



NovaFFF Software

NovaFFF Software Platform for FFF-MALS

- Software platform concept for integration of FFF-MALS
- System Control (FFF+MALS) - Data Acq - Data Evaluation
- Software for control of all FFF series AFFF, ThFFF, SedFFF
- Direct control of various light scattering detectors
- Integrate detectors from postnova and other companies
- Software-System communication via LAN/Ethernet
- Raw data files and data evaluation files stored differently

Software platform which allows the integration of different FFF techniques AND different types of detectors. Also other manufacturers detectors can be completely controlled or at least interfaced for automated use.

Secure investment which gives flexibility in future use of different FFF techniques and different detector systems.

1. Postnova
2. FFF History
3. Principle FFF
4. Asy Flow FFF
5. Applications
6. FFF Software
7. Summary



NovaFFF Software



NovaFFF – Run Information Window

AF2000 Control - [Run: C:\aF2000\ACGT\Calibration_12_16\BSA_5.dat]

File Run Data Tools Window ?

Run Method Data Evaluation

Run

Directory: C:\aF2000\ACGT\Calibration_12_16 Save

Name: BSA_5 Auto

Method: New Method Load

User: em

Data per sec: 0.5

Start Collection: after Injection

Manual Inject: ☒ Vial number: 0 Injection volume [ul]: 20

Solvent:

Viscosity: 0.088 g/cms Refr. Index: 1.330

Solvent: PBS pH 7.4

Sample

Sample Conc.: 2.00 mg/ml

dn/dc: 0.165 ml/mg

Extinction: 0.152

Sample: BSA

Sample description

x-Flow 5.0, 0.2 g/l NaN3
Reihenfolge Detektoren: UV LIN 002, LS PN 002,
RI SH 001

Flow Control

Tip flow rate: 0.3 ml/min Off

4 bar

Focus flow rate: 0.2 ml/min Off

4 bar

Cross flow rate: 0.1 ml/min Off

☒ Pumping ☐ Reset

SLOT flow rate: 0 ml/min Off

Purge Valve: Off

Detector flow rate: 0.4 ml/min

Pressure: 5.0

Emergency Off

Run OK

Run saved as C:\aF2000\ACGT\Calibration_12_16\Manual.dat System Mode: Manual

Start Af2000control 10:40 AM

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NovaFFF – Method Information Window

AF2000 Control - [Method: From Run BSA_5]

File Run Data Tools Window ?

Run Method Data Evaluation

General Settings:

Method Pool: C:\Af2000\MethodenPool Running ☐

Method Name: New Method ☐ Auto Name Save Clipboard

Detector flow rate: 1.00 SLDT flow rate: 0 Spacer: 250 Run time: 68 Solvent: 257.5

1. Focus Step:

	Injection flow	Injection Time	Cross flow	Transition Time
1	0.20	2	5	1

2. Elution Step:

	Time (min)	Cross flow (mL/min)	Type	Exponent
1	30.0	5.00	constant	0.00
2	5.0	5.00	linear	1.00
3	30.0	0.00	constant	0.00
4	0.0	0.00		0.00
5	0.0	0.00		0.00

Run time: 65 min

3. Rinse Step:

☐ Rinse Step ON

Tip Pump	Focus Pump	Slot Pump	Time
1.00	0.00	0.00	0.0

☒ Purge Valve open

Flow Control:

Tip flow rate: 0.3 mL/min 4 bar Off

Focus flow rate: 0.2 mL/min 4 bar Off

Cross flow rate: 0.1 mL/min Off

☒ Pumping ☐ Reset

SLDT flow rate: 0 mL/min Off

Purge Valve: Off

Detector flow rate: 0.4 mL/min

Pressure: 5.0 Emergency Off

Run OK

Run saved as C:\Af2000\ACGT\Calibration_12_16\Manual.dat System Mode: Manual

Start Af2000control NovaFFF.rtf - WordPad 10:40 AM

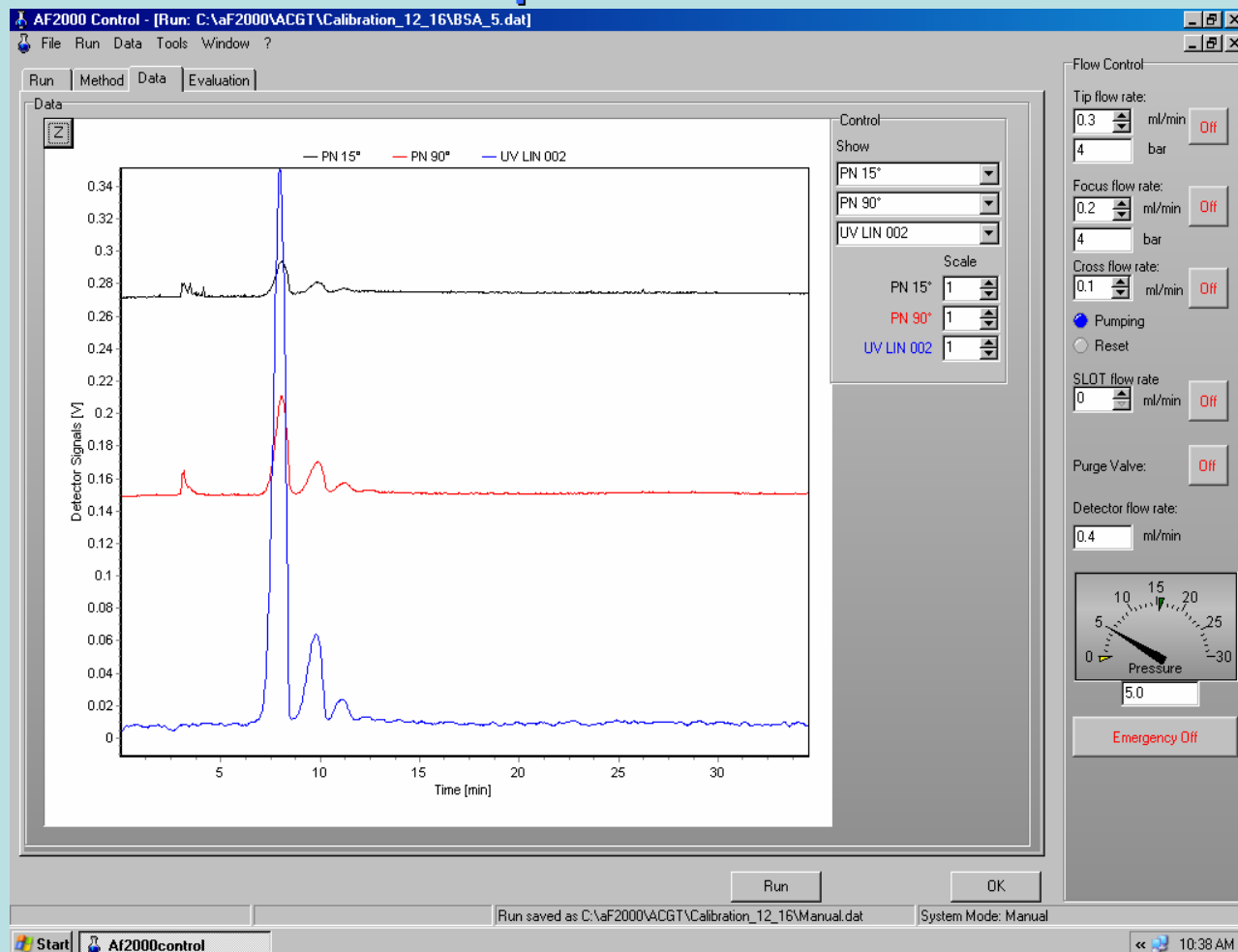
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NovaFFF Software



NovaFFF – Data Acquisition Window



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Example shown: BSA Monomer/Dimer

