

Structure Factor Check

3BCC

Title: STIGMATELLIN AND ANTIMYCIN BOUND CYTOCHROME BC1 COMPLEX FROM
Date: 23-MAR-98
PDB code: 3BCC

Crystal

Cell parameters:

a: 173.18 A b: 179.73 A c: 238.22 A
 α : 90.00 β : 90.00 γ : 90.00

Space group: P 21 21 21

Number of NCS-operators: 2
NC-symmetry only for information

Structure Factors

Input

Nominal resolution range: 86.1 – 3.20 A
Reflections in file: 111780
Unique reflections above 0: 95003
above 1 σ : 77365
above 3 σ : 48592
Reflections > 0: 16777

SF CHECK

Nominal resolution range: 86.1 – 3.70 A
\\05max. from input data, min. from author\\05
Used reflections: 67977
Reflections out of resolution: 27026
Completeness: 85.0 %
R_stand(F) = $\langle \sigma(F) \rangle / \langle F \rangle$: 0.114
Anisotropic distribution of Structure Factors
ratio of eigen values: 1.0000 0.5733 0.6454
B_overall (by Patterson): 70.A²
Optical resolution: 2.65 A
Expected opt. resol. for complete data set: 2.65 A
Estimated minimal error: 0.335 A

Model

15645 atoms
Number of chains: 16
Volume not occupied by model: 63.6 %
 (for atomic model): 73.0 A²
 $\sigma(B)$: 22.64 A²
Matthews coefficient: 8.46
Corresponding solvent % : 85.35

Model vs. Structure Factors

R-factor for all reflections: 0.365
Correlation factor: 0.695
R-factor: 0.347
for $F > 2.0 \sigma$
nom. resolution range: 12.00 – 3.70A
reflections used: 58453
<u> (error in coords by Luzzati plot): 0.865 A
Estimated maximal error: 0.621 A
DPI: 0.440 A

Scaling

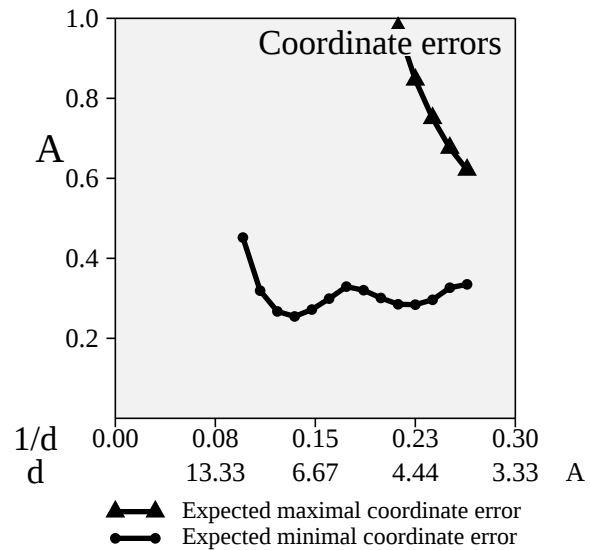
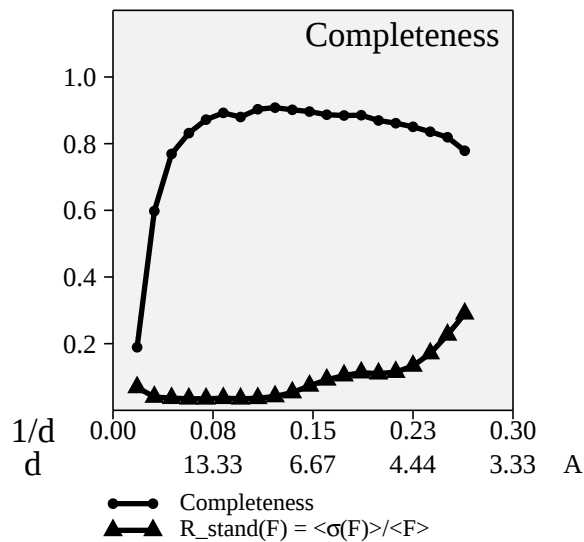
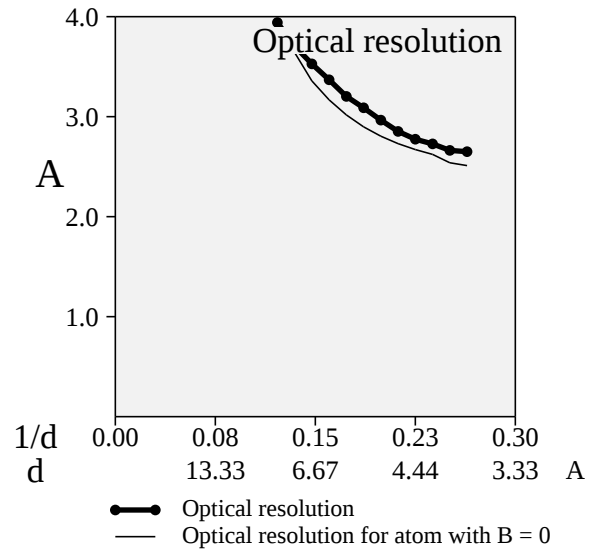
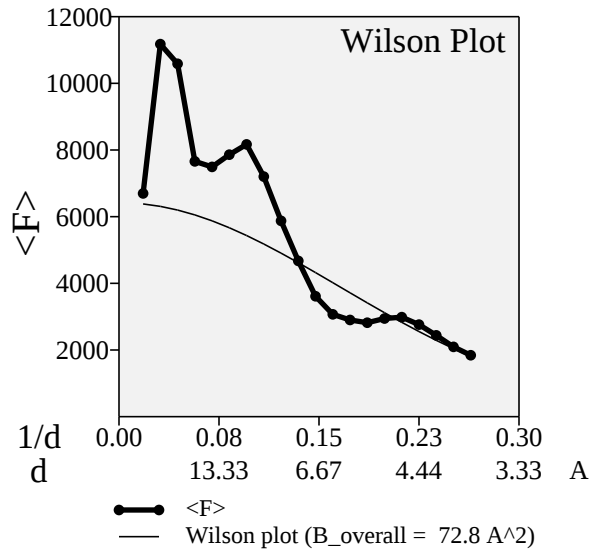
Scale: 1.571
Bdiff: 1.22
Anisothermal Scaling (Beta):
19.6977 6.8935 8.5683 0.0000 0.0000 0.0000
Solvent correction – Ks,Bs: 0.802 251.140

Refinement

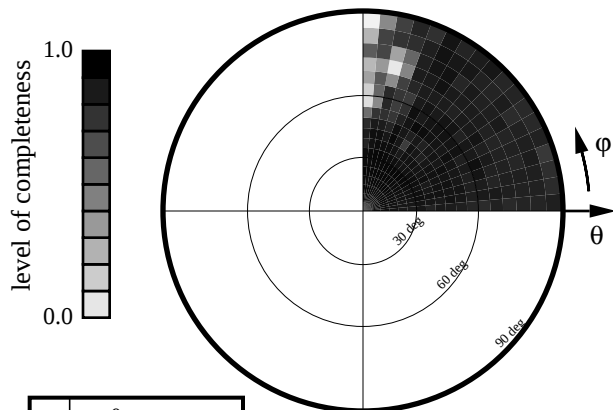
Program: CNS 0.1
Nominal resolution range: 12.0 – 3.70 A
Reported R-factor: 0.289
Number of reflections used: 71026
Reported Rfree: 0.32
Sigma cut-off (F): 2.00

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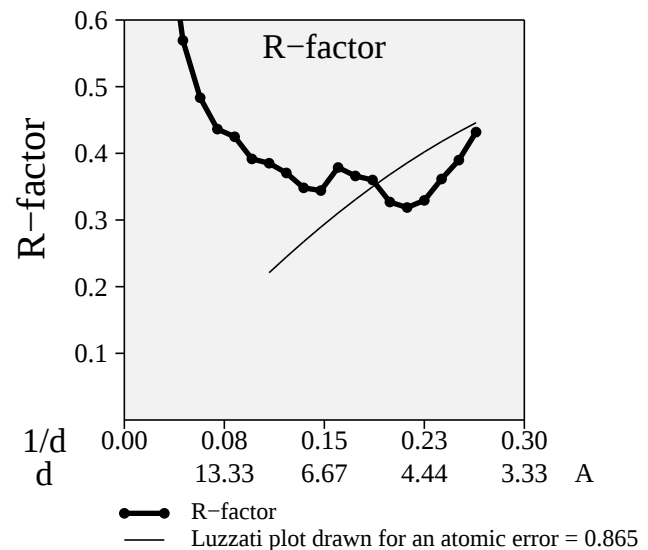


