



wwPDB X-ray Structure Validation Summary Report ⓘ

Nov 19, 2023 – 04:29 PM JST

PDB ID : 6LXK
Title : Crystal structure of Z2B3 D102R Fab in complex with influenza virus neuraminidase from A/Serbia/NS-601/2014 (H1N1)
Authors : Jiang, H.; Peng, W.; Qi, J.; Chai, Y.; Song, H.; Shi, Y.; Gao, G.F.; Wu, Y.
Deposited on : 2020-02-11
Resolution : 3.61 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

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A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

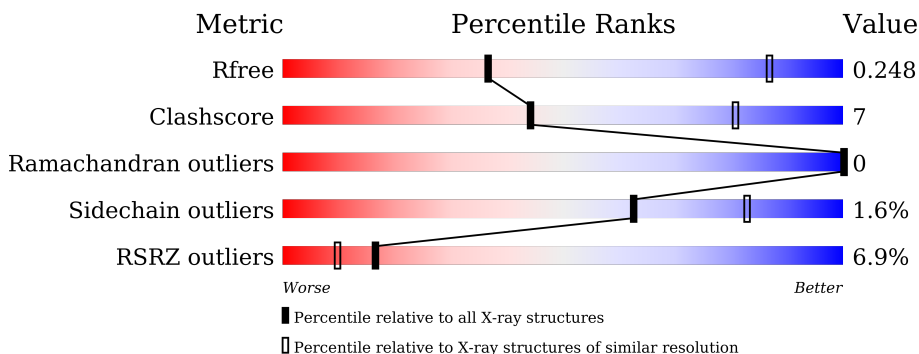
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.61 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	469	
1	B	469	
1	C	469	
1	D	469	
2	E	237	
2	H	237	

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Mol	Chain	Length	Quality of chain
2	J	237	
3	F	216	
3	K	216	
3	L	216	
4	G	3	
4	I	3	
4	M	3	
4	N	3	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	NAG	I	2	-	-	-	X
4	BMA	I	3	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 21987 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Neuraminidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	387	2986	1876	512	577	21	0	0	0
1	B	387	2986	1876	512	577	21	0	0	0
1	C	387	2986	1876	512	577	21	0	0	0
1	D	387	2986	1876	512	577	21	0	0	0

- Molecule 2 is a protein called Heavy chain of Z2B3-D102R Fab.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	232	1730	1093	284	346	7	0	0	0
2	E	232	1730	1093	284	346	7	0	0	0
2	J	232	1730	1093	284	346	7	0	0	0

- Molecule 3 is a protein called Light chain of Z2B3-D102R Fab.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	L	211	1563	973	260	325	5	0	0	0
3	F	211	1563	973	260	325	5	0	0	0
3	K	211	1563	973	260	325	5	0	0	0

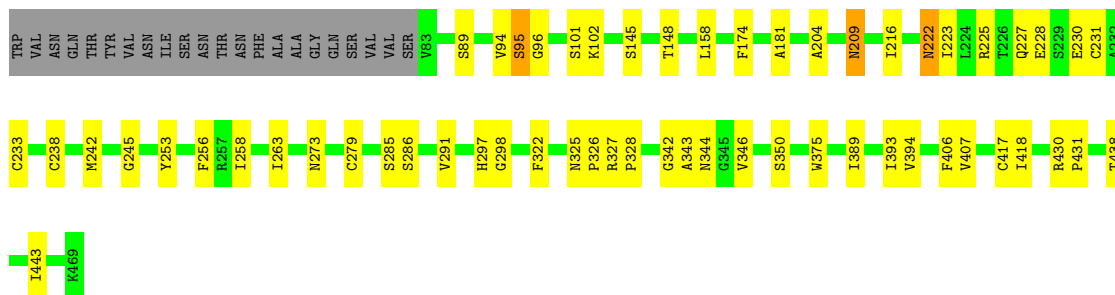
- Molecule 4 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	G	3	Total	C	N	O	0	0	0
			39	22	2	15			
4	I	3	Total	C	N	O	0	0	0
			39	22	2	15			
4	M	3	Total	C	N	O	0	0	0
			39	22	2	15			
4	N	3	Total	C	N	O	0	0	0
			39	22	2	15			

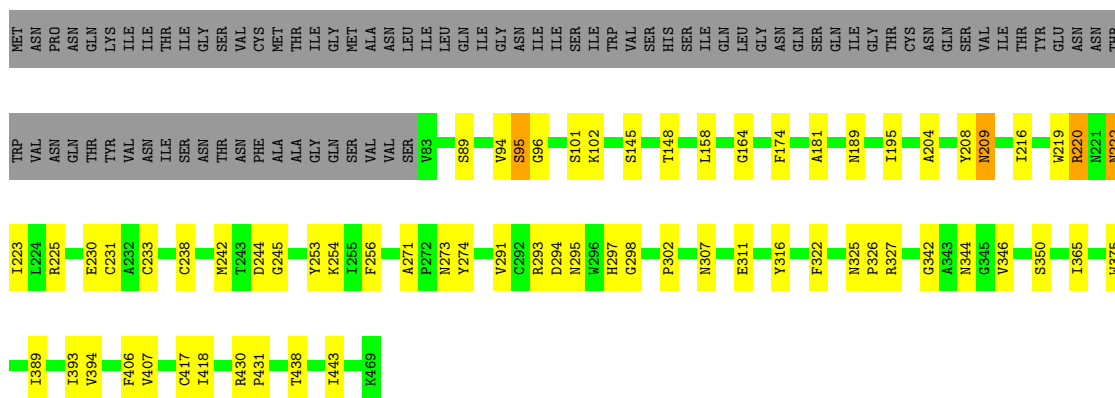
- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	2	Total	Ca	0	0
			2	2		
5	B	2	Total	Ca	0	0
			2	2		
5	C	2	Total	Ca	0	0
			2	2		
5	D	2	Total	Ca	0	0
			2	2		



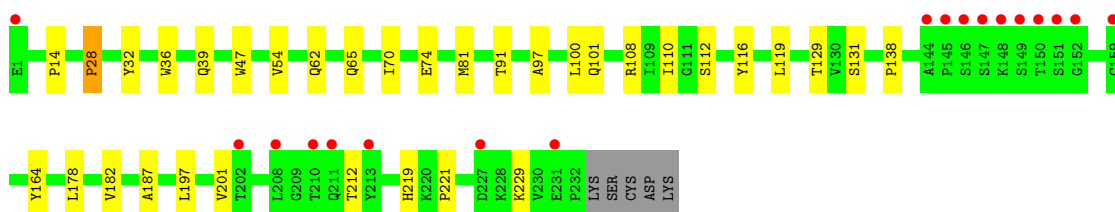
- Molecule 1: Neuraminidase

Chain D: 68% 13% 17%



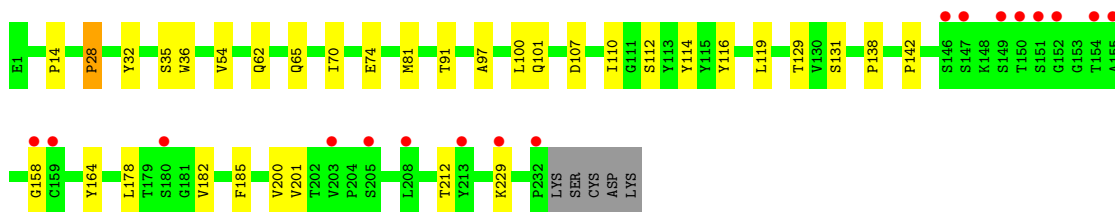
- Molecule 2: Heavy chain of Z2B3-D102R Fab

Chain H: 8% 84% 14%



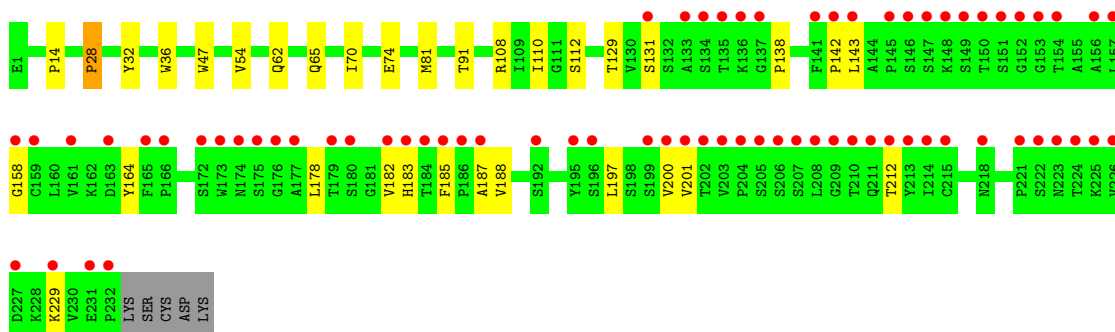
- Molecule 2: Heavy chain of Z2B3-D102R Fab

Chain E: 7% 84% 14%

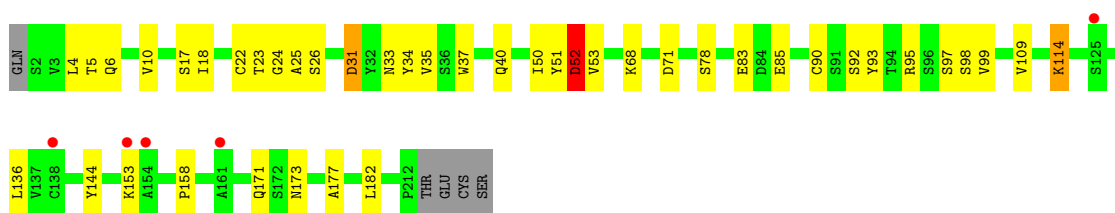
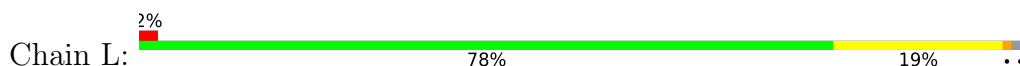


