



Full wwPDB EM Validation Report ⓘ

Mar 24, 2026 – 10:11 PM UTC

PDB ID : 3GZT / pdb_00003gzt
EMDB ID : EMD-1571
Title : VP7 recoated rotavirus DLP
Authors : Chen, J.Z.; Settembre, E.C.; Harrison, S.C.; Grigorieff, N.
Deposited on : 2009-04-07
Resolution : 3.80 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

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>.

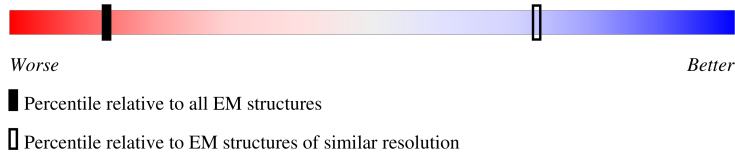
The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : **FAILED**
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

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ELECTRON MICROSCOPY

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	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Q-score	25397	520 (5.00 - 6.00)

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 26537 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Outer capsid glycoprotein VP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	F	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	G	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	H	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	I	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	J	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	K	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	L	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	M	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	N	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	O	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	P	255	Total 2011	C 1277	N 314	O 404	S 16	0	0
1	Q	255	Total 2011	C 1277	N 314	O 404	S 16	0	0

There are 13 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	171	THR	ALA	variant	UNP P12476
F	171	THR	ALA	variant	UNP P12476
G	171	THR	ALA	variant	UNP P12476
H	171	THR	ALA	variant	UNP P12476

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Chain	Residue	Modelled	Actual	Comment	Reference
I	171	THR	ALA	variant	UNP P12476
J	171	THR	ALA	variant	UNP P12476
K	171	THR	ALA	variant	UNP P12476
L	171	THR	ALA	variant	UNP P12476
M	171	THR	ALA	variant	UNP P12476
N	171	THR	ALA	variant	UNP P12476
O	171	THR	ALA	variant	UNP P12476
P	171	THR	ALA	variant	UNP P12476
Q	171	THR	ALA	variant	UNP P12476

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



Mol	Chain	Residues	Atoms				AltConf	Trace
2	A	2	Total	C	N	O	0	0
			28	16	2	10		
2	C	2	Total	C	N	O	0	0
			28	16	2	10		
2	D	2	Total	C	N	O	0	0
			28	16	2	10		
2	E	2	Total	C	N	O	0	0
			28	16	2	10		
2	R	2	Total	C	N	O	0	0
			28	16	2	10		
2	S	2	Total	C	N	O	0	0
			28	16	2	10		
2	T	2	Total	C	N	O	0	0
			28	16	2	10		
2	U	2	Total	C	N	O	0	0
			28	16	2	10		
2	V	2	Total	C	N	O	0	0
			28	16	2	10		
2	W	2	Total	C	N	O	0	0
			28	16	2	10		
2	X	2	Total	C	N	O	0	0
			28	16	2	10		
2	Y	2	Total	C	N	O	0	0
			28	16	2	10		

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	Z	2	Total	C	N	O	0	0
			28	16	2	10		

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
3	B	4	Total	Ca	0
			4	4	
3	F	2	Total	Ca	0
			2	2	
3	G	2	Total	Ca	0
			2	2	
3	H	2	Total	Ca	0
			2	2	
3	I	2	Total	Ca	0
			2	2	
3	J	2	Total	Ca	0
			2	2	
3	K	2	Total	Ca	0
			2	2	
3	L	2	Total	Ca	0
			2	2	
3	M	2	Total	Ca	0
			2	2	
3	N	2	Total	Ca	0
			2	2	
3	O	2	Total	Ca	0
			2	2	
3	P	2	Total	Ca	0
			2	2	
3	Q	3	Total	Ca	0
			3	3	
3	X	1	Total	Ca	0
			1	1	

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3 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	3780	Depositor
Resolution determination method	Not provided	
CTF correction method	individual particle	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	25	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	58168	Depositor
Image detector	GENERIC FILM	Depositor
Maximum map value	7.179	Depositor
Minimum map value	-3.263	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	986.4, 986.4, 986.4	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.233, 1.233, 1.233	Depositor

4 Model quality [i](#)

4.1 Standard geometry [i](#)

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4.2 Too-close contacts [i](#)

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4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

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4.3.2 Protein sidechains [i](#)

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4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

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

4.5 Carbohydrates [i](#)

26 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
2	NAG	A	1	2	14,14,15	0.61	0	17,19,21	1.44	2 (11%)
2	NAG	A	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	C	1	2	14,14,15	0.63	0	17,19,21	1.45	2 (11%)
2	NAG	C	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.73	5 (29%)
2	NAG	D	1	2	14,14,15	0.62	0	17,19,21	1.44	2 (11%)
2	NAG	D	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.73	5 (29%)
2	NAG	E	1	2	14,14,15	0.60	0	17,19,21	1.44	2 (11%)
2	NAG	E	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.73	5 (29%)
2	NAG	R	1	2	14,14,15	0.60	0	17,19,21	1.44	2 (11%)
2	NAG	R	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	S	1	2	14,14,15	0.60	0	17,19,21	1.43	2 (11%)
2	NAG	S	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	T	1	2	14,14,15	0.64	0	17,19,21	1.43	2 (11%)
2	NAG	T	2	2	14,14,15	1.06	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	U	1	2	14,14,15	0.61	0	17,19,21	1.44	2 (11%)
2	NAG	U	2	2	14,14,15	1.07	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	V	1	2	14,14,15	0.62	0	17,19,21	1.43	2 (11%)
2	NAG	V	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	W	1	2	14,14,15	0.62	0	17,19,21	1.44	2 (11%)
2	NAG	W	2	2	14,14,15	1.07	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	X	1	2	14,14,15	0.62	0	17,19,21	1.44	2 (11%)
2	NAG	X	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	Y	1	2	14,14,15	0.61	0	17,19,21	1.44	2 (11%)
2	NAG	Y	2	2	14,14,15	1.09	1 (7%)	17,19,21	1.74	5 (29%)
2	NAG	Z	1	2	14,14,15	0.60	0	17,19,21	1.43	2 (11%)
2	NAG	Z	2	2	14,14,15	1.08	1 (7%)	17,19,21	1.74	5 (29%)

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
2	NAG	A	1	2	-	0/6/23/26	0/1/1/1
2	NAG	A	2	2	-	1/6/23/26	0/1/1/1
2	NAG	C	1	2	-	0/6/23/26	0/1/1/1
2	NAG	C	2	2	-	1/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	D	1	2	-	0/6/23/26	0/1/1/1
2	NAG	D	2	2	-	2/6/23/26	0/1/1/1
2	NAG	E	1	2	-	0/6/23/26	0/1/1/1
2	NAG	E	2	2	-	1/6/23/26	0/1/1/1
2	NAG	R	1	2	-	0/6/23/26	0/1/1/1
2	NAG	R	2	2	-	1/6/23/26	0/1/1/1
2	NAG	S	1	2	-	0/6/23/26	0/1/1/1
2	NAG	S	2	2	-	1/6/23/26	0/1/1/1
2	NAG	T	1	2	-	0/6/23/26	0/1/1/1
2	NAG	T	2	2	-	1/6/23/26	0/1/1/1
2	NAG	U	1	2	-	0/6/23/26	0/1/1/1
2	NAG	U	2	2	-	1/6/23/26	0/1/1/1
2	NAG	V	1	2	-	0/6/23/26	0/1/1/1
2	NAG	V	2	2	-	1/6/23/26	0/1/1/1
2	NAG	W	1	2	-	0/6/23/26	0/1/1/1
2	NAG	W	2	2	-	1/6/23/26	0/1/1/1
2	NAG	X	1	2	-	0/6/23/26	0/1/1/1
2	NAG	X	2	2	-	1/6/23/26	0/1/1/1
2	NAG	Y	1	2	-	0/6/23/26	0/1/1/1
2	NAG	Y	2	2	-	1/6/23/26	0/1/1/1
2	NAG	Z	1	2	-	0/6/23/26	0/1/1/1
2	NAG	Z	2	2	-	1/6/23/26	0/1/1/1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	2	NAG	C1-C2	3.05	1.56	1.52
2	C	2	NAG	C1-C2	3.04	1.56	1.52
2	R	2	NAG	C1-C2	3.02	1.56	1.52
2	V	2	NAG	C1-C2	3.00	1.56	1.52
2	Y	2	NAG	C1-C2	3.00	1.56	1.52
2	Z	2	NAG	C1-C2	3.00	1.56	1.52
2	A	2	NAG	C1-C2	2.99	1.56	1.52
2	D	2	NAG	C1-C2	2.99	1.56	1.52
2	S	2	NAG	C1-C2	2.97	1.56	1.52
2	E	2	NAG	C1-C2	2.95	1.56	1.52
2	W	2	NAG	C1-C2	2.94	1.56	1.52
2	U	2	NAG	C1-C2	2.94	1.56	1.52
2	T	2	NAG	C1-C2	2.93	1.56	1.52

All (91) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	U	2	NAG	C2-N2-C7	3.88	128.10	122.90
2	V	2	NAG	C2-N2-C7	3.87	128.09	122.90
2	T	2	NAG	C2-N2-C7	3.87	128.09	122.90
2	Z	2	NAG	C2-N2-C7	3.87	128.09	122.90
2	C	2	NAG	C2-N2-C7	3.87	128.09	122.90
2	S	2	NAG	C2-N2-C7	3.87	128.08	122.90
2	A	2	NAG	C2-N2-C7	3.85	128.06	122.90
2	R	2	NAG	C2-N2-C7	3.83	128.04	122.90
2	W	2	NAG	C2-N2-C7	3.83	128.04	122.90
2	D	2	NAG	C2-N2-C7	3.82	128.03	122.90
2	E	2	NAG	C2-N2-C7	3.82	128.02	122.90
2	X	2	NAG	C2-N2-C7	3.82	128.02	122.90
2	Y	2	NAG	C2-N2-C7	3.82	128.01	122.90
2	C	1	NAG	C1-O5-C5	3.71	117.16	112.19
2	W	1	NAG	C1-O5-C5	3.71	117.16	112.19
2	X	1	NAG	C1-O5-C5	3.71	117.15	112.19
2	Y	1	NAG	C1-O5-C5	3.68	117.12	112.19
2	A	1	NAG	C1-O5-C5	3.67	117.10	112.19
2	D	1	NAG	C1-O5-C5	3.67	117.10	112.19
2	R	1	NAG	C1-O5-C5	3.66	117.10	112.19
2	T	1	NAG	C1-O5-C5	3.66	117.09	112.19
2	U	1	NAG	C1-O5-C5	3.66	117.09	112.19
2	E	1	NAG	C1-O5-C5	3.66	117.09	112.19
2	V	1	NAG	C1-O5-C5	3.65	117.08	112.19
2	S	1	NAG	C1-O5-C5	3.63	117.06	112.19
2	Z	1	NAG	C1-O5-C5	3.61	117.03	112.19
2	C	1	NAG	O5-C1-C2	-3.28	106.22	111.29
2	U	1	NAG	O5-C1-C2	-3.24	106.28	111.29
2	S	1	NAG	O5-C1-C2	-3.24	106.28	111.29
2	X	1	NAG	O5-C1-C2	-3.23	106.29	111.29
2	E	1	NAG	O5-C1-C2	-3.23	106.30	111.29
2	D	1	NAG	O5-C1-C2	-3.23	106.30	111.29
2	W	1	NAG	O5-C1-C2	-3.23	106.30	111.29
2	A	1	NAG	O5-C1-C2	-3.22	106.31	111.29
2	R	1	NAG	O5-C1-C2	-3.21	106.32	111.29
2	Y	1	NAG	O5-C1-C2	-3.20	106.34	111.29
2	T	1	NAG	O5-C1-C2	-3.20	106.35	111.29
2	V	1	NAG	O5-C1-C2	-3.19	106.35	111.29
2	Z	1	NAG	O5-C1-C2	-3.19	106.36	111.29
2	V	2	NAG	C4-C3-C2	2.76	115.06	111.02
2	X	2	NAG	C4-C3-C2	2.75	115.05	111.02
2	S	2	NAG	C4-C3-C2	2.72	115.01	111.02
2	A	2	NAG	C4-C3-C2	2.72	115.01	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	2	NAG	C4-C3-C2	2.72	115.01	111.02
2	D	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	E	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	R	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	W	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	C	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	T	2	NAG	O7-C7-C8	-2.70	117.24	122.05
2	Z	2	NAG	C4-C3-C2	2.70	114.97	111.02
2	W	2	NAG	O7-C7-C8	-2.69	117.26	122.05
2	U	2	NAG	C4-C3-C2	2.69	114.96	111.02
2	R	2	NAG	C1-O5-C5	2.69	115.79	112.19
2	Y	2	NAG	O7-C7-C8	-2.68	117.28	122.05
2	Y	2	NAG	C4-C3-C2	2.68	114.95	111.02
2	Z	2	NAG	O7-C7-C8	-2.68	117.29	122.05
2	W	2	NAG	O7-C7-N2	2.67	126.71	121.98
2	X	2	NAG	O7-C7-C8	-2.67	117.29	122.05
2	A	2	NAG	O7-C7-C8	-2.67	117.30	122.05
2	Y	2	NAG	C1-O5-C5	2.67	115.76	112.19
2	V	2	NAG	O7-C7-C8	-2.67	117.31	122.05
2	U	2	NAG	O7-C7-C8	-2.66	117.32	122.05
2	C	2	NAG	O7-C7-C8	-2.66	117.32	122.05
2	S	2	NAG	O7-C7-C8	-2.66	117.32	122.05
2	Y	2	NAG	O7-C7-N2	2.66	126.67	121.98
2	E	2	NAG	O7-C7-C8	-2.65	117.33	122.05
2	D	2	NAG	C1-O5-C5	2.65	115.74	112.19
2	X	2	NAG	C1-O5-C5	2.65	115.74	112.19
2	Z	2	NAG	C1-O5-C5	2.65	115.74	112.19
2	W	2	NAG	C1-O5-C5	2.65	115.73	112.19
2	E	2	NAG	O7-C7-N2	2.64	126.65	121.98
2	D	2	NAG	O7-C7-C8	-2.64	117.35	122.05
2	R	2	NAG	O7-C7-C8	-2.64	117.36	122.05
2	S	2	NAG	C1-O5-C5	2.64	115.72	112.19
2	X	2	NAG	O7-C7-N2	2.63	126.63	121.98
2	A	2	NAG	C1-O5-C5	2.63	115.71	112.19
2	V	2	NAG	O7-C7-N2	2.63	126.63	121.98
2	U	2	NAG	O7-C7-N2	2.63	126.63	121.98
2	S	2	NAG	O7-C7-N2	2.63	126.63	121.98
2	A	2	NAG	O7-C7-N2	2.63	126.62	121.98
2	R	2	NAG	O7-C7-N2	2.63	126.62	121.98
2	T	2	NAG	O7-C7-N2	2.62	126.62	121.98
2	Z	2	NAG	O7-C7-N2	2.62	126.61	121.98
2	U	2	NAG	C1-O5-C5	2.62	115.70	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	2	NAG	C1-O5-C5	2.62	115.69	112.19
2	D	2	NAG	O7-C7-N2	2.61	126.59	121.98
2	V	2	NAG	C1-O5-C5	2.60	115.67	112.19
2	T	2	NAG	C1-O5-C5	2.60	115.67	112.19
2	E	2	NAG	C1-O5-C5	2.60	115.67	112.19
2	C	2	NAG	O7-C7-N2	2.58	126.53	121.98

