

Sample

Name : GNP_11.4.16_1.24_5k_2
Mesured On : 11.04.2016 15:48
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	: 60.1 %	Wavelength	: 657 nm
DTC Position	: UP		

Liquid Medium

Refractive index	: 1.331	Viscosity	: 0.888 cP
-------------------------	---------	------------------	------------

Particles

Real part	: 1.56	Imaginary part	: 0.01
------------------	--------	-----------------------	--------

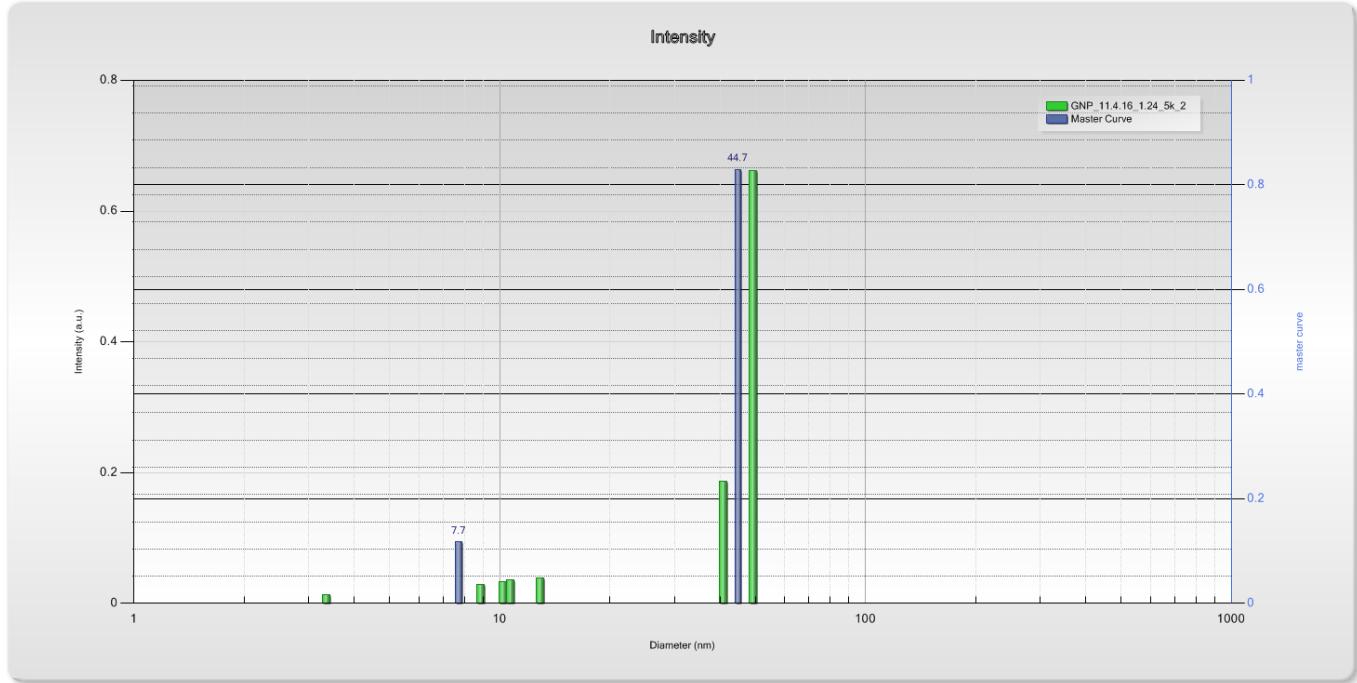
Algorithm

Pade Laplace	Cumulants
--------------	-----------

Measurement

Average count rate : 2921 kcps
Number of rejected : 0

Duration : 00:05:09
Number of modified : 0



Dispersion statistics

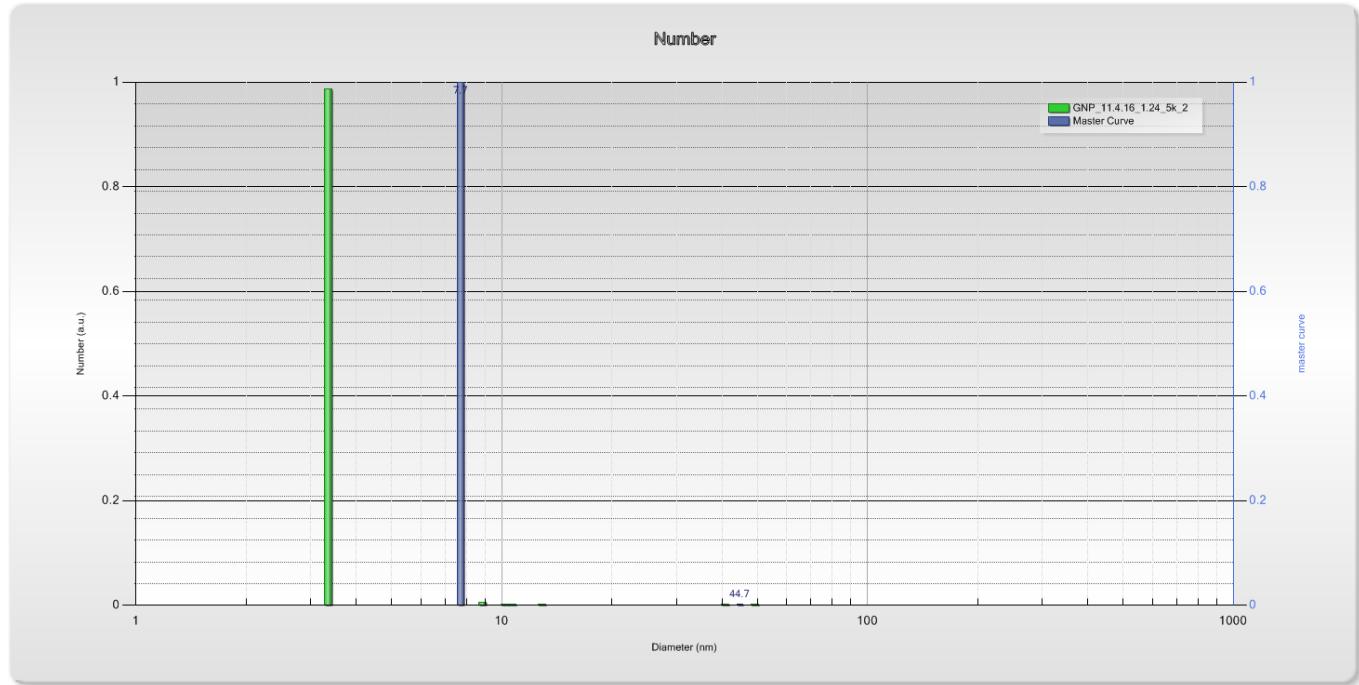
Di 10%: 10.67 nm

Di 50%: 49.06 nm

Di 90%: 49.06 nm

Dispersion data

Size (nm)	Intensity						
3.36	0.01	10.19	0.03	12.84	0.04	49.06	0.66
8.87	0.03	10.67	0.04	40.78	0.19		



Dispersion statistics

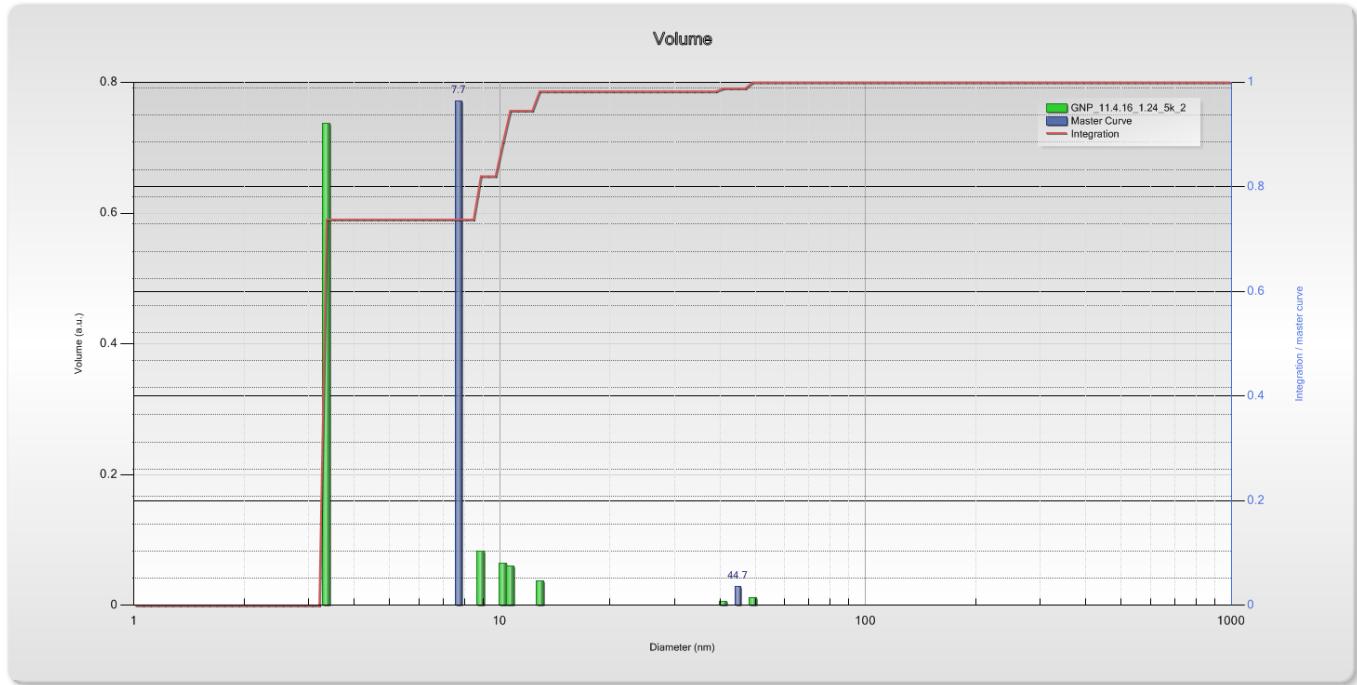
D_n 10%: 3.36 nm

D_n 50%: 3.36 nm

D_n 90%: 3.36 nm

Dispersion data

Size (nm)	Number	Size (nm)	Number
3.36	0.99	8.87	0.01



Dispersion statistics

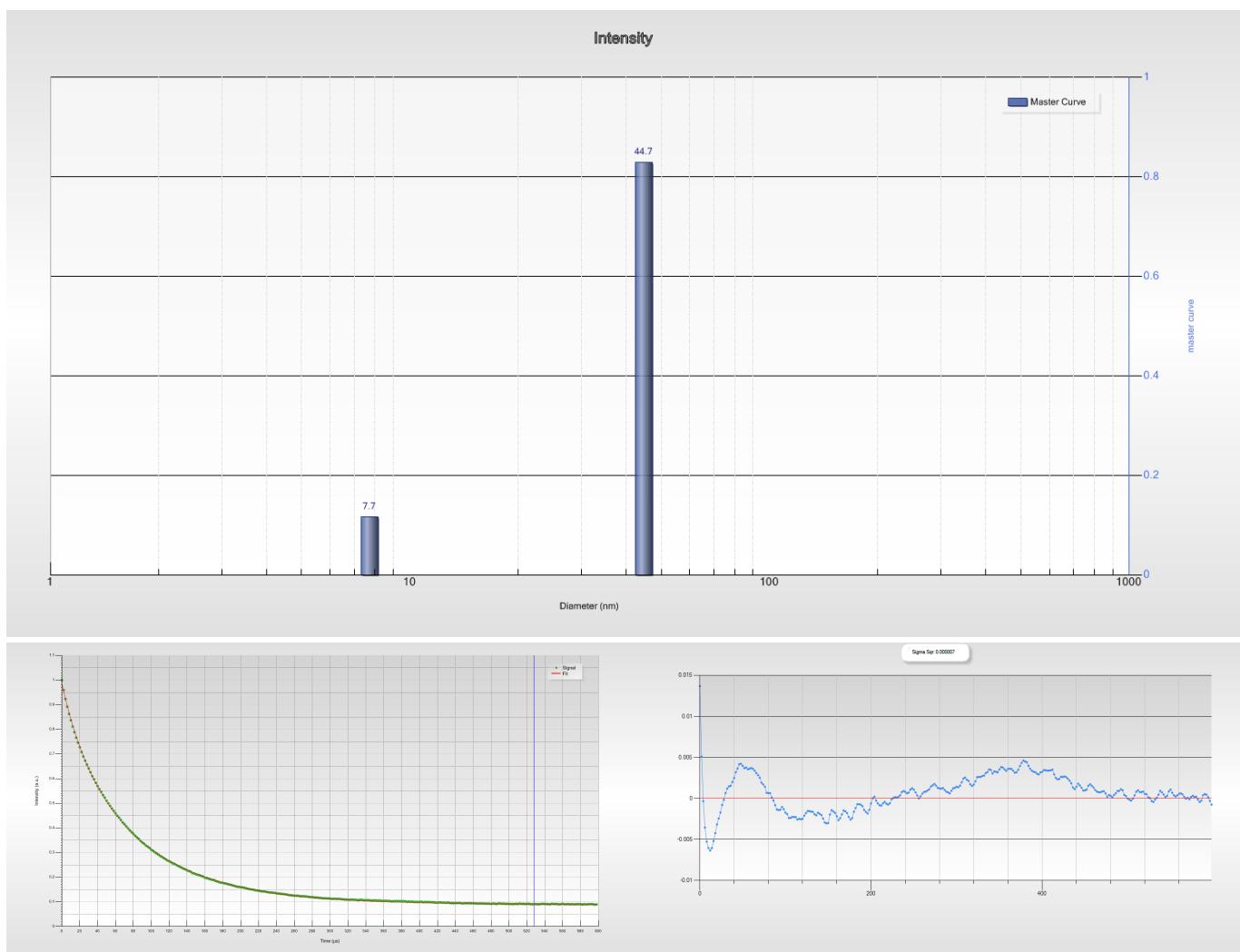
$Dv\ 10\%:$ 3.36 nm

$Dv\ 50\%:$ 3.36 nm

$Dv\ 90\%:$ 10.67 nm

Dispersion data

Size (nm)	Volume						
3.36	0.74	10.19	0.06	12.84	0.04	49.06	0.01
8.87	0.08	10.67	0.06	40.78	0.01		



Dispersion statistics

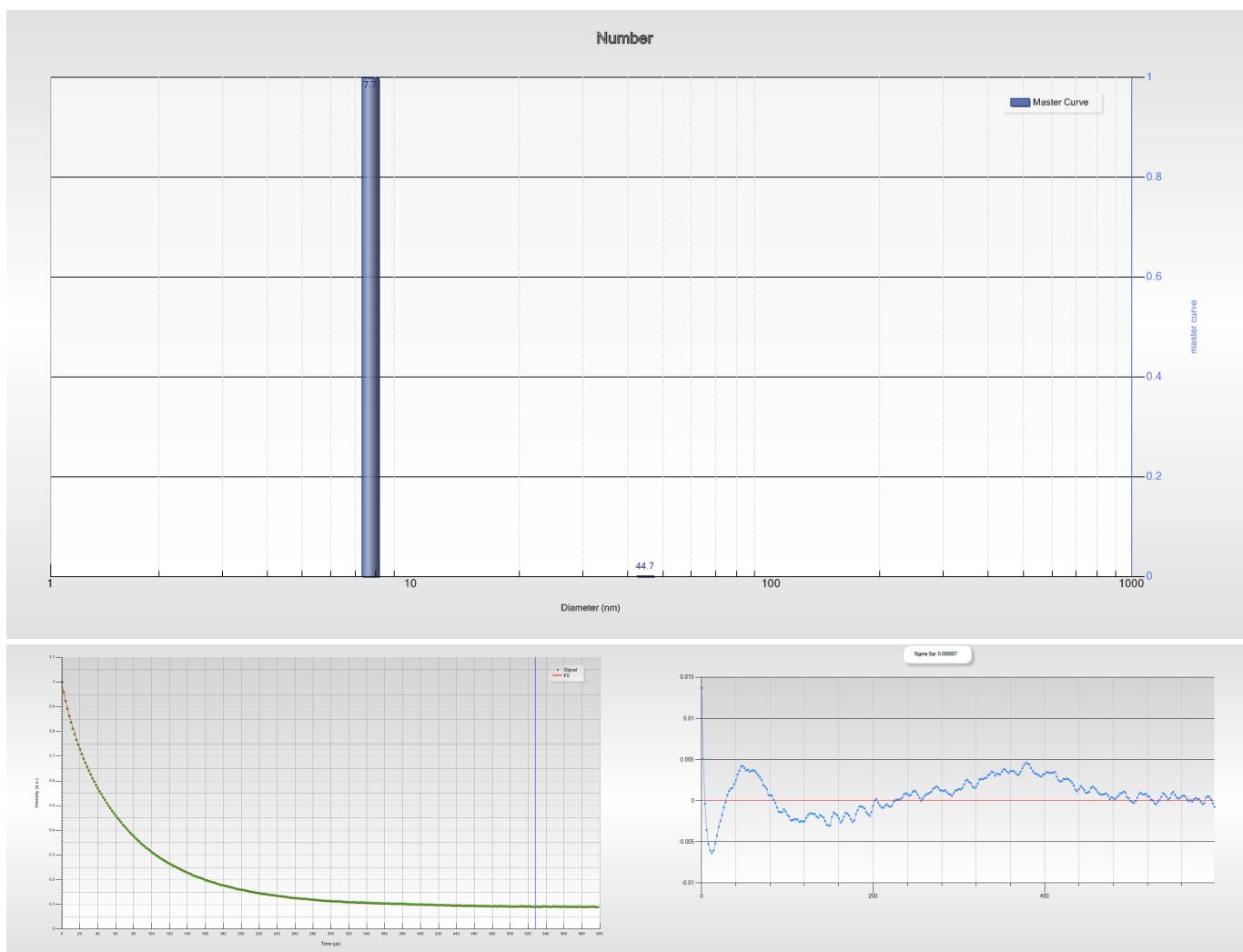
Di 10%: 7.72 nm **Di 50%:** 44.73 nm **Di 90%:** 44.73 nm
Mean Intensity: 40.15 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
7.75	0.12	33512.4	63.40002E-012
45.69	0.83	5685.59	10.75622E-012

