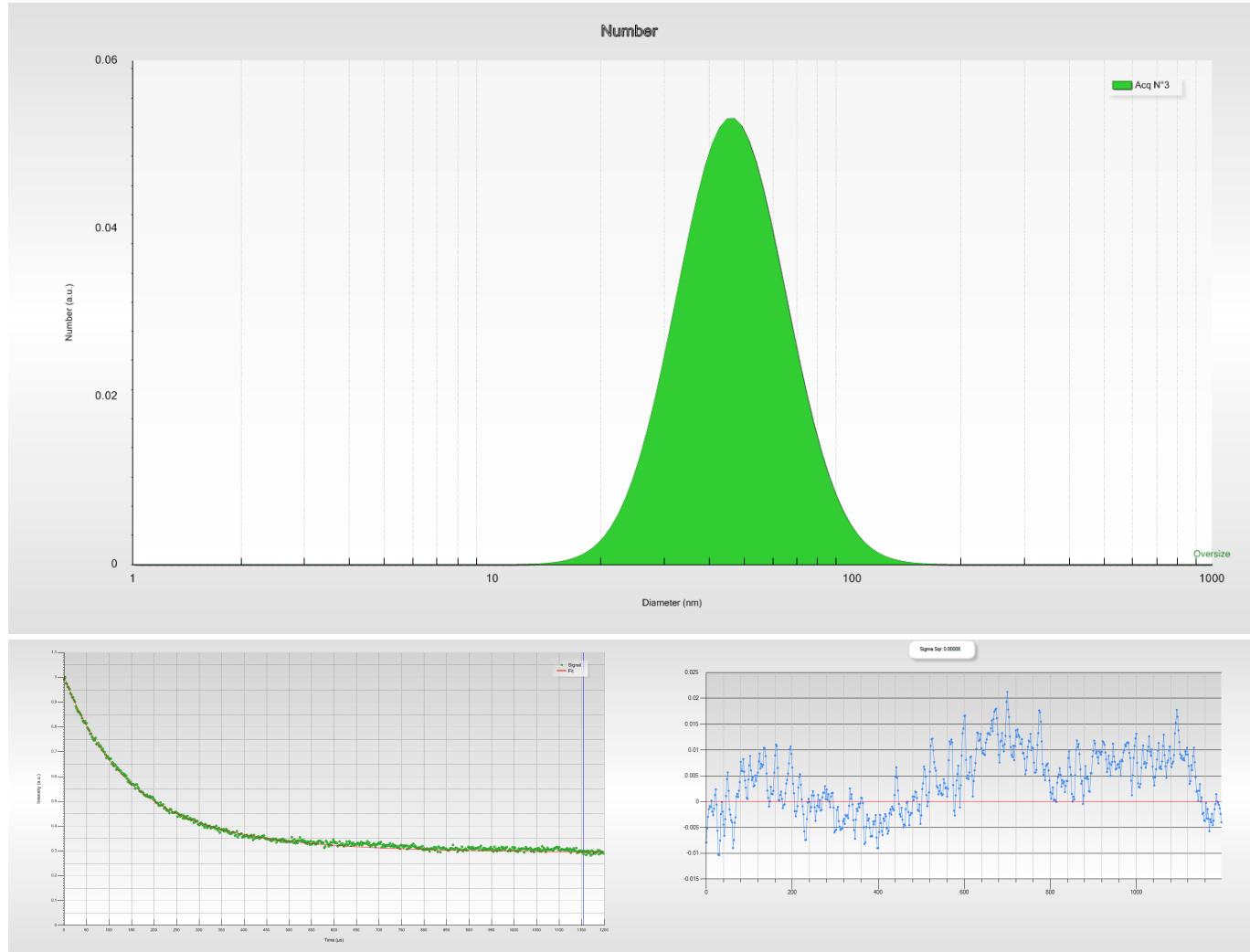
Size (nm)	Volume
89.5	1

**Distribution statistics**

Di 10%: 59.03 nm	Di 50%: 93.73 nm	Di 90%: 142.11 nm
Mean Intensity: 98.06 nm		
PDI : 0.49845		Std Dev: 35.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.52	0.71	3351.4	63.40309E-013