- Molecule 2: Heavy chain of Z2B3-D102R Fab

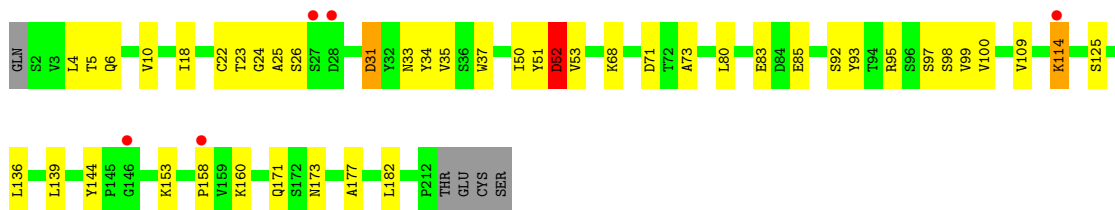
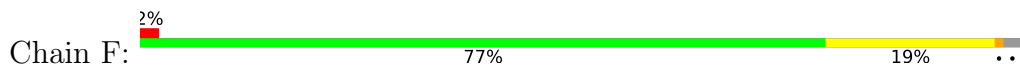
Chain J: 30% 84% 14%



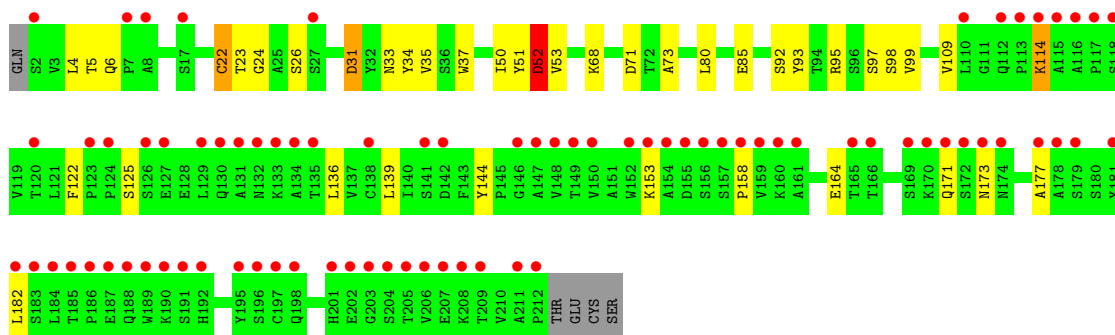
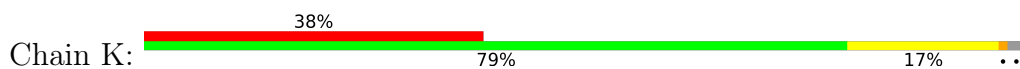
- Molecule 3: Light chain of Z2B3-D102R Fab



- Molecule 3: Light chain of Z2B3-D102R Fab



- Molecule 3: Light chain of Z2B3-D102R Fab



- Molecule 4: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain G:  100%

BIAC1
BIAC2
BIAC3

- Molecule 4: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain I:  100%

BIAC1
BIAC2
BIAC3

- Molecule 4: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain M:  100%

BIAC1
BIAC2
BIAC3

- Molecule 4: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain N:  100%

BIAC1
BIAC2
BIAC3

4 Data and refinement statistics i

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	214.44Å 214.44Å 168.68Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.46 – 3.61 25.46 – 3.61	Depositor EDS
% Data completeness (in resolution range)	99.5 (25.46-3.61) 99.5 (25.46-3.61)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.50 (at 3.64Å)	Xtrriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.215 , 0.249 0.214 , 0.248	Depositor DCC
R_{free} test set	2511 reflections (4.89%)	wwPDB-VP
Wilson B-factor (Å ²)	65.5	Xtrriage
Anisotropy	0.099	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 40.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.018 for -h,-k,l	Xtrriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	21987	wwPDB-VP
Average B, all atoms (Å ²)	97.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.32% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, BMA, CA

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.26	0/3068	0.47	0/4169
1	B	0.26	0/3068	0.47	0/4169
1	C	0.26	0/3068	0.47	0/4169
1	D	0.26	0/3068	0.48	0/4169
2	E	0.25	0/1772	0.46	0/2416
2	H	0.25	0/1772	0.45	0/2416
2	J	0.25	0/1772	0.46	0/2416
3	F	0.27	0/1600	0.49	0/2183
3	K	0.26	0/1600	0.51	0/2183
3	L	0.28	0/1600	0.50	0/2183
All	All	0.26	0/22388	0.48	0/30473

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	1
2	E	0	1
2	H	0	1
2	J	0	1
3	F	0	1
3	K	0	1
3	L	0	1
All	All	0	13

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 13 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	222	ASN	Peptide
1	A	343	ALA	Peptide
1	B	222	ASN	Peptide
2	H	28	PRO	Peptide
3	L	52	ASP	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2986	0	2809	38	0
1	B	2986	0	2809	33	0
1	C	2986	0	2809	34	0
1	D	2986	0	2809	40	0
2	E	1730	0	1695	21	0
2	H	1730	0	1695	23	0
2	J	1730	0	1695	22	0
3	F	1563	0	1505	34	0
3	K	1563	0	1505	33	0
3	L	1563	0	1505	33	0
4	G	39	0	34	0	0
4	I	39	0	34	0	0
4	M	39	0	34	0	0
4	N	39	0	34	0	0
5	A	2	0	0	0	0
5	B	2	0	0	0	0
5	C	2	0	0	0	0
5	D	2	0	0	0	0
All	All	21987	0	20972	284	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 7.

The worst 5 of 284 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:430:ARG:NH1	2:H:74:GLU:OE2	2.05	0.90
1:C:430:ARG:NH1	2:J:74:GLU:OE2	2.09	0.84
3:K:35:VAL:HB	3:K:53:VAL:HG22	1.60	0.81
3:L:35:VAL:HB	3:L:53:VAL:HG22	1.65	0.79
3:K:171:GLN:HE21	3:K:177:ALA:HB2	1.50	0.77

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	385/469 (82%)	384 (100%)	1 (0%)	0	100	100
1	B	385/469 (82%)	383 (100%)	2 (0%)	0	100	100
1	C	385/469 (82%)	383 (100%)	2 (0%)	0	100	100
1	D	385/469 (82%)	384 (100%)	1 (0%)	0	100	100
2	E	230/237 (97%)	230 (100%)	0	0	100	100
2	H	230/237 (97%)	230 (100%)	0	0	100	100
2	J	230/237 (97%)	230 (100%)	0	0	100	100
3	F	209/216 (97%)	204 (98%)	5 (2%)	0	100	100
3	K	209/216 (97%)	204 (98%)	5 (2%)	0	100	100
3	L	209/216 (97%)	204 (98%)	5 (2%)	0	100	100
All	All	2857/3235 (88%)	2836 (99%)	21 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar

resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	332/407 (82%)	328 (99%)	4 (1%)	71	87
1	B	332/407 (82%)	328 (99%)	4 (1%)	71	87
1	C	332/407 (82%)	328 (99%)	4 (1%)	71	87
1	D	332/407 (82%)	327 (98%)	5 (2%)	65	84
2	E	195/200 (98%)	195 (100%)	0	100	100
2	H	195/200 (98%)	195 (100%)	0	100	100
2	J	195/200 (98%)	194 (100%)	1 (0%)	88	95
3	F	178/183 (97%)	170 (96%)	8 (4%)	27	62
3	K	178/183 (97%)	171 (96%)	7 (4%)	32	65
3	L	178/183 (97%)	171 (96%)	7 (4%)	32	65
All	All	2447/2777 (88%)	2407 (98%)	40 (2%)	62	83

5 of 40 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	F	97	SER
3	K	31	ASP
3	F	114	LYS
2	J	183	HIS
3	K	97	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
3	K	171	GLN
3	K	173	ASN
3	F	171	GLN
3	F	173	ASN
2	J	39	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

12 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
4	NAG	G	1	1,4	14,14,15	0.22	0	17,19,21	0.37	0
4	NAG	G	2	4	14,14,15	0.19	0	17,19,21	0.44	0
4	BMA	G	3	4	11,11,12	0.64	0	15,15,17	0.75	0
4	NAG	I	1	1,4	14,14,15	0.23	0	17,19,21	0.36	0
4	NAG	I	2	4	14,14,15	0.20	0	17,19,21	0.40	0
4	BMA	I	3	4	11,11,12	0.61	0	15,15,17	0.76	0
4	NAG	M	1	1,4	14,14,15	0.21	0	17,19,21	0.38	0
4	NAG	M	2	4	14,14,15	0.20	0	17,19,21	0.43	0
4	BMA	M	3	4	11,11,12	0.63	0	15,15,17	0.78	0
4	NAG	N	1	1,4	14,14,15	0.20	0	17,19,21	0.38	0
4	NAG	N	2	4	14,14,15	0.19	0	17,19,21	0.42	0
4	BMA	N	3	4	11,11,12	0.65	0	15,15,17	0.75	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	G	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	G	2	4	-	0/6/23/26	0/1/1/1
4	BMA	G	3	4	-	0/2/19/22	0/1/1/1
4	NAG	I	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	I	2	4	-	0/6/23/26	0/1/1/1
4	BMA	I	3	4	-	0/2/19/22	0/1/1/1
4	NAG	M	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	M	2	4	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	BMA	M	3	4	-	0/2/19/22	0/1/1/1
4	NAG	N	1	1,4	-	0/6/23/26	0/1/1/1
4	NAG	N	2	4	-	0/6/23/26	0/1/1/1
4	BMA	N	3	4	-	0/2/19/22	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