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
7.72	0.12	44.73	0.88



Dispersion statistics

Dn 10%: 7.72 nm
Mean Number: 7.73 nm

Dn 50%: 7.72 nm

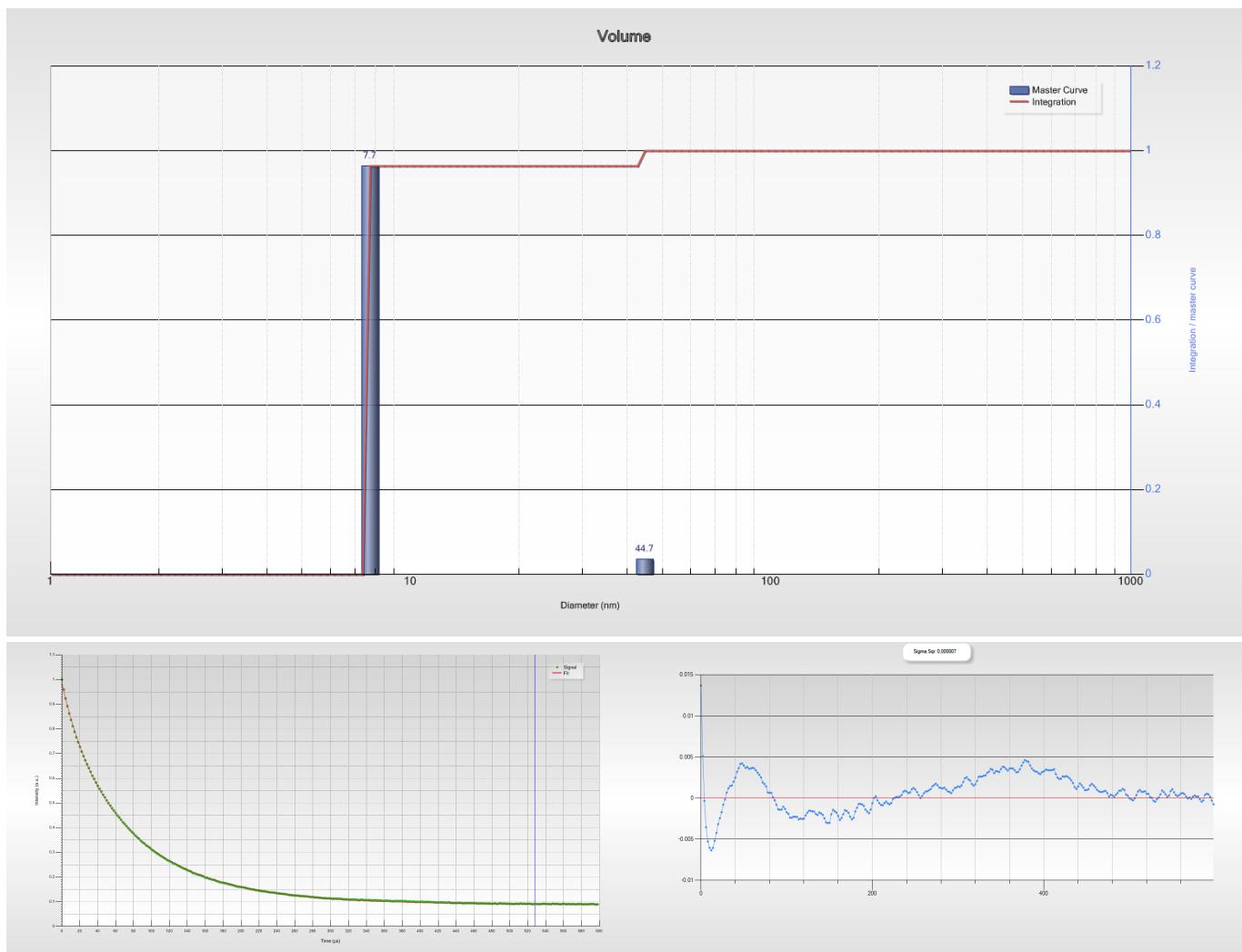
Dn 90%: 7.72 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
7.75	0.12	33512.4	63.40002E-012
45.69	0.83	5685.59	10.75622E-012

Dispersion data

Size (nm)	Number
7.72	1



Dispersion statistics

D_v 10%: 7.72 nm
Mean Volume: 9.04 nm

D_v 50%: 7.72 nm

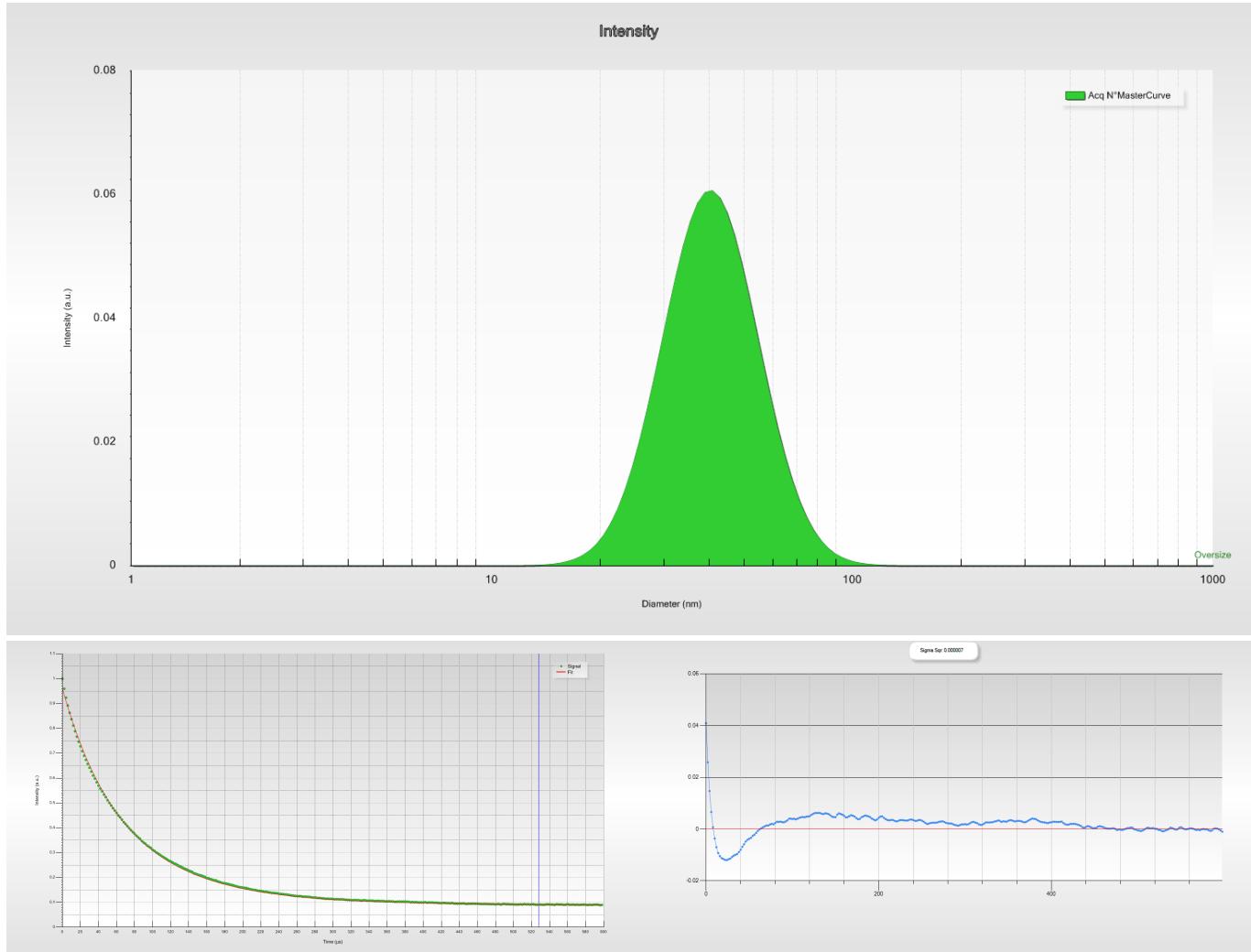
D_v 90%: 7.72 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
7.75	0.12	33512.4	63.40002E-012
45.69	0.83	5685.59	10.75622E-012

Dispersion data

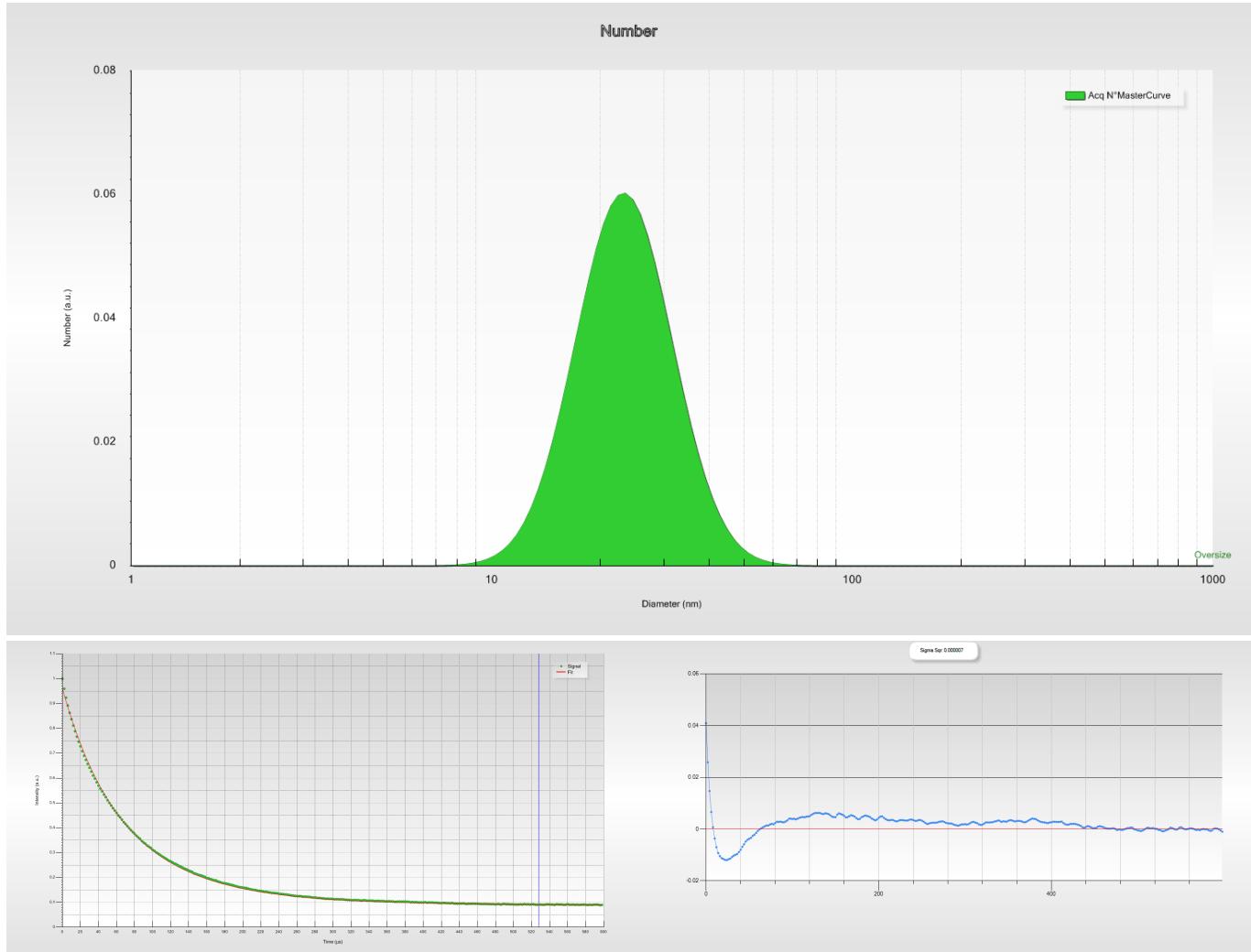
Size (nm)	Volume	Size (nm)	Volume
7.72	0.96	44.73	0.04

**Distribution statistics**

Di 10%: 26.9 nm	Di 50%: 40.78 nm	Di 90%: 59.03 nm
Mean Intensity: 42.18 nm		
PDI : 0.3871		Std Dev: 31.11%

Detected size(s)

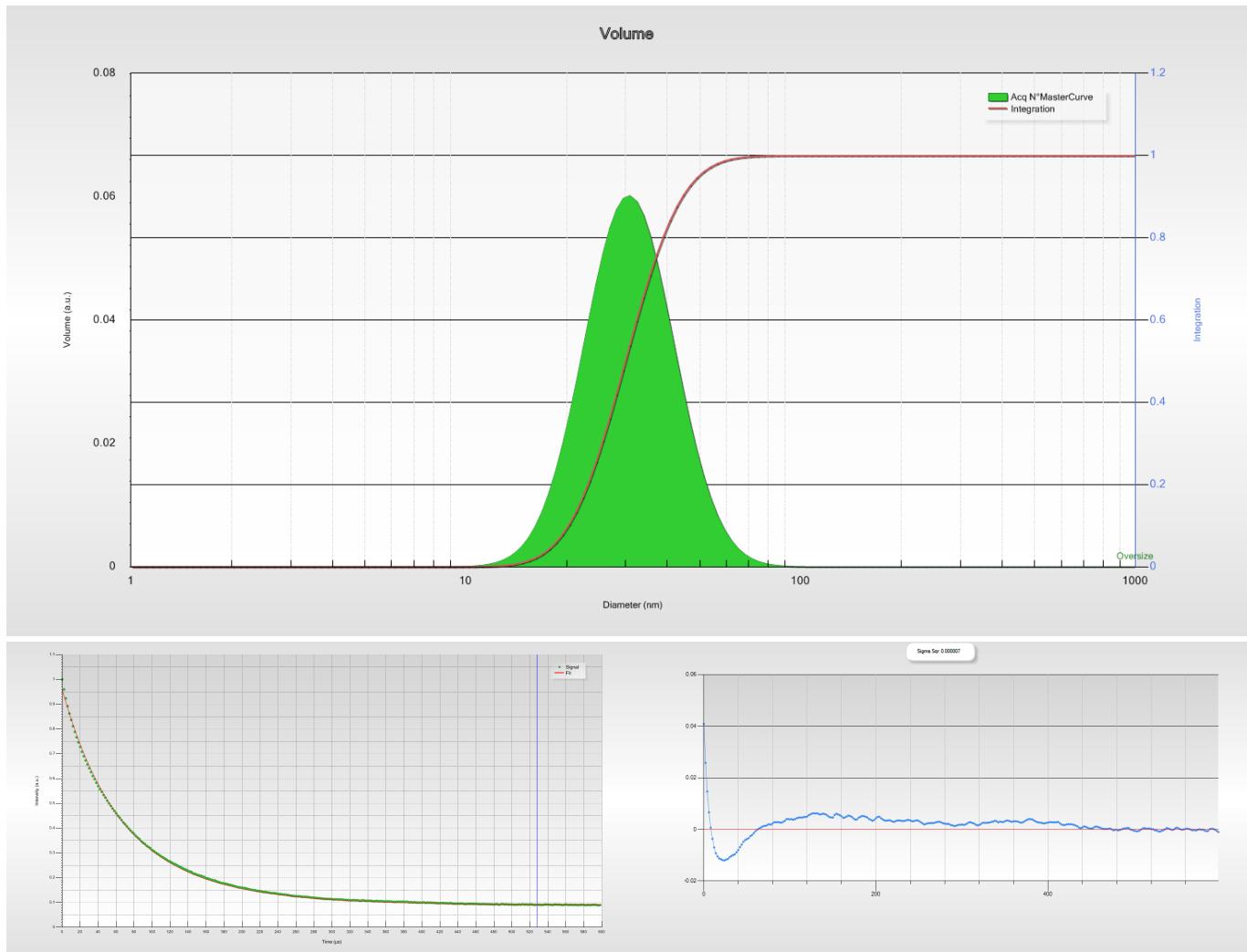
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.05	0.87	7410.94	14.02029E-012

**Distribution statistics**

Dn 10%: 15.44 nm	Dn 50%: 23.41 nm	Dn 90%: 33.89 nm
Mean Number: 24.28 nm		
PDI : 0.3871		Std Dev: 31.11%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.05	0.87	7410.94	14.02029E-012



Distribution statistics

D_v 10%: 20.38 nm
Mean Volume: 32.17 nm
PDI : 0.3871

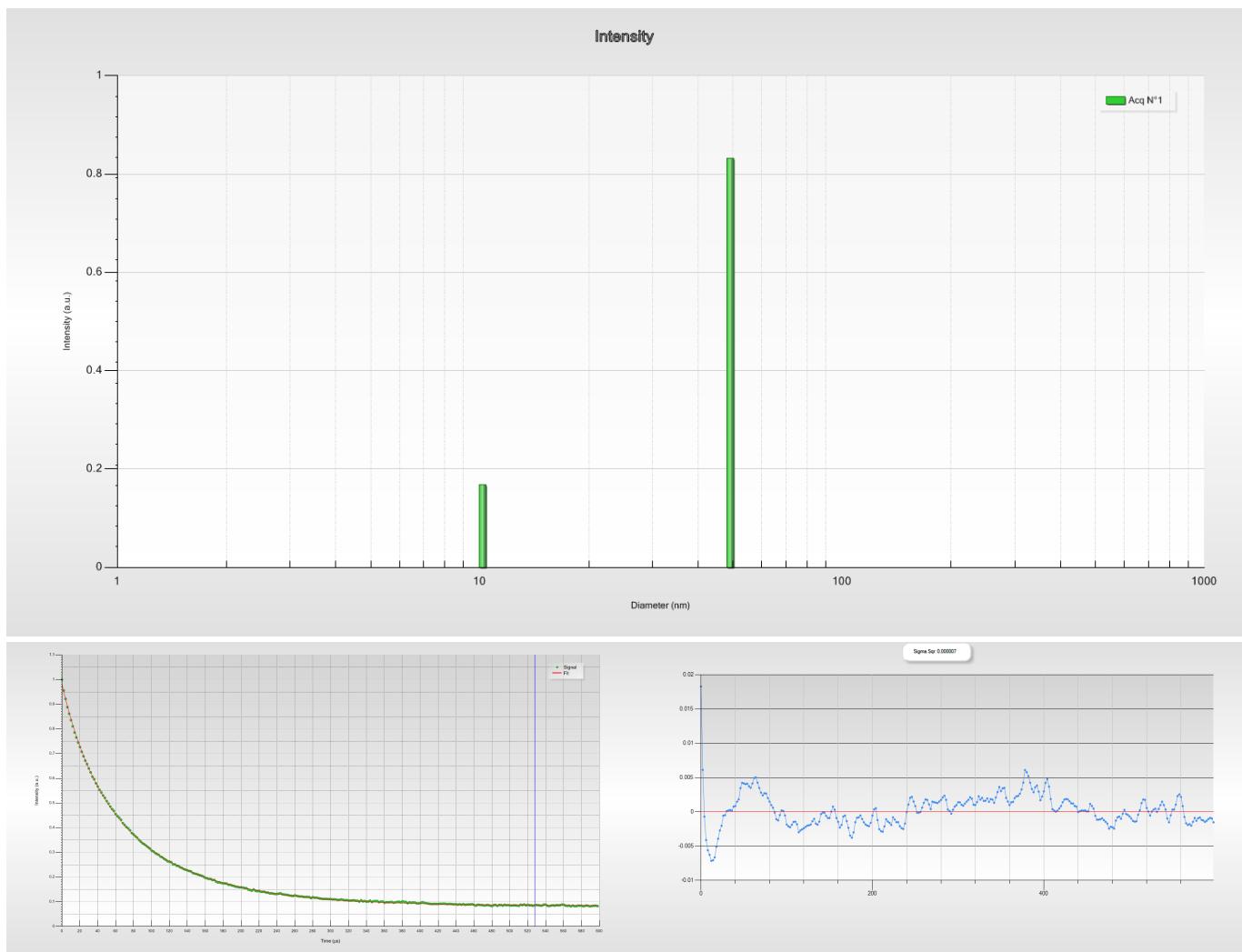
D_v 50%: 30.9 nm

D_v 90%: 44.73 nm

Std Dev: 31.11%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.05	0.87	7410.94	14.02029E-012



