

Sample

Name : GNP_11.4.16_1.24_1k_3
Mesured On : 11.04.2016 19:10
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	: 54.2 %	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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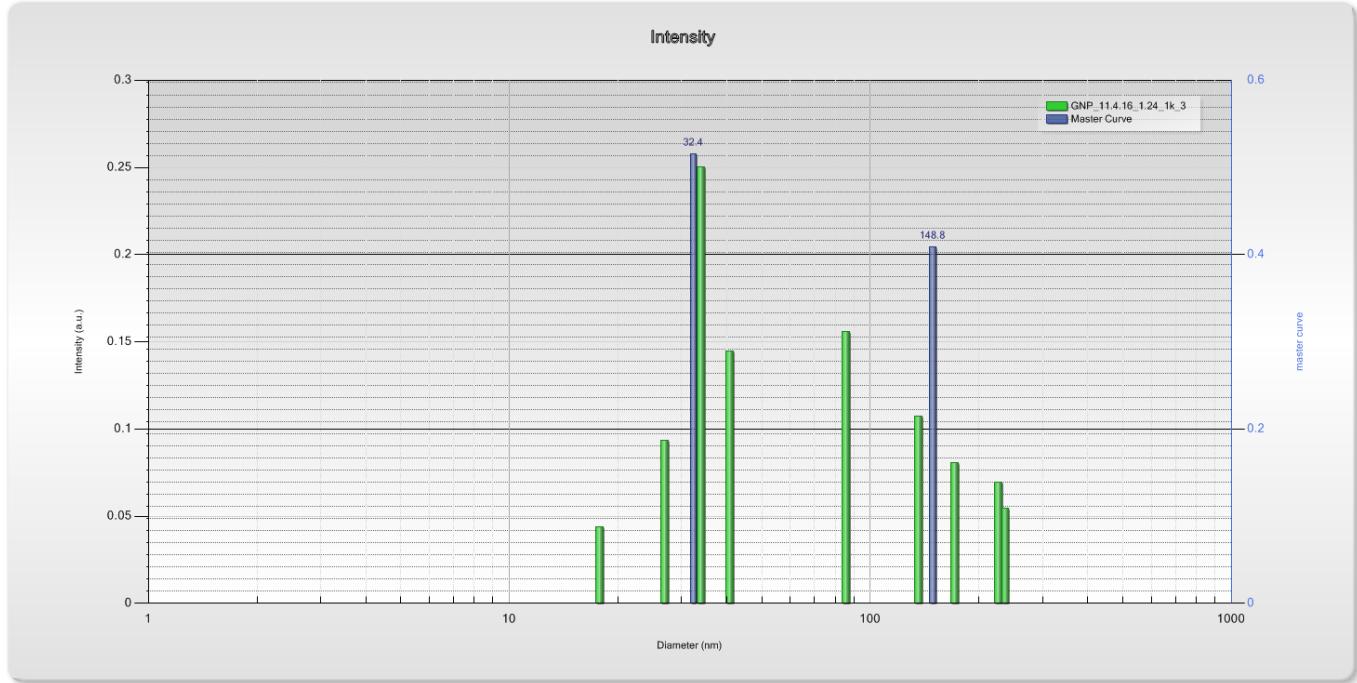
Algorithm

Pade Laplace	Cumulants
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Measurement

Average count rate : 2868 kcps
Number of rejected : 0

Duration : 00:05:18
Number of modified : 0



Dispersion statistics

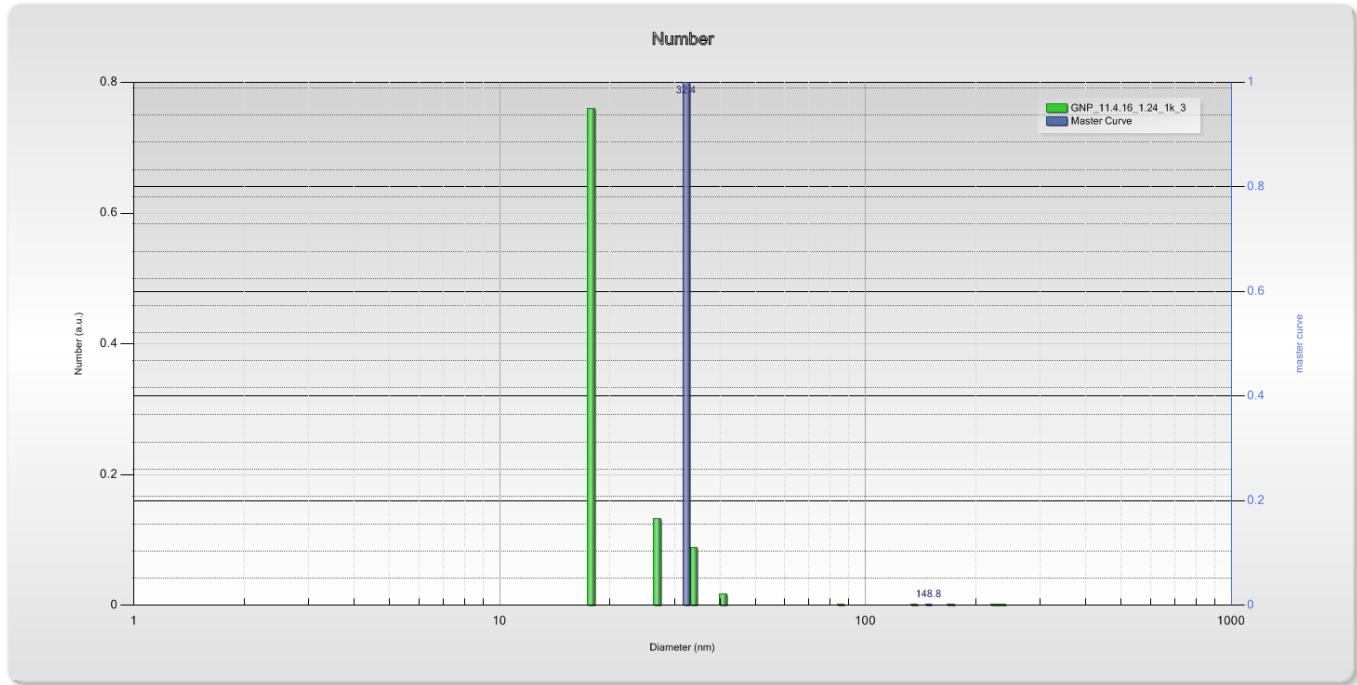
Di 10%: 26.9 nm

Di 50%: 40.78 nm

Di 90%: 225.64 nm

Dispersion data

Size (nm)	Intensity						
17.74	0.04	40.78	0.14	170.97	0.08		
26.9	0.09	85.45	0.16	225.64	0.07		
33.89	0.25	135.68	0.11	236.32	0.05		



Dispersion statistics

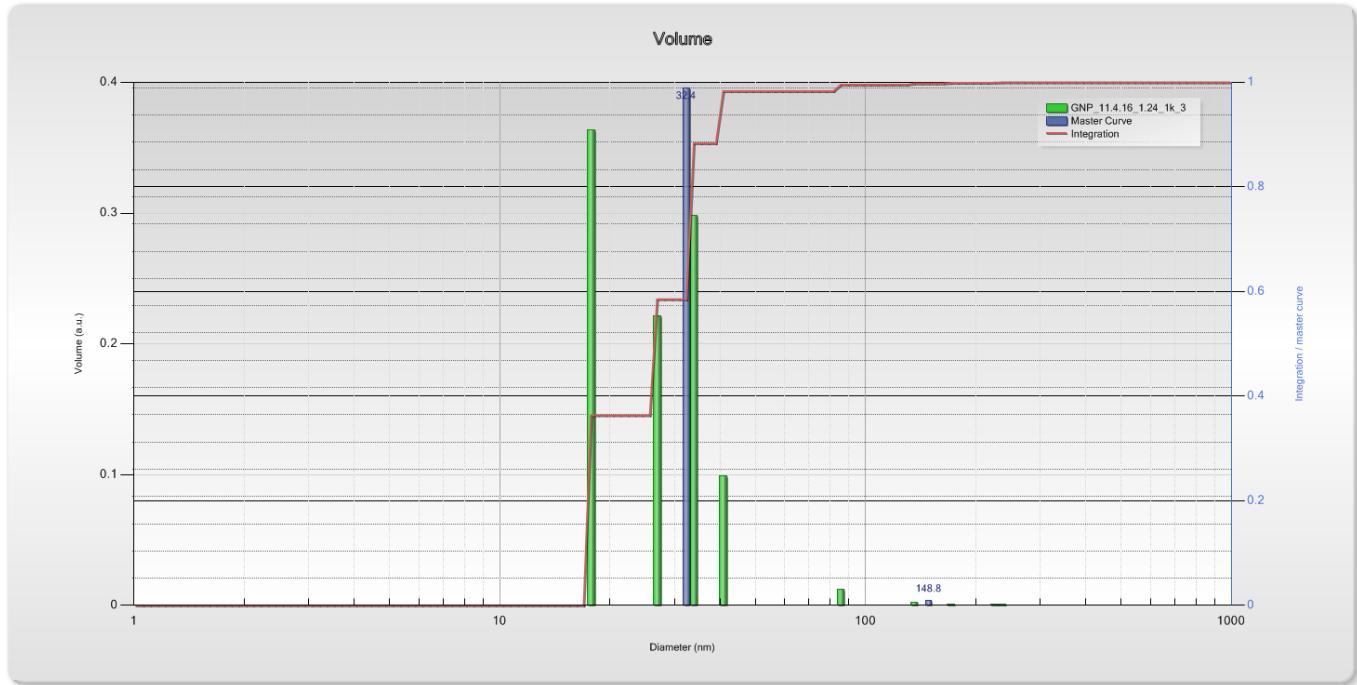
Dn 10%: 17.74 nm

Dn 50%: 17.74 nm

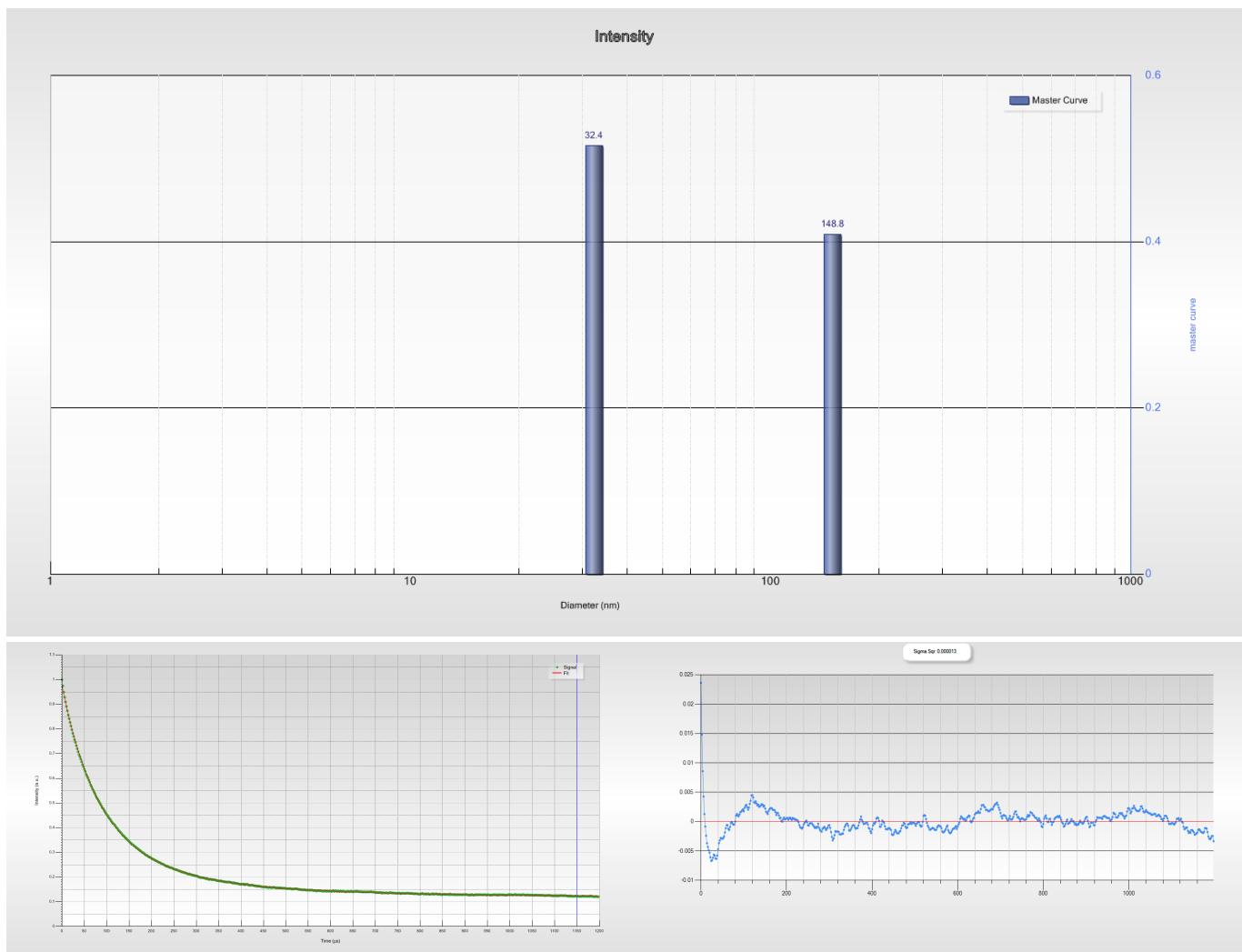
Dn 90%: 33.89 nm

Dispersion data

Size (nm)	Number						
17.74	0.76	33.89	0.09				
26.9	0.13	40.78	0.02				

**Dispersion statistics****D_v 10%:** 17.74 nm**D_v 50%:** 26.9 nm**D_v 90%:** 40.78 nm**Dispersion data**

Size (nm)	Volume						
17.74	0.36	33.89	0.3	85.45	0.01		
26.9	0.22	40.78	0.1				



Dispersion statistics

Di 10%: 32.36 nm

Mean Intensity: 83.88 nm

Di 50%: 32.36 nm

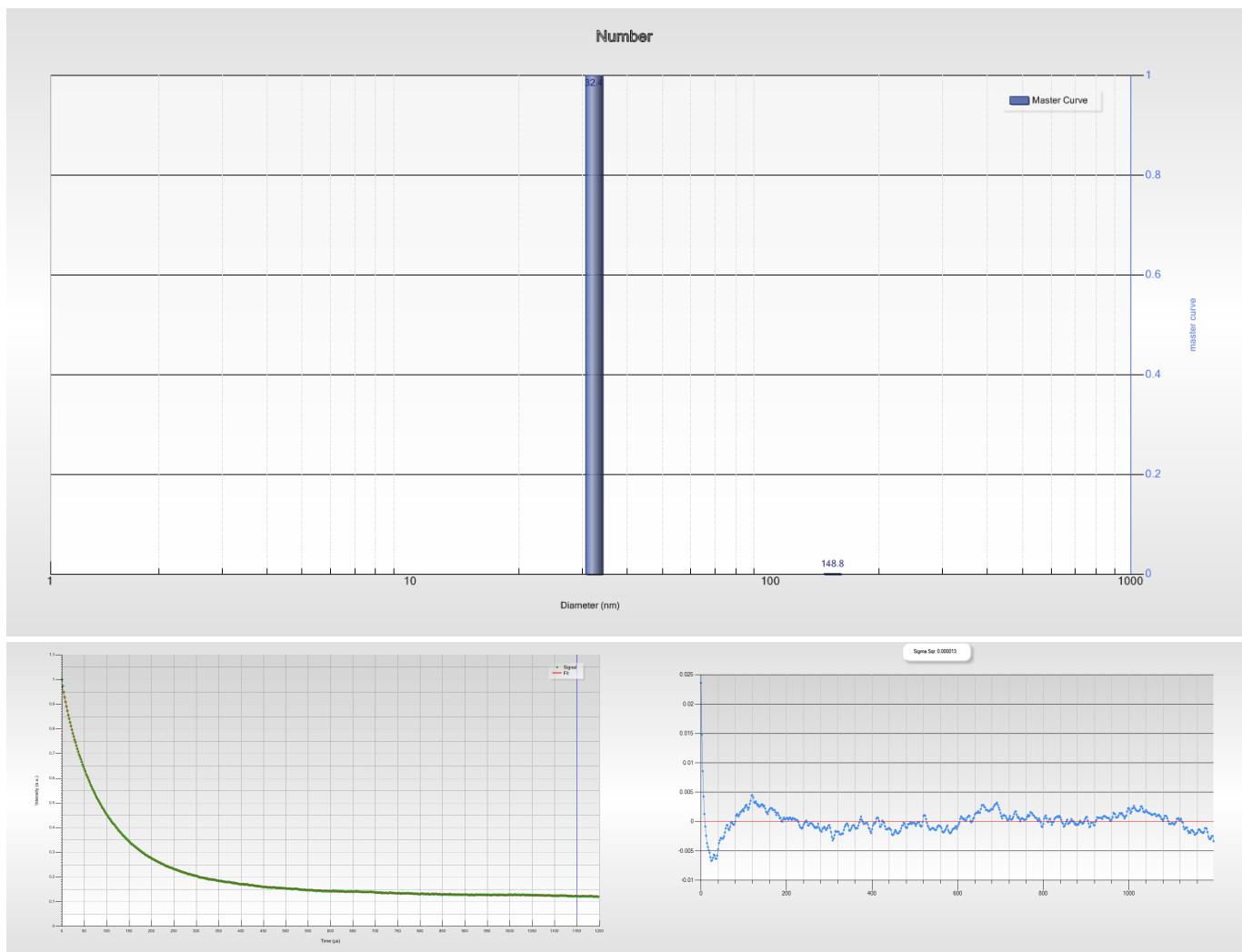
Di 90%: 148.83 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.2	0.52	8067.14	15.26172E-012
151.74	0.41	1712.1	32.39012E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
32.36	0.56	148.83	0.44