Distribution statistics

Dn 10%: 29.5 nm
Mean Number: 48.9 nm
PDI : 0.49845

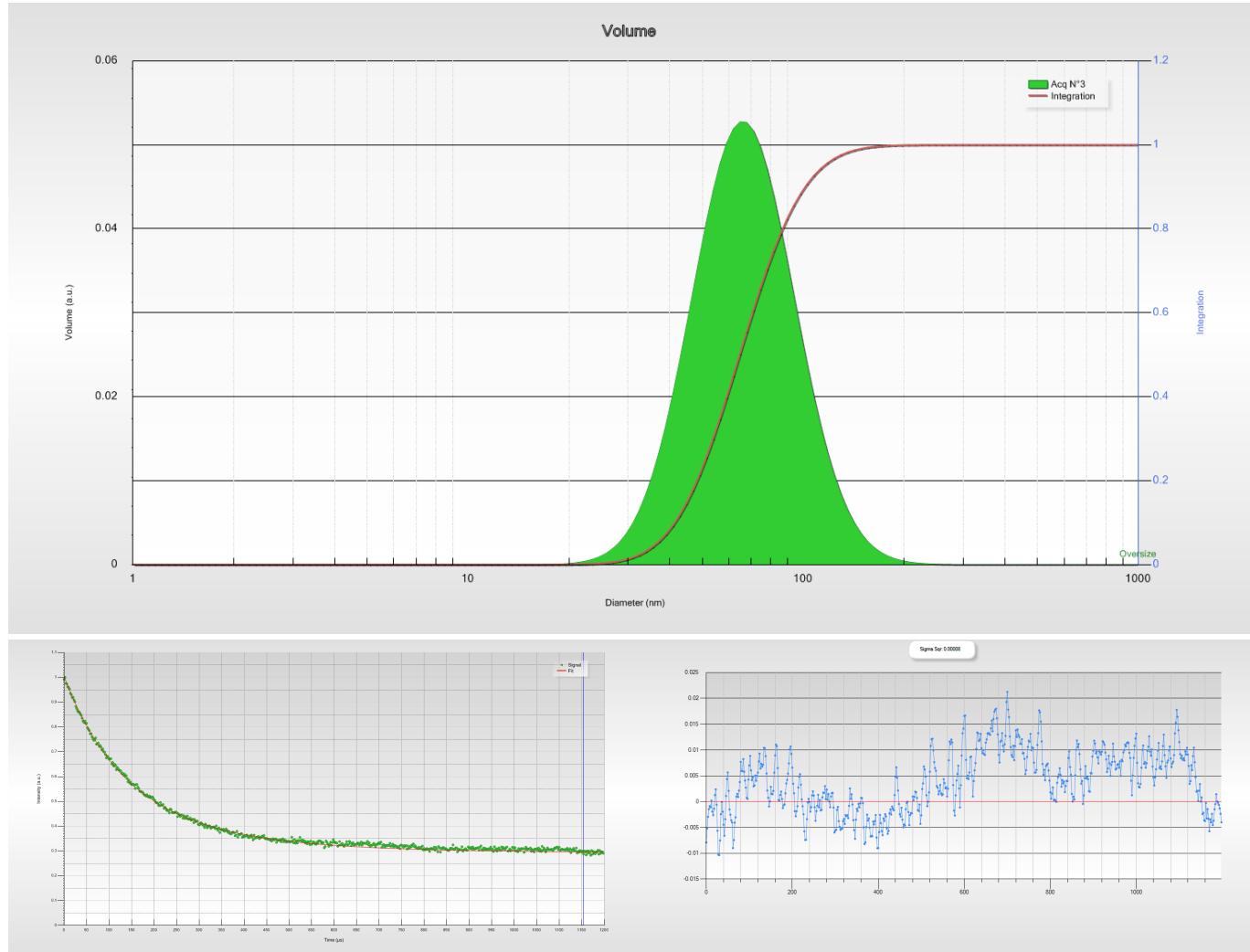
Dn 50%: 46.85 nm

Dn 90%: 71.02 nm

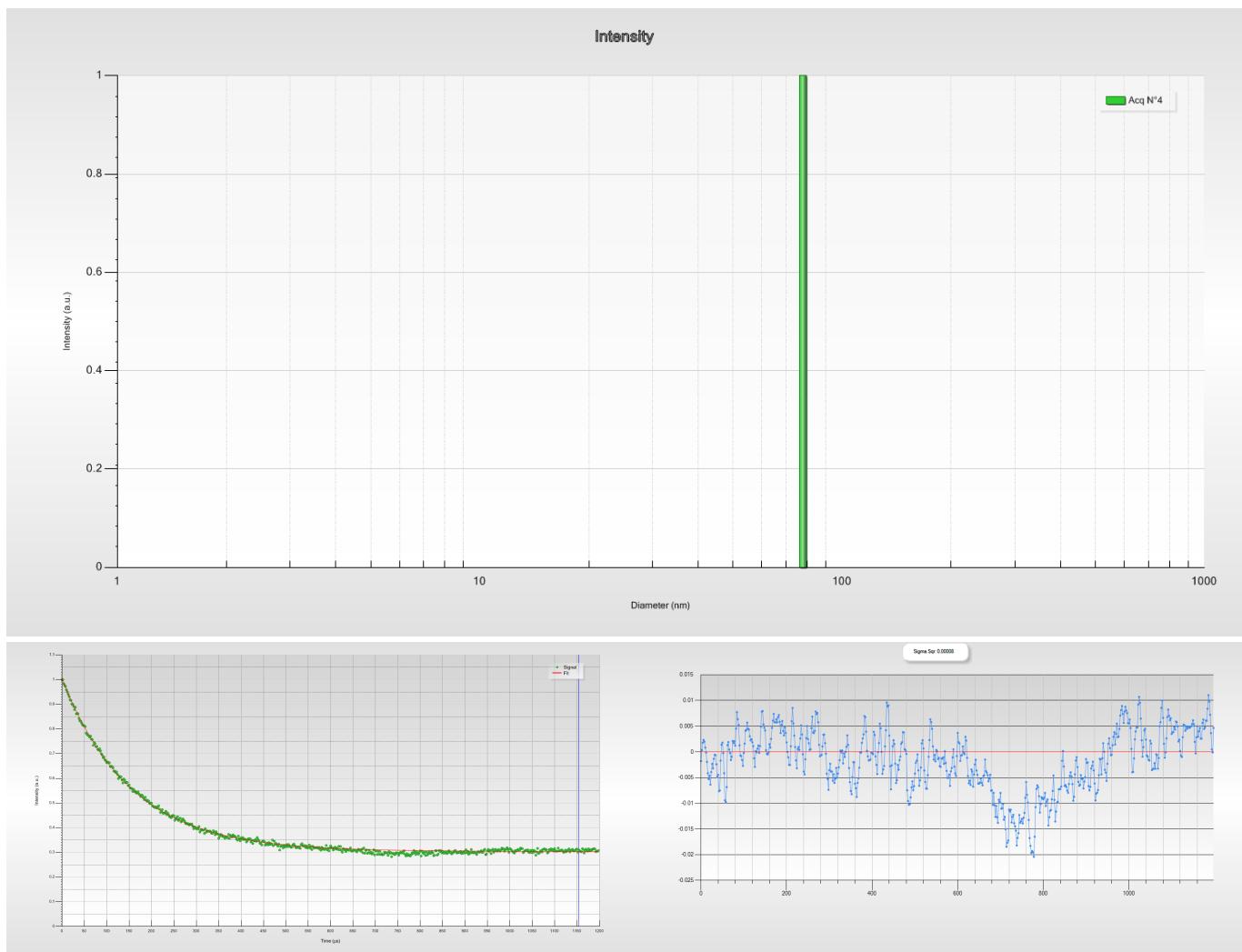
Std Dev: 35.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
77.52	0.71	3351.4	63.40309E-013

**Distribution statistics****D_v 10%:** 42.71 nm**Mean Volume:** 70.47 nm**PDI** : 0.49845**D_v 50%:** 64.75 nm**D_v 90%:** 102.81 nm**Std Dev:** 35.3%**Detected size(s)**

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
77.52	0.71	3351.4	63.40309E-013