Dispersion statistics

Di 10%: 10.19 nm
Mean Intensity: 42.53 nm

Di 50%: 49.06 nm

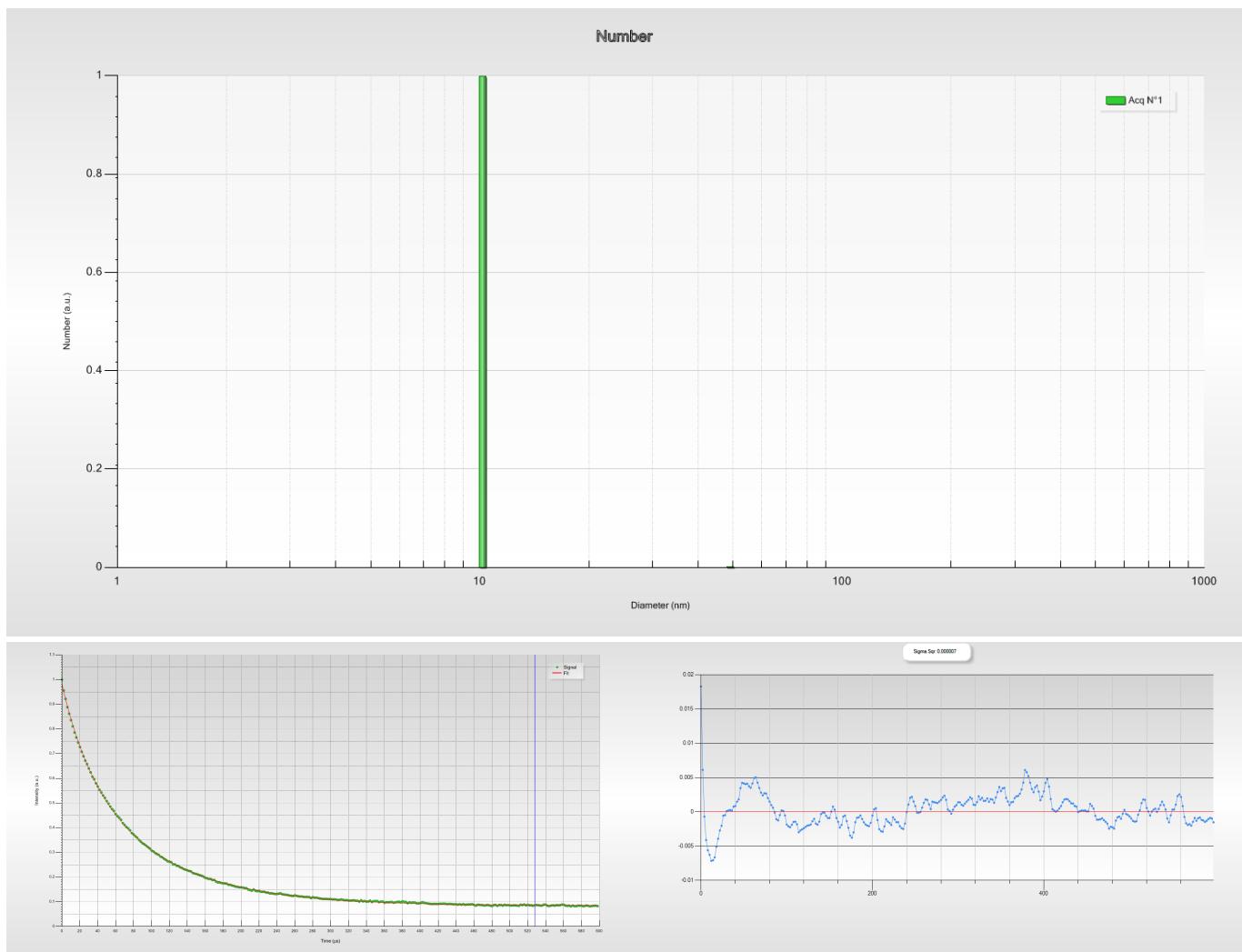
Di 90%: 49.06 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.04	0.16	25864.15	48.93077E-012
49.14	0.79	5286.99	10.00213E-012

Dispersion datas

Size (nm)	Intensity	Size (nm)	Intensity
10.19	0.17	49.06	0.83



Dispersion statistics

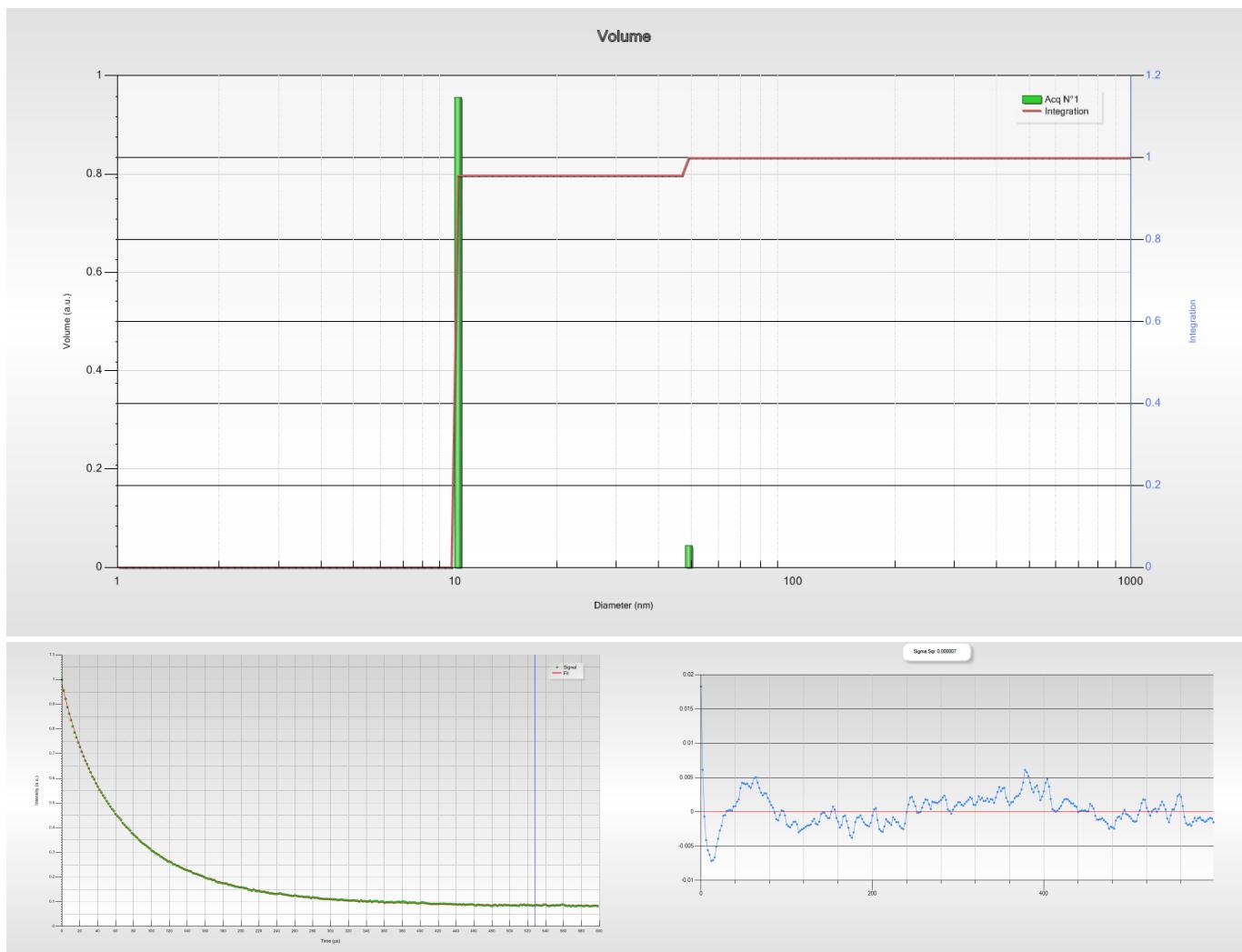
Dn 10%: 10.19 nm Dn 50%: 10.19 nm Dn 90%: 10.19 nm
 Mean Number: 10.2 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.04	0.16	25864.15	48.93077E-012
49.14	0.79	5286.99	10.00213E-012

Dispersion data

Size (nm)	Number
10.19	1



Dispersion statistics

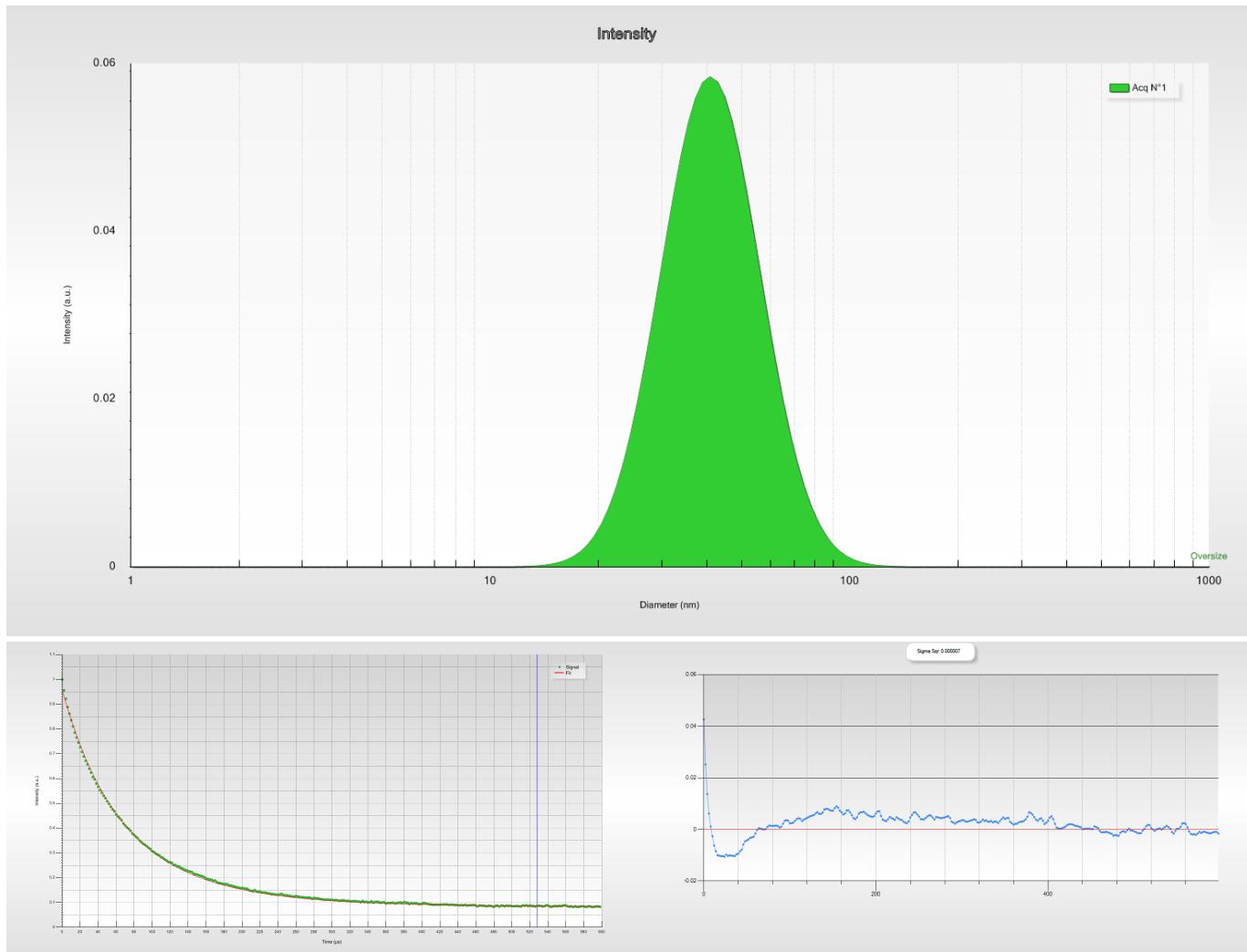
Dv 10%: 10.19 nm **Dv 50%:** 10.19 nm **Dv 90%:** 10.19 nm
Mean Volume: 11.88 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.04	0.16	25864.15	48.93077E-012
49.14	0.79	5286.99	10.00213E-012

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
10.19	0.96	49.06	0.04



Distribution statistics

Di 10%: 26.9 nm **Di 50%:** 40.78 nm **Di 90%:** 61.83 nm
Mean Intensity: 42.95 nm **Std Dev:** 32.37%
PDI : 0.41924

Detected size(s)

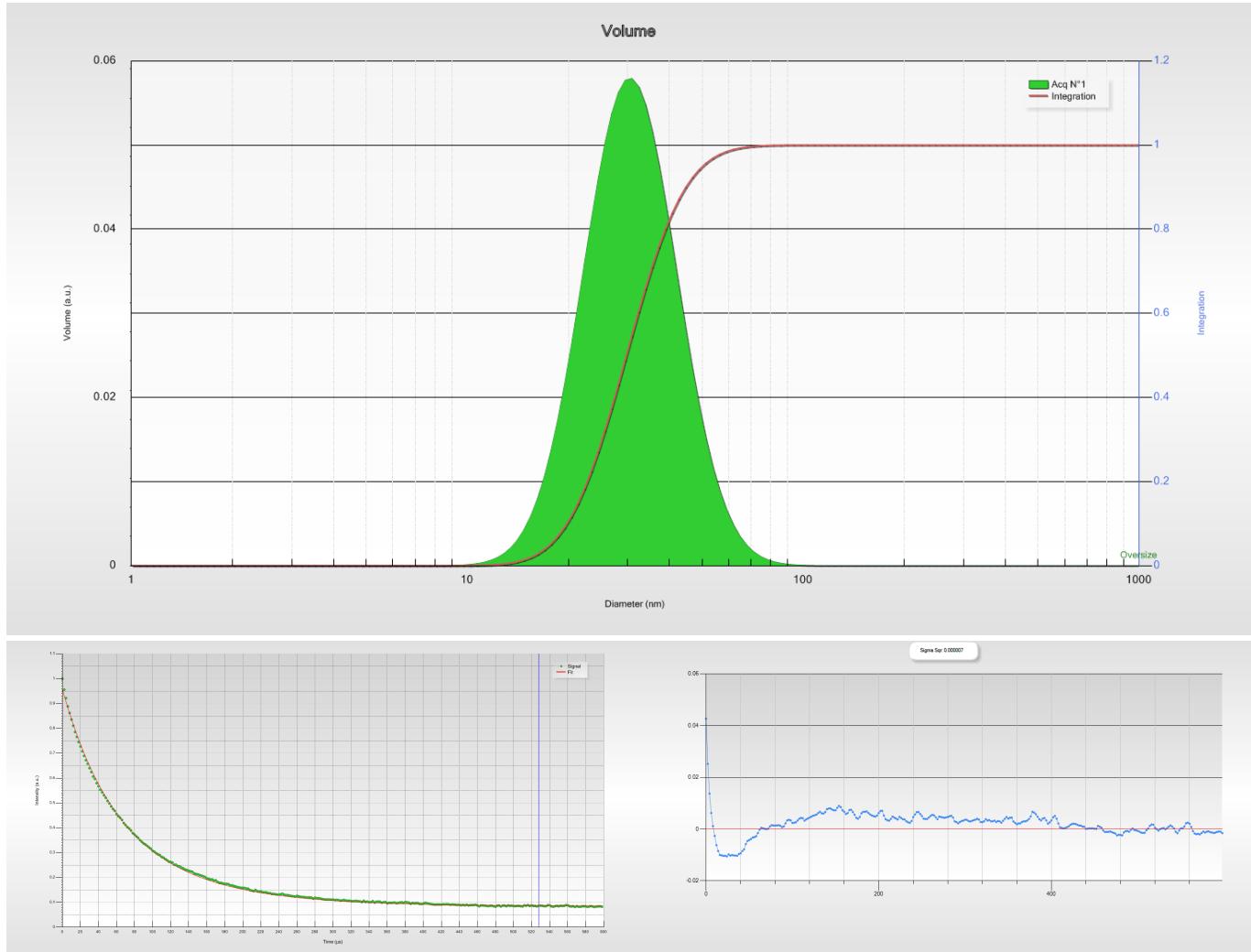
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.18	0.87	7384.24	13.96978E-012

**Distribution statistics**

Dn 10%: 14.75 nm	Dn 50%: 22.36 nm	Dn 90%: 33.89 nm
Mean Number: 23.67 nm		
PDI : 0.41924		Std Dev: 32.37%

Detected size(s)

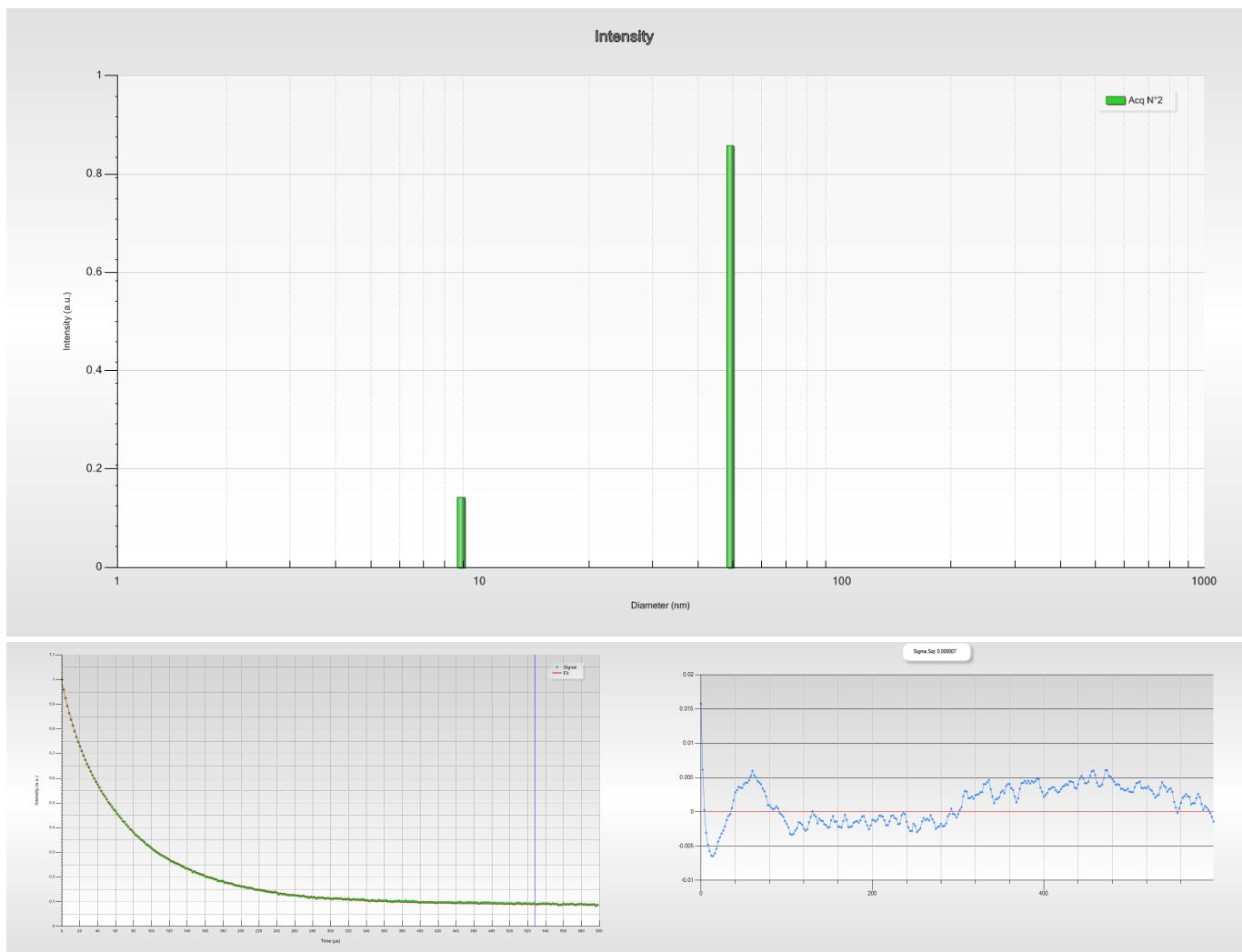
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.18	0.87	7384.24	13.96978E-012

