

## 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 **Acquisitions** : 5  
**Time limitation** : 60 s  
**Temperature** : 25 °C

### Device Settings

<b>Time interval</b>	: 2 $\mu$ s	<b>Number of channels</b>	: 300
<b>Laser power</b>	: 38.1 %	<b>Wavelength</b>	: 657 nm
<b>DTC Position</b>	: UP		

### Liquid Medium

<b>Refractive index</b>	: 1.331	<b>Viscosity</b>	: 0.888 cP
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### Particles

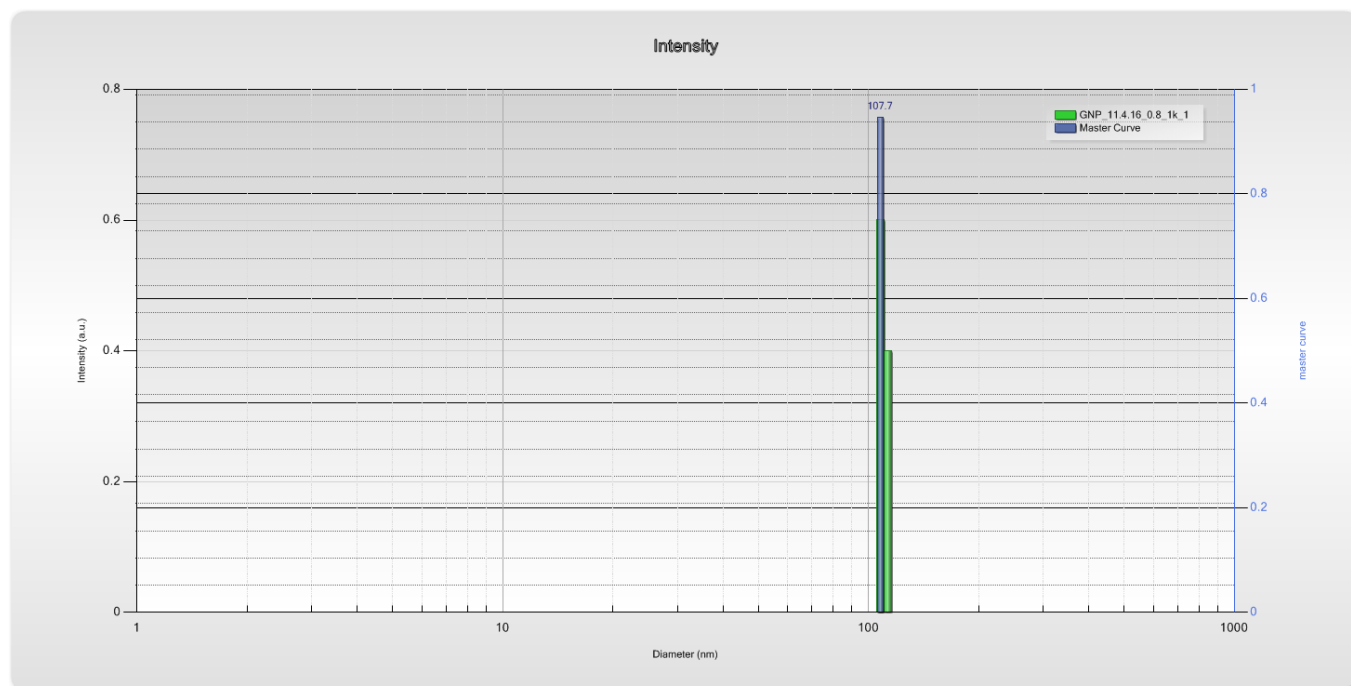
<b>Real part</b>	: 1.56	<b>Imaginary part</b>	: 0.01
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### Algorithm

Pade Laplace	Cumulants
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## Measurement

<b>Average count rate</b> : 2855 kcps	<b>Duration</b> : 00:05:08
<b>Number of rejected</b> : 0	<b>Number of modified</b> : 0