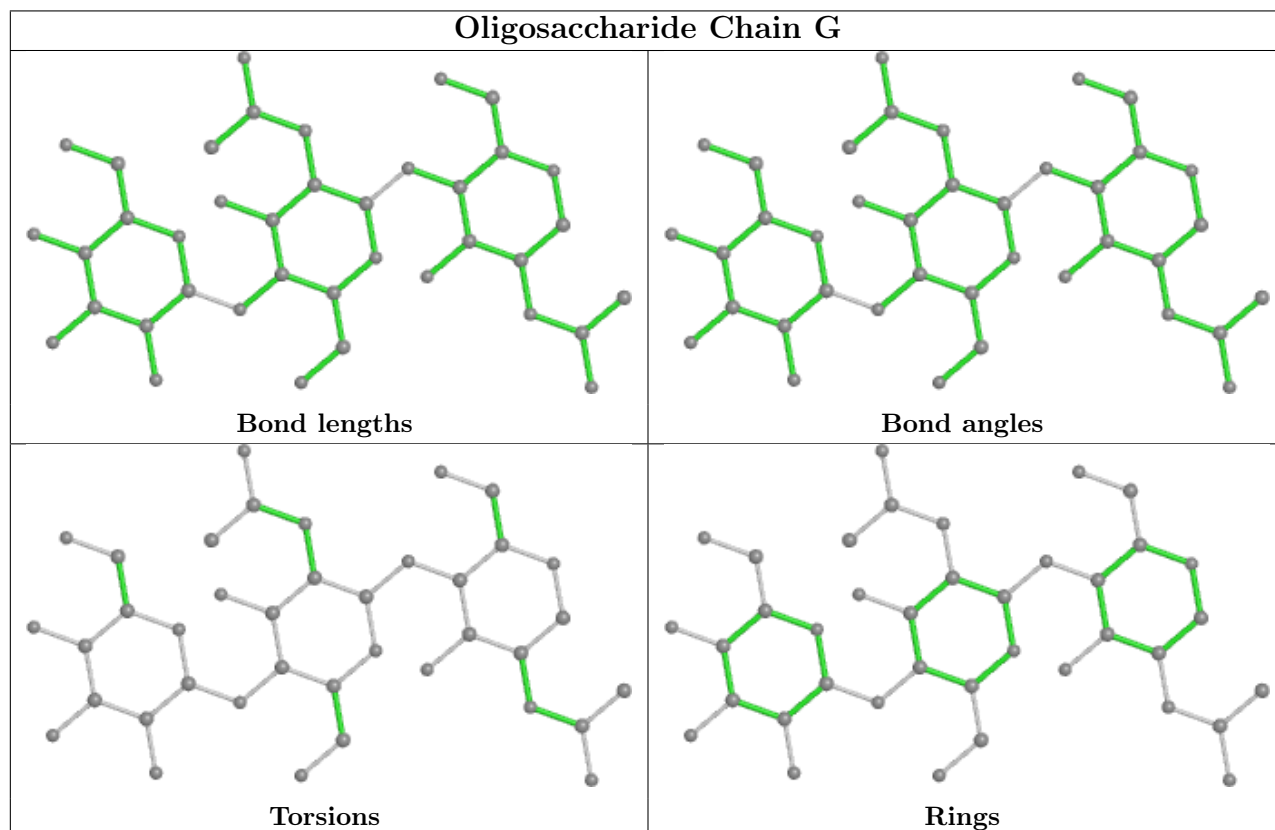
There are no chirality outliers.

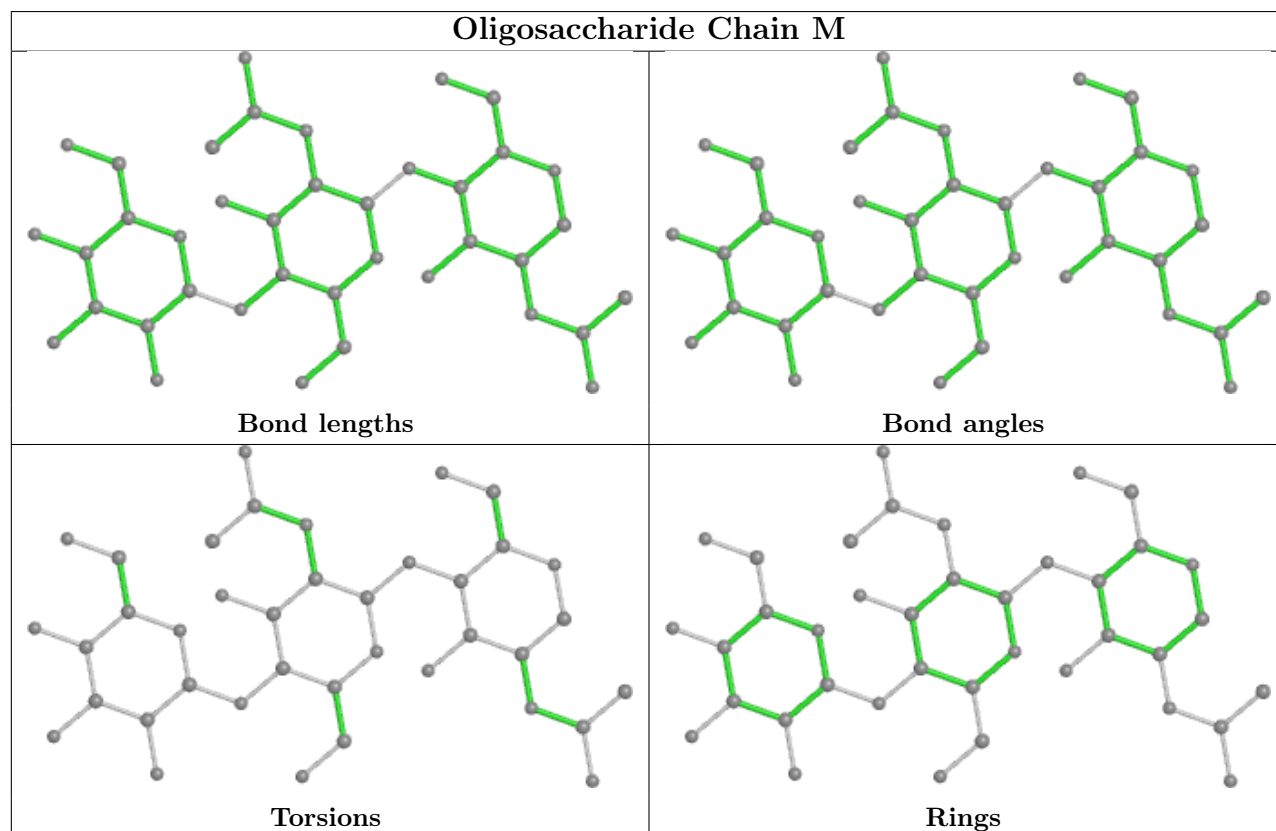
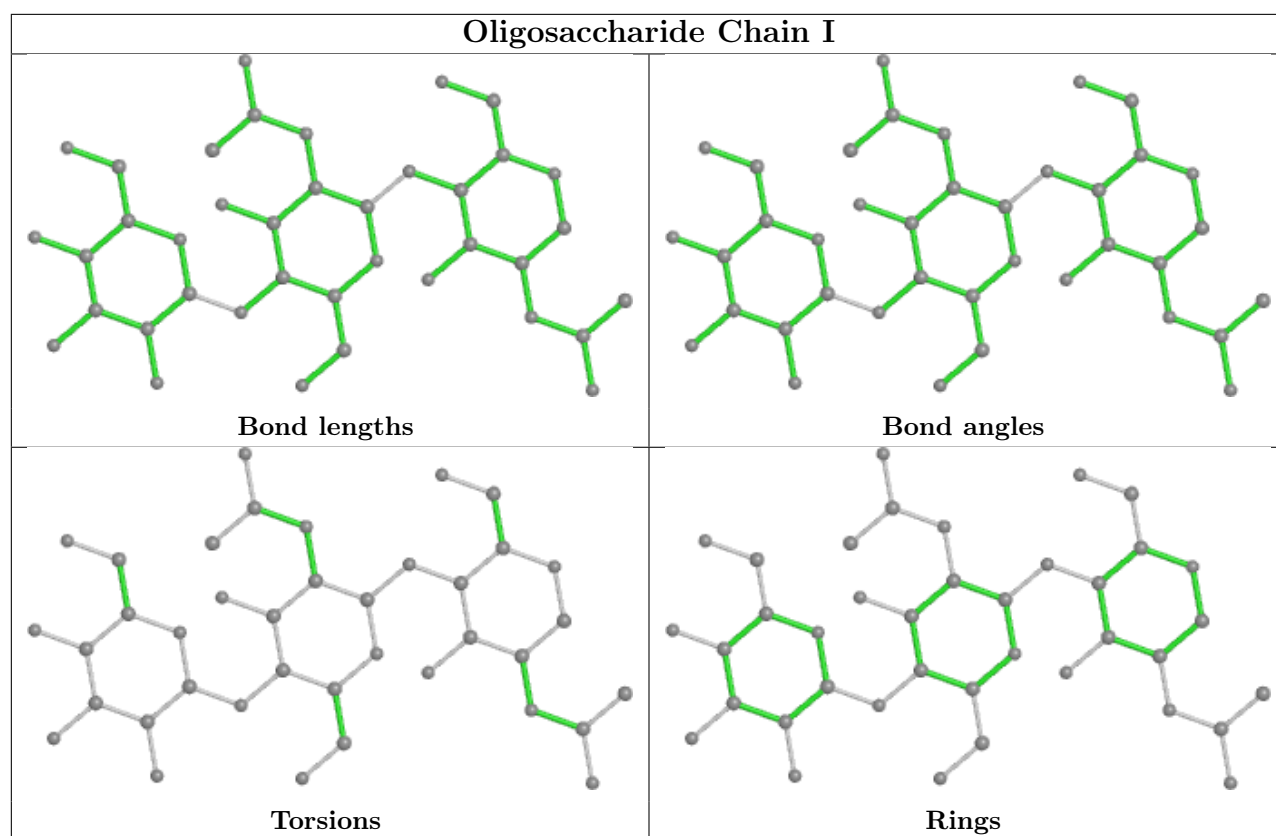
There are no torsion outliers.