Dispersion statistics

Dn 10%: 32.36 nm
Mean Number: 32.38 nm

Dn 50%: 32.36 nm

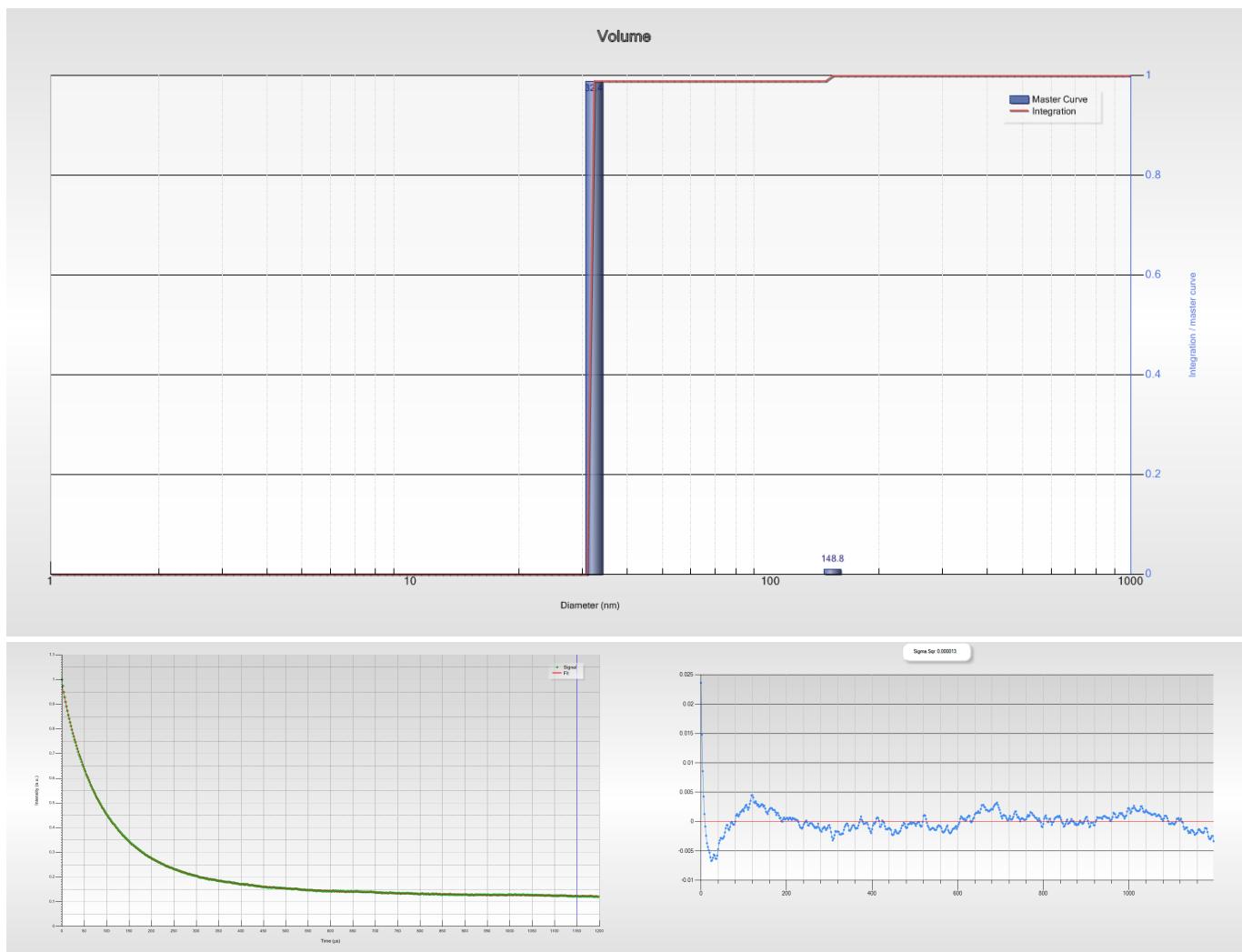
Dn 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.2	0.52	8067.14	15.26172E-012
151.74	0.41	1712.1	32.39012E-013

Dispersion data

Size (nm)	Number
32.36	1



Dispersion statistics

D_v 10%: 32.36 nm
Mean Volume: 33.58 nm

D_v 50%: 32.36 nm

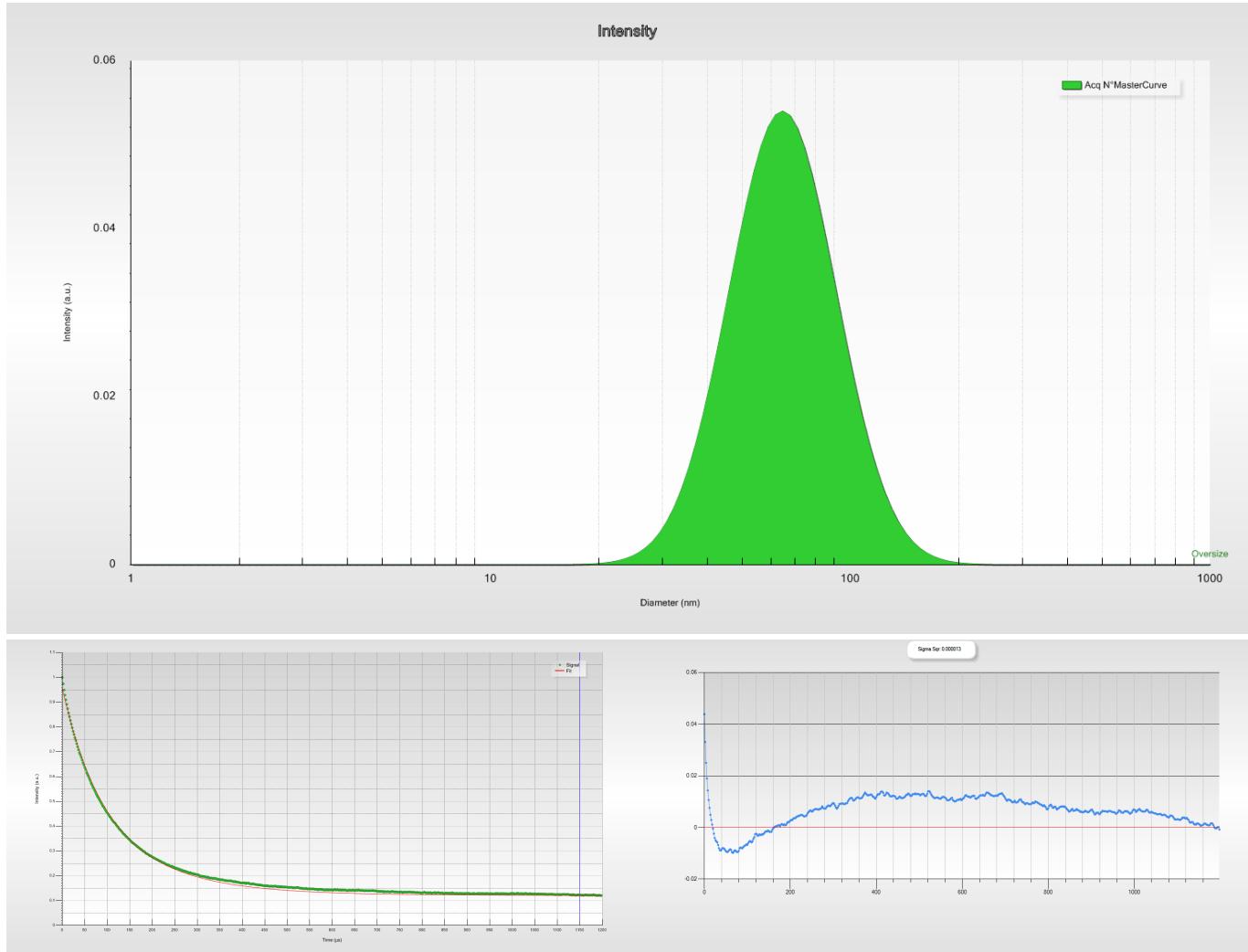
D_v 90%: 32.36 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
32.2	0.52	8067.14	15.26172E-012
151.74	0.41	1712.1	32.39012E-013

Dispersion data

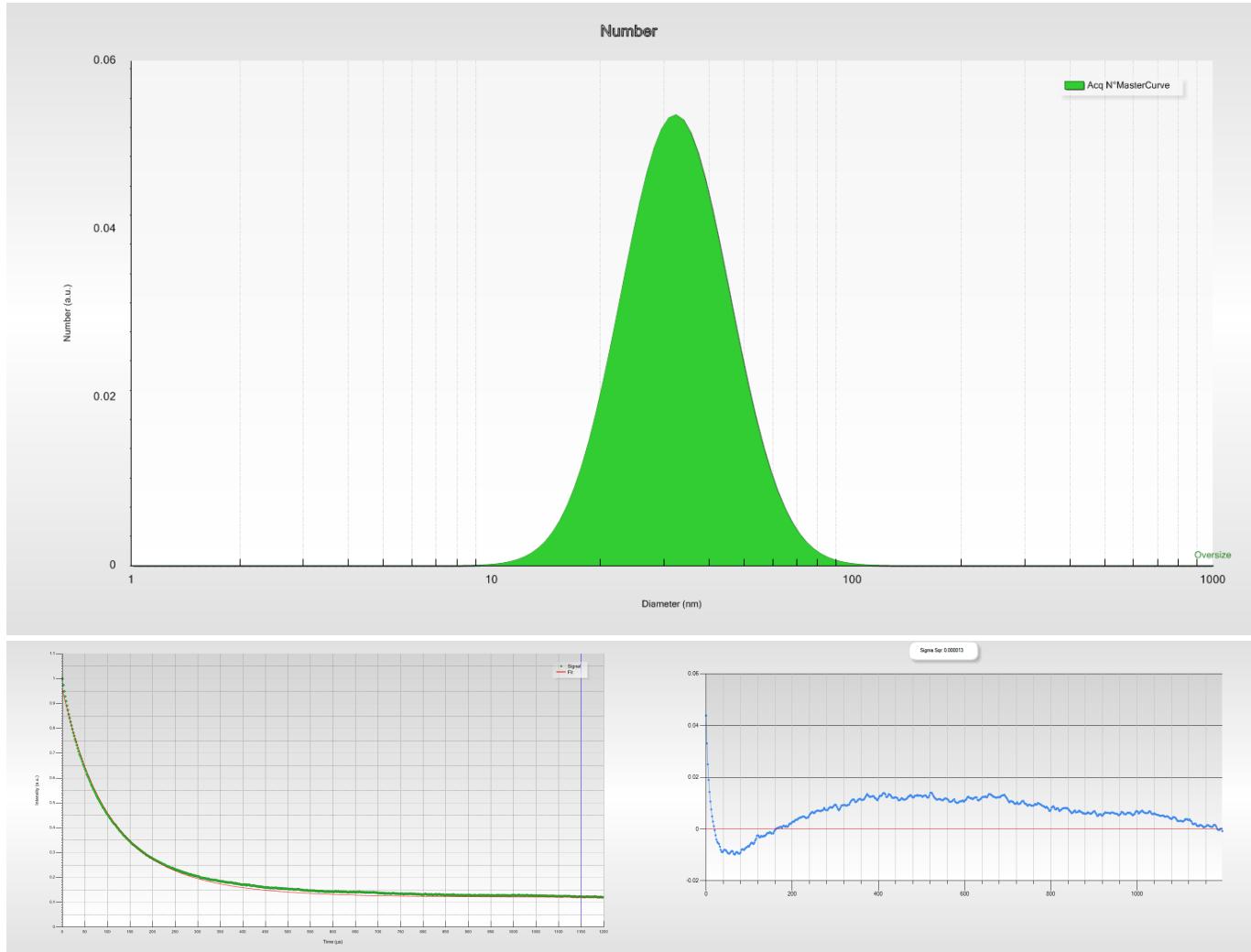
Size (nm)	Volume	Size (nm)	Volume
32.36	0.99	148.83	0.01

**Distribution statistics**

Di 10%: 42.71 nm	Di 50%: 64.75 nm	Di 90%: 98.17 nm
Mean Intensity: 68.54 nm		
PDI : 0.4946		Std Dev: 35.16%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.27	0.84	4786.71	90.55672E-013

**Distribution statistics**

Dn 10%: 20.38 nm
Mean Number: 34.2 nm
PDI : 0.4946

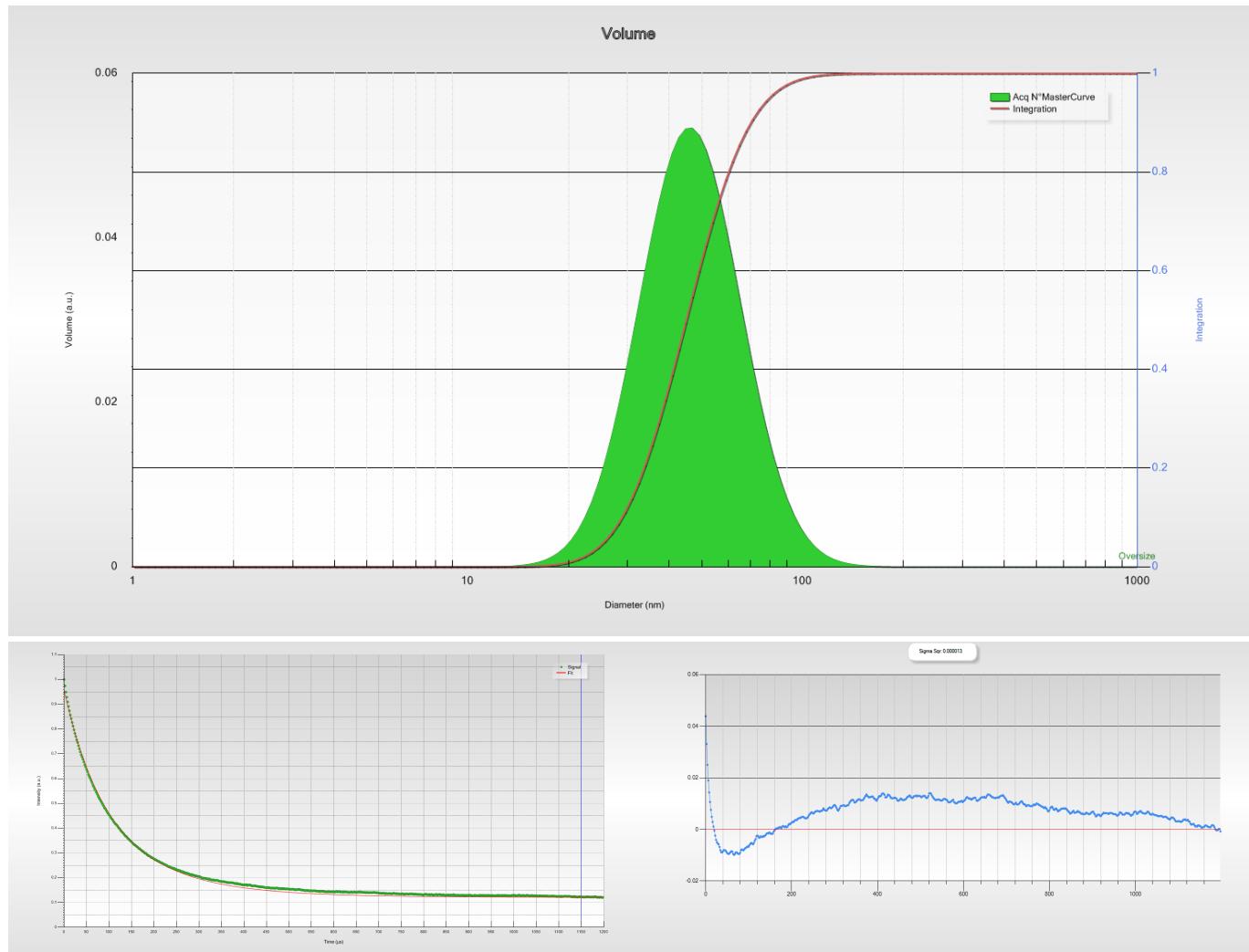
Dn 50%: 32.36 nm

Dn 90%: 49.06 nm

Std Dev: 35.16%

Detected size(s)