Stereographic projection of the averaged radial completeness



	θ	ϕ
h	90.00	0.00
k	90.00	90.00
l	0.00	0.00

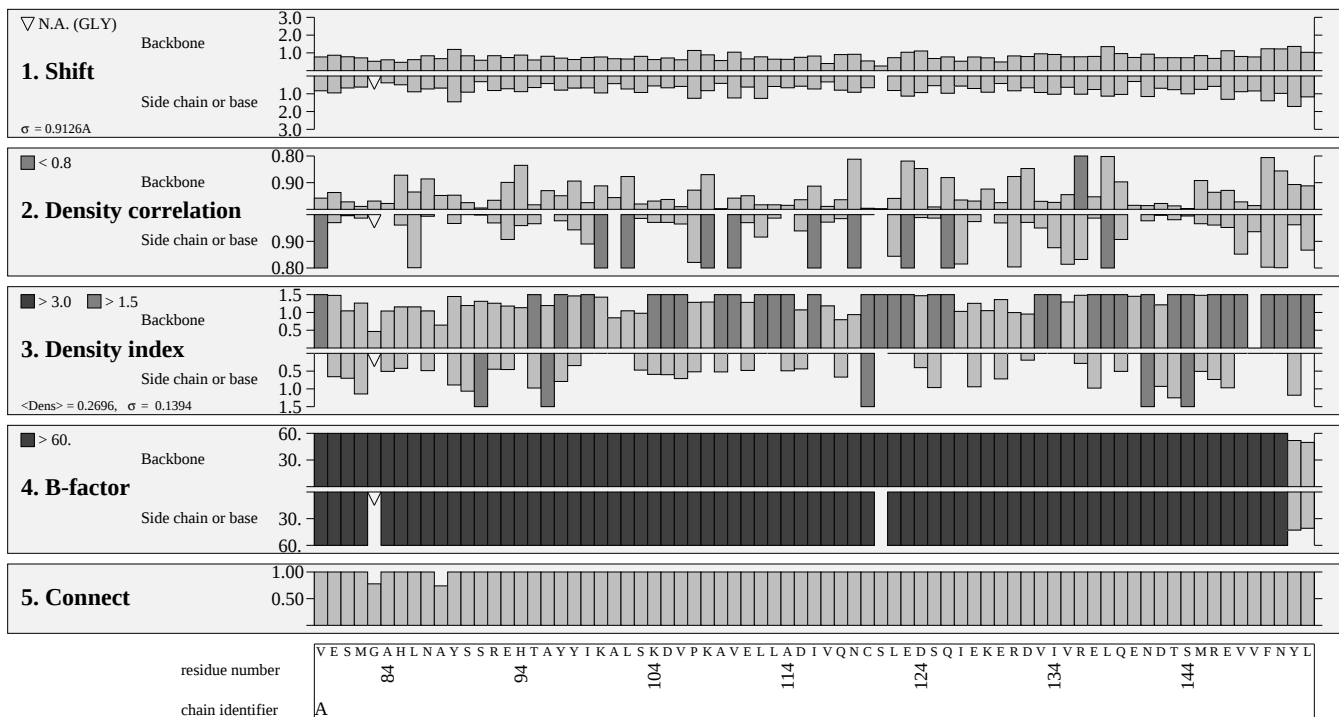
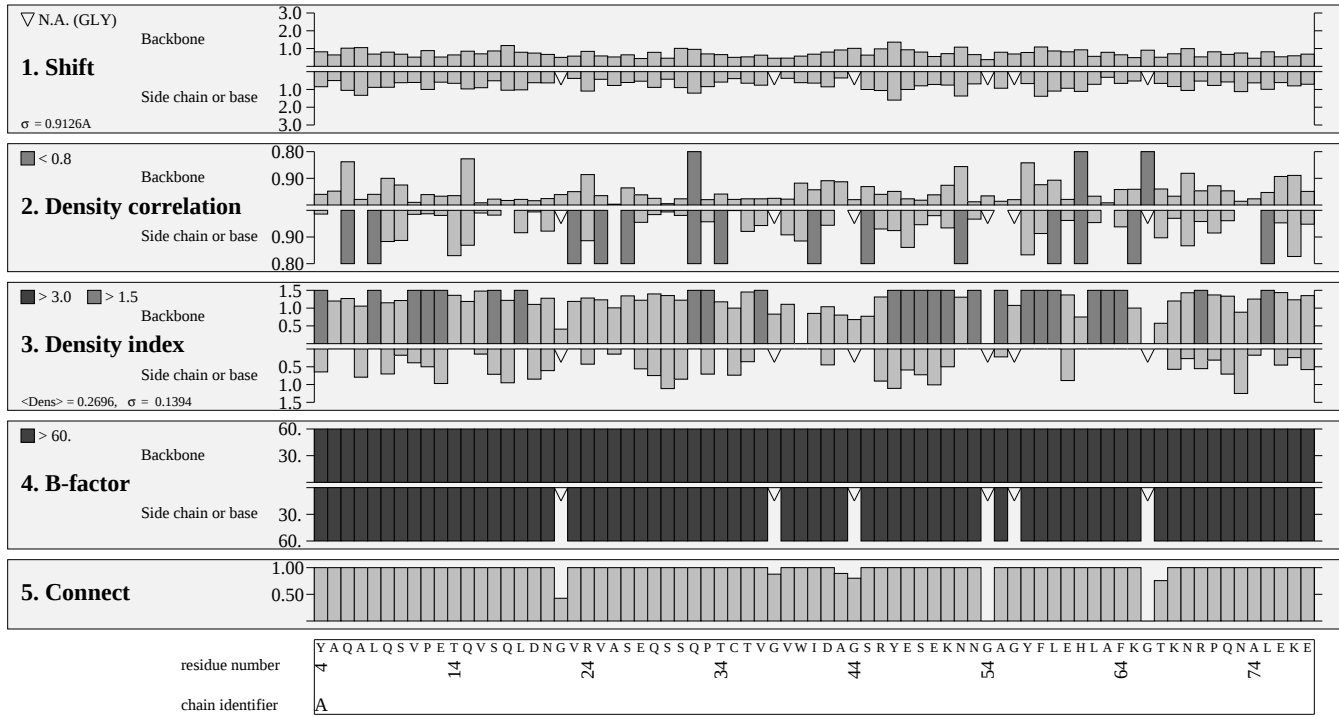
polar coordinates of the crystallographical axes



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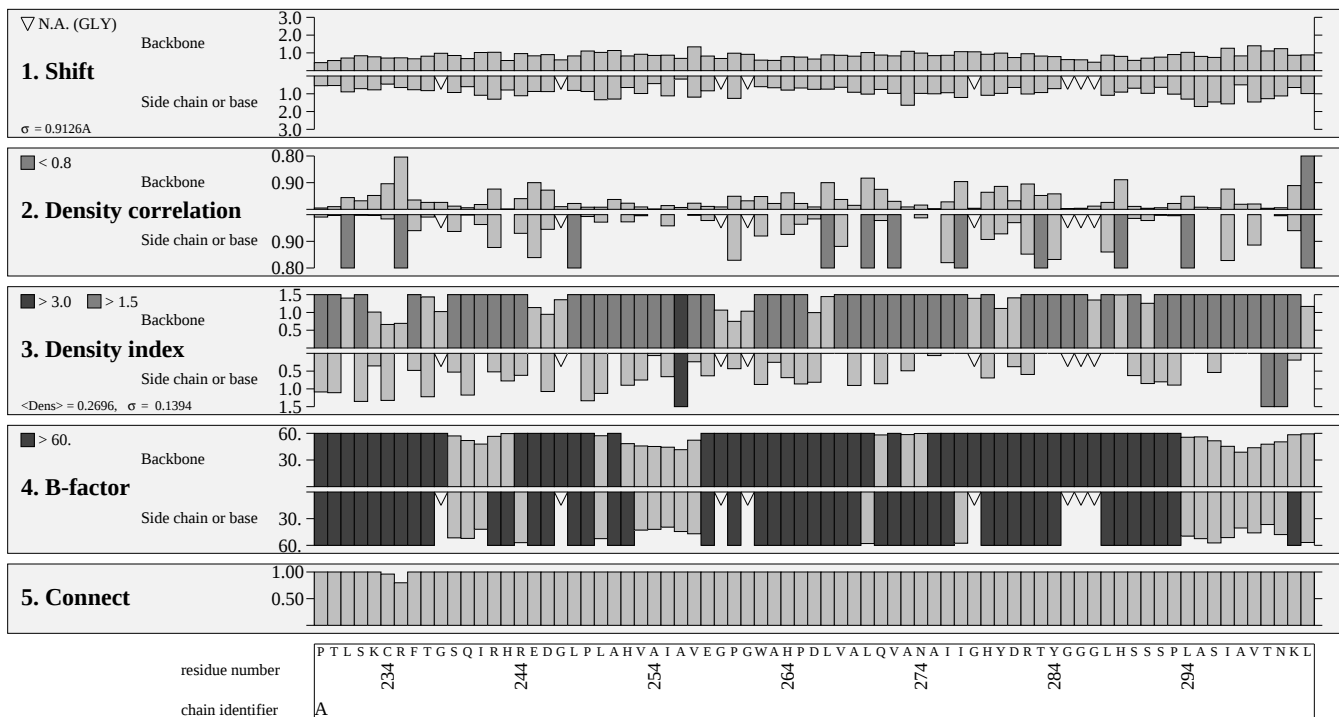
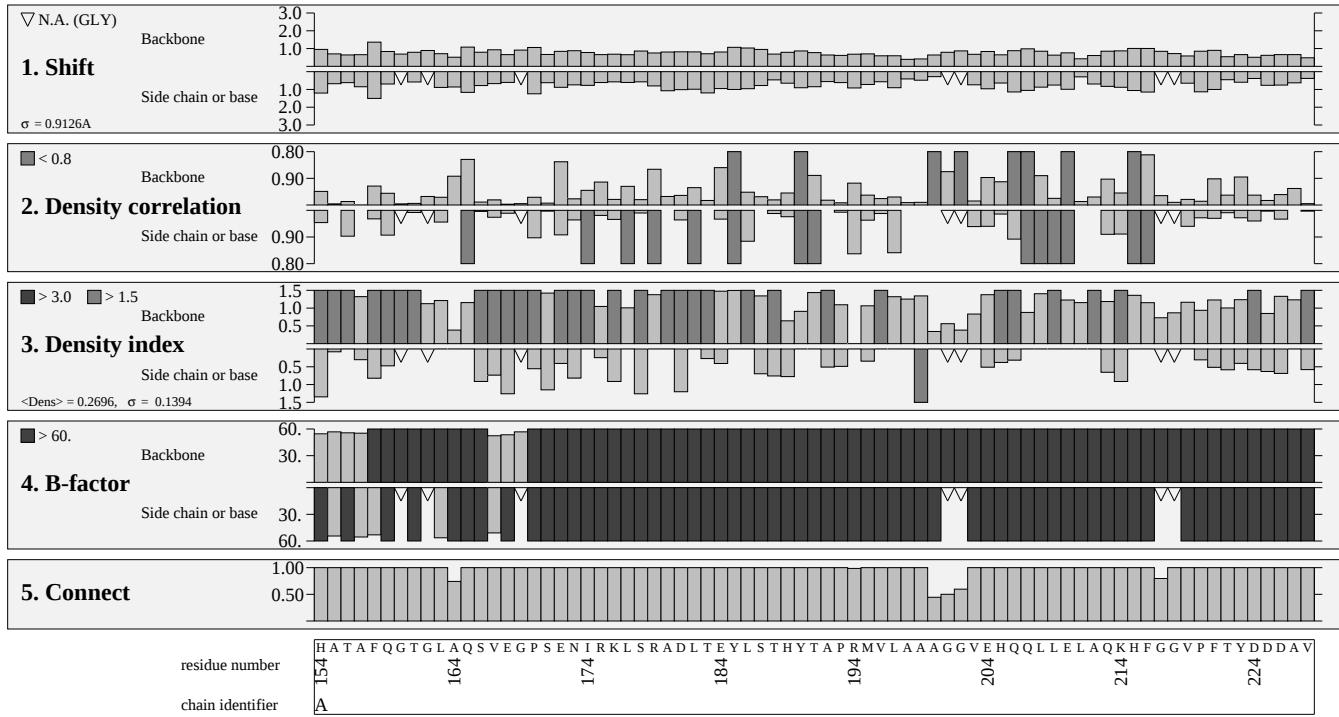
Local estimation