**Distribution statistics**

D_v 10%: 20.38 nm	D_v 50%: 30.9 nm	D_v 90%: 46.85 nm
Mean Volume: 32.06 nm		
PDI : 0.41924		Std Dev: 32.37%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.18	0.87	7384.24	13.96978E-012



Dispersion statistics

Di 10%: 8.87 nm

Mean Intensity: 43.32 nm

Di 50%: 49.06 nm

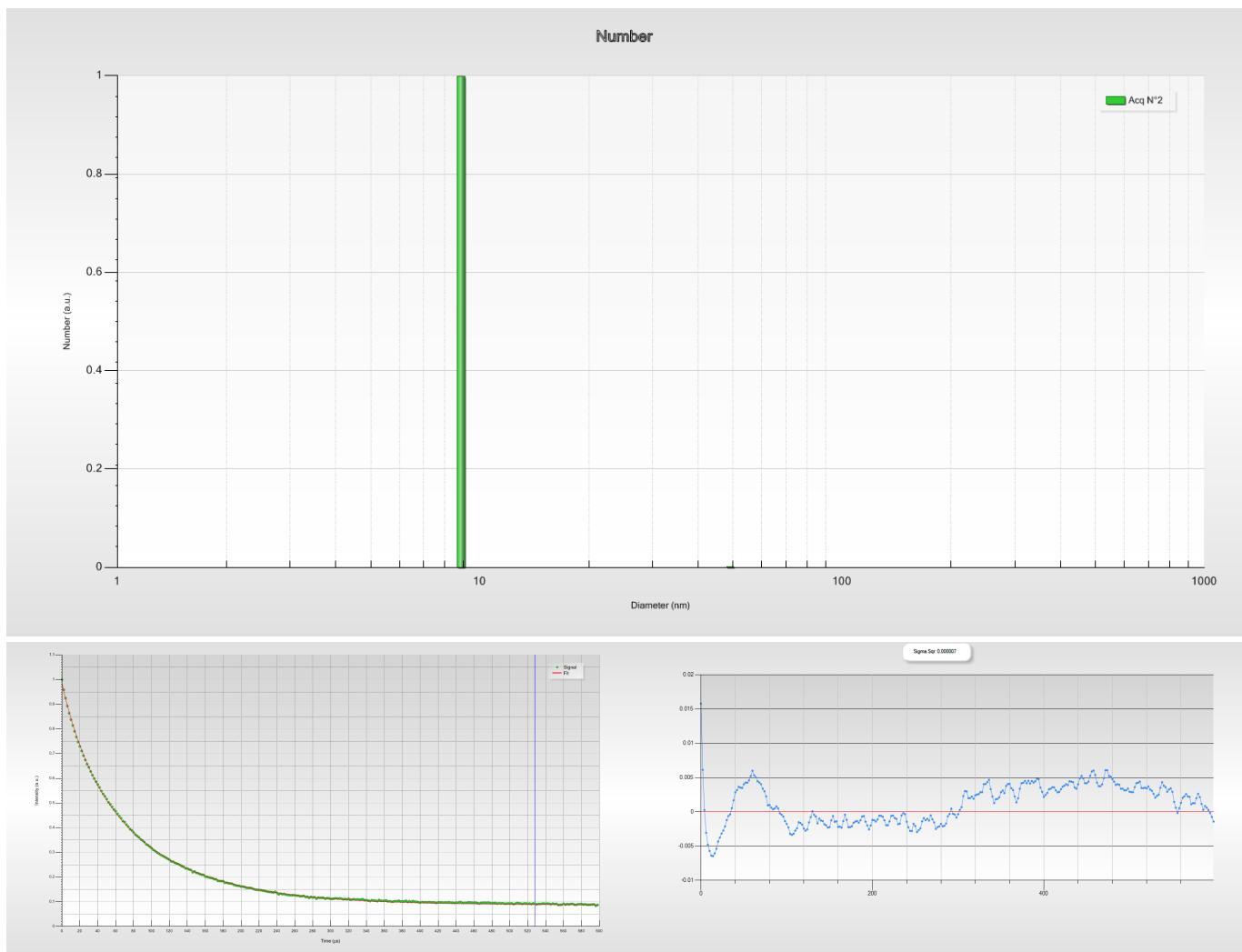
Di 90%: 49.06 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.76	0.14	29649.74	56.09251E-012
48.42	0.81	5365.79	10.1512E-012

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
8.87	0.14	49.06	0.86



Dispersion statistics

Dn 10%: 8.87 nm
Mean Number: 8.88 nm

Dn 50%: 8.87 nm

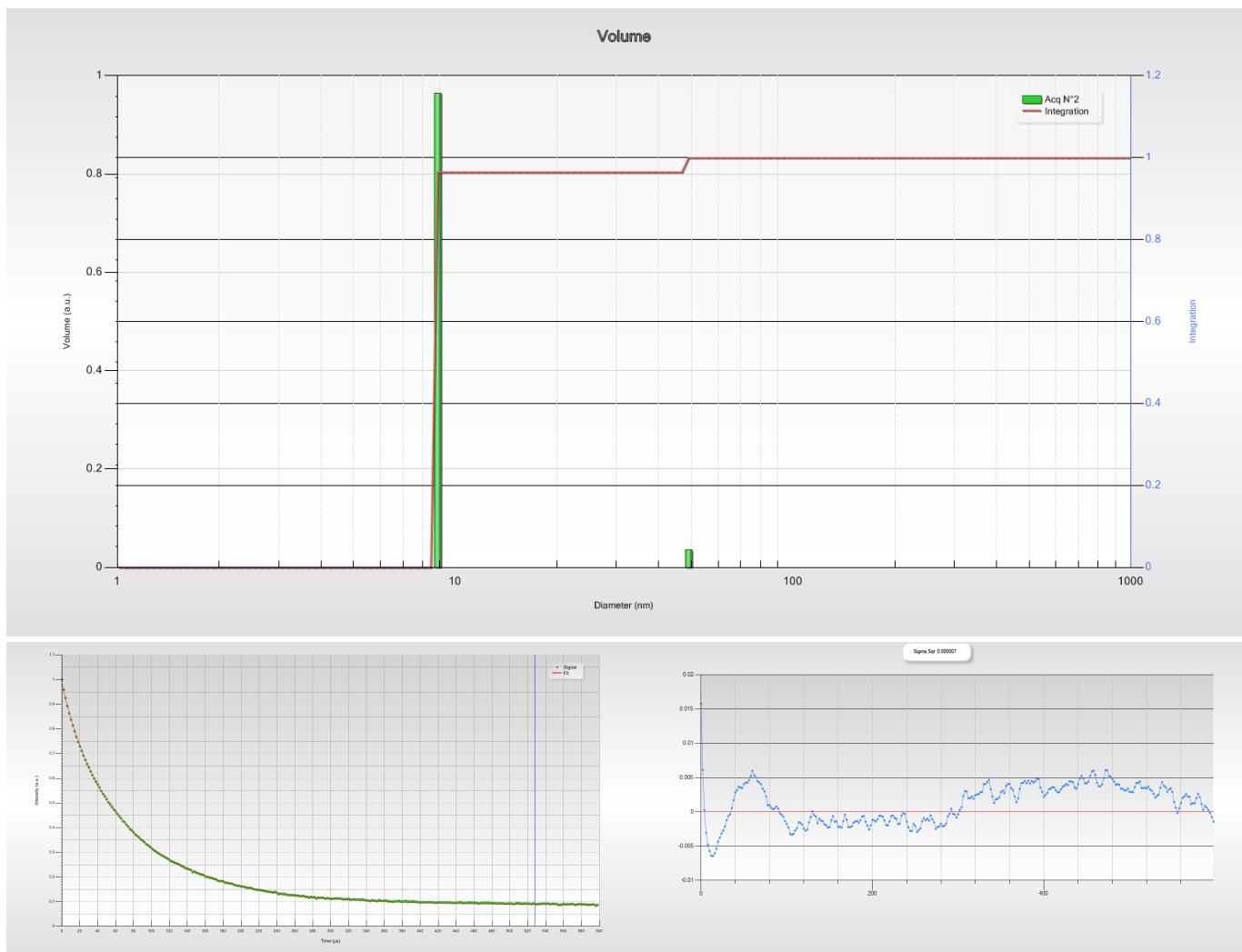
Dn 90%: 8.87 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.76	0.14	29649.74	56.09251E-012
48.42	0.81	5365.79	10.1512E-012

Dispersion datas

Size (nm)	Number
8.87	1



Dispersion statistics

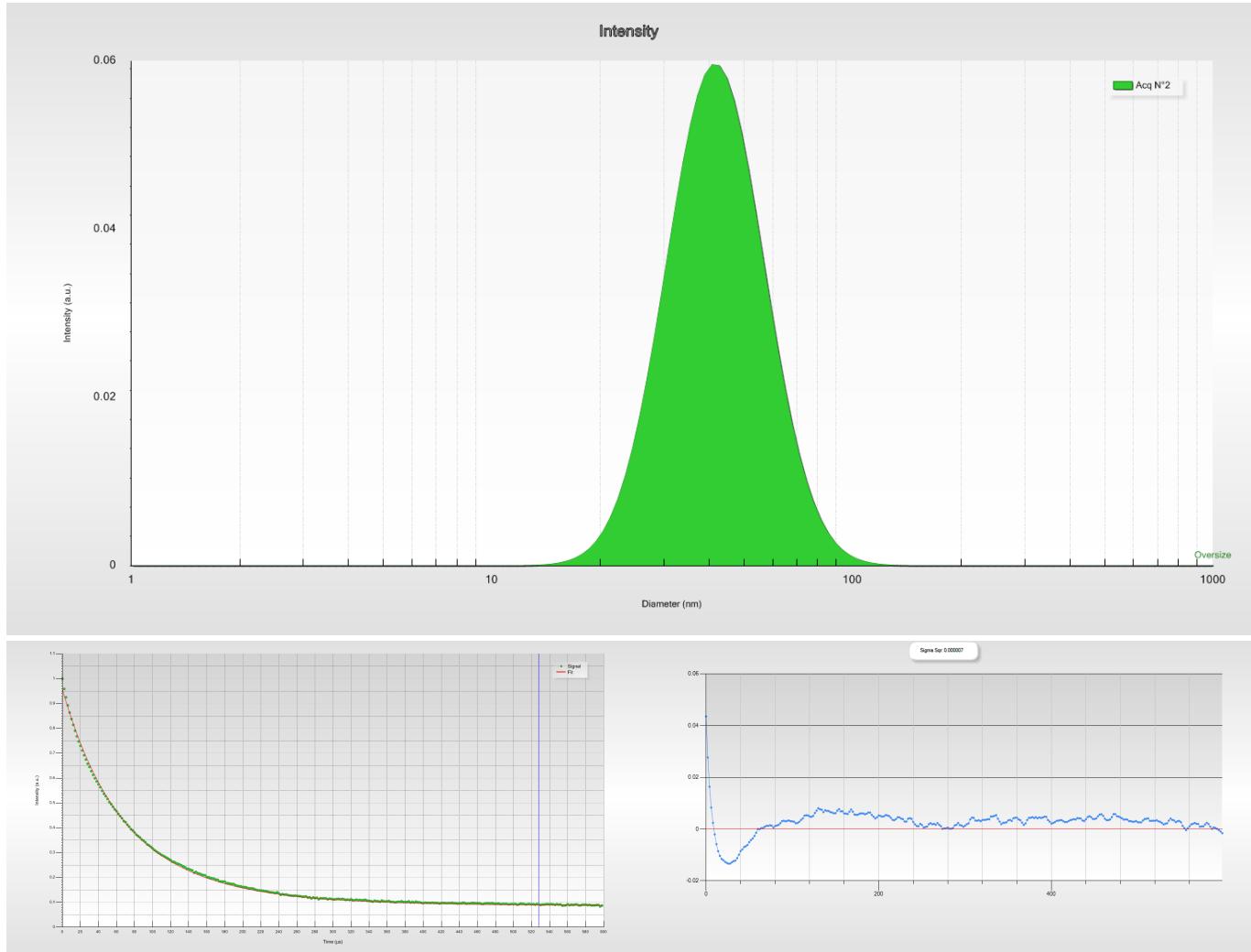
Dv 10%: 8.87 nm **Dv 50%:** 8.87 nm **Dv 90%:** 8.87 nm
Mean Volume: 10.28 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
8.76	0.14	29649.74	56.09251E-012
48.42	0.81	5365.79	10.1512E-012

Dispersion data

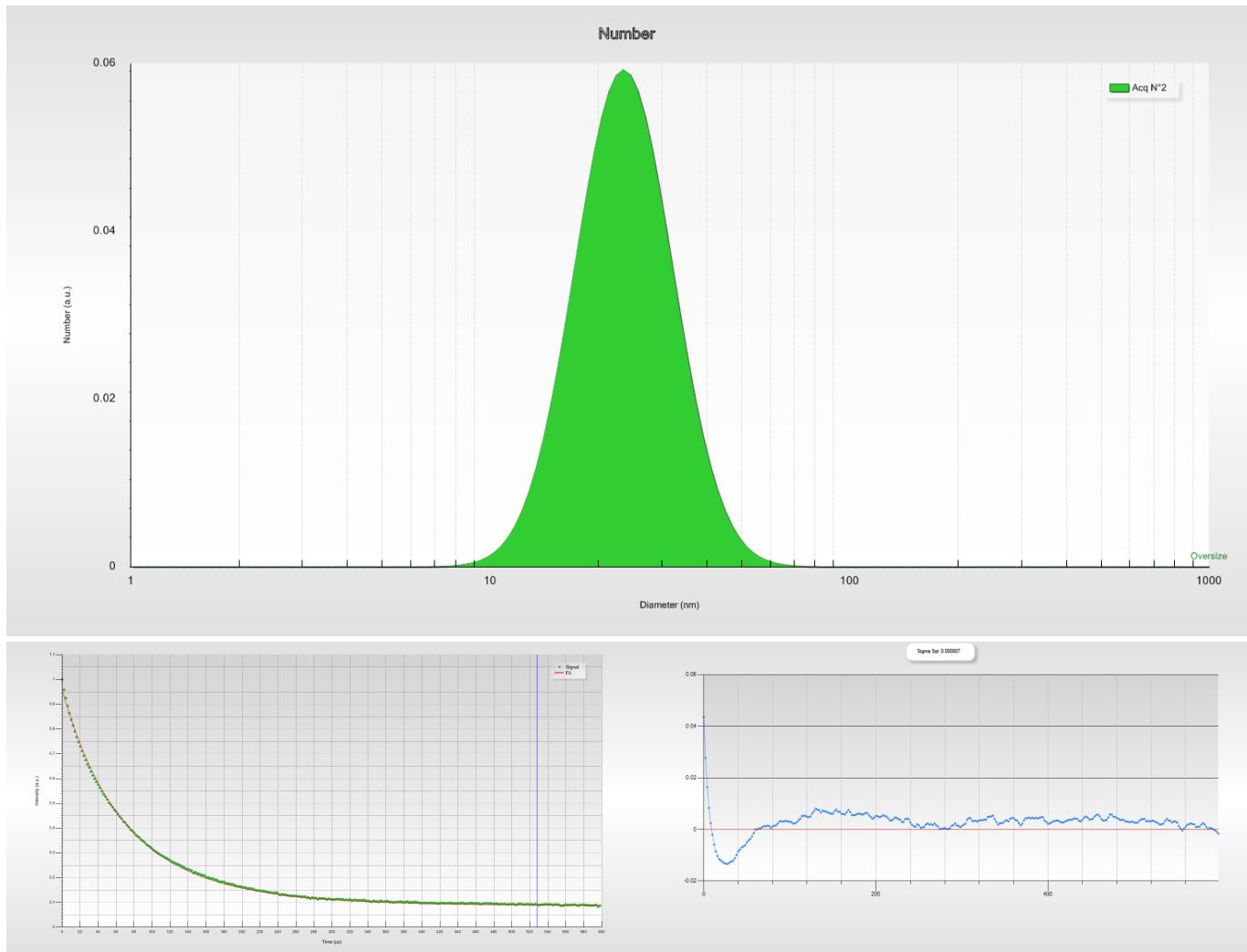
Size (nm)	Volume	Size (nm)	Volume
8.87	0.96	49.06	0.04

**Distribution statistics**

Di 10%: 28.17 nm	Di 50%: 40.78 nm	Di 90%: 61.83 nm
Mean Intensity: 43.58 nm		
PDI : 0.40115		Std Dev: 31.67%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.99	0.87	7217.76	13.65484E-012