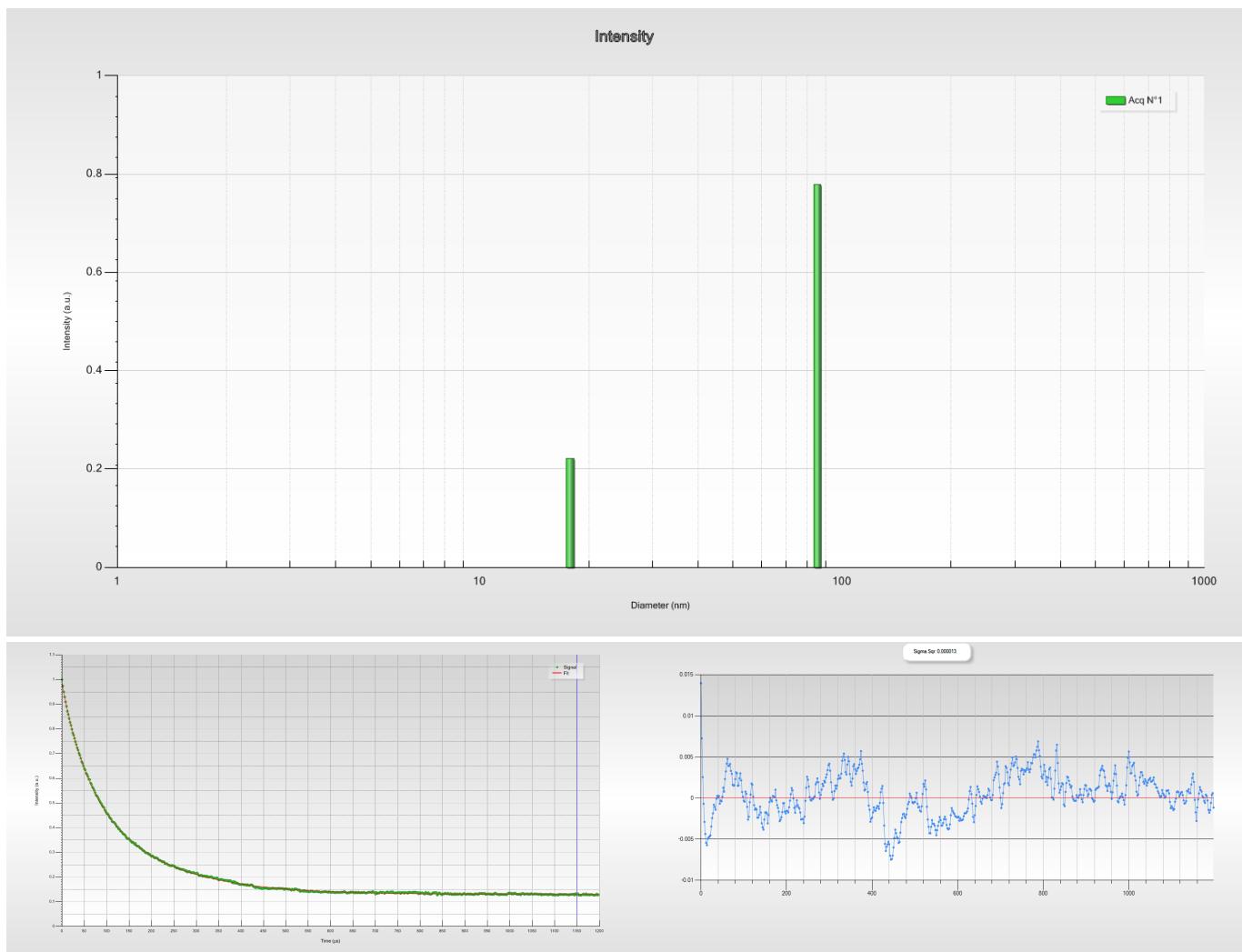
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.27	0.84	4786.71	90.55672E-013

**Distribution statistics**

D_v 10%: 29.5 nm	D_v 50%: 46.85 nm	D_v 90%: 71.02 nm
Mean Volume: 48.89 nm		
PDI : 0.4946		Std Dev: 35.16%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.27	0.84	4786.71	90.55672E-013



Dispersion statistics

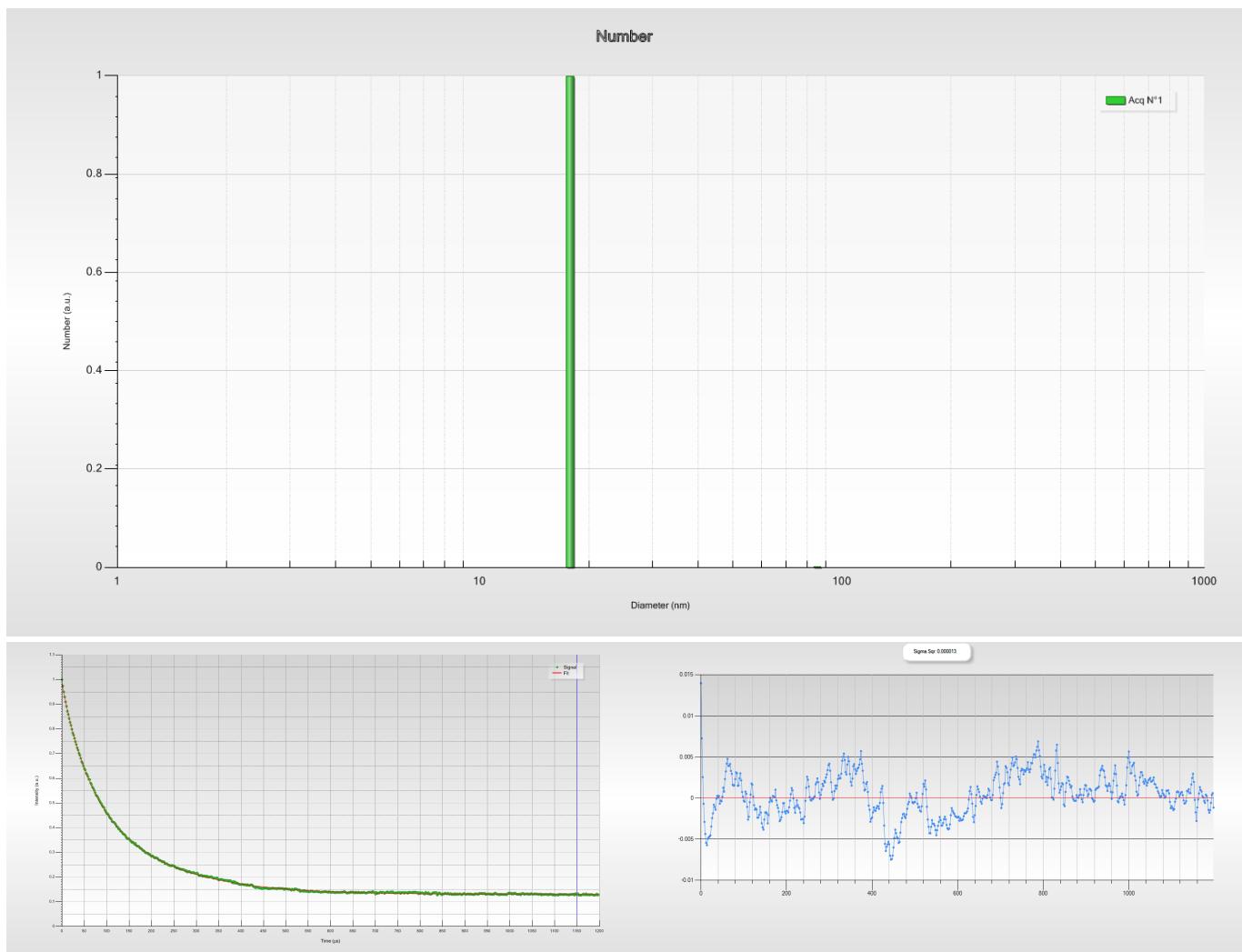
Di 10%: 17.74 nm **Di 50%:** 85.45 nm **Di 90%:** 85.45 nm
Mean Intensity: 70.5 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
17.53	0.2	14819.12	28.03537E-012
83.83	0.72	3098.82	58.62472E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
17.74	0.22	85.45	0.78



Dispersion statistics

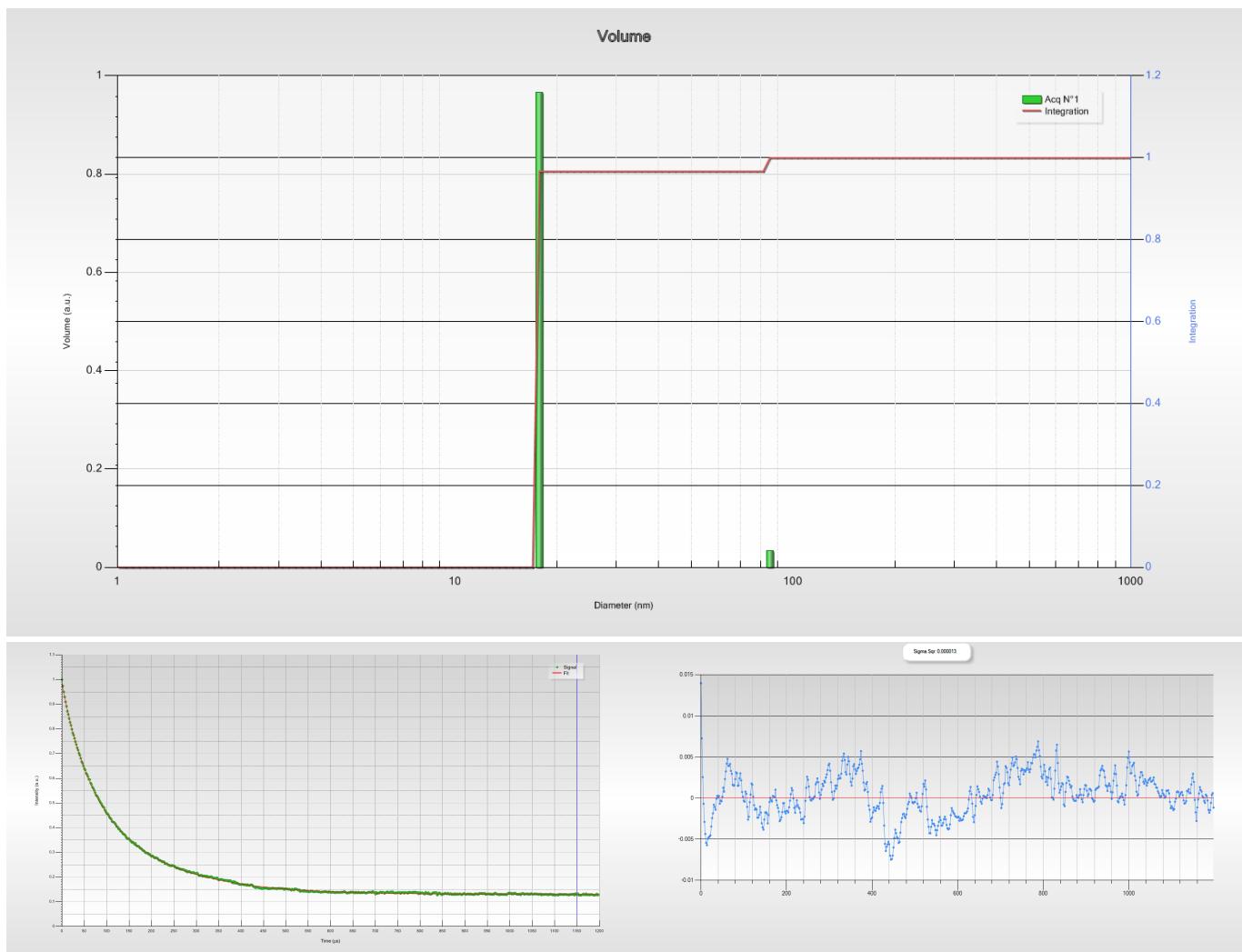
Dn 10%: 17.74 nm **Dn 50%:** 17.74 nm **Dn 90%:** 17.74 nm
Mean Number: 17.76 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
17.53	0.2	14819.12	28.03537E-012
83.83	0.72	3098.82	58.62472E-013

Dispersion data

Size (nm)	Number
17.74	1



Dispersion statistics

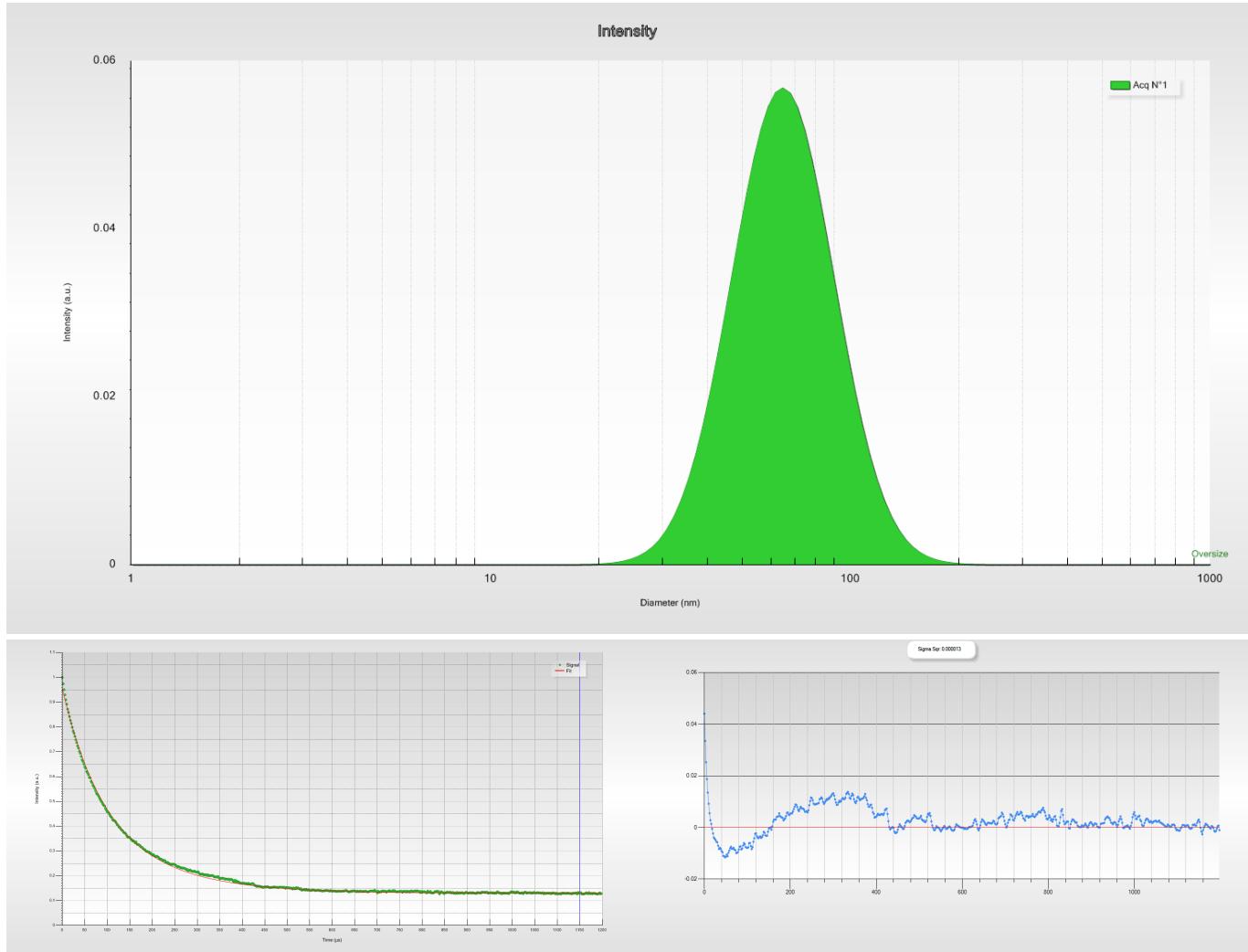
D_v 10%: 17.74 nm **D_v 50%:** 17.74 nm **D_v 90%:** 17.74 nm
Mean Volume: 19.98 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
17.53	0.2	14819.12	28.03537E-012
83.83	0.72	3098.82	58.62472E-013