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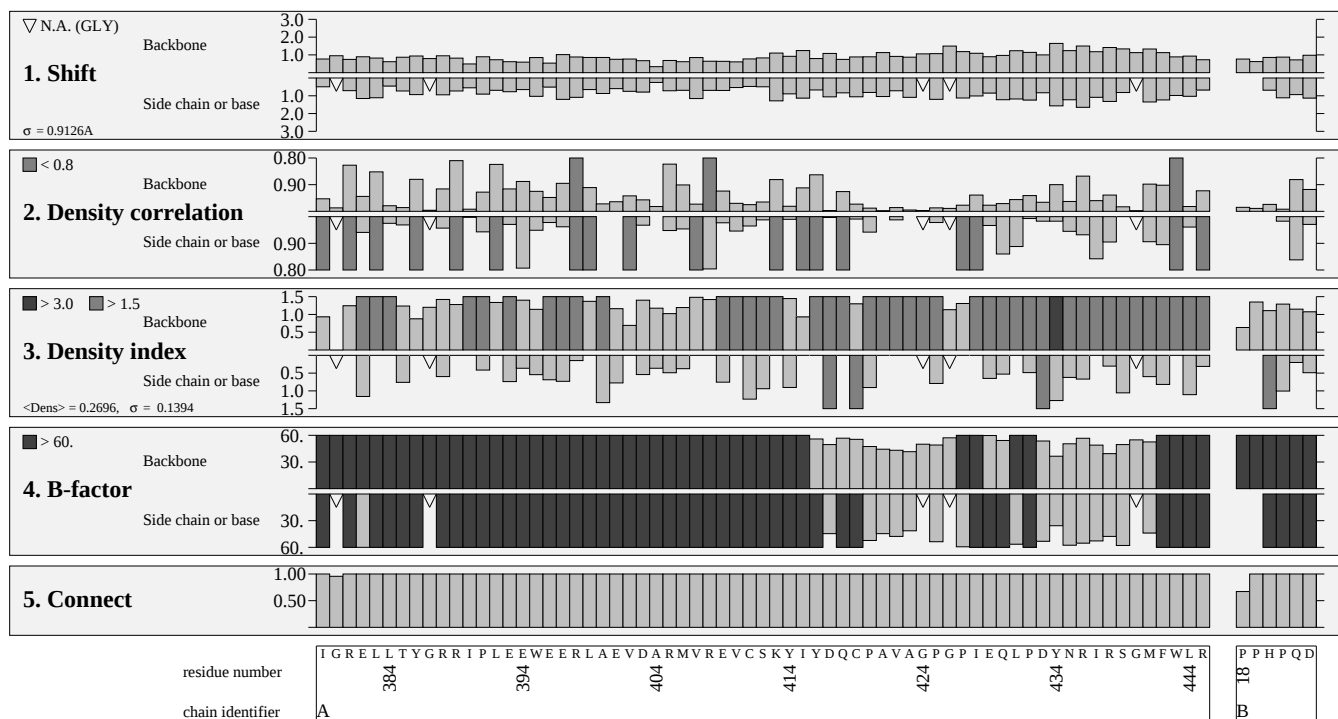
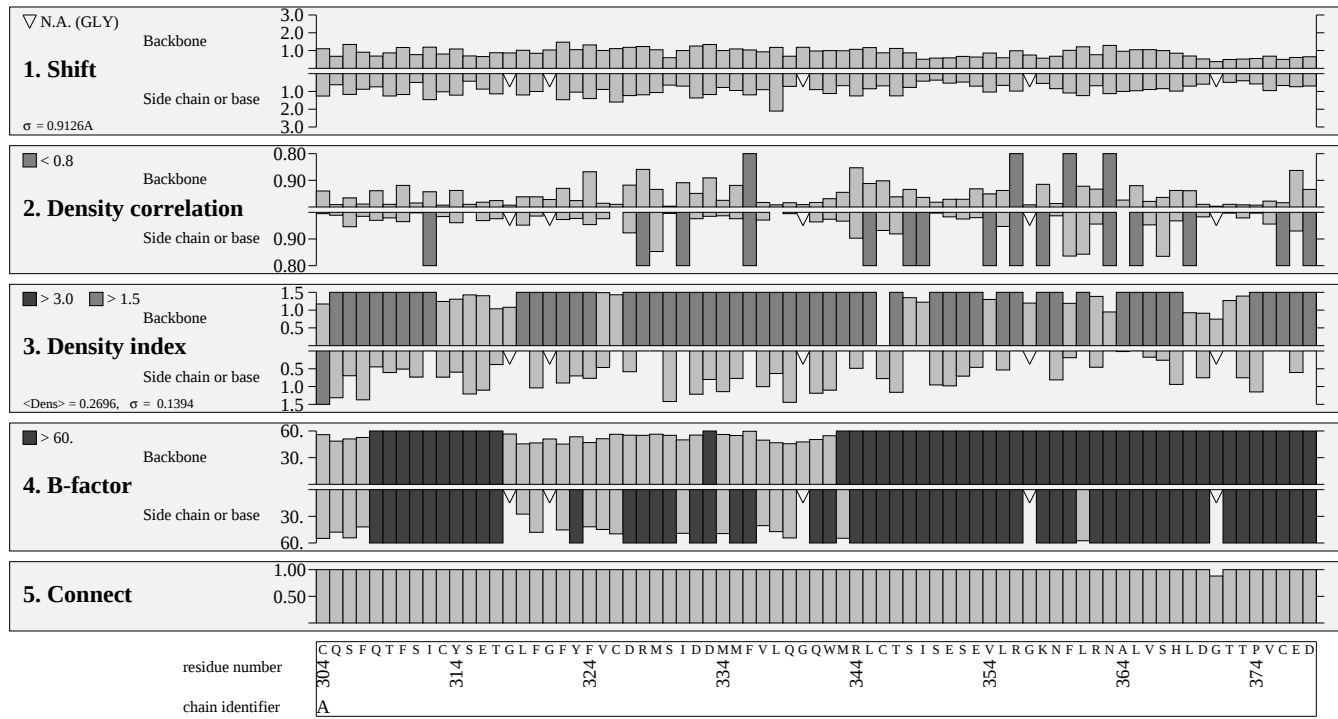
Local estimation (2)



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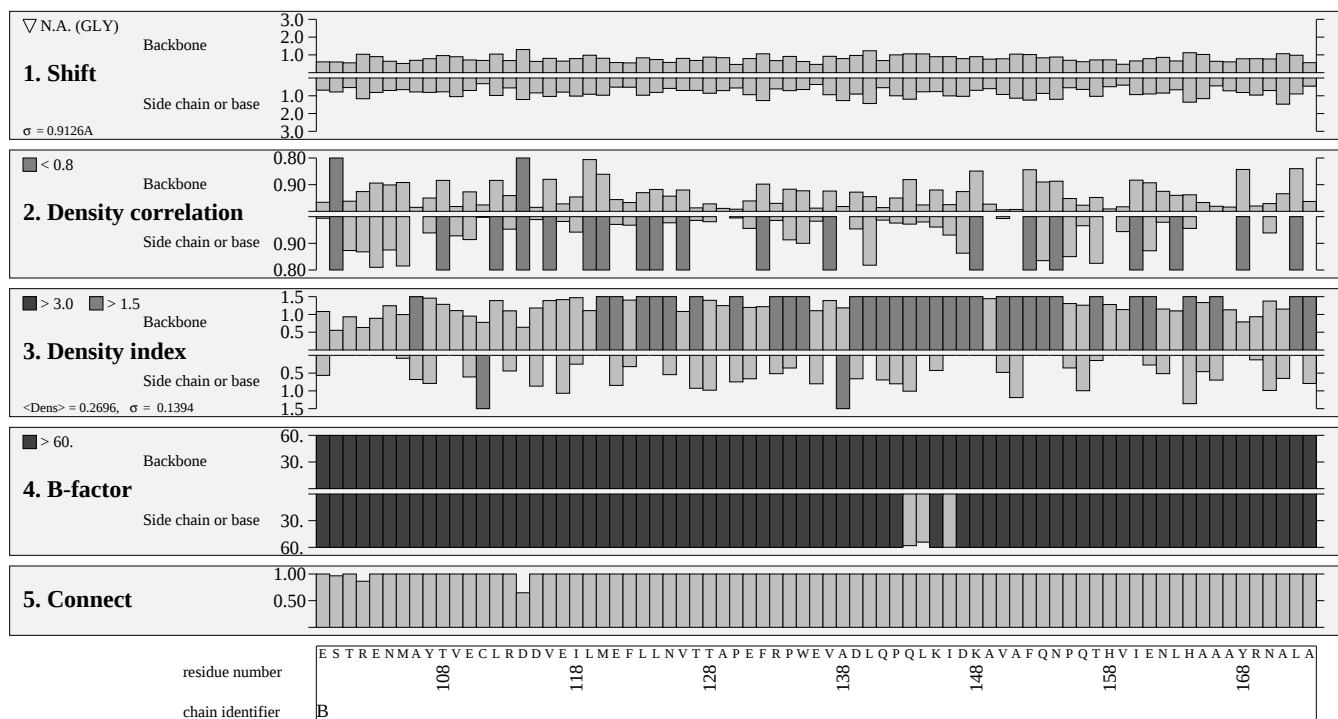
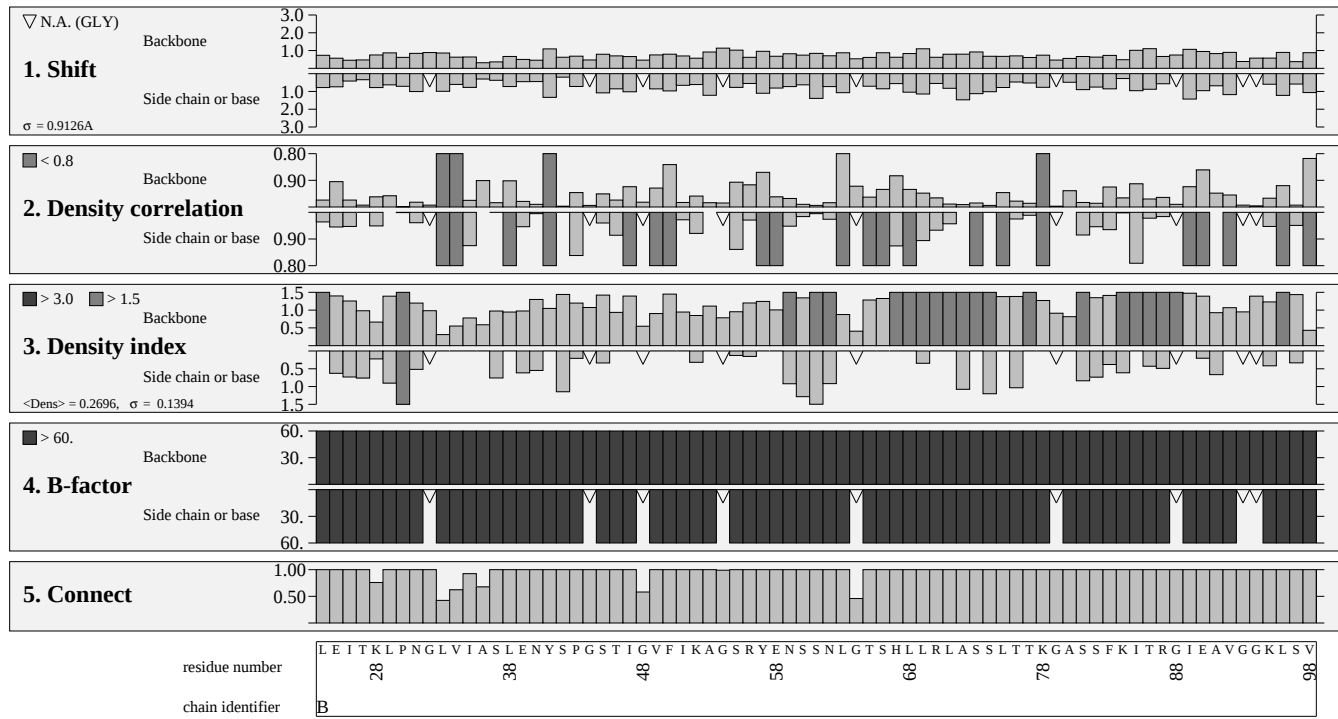
Local estimation (3)