March 2007

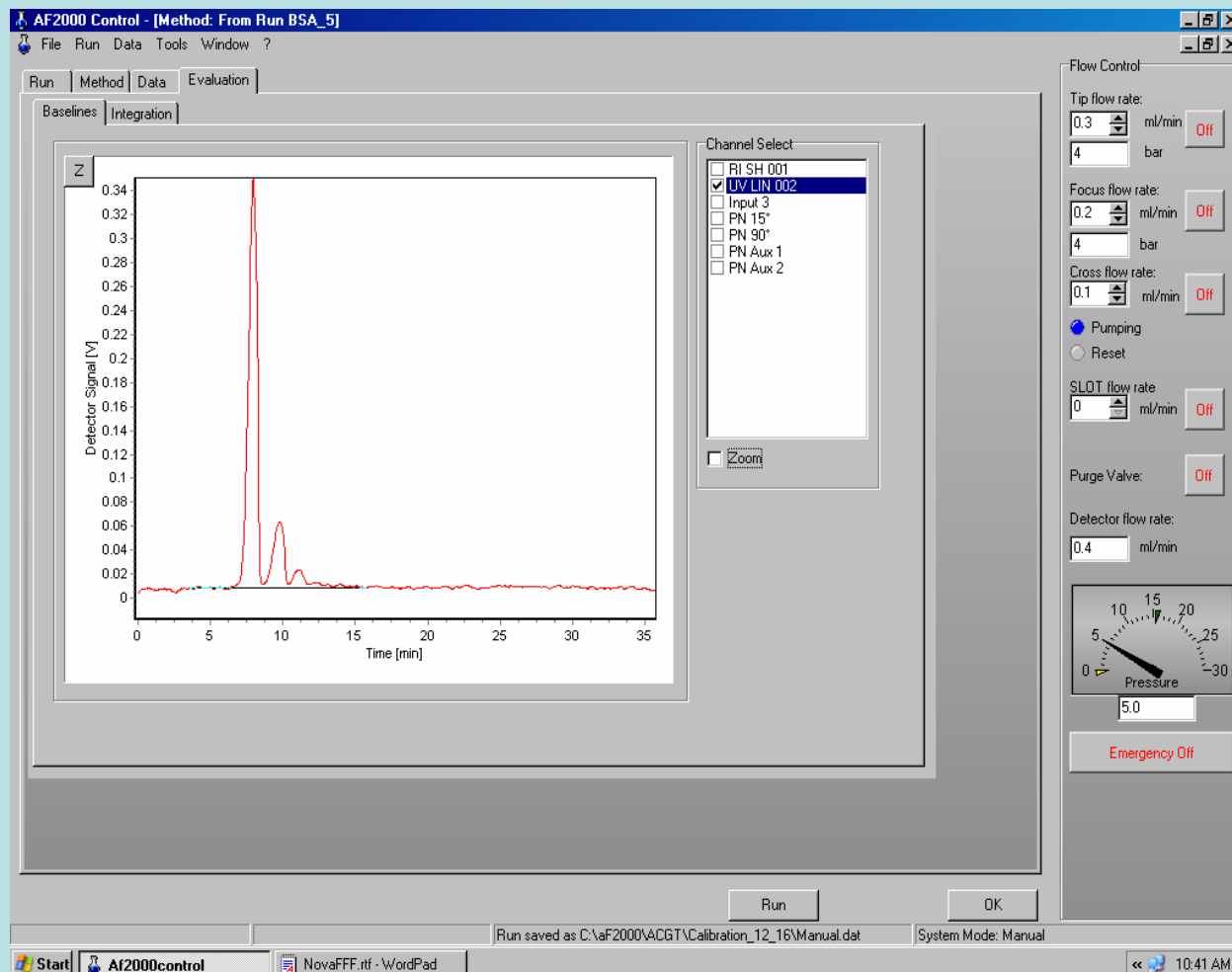
www.postnova.com



NovaFFF Software



NovaFFF – Evaluation / Baseline Window



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Example shown: BSA Monomer / Dimer