Dispersion data

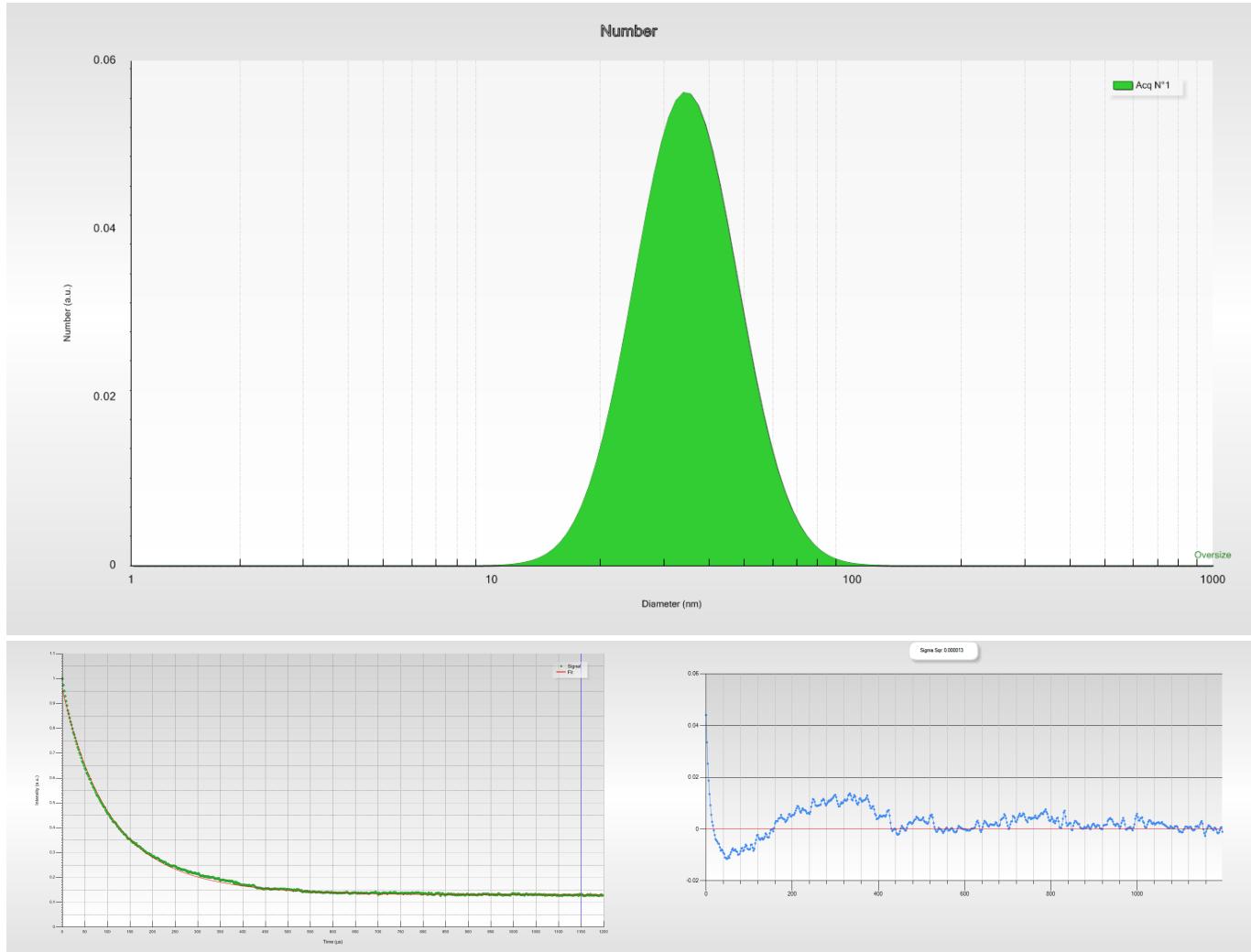
Size (nm)	Volume	Size (nm)	Volume
17.74	0.97	85.45	0.03

**Distribution statistics**

Di 10%: 42.71 nm	Di 50%: 64.75 nm	Di 90%: 98.17 nm
Mean Intensity: 68.22 nm		
PDI : 0.44521		Std Dev: 33.36%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
55.23	0.83	4703.99	88.99195E-013

**Distribution statistics**

Dn 10%: 22.36 nm
Mean Number: 36.38 nm
PDI : 0.44521

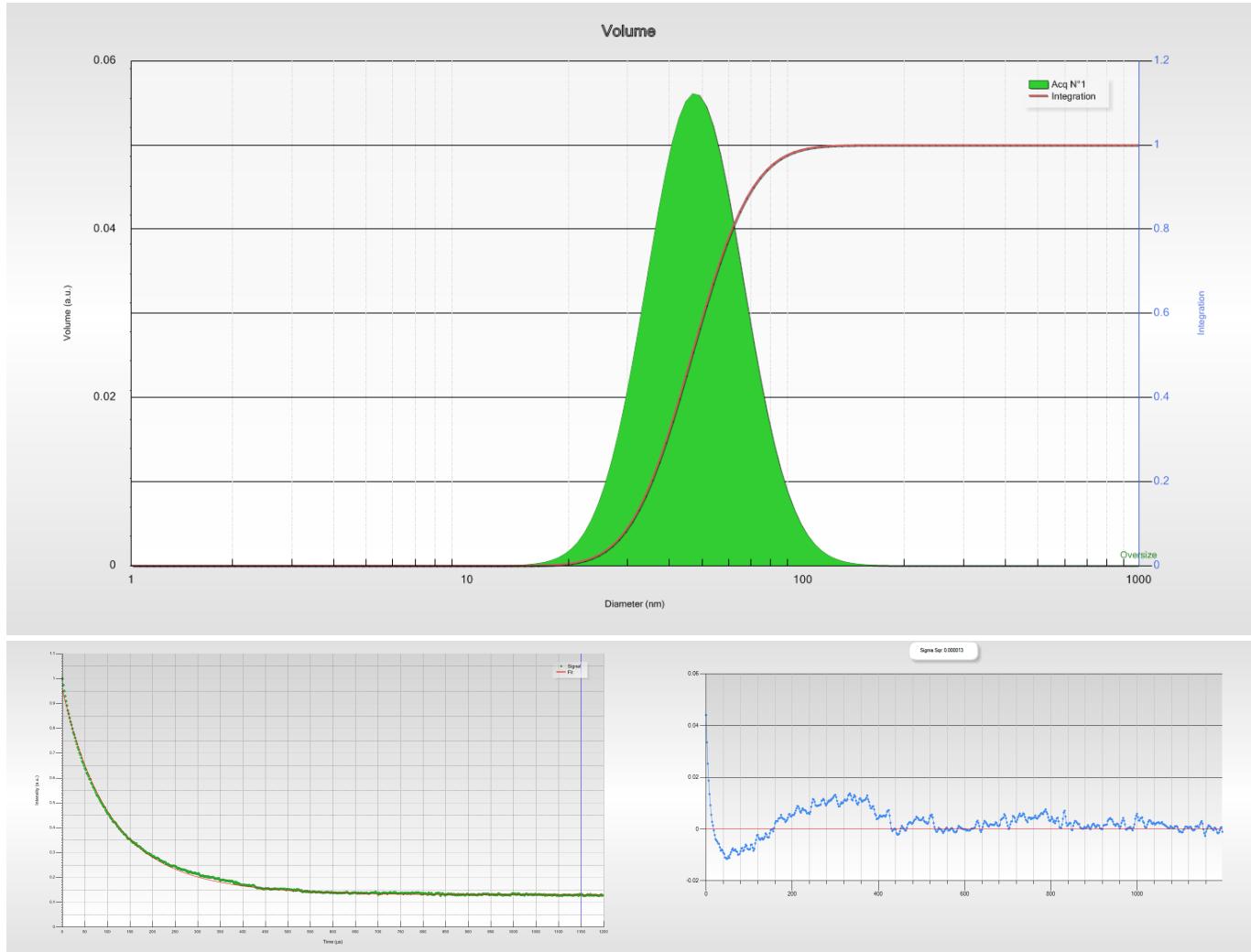
Dn 50%: 33.89 nm

Dn 90%: 51.39 nm

Std Dev: 33.36%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
55.23	0.83	4703.99	88.99195E-013

**Distribution statistics**

D_v 10%: 30.9 nm	D_v 50%: 46.85 nm	D_v 90%: 71.02 nm
Mean Volume: 50.27 nm		
PDI : 0.44521		Std Dev: 33.36%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
55.23	0.83	4703.99	88.99195E-013



Dispersion statistics

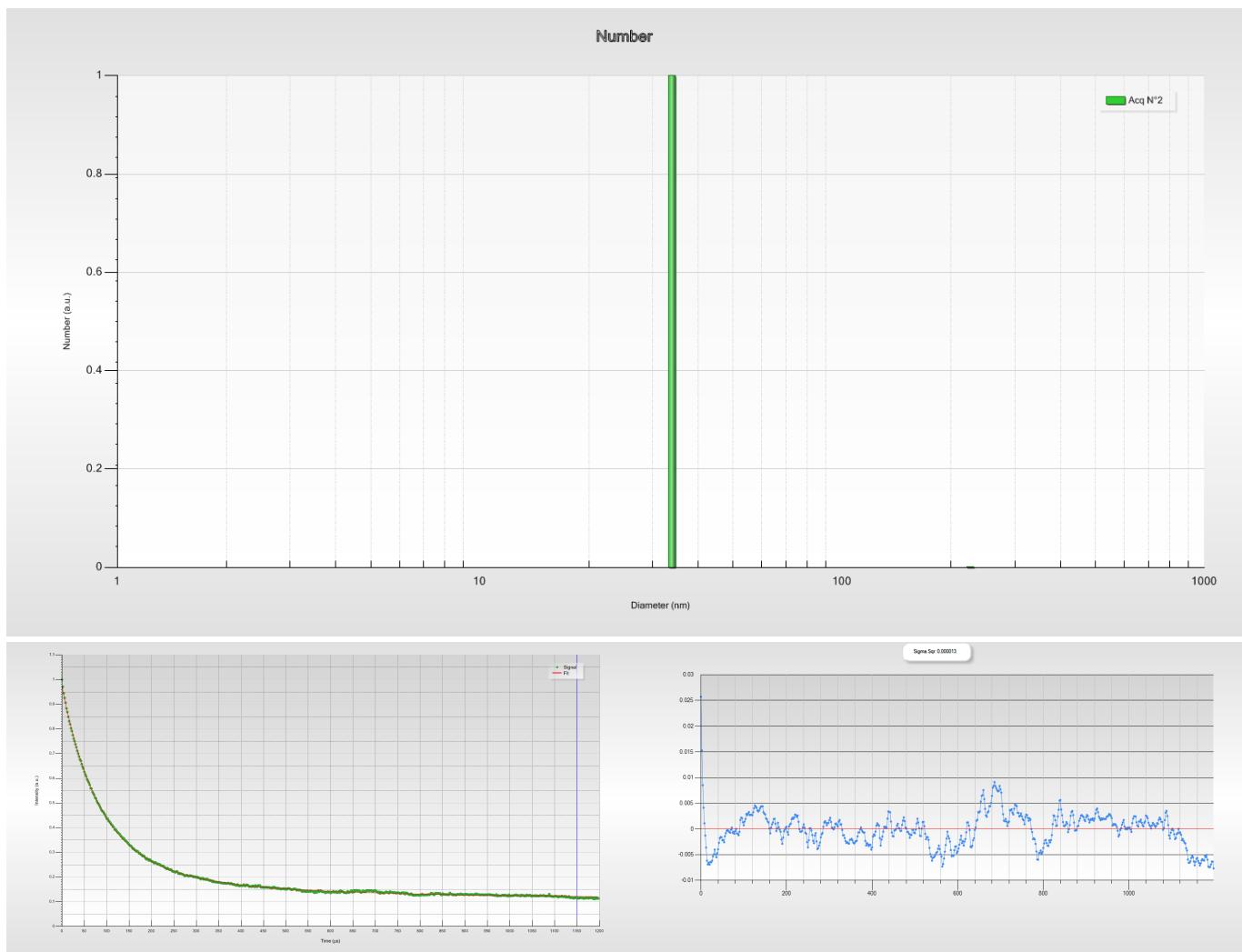
Di 10%: 33.89 nm **Di 50%:** 33.89 nm **Di 90%:** 225.64 nm
Mean Intensity: 100.31 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.06	0.61	7627.55	14.43008E-012
230.91	0.32	1125.06	21.28438E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
33.89	0.65	225.64	0.35



Dispersion statistics

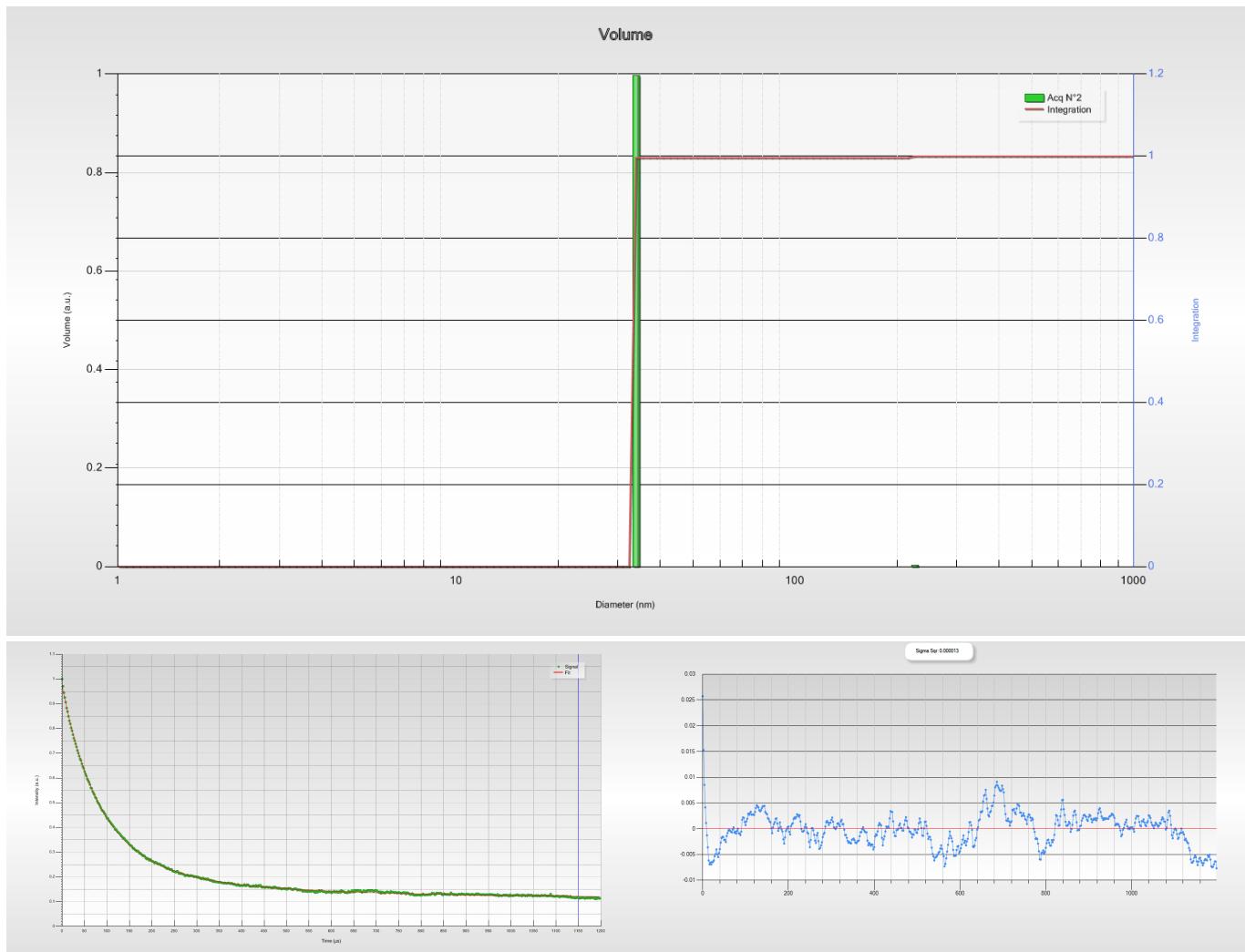
Dn 10%: 33.89 nm **Dn 50%:** 33.89 nm **Dn 90%:** 33.89 nm
Mean Number: 33.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.06	0.61	7627.55	14.43008E-012
230.91	0.32	1125.06	21.28438E-013