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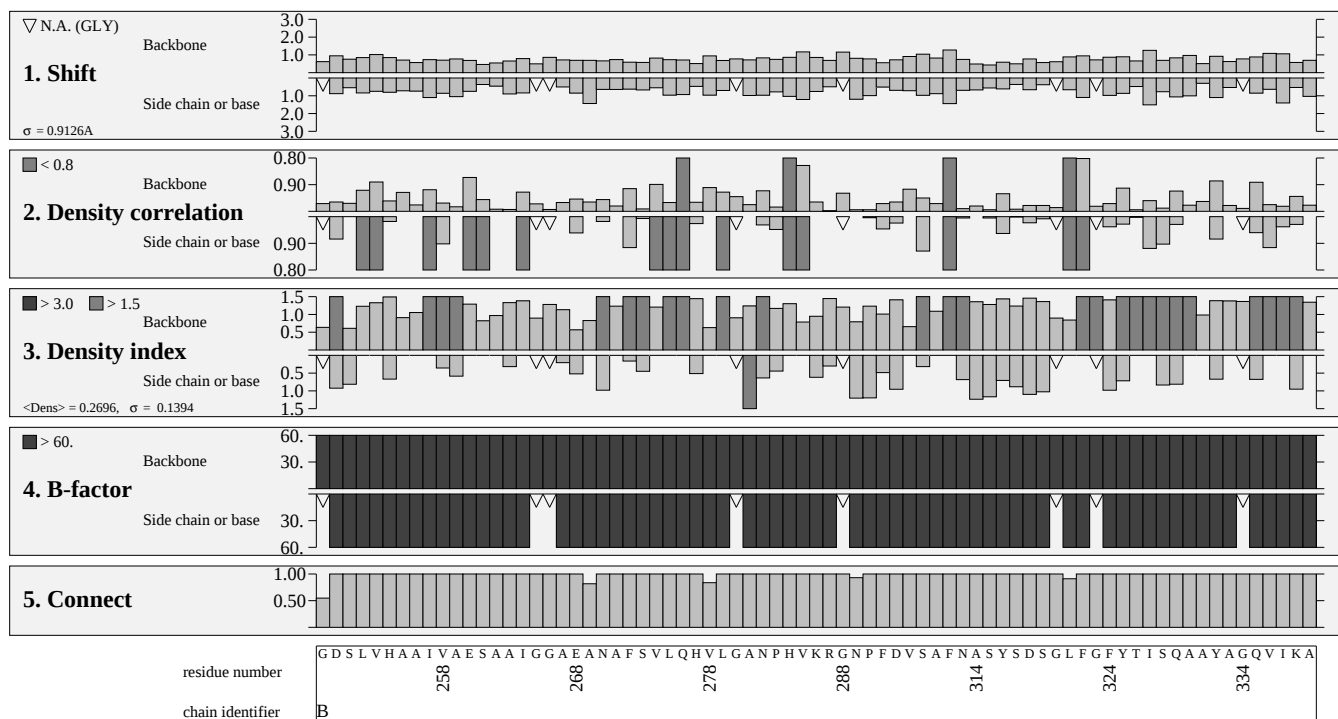
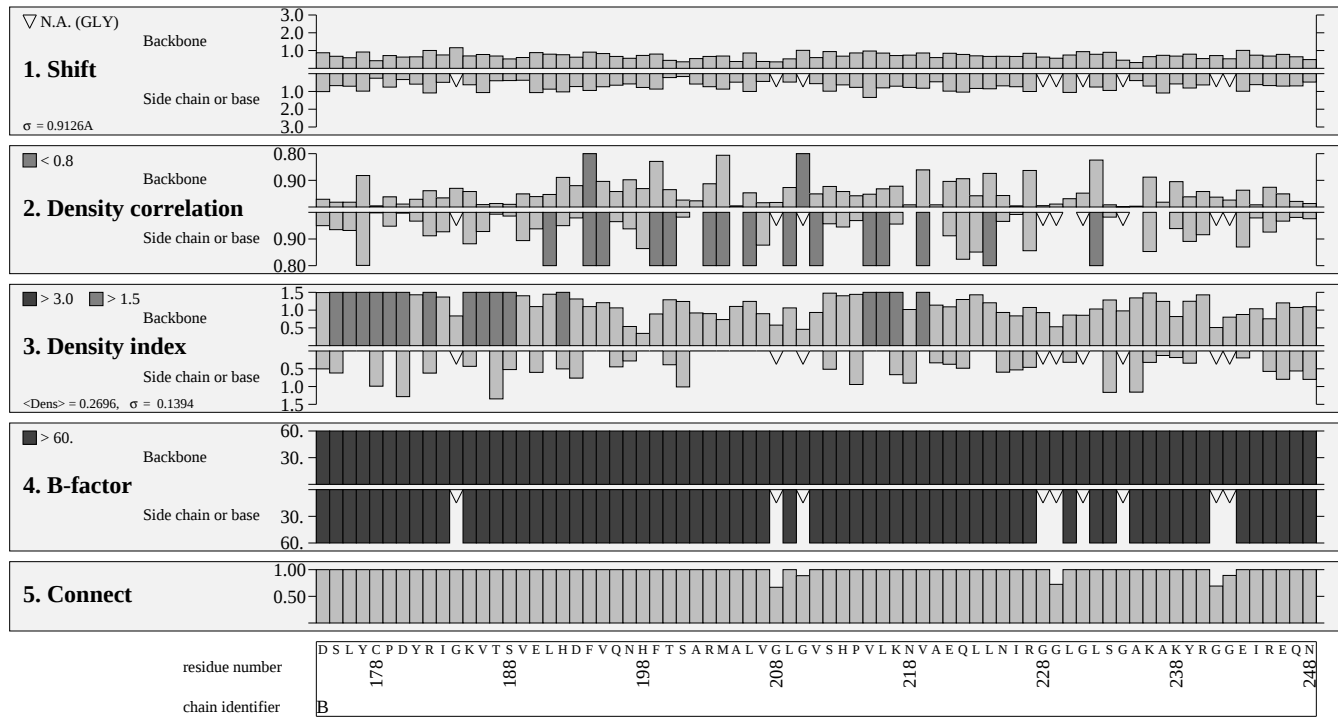
Local estimation (4)



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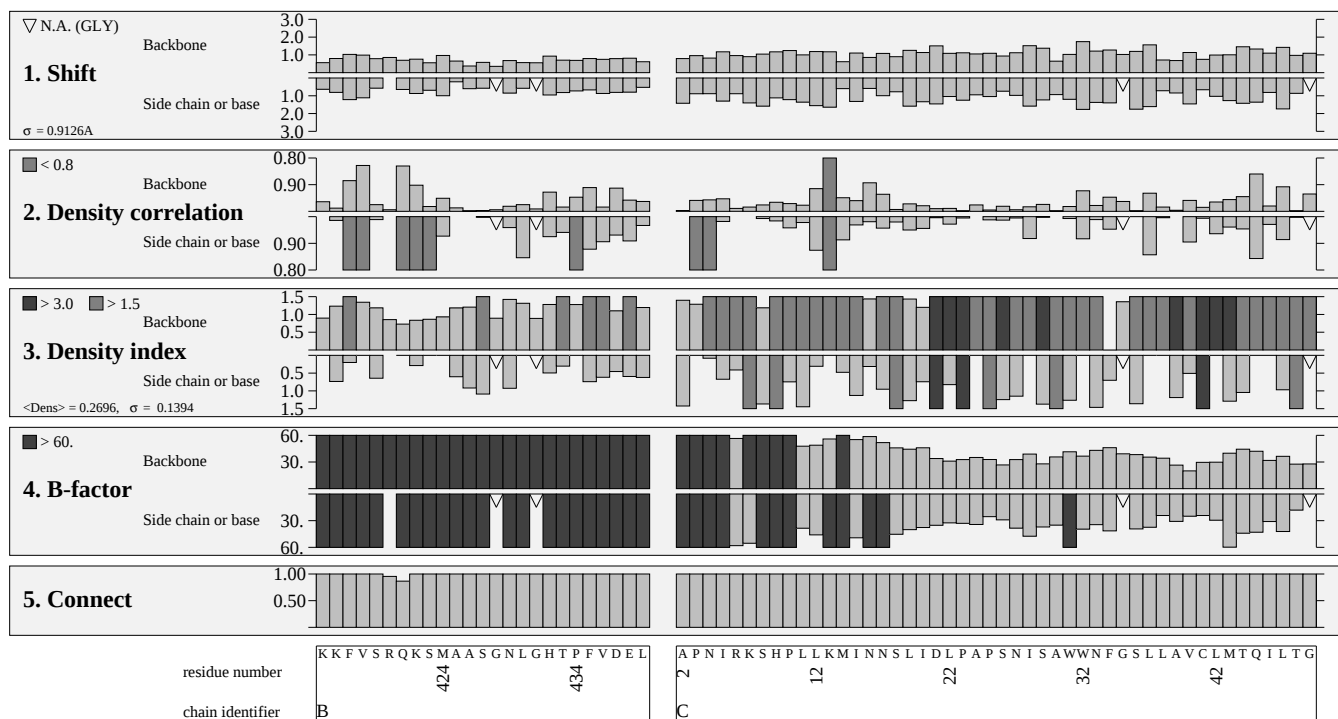
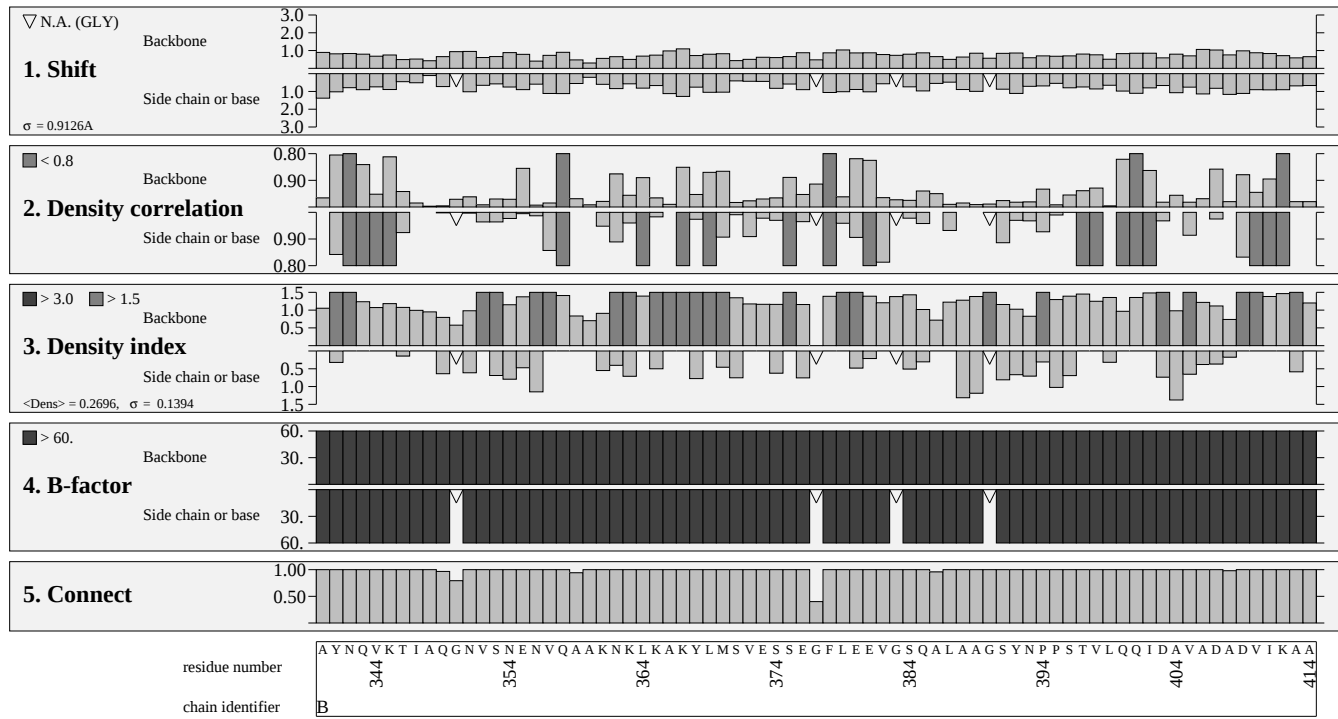
Local estimation (5)