### Dispersion statistics

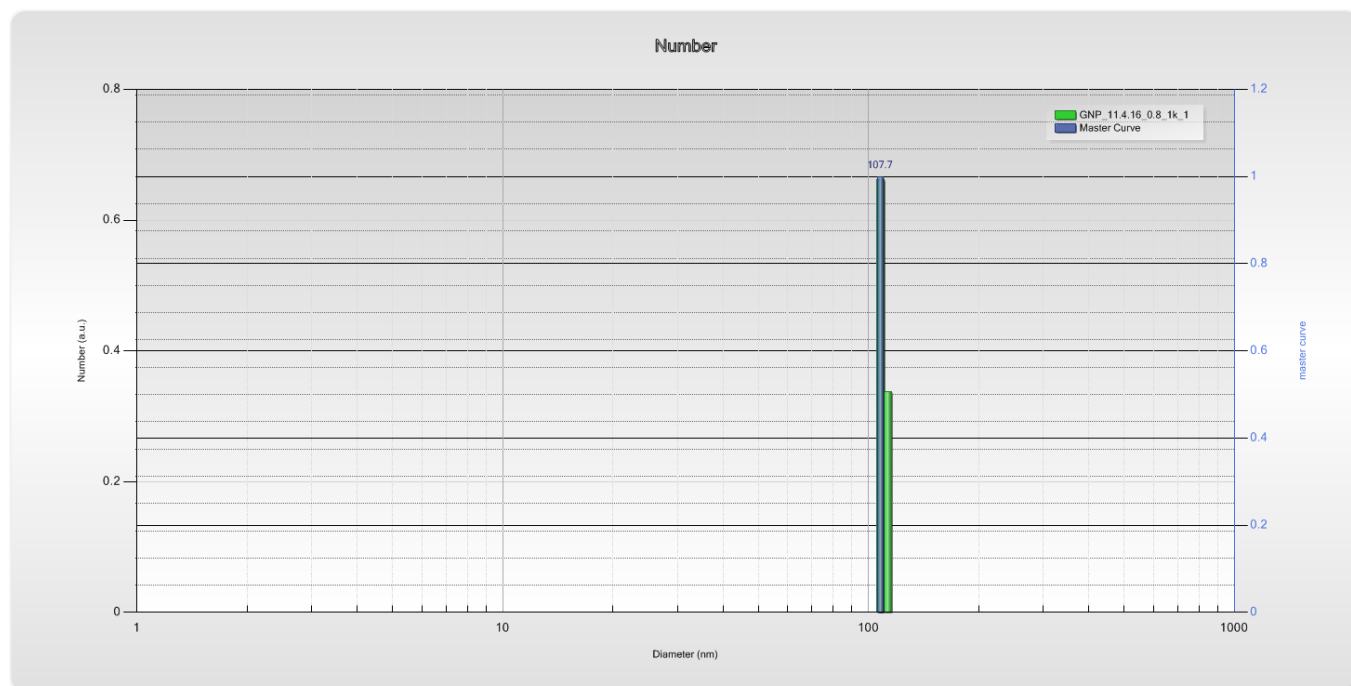
**Di 10%:** 107.68 nm

**Di 50%:** 107.68 nm

**Di 90%:** 112.77 nm

### Dispersion datas

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



### Dispersion statistics

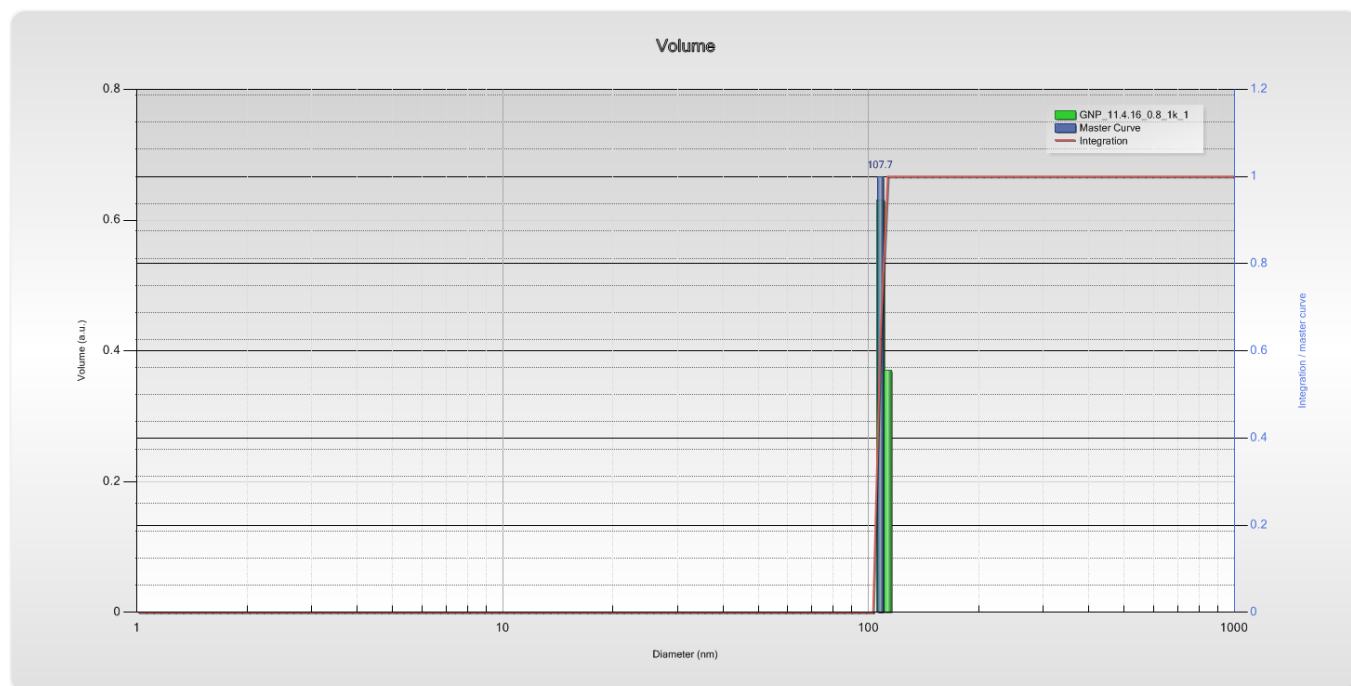
**Dn 10%:** 107.68 nm

**Dn 50%:** 107.68 nm

**Dn 90%:** 112.77 nm

### Dispersion datas

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



### Dispersion statistics

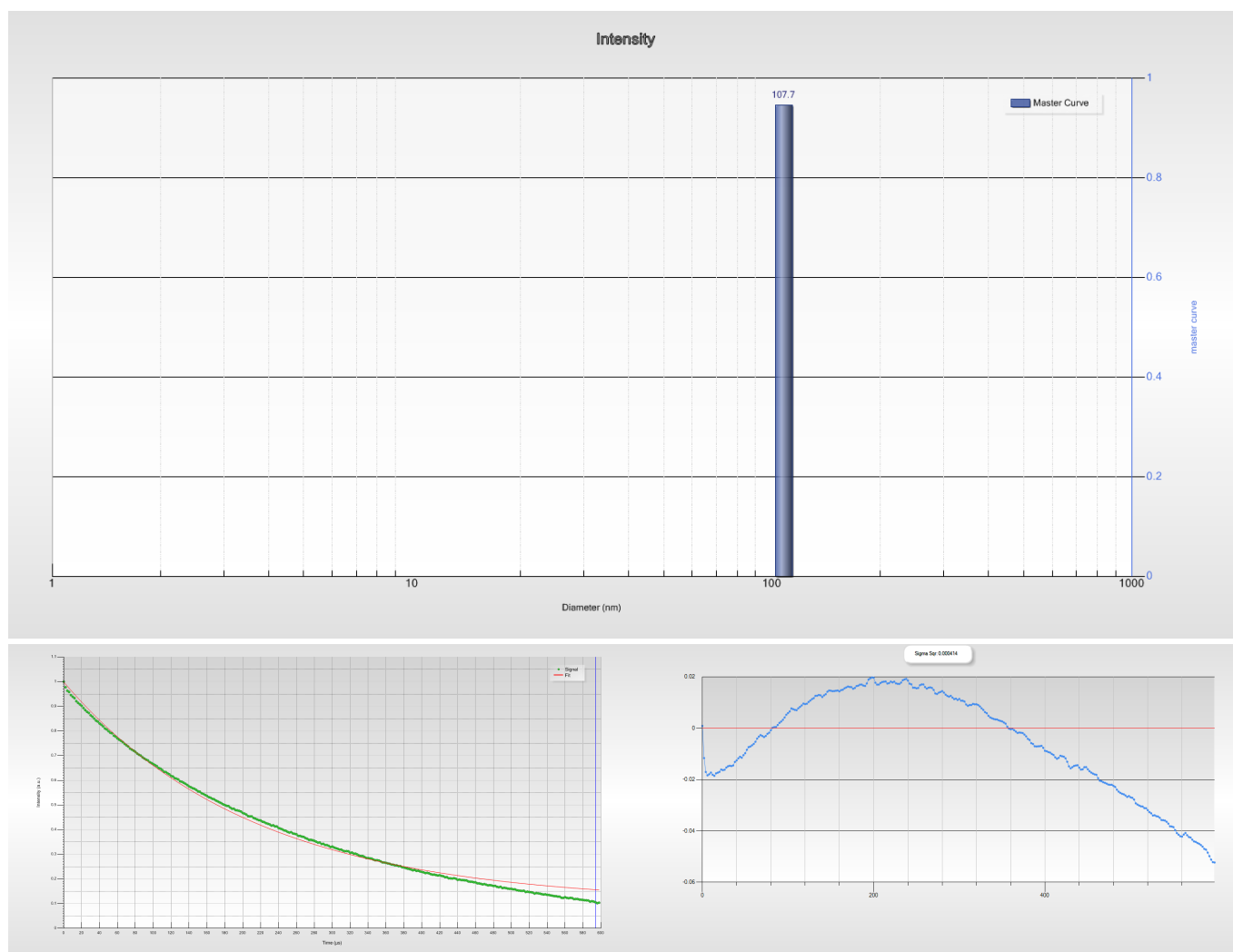
**Dv 10%:** 107.68 nm

**Dv 50%:** 107.68 nm

**Dv 90%:** 112.77 nm

### Dispersion datas

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

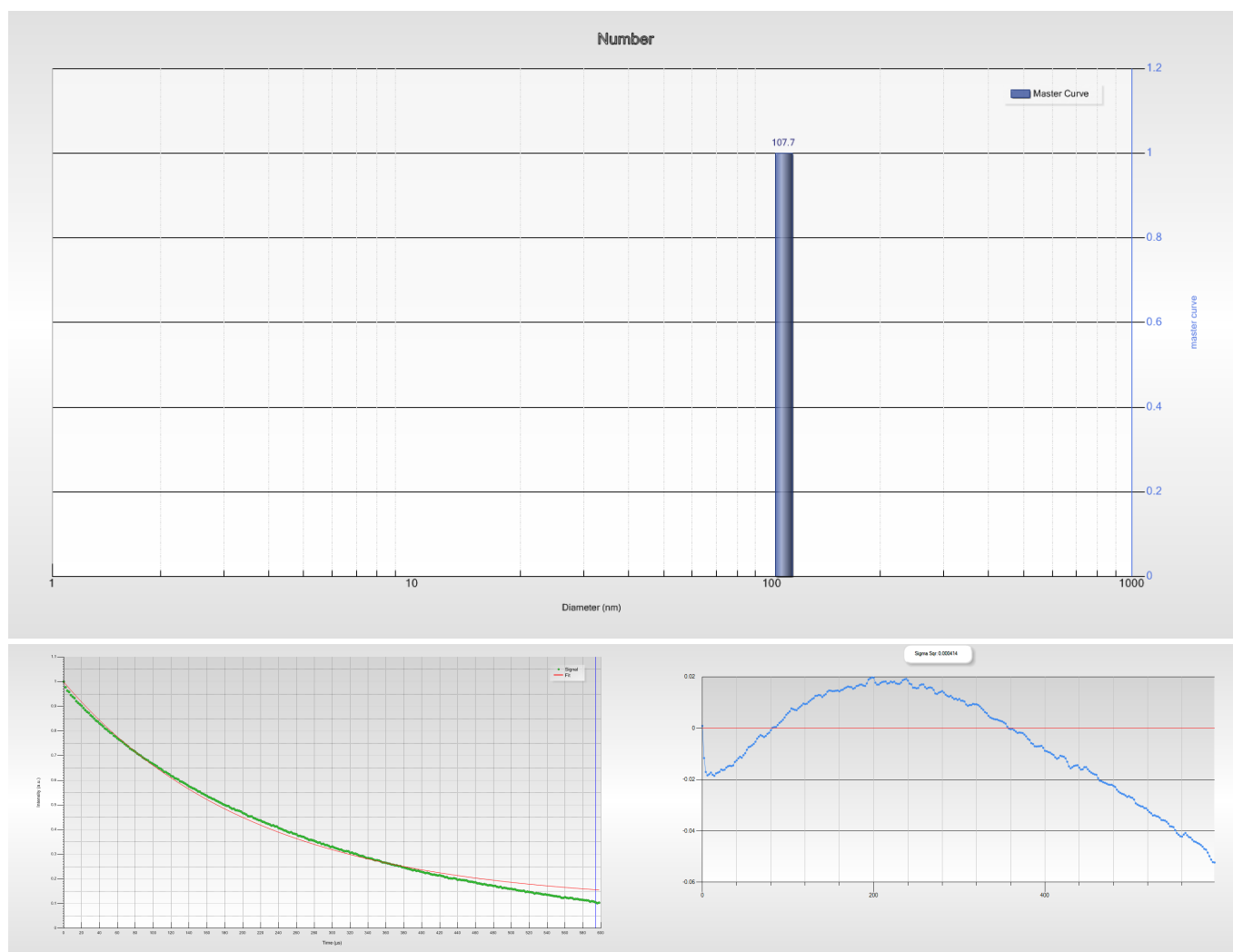
**Di 90%:** 107.68 nm

### Detected size(s)

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

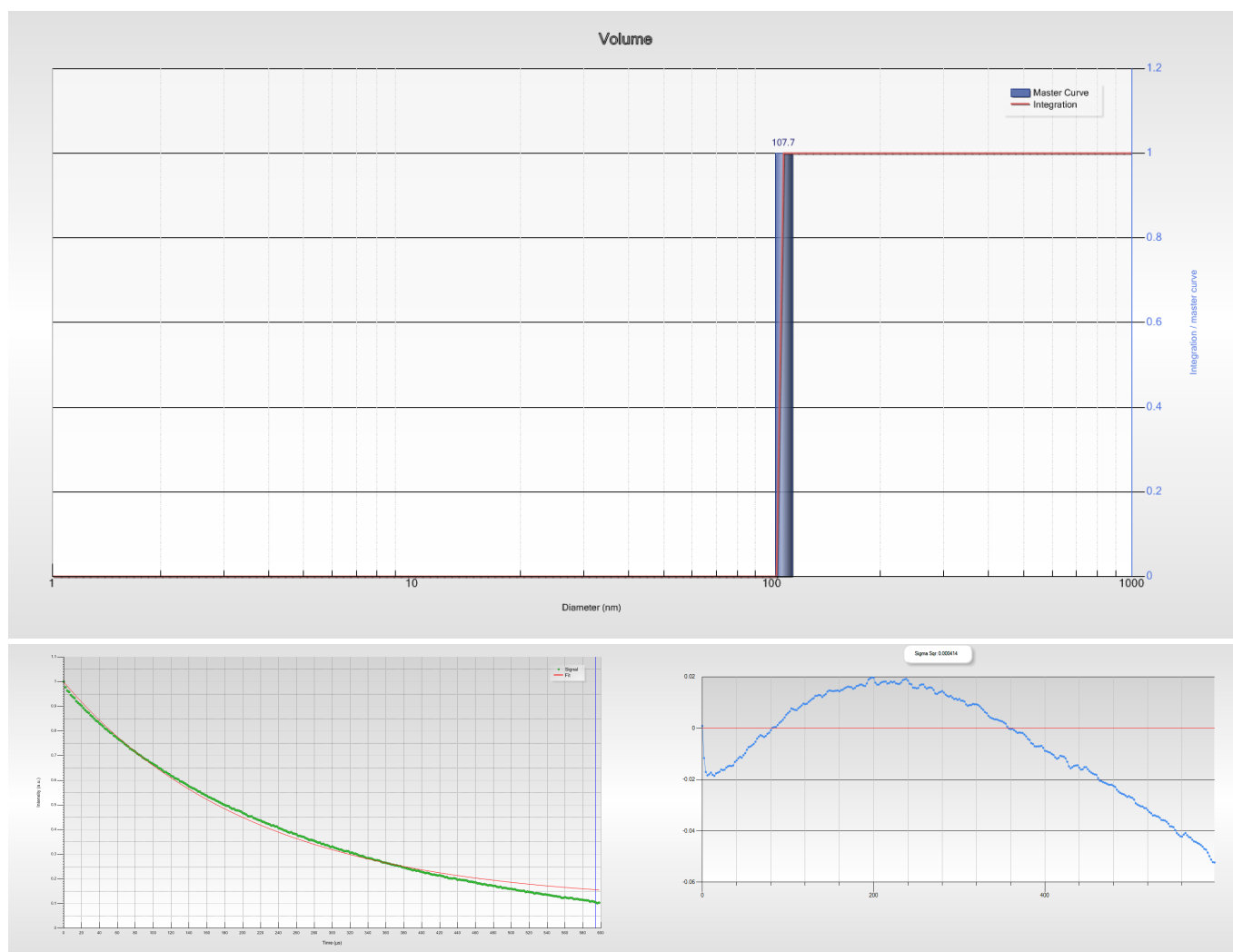
**Dn 90%:** 107.68 nm

### Detected size(s)

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

### Dispersion datas

Size (nm)	Number
107.68	1



### Dispersion statistics

**Dv 10%:** 107.68 nm  
**Mean Volume:** 107.68 nm

**Dv 50%:** 107.68 nm

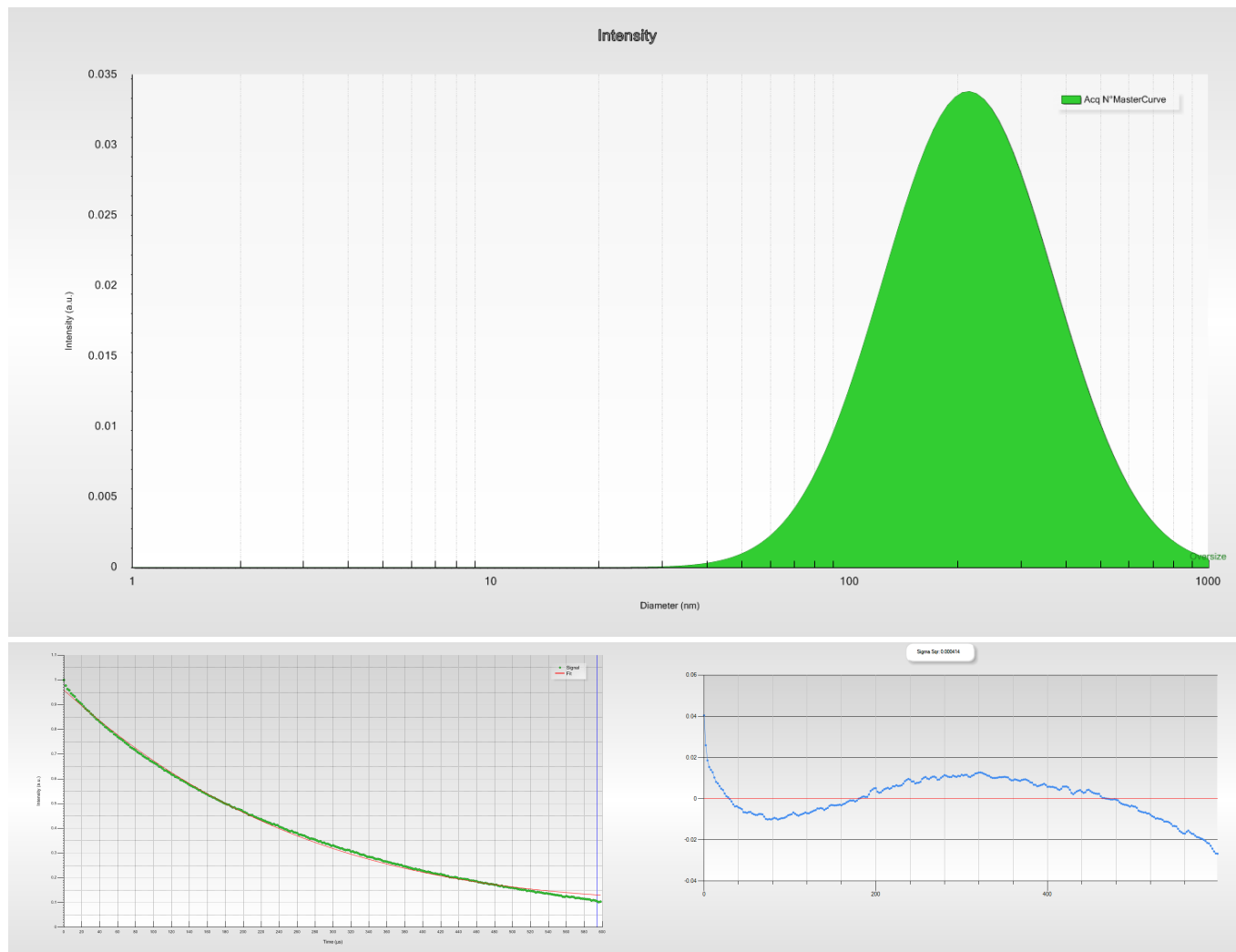
**Dv 90%:** 107.68 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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 <sup>2</sup> /s)
136.68	0.86	1900.74	35.95885E-013