Dispersion data

Size (nm)	Number
33.89	1



Dispersion statistics

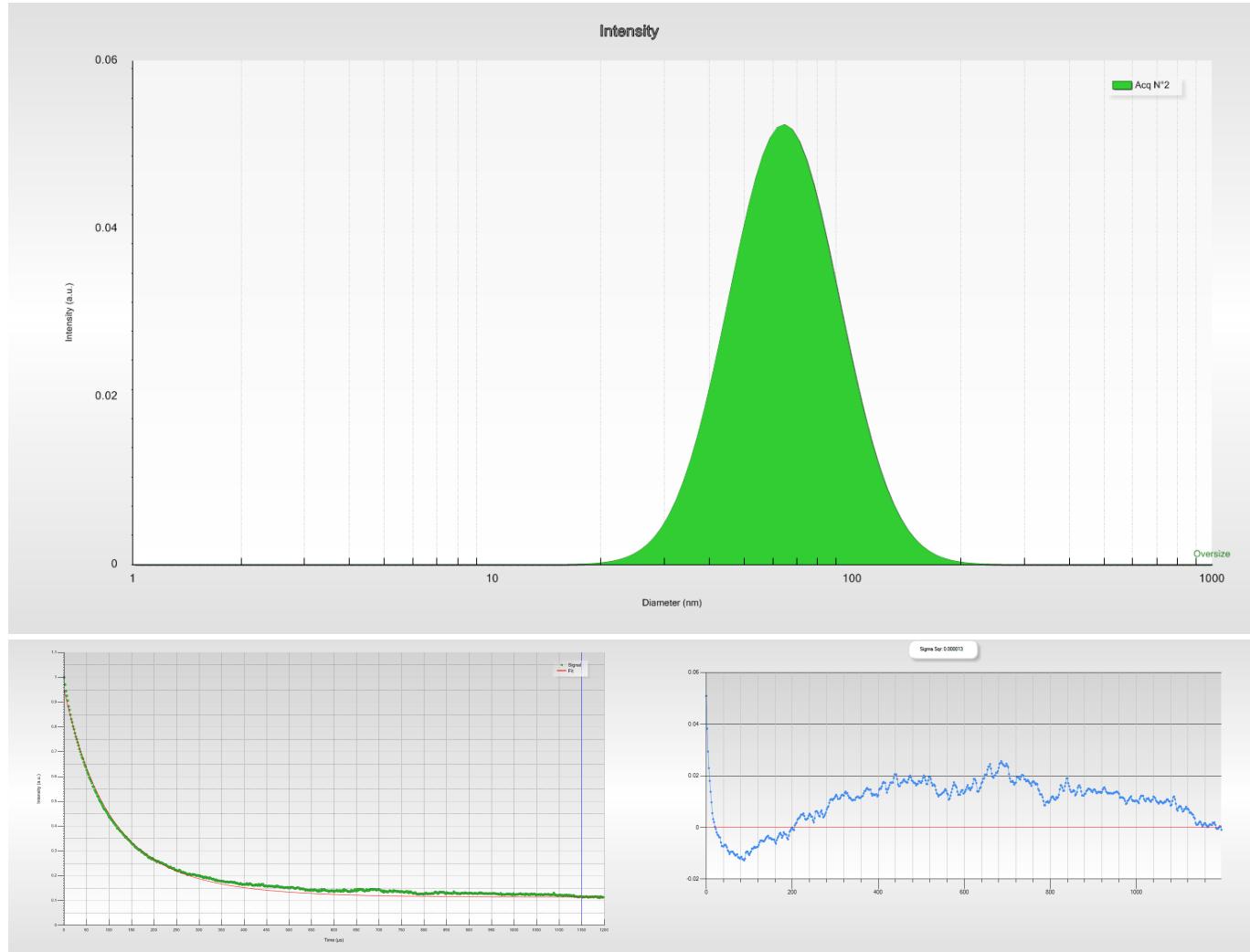
D_v 10%: 33.89 nm **D_v 50%:** 33.89 nm **D_v 90%:** 33.89 nm
Mean Volume: 34.58 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
34.06	0.61	7627.55	14.43008E-012
230.91	0.32	1125.06	21.28438E-013

Dispersion data

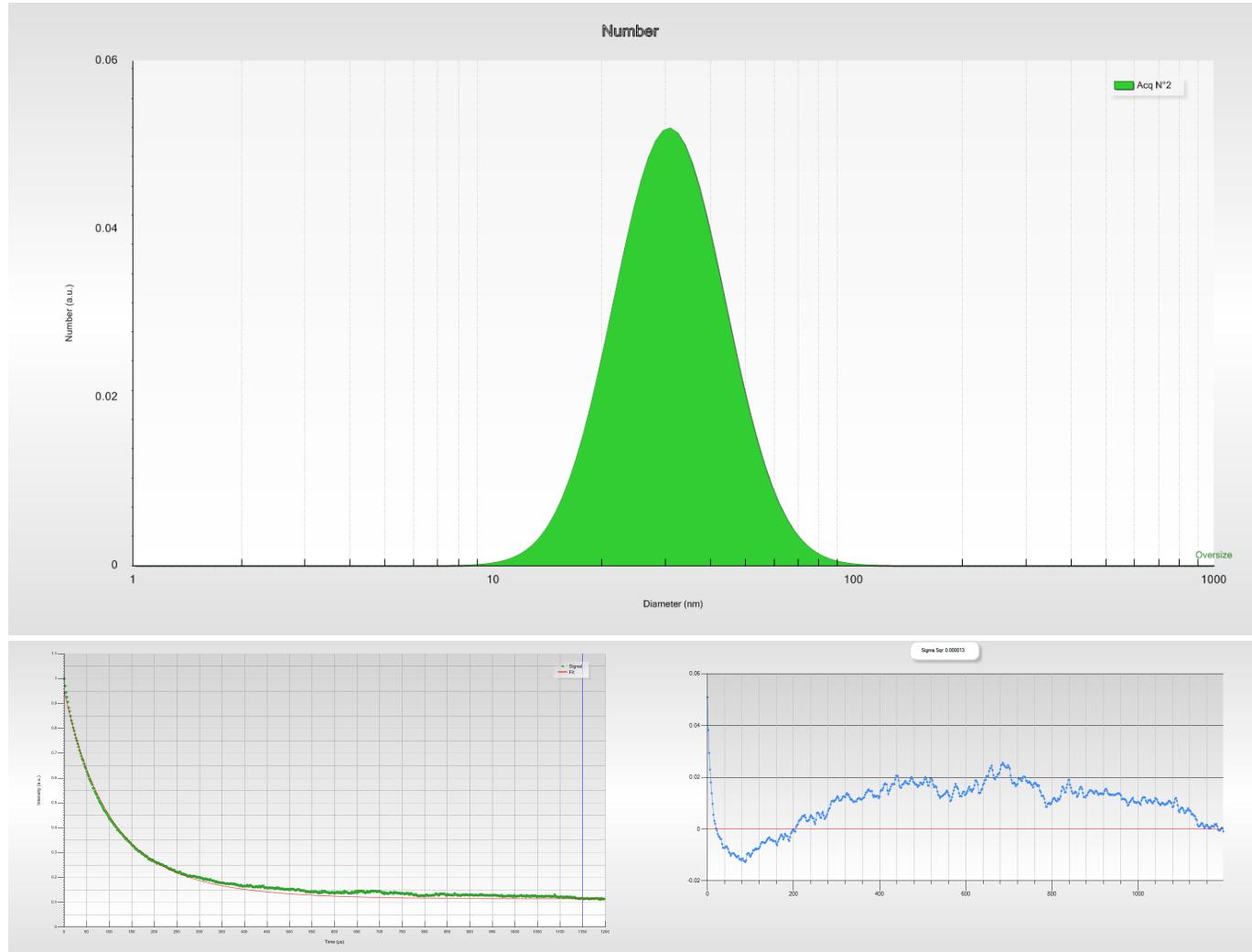
Size (nm)	Volume
33.89	1

**Distribution statistics**

Di 10%: 40.78 nm	Di 50%: 64.75 nm	Di 90%: 102.81 nm
Mean Intensity: 68.53 nm		
PDI : 0.52727		Std Dev: 36.31%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.49	0.83	4856.97	91.88609E-013

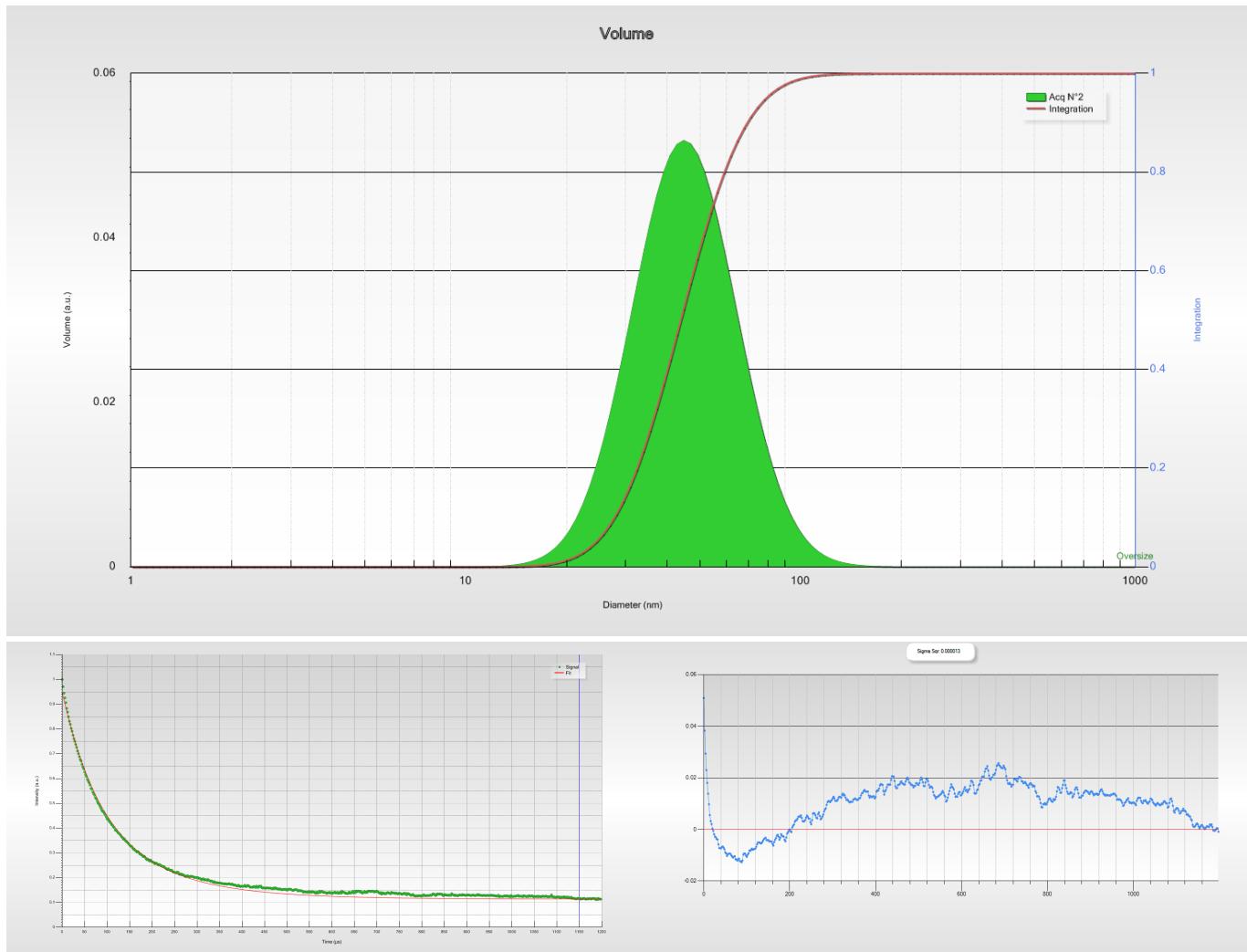


Distribution statistics

Dn 10%: 19.46 nm	Dn 50%: 30.9 nm	Dn 90%: 49.06 nm
Mean Number: 32.75 nm		
PDI : 0.52727		Std Dev: 36.31%

Detected size(s)

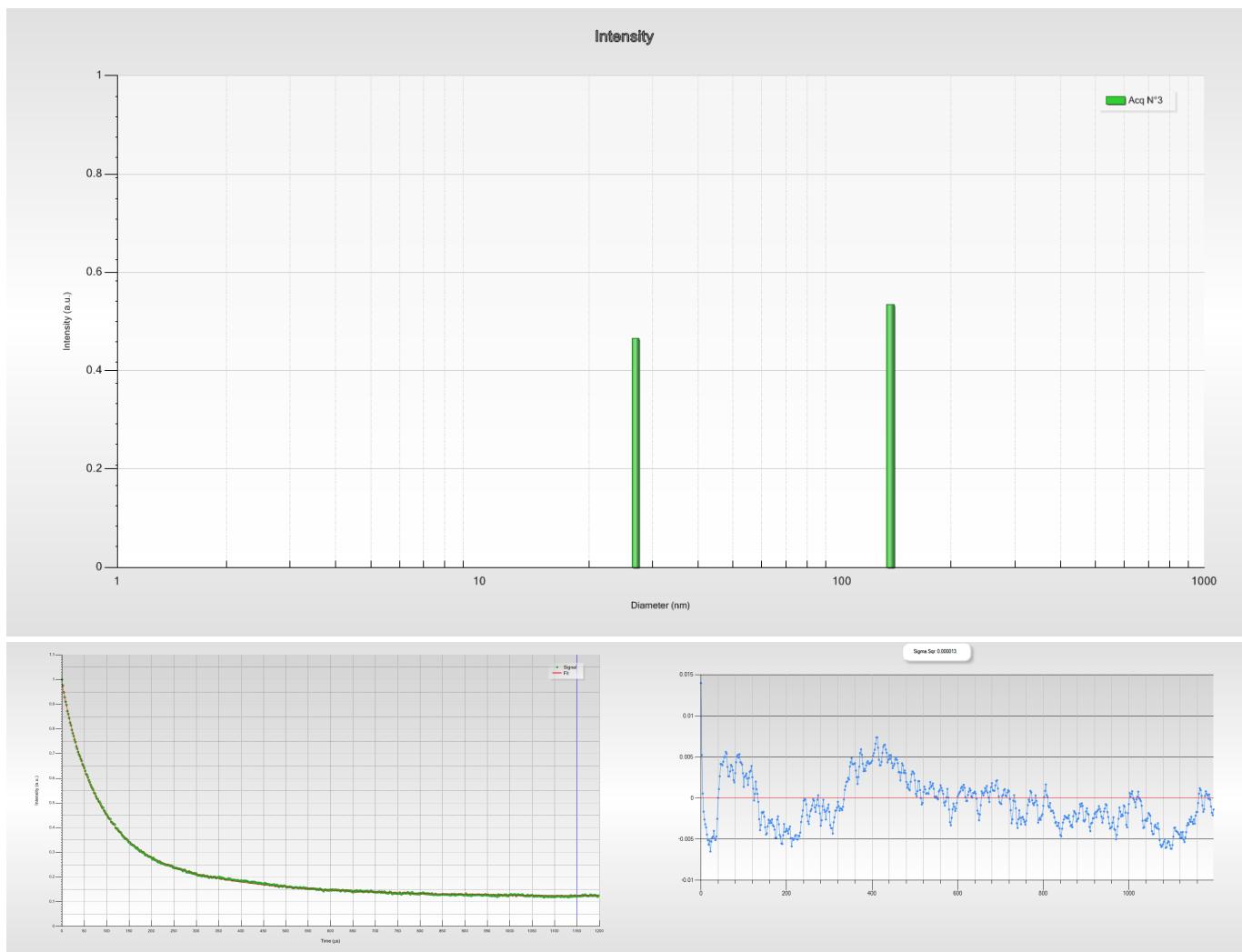
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.49	0.83	4856.97	91.88609E-013

**Distribution statistics**

D_v 10%: 28.17 nm	D_v 50%: 44.73 nm	D_v 90%: 71.02 nm
Mean Volume: 47.85 nm		
PDI : 0.52727		Std Dev: 36.31%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.49	0.83	4856.97	91.88609E-013



Dispersion statistics

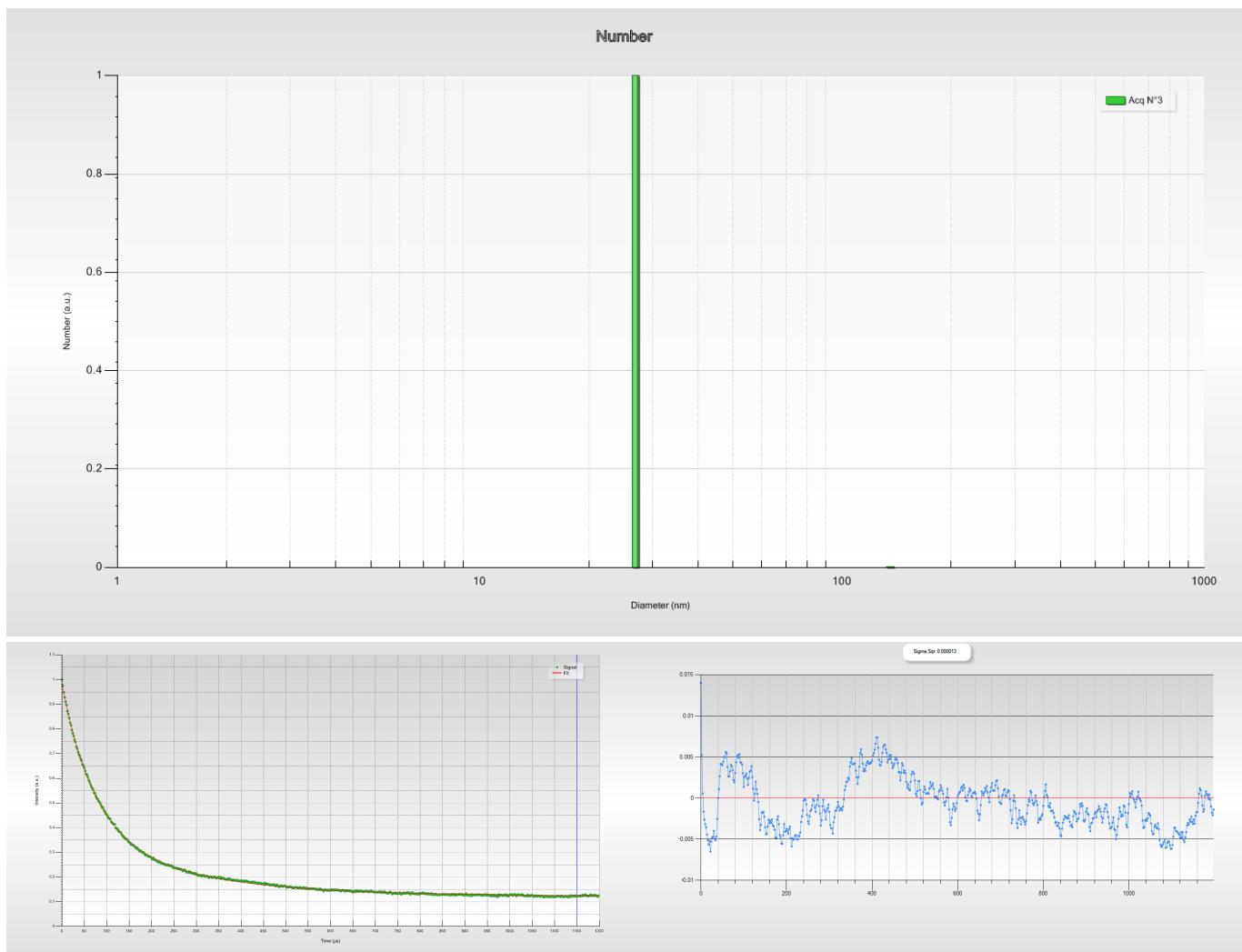
Di 10%: 26.9 nm **Di 50%:** 135.68 nm **Di 90%:** 135.68 nm
Mean Intensity: 85.11 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
26.43	0.43	9827.95	18.59289E-012
134.51	0.5	1931.38	36.53849E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
26.9	0.46	135.68	0.54