Dispersion statistics

Di 10%: 77.91 nm
Mean Intensity: 77.91 nm

Di 50%: 77.91 nm

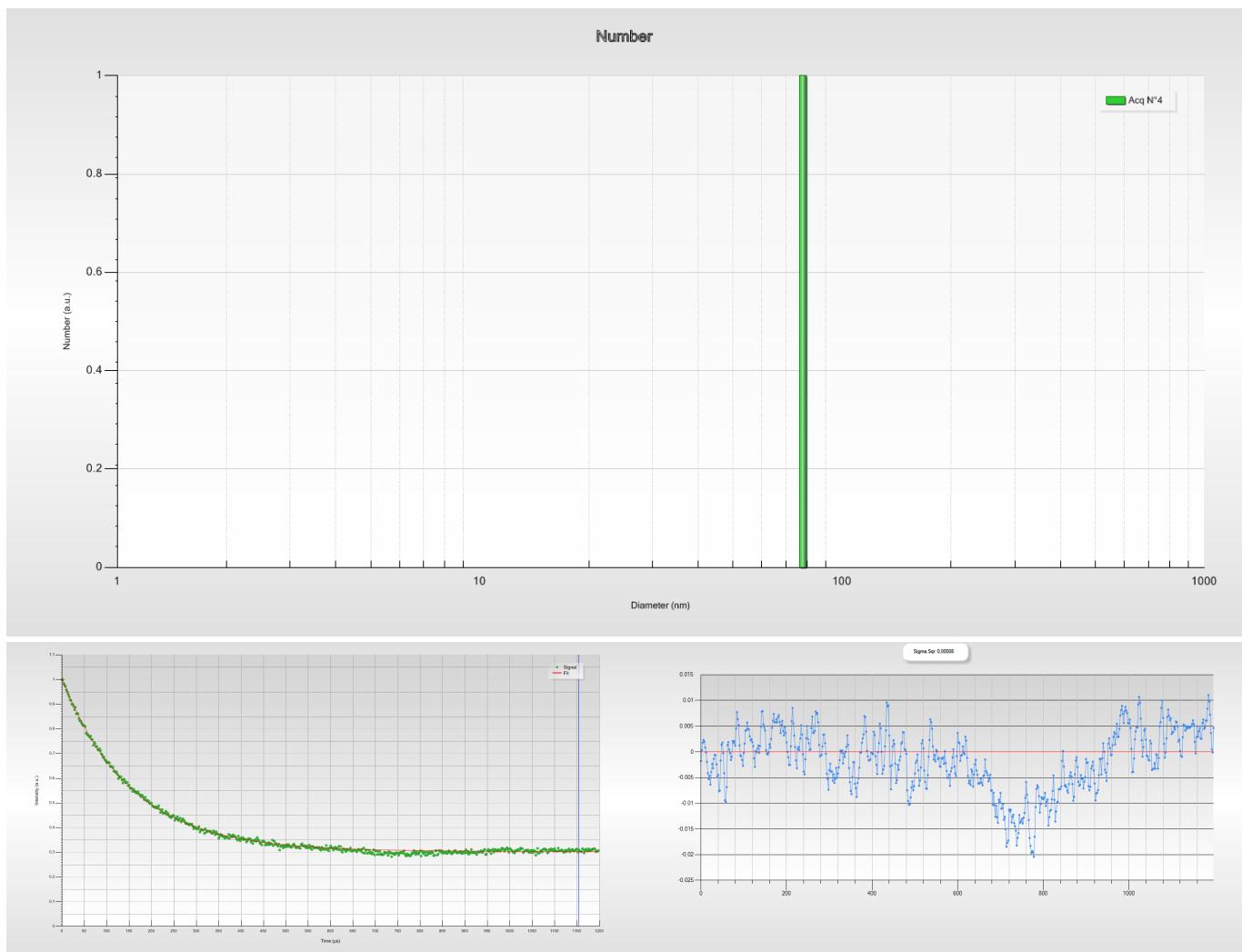
Di 90%: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
79.62	0.84	3262.98	61.7303E-013

Dispersion datas

Size (nm)	Intensity
77.91	1



Dispersion statistics

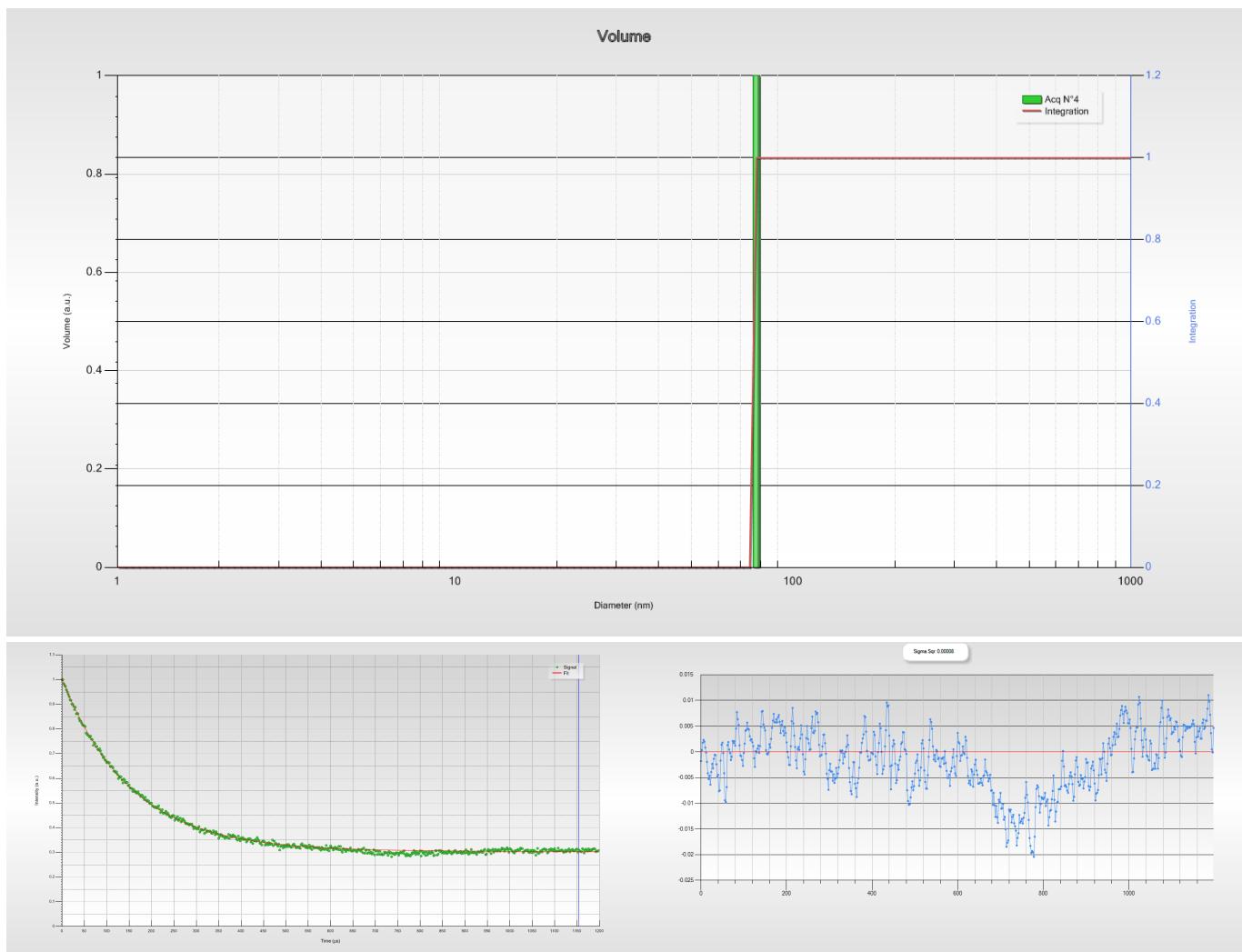
Dn 10%: 77.91 nm **Dn 50%: 77.91 nm** **Dn 90%: 77.91 nm**
Mean Number: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
79.62	0.84	3262.98	61.7303E-013