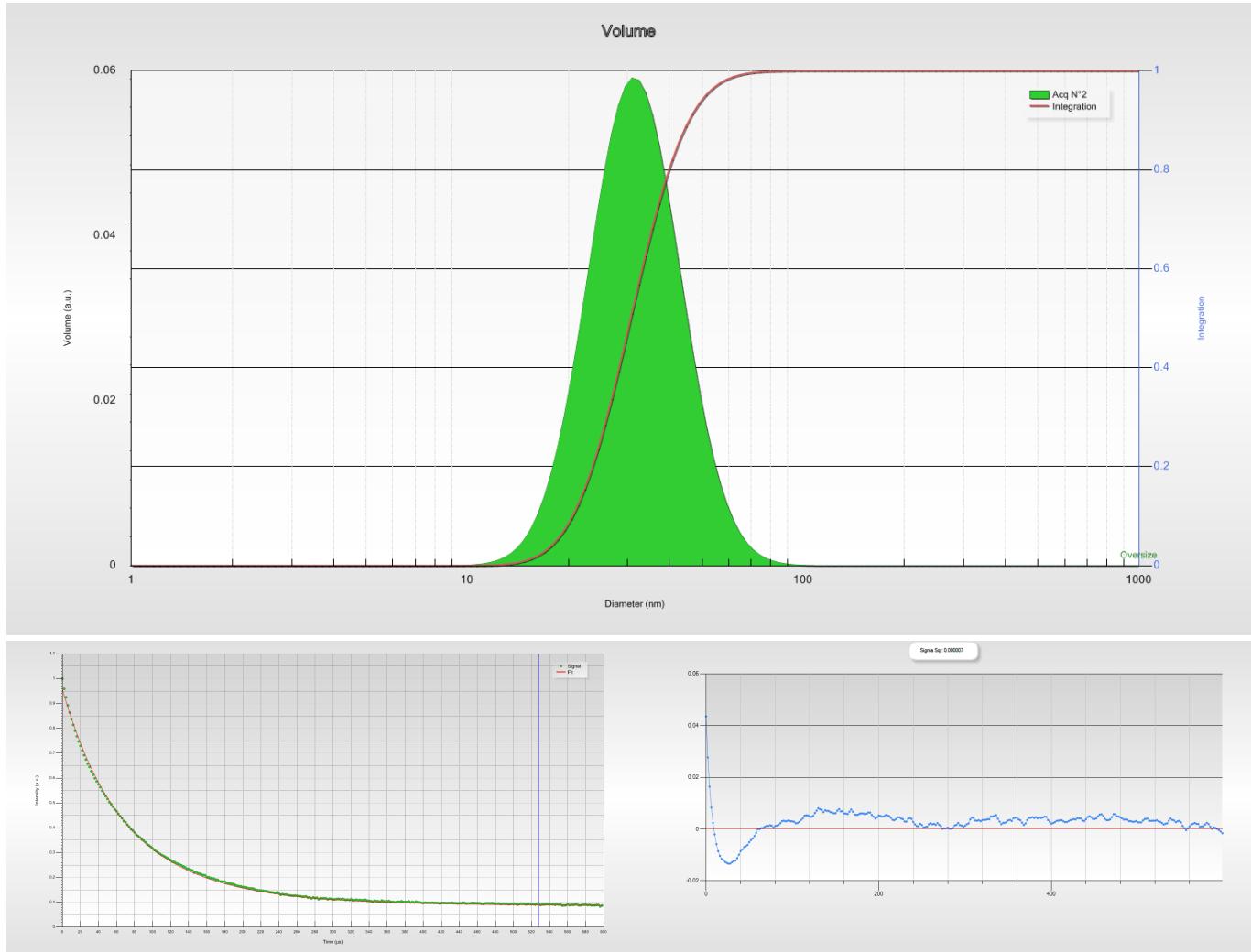


Distribution statistics

Dn 10%: 15.44 nm	Dn 50%: 23.41 nm	Dn 90%: 35.5 nm
Mean Number: 24.61 nm		
PDI : 0.40115		Std Dev: 31.67%

Detected size(s)

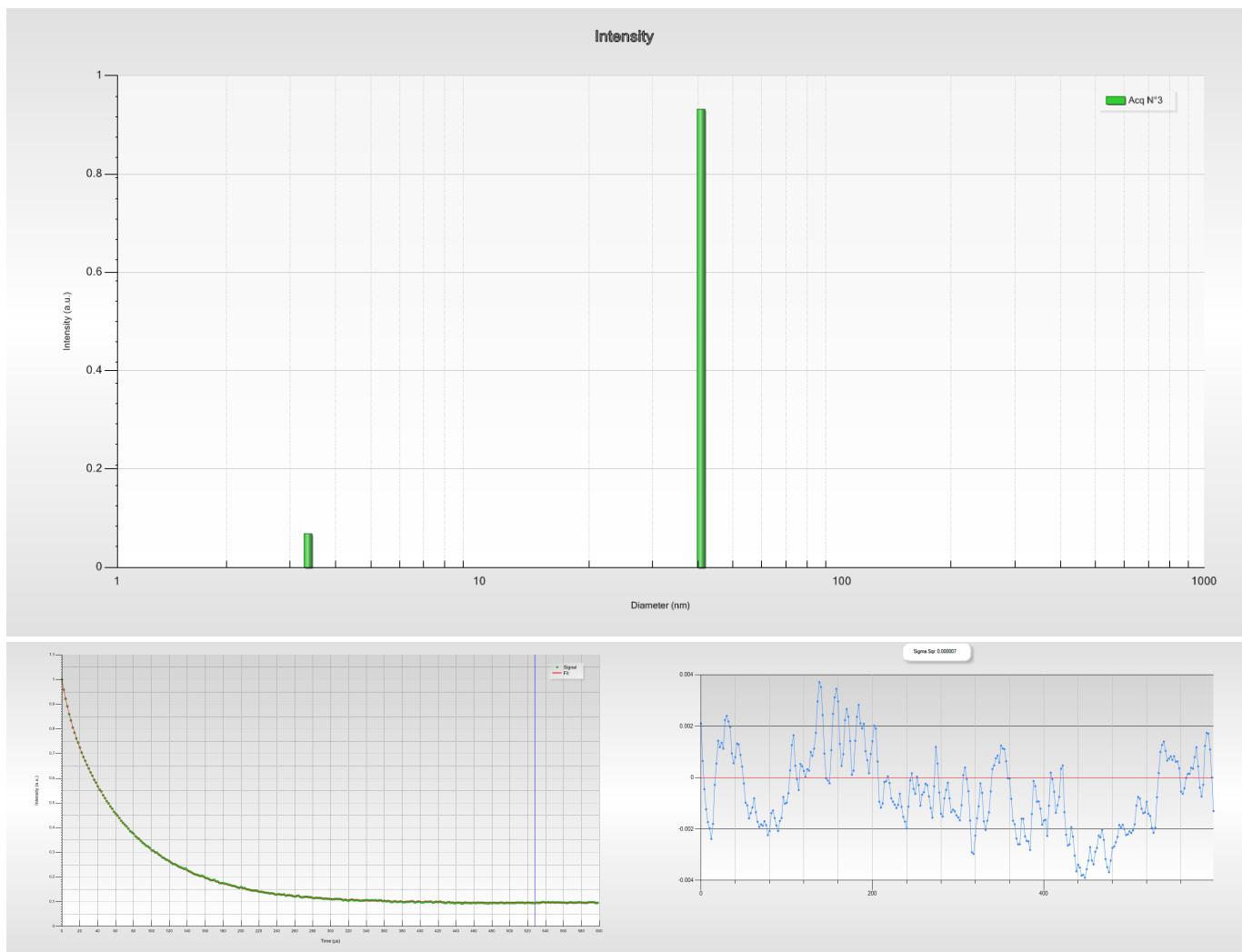
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.99	0.87	7217.76	13.65484E-012

**Distribution statistics**

D_v 10%: 21.35 nm	D_v 50%: 30.9 nm	D_v 90%: 46.85 nm
Mean Volume: 32.93 nm		
PDI : 0.40115		Std Dev: 31.67%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
35.99	0.87	7217.76	13.65484E-012



Dispersion statistics

Di 10%: 40.78 nm
Mean Intensity: 38.2 nm

Di 50%: 40.78 nm

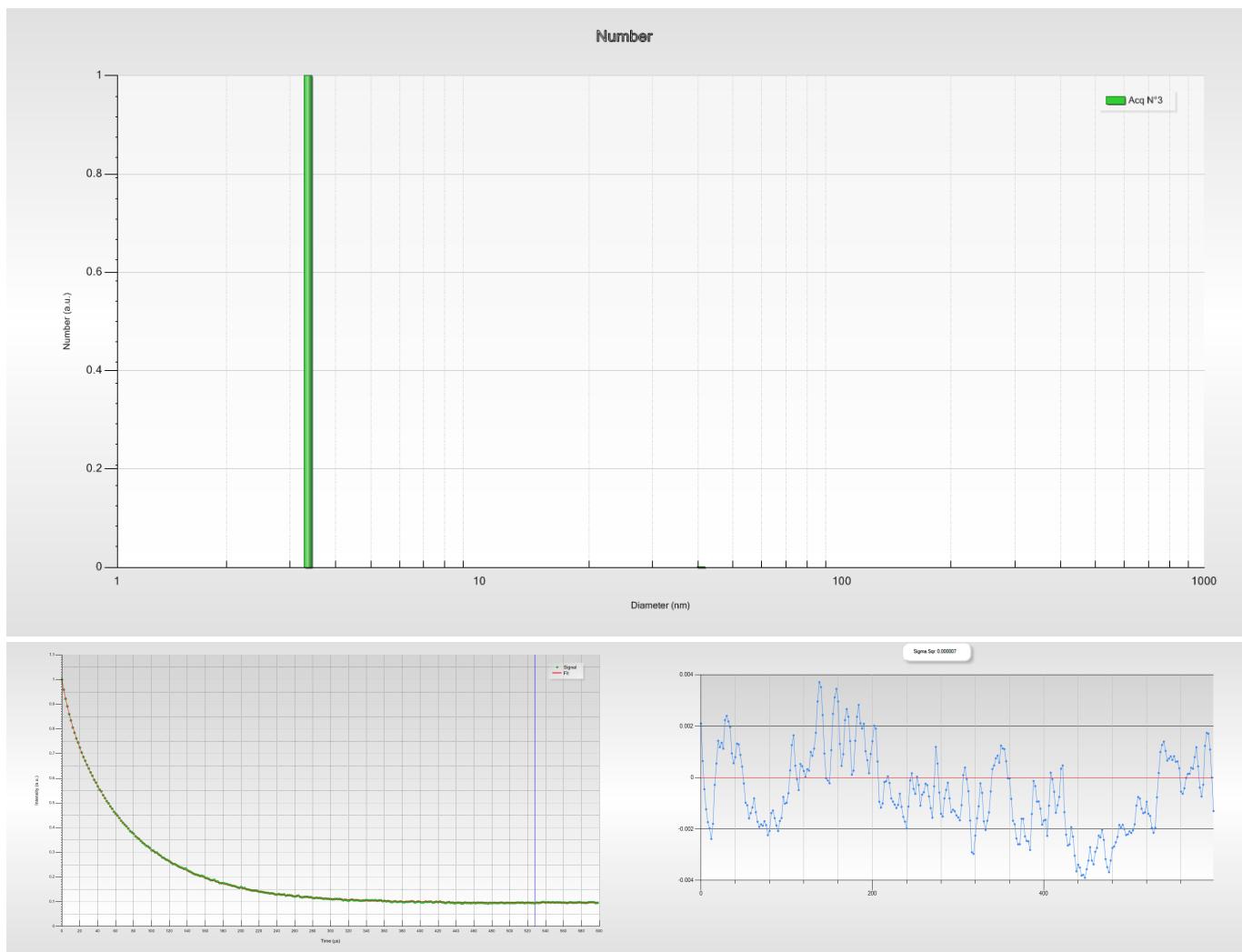
Di 90%: 40.78 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
3.42	0.07	75997.58	14.37751E-011
40.43	0.88	6426.08	12.15711E-012

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
3.36	0.07	40.78	0.93



Dispersion statistics

Dn 10%: 3.36 nm
Mean Number: 3.36 nm

Dn 50%: 3.36 nm

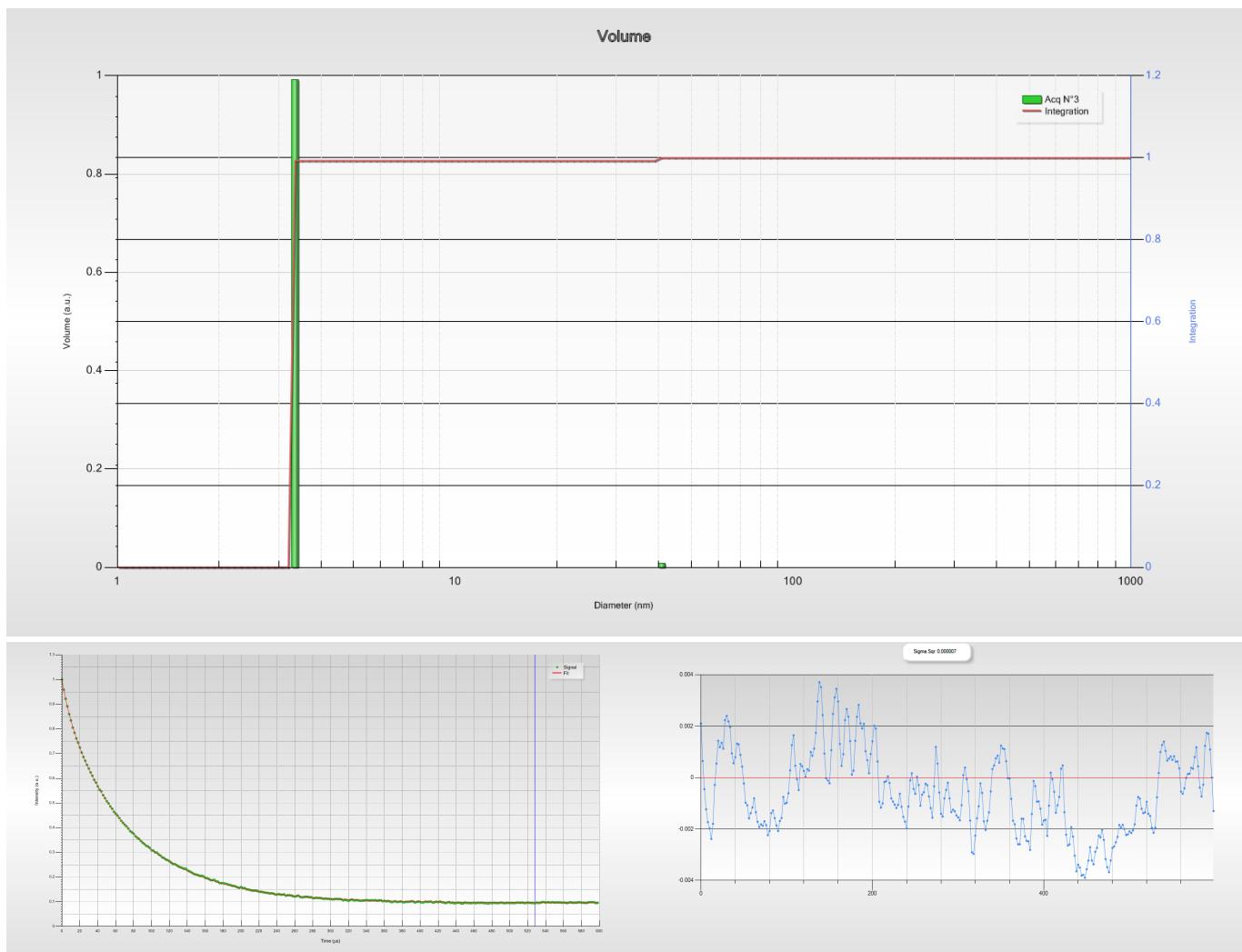
Dn 90%: 3.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
3.42	0.07	75997.58	14.37751E-011
40.43	0.88	6426.08	12.15711E-012

Dispersion data

Size (nm)	Number
3.36	1



Dispersion statistics

Dv 10%: 3.36 nm
Mean Volume: 3.64 nm

Dv 50%: 3.36 nm

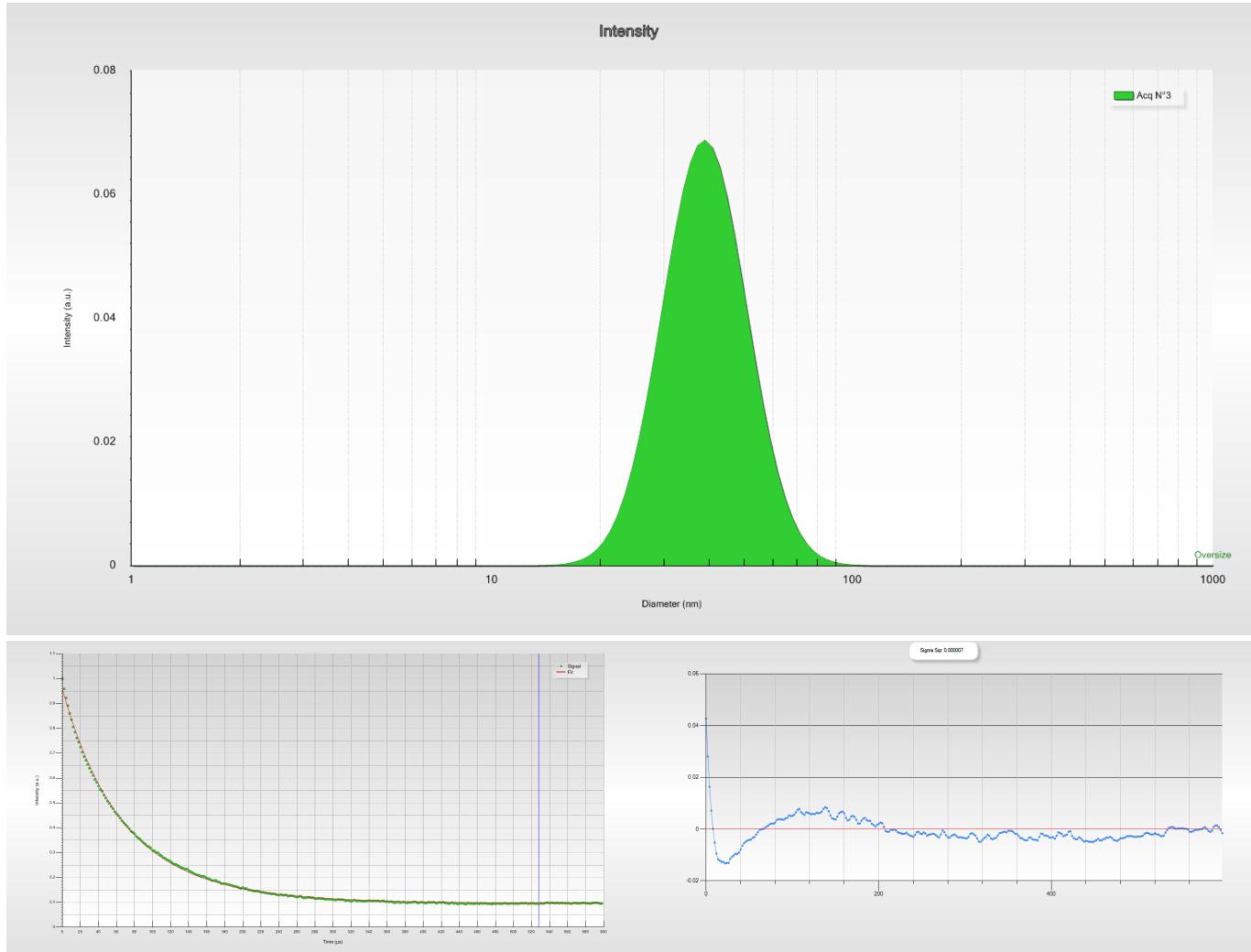
Dv 90%: 3.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
3.42	0.07	75997.58	14.37751E-011
40.43	0.88	6426.08	12.15711E-012