Dispersion statistics

Dn 10%: 26.9 nm
Mean Number: 26.91 nm

Dn 50%: 26.9 nm

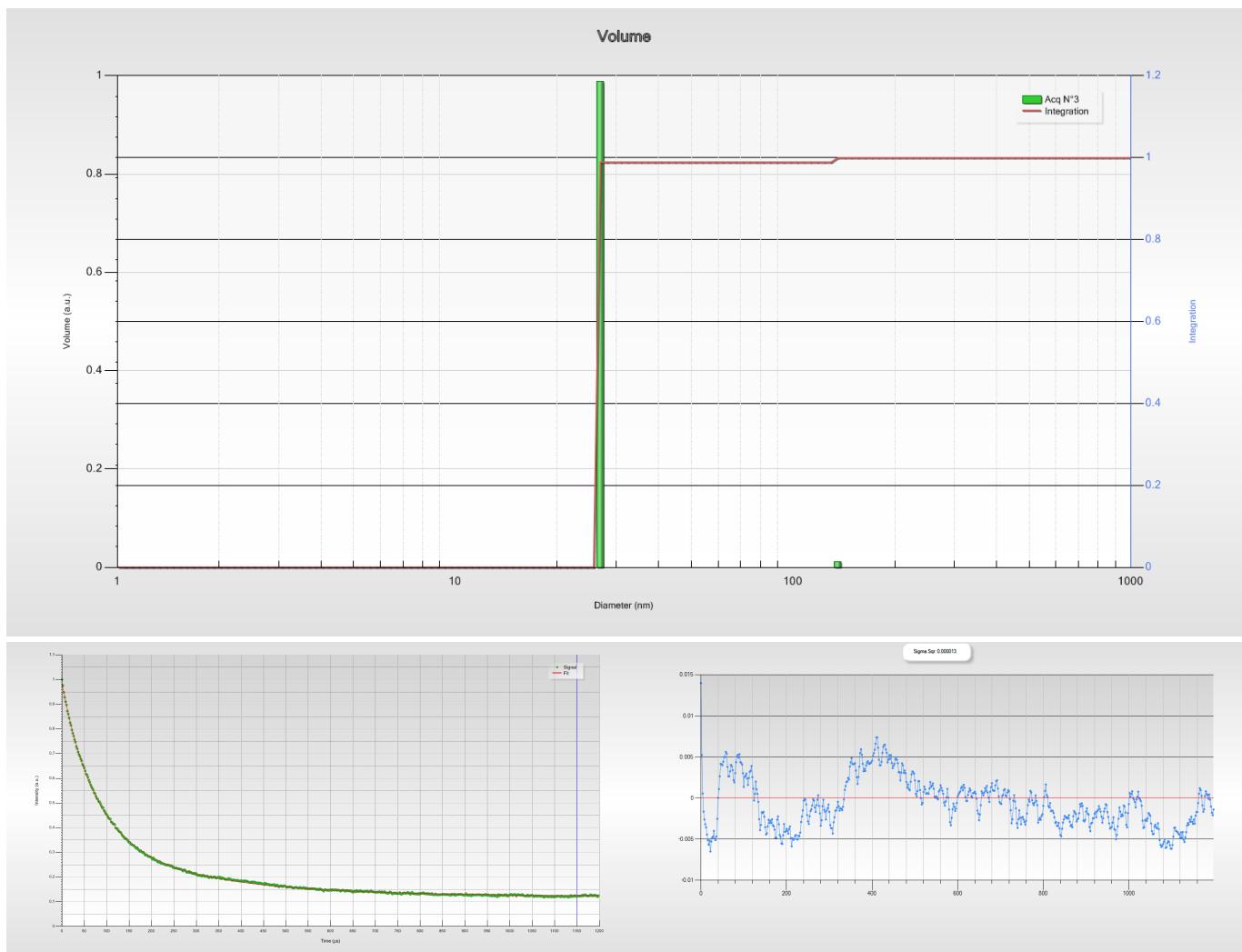
Dn 90%: 26.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
26.43	0.43	9827.95	18.59289E-012
134.51	0.5	1931.38	36.53849E-013

Dispersion data

Size (nm)	Number
26.9	1



Dispersion statistics

Dv 10%: 26.9 nm
Mean Volume: 28.09 nm

Dv 50%: 26.9 nm

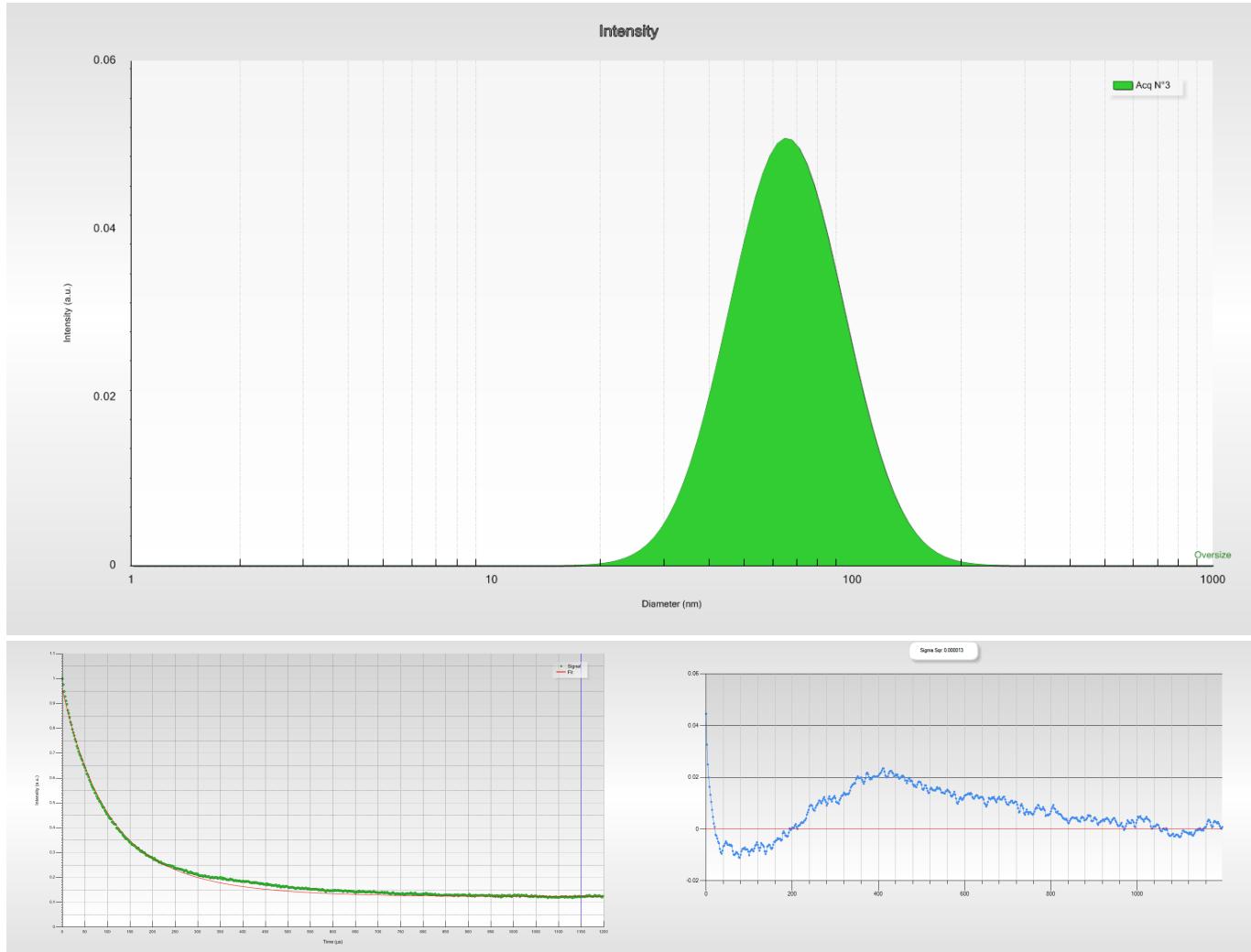
Dv 90%: 26.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
26.43	0.43	9827.95	18.59289E-012
134.51	0.5	1931.38	36.53849E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
26.9	0.99	135.68	0.01

**Distribution statistics**

Di 10%: 40.78 nm	Di 50%: 64.75 nm	Di 90%: 102.81 nm
Mean Intensity: 70.02 nm		
PDI : 0.56307		Std Dev: 37.52%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.8	0.83	4829.09	91.35849E-013

**Distribution statistics**

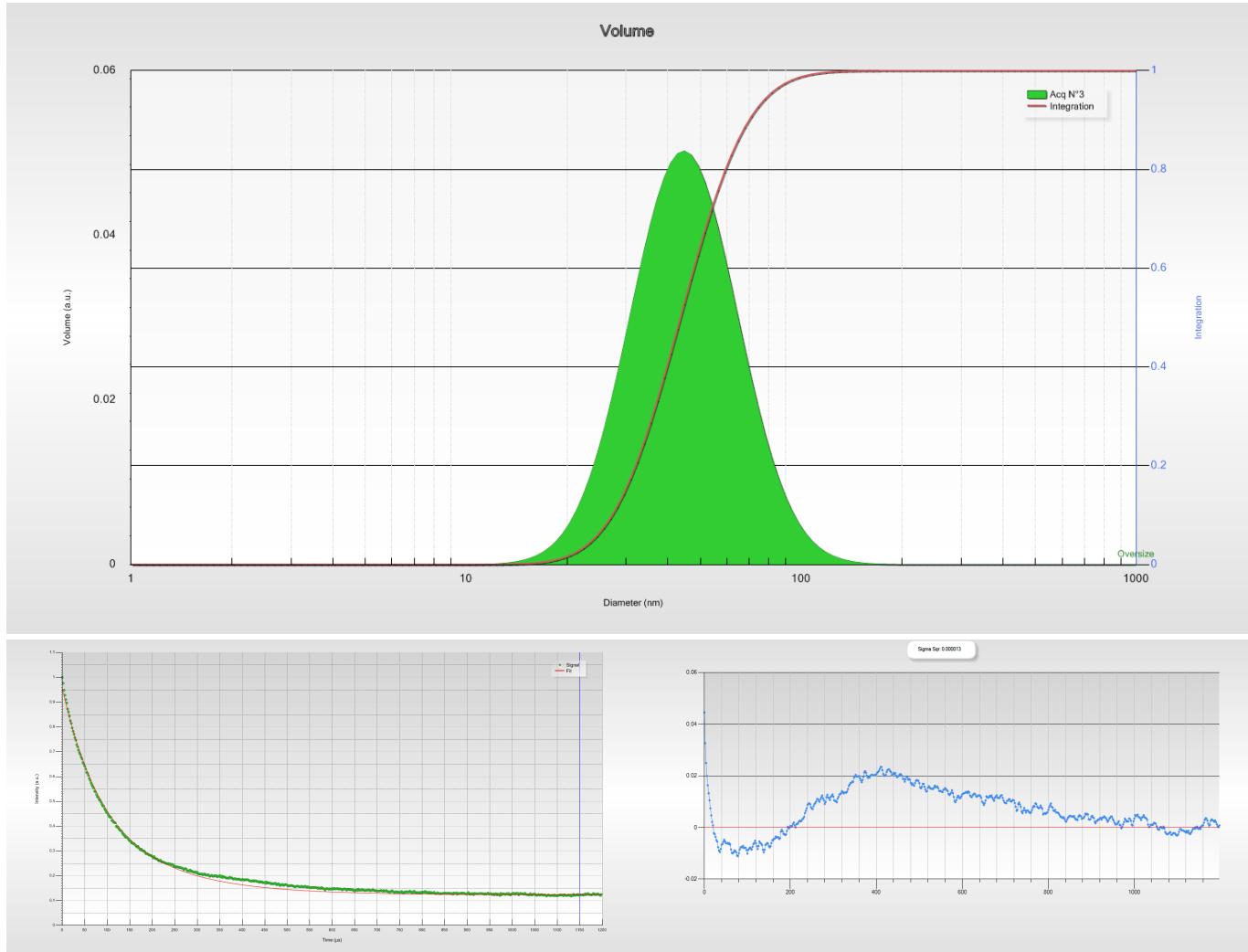
Dn 10%: 18.58 nm
Mean Number: 31.92 nm
PDI : 0.56307

Dn 50%: 29.5 nm

Dn 90%: 46.85 nm
Std Dev: 37.52%

Detected size(s)

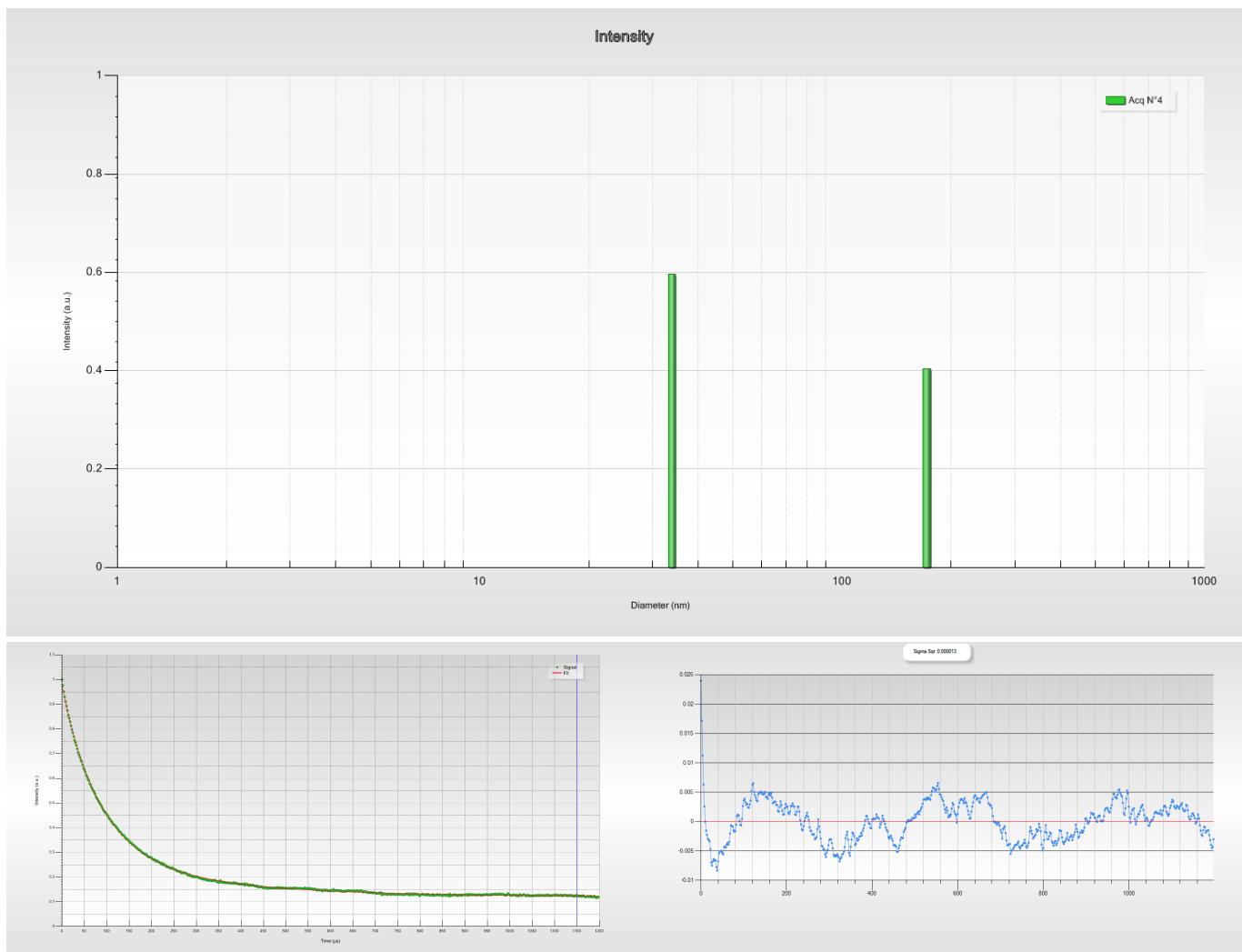
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.8	0.83	4829.09	91.35849E-013