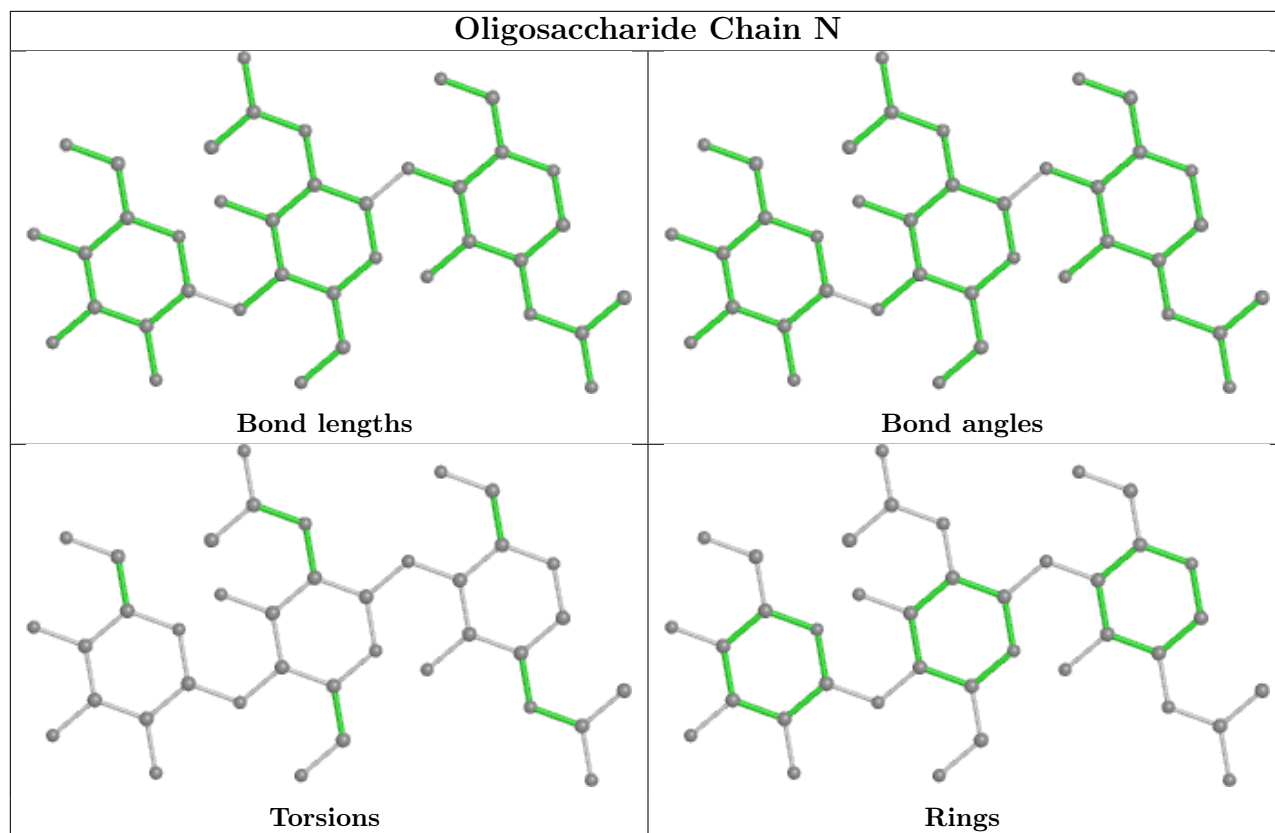
There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.







5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 8 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2		OWAB(Å ²)	Q < 0.9
1	A	387/469 (82%)	-0.70	0	100 100	21, 49, 77, 106	0
1	B	387/469 (82%)	-0.68	0	100 100	22, 48, 77, 144	0
1	C	387/469 (82%)	-0.67	0	100 100	32, 53, 84, 101	0
1	D	387/469 (82%)	-0.69	0	100 100	24, 52, 81, 145	0
2	E	232/237 (97%)	0.11	17 (7%)	15 9	43, 104, 224, 361	0
2	H	232/237 (97%)	0.13	18 (7%)	13 8	41, 101, 234, 393	0
2	J	232/237 (97%)	1.52	72 (31%)	0 0	50, 156, 399, 524	0
3	F	211/216 (97%)	0.11	5 (2%)	59 42	64, 124, 178, 224	0
3	K	211/216 (97%)	1.85	81 (38%)	0 0	101, 210, 388, 547	0
3	L	211/216 (97%)	-0.00	5 (2%)	59 42	44, 101, 199, 264	0
All	All	2877/3235 (88%)	-0.08	198 (6%)	16 10	21, 66, 260, 547	0

The worst 5 of 198 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	K	149	THR	11.5
2	E	150	THR	10.4
2	J	202	THR	10.3
2	J	232	PRO	8.3
2	J	150	THR	8.2

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

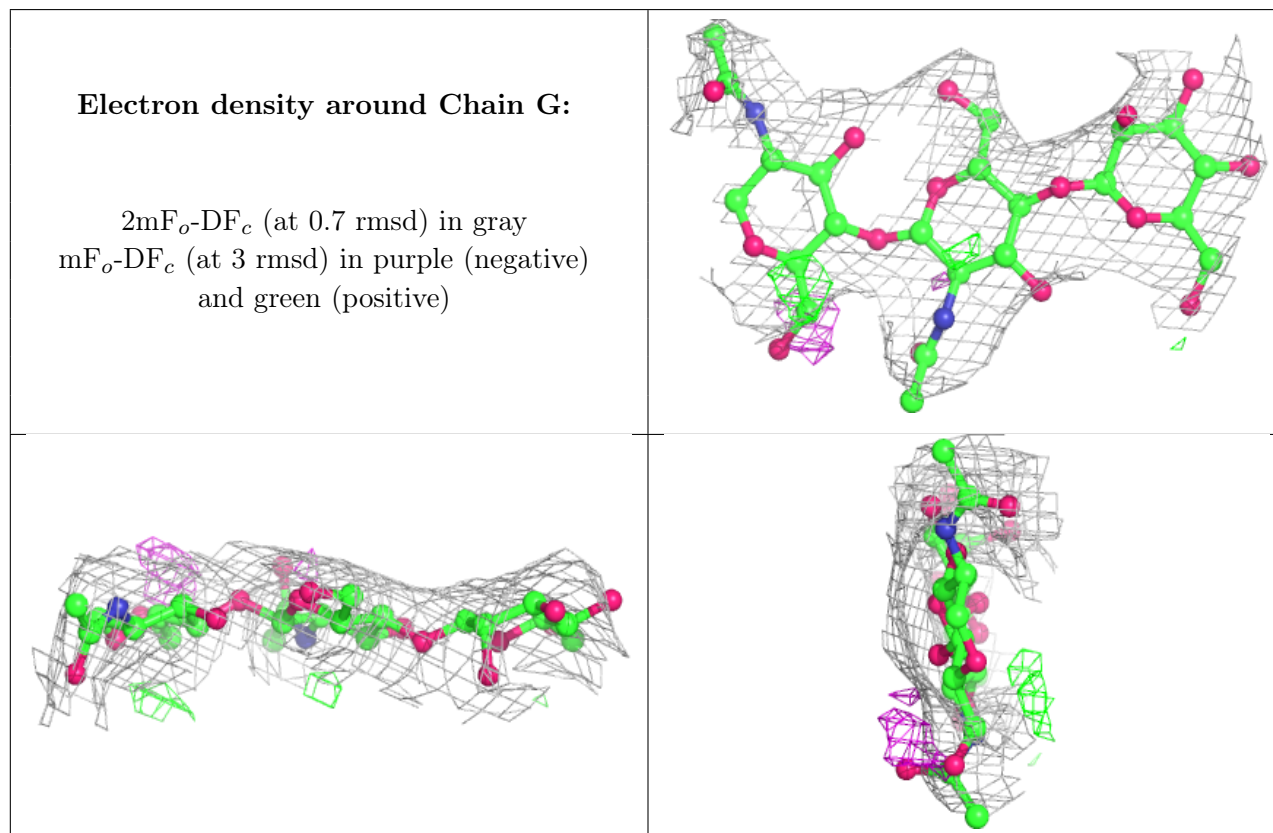
There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