Dispersion datas

Size (nm)	Number
77.91	1



Dispersion statistics

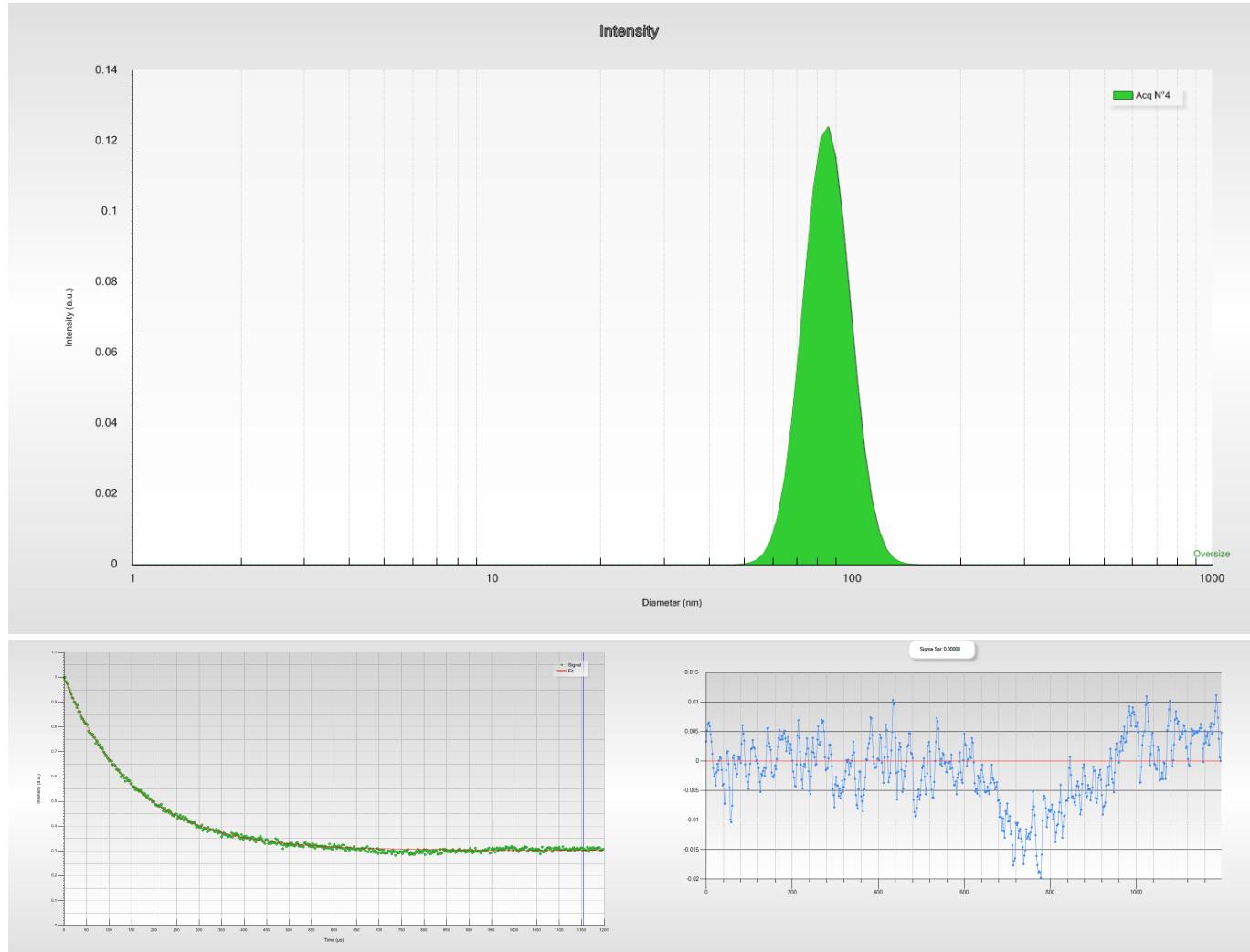
D_v 10%: 77.91 nm **D_v 50%:** 77.91 nm **D_v 90%:** 77.91 nm
Mean Volume: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
79.62	0.84	3262.98	61.7303E-013