**Distribution statistics**

D_v 10%: 28.17 nm	D_v 50%: 44.73 nm	D_v 90%: 71.02 nm
Mean Volume: 47.78 nm		
PDI : 0.56307		Std Dev: 37.52%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
53.8	0.83	4829.09	91.35849E-013



Dispersion statistics

Di 10%: 33.89 nm
Mean Intensity: 89.17 nm

Di 50%: 33.89 nm

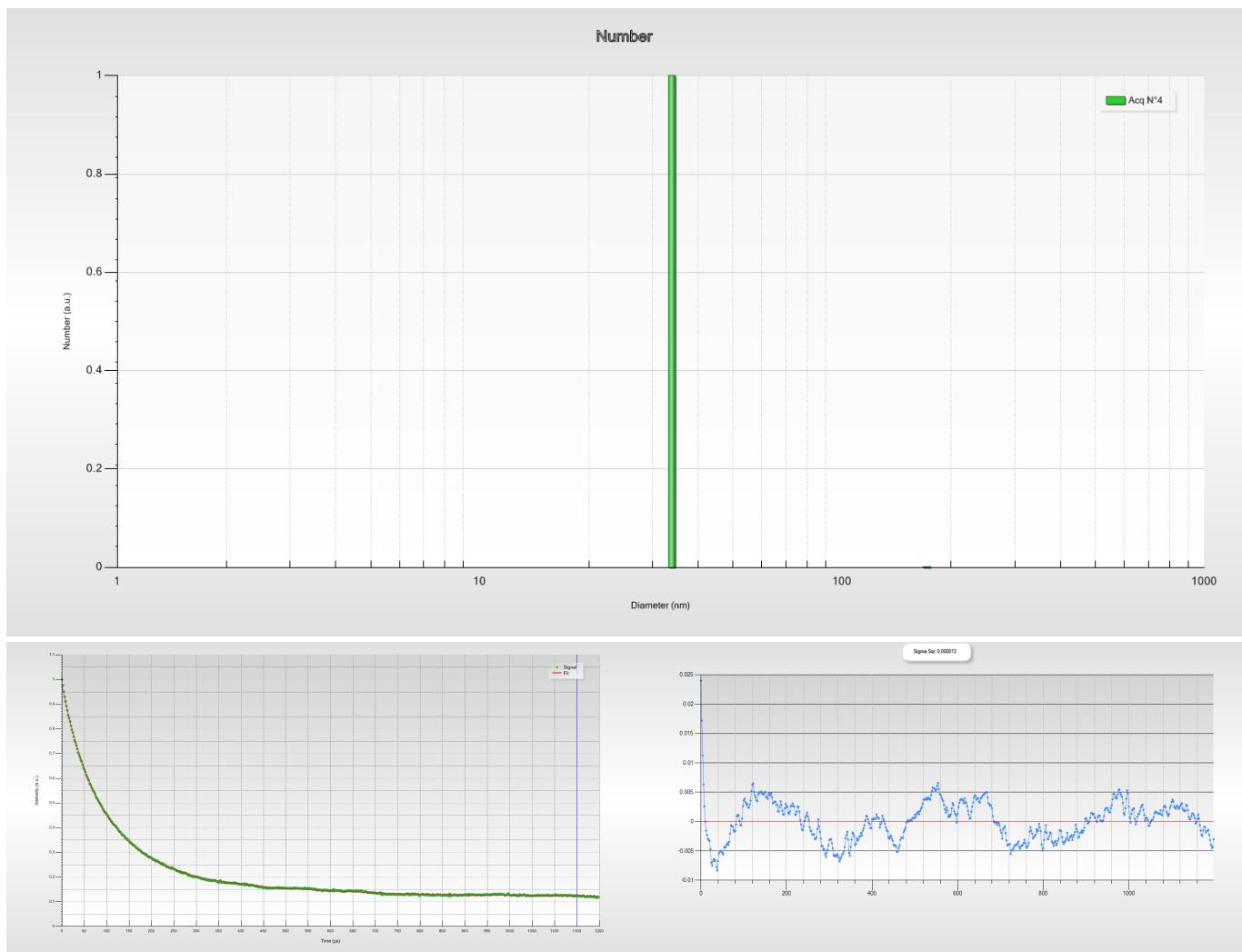
Di 90%: 170.97 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
33.55	0.55	7742.14	14.64687E-012
174.13	0.37	1491.94	28.22507E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
33.89	0.6	170.97	0.4



Dispersion statistics

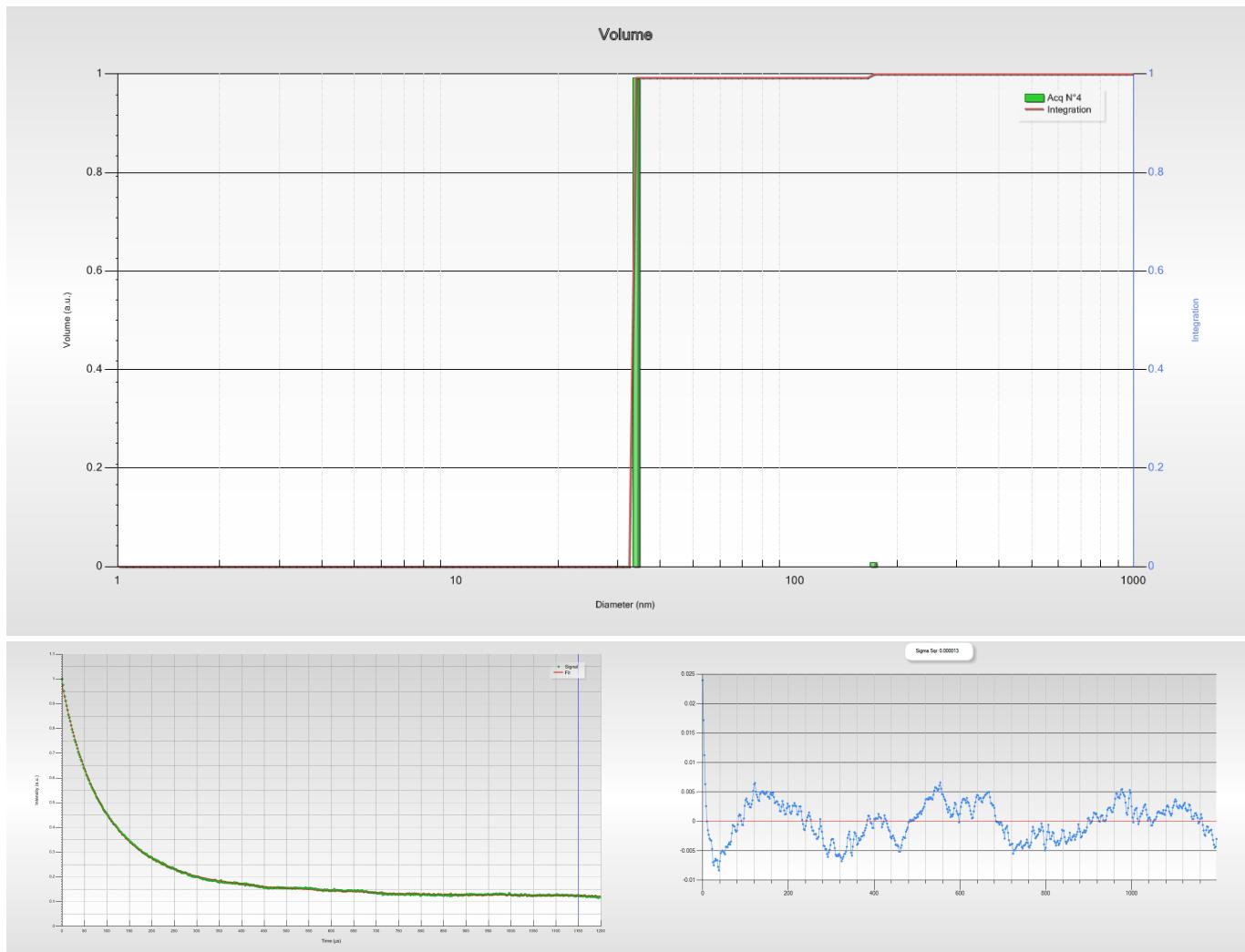
Dn 10%: 33.89 nm **Dn 50%:** 33.89 nm **Dn 90%:** 33.89 nm
Mean Number: 33.9 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
33.55	0.55	7742.14	14.64687E-012
174.13	0.37	1491.94	28.22507E-013

Dispersion data

Size (nm)	Number
33.89	1



Dispersion statistics

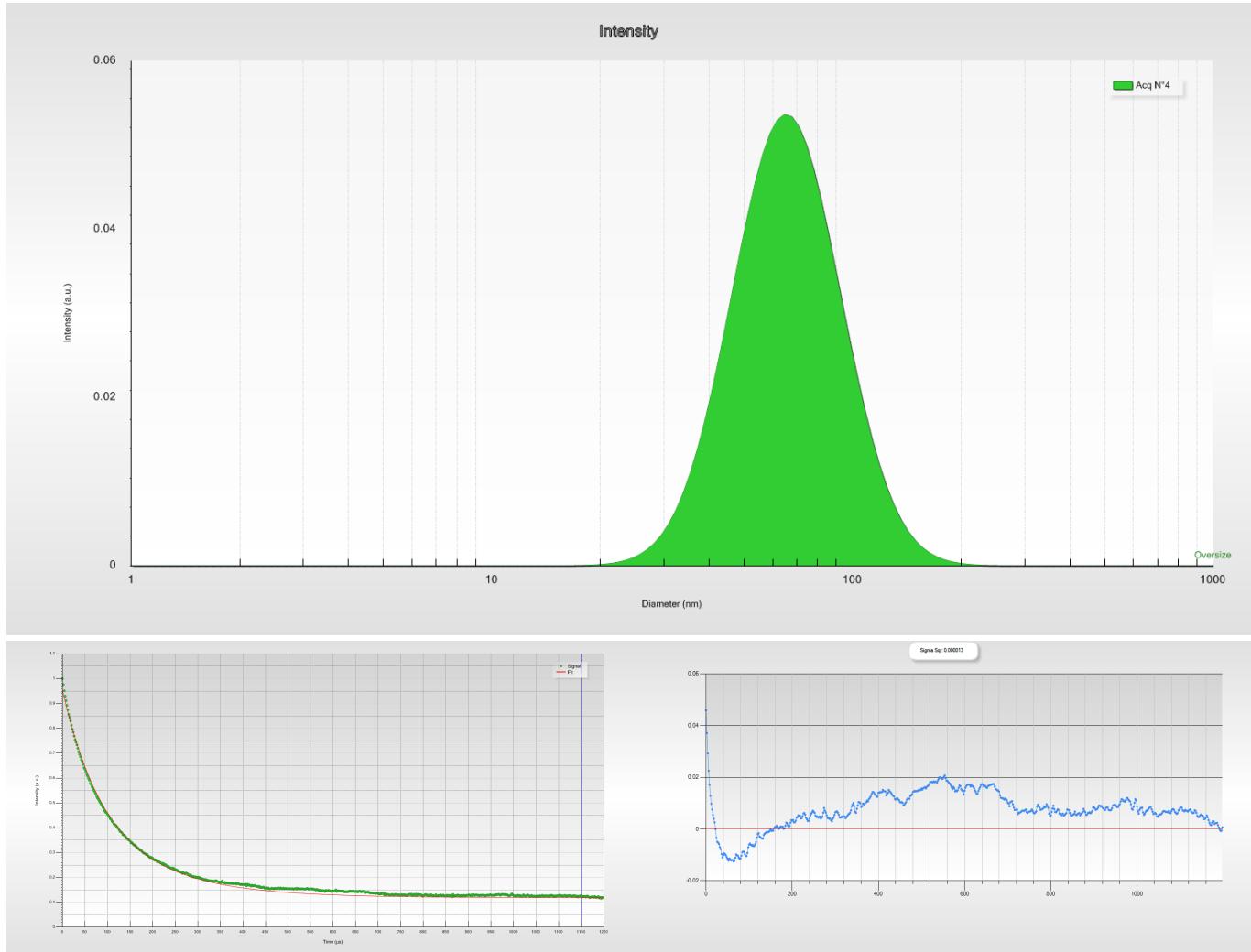
D_v 10%: 33.89 nm **D_v 50%:** 33.89 nm **D_v 90%:** 33.89 nm
Mean Volume: 34.92 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
33.55	0.55	7742.14	14.64687E-012
174.13	0.37	1491.94	28.22507E-013

Dispersion data

Size (nm)	Volume	Size (nm)	Volume
33.89	0.99	170.97	0.01



Distribution statistics

Di 10%: 42.71 nm	Di 50%: 64.75 nm	Di 90%: 102.81 nm
Mean Intensity: 69.32 nm		
PDI : 0.50146		Std Dev: 35.41%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.73	0.84	4746.95	89.80456E-013

**Distribution statistics**

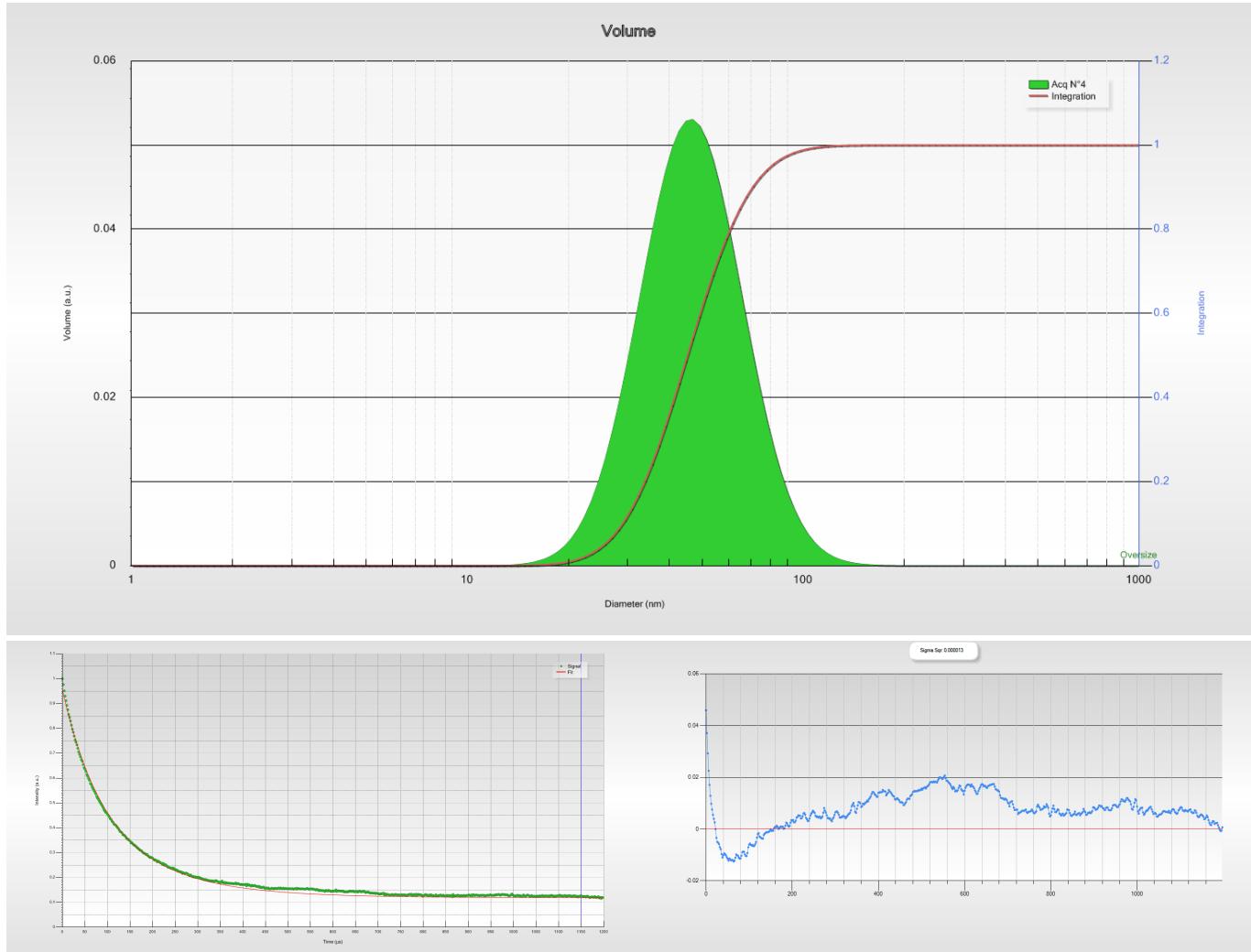
Dn 10%: 20.38 nm
Mean Number: 34.28 nm
PDI : 0.50146

Dn 50%: 32.36 nm

Dn 90%: 51.39 nm
Std Dev: 35.41%

Detected size(s)