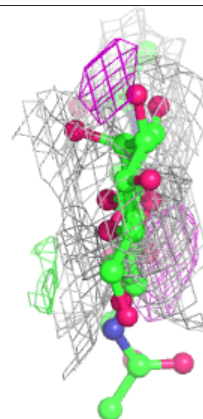
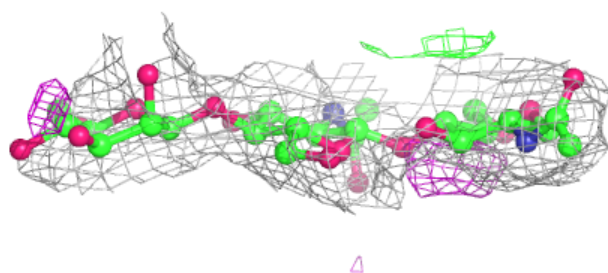
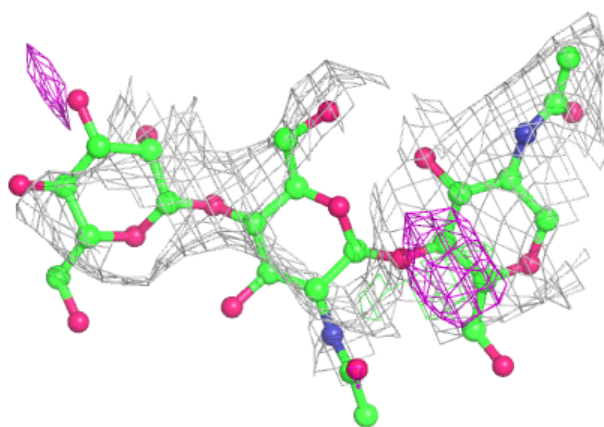
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	BMA	I	3	11/12	0.55	0.63	183,185,194,206	0
4	NAG	I	2	14/15	0.59	0.55	188,208,226,230	0
4	BMA	G	3	11/12	0.70	0.36	138,154,164,167	0
4	NAG	I	1	14/15	0.70	0.35	89,119,162,183	0
4	BMA	M	3	11/12	0.79	0.35	120,139,150,153	0
4	NAG	G	1	14/15	0.82	0.24	71,90,107,122	0
4	BMA	N	3	11/12	0.83	0.46	121,143,160,164	0
4	NAG	N	1	14/15	0.85	0.26	73,83,103,115	0
4	NAG	M	2	14/15	0.87	0.33	124,139,150,159	0
4	NAG	G	2	14/15	0.88	0.25	94,102,114,120	0
4	NAG	N	2	14/15	0.88	0.36	94,109,124,129	0
4	NAG	M	1	14/15	0.88	0.29	72,89,113,120	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

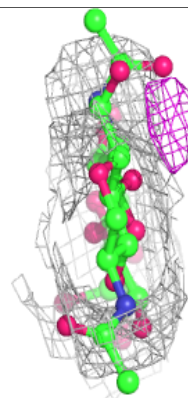
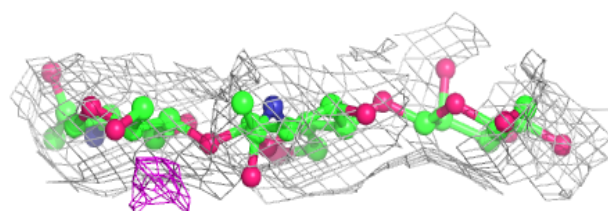
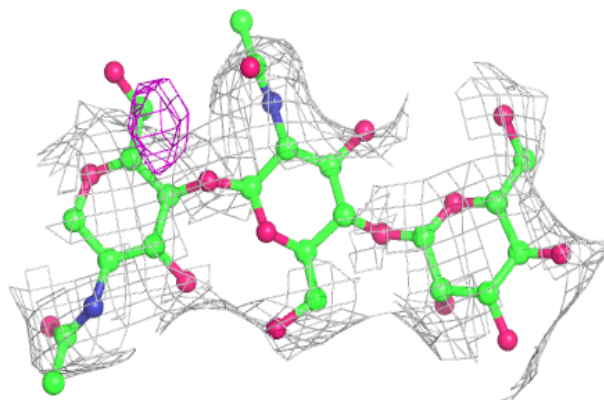


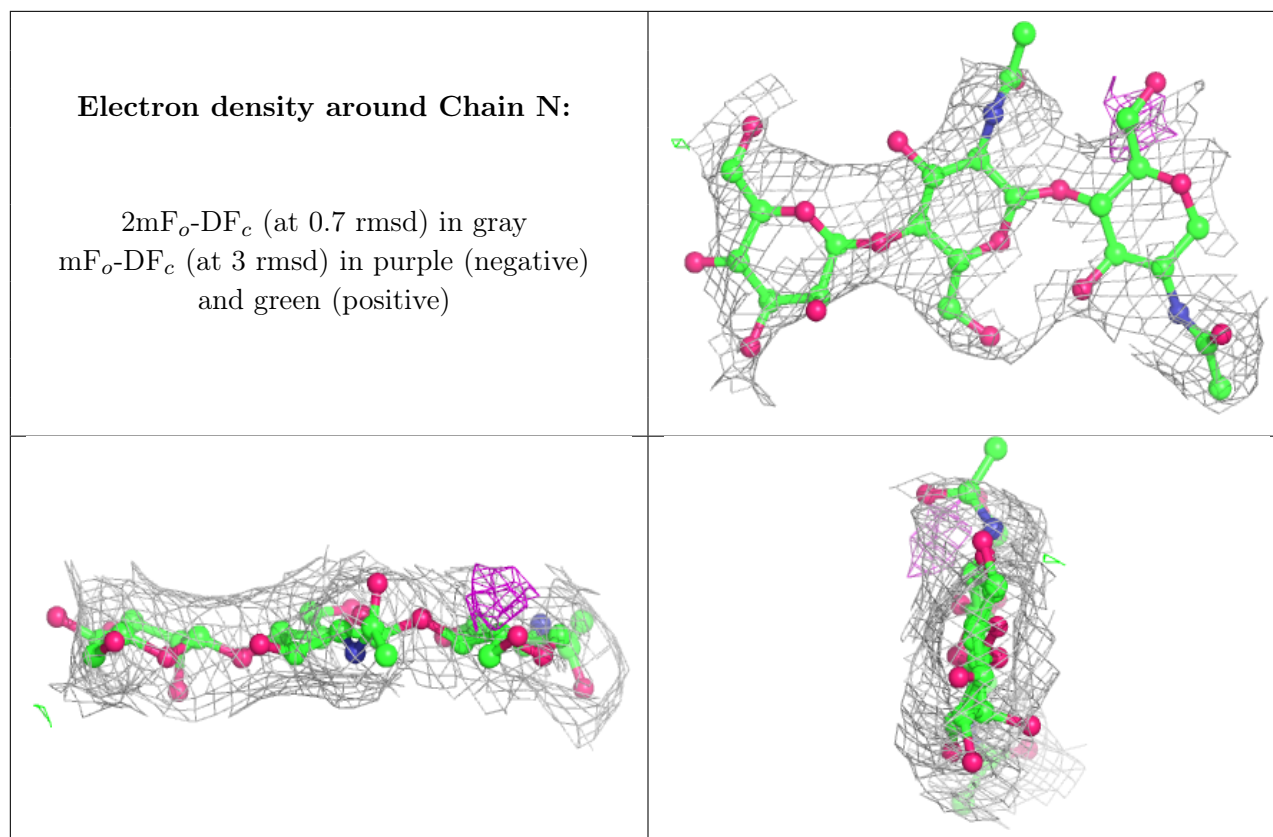
Electron density around Chain I:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around Chain M:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.4 Ligands [i](#)