There are no chirality outliers.

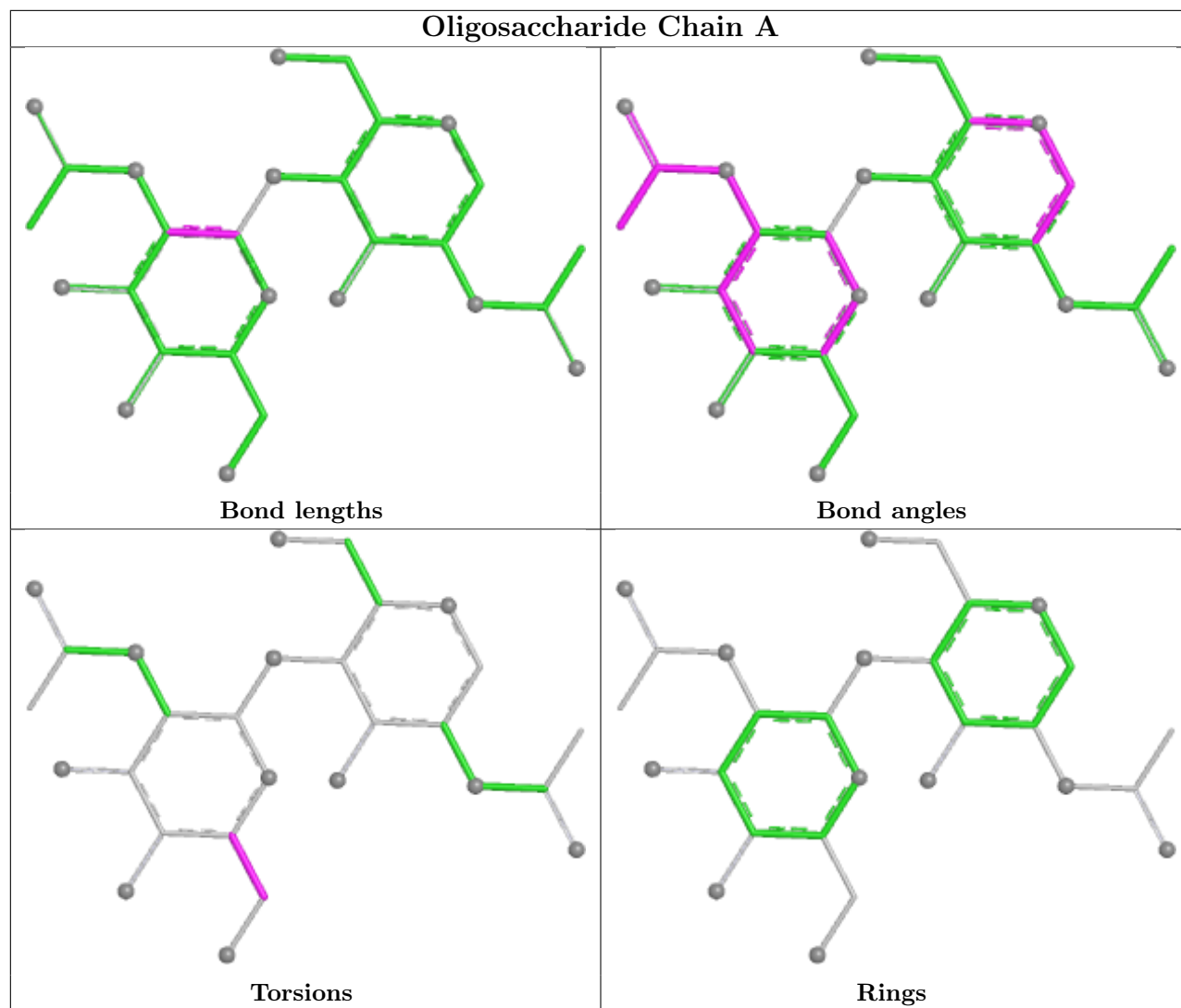
All (14) torsion outliers are listed below:

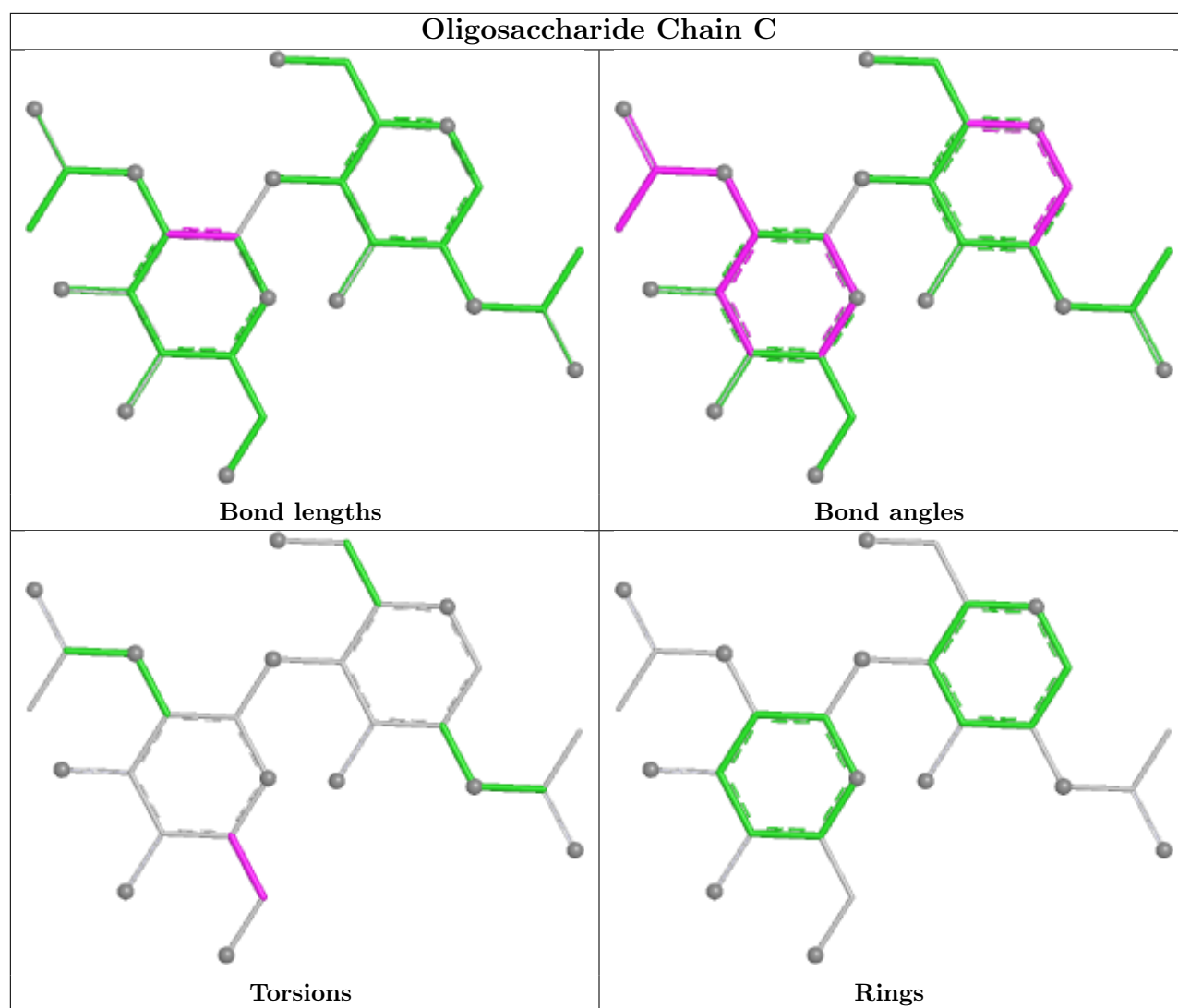
Mol	Chain	Res	Type	Atoms
2	A	2	NAG	O5-C5-C6-O6
2	C	2	NAG	O5-C5-C6-O6
2	D	2	NAG	O5-C5-C6-O6
2	R	2	NAG	O5-C5-C6-O6
2	S	2	NAG	O5-C5-C6-O6
2	T	2	NAG	O5-C5-C6-O6
2	U	2	NAG	O5-C5-C6-O6
2	V	2	NAG	O5-C5-C6-O6
2	W	2	NAG	O5-C5-C6-O6
2	X	2	NAG	O5-C5-C6-O6
2	Y	2	NAG	O5-C5-C6-O6
2	Z	2	NAG	O5-C5-C6-O6
2	E	2	NAG	O5-C5-C6-O6
2	D	2	NAG	C4-C5-C6-O6