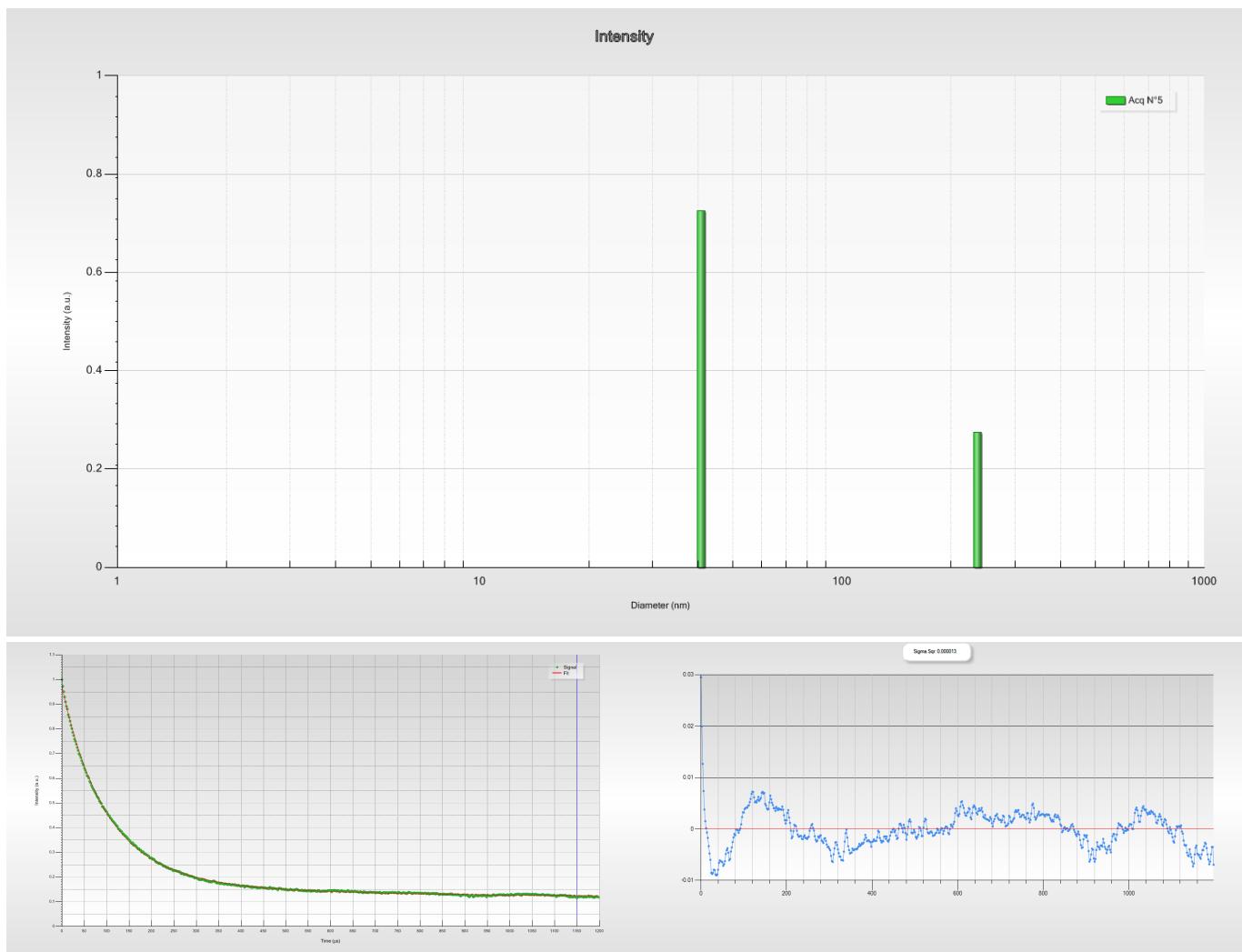
Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.73	0.84	4746.95	89.80456E-013

**Distribution statistics**

D_v 10%: 29.5 nm	D_v 50%: 46.85 nm	D_v 90%: 71.02 nm
Mean Volume: 49.24 nm		
PDI : 0.50146		Std Dev: 35.41%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.73	0.84	4746.95	89.80456E-013



Dispersion statistics

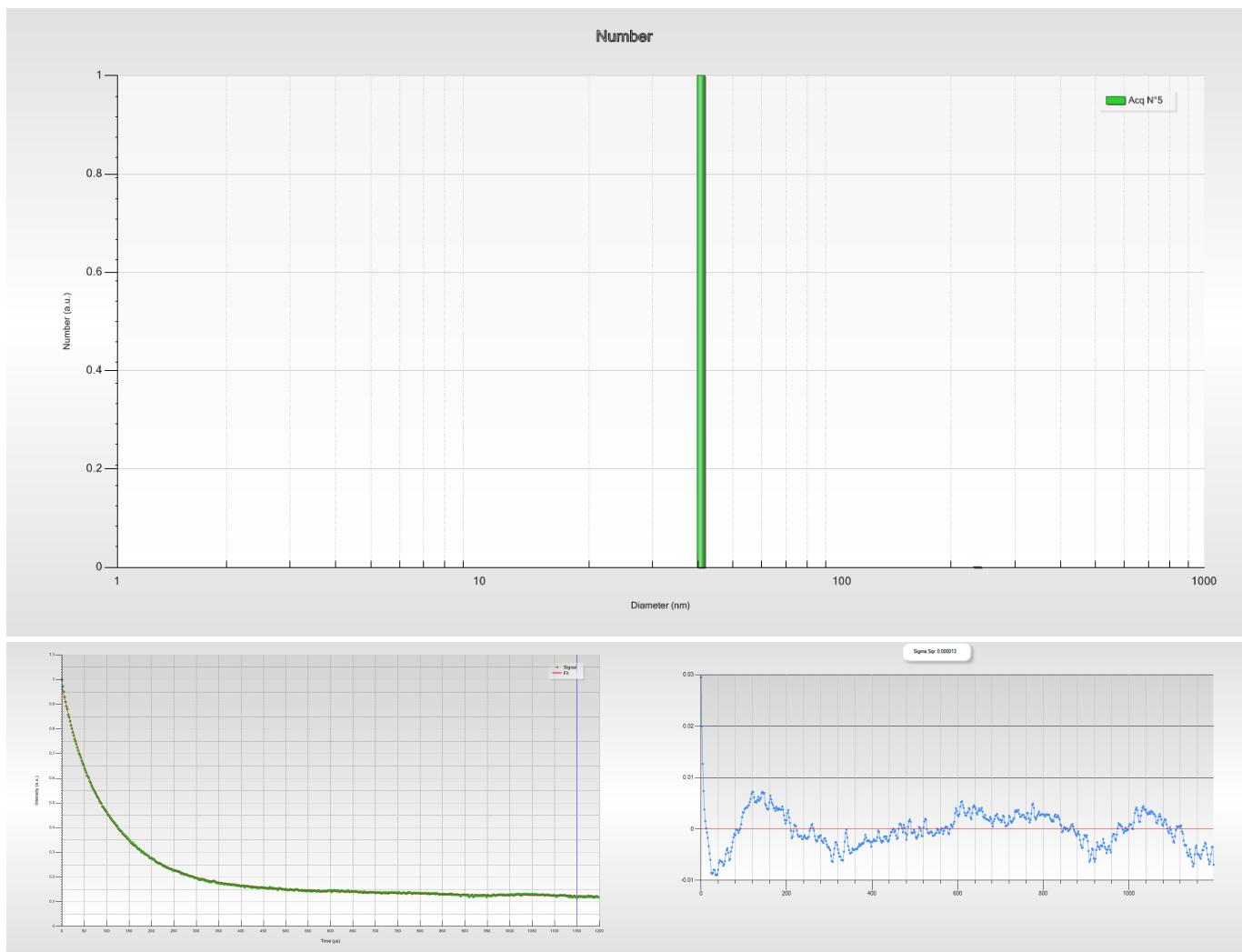
Di 10%: 40.78 nm **Di 50%:** 40.78 nm **Di 90%:** 236.32 nm
Mean Intensity: 94.39 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
41.1	0.67	6321.33	11.95894E-012
235.34	0.25	1103.88	20.88366E-013

Dispersion data

Size (nm)	Intensity	Size (nm)	Intensity
40.78	0.73	236.32	0.27



Dispersion statistics

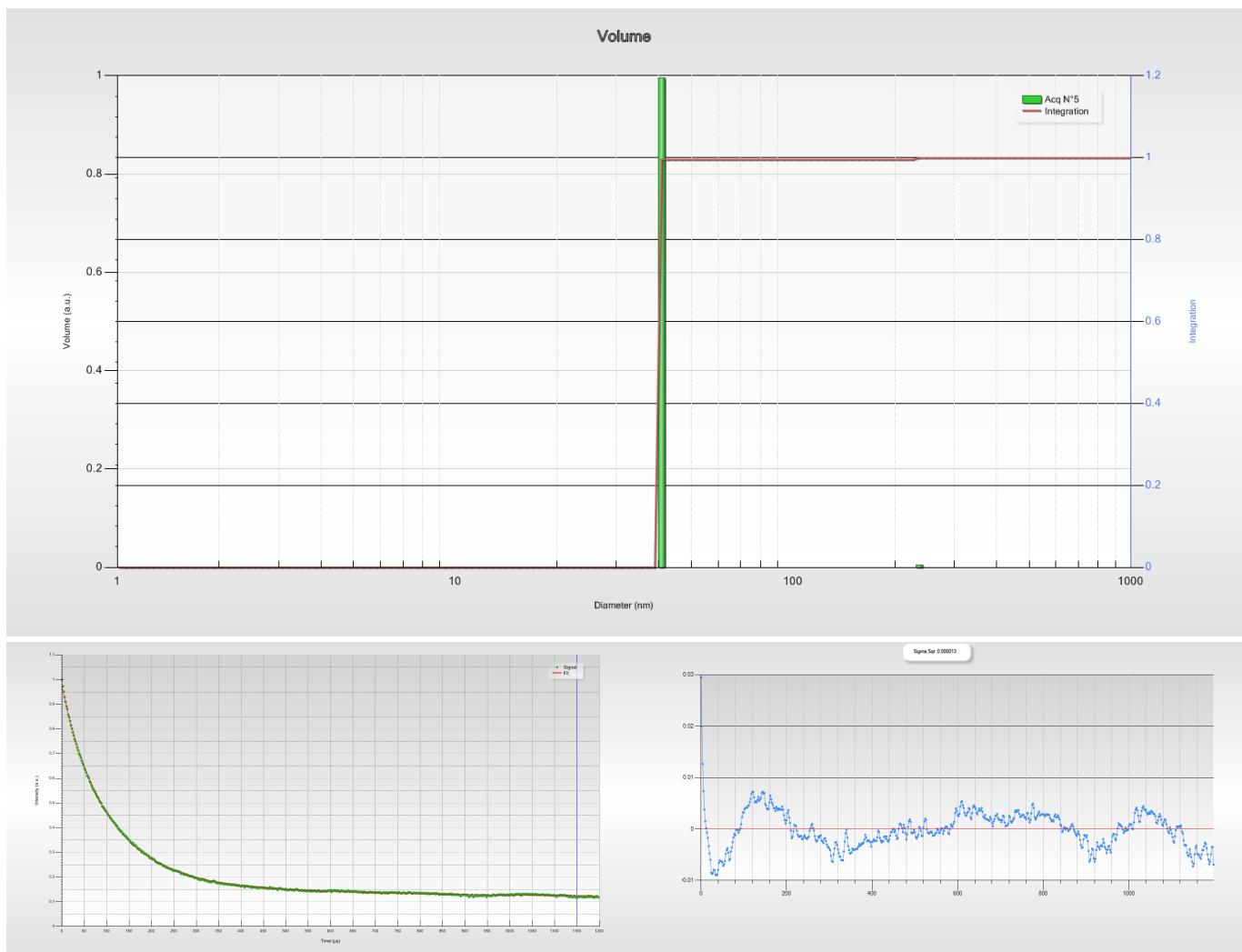
Dn 10%: 40.78 nm **Dn 50%:** 40.78 nm **Dn 90%:** 40.78 nm
Mean Number: 40.78 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
41.1	0.67	6321.33	11.95894E-012
235.34	0.25	1103.88	20.88366E-013

Dispersion data

Size (nm)	Number
40.78	1



Dispersion statistics

D_v 10%: 40.78 nm **D_v 50%:** 40.78 nm **D_v 90%:** 40.78 nm
Mean Volume: 41.59 nm

Detected size(s)

Size (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
41.1	0.67	6321.33	11.95894E-012
235.34	0.25	1103.88	20.88366E-013

Dispersion data

Size (nm)	Volume
40.78	1



Distribution statistics

Di 10%: 40.78 nm	Di 50%: 64.75 nm	Di 90%: 98.17 nm
Mean Intensity: 67.87 nm		
PDI : 0.4775		Std Dev: 34.55%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.15	0.84	4797.29	90.75687E-013

**Distribution statistics**

Dn 10%: 21.35 nm
Mean Number: 34.65 nm
PDI : 0.4775

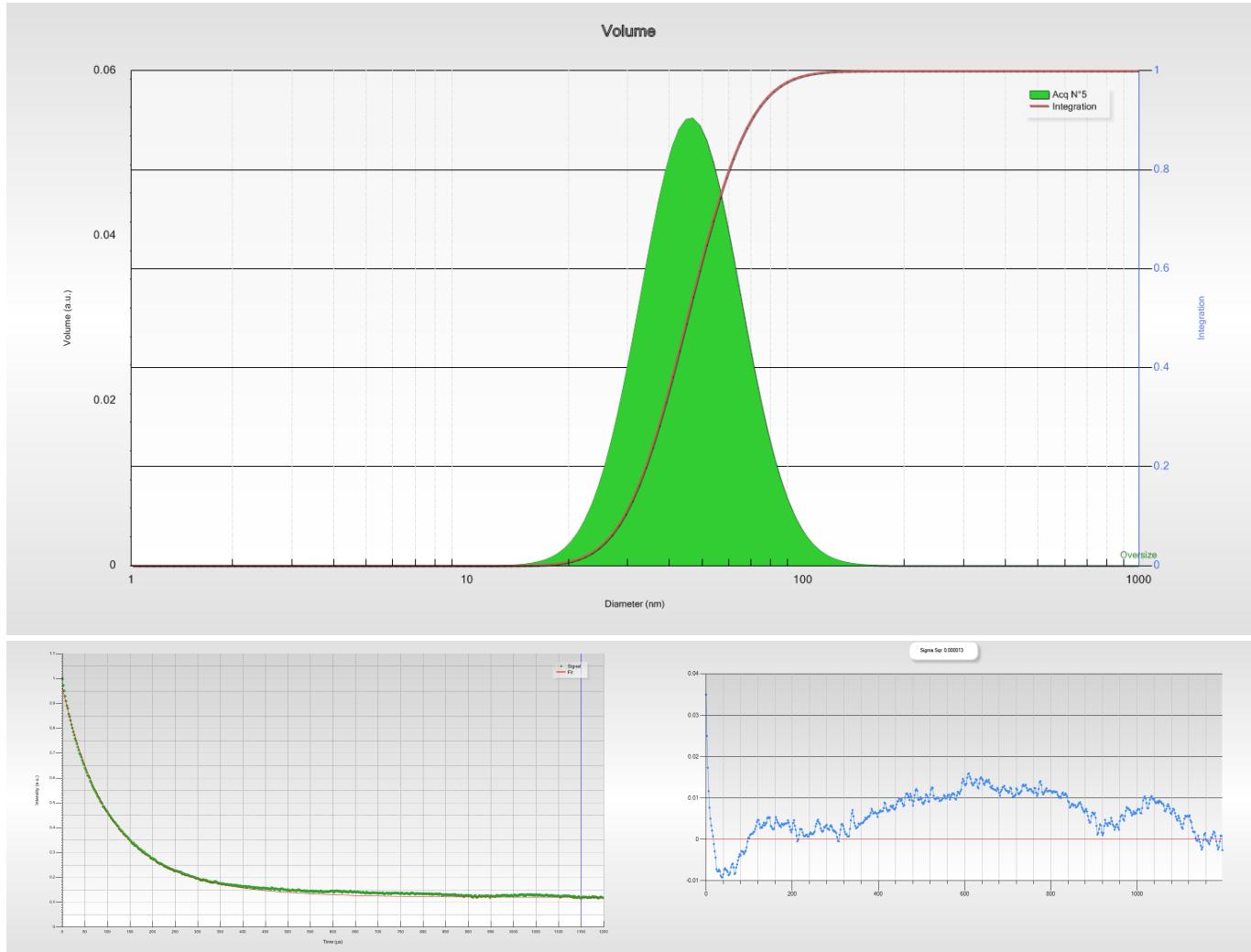
Dn 50%: 32.36 nm

Dn 90%: 51.39 nm

Std Dev: 34.55%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m²/s)
54.15	0.84	4797.29	90.75687E-013

**Distribution statistics**

D_v 10%: 29.5 nm	D_v 50%: 46.85 nm	D_v 90%: 71.02 nm
Mean Volume: 48.95 nm		
PDI : 0.4775		Std Dev: 34.55%

Detected size(s)

Z average (nm)	Intensity	Decay Rate	Diffusion Coeff. (m ² /s)
54.15	0.84	4797.29	90.75687E-013