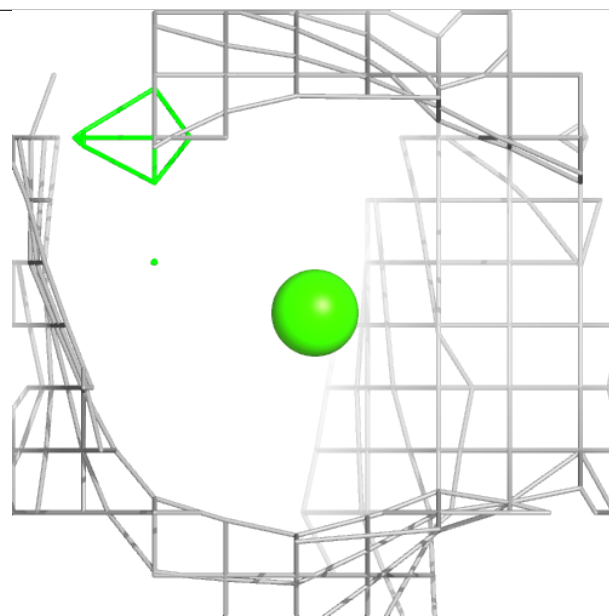
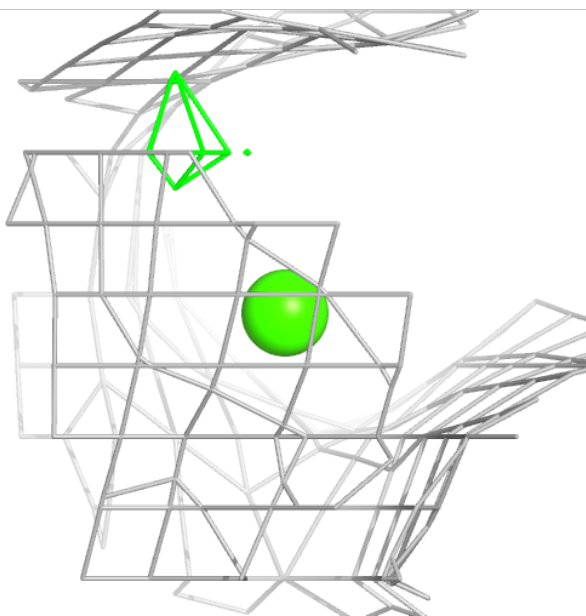
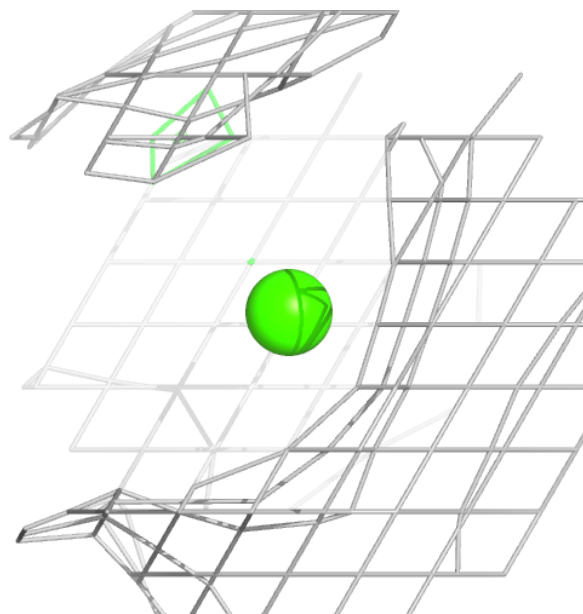
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	CA	B	502	1/1	0.64	0.11	96,96,96,96	0
5	CA	C	502	1/1	0.68	0.12	70,70,70,70	0
5	CA	D	502	1/1	0.86	0.11	81,81,81,81	0
5	CA	B	501	1/1	0.89	0.10	54,54,54,54	0
5	CA	A	502	1/1	0.89	0.06	72,72,72,72	0
5	CA	D	501	1/1	0.94	0.18	45,45,45,45	0
5	CA	A	501	1/1	0.95	0.20	36,36,36,36	0
5	CA	C	501	1/1	0.98	0.16	52,52,52,52	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

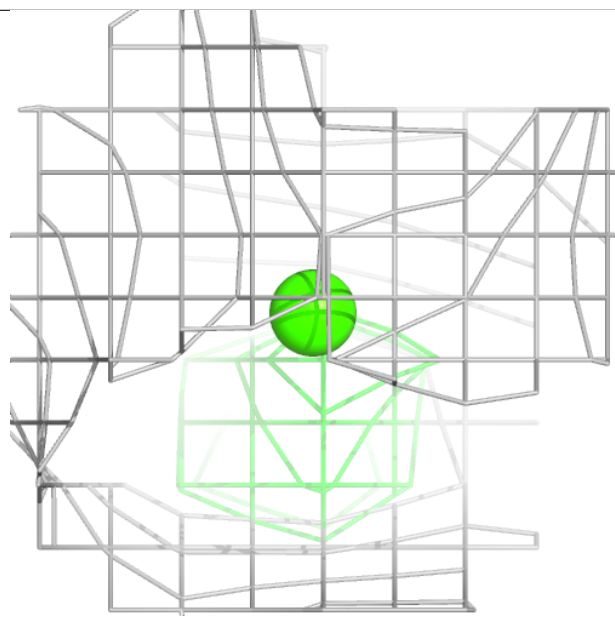
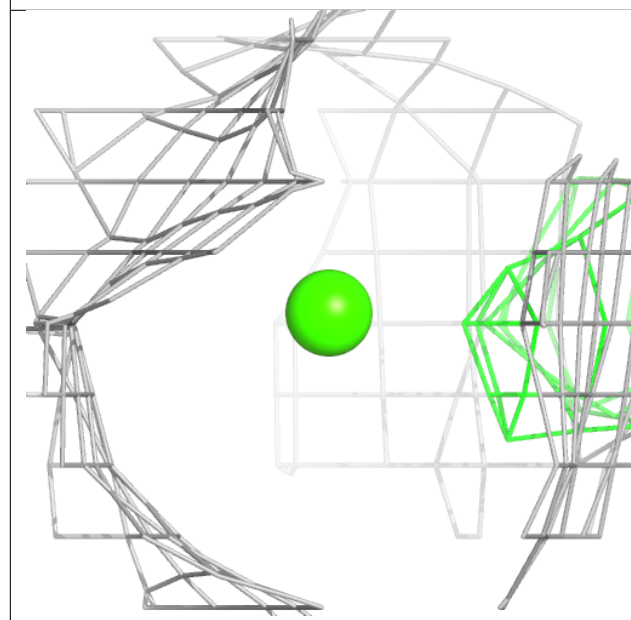
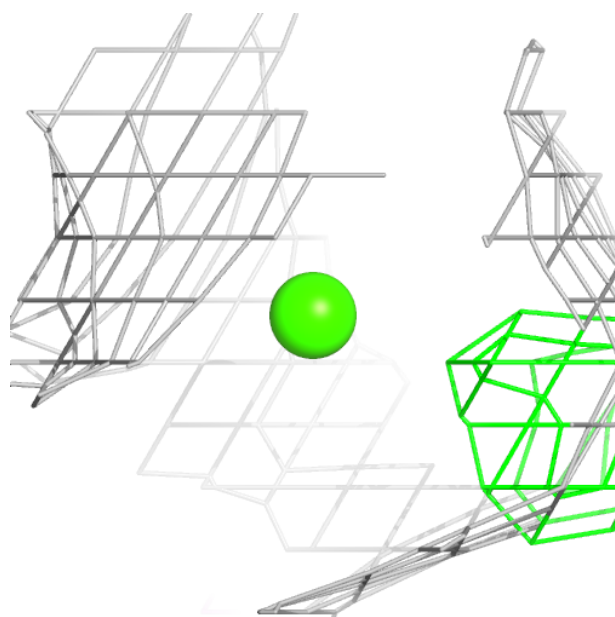
Electron density around CA B 502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



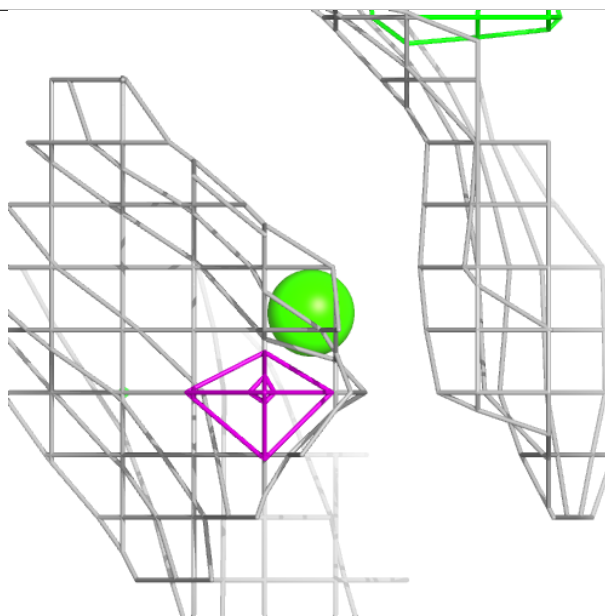
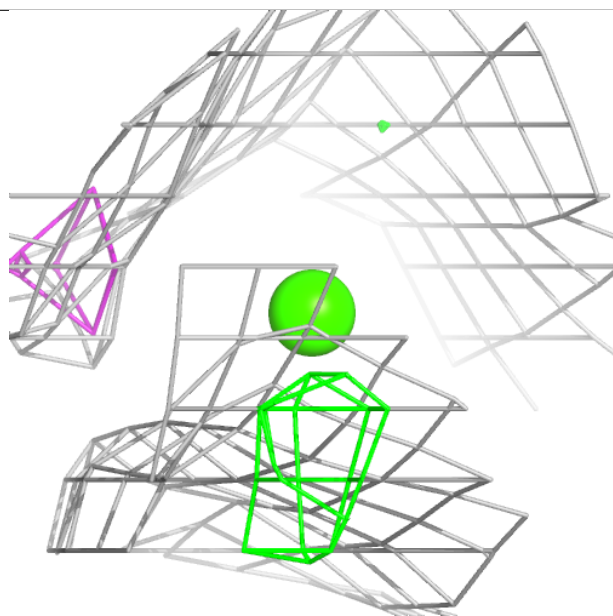
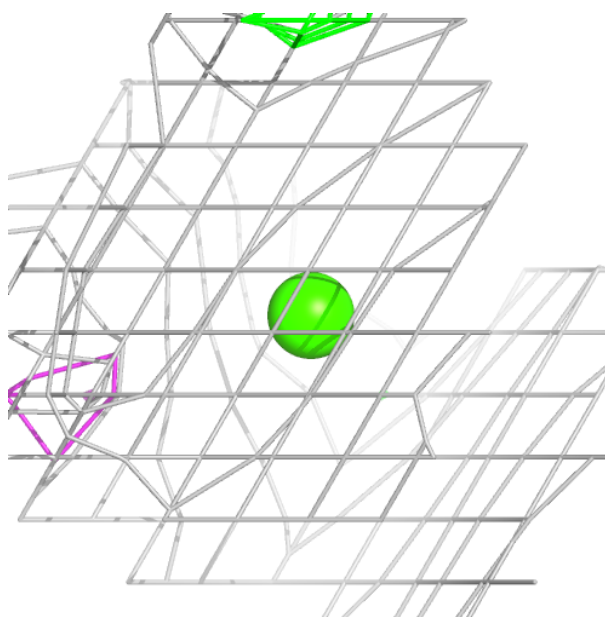
Electron density around CA C 502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



