



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 04:15 AM UTC

PDB ID : 6RD3 / pdb_00006rd3
Title : Crystal structure of the wild type OmpK36 from Klebsiella pneumonia
Authors : Beis, K.; Romano, M.; Kwong, J.
Deposited on : 2019-04-12
Resolution : 1.98 Å(reported)

This is a Full wwPDB X-ray Structure 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/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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

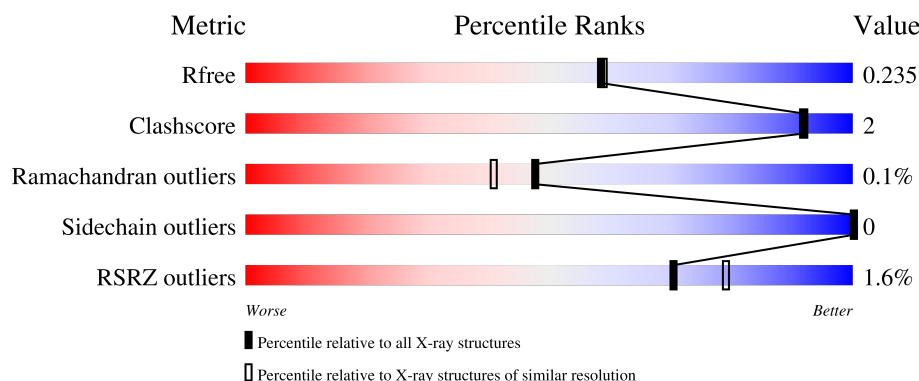
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.98 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.



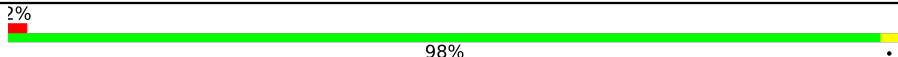
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1506 (1.98-1.98)
Clashscore	190562	1534 (1.98-1.98)
Ramachandran outliers	187476	1518 (1.98-1.98)
Sidechain outliers	187428	1518 (1.98-1.98)
RSRZ outliers	180081	1506 (1.98-1.98)

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	345	% 97% ..
1	B	345	2% 93% 7%
1	C	345	% 97% ..
1	D	345	% 97% .
1	E	345	3% 95% 5%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	F	345	 A horizontal bar chart showing the quality of chain F. The bar is 98% green and 2% red. The text '2%' is above the red segment, and '98%' is below the green segment. A small black dot is at the end of the bar.

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 17283 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.

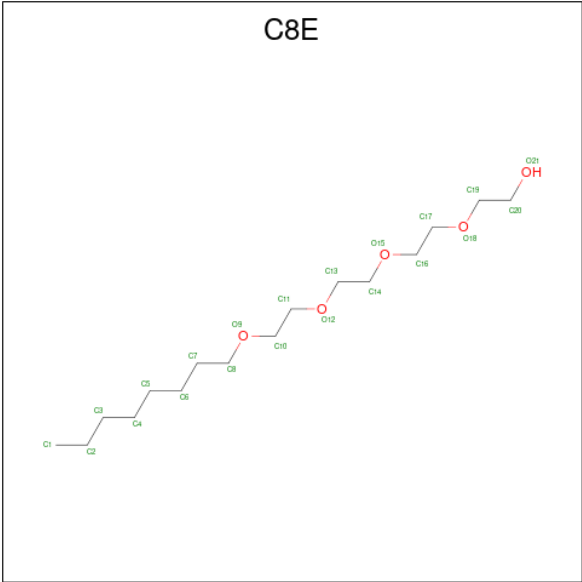
- Molecule 1 is a protein called OmpK36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	342	Total	C	N	O	S	0	0	0
			2669	1671	448	548	2			
1	B	345	Total	C	N	O	S	0	0	0
			2695	1688	452	553	2			
1	C	342	Total	C	N	O	S	0	0	0
			2665	1667	448	548	2			
1	D	345	Total	C	N	O	S	0	0	0
			2695	1688	452	553	2			
1	E	345	Total	C	N	O	S	0	0	0
			2695	1688	452	553	2			
1	F	345	Total	C	N	O	S	0	0	0
			2695	1688	452	553	2			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP D6QLY0
B	0	GLY	-	expression tag	UNP D6QLY0
C	0	GLY	-	expression tag	UNP D6QLY0
D	0	GLY	-	expression tag	UNP D6QLY0
E	0	GLY	-	expression tag	UNP D6QLY0
F	0	GLY	-	expression tag	UNP D6QLY0