Dispersion data

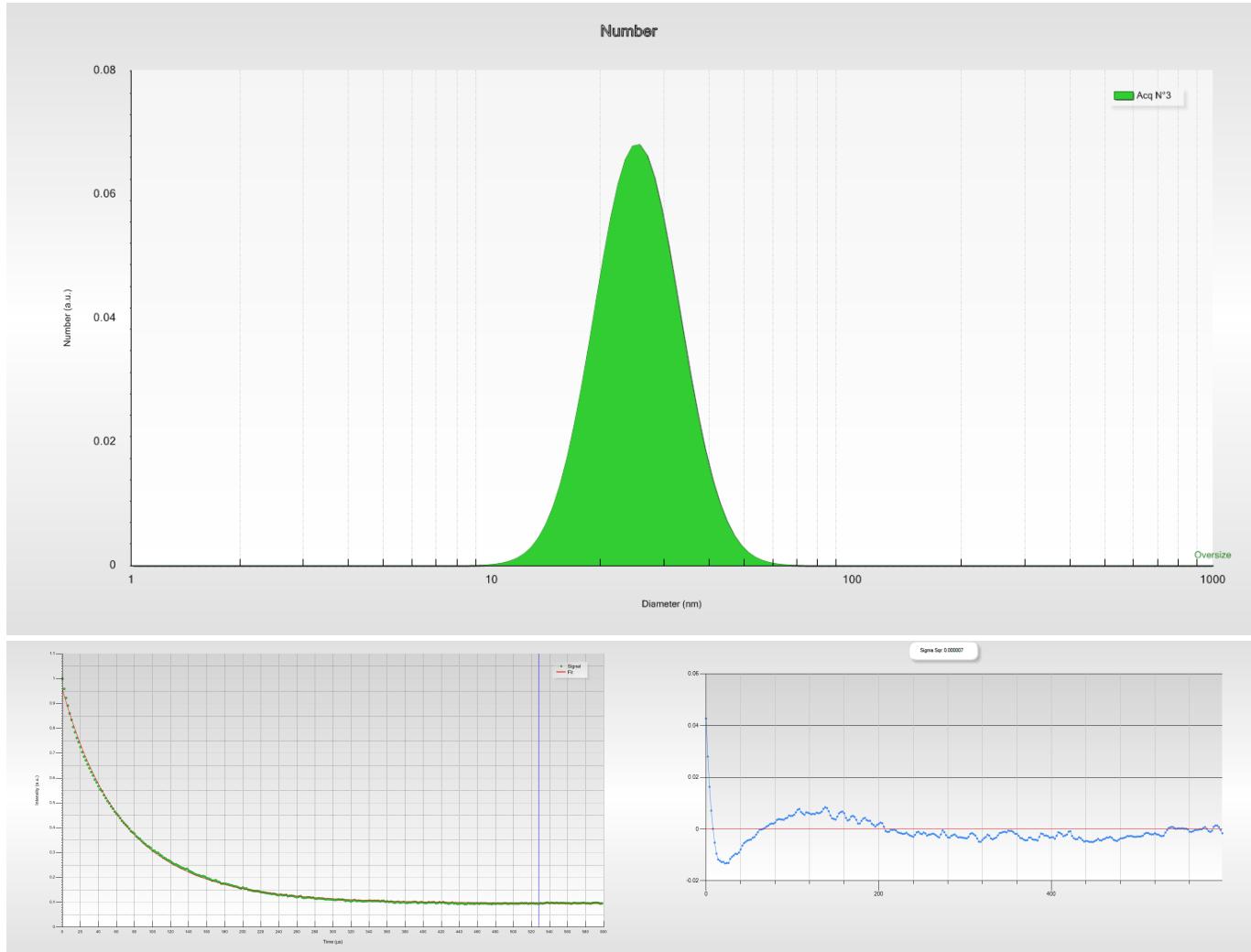
Size (nm)	Volume	Size (nm)	Volume
3.36	0.99	40.78	0.01

**Distribution statistics**

Di 10%: 28.17 nm	Di 50%: 38.94 nm	Di 90%: 53.82 nm
Mean Intensity: 40.23 nm		
PDI : 0.29812		Std Dev: 27.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.83	0.86	7458.37	14.11003E-012

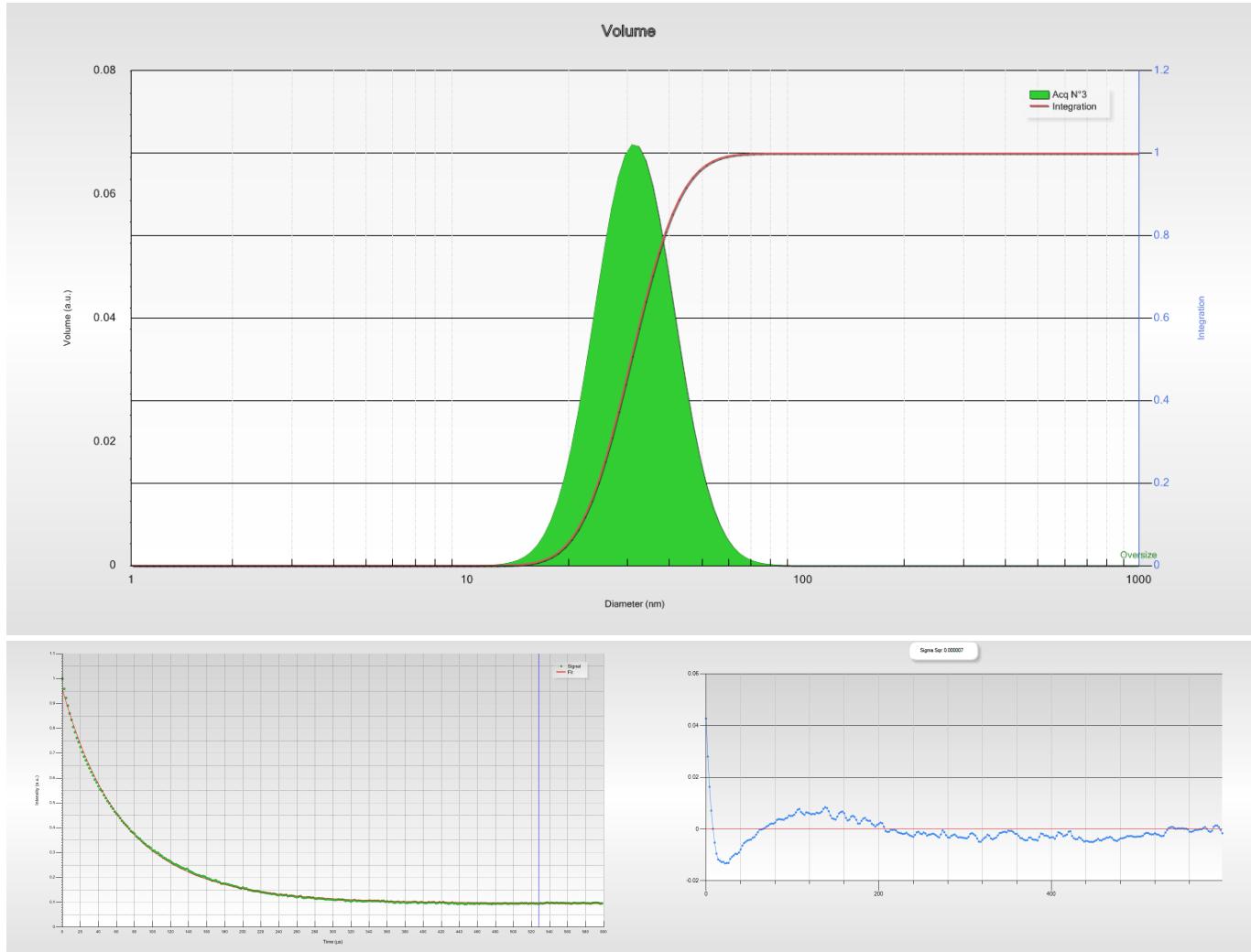


Distribution statistics

Dn 10%: 17.74 nm	Dn 50%: 25.68 nm	Dn 90%: 35.5 nm
Mean Number: 26.18 nm		
PDI : 0.29812		Std Dev: 27.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.83	0.86	7458.37	14.11003E-012

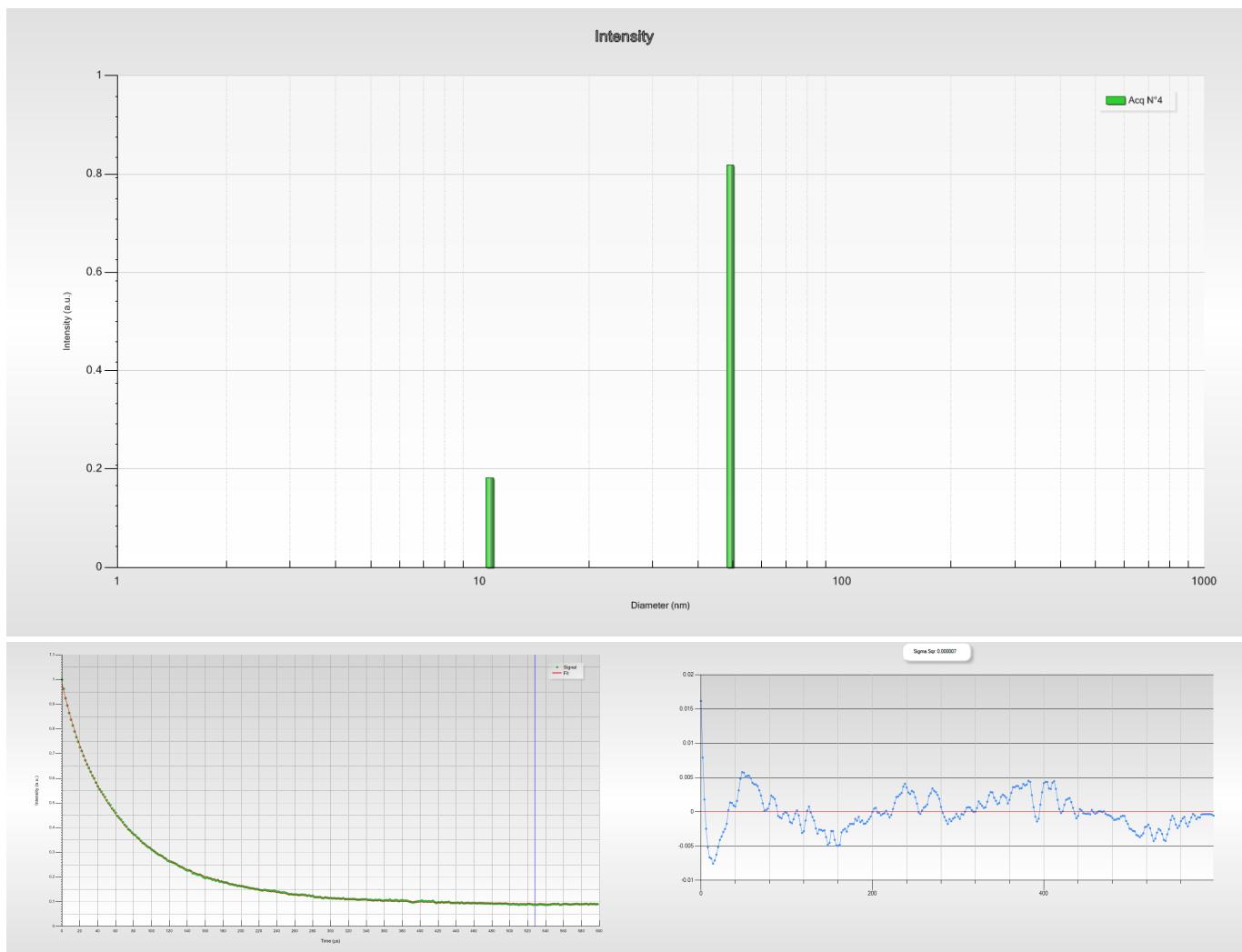


Distribution statistics

D_v 10%: 22.36 nm	D_v 50%: 30.9 nm	D_v 90%: 44.73 nm
Mean Volume: 32.61 nm		
PDI : 0.29812		Std Dev: 27.3%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.83	0.86	7458.37	14.11003E-012



Dispersion statistics

Di 10%: 10.67 nm
Mean Intensity: 42.06 nm

Di 50%: 49.06 nm

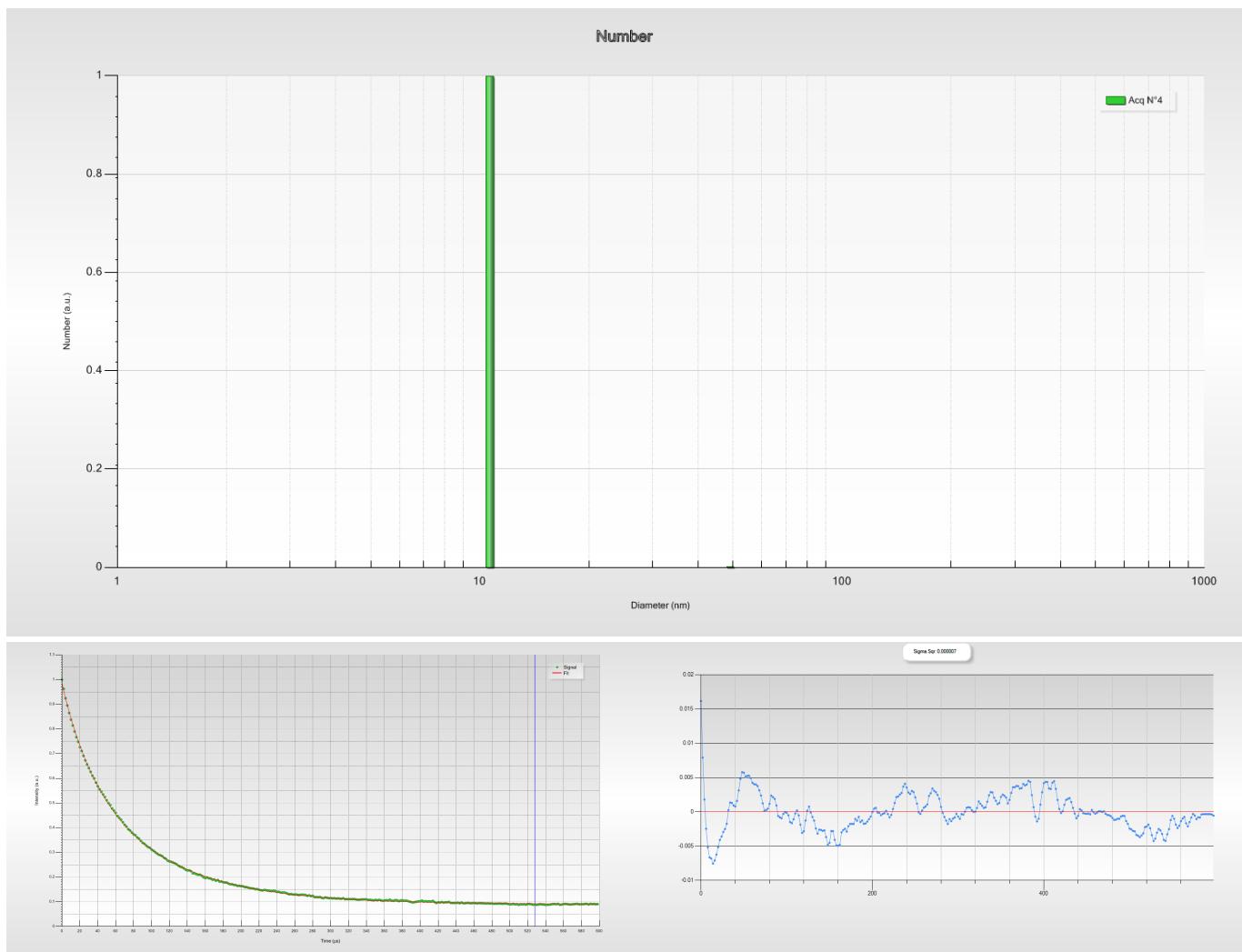
Di 90%: 49.06 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.69	0.17	24306.07	45.98315E-012
49.37	0.77	5262.46	99.55729E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
10.67	0.18	49.06	0.82



Dispersion statistics

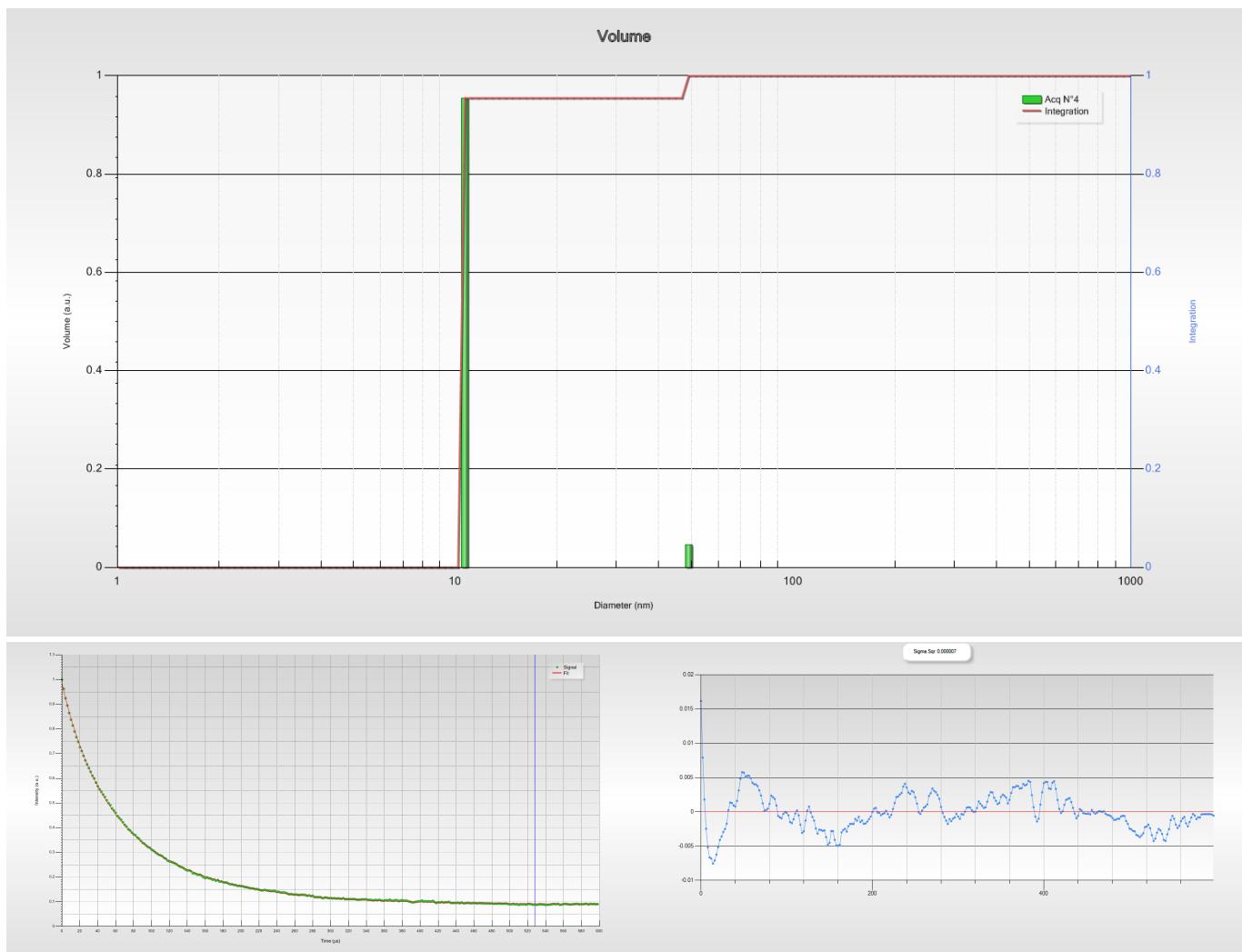
Dn 10%: 10.67 nm Dn 50%: 10.67 nm Dn 90%: 10.67 nm
 Mean Number: 10.69 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.69	0.17	24306.07	45.98315E-012
49.37	0.77	5262.46	99.55729E-013