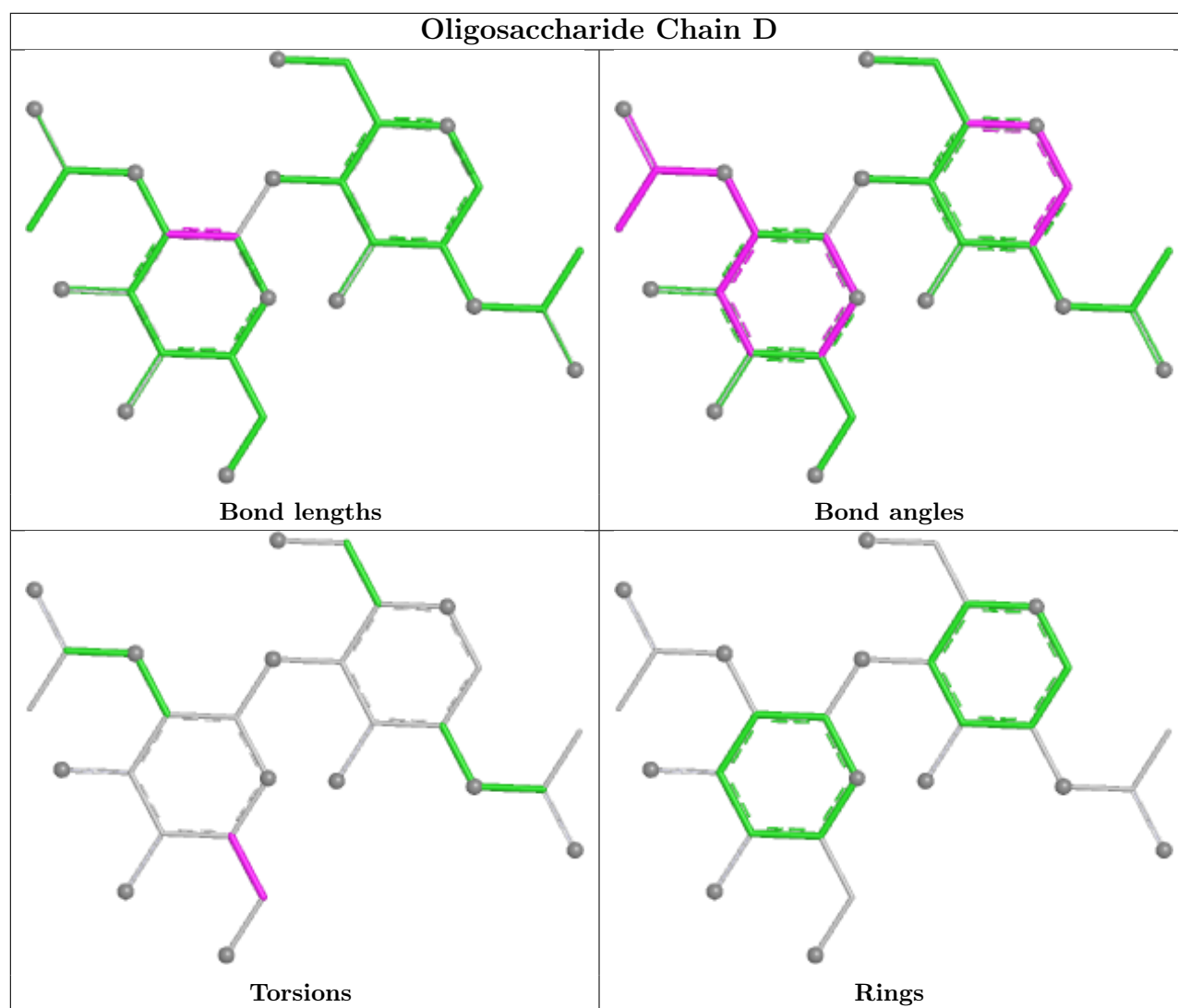
There are no ring outliers.

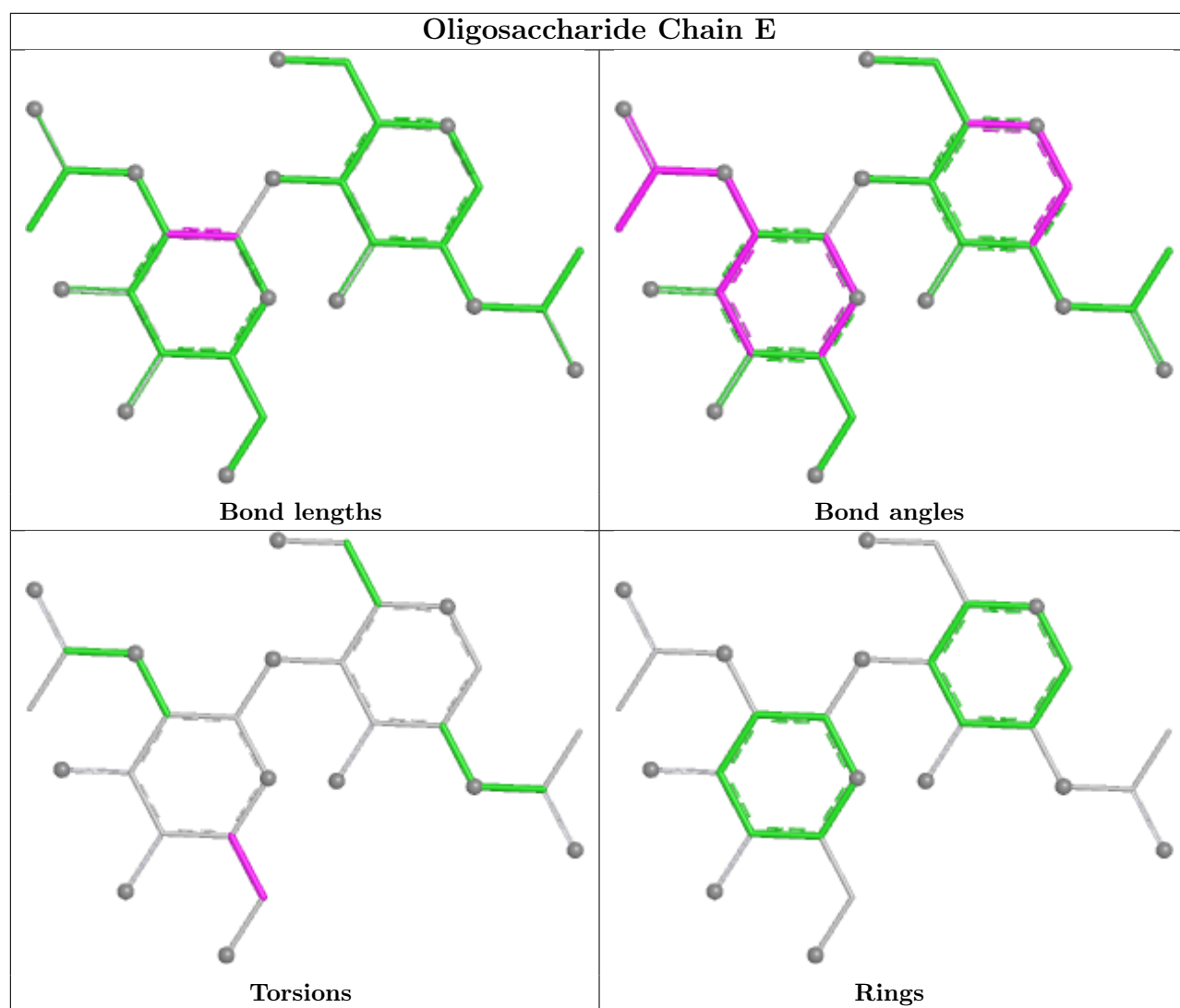
No monomer is involved in short contacts.

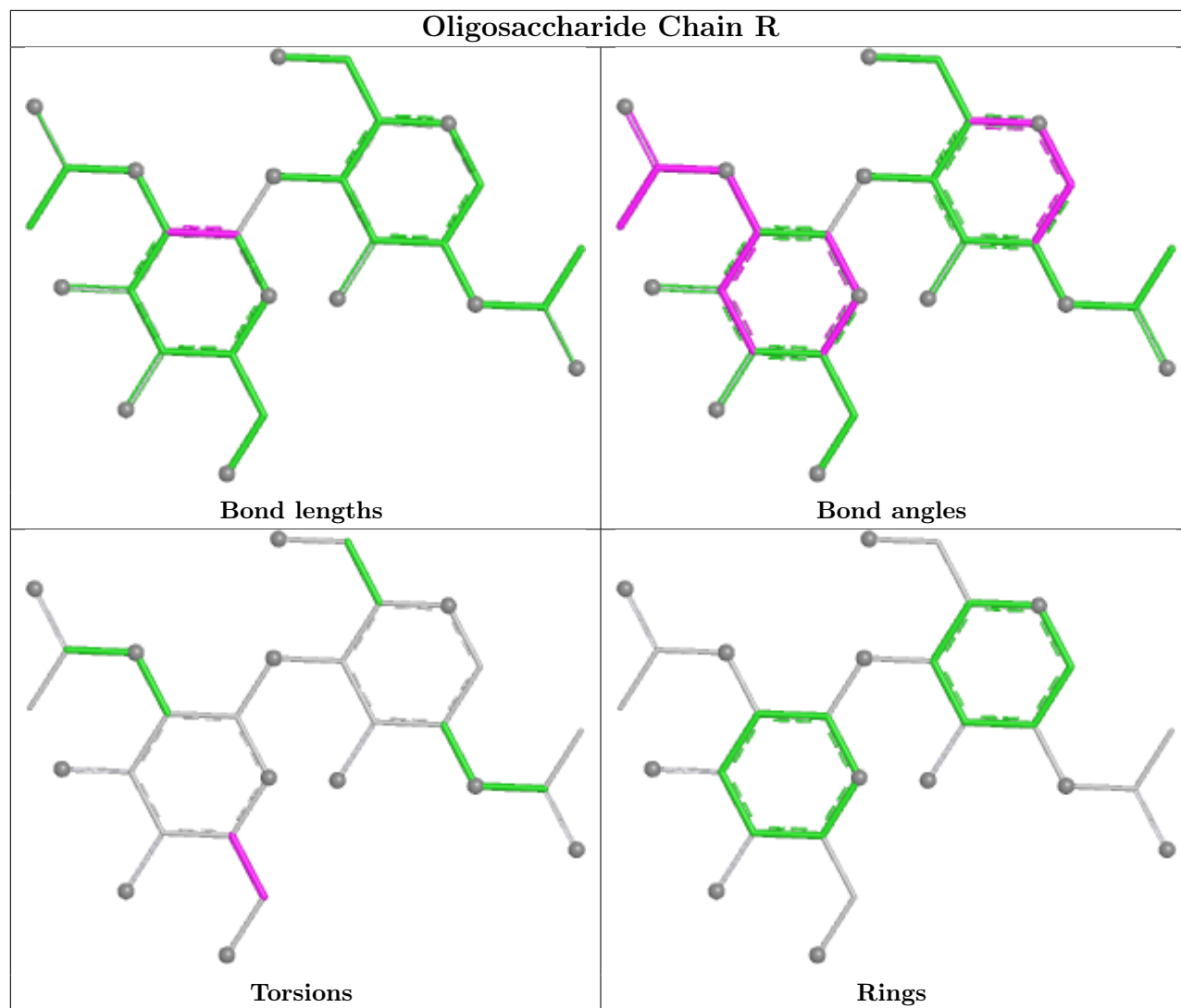
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