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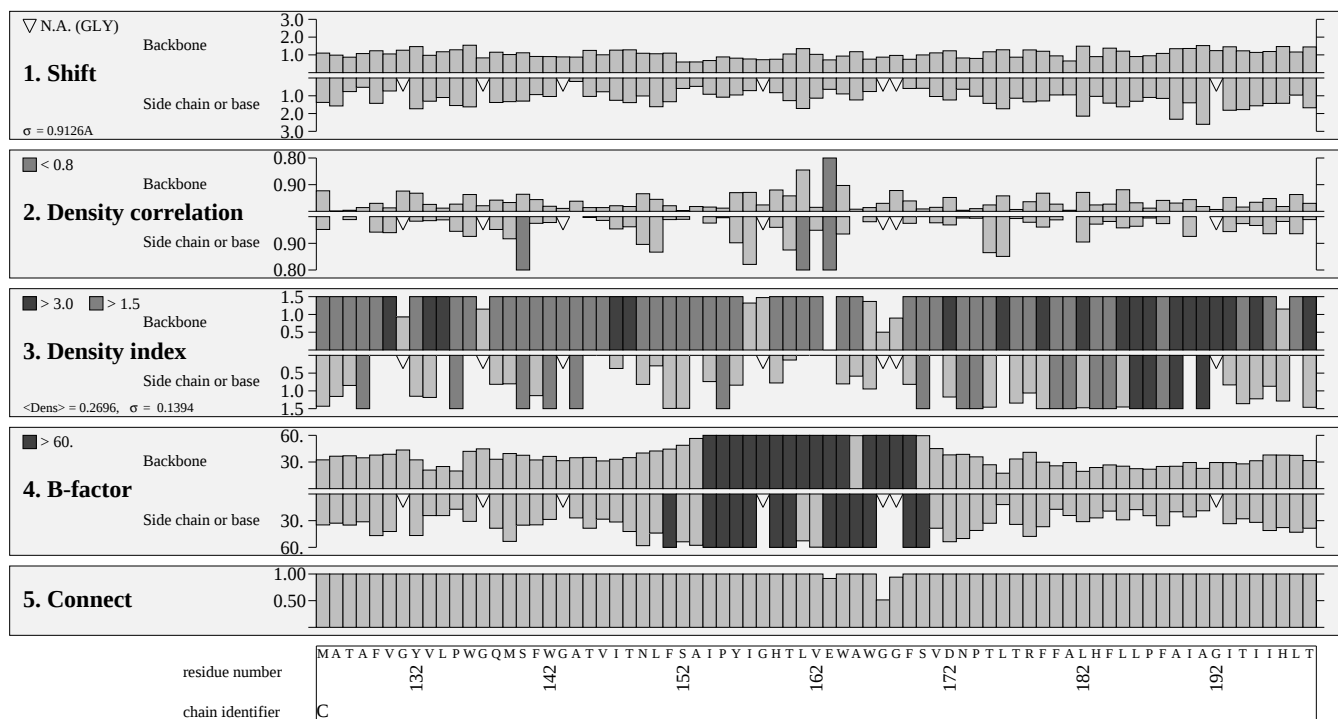
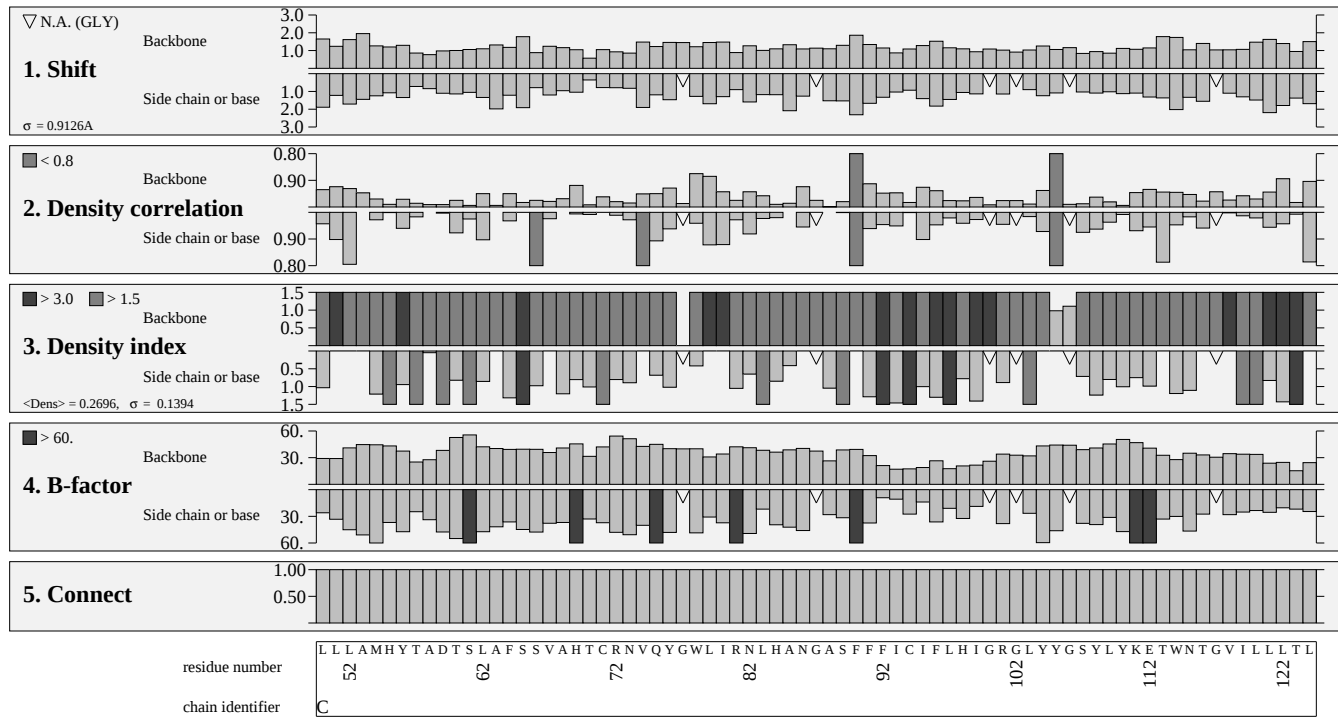
Local estimation (6)



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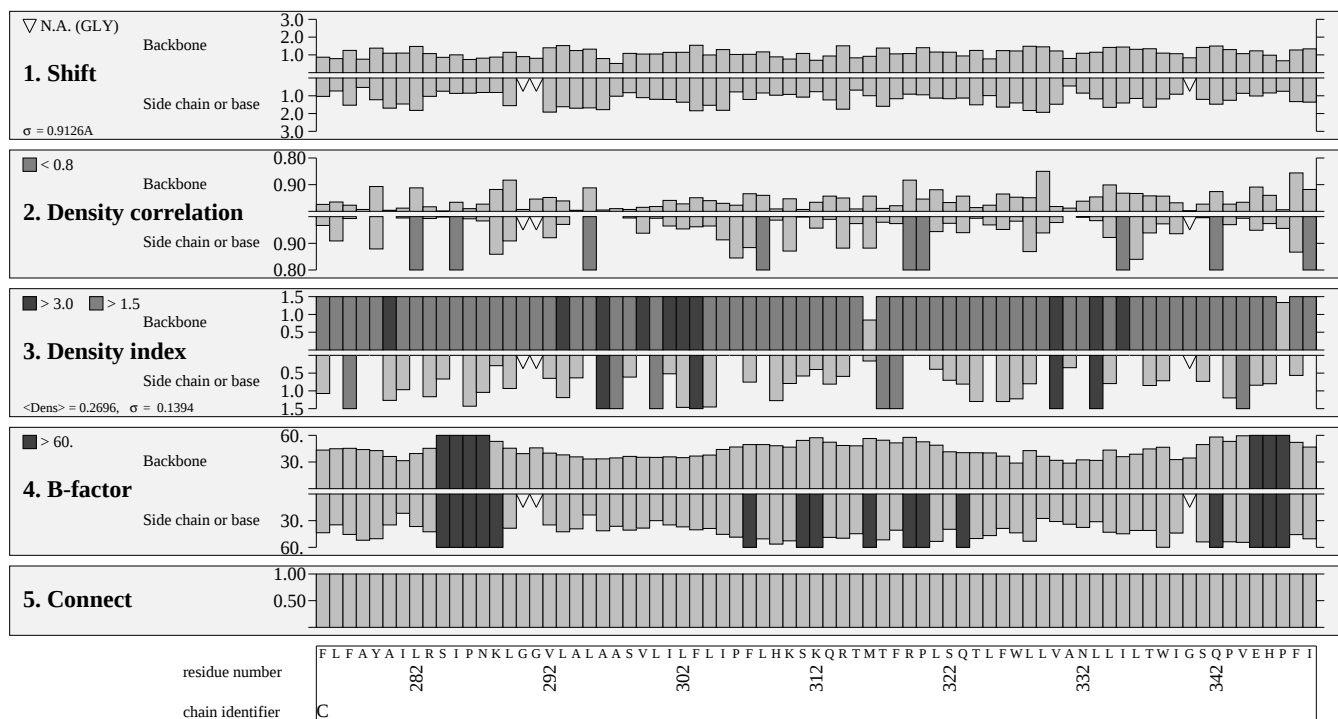
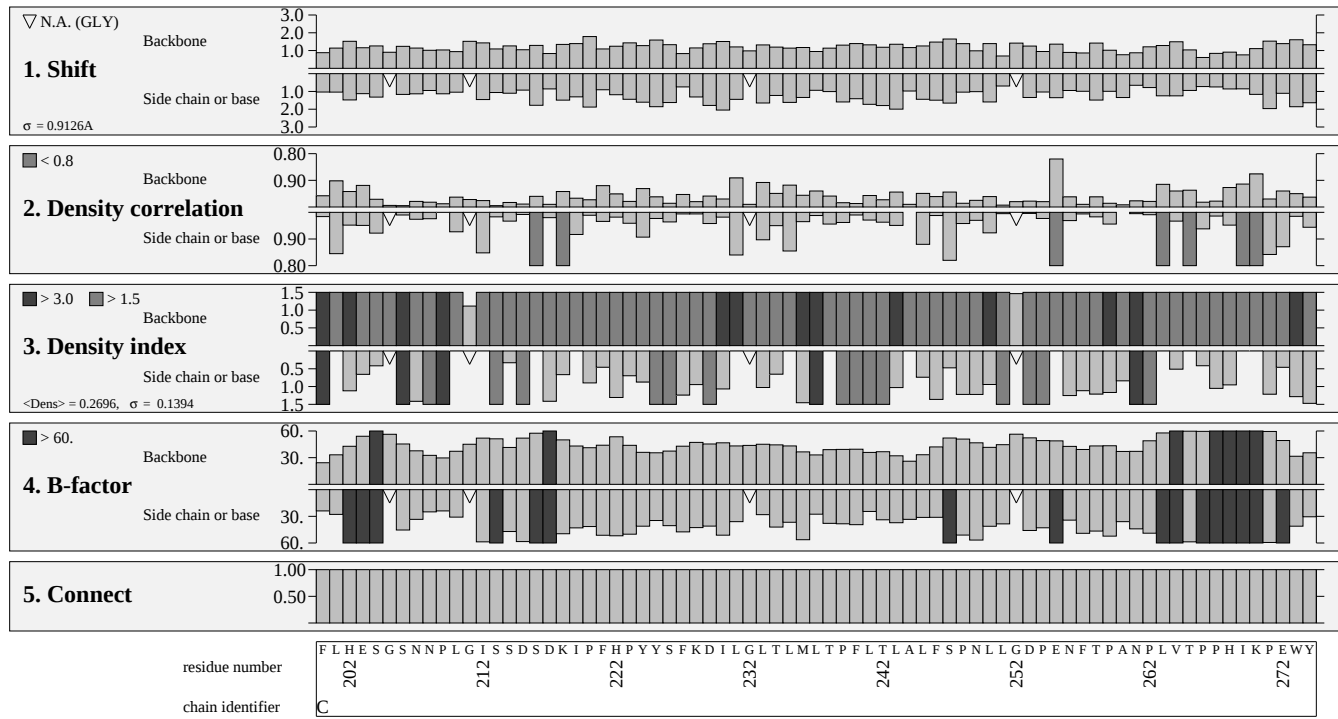
Local estimation (7)