### Distribution statistics

**Dn 10%:** 17.74 nm  
**Mean Number:** 43.02 nm  
**PDI** : 1.39165

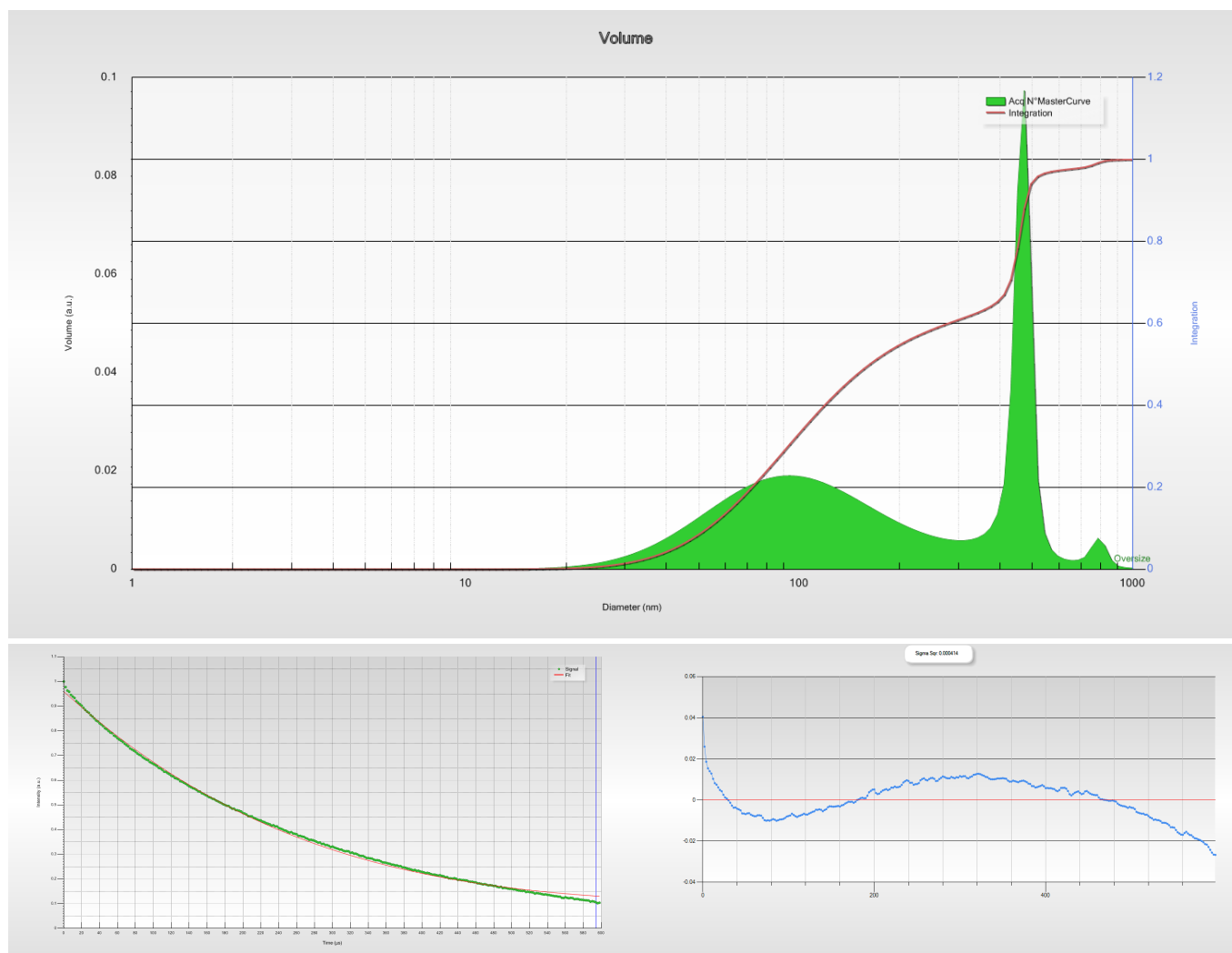
**Dn 50%:** 35.5 nm

**Dn 90%:** 74.39 nm

**Std Dev:** 58.98%

### Detected size(s)

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



### Distribution statistics

**Dv 10%:** 53.82 nm  
**Mean Volume:** 254.69 nm  
**PDI** : 1.39165

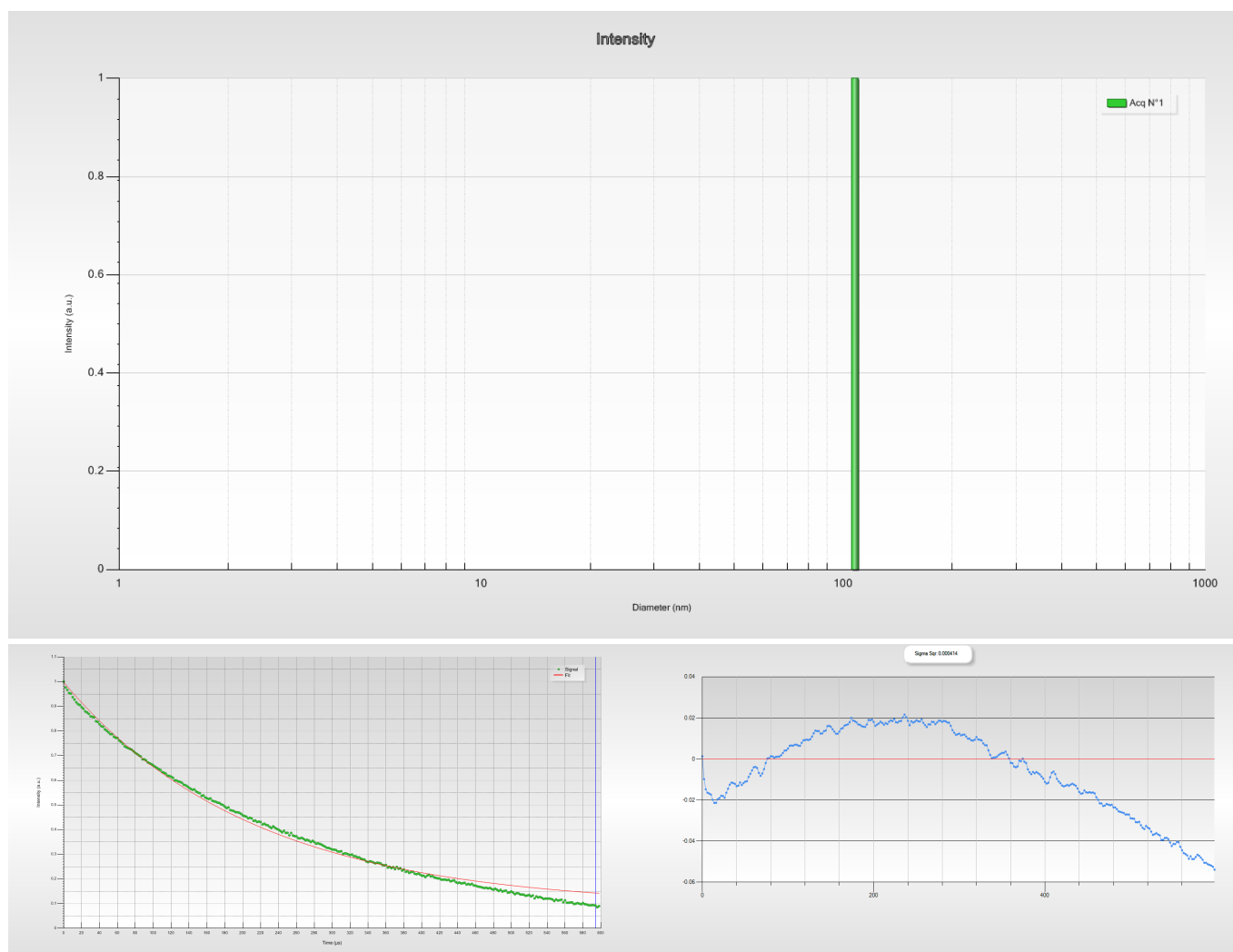
**Dv 50%:** 163.25 nm

**Dv 90%:** 495.2 nm

**Std Dev:** 58.98%

### Detected size(s)

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



### Dispersion statistics

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

**Di 50%:** 107.68 nm

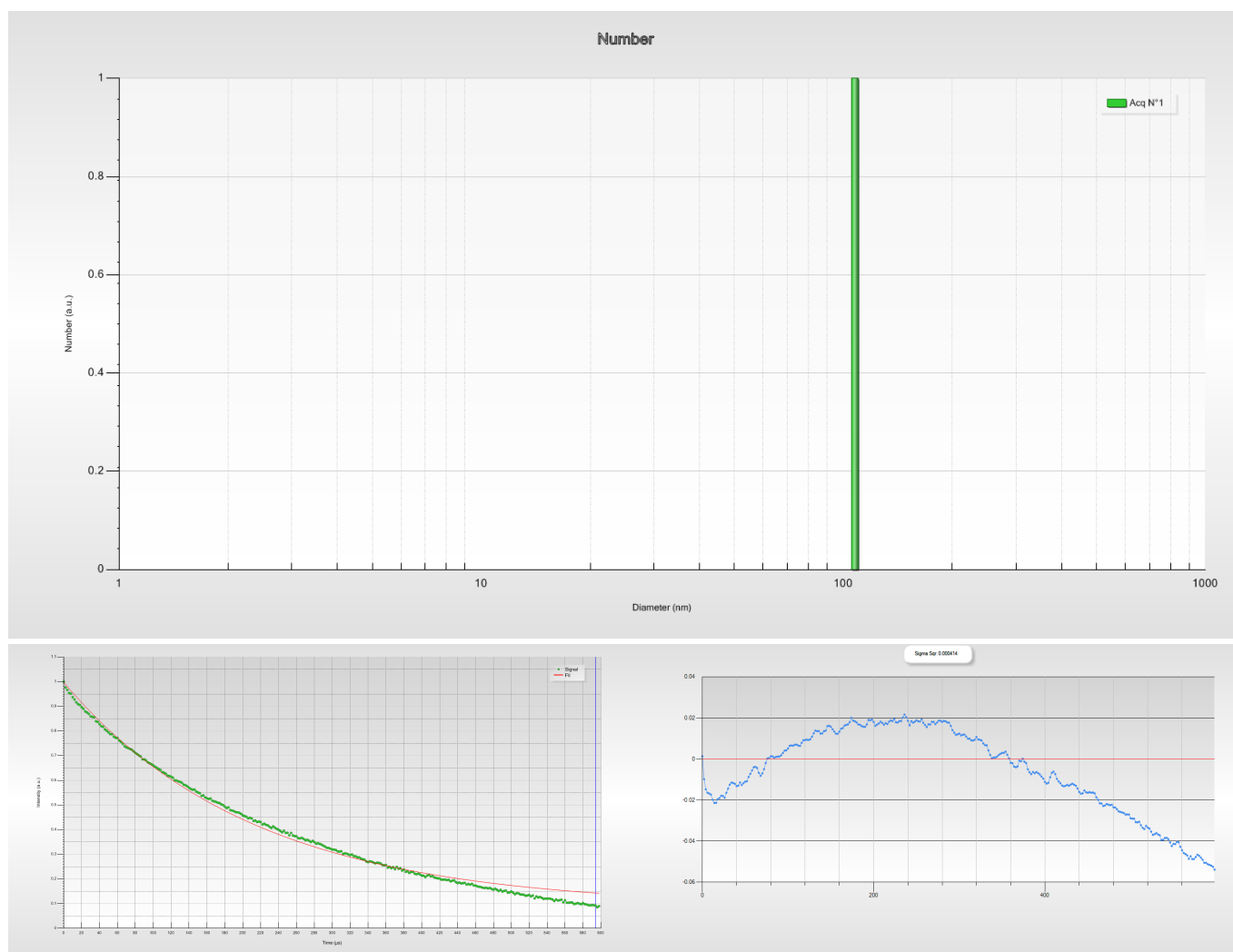
**Di 90%:** 107.68 nm

### Detected size(s)

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

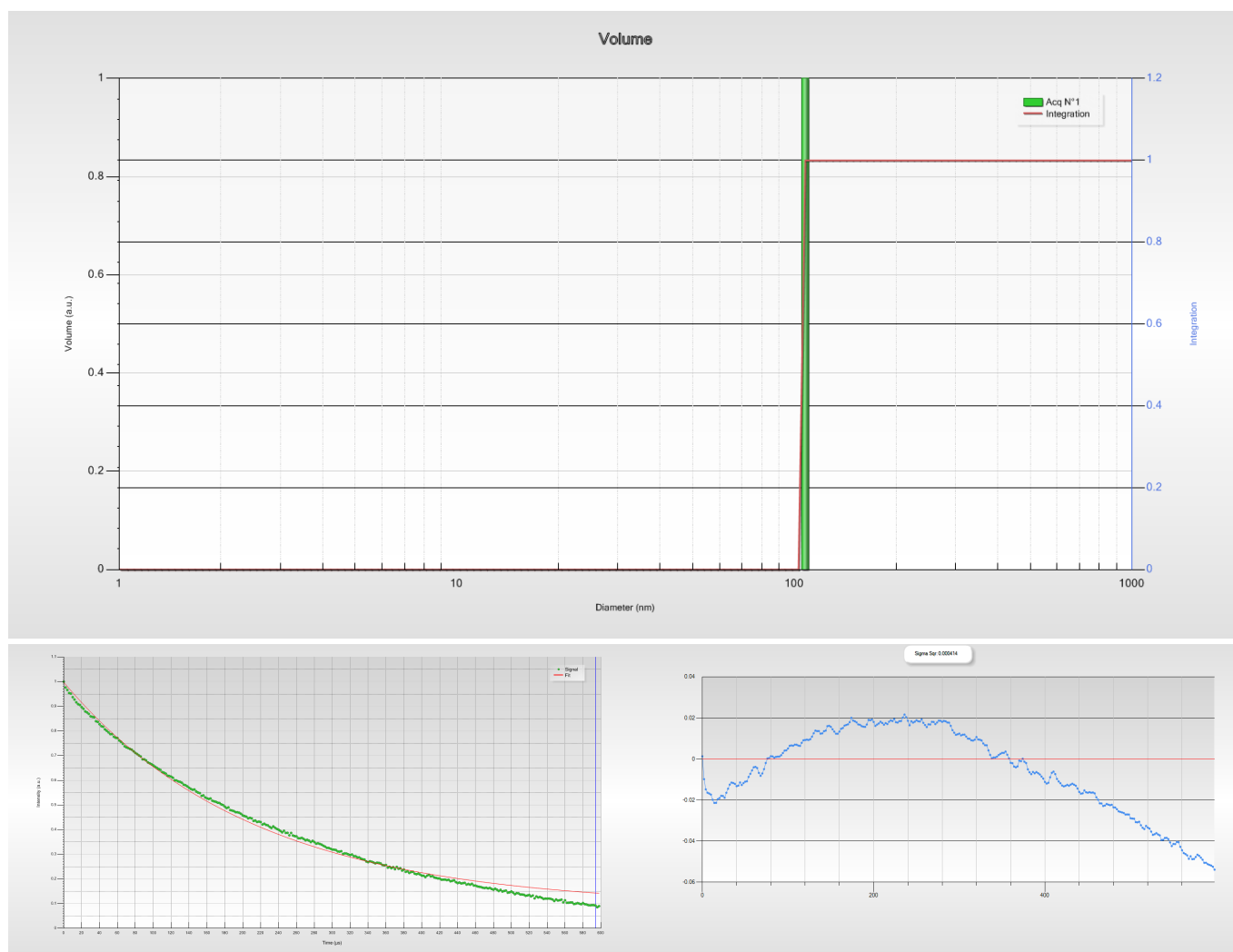
**Dn 90%:** 107.68 nm

### Detected size(s)

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

### Dispersion datas

Size (nm)	Number
107.68	1



### Dispersion statistics

**Dv 10%:** 107.68 nm  
**Mean Volume:** 107.68 nm

**Dv 50%:** 107.68 nm

**Dv 90%:** 107.68 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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  
**Mean Intensity:** 248.5 nm  
**PDI** : 1.39886