Dispersion datas

Size (nm)	Volume
77.91	1

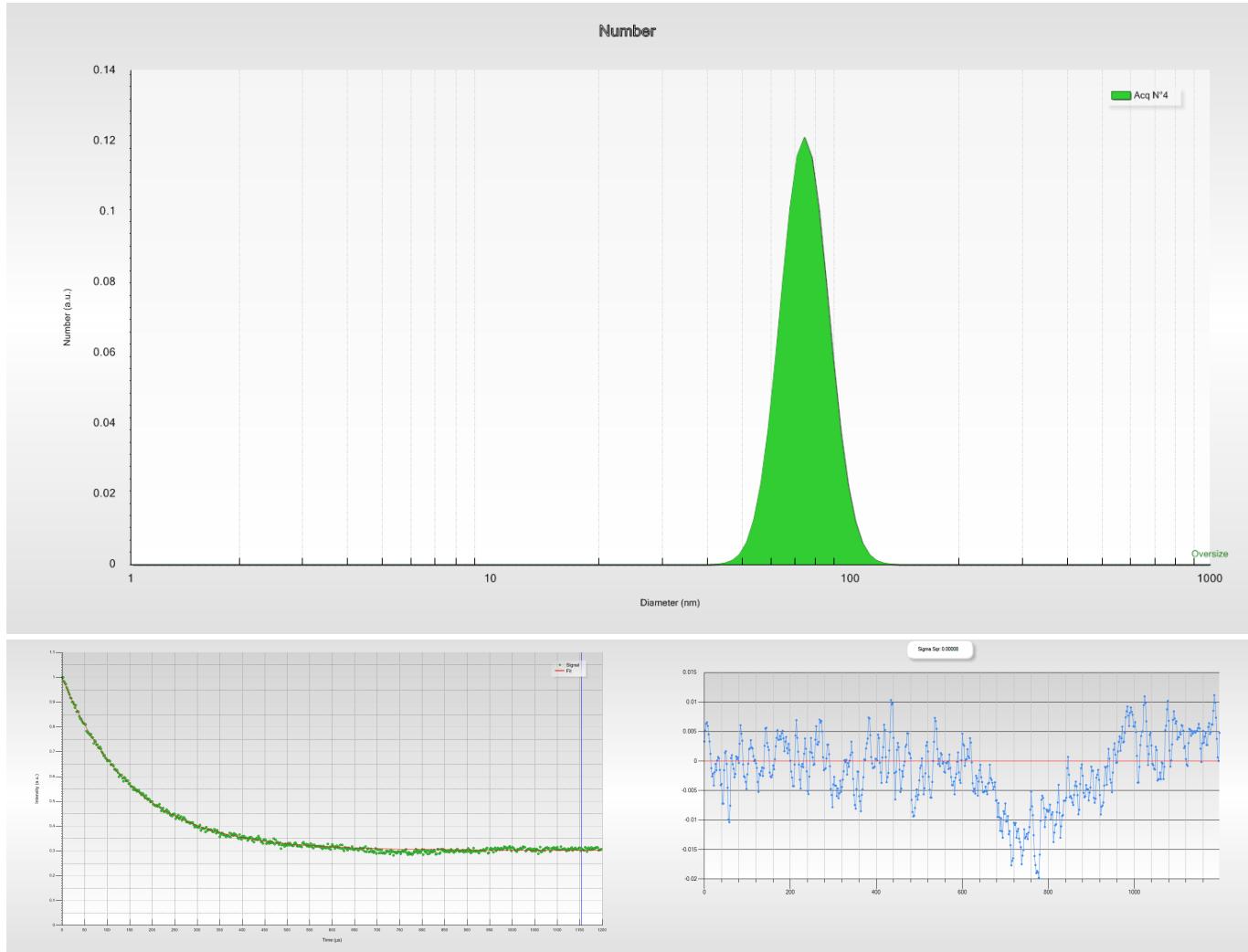


Distribution statistics

Di 10%: 71.02 nm **Di 50%:** 85.45 nm **Di 90%:** 102.81 nm
Mean Intensity: 85.49 nm **Std Dev:** 14.9%
PDI : 0.08883

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.8	0.69	3175.99	60.08468E-013

**Distribution statistics**

Dn 10%: 61.83 nm
Mean Number: 75.2 nm
PDI : 0.08883

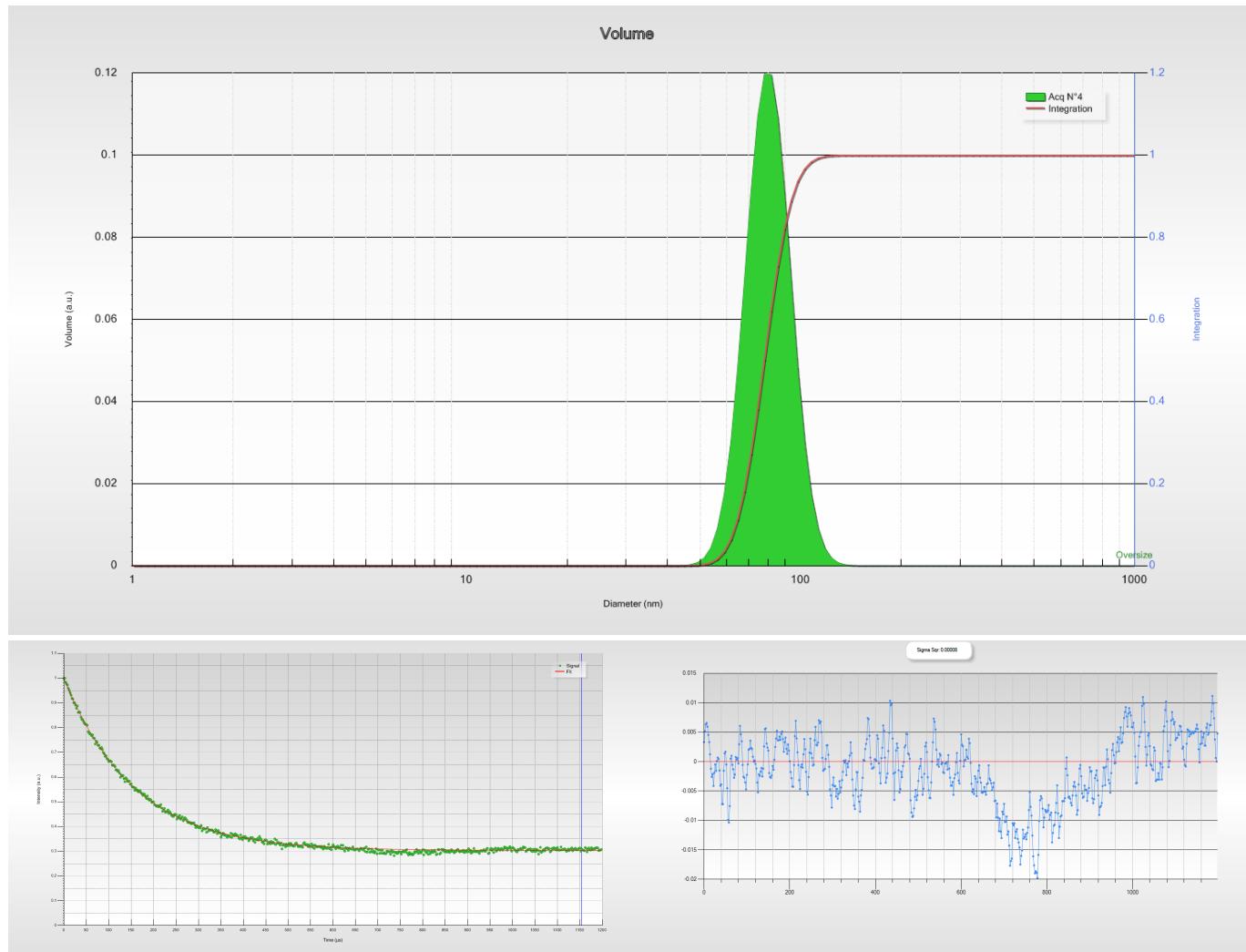
Dn 50%: 74.39 nm

Dn 90%: 89.5 nm

Std Dev: 14.9%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.8	0.69	3175.99	60.08468E-013