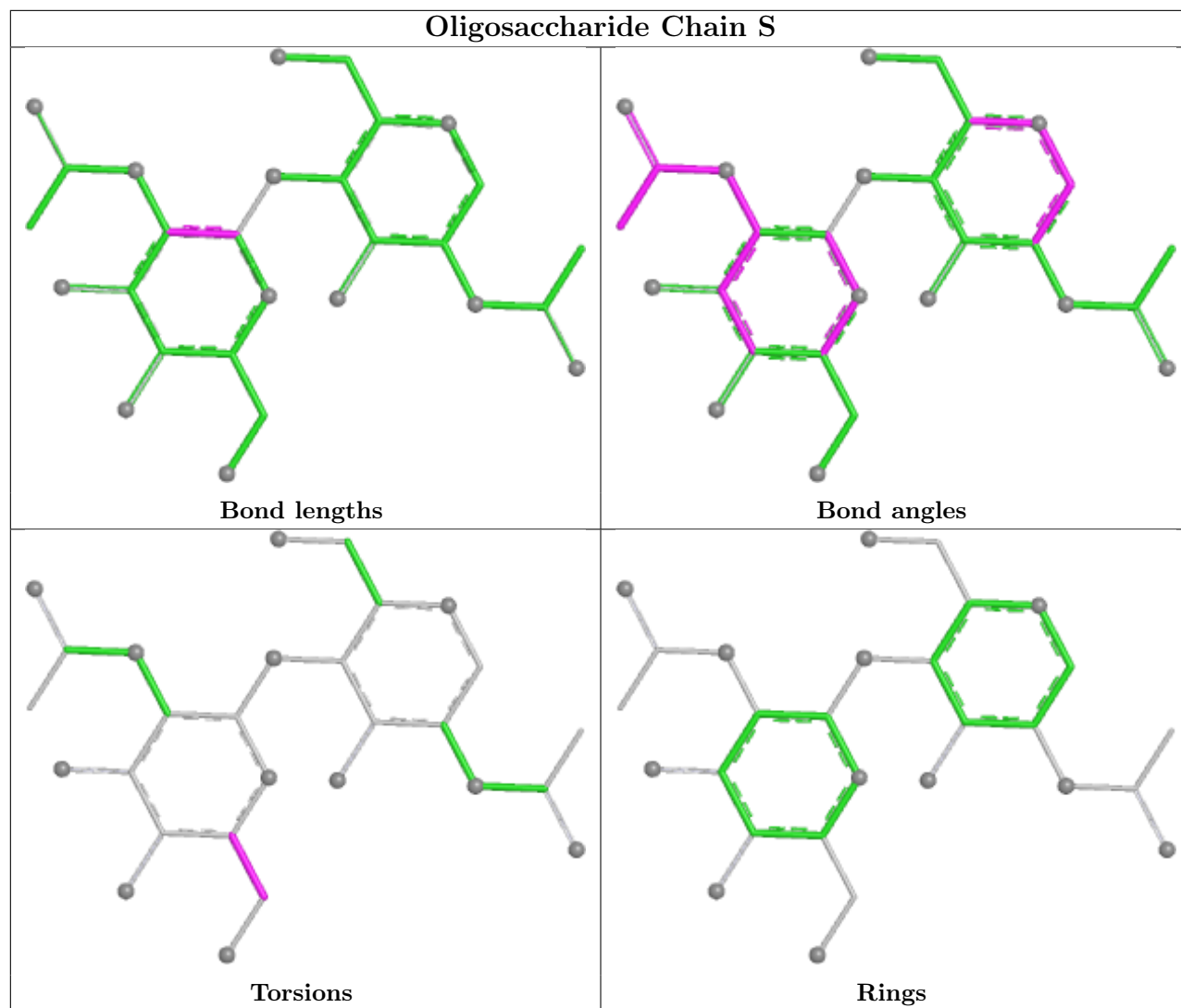


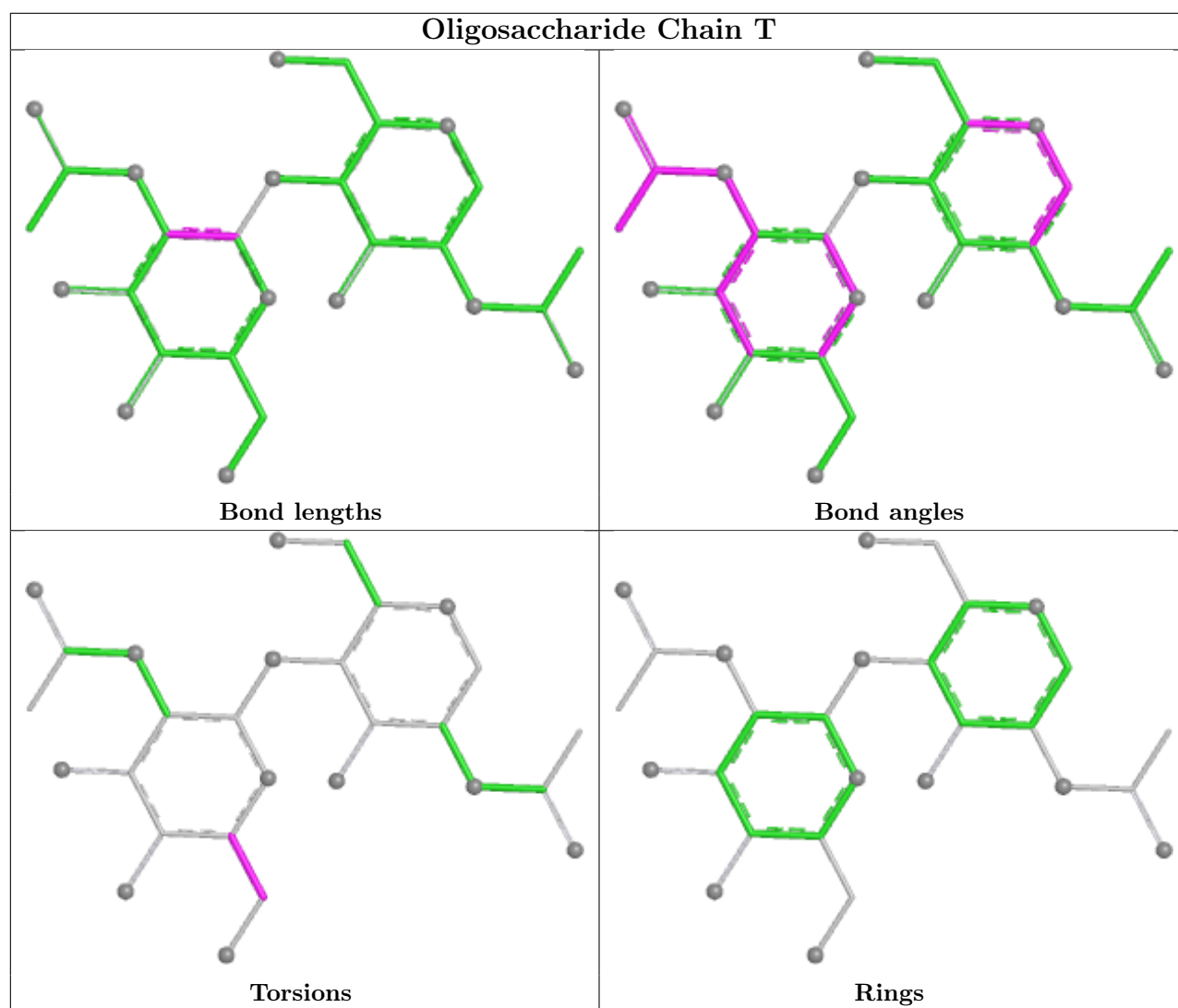


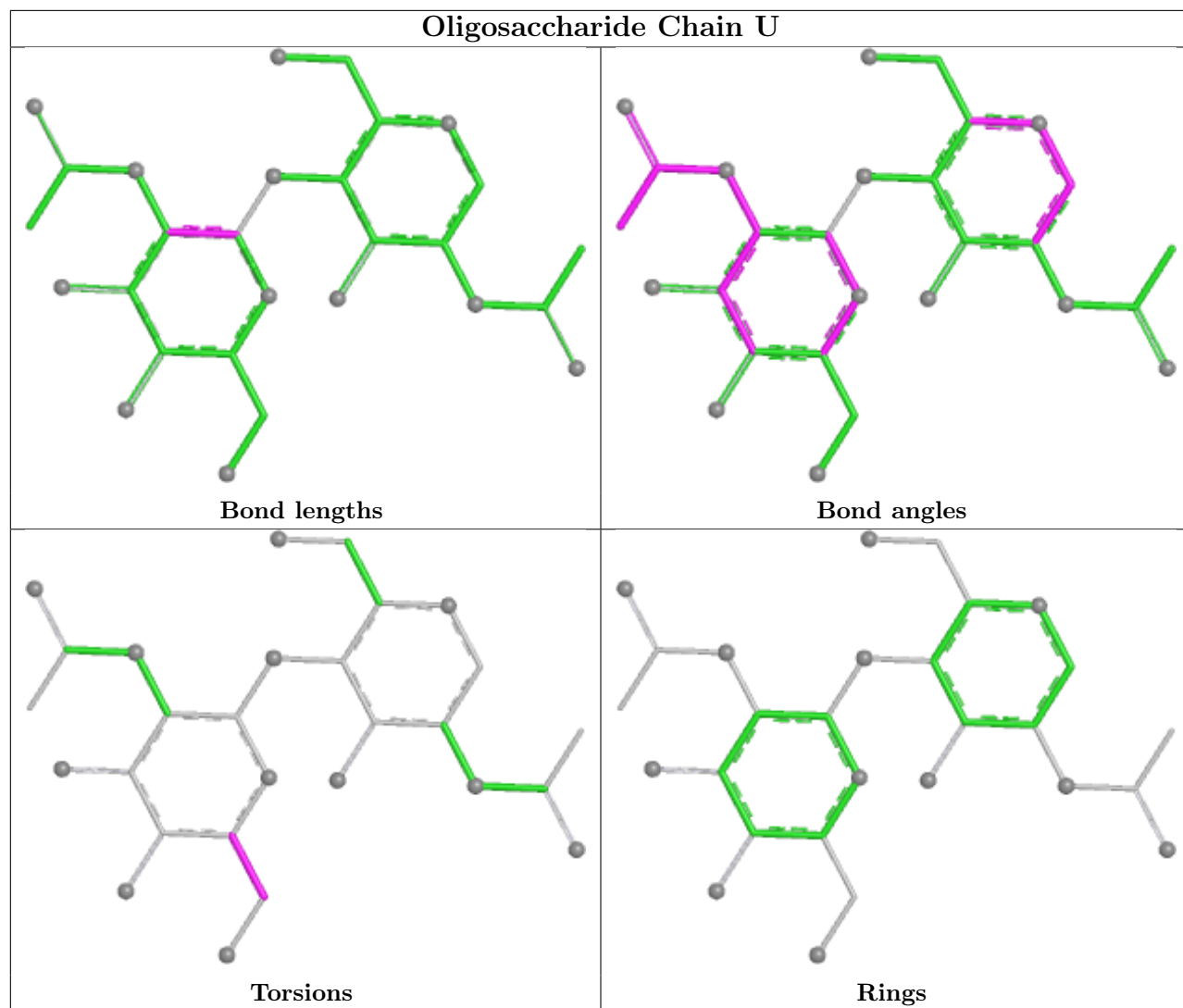


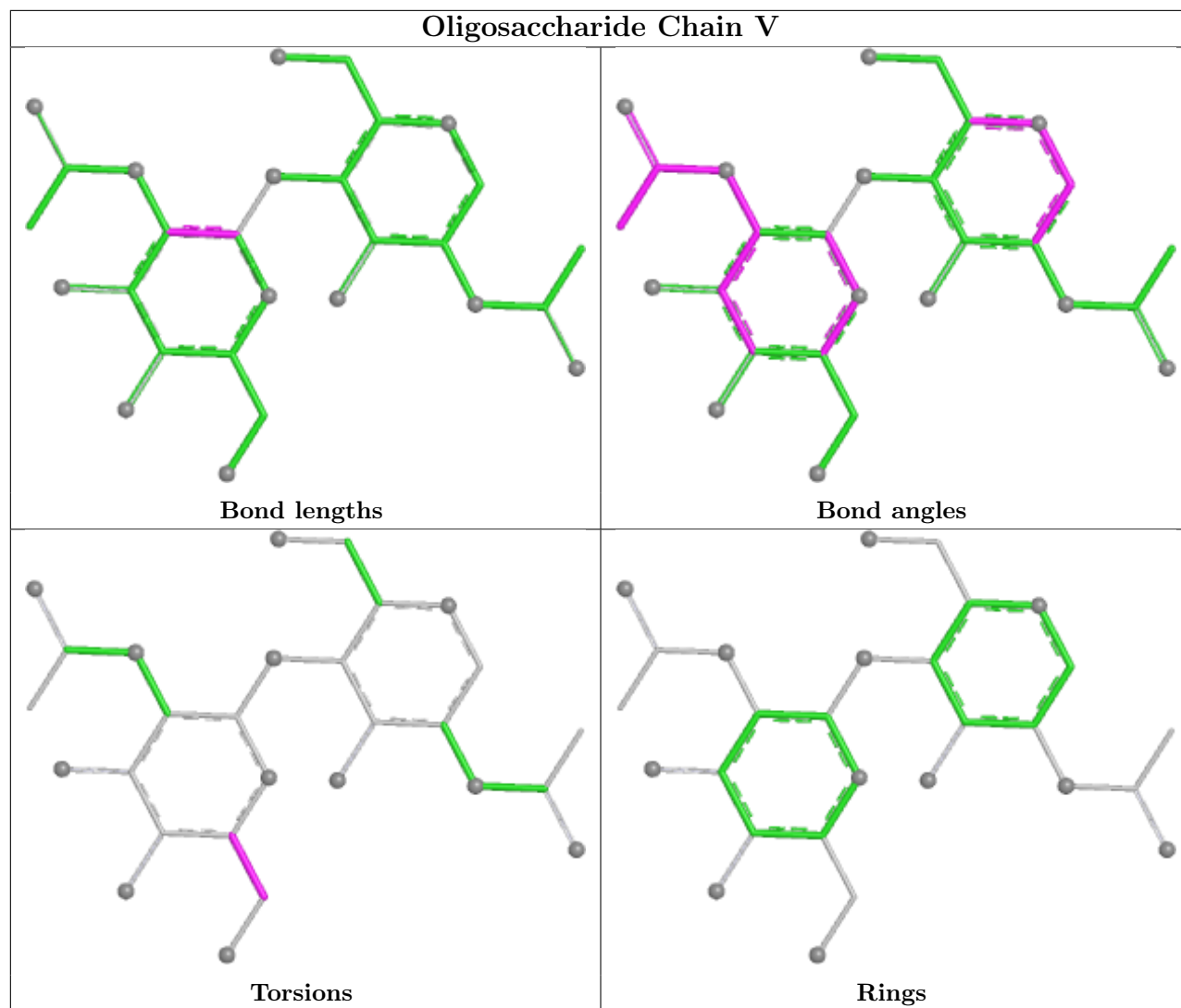


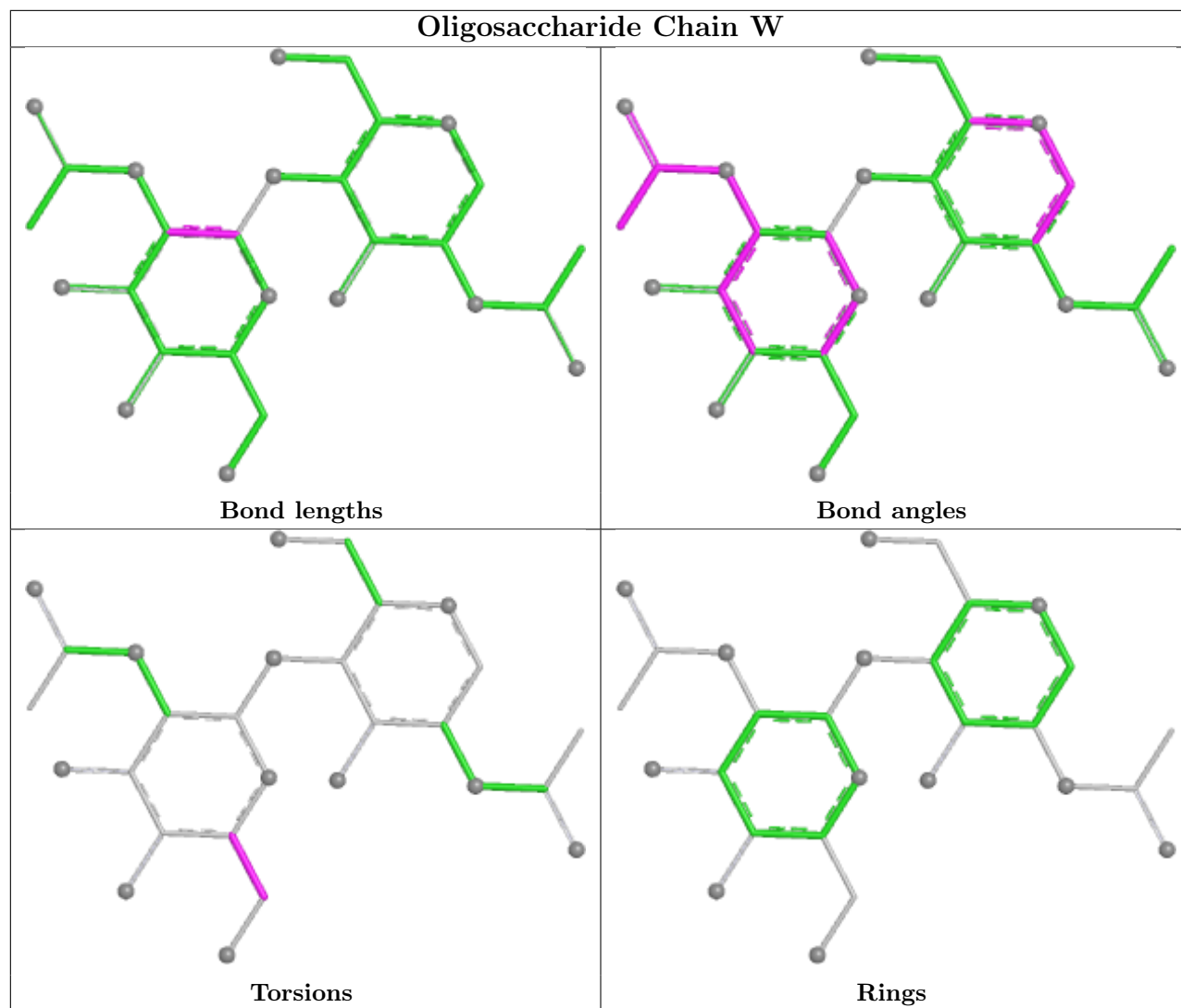


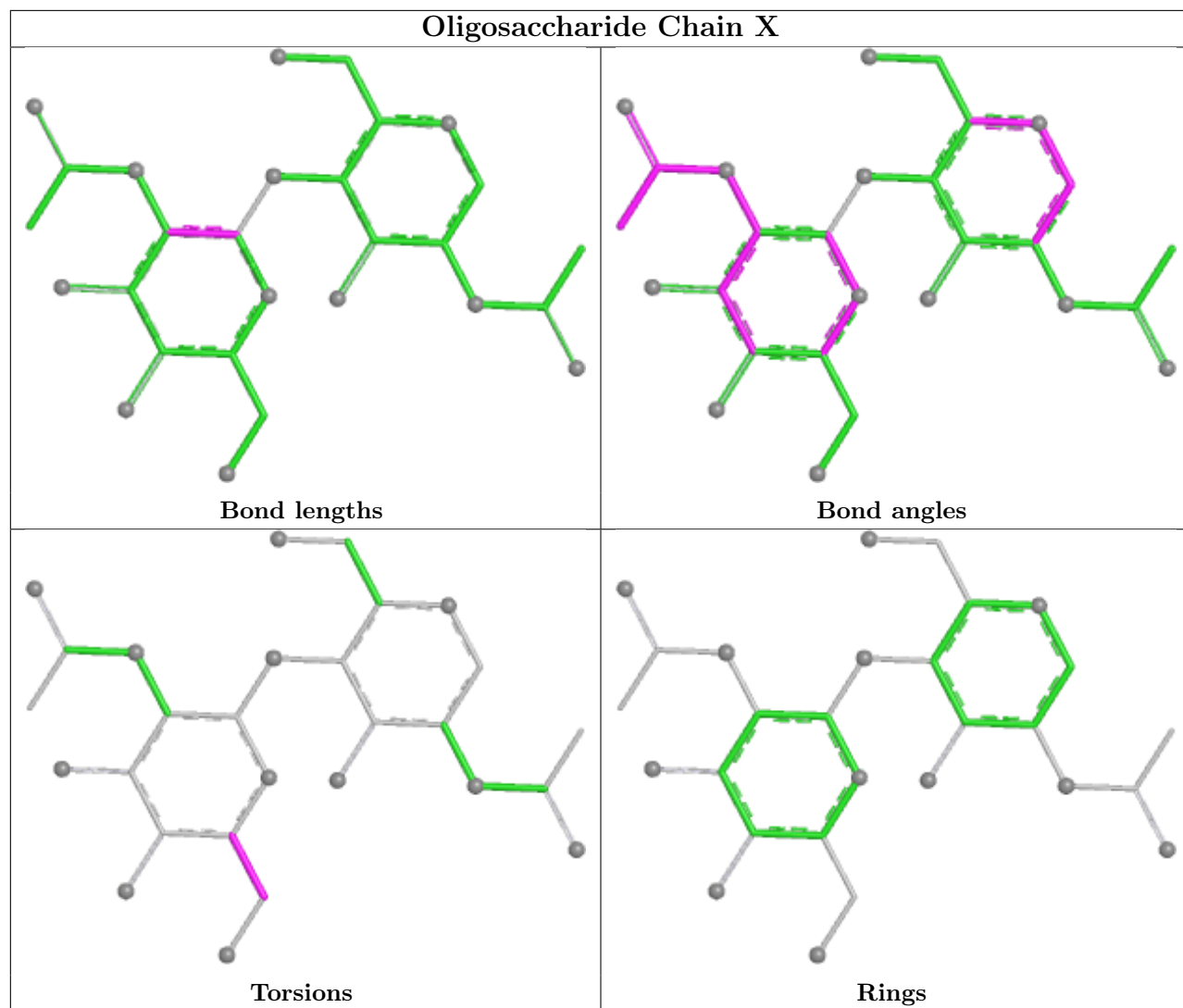


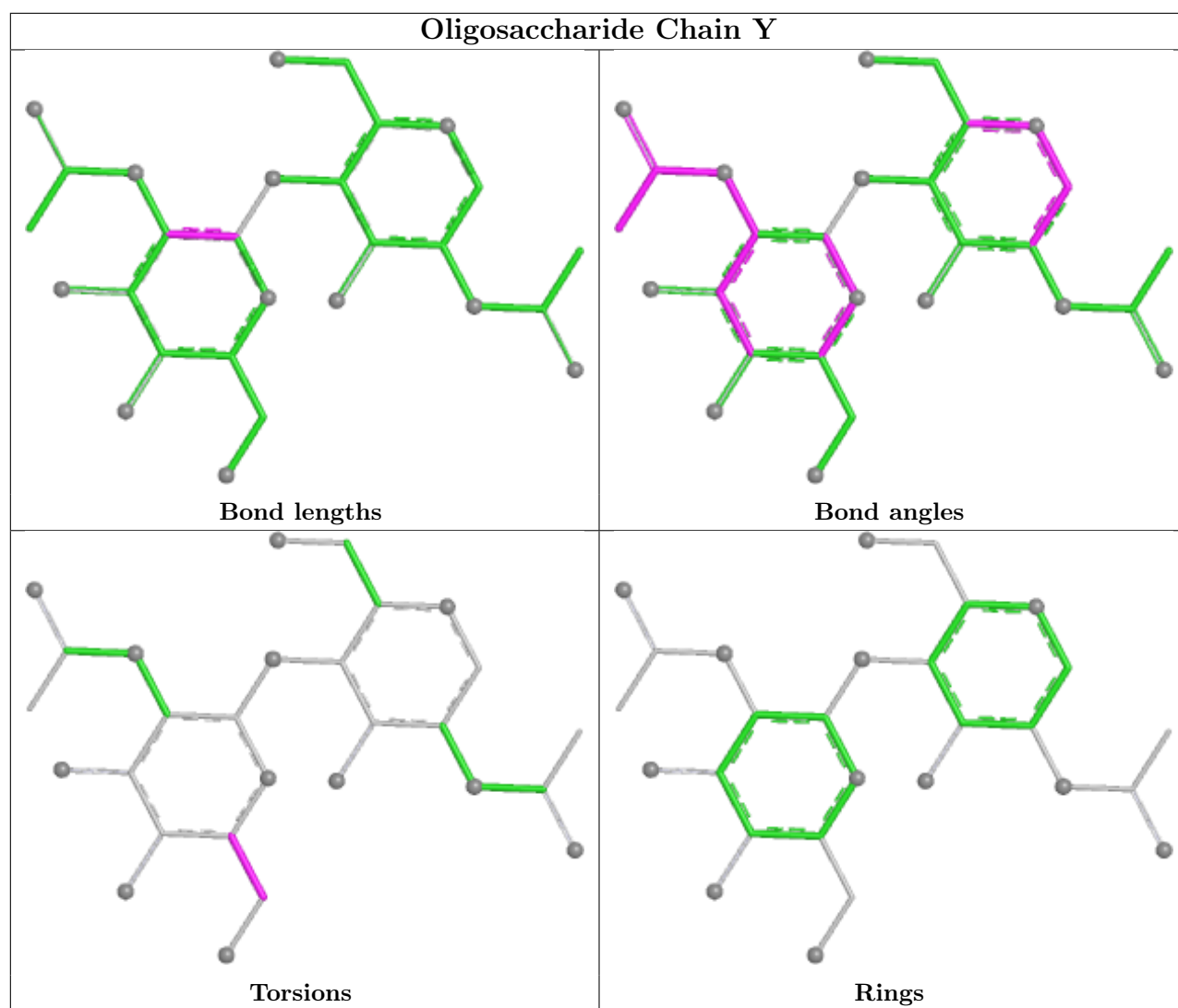


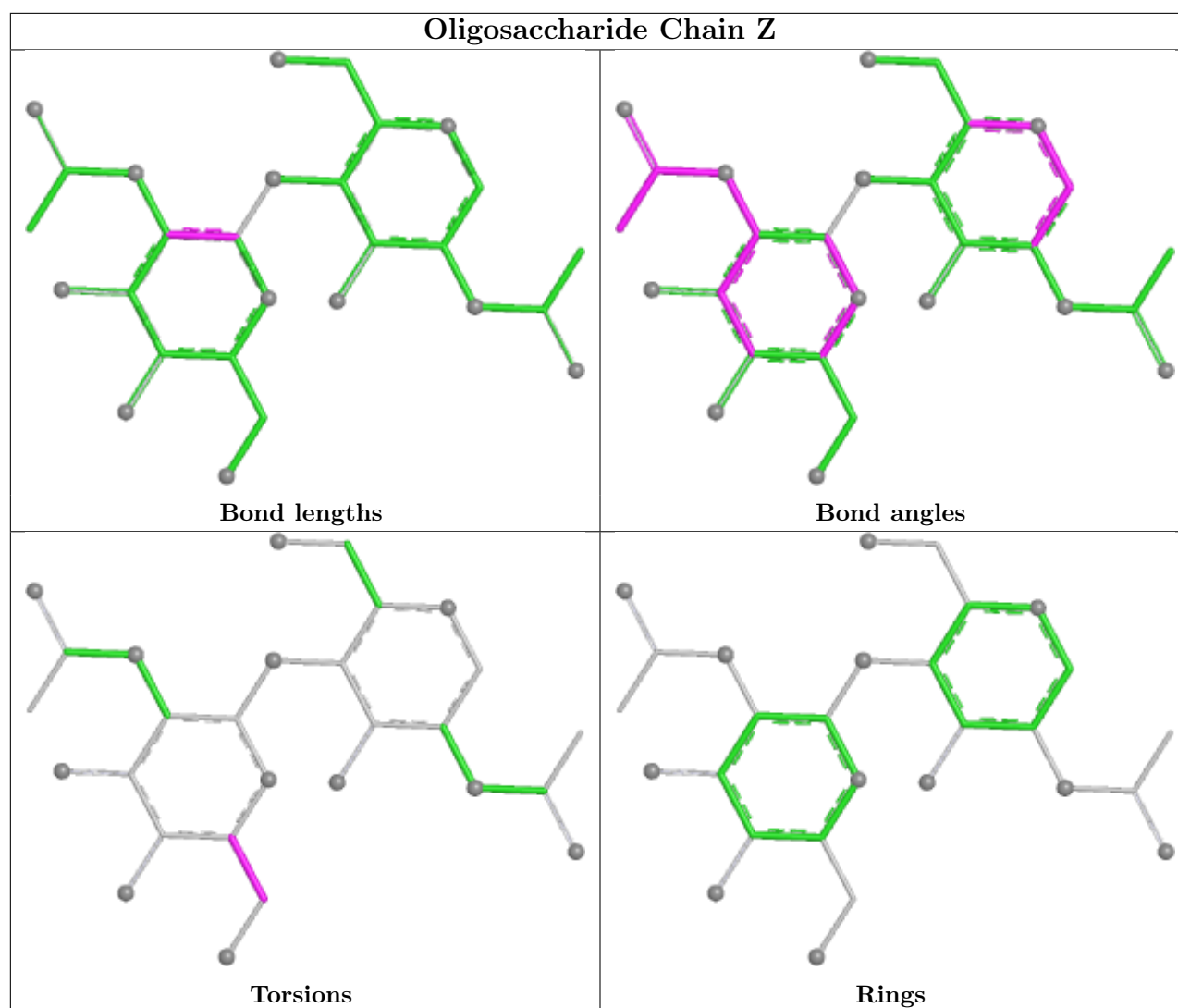












4.6 Ligand geometry [i](#)

Of 30 ligands modelled in this entry, 30 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.

4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	G	3
1	H	1
1	I	1
1	J	1
1	K	1
1	L	1
1	M	1
1	N	1
1	O	1
1	P	1
1	Q	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G	79:SER	C	80:THR	N	1.69
1	G	78:THR	C	79:SER	N	1.14
1	G	66:ALA	C	67:TYR	N	1.01