**Di 50%:** 215.44 nm

**Di 90%:** 431.06 nm

**Std Dev:** 59.14%

**Detected size(s)**

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

**Distribution statistics**

**Dn 10%:** 17.74 nm  
**Mean Number:** 43.13 nm  
**PDI** : 1.39886

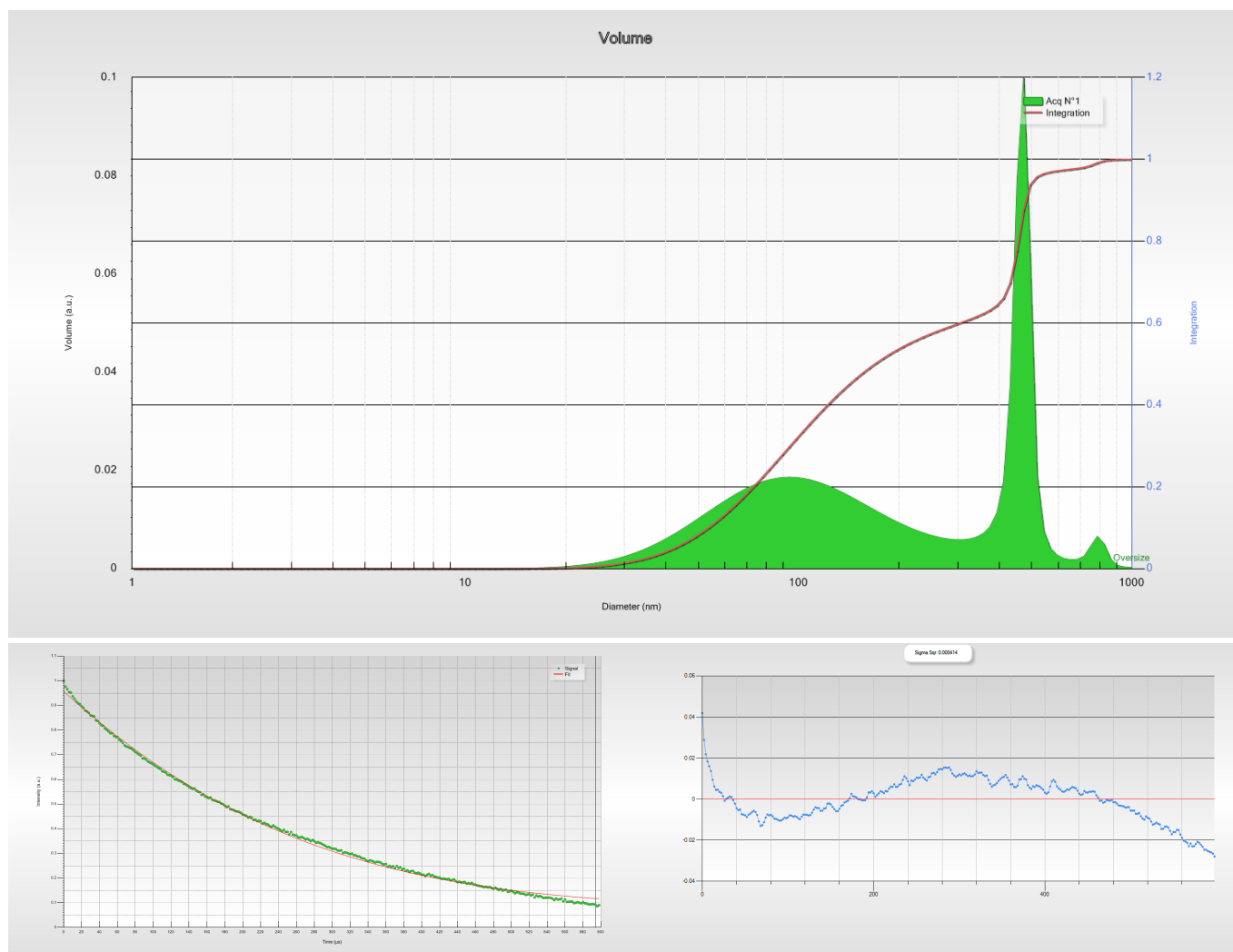
**Dn 50%:** 35.5 nm

**Dn 90%:** 74.39 nm

**Std Dev:** 59.14%

**Detected size(s)**

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

**Distribution statistics**

**Dv 10%:** 53.82 nm  
**Mean Volume:** 259.28 nm  
**PDI** : 1.39886

**Dv 50%:** 170.97 nm

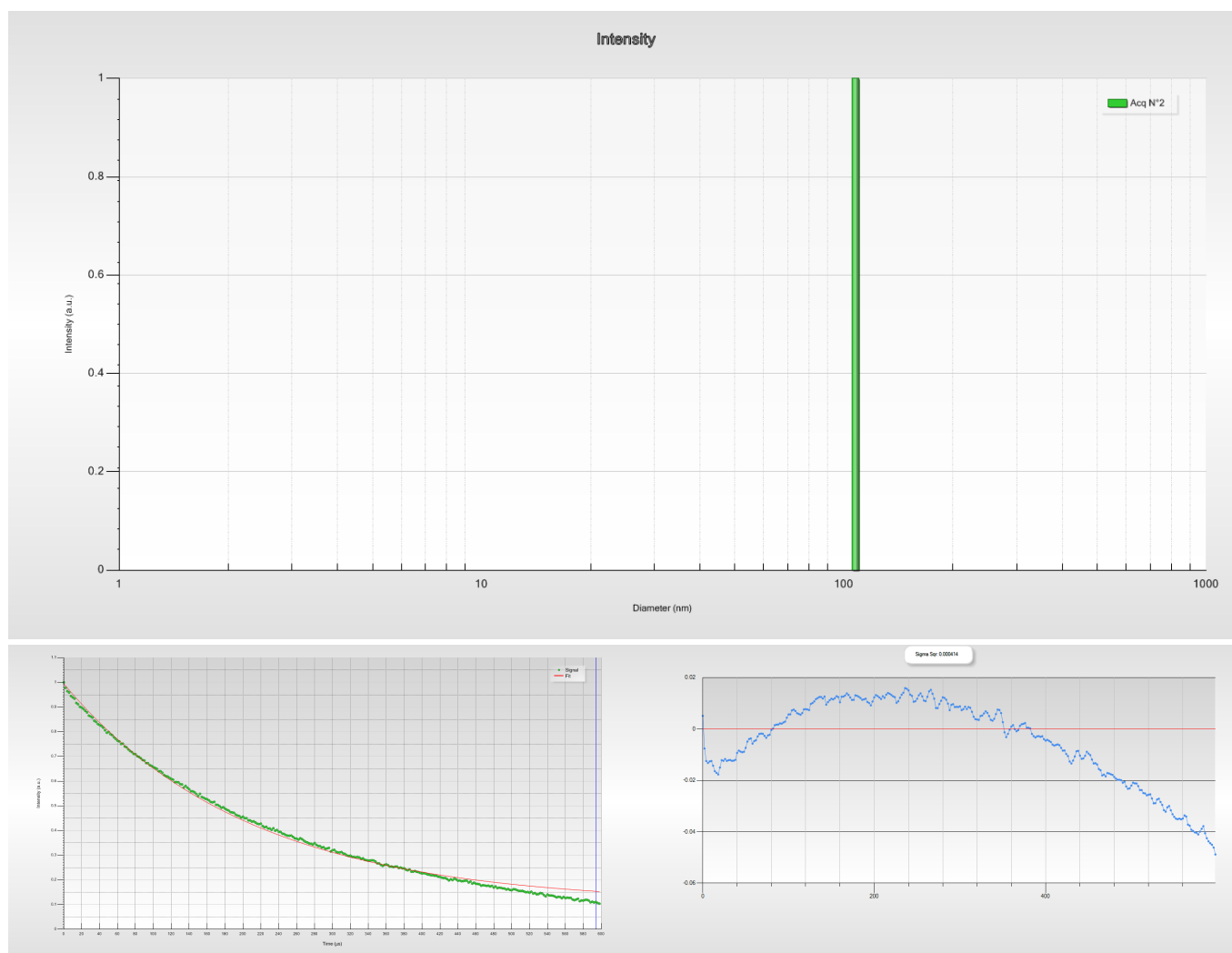
**Dv 90%:** 495.2 nm

**Std Dev:** 59.14%

**Detected size(s)**

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





### Dispersion statistics

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

**Di 50%:** 107.68 nm

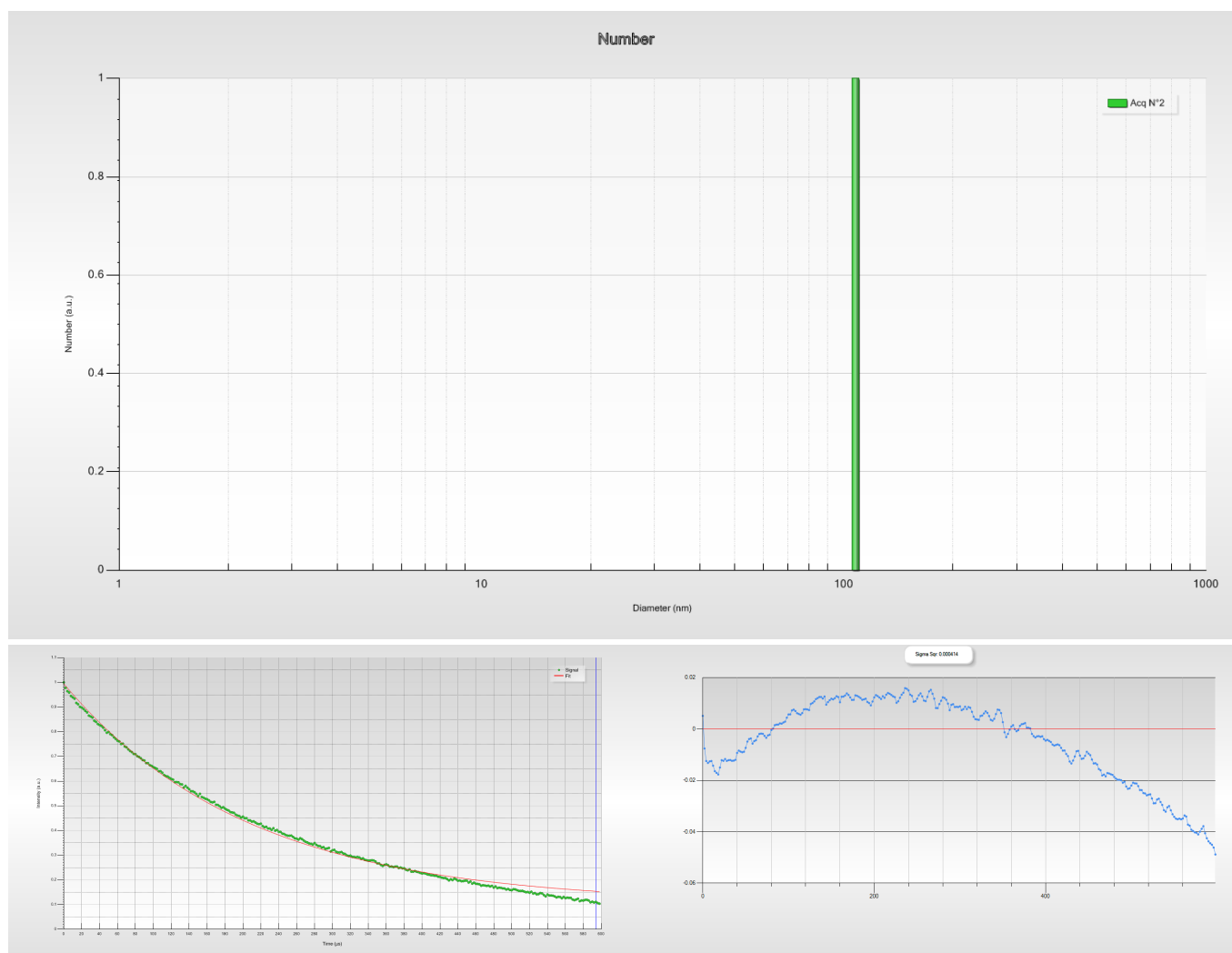
**Di 90%:** 107.68 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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