**Distribution statistics**

D_v 10%: 64.75 nm
Mean Volume: 80.62 nm
PDI : 0.08883

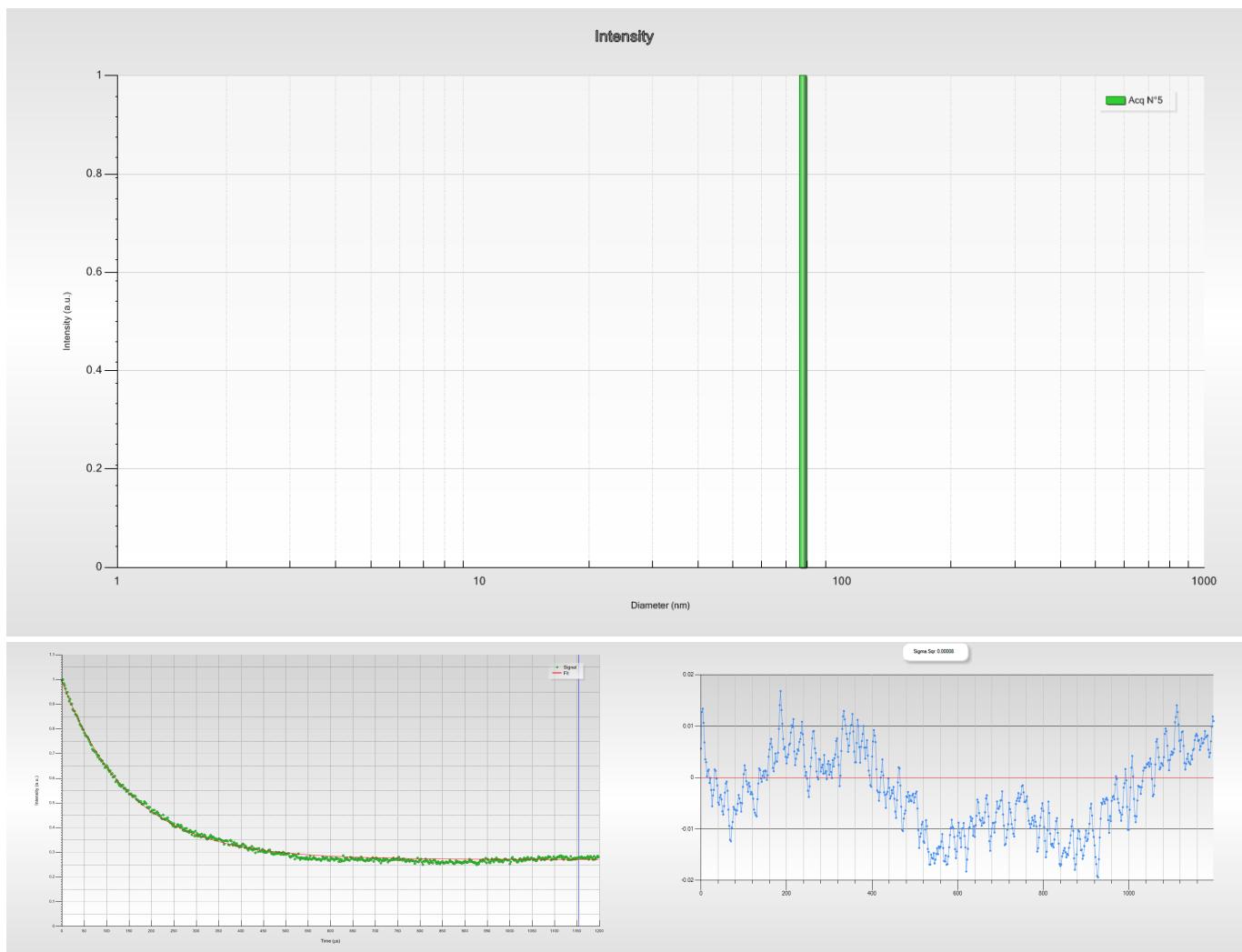
D_v 50%: 77.91 nm

D_v 90%: 98.17 nm

Std Dev: 14.9%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
81.8	0.69	3175.99	60.08468E-013



Dispersion statistics

Di 10%: 77.91 nm
Mean Intensity: 77.91 nm

Di 50%: 77.91 nm

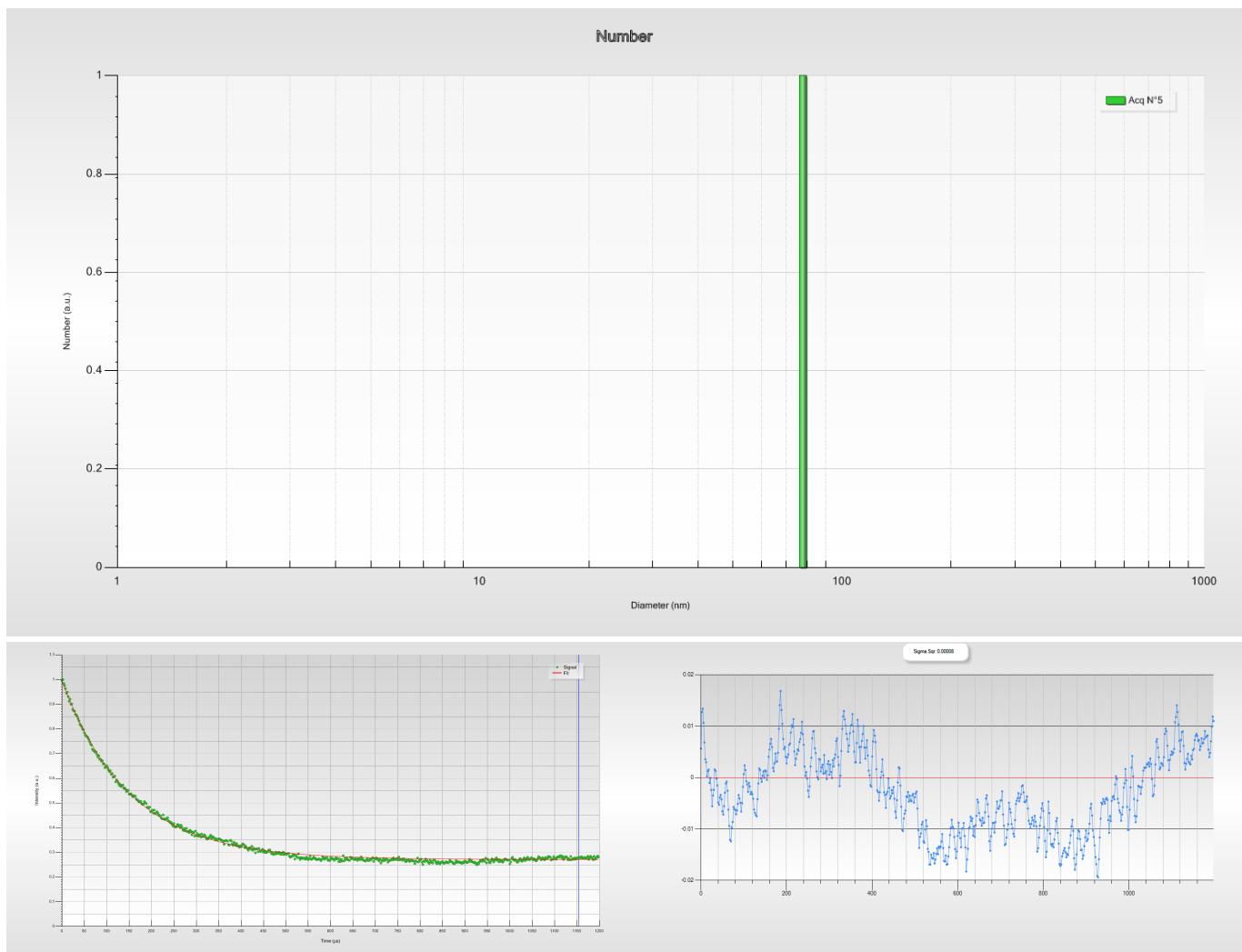
Di 90%: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
79.19	0.85	3280.46	62.06097E-013