1	H	66:ALA	C	67:TYR	N	1.01
1	I	66:ALA	C	67:TYR	N	1.01
1	J	66:ALA	C	67:TYR	N	1.01
1	K	66:ALA	C	67:TYR	N	1.01
1	L	66:ALA	C	67:TYR	N	1.01
1	M	66:ALA	C	67:TYR	N	1.01
1	N	66:ALA	C	67:TYR	N	1.01
1	O	66:ALA	C	67:TYR	N	1.01
1	P	66:ALA	C	67:TYR	N	1.01
1	Q	66:ALA	C	67:TYR	N	1.01

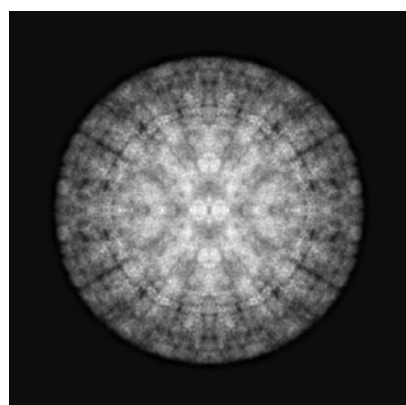
5 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1571. These allow visual inspection of the internal detail of the map and identification of artifacts.

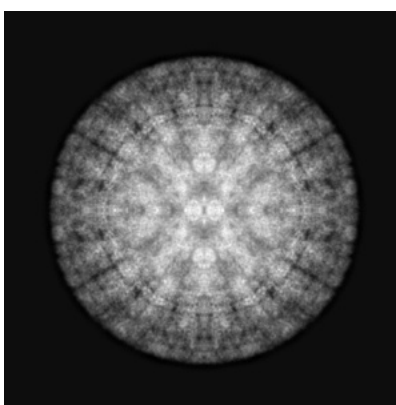
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

5.1 Orthogonal projections [i](#)

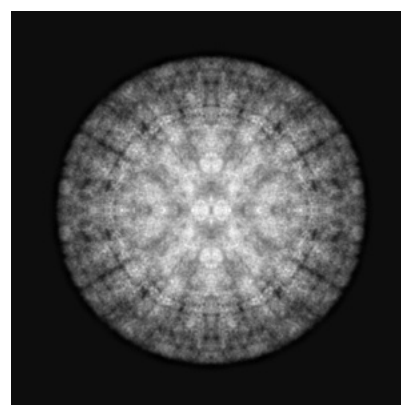
5.1.1 Primary map



X



Y

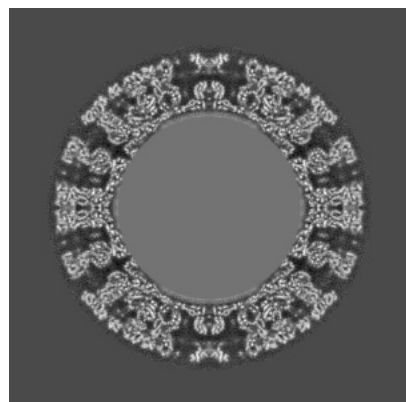


Z