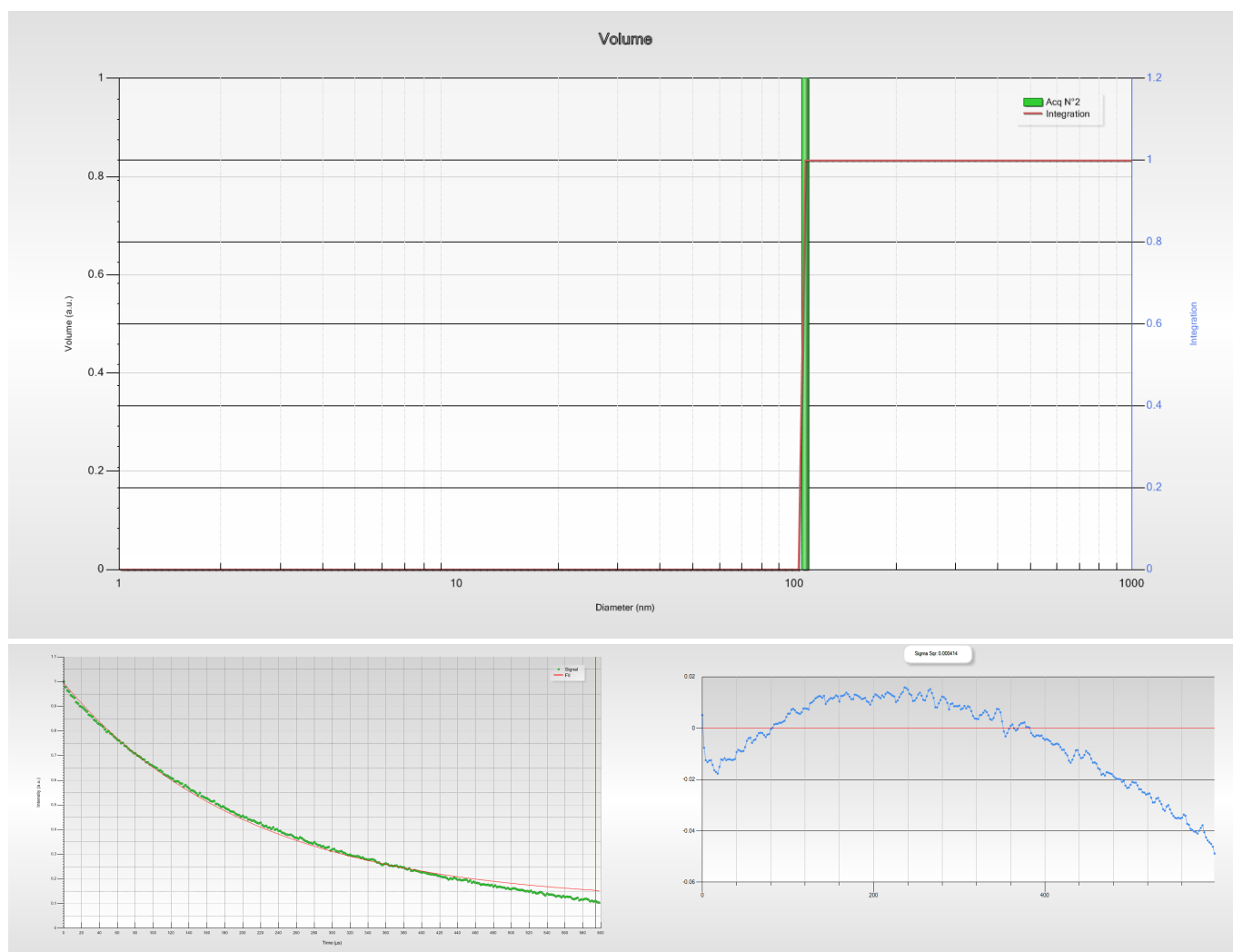
**Dn 90%:** 107.68 nm

### Detected size(s)

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

### Dispersion datas

Size (nm)	Number
107.68	1



### Dispersion statistics

**Dv 10%:** 107.68 nm  
**Mean Volume:** 107.68 nm

**Dv 50%:** 107.68 nm

**Dv 90%:** 107.68 nm

### Detected size(s)

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

### Dispersion datas

Size (nm)	Volume
107.68	1

**Distribution statistics**

**Di 10%:** 98.17 nm  
**Mean Intensity:** 194.87 nm  
**PDI** : 0.96029

**Di 50%:** 179.07 nm

**Di 90%:** 311.87 nm

**Std Dev** : 49%

**Detected size(s)**

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



**Distribution statistics**

**Dn 10%:** 26.9 nm  
**Mean Number:** 55.27 nm  
**PDI** : 0.96029

**Dn 50%:** 49.06 nm

**Dn 90%:** 89.5 nm

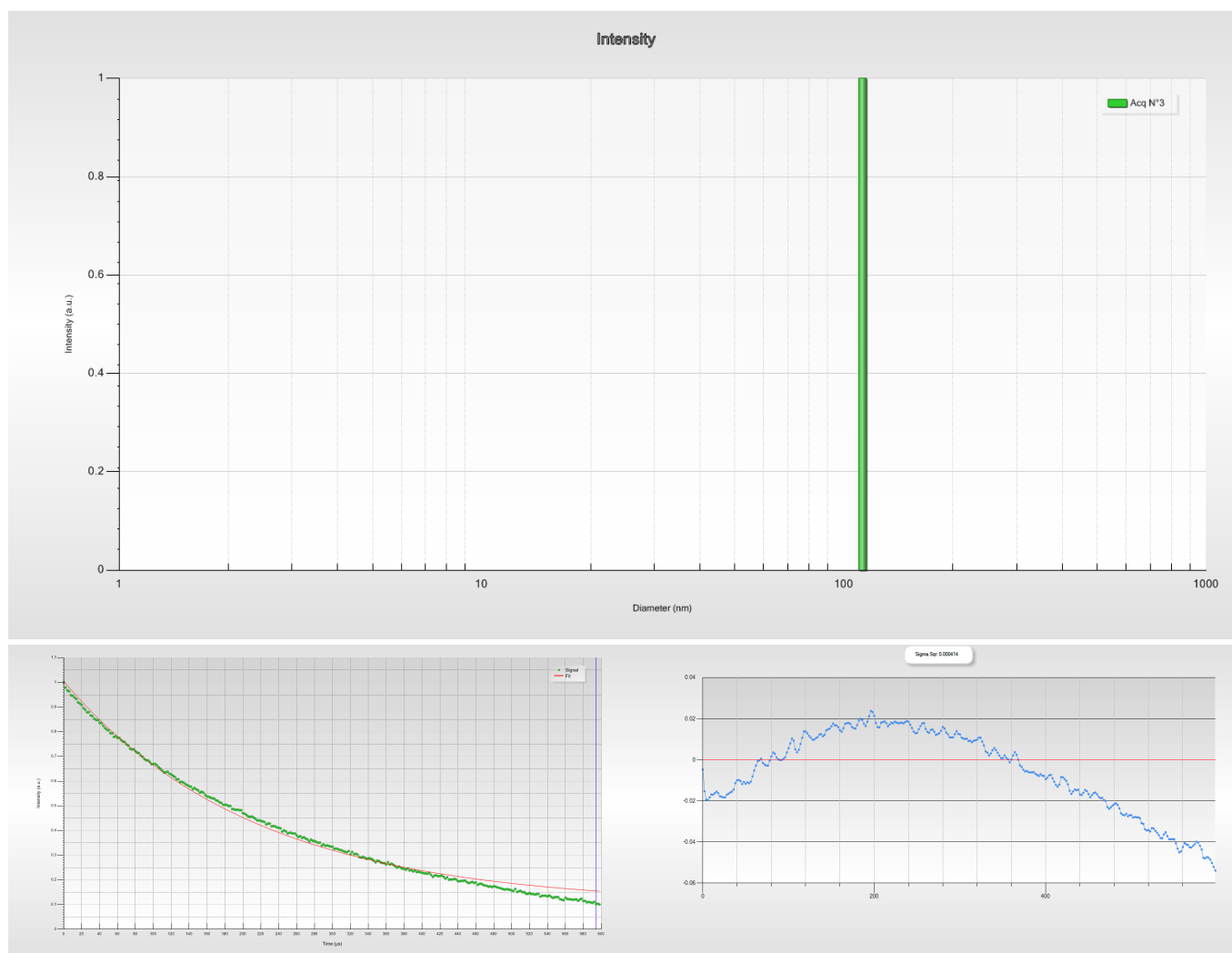
**Std Dev** : 49%

**Detected size(s)**

<b>Z average (nm)</b>	<b>Intensity</b>	<b>Decay Rate</b>	<b>Diffusion Coeff. (m²/s)</b>
126.74	0.86	2049.78	38.77856E-013

**Distribution statistics****Dv 10%:** 56.36 nm**Dv 50%:** 112.77 nm**Dv 90%:** 451.46 nm**Mean Volume:** 164.24 nm**PDI** : 0.96029**Std Dev** : 49%**Detected size(s)**

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



### Dispersion statistics

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

**Di 50%:** 112.77 nm

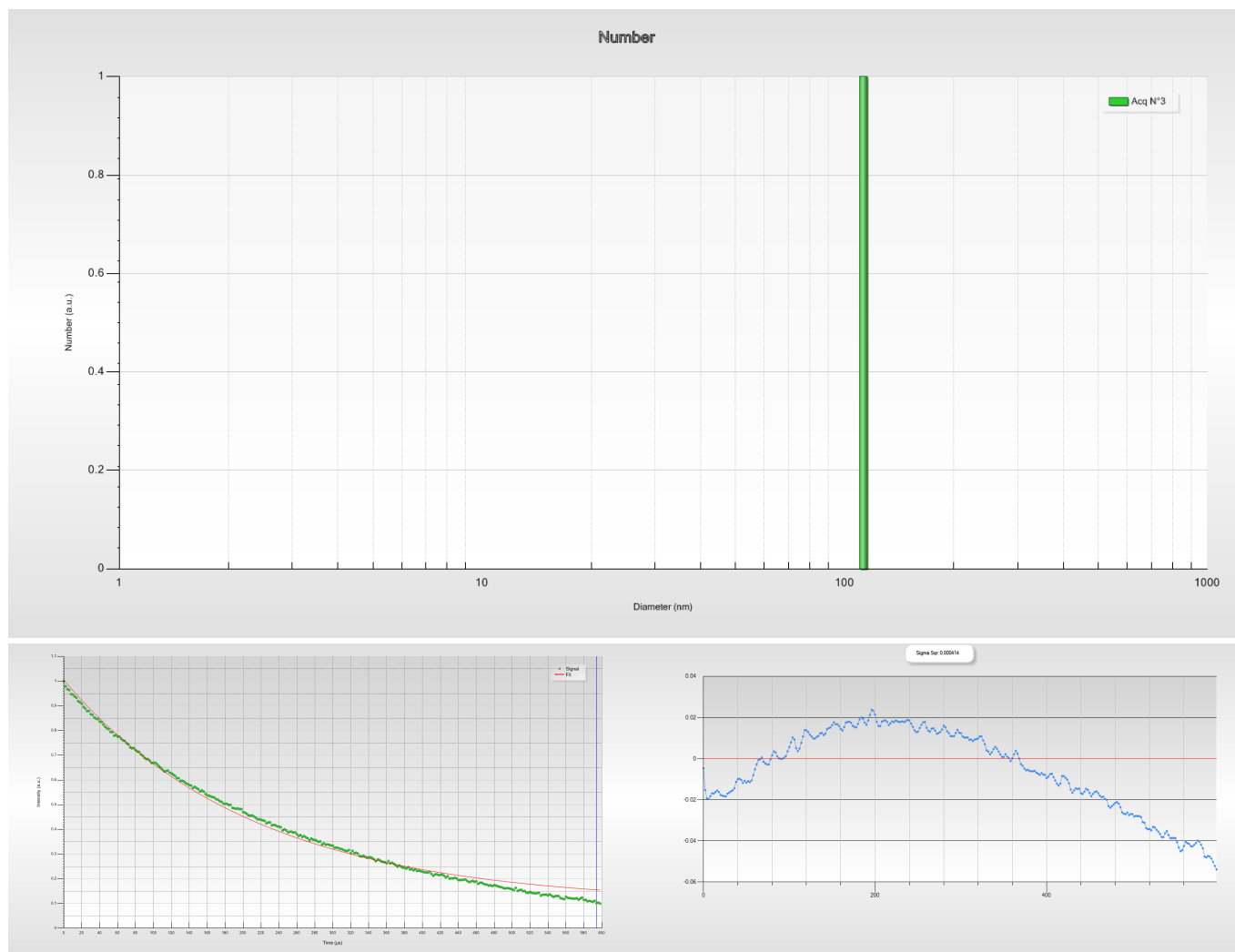
**Di 90%:** 112.77 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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**

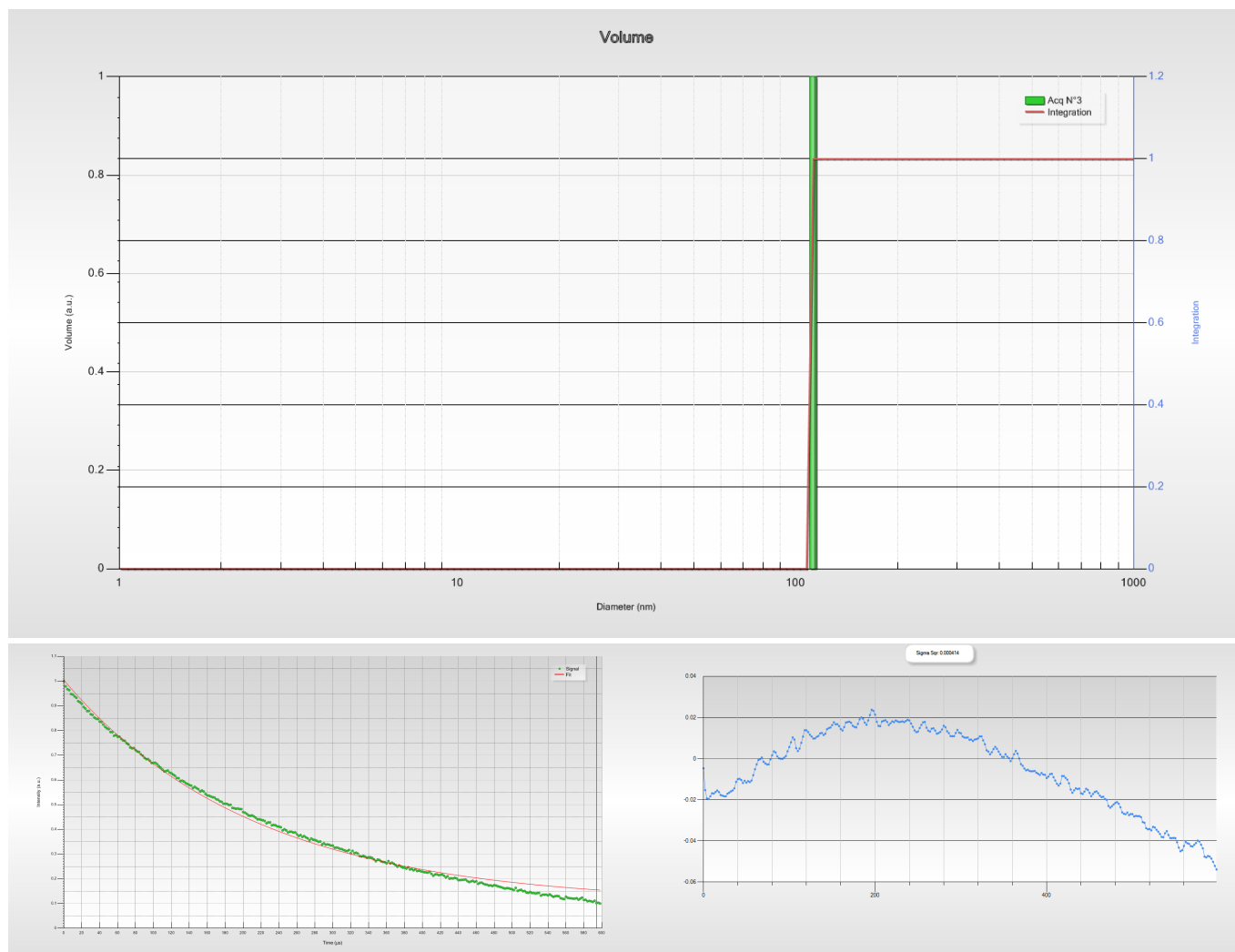
### Detected size(s)

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

### Dispersion datas

Size (nm)	Number
112.77	1





### Dispersion statistics

**Dv 10%:** 112.77 nm  
**Mean Volume:** 112.77 nm

**Dv 50%:** 112.77 nm

**Dv 90%:** 112.77 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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