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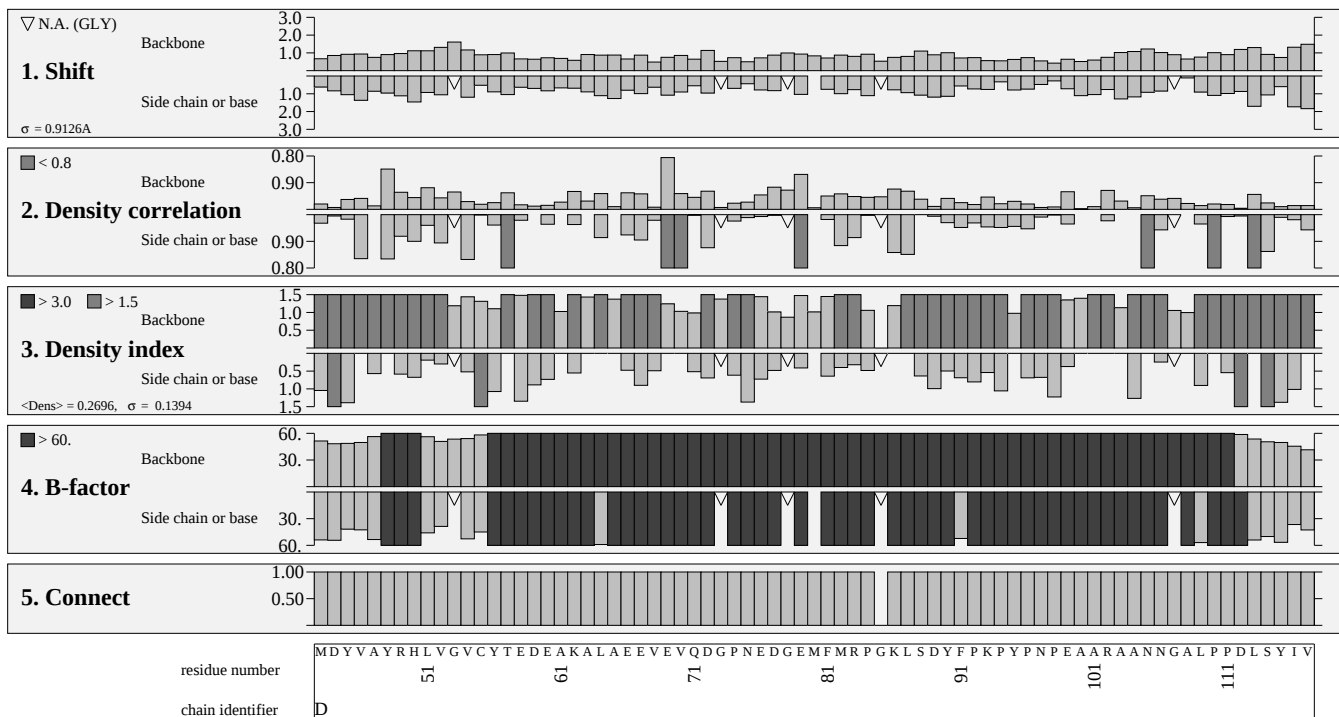
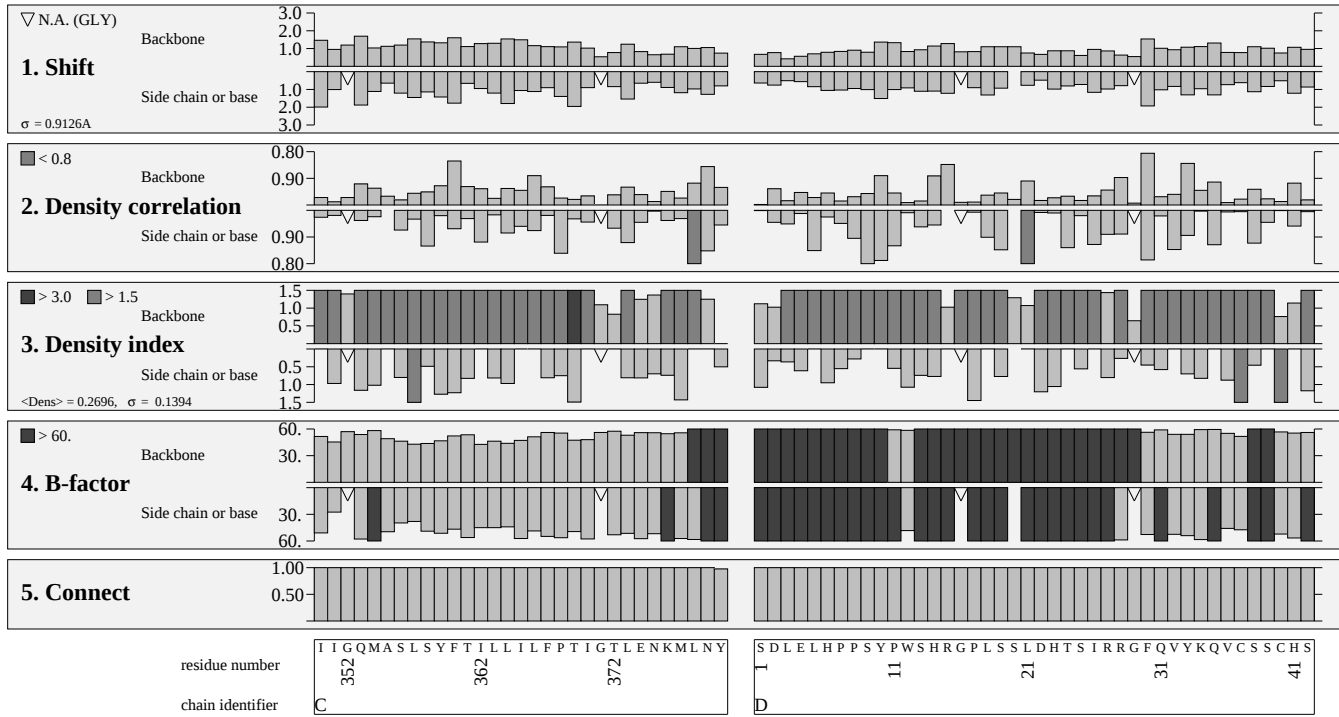
Local estimation (8)