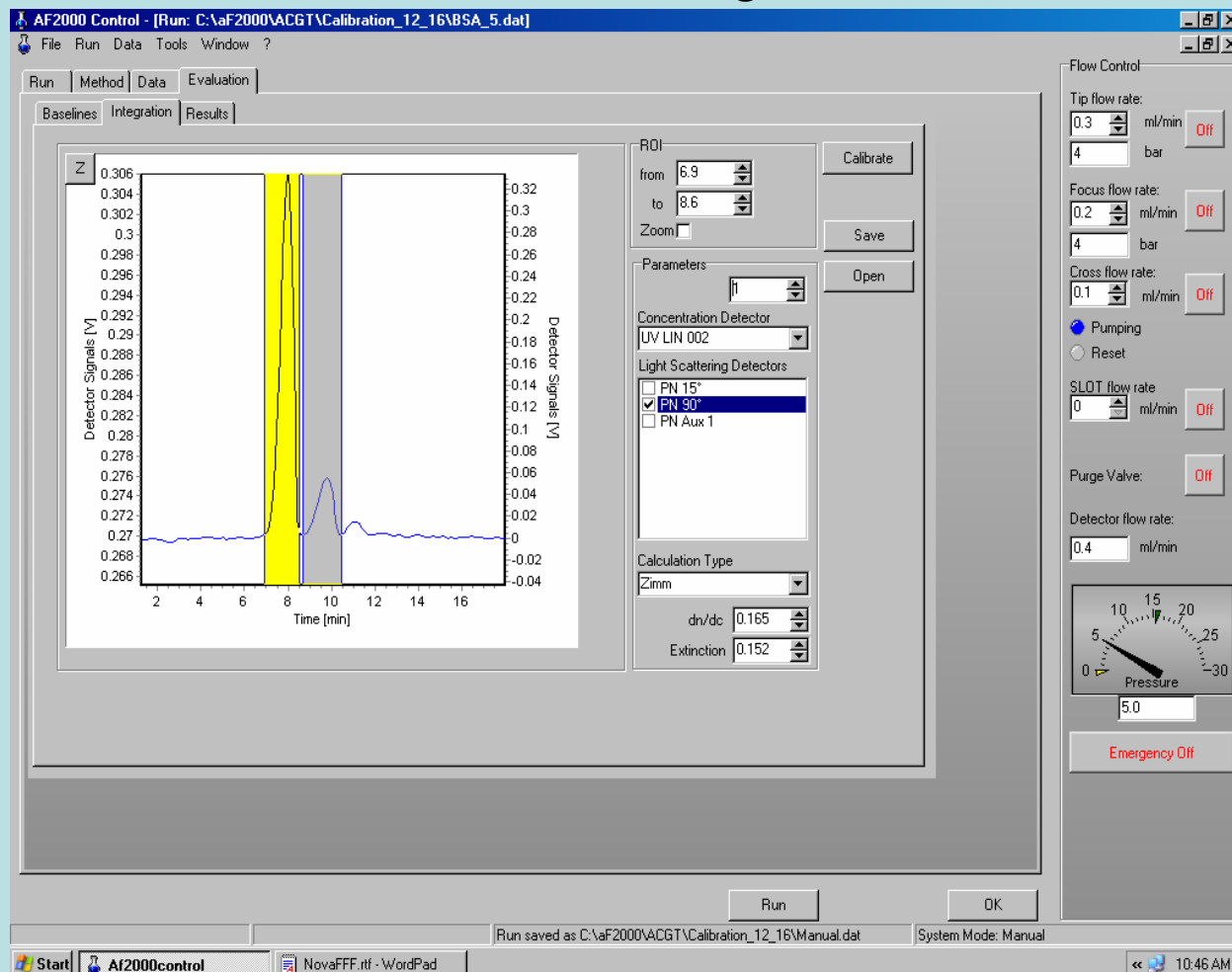
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NovaFFF Software