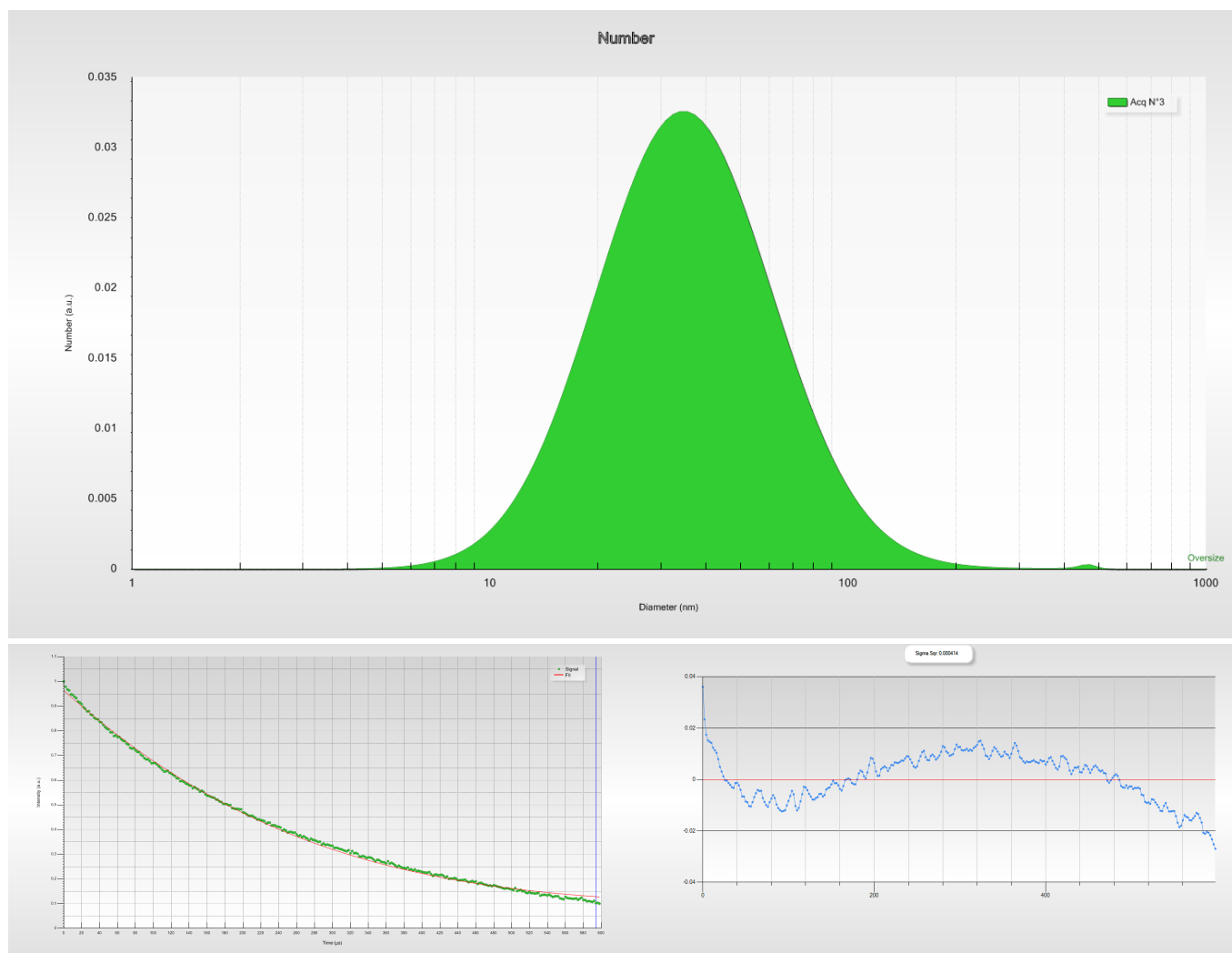
**Di 50%:** 215.44 nm

**Di 90%:** 451.46 nm

**Std Dev:** 60.27%

**Detected size(s)**

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

**Distribution statistics**

**Dn 10%:** 16.94 nm  
**Mean Number:** 41.72 nm  
**PDI** : 1.45288

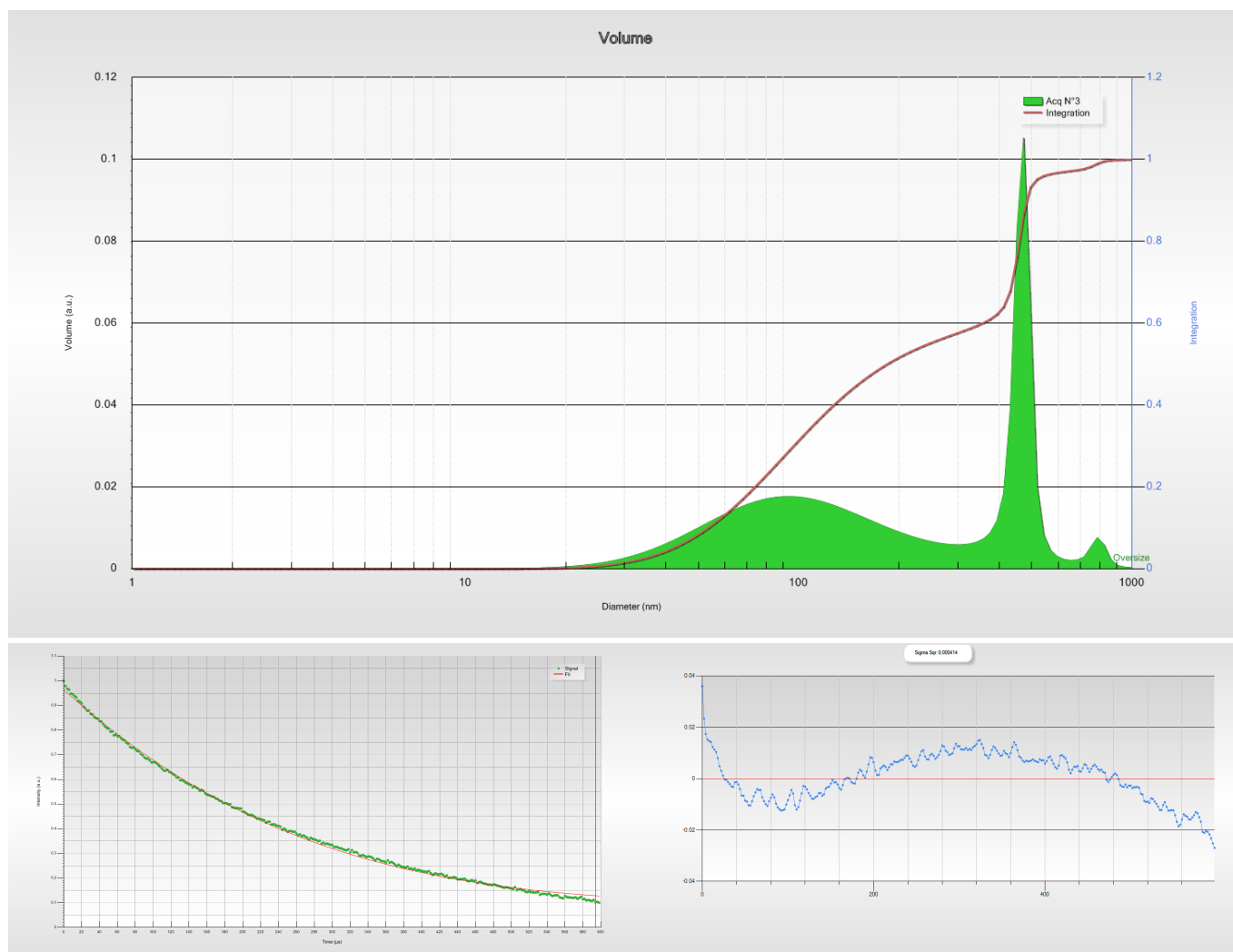
**Dn 50%:** 35.5 nm

**Dn 90%:** 71.02 nm

**Std Dev:** 60.27%

**Detected size(s)**

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

**Distribution statistics**

**Dv 10%:** 53.82 nm  
**Mean Volume:** 268.24 nm  
**PDI** : 1.45288

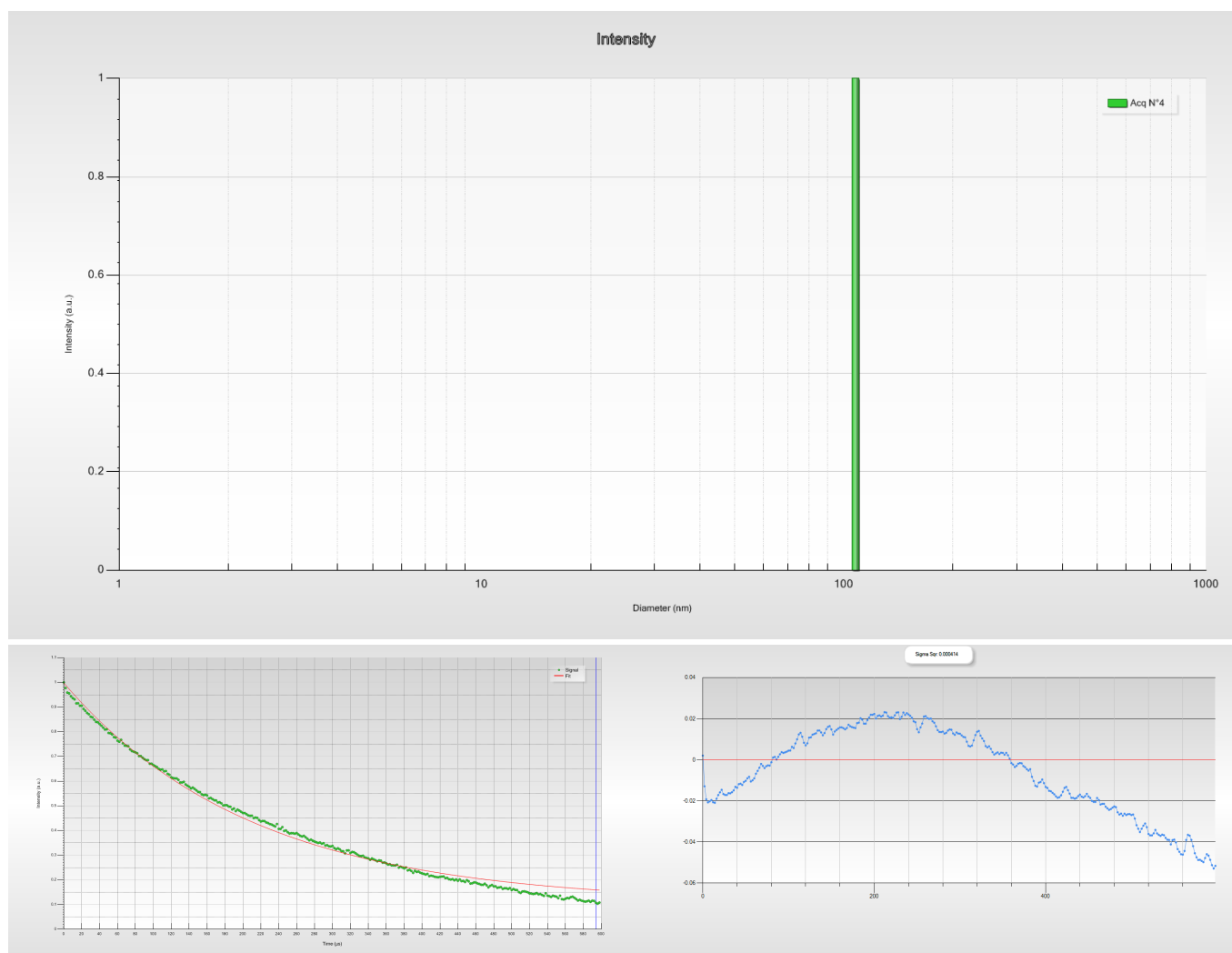
**Dv 50%:** 187.54 nm

**Dv 90%:** 495.2 nm

**Std Dev:** 60.27%

**Detected size(s)**

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



### Dispersion statistics

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

**Di 50%:** 107.68 nm

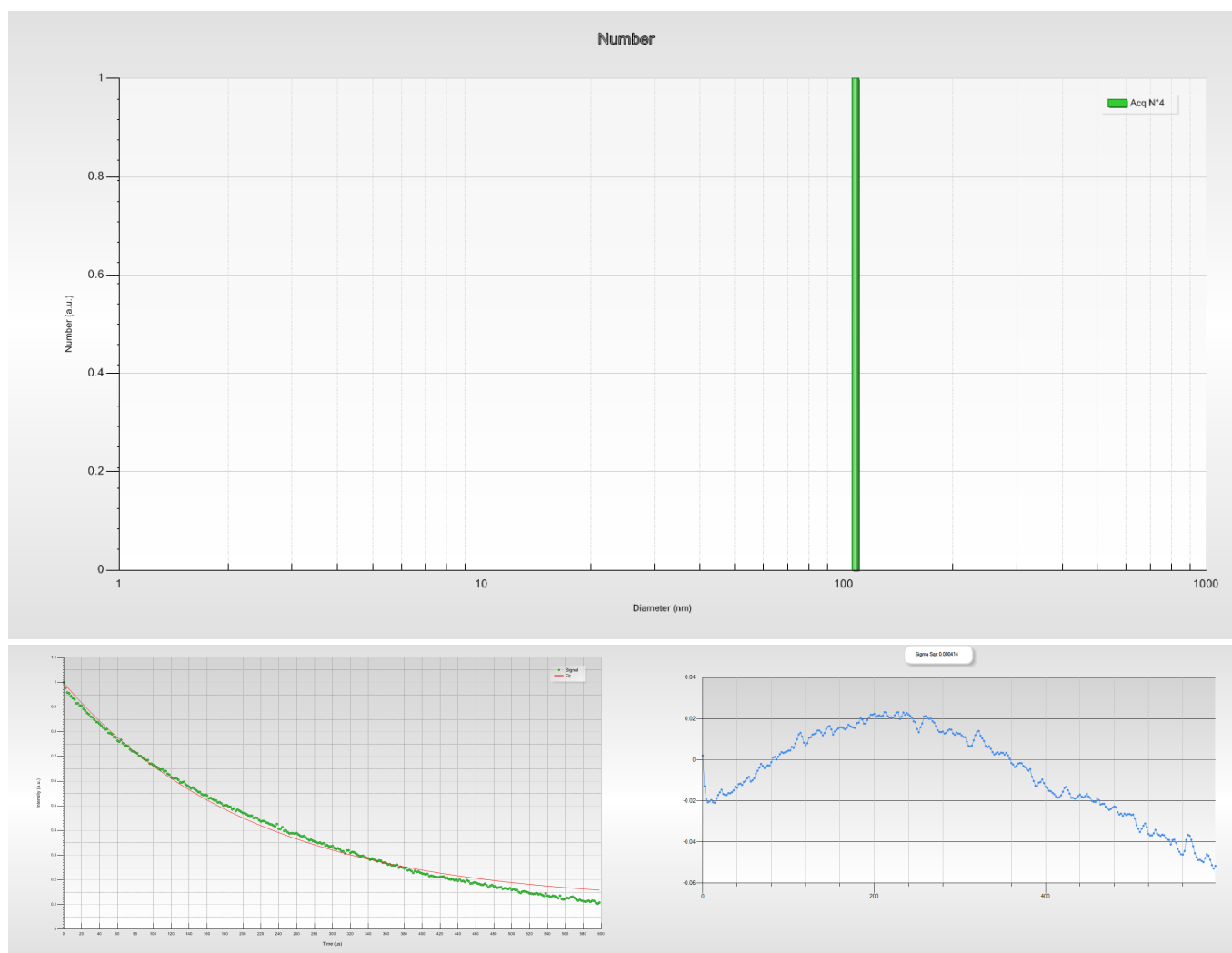
**Di 90%:** 107.68 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/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