Dispersion data

Size (nm)	Number
10.67	1



Dispersion statistics

D_v 10%: 10.67 nm
Mean Volume: 12.4 nm

D_v 50%: 10.67 nm

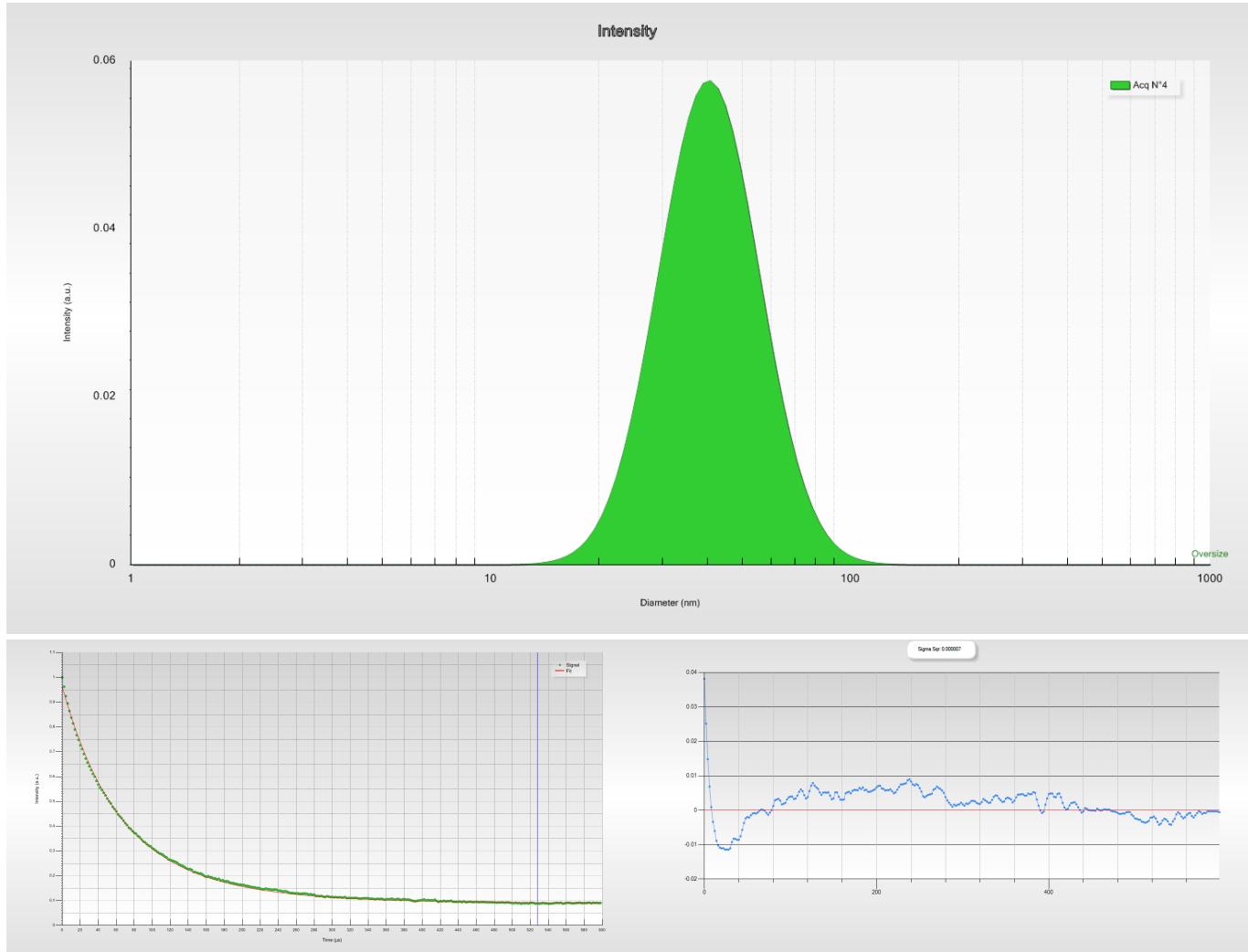
D_v 90%: 10.67 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
10.69	0.17	24306.07	45.98315E-012
49.37	0.77	5262.46	99.55729E-013

Dispersion data

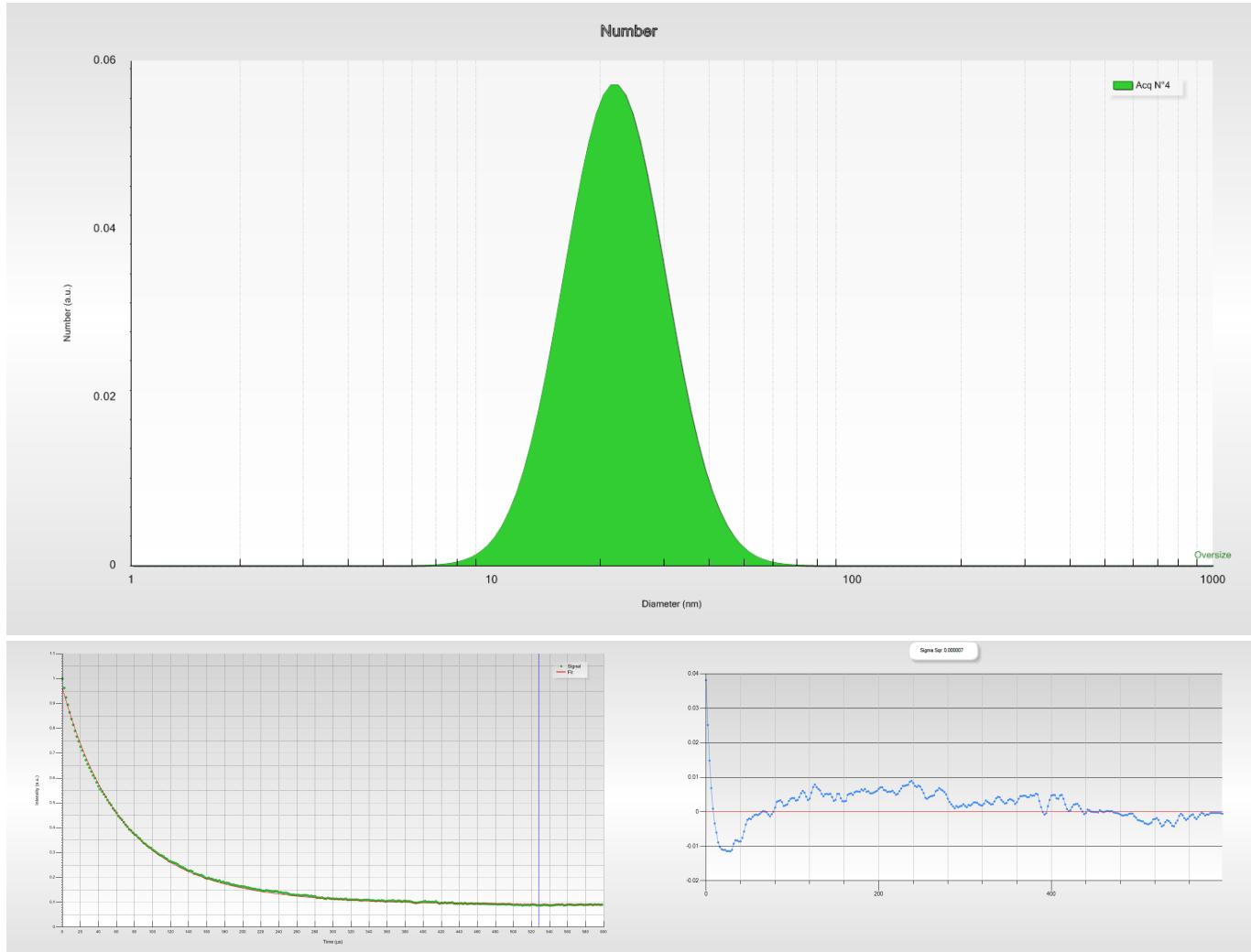
Size (nm)	Volume	Size (nm)	Volume
10.67	0.95	49.06	0.05

**Distribution statistics**

Di 10%: 26.9 nm	Di 50%: 40.78 nm	Di 90%: 61.83 nm
Mean Intensity: 42.46 nm		
PDI : 0.43096		Std Dev: 32.82%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.59	0.87	7509.68	14.2071E-012

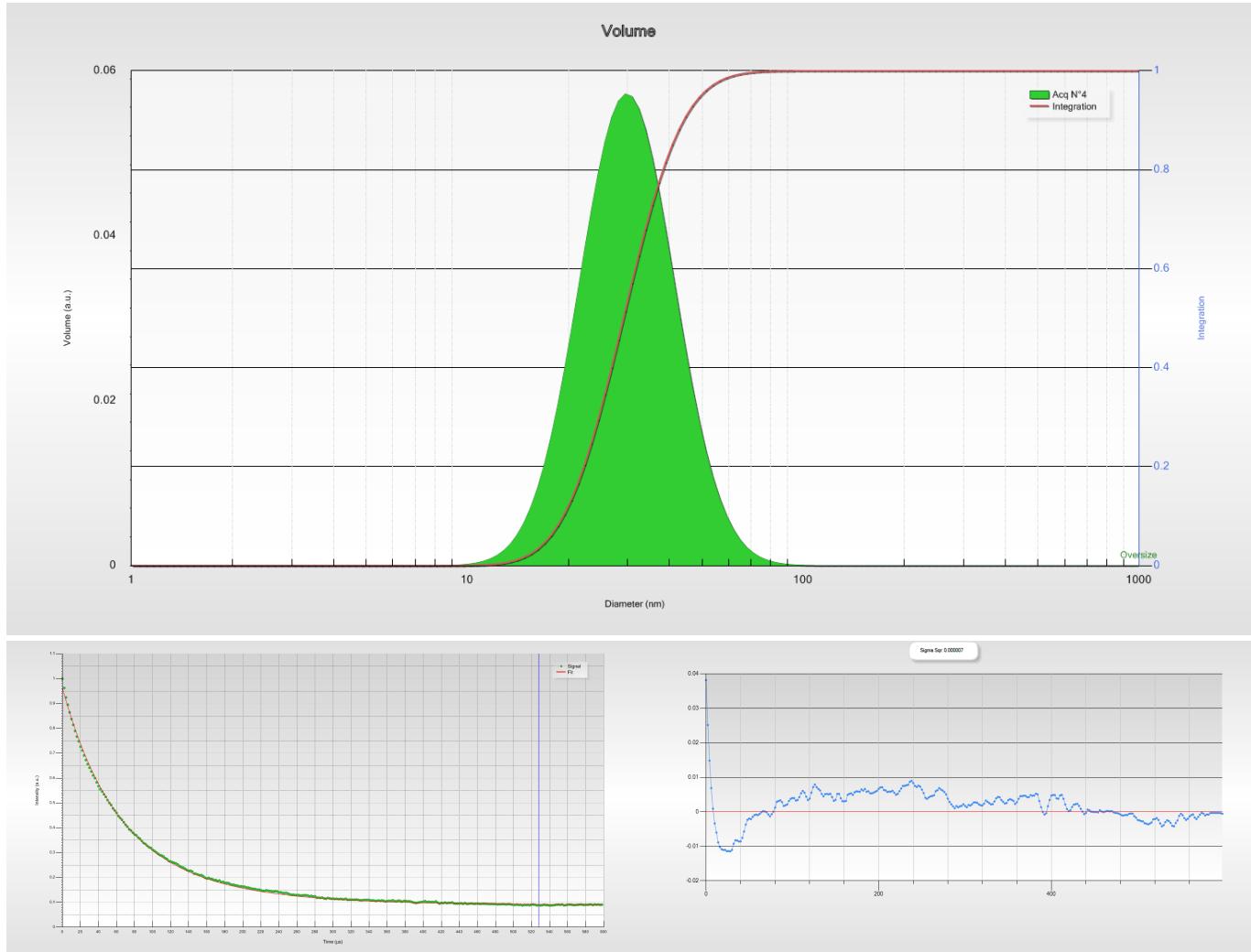


Distribution statistics

Dn 10%: 14.75 nm **Dn 50%:** 22.36 nm **Dn 90%:** 32.36 nm
Mean Number: 23.03 nm **Std Dev:** 32.82%
PDI : 0.43096

Detected size(s)

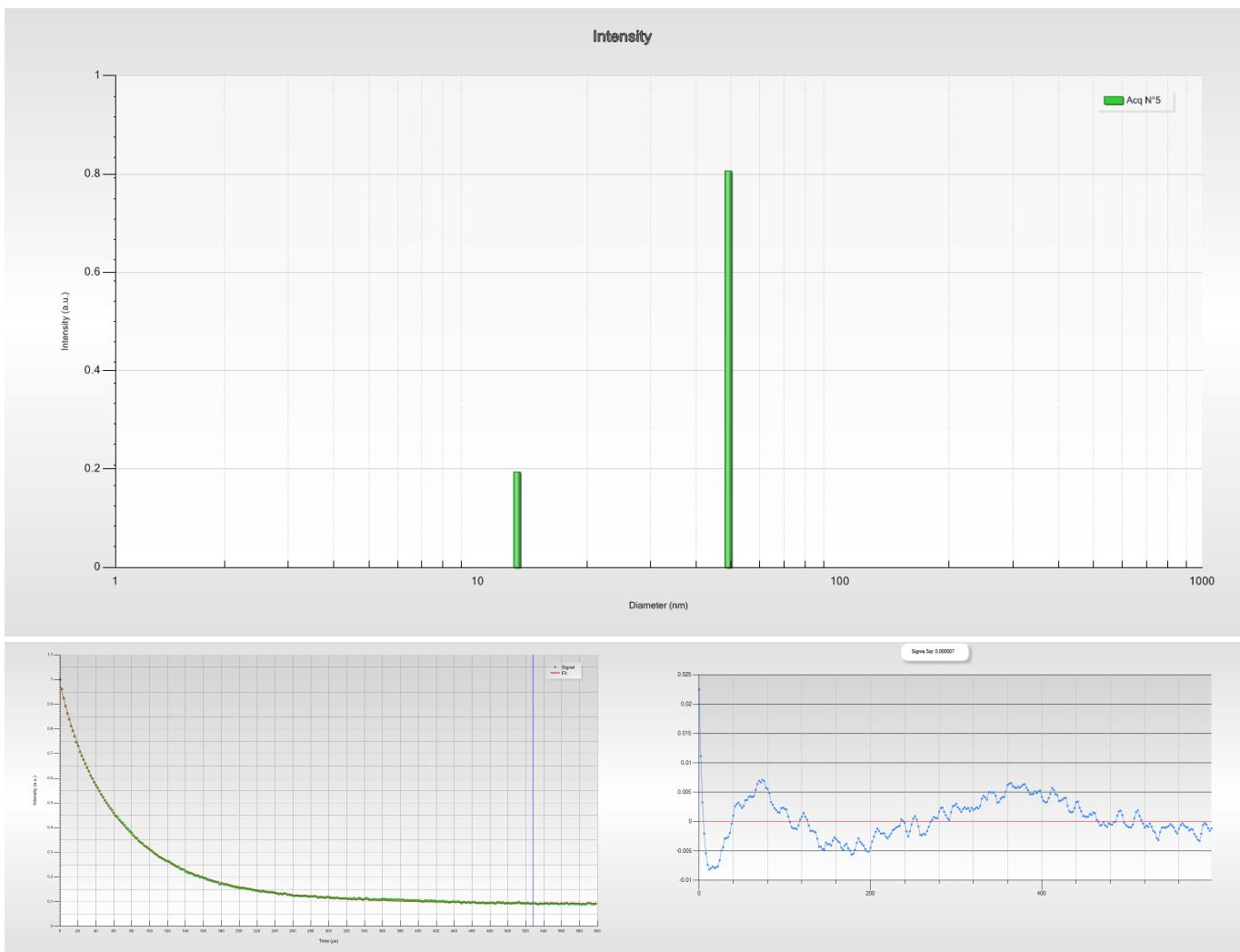
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.59	0.87	7509.68	14.2071E-012

**Distribution statistics**

Dv 10%: 19.46 nm	Dv 50%: 29.5 nm	Dv 90%: 44.73 nm
Mean Volume: 31.44 nm		
PDI : 0.43096		Std Dev: 32.82%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.59	0.87	7509.68	14.2071E-012