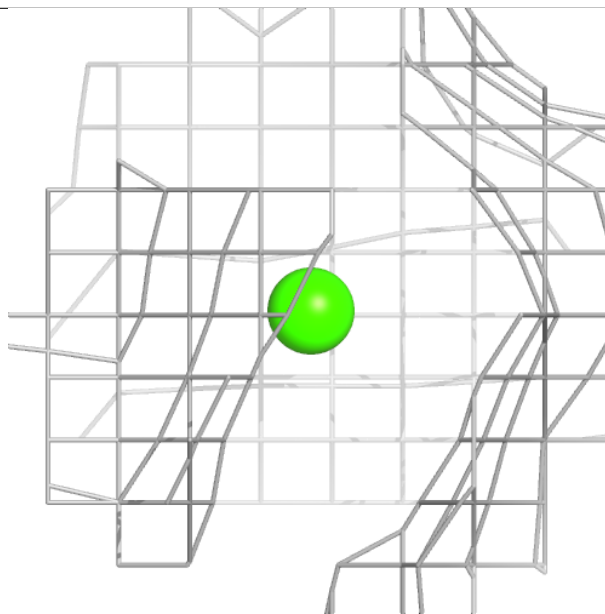
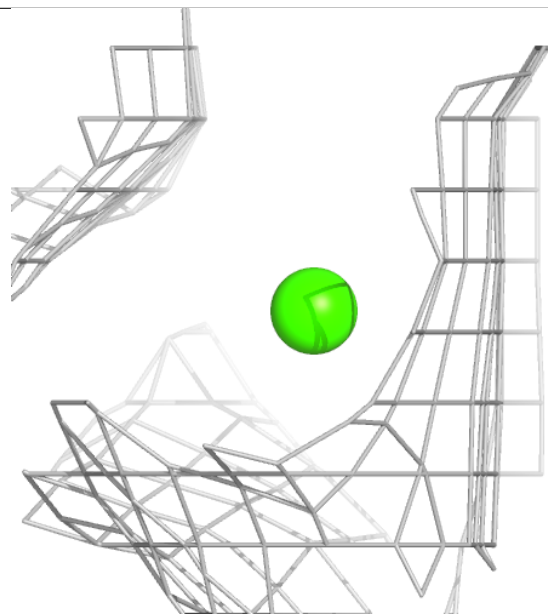
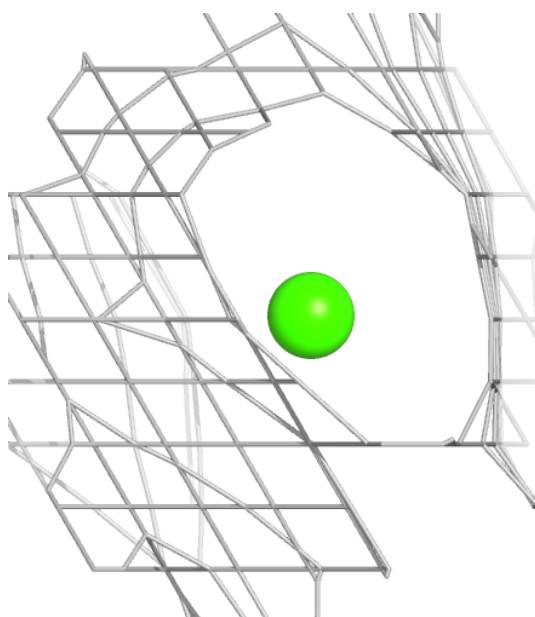
Electron density around CA D 502:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



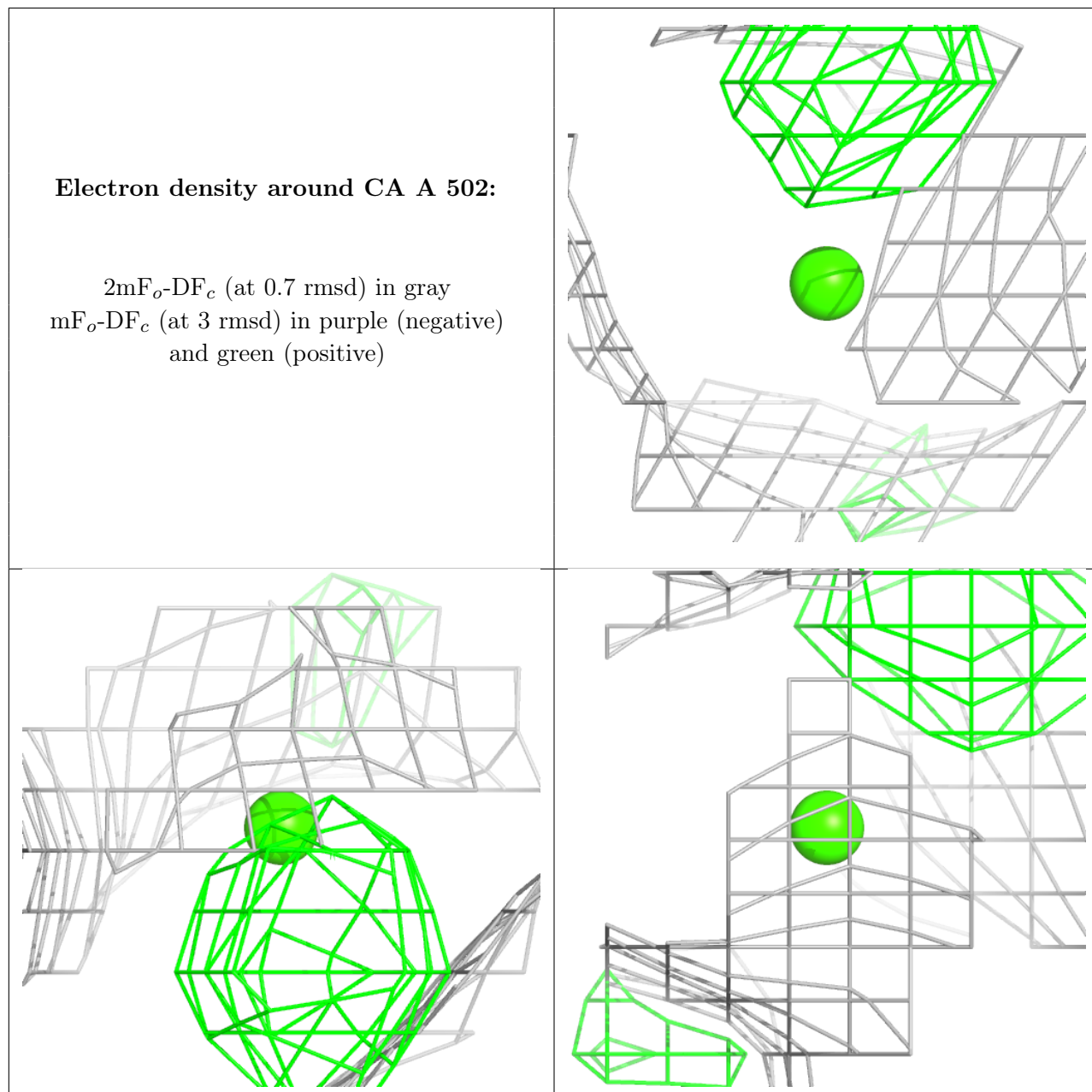
Electron density around CA B 501:

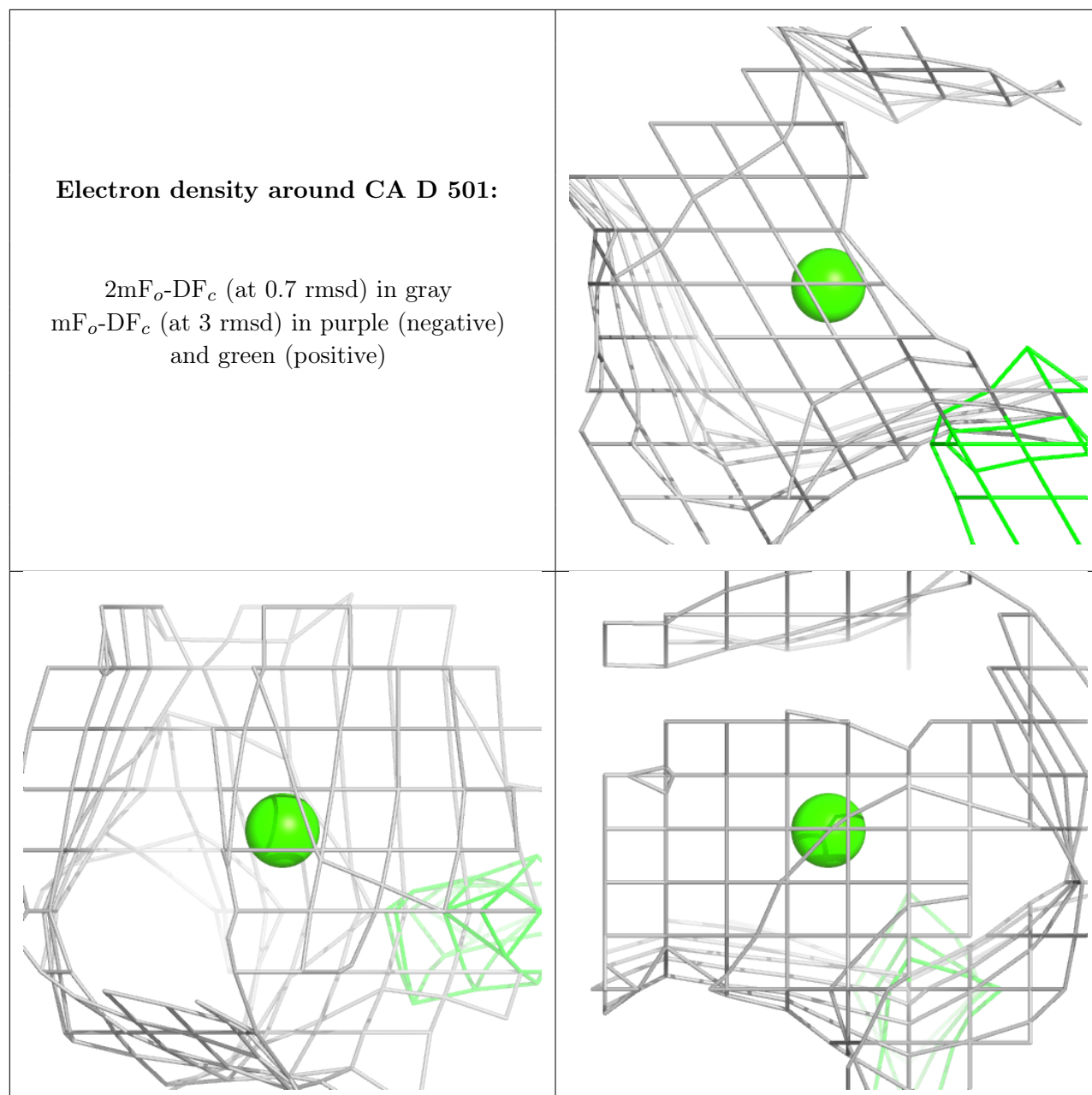
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CA A 502:

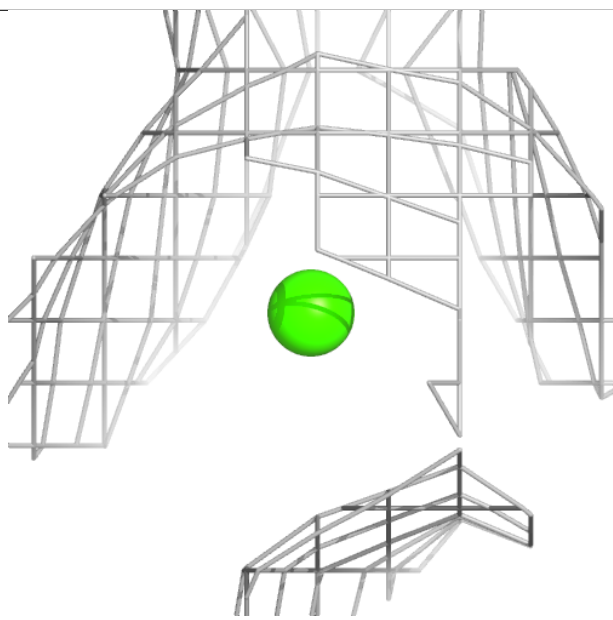
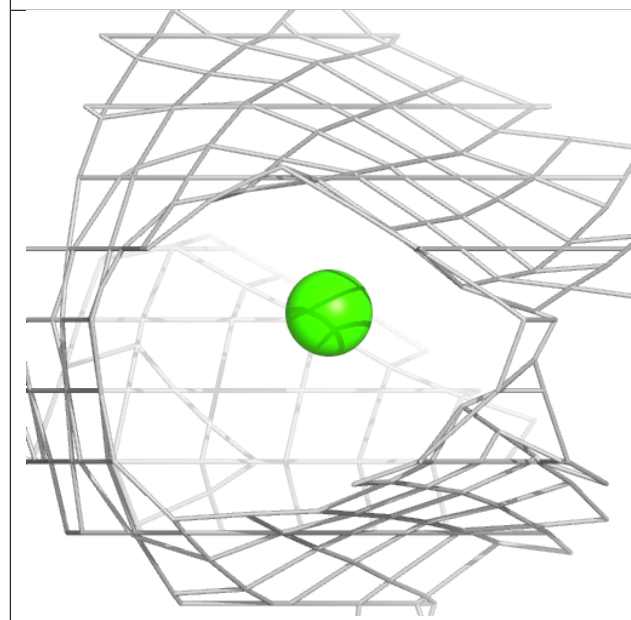
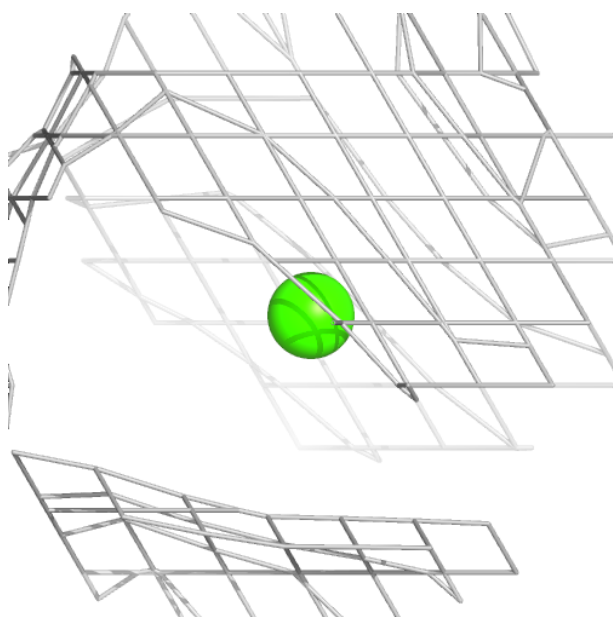
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

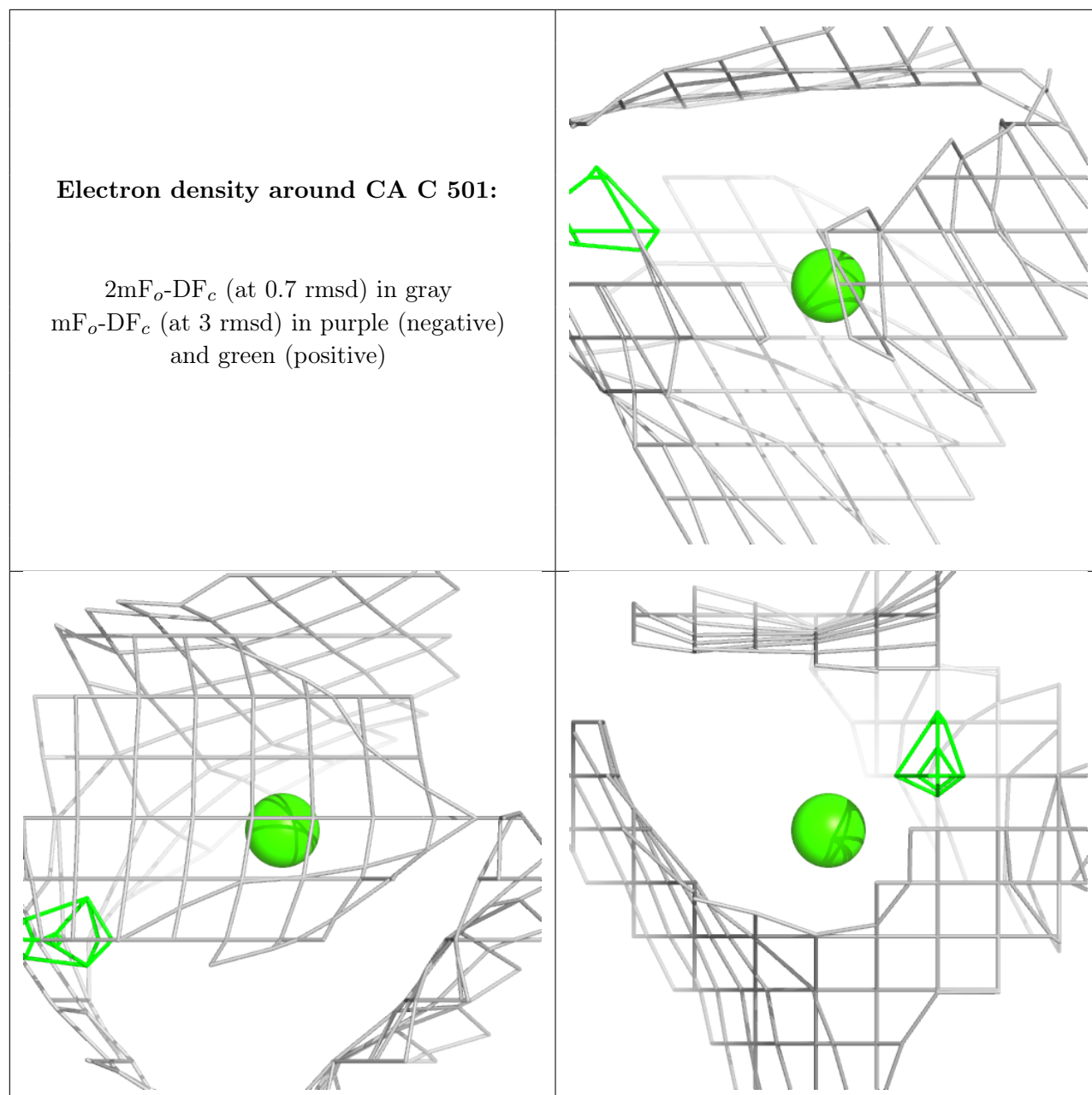




Electron density around CA A 501:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.