NovaFFF – Evaluation / Integration Window



1. Postnova
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Example shown: BSA Monomer / Dimer

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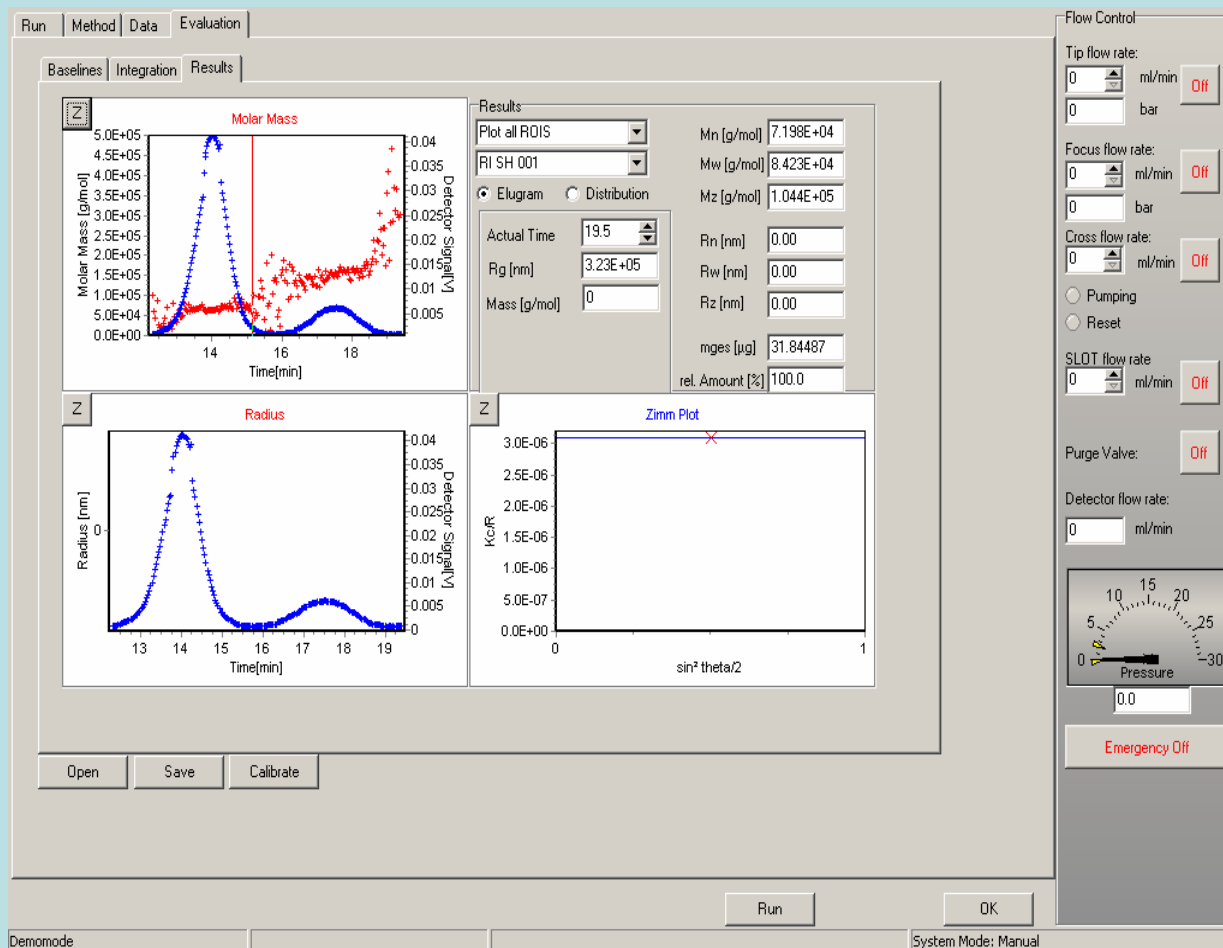
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NovaFFF Software