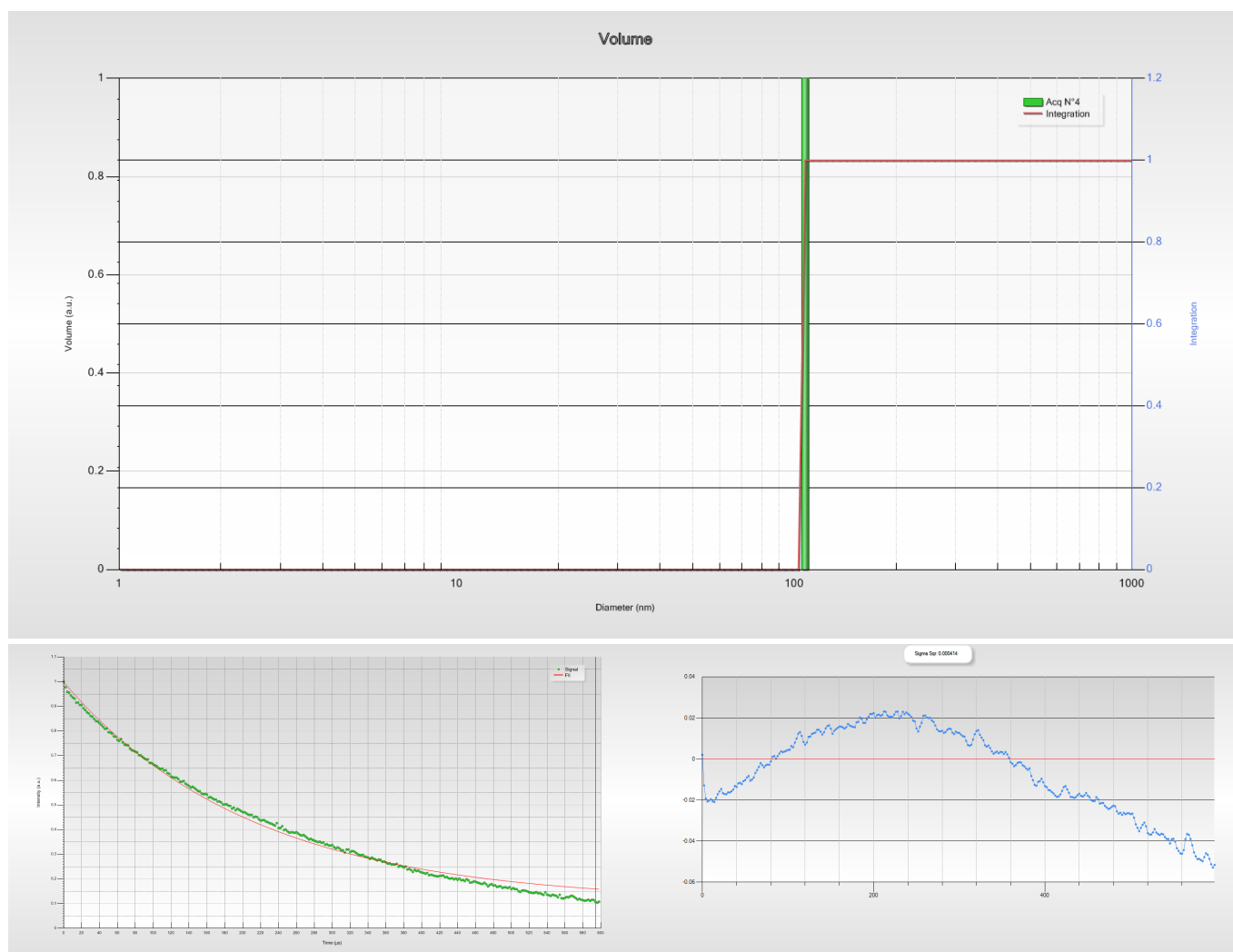
**Dn 90%:** 107.68 nm

### Detected size(s)

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

### Dispersion datas

Size (nm)	Number
107.68	1



### Dispersion statistics

**Dv 10%:** 107.68 nm  
**Mean Volume:** 107.68 nm

**Dv 50%:** 107.68 nm

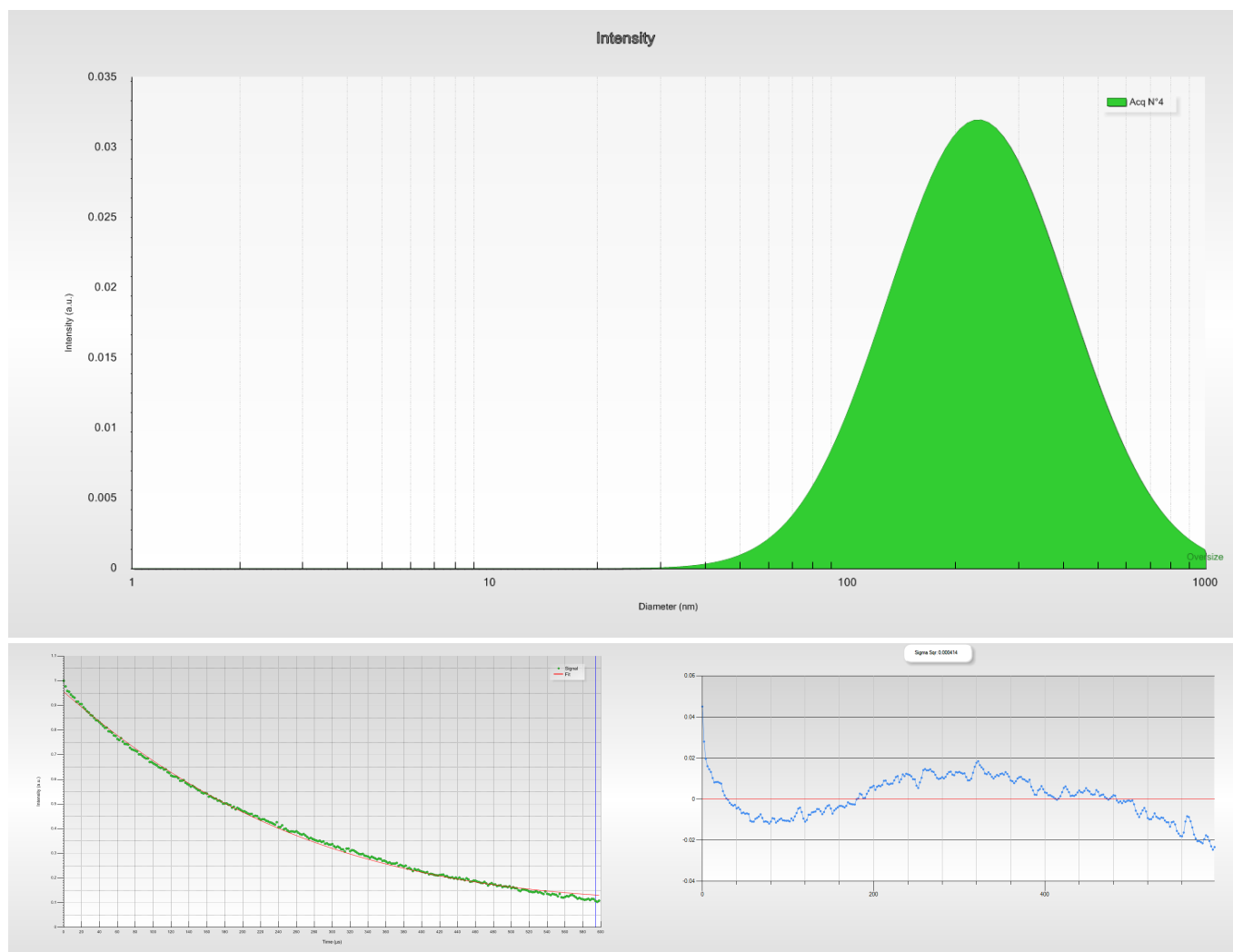
**Dv 90%:** 107.68 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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  
**Mean Intensity:** 268.8 nm  
**PDI** : 1.59763