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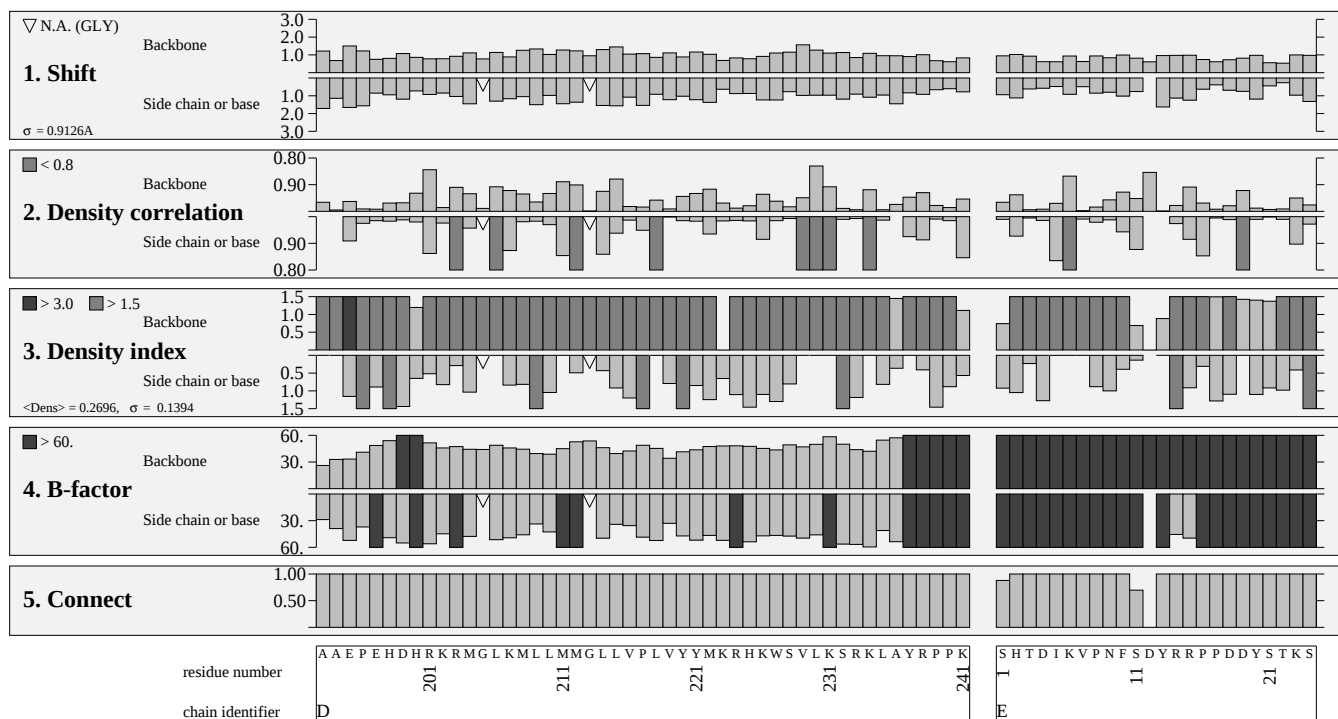
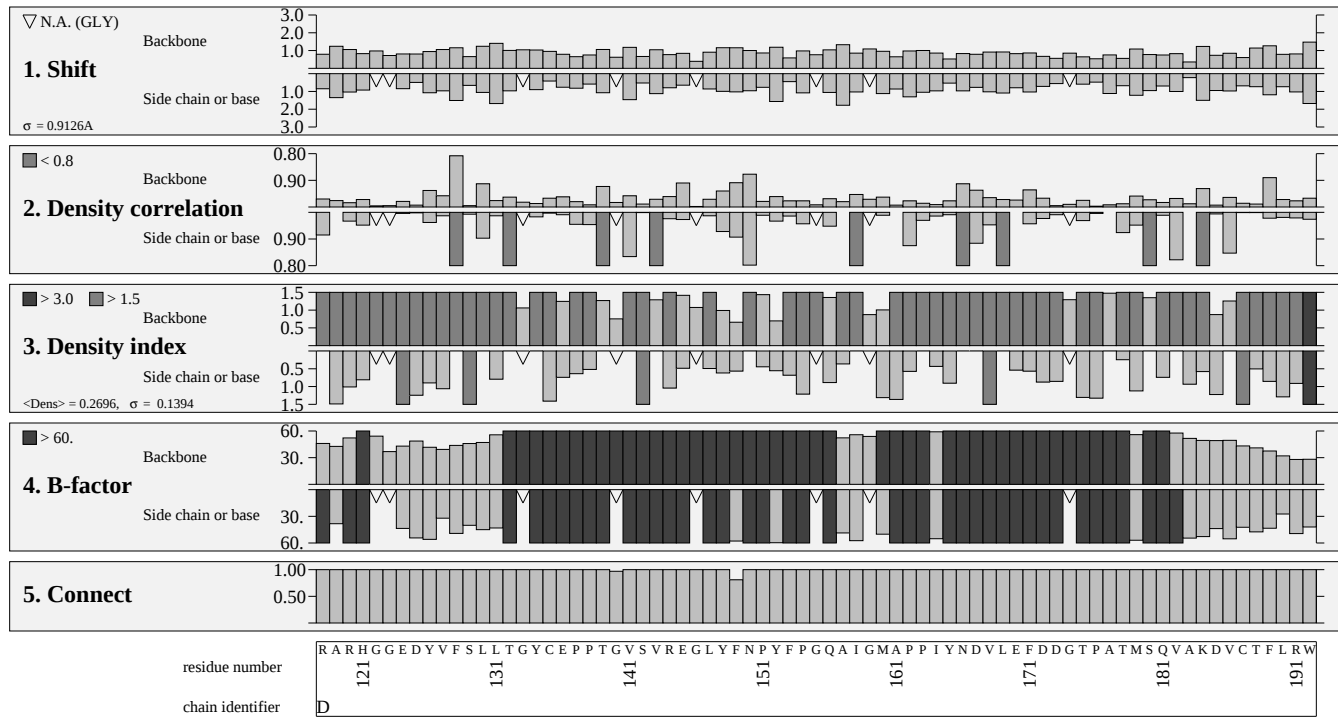
Local estimation (9)



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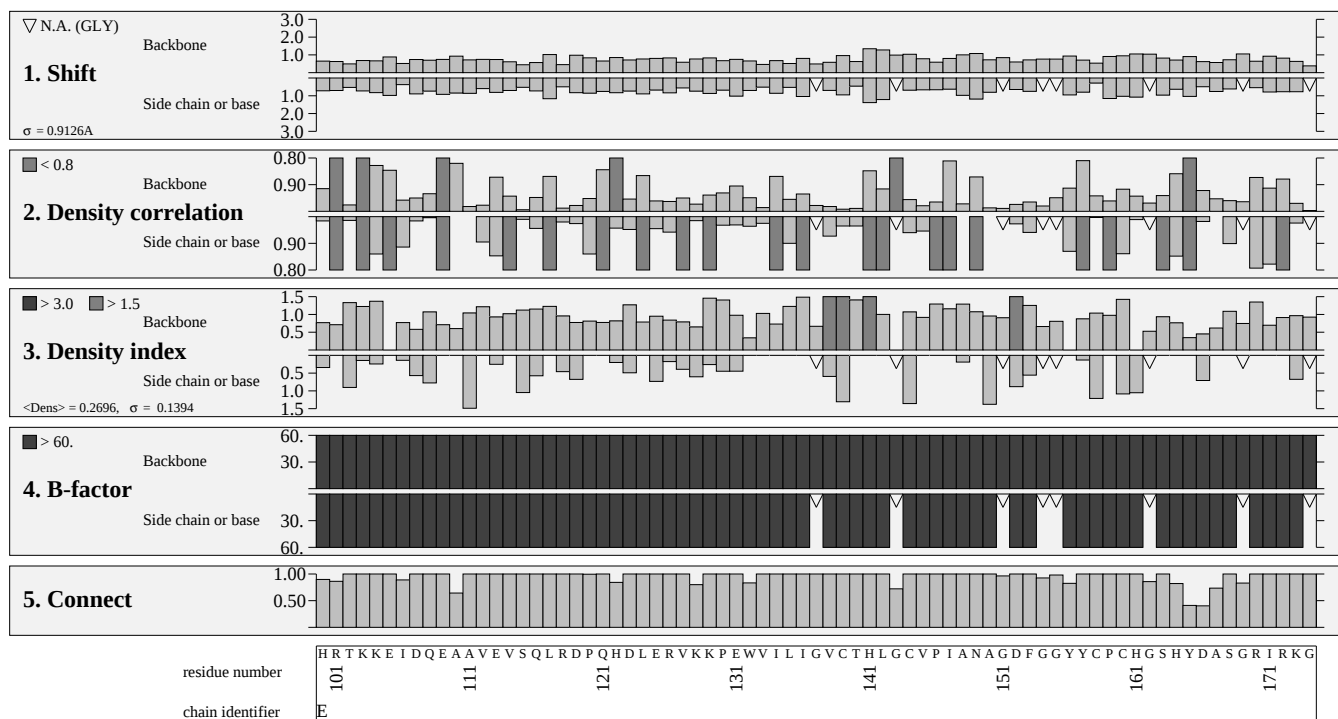
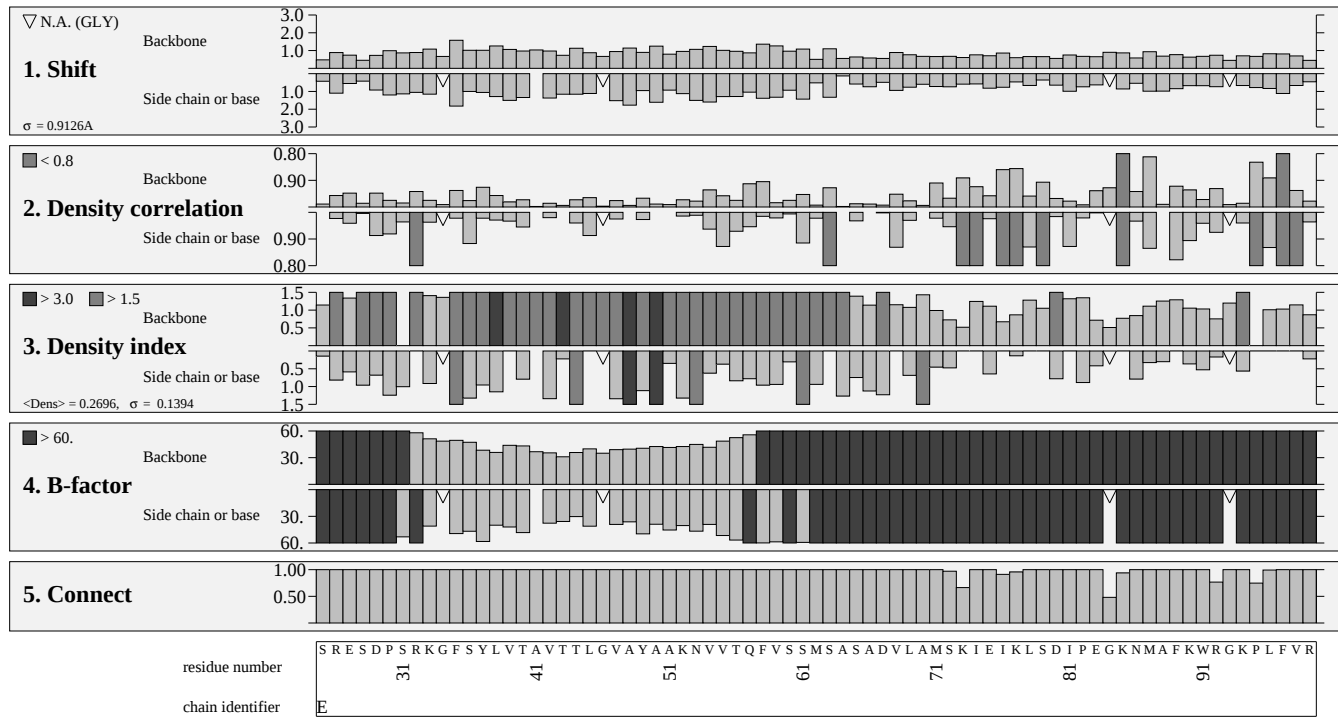
Local estimation (10)