Dispersion datas

Size (nm)	Intensity
77.91	1



Dispersion statistics

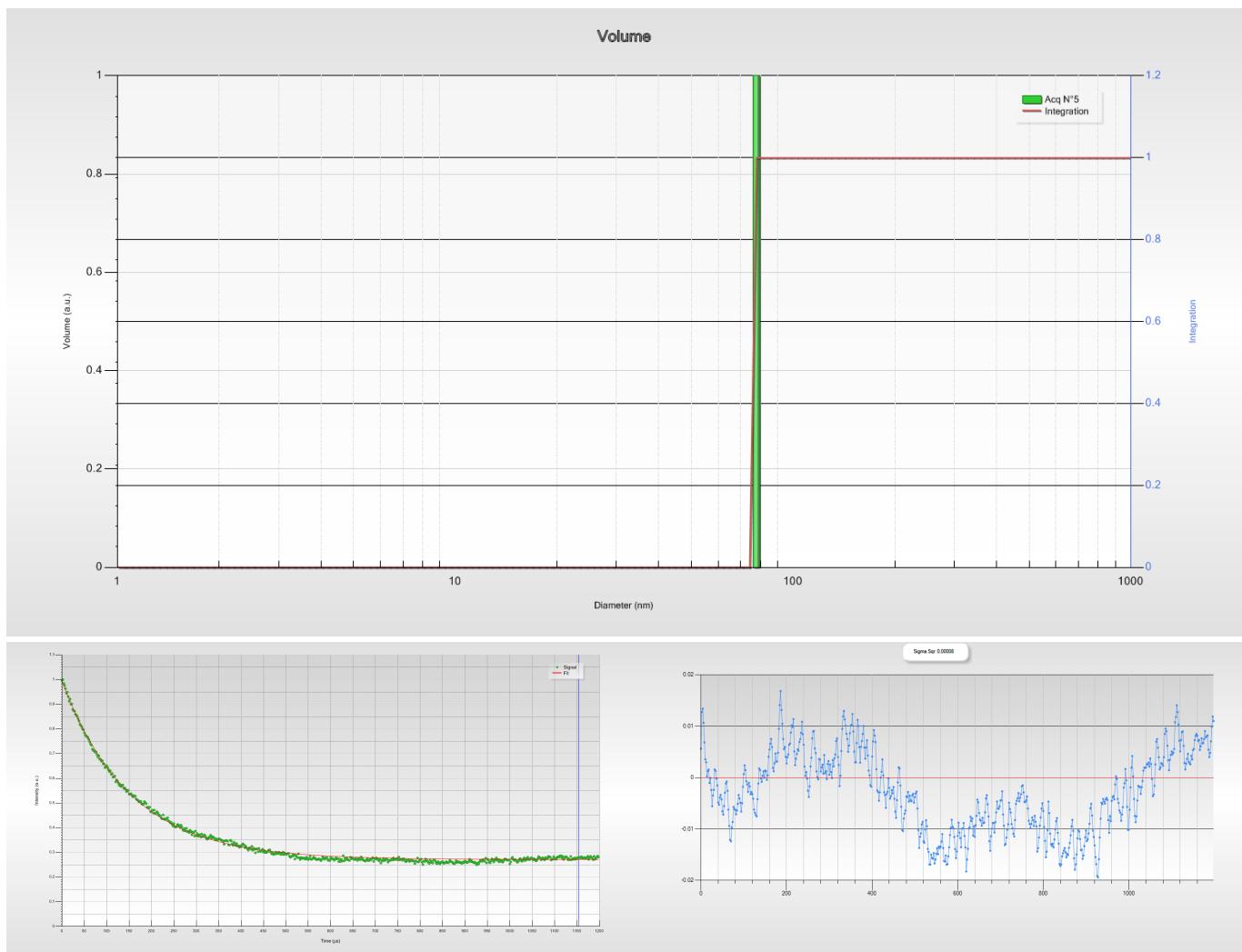
Dn 10%: 77.91 nm Dn 50%: 77.91 nm Dn 90%: 77.91 nm
 Mean Number: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
79.19	0.85	3280.46	62.06097E-013