**Di 50%:** 225.64 nm

**Di 90%:** 472.82 nm

**Std Dev:** 63.2%

**Detected size(s)**

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



**Distribution statistics**

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

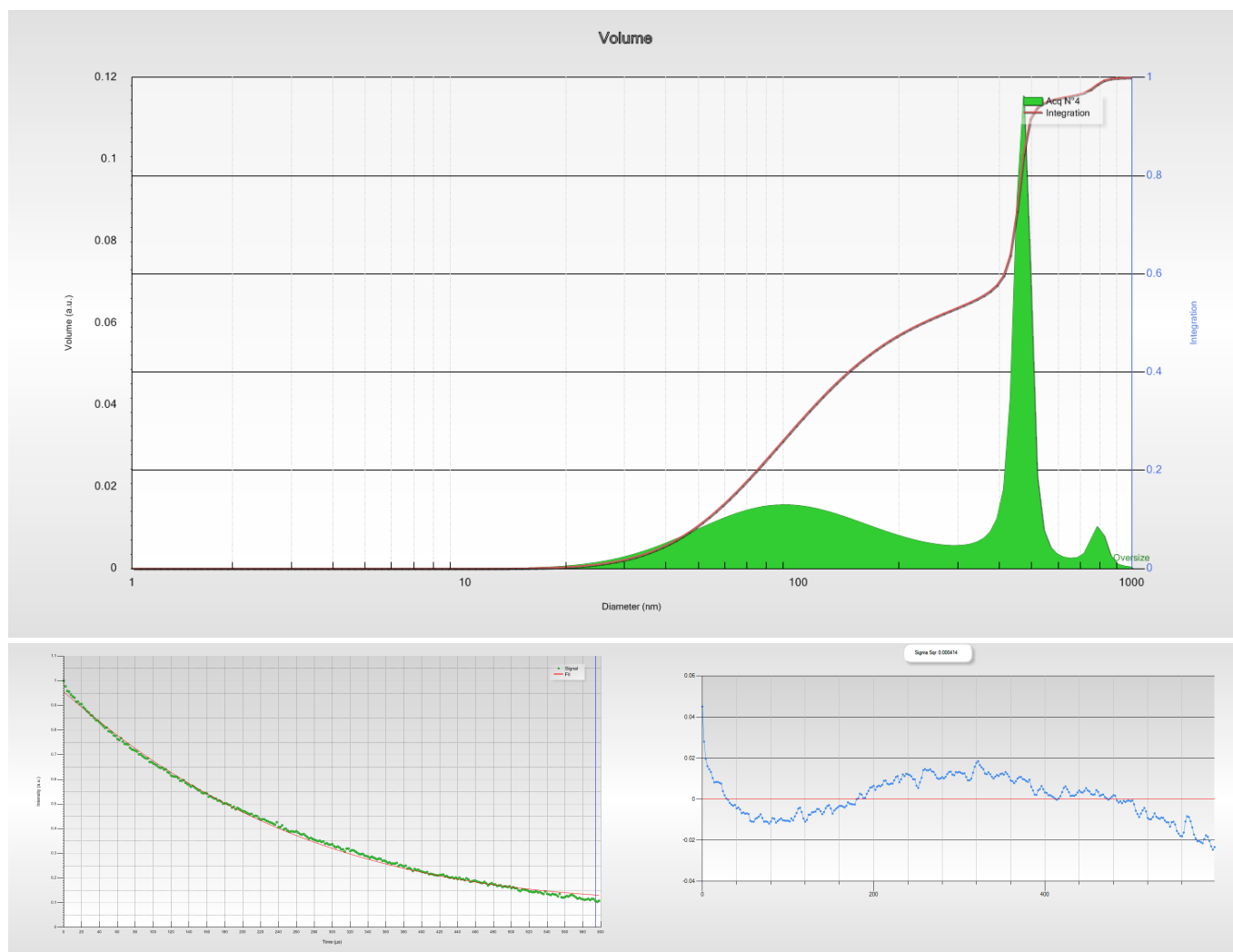
**Dn 50%:** 30.9 nm

**Dn 90%:** 67.81 nm

**Std Dev:** 63.2%

**Detected size(s)**

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

**Distribution statistics**

**Dv 10%:** 53.82 nm  
**Mean Volume:** 286.96 nm  
**PDI** : 1.59763

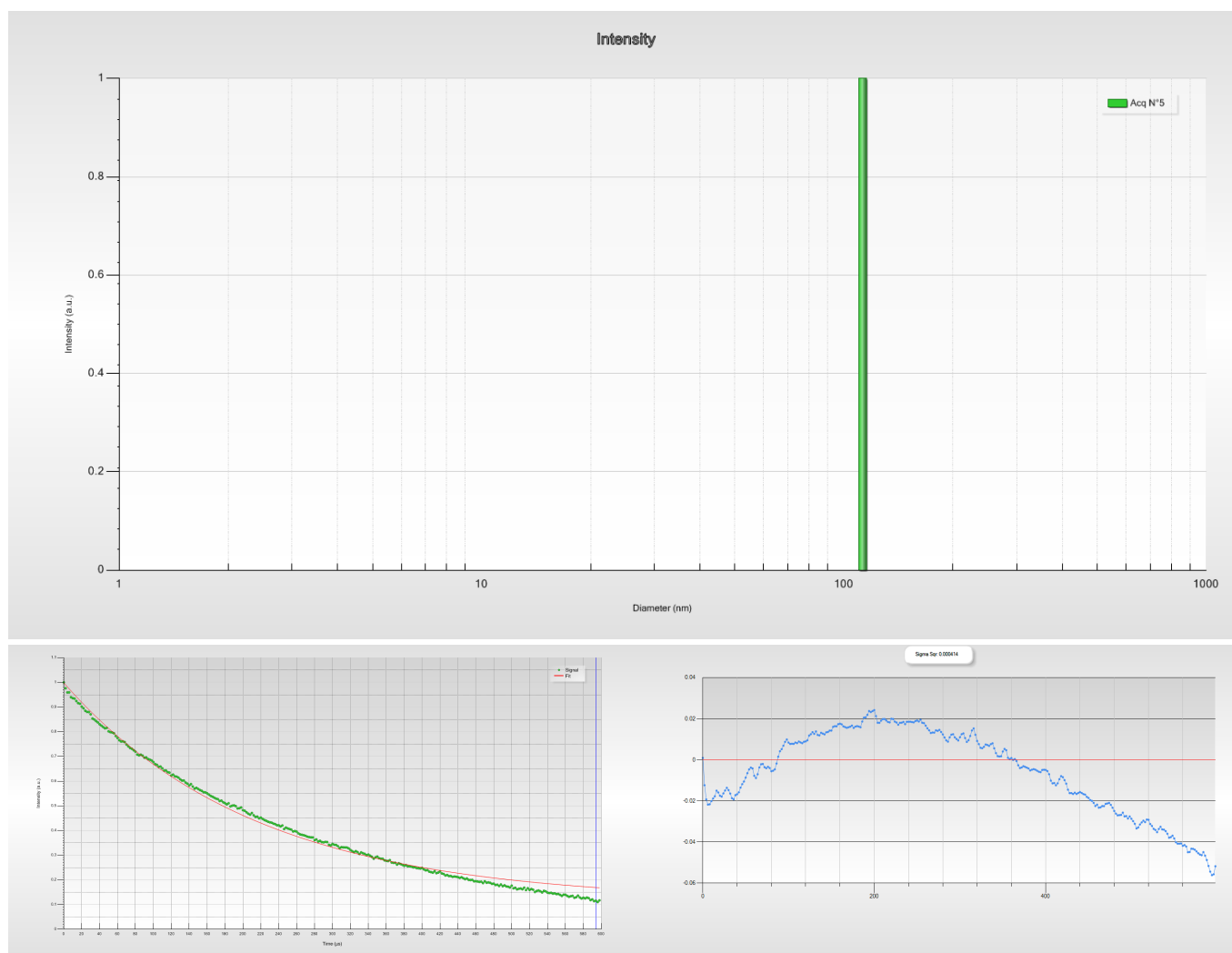
**Dv 50%:** 236.32 nm

**Dv 90%:** 495.2 nm

**Std Dev:** 63.2%

**Detected size(s)**

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



### Dispersion statistics

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

**Di 50%: 112.77 nm**

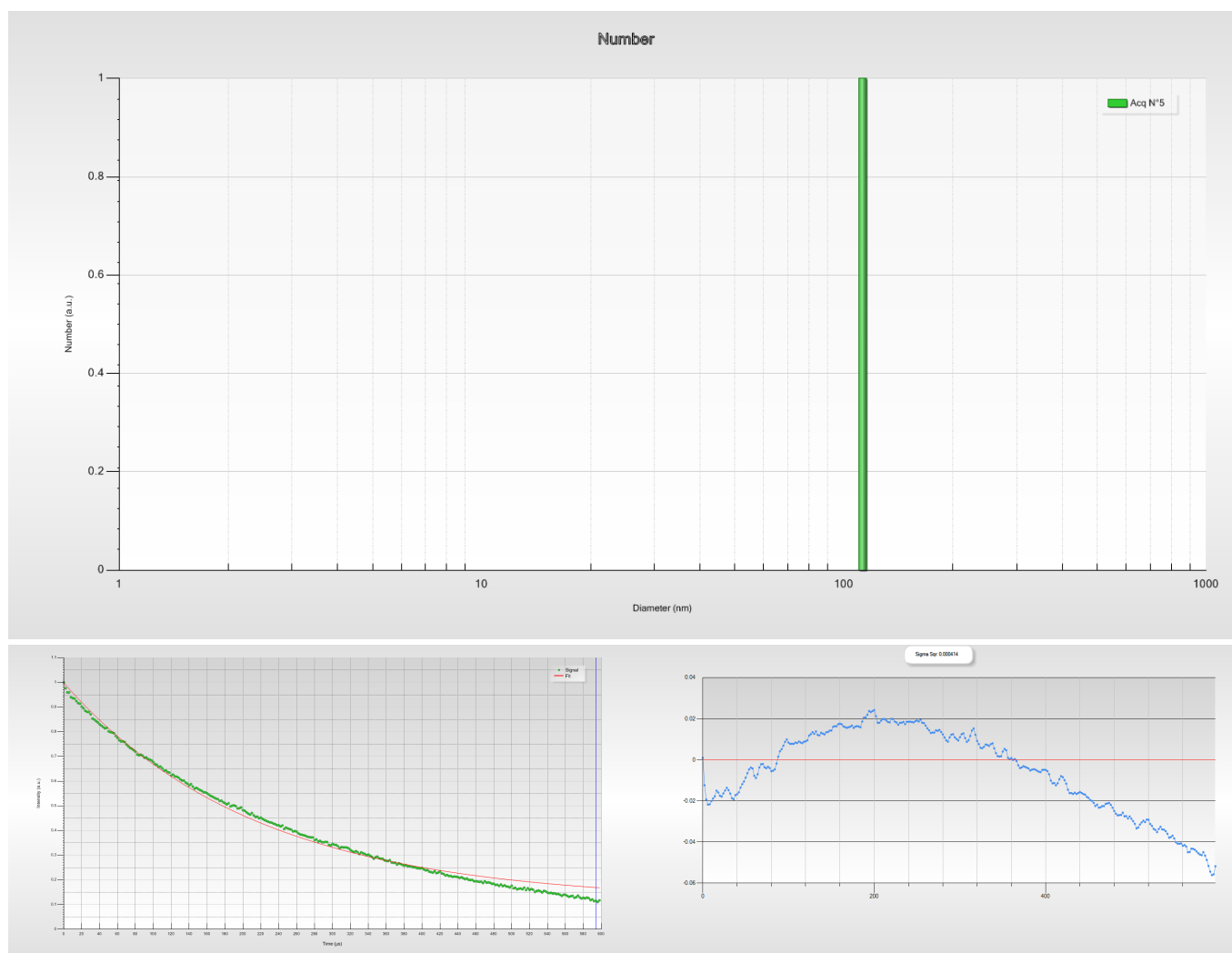
**Di 90%: 112.77 nm**

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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**

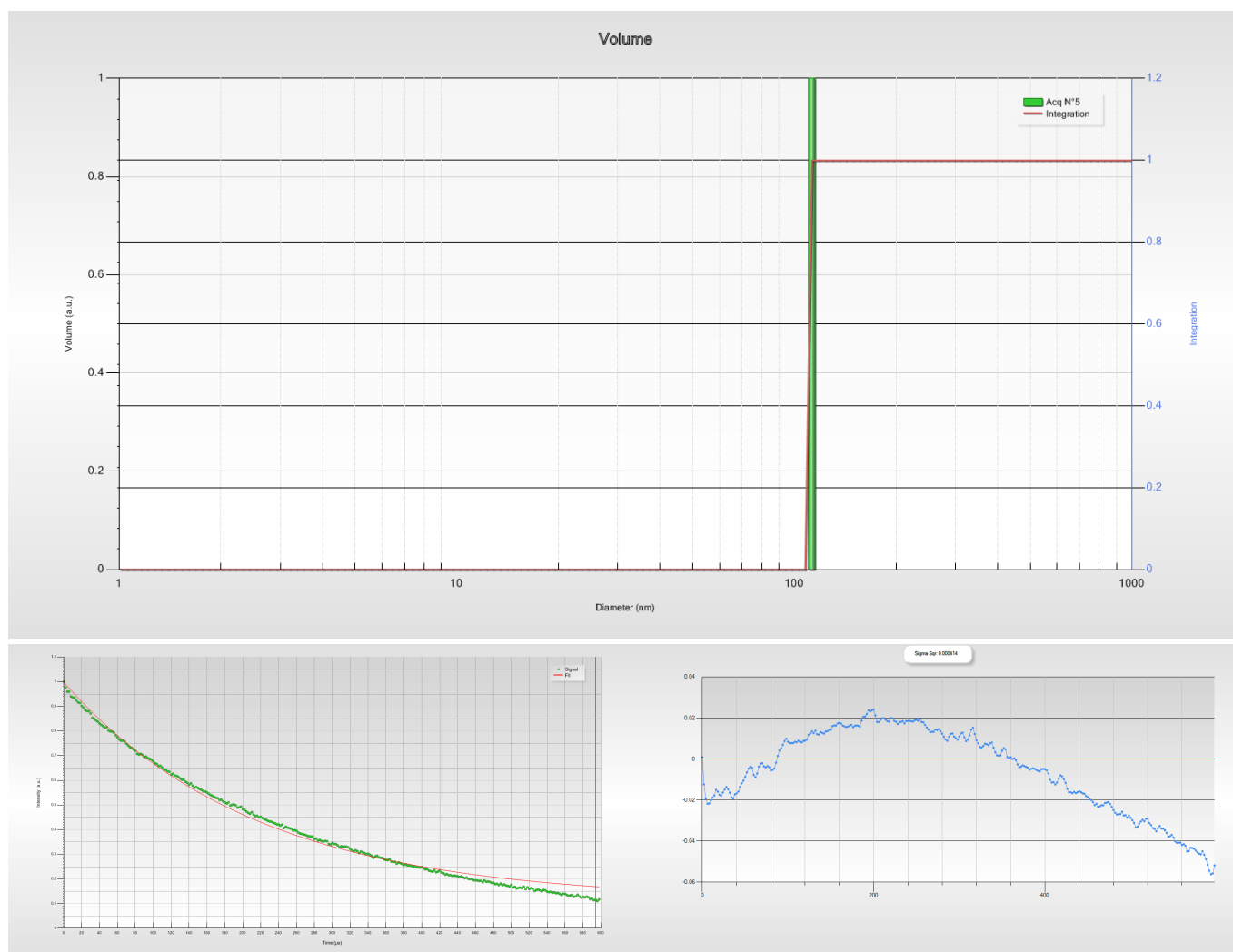
**Dn 90%: 112.77 nm**

### Detected size(s)

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

### Dispersion datas

Size (nm)	Number
112.77	1



### Dispersion statistics

**Dv 10%:** 112.77 nm  
**Mean Volume:** 112.77 nm

**Dv 50%:** 112.77 nm

**Dv 90%:** 112.77 nm

### Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m <sup>2</sup> /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)**

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

**Distribution statistics**

**Dn 10%:** 15.44 nm  
**Mean Number:** 39.22 nm  
**PDI** : 1.57108

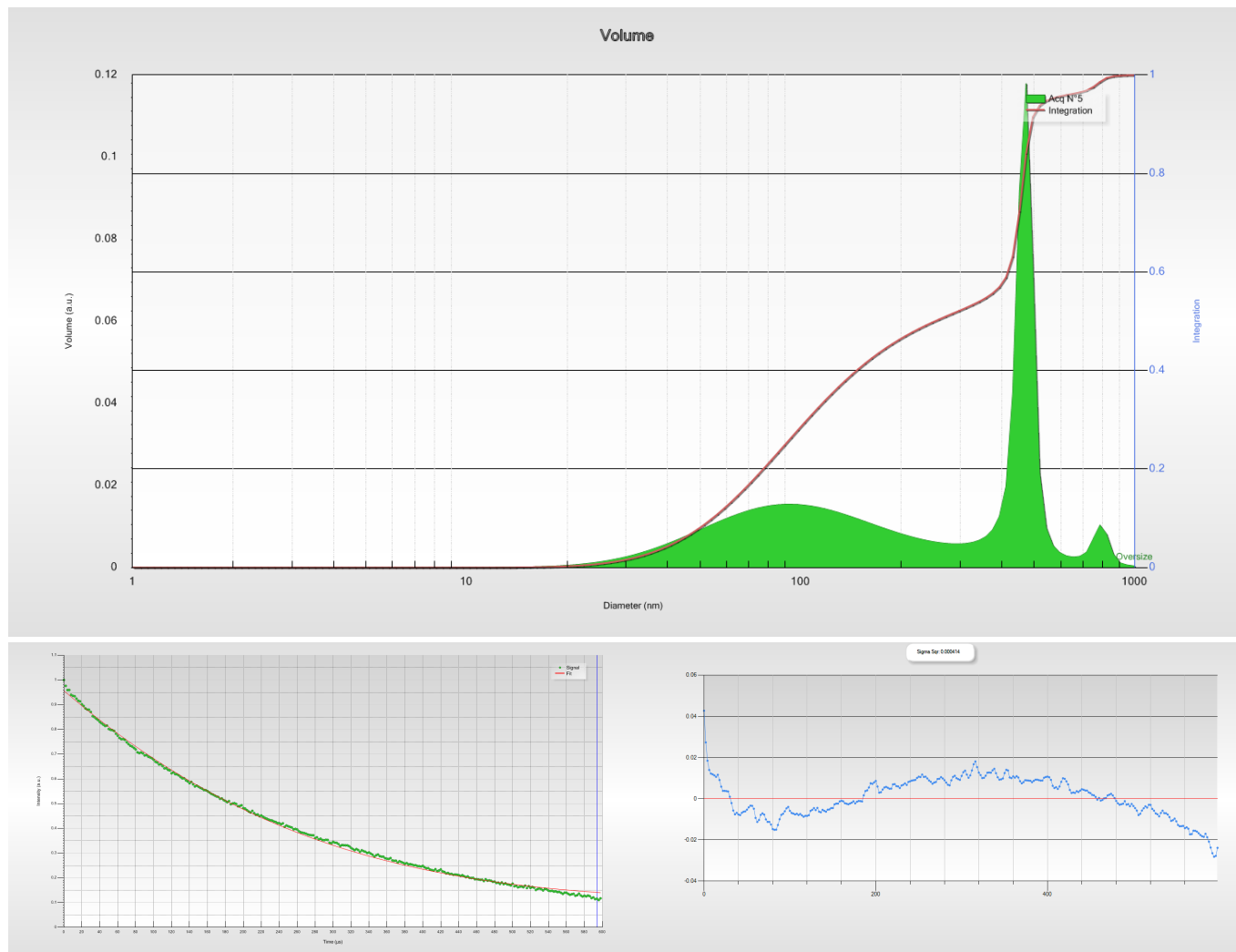
**Dn 50%:** 32.36 nm

**Dn 90%:** 67.81 nm

**Std Dev:** 62.67%

**Detected size(s)**

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



### Distribution statistics

**Dv 10%:** 56.36 nm  
**Mean Volume:** 291.17 nm  
**PDI** : 1.57108

**Dv 50%:** 259.21 nm

**Dv 90%:** 495.2 nm

**Std Dev:** 62.67%

### Detected size(s)

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