NovaFFF – MW / Rg Results Window



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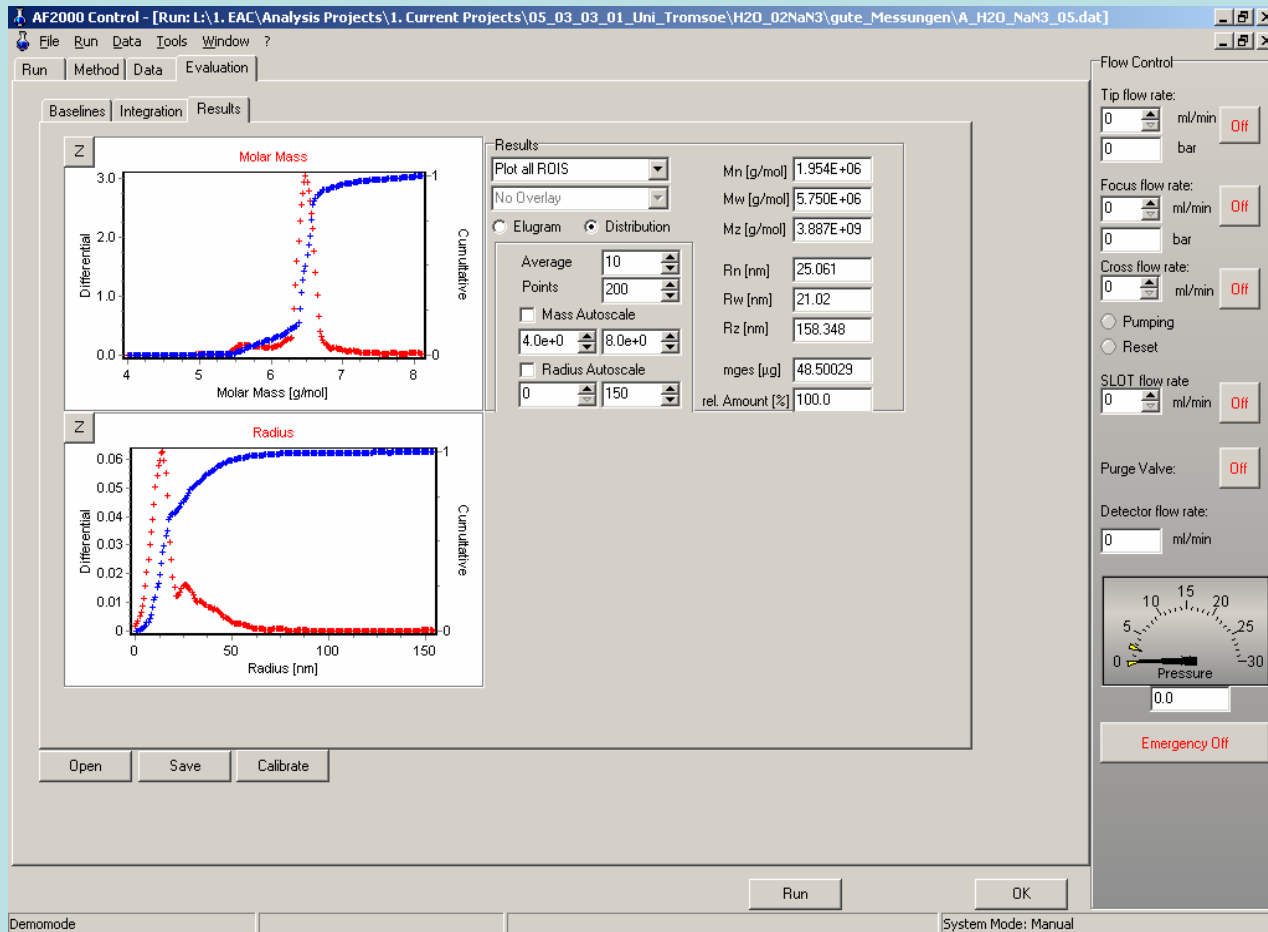
Example shown: BSA Monomer / Dimer



NovaFFF Software



NovaFFF – Mw / Size Distribution Window



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Example shown: Liposome Sample