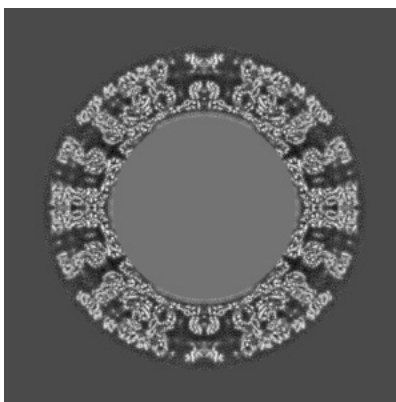
The images above show the map projected in three orthogonal directions.

5.2 Central slices [i](#)

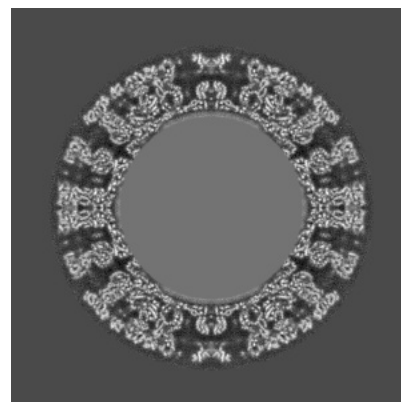
5.2.1 Primary map



X Index: 400



Y Index: 400

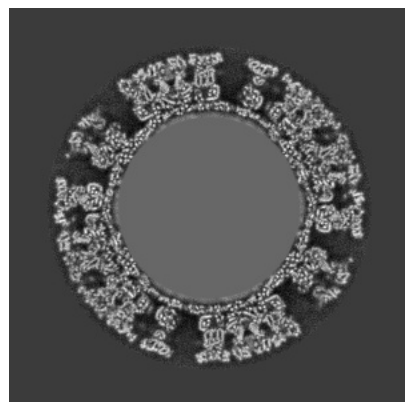


Z Index: 400

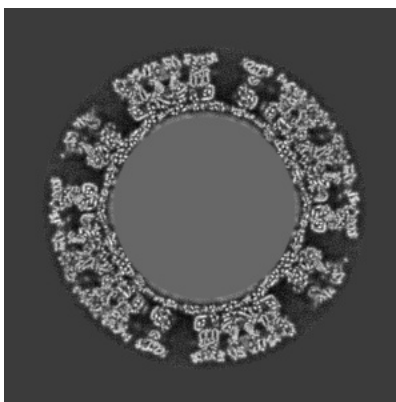
The images above show central slices of the map in three orthogonal directions.

5.3 Largest variance slices [i](#)

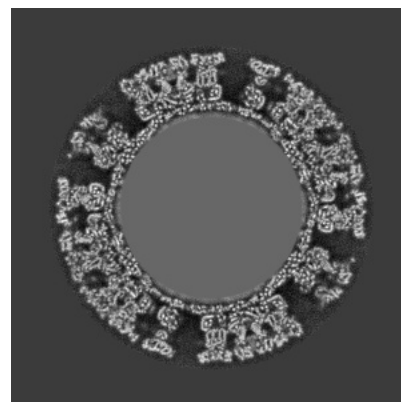
5.3.1 Primary map



X Index: 383



Y Index: 383

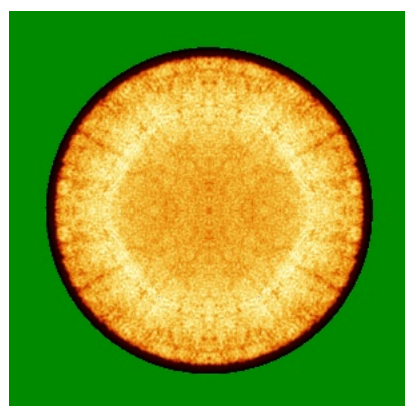


Z Index: 383

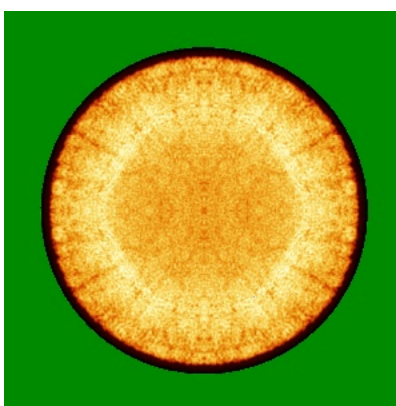
The images above show the largest variance slices of the map in three orthogonal directions.