- Molecule 2 is (HYDROXYETHYLOXY)TRI(ETHYLOXY)OCTANE (CCD ID: C8E) (formula: C₁₆H₃₄O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			9	8	1		
2	A	1	Total	C	O	0	0
			9	8	1		
2	A	1	Total	C	O	0	0
			14	9	5		
2	A	1	Total	C	O	0	0
			11	7	4		
2	A	1	Total	C	O	0	0
			10	6	4		
2	A	1	Total	C	O	0	0
			11	10	1		
2	A	1	Total	C	O	0	0
			12	8	4		
2	B	1	Total	C	O	0	0
			8	7	1		
2	B	1	Total	C		0	0
			7	7			
2	B	1	Total	C	O	0	0
			9	8	1		
2	B	1	Total	C	O	0	0
			9	8	1		
2	B	1	Total	C		0	0
			8	8			
2	B	1	Total	C	O	0	0
			10	9	1		
2	B	1	Total	C	O	0	0
			12	8	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	1	Total C O 10 9 1	0	0
2	C	1	Total C O 9 6 3	0	0
2	C	1	Total C O 7 4 3	0	0
2	D	1	Total C O 7 5 2	0	0
2	D	1	Total C O 12 10 2	0	0
2	D	1	Total C O 9 8 1	0	0
2	D	1	Total C O 12 8 4	0	0
2	E	1	Total C O 9 8 1	0	0
2	E	1	Total C 7 7	0	0
2	E	1	Total C O 12 10 2	0	0
2	E	1	Total C O 10 6 4	0	0
2	E	1	Total C 6 6	0	0
2	F	1	Total C 8 8	0	0
2	F	1	Total C O 8 5 3	0	0
2	F	1	Total C O 16 11 5	0	0

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Mg 1 1	0	0
3	B	1	Total Mg 1 1	0	0
3	C	1	Total Mg 1 1	0	0
3	D	1	Total Mg 1 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	1	Total 1	Mg 1	0	0
3	F	1	Total 1	Mg 1	0	0

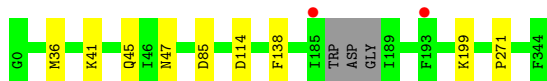
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	156	Total 156	O 156	0	0
4	B	158	Total 158	O 158	0	0
4	C	137	Total 137	O 137	0	0
4	D	162	Total 162	O 162	0	0
4	E	135	Total 135	O 135	0	0
4	F	134	Total 134	O 134	0	0

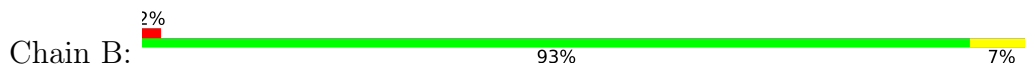
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: OmpK36



- Molecule 1: OmpK36



- Molecule 1: OmpK36



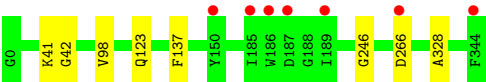
- Molecule 1: OmpK36



- Molecule 1: OmpK36



- Molecule 1: OmpK36



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	55.09Å 316.09Å 73.79Å 90.00° 102.86° 90.00°	Depositor
Resolution (Å)	53.20 – 1.98 53.20 – 1.98	Depositor EDS
% Data completeness (in resolution range)	100.0 (53.20-1.98) 100.0 (53.20-1.98)	Depositor EDS
R_{merge}	0.02	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.49 (at 1.98Å)	Xtriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.194 , 0.234 0.194 , 0.235	Depositor DCC
R_{free} test set	8541 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	22.0	Xtriage
Anisotropy	0.402	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 39.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	17283	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.42% 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: C8E, MG

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	0.30	0/2726	0.51	0/3688
1	B	0.29	0/2755	0.52	0/3730
1	C	0.30	0/2722	0.51	0/3682
1	D	0.31	0/2755	0.52	0/3730
1	E	0.28	0/2755	0.50	0/3730
1	F	0.29	0/2755	0.51	0/3730
All	All	0.30	0/16468	0.51	0/22290

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

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	2669	0	2459	7	0
1	B	2695	0	2477	13	0
1	C	2665	0	2451	4	0
1	D	2695	0	2477	8	0
1	E	2695	0	2477	12	0
1	F	2695	0	2477	4	0
2	A	76	0	111	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	73	0	121	1	0
2	C	16	0	20	0	0
2	D	40	0	61	3	0
2	E	44	0	72	2	0
2	F	32	0	45	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	A	156	0	0	0	0
4	B	158	0	0	0	0
4	C	137	0	0	0	0
4	D	162	0	0	0	0
4	E	135	0	0	0	0
4	F	134	0	0	0	0
All	All	17283	0	15248	49	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 2.

All (49) 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:B:48:ASP:HB3	1:B:49:GLN:HE21	1.50	0.76
1:B:186:TRP:CD1	1:B:187:ASP:H	2.21	0.58
1:E:26:ASP:HB3	1:E:29:VAL:HG22	1.86	0.57
1:D:294:LYS:HG2	1:D:318:LEU:HB2	1.87	0.56
1:D:193:PHE:HB3	2:D:405:C8E:H202	1.88	0.56
1:E:148:LEU:HD23	1:E:179:THR:HG22	