Dispersion statistics

Di 10%: 12.84 nm
Mean Intensity: 42.03 nm

Di 50%: 49.06 nm

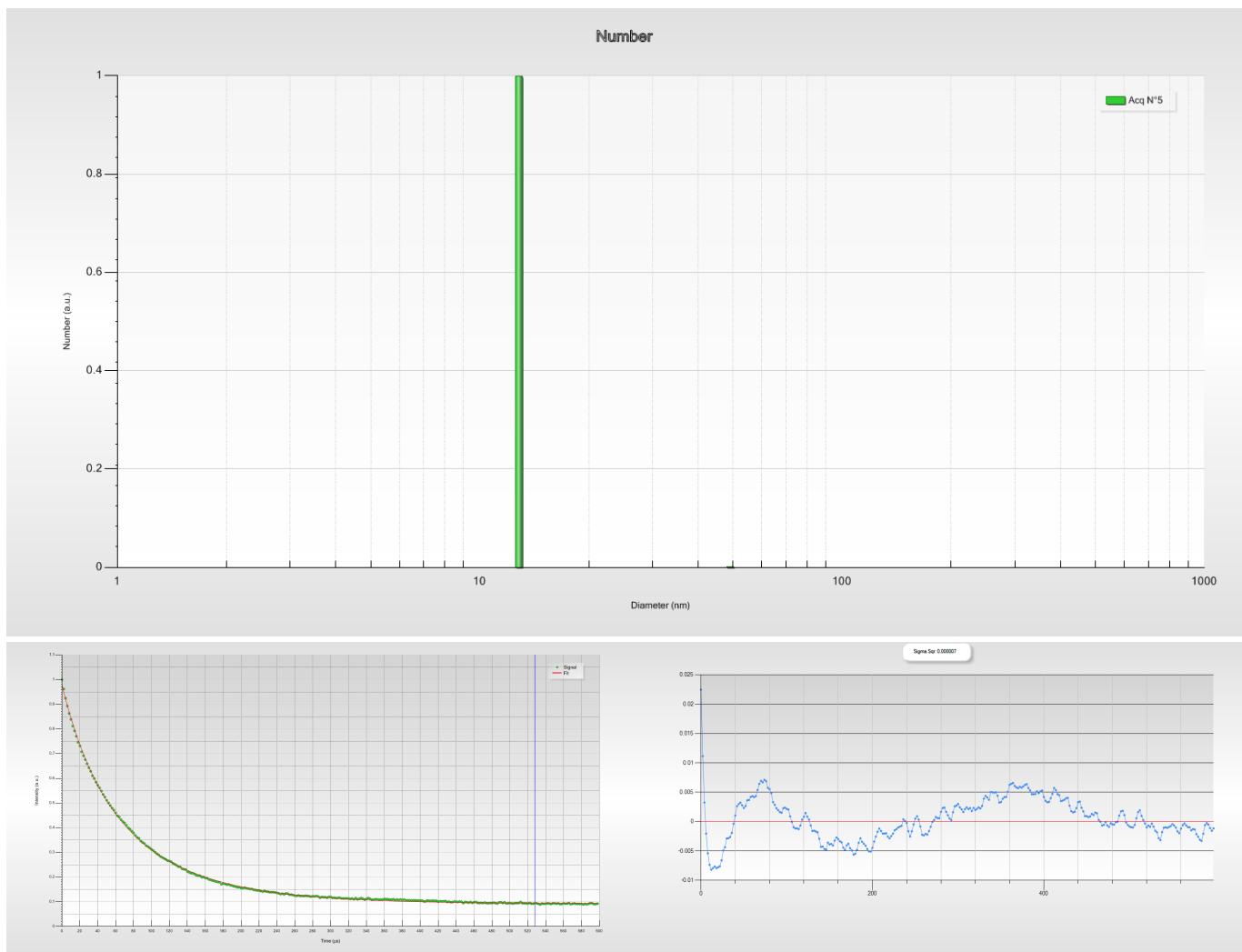
Di 90%: 49.06 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
12.67	0.18	20506.09	38.79419E-012
48.41	0.76	5366.65	10.15283E-012

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
12.84	0.19	49.06	0.81



Dispersion statistics

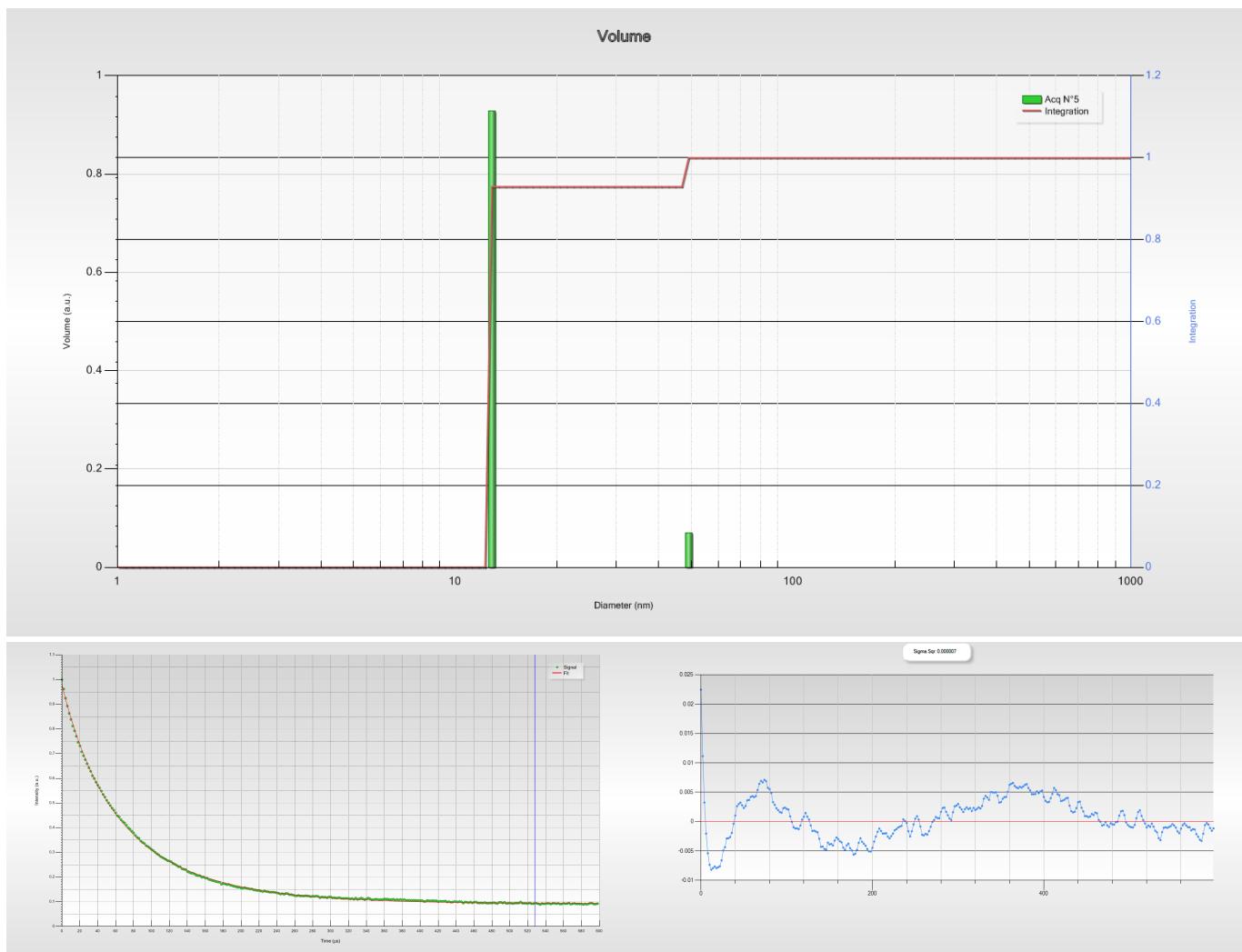
Dn 10%: 12.84 nm **Dn 50%:** 12.84 nm **Dn 90%:** 12.84 nm
Mean Number: 12.89 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
12.67	0.18	20506.09	38.79419E-012
48.41	0.76	5366.65	10.15283E-012

Dispersion data

Size (nm)	Number
12.84	1



Dispersion statistics

D_v 10%: 12.84 nm
Mean Volume: 15.4 nm

D_v 50%: 12.84 nm

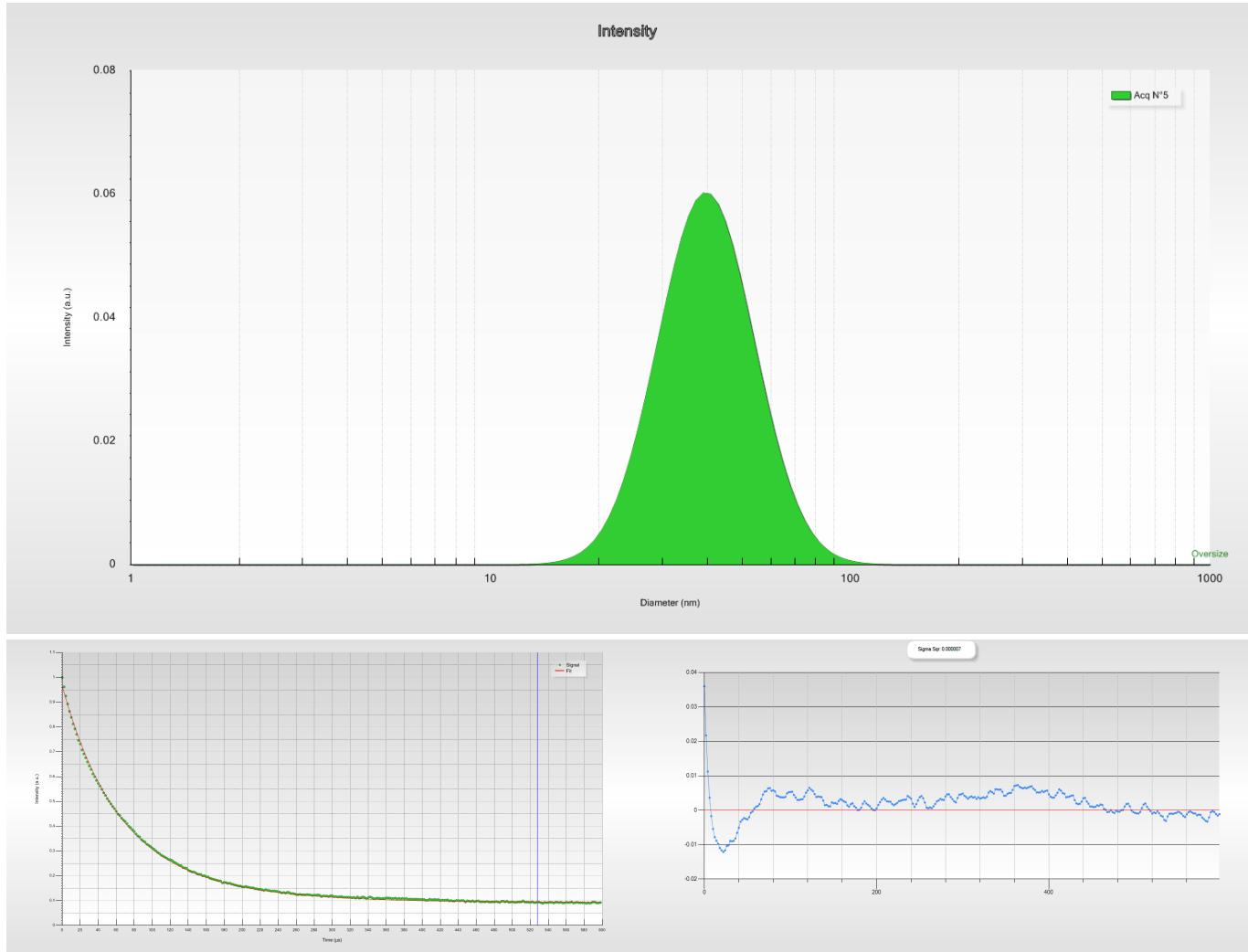
D_v 90%: 12.84 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
12.67	0.18	20506.09	38.79419E-012
48.41	0.76	5366.65	10.15283E-012

Dispersion data

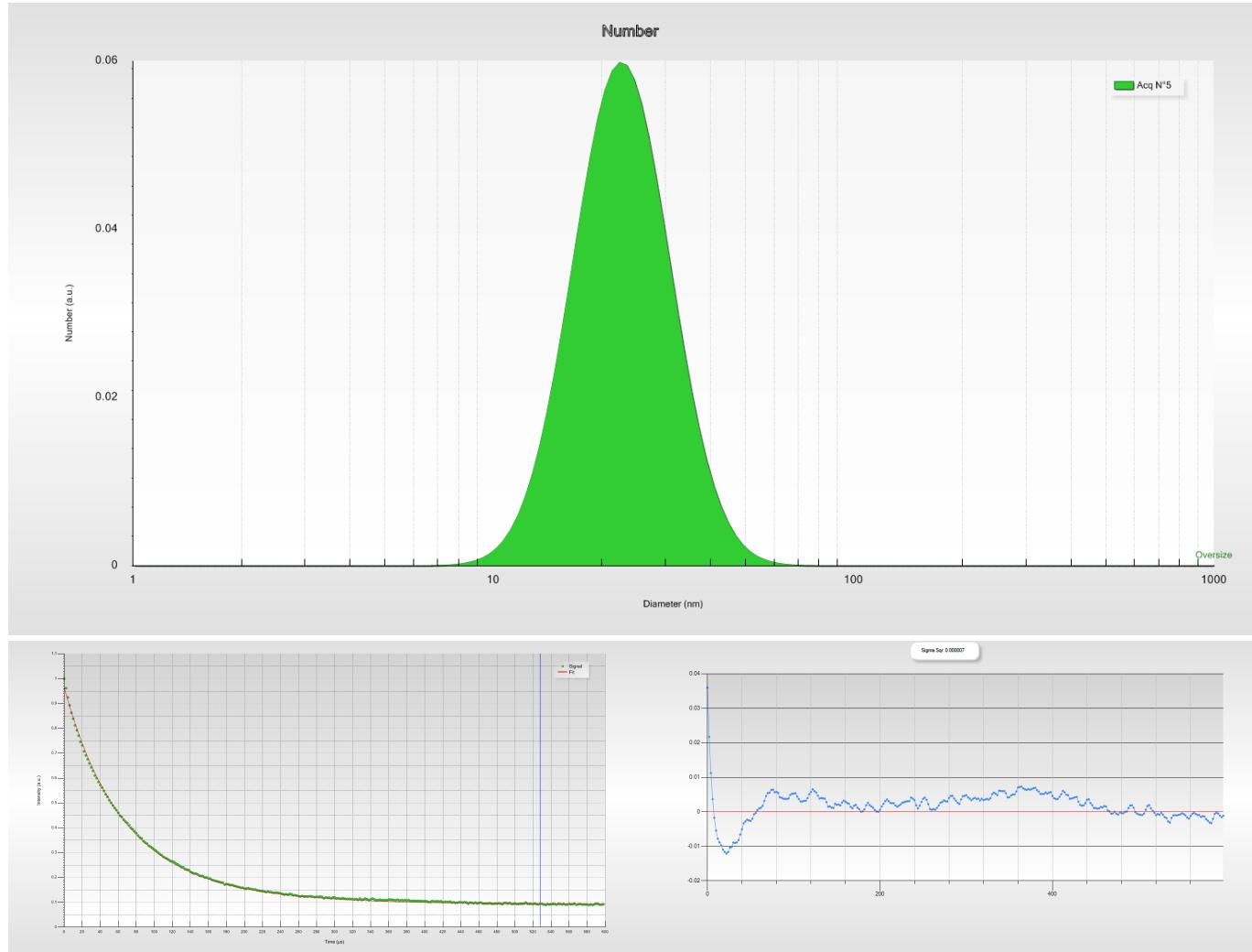
Size (nm)	Volume	Size (nm)	Volume
12.84	0.93	49.06	0.07

**Distribution statistics**

Di 10%: 26.9 nm	Di 50%: 38.94 nm	Di 90%: 59.03 nm
Mean Intensity: 41.51 nm		
PDI : 0.39248		Std Dev: 31.32%

Detected size(s)

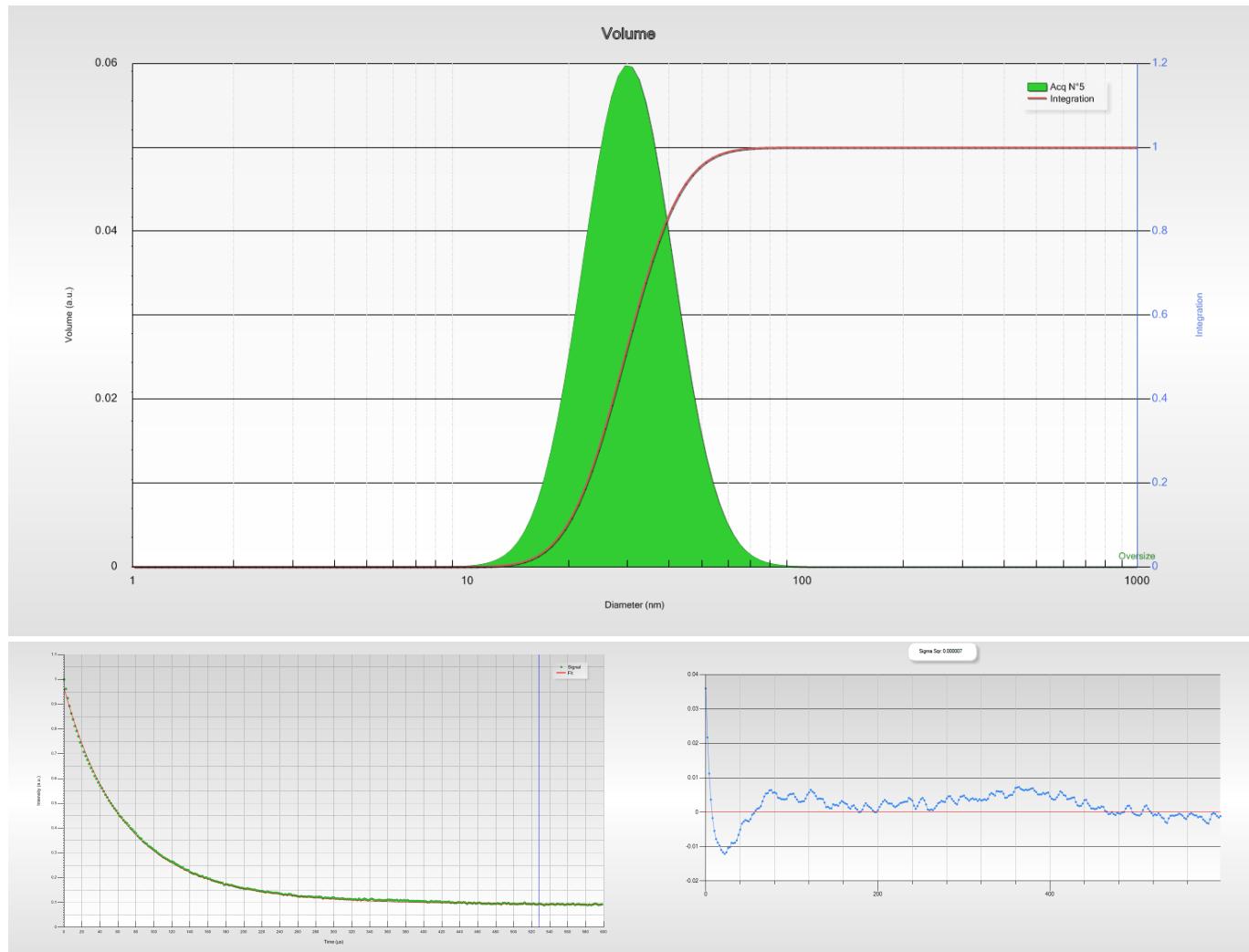
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.42	0.87	7547.64	14.27891E-012

**Distribution statistics**

Dn 10%: 15.44 nm	Dn 50%: 22.36 nm	Dn 90%: 33.89 nm
Mean Number: 23.72 nm		
PDI : 0.39248		Std Dev: 31.32%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.42	0.87	7547.64	14.27891E-012

**Distribution statistics**

D_v 10%: 20.38 nm	D_v 50%: 29.5 nm	D_v 90%: 44.73 nm
Mean Volume: 31.55 nm		
PDI : 0.39248		Std Dev: 31.32%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.42	0.87	7547.64	14.27891E-012