5.4 Orthogonal standard-deviation projections (False-color) [i](#)

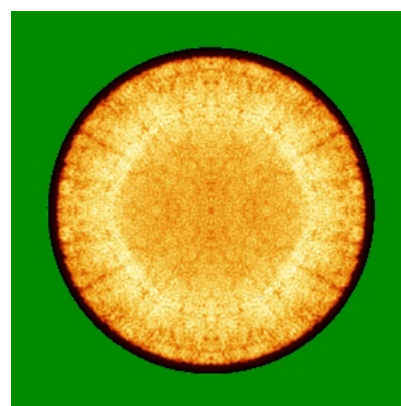
5.4.1 Primary map



X



Y

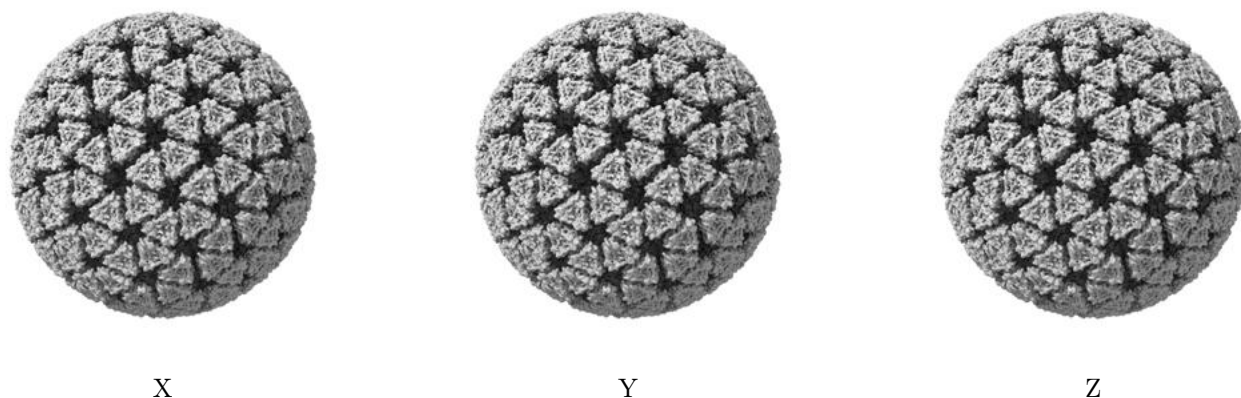


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

5.5 Orthogonal surface views [i](#)

5.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

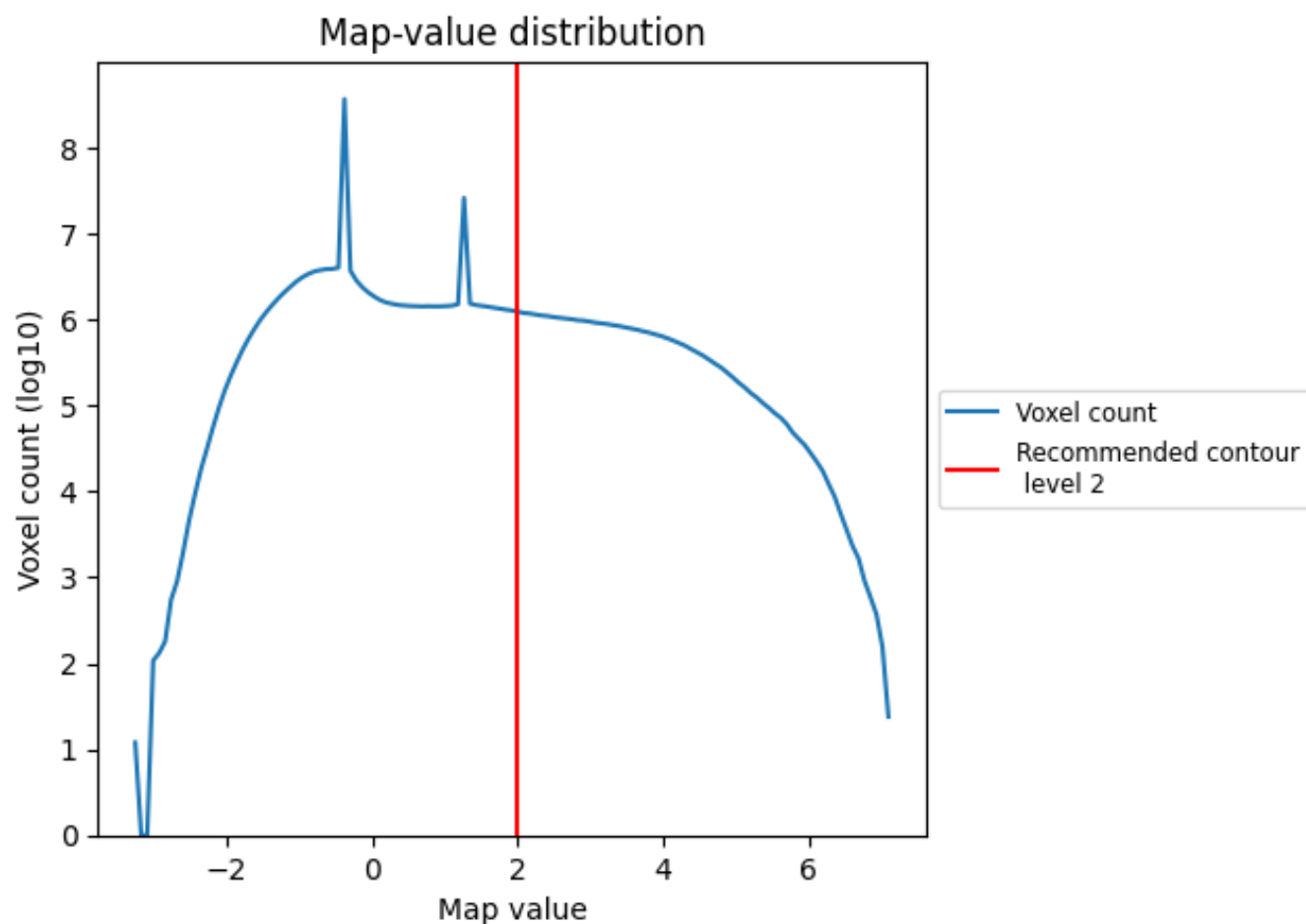
5.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

6 Map analysis [i](#)

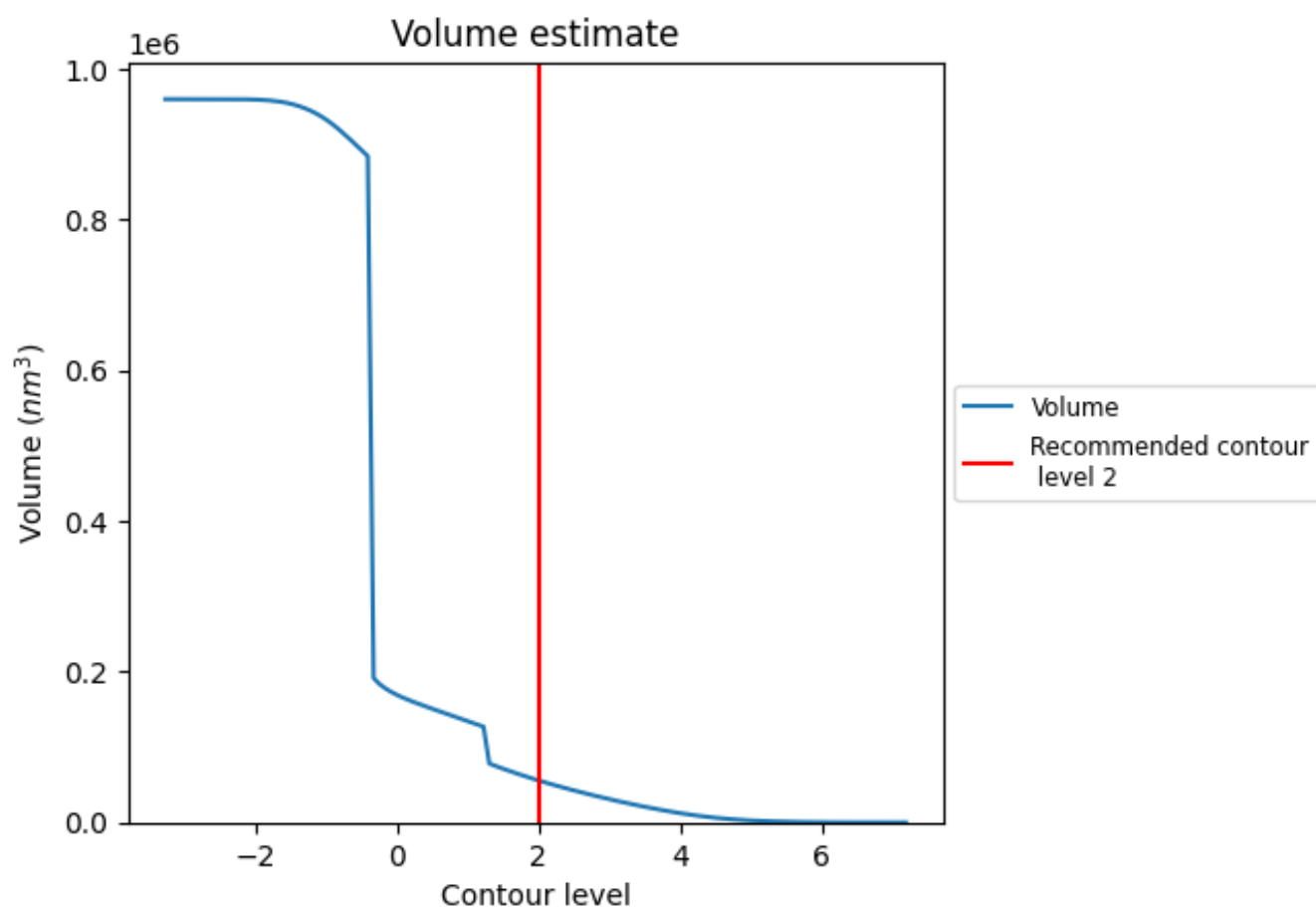
This section contains the results of statistical analysis of the map.

6.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

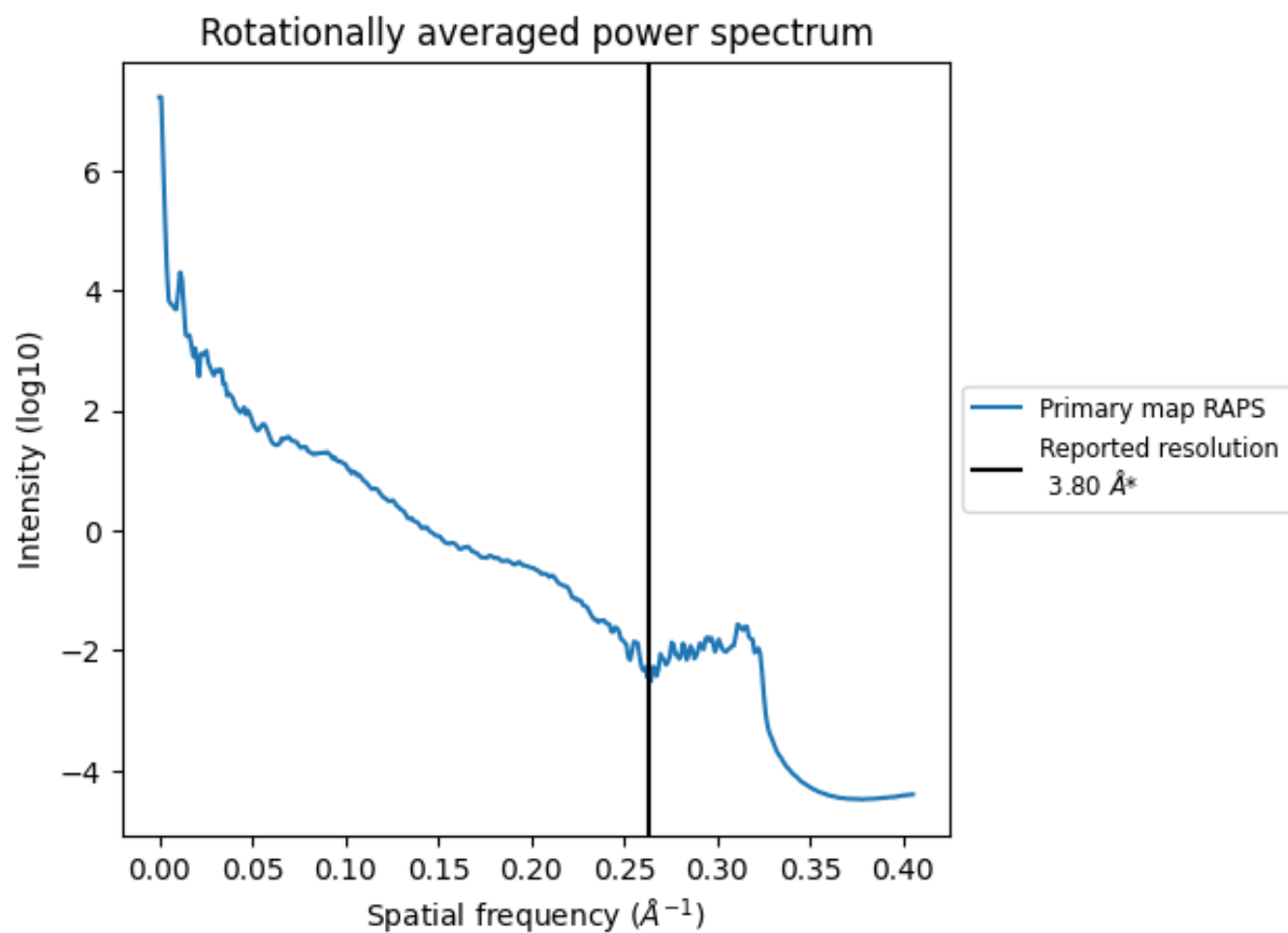
6.2 Volume estimate [i](#)



The volume at the recommended contour level is 55668 nm³; this corresponds to an approximate mass of 50287 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