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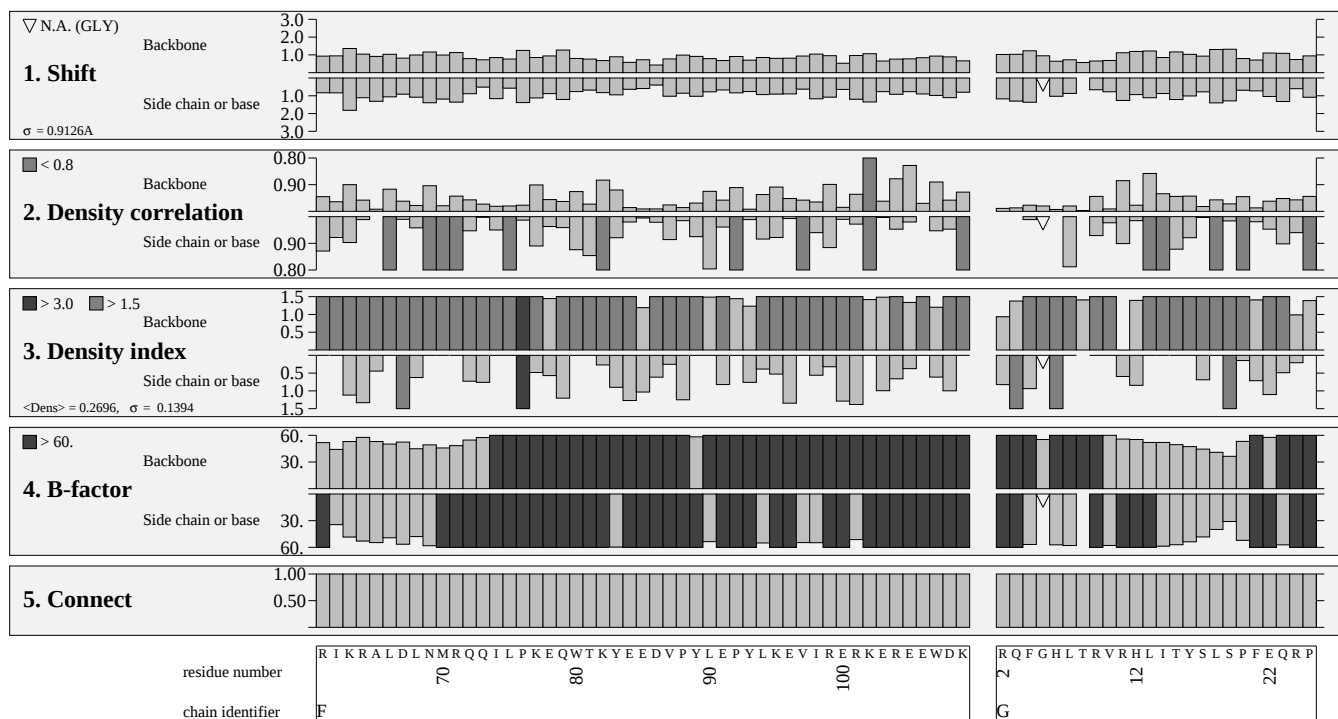
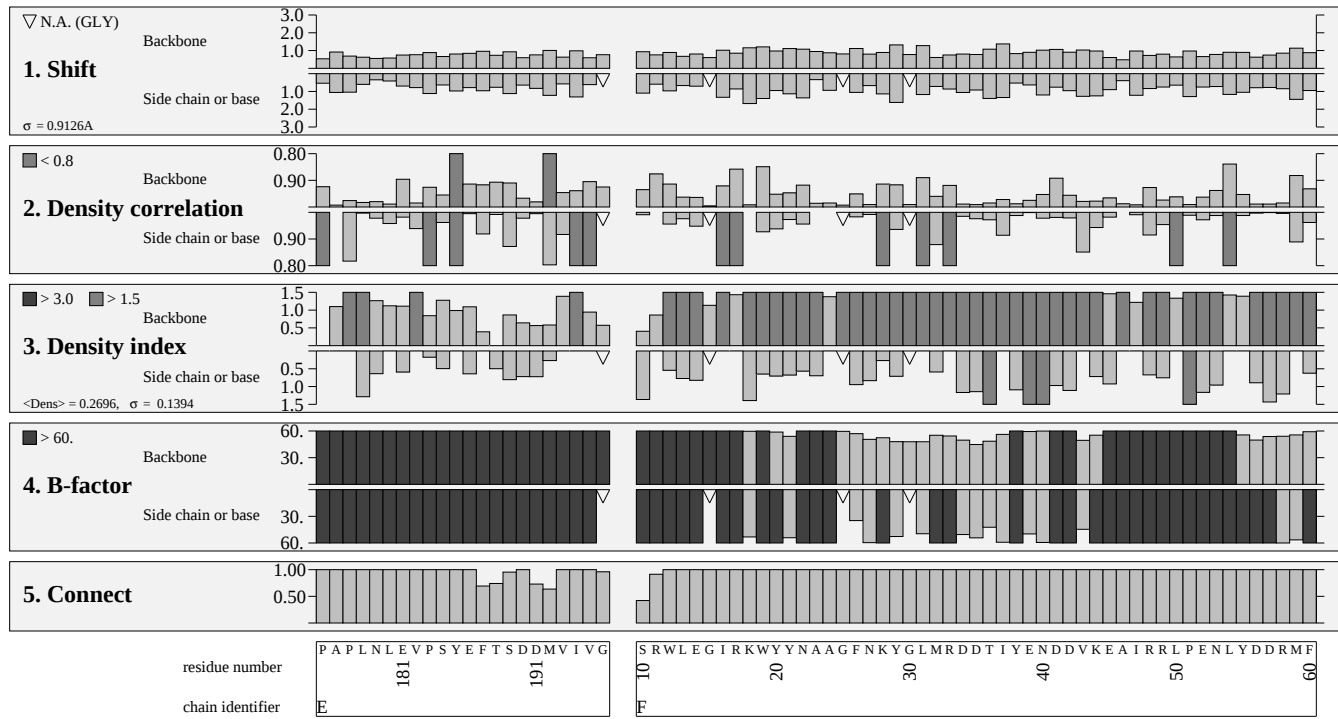
Local estimation (11)



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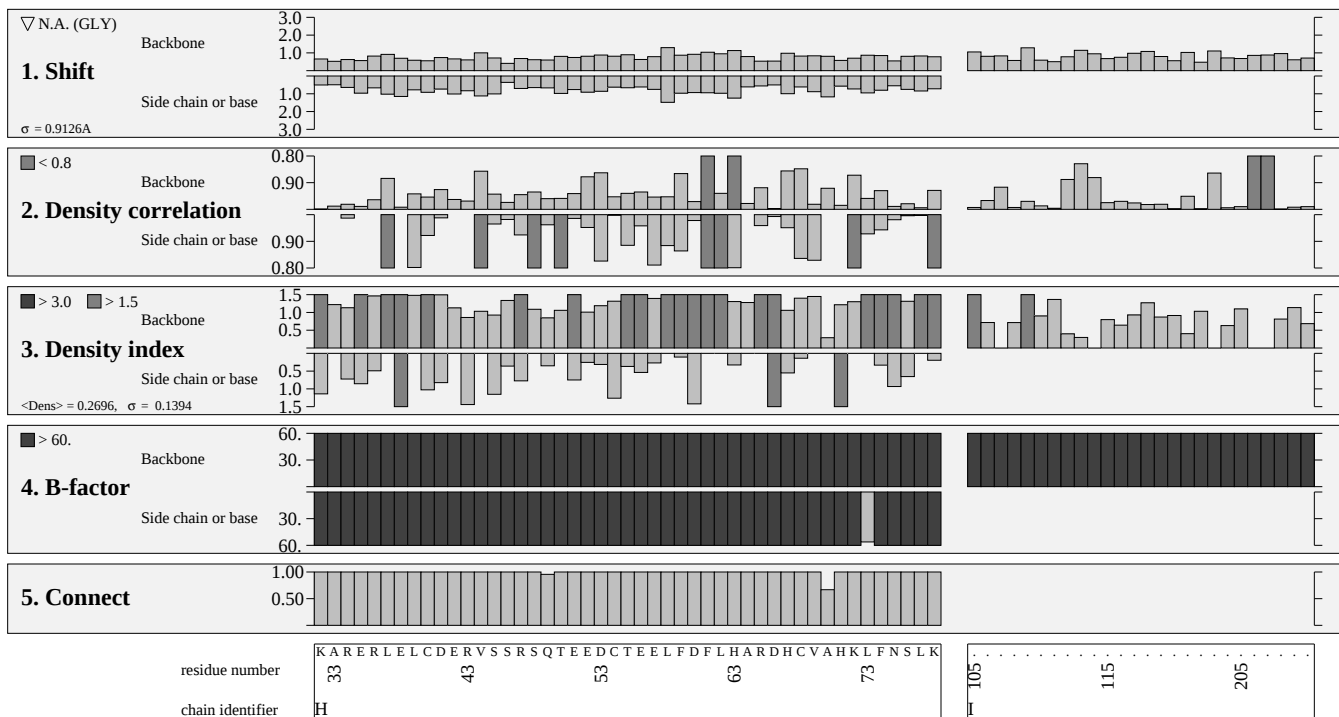
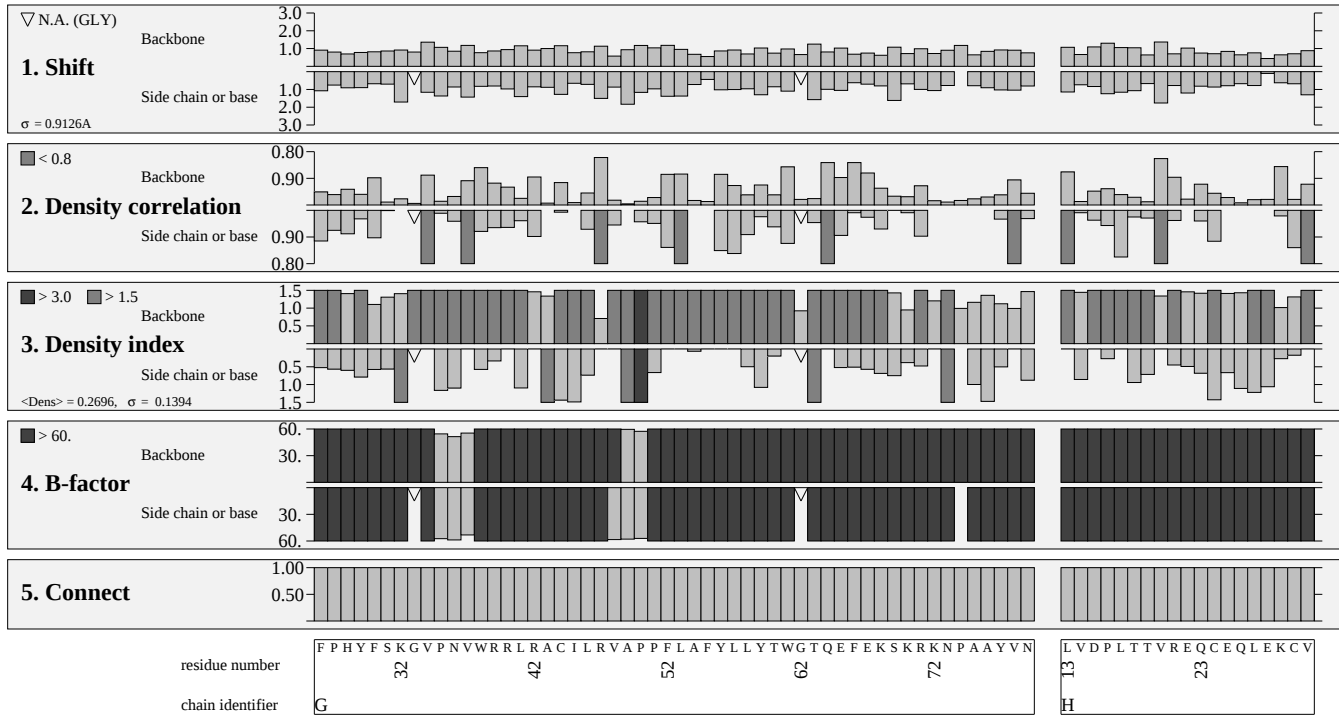
Local estimation (12)



Structure Factor Check

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Local estimation (13)



Structure Factor Check

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Local estimation (14)