Dispersion data

Size (nm)	Number
77.91	1



Dispersion statistics

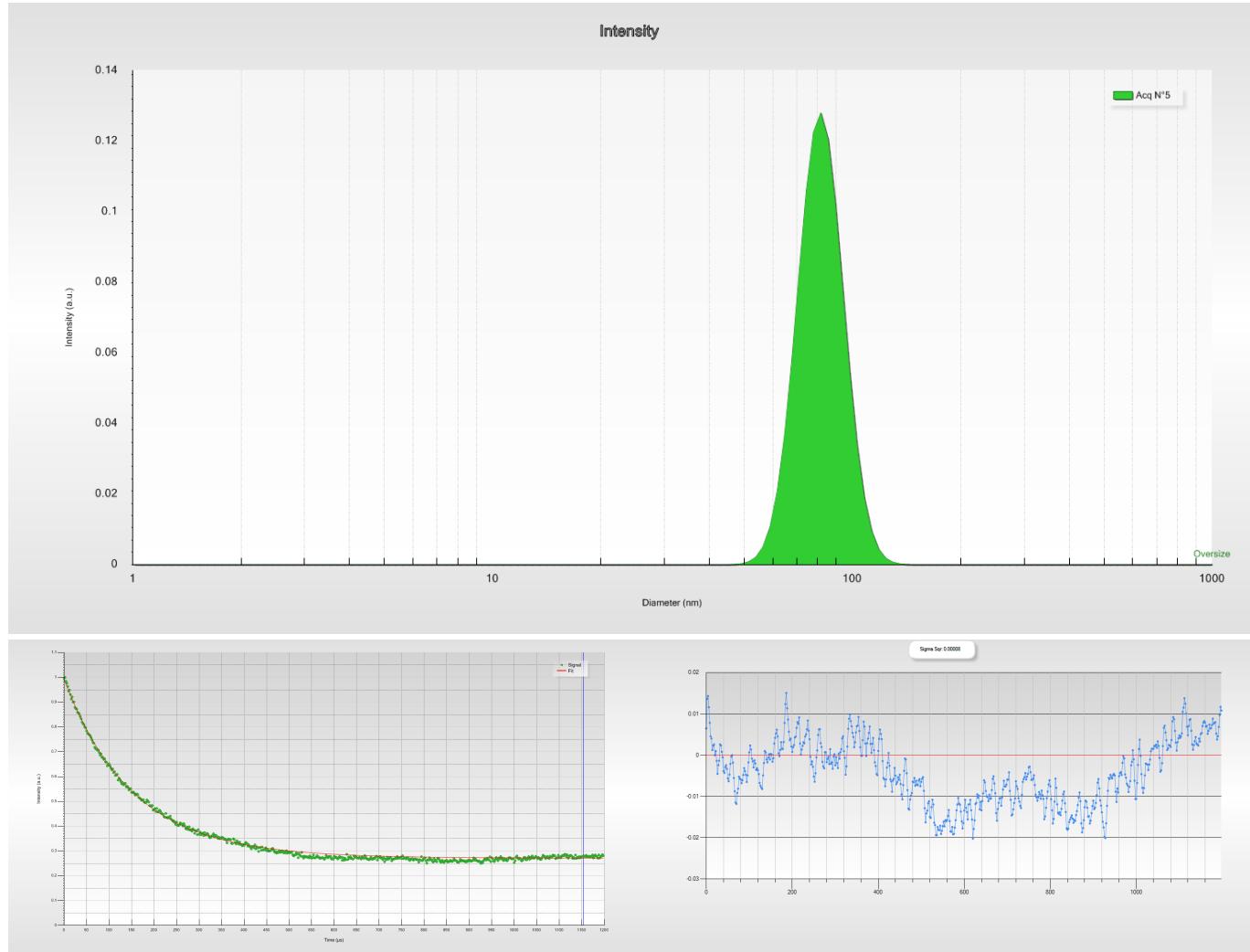
D_v 10%: 77.91 nm **D_v 50%:** 77.91 nm **D_v 90%:** 77.91 nm
Mean Volume: 77.91 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
79.19	0.85	3280.46	62.06097E-013

Dispersion datas

Size (nm)	Volume
77.91	1



Distribution statistics

Di 10%: 67.81 nm	Di 50%: 81.59 nm	Di 90%: 98.17 nm
Mean Intensity: 82.14 nm		
PDI : 0.08387		Std Dev: 14.48%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.78	0.72	3297.45	62.38232E-013

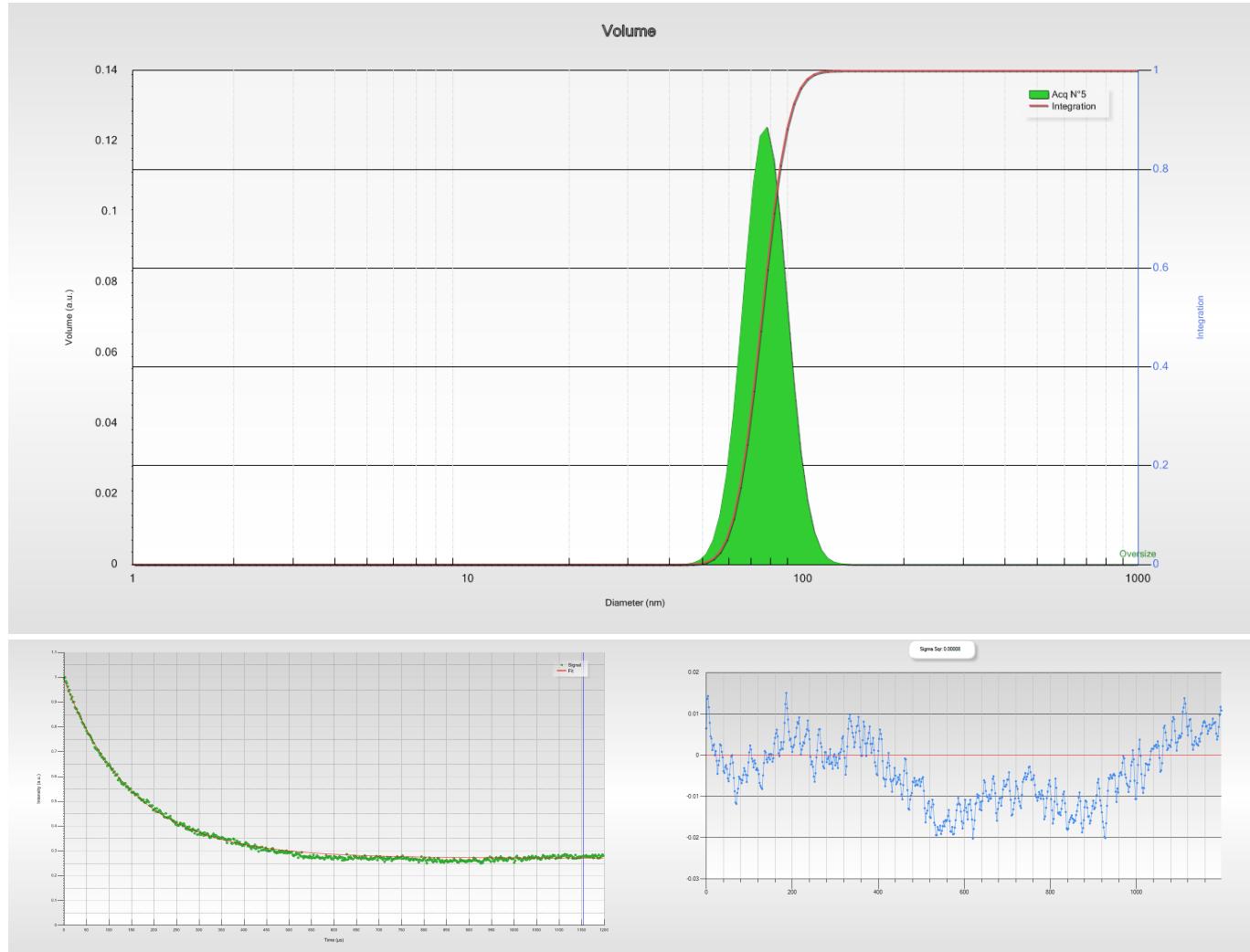


Distribution statistics

Dn 10%: 59.03 nm	Dn 50%: 71.02 nm	Dn 90%: 85.45 nm
Mean Number: 72.76 nm		
PDI : 0.08387		Std Dev: 14.48%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.78	0.72	3297.45	62.38232E-013

**Distribution statistics**

D_v 10%: 64.75 nm	D_v 50%: 77.91 nm	D_v 90%: 93.73 nm
Mean Volume: 77.71 nm		
PDI : 0.08387		Std Dev: 14.48%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
78.78	0.72	3297.45	62.38232E-013