6.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

7 Fourier-Shell correlation ⓘ

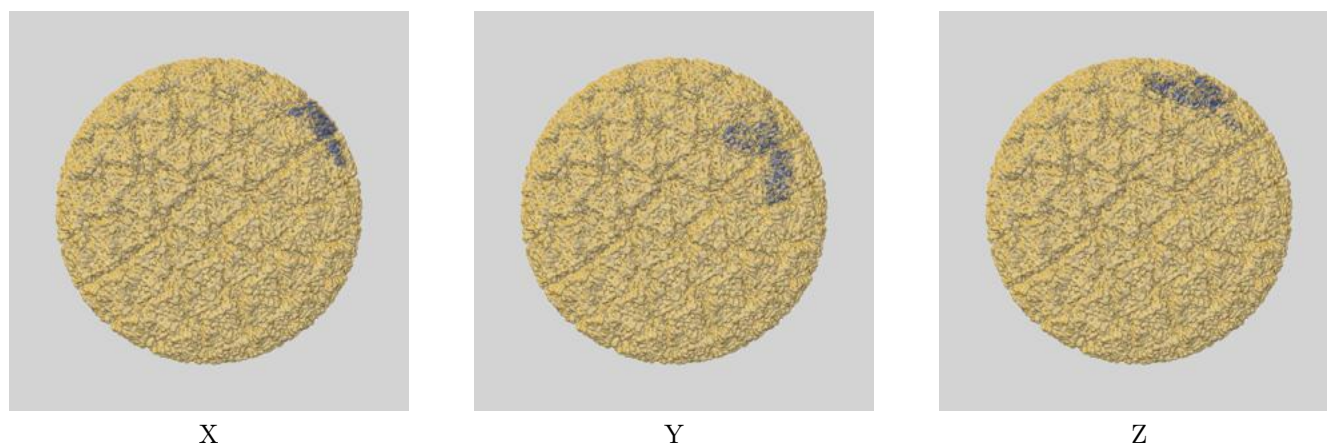
This section was not generated. No FSC curve or half-maps provided.

8 Map-model fit [i](#)

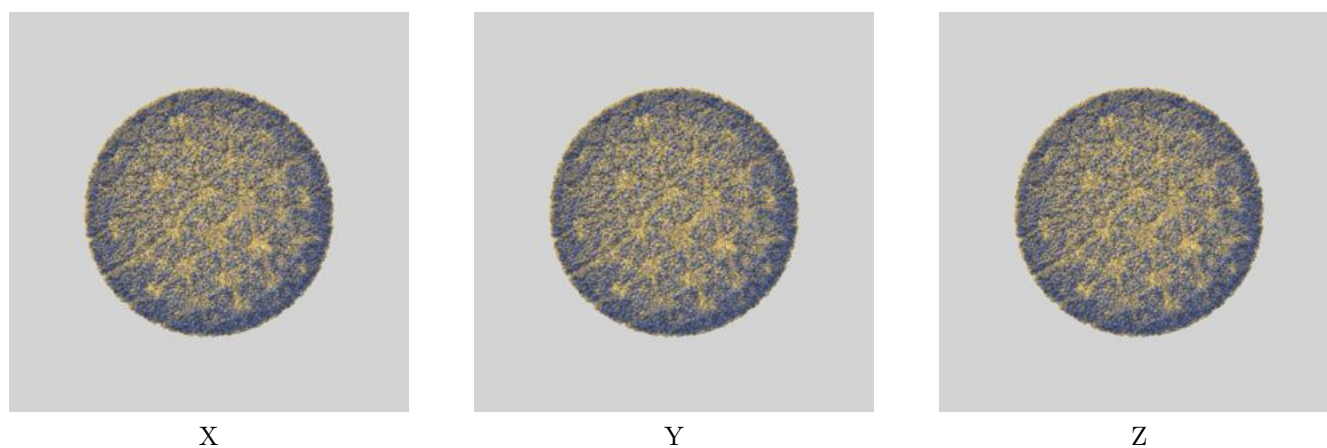
This section contains information regarding the fit between EMDB map EMD-1571 and PDB model 3GZT. Per-residue inclusion information can be found in section ?? on page ??.

8.1 Map-model overlays

8.1.1 Map-model overlay [i](#)

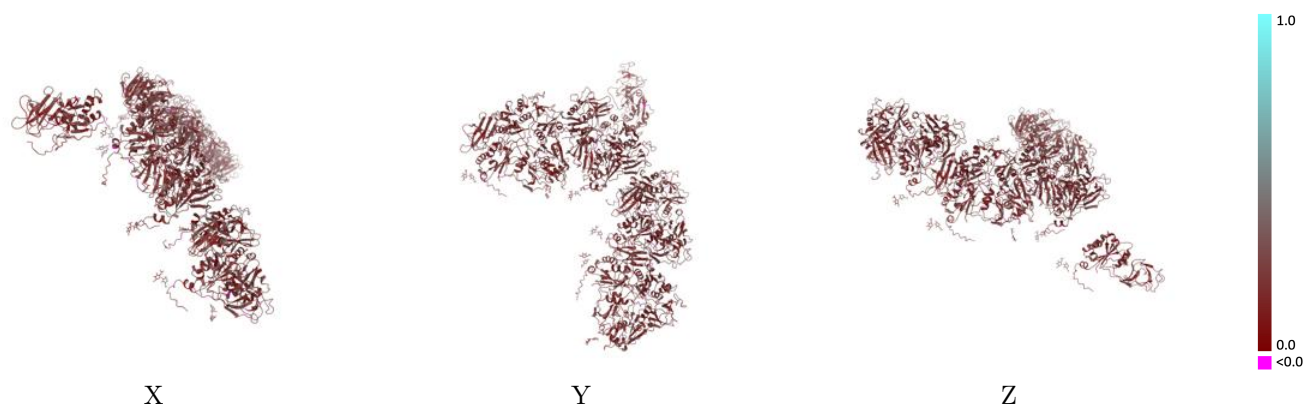


8.1.2 Map-model assembly overlay [i](#)



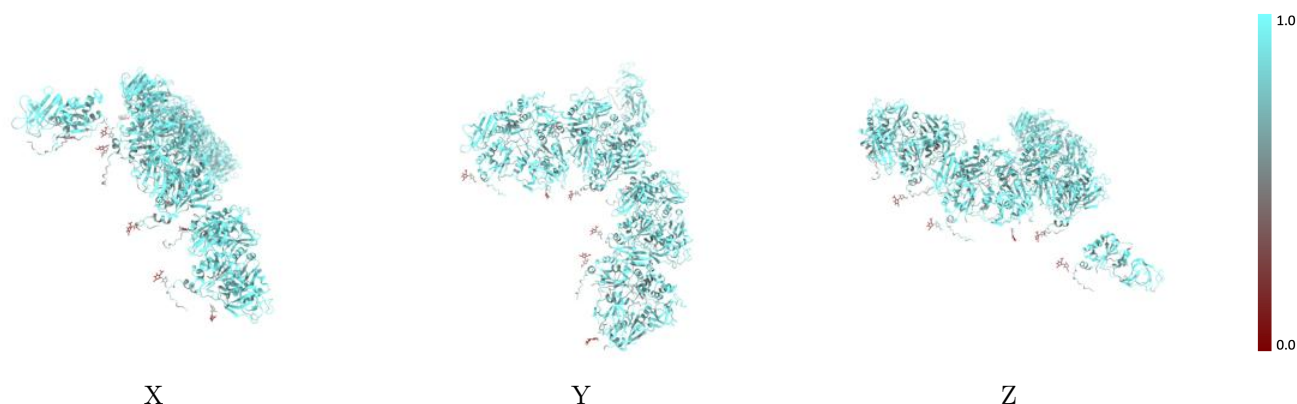
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

8.2 Q-score mapped to coordinate model [i](#)



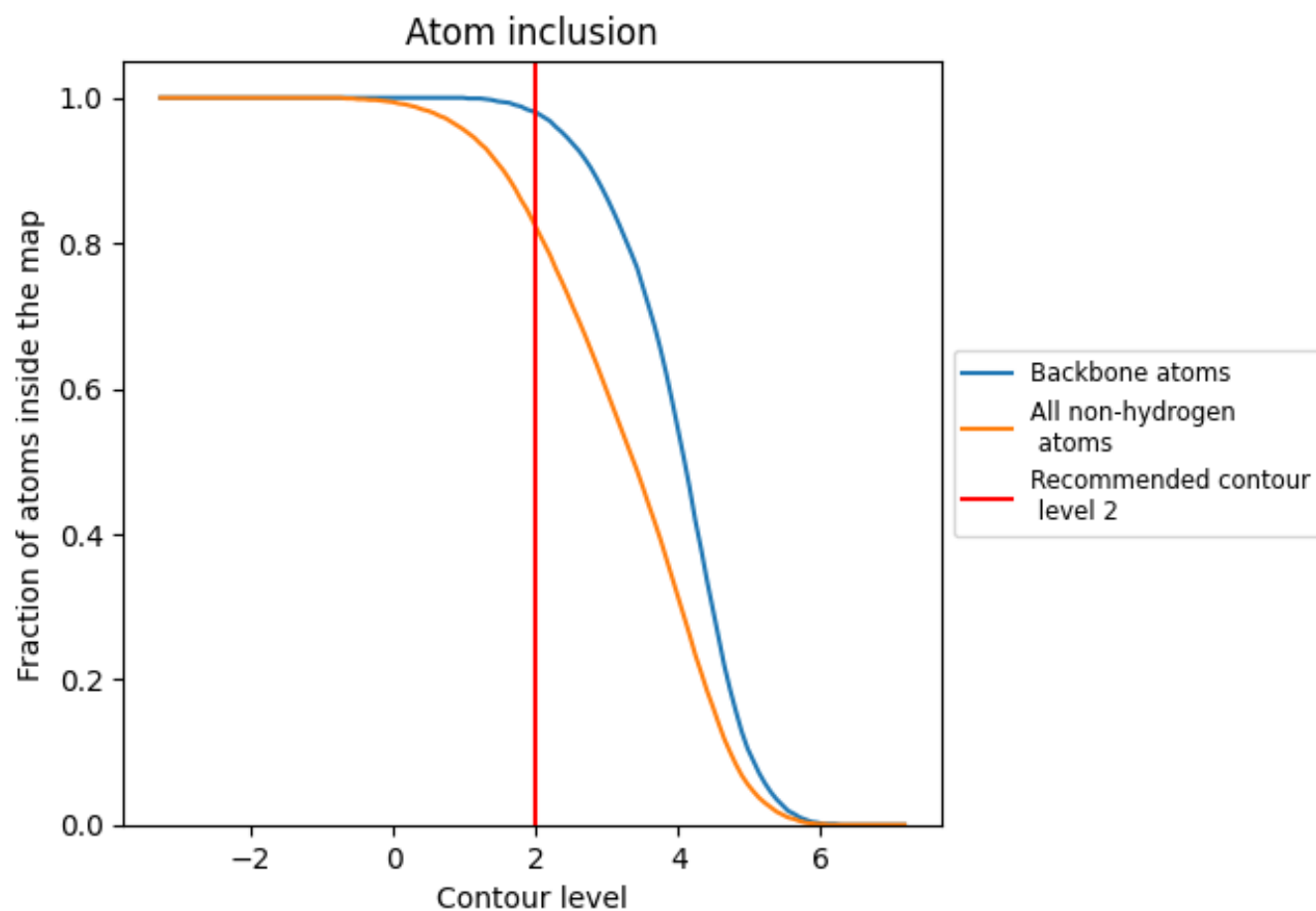
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

8.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

8.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 82% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8230	 0.2300
A	 0.1070	 0.3140
B	 0.8260	 0.2120
C	 0.2140	 0.2390
D	 0.2500	 0.2620
E	 0.2500	 0.2520
F	 0.8550	 0.2290
G	 0.8420	 0.2360
H	 0.8440	 0.2320
I	 0.7980	 0.2260
J	 0.8040	 0.2280
K	 0.8050	 0.2340
L	 0.8340	 0.2220
M	 0.8560	 0.2280
N	 0.8390	 0.2350
O	 0.8420	 0.2330
P	 0.8390	 0.2340
Q	 0.8340	 0.2340
R	 0.0360	 0.1640
S	 0.1430	 0.2570
T	 0.1790	 0.1960
U	 0.2140	 0.2180
V	 0.2860	 0.2410
W	 0.2500	 0.3320
X	 0.1720	 0.1760
Y	 0.2500	 0.2380
Z	 0.1790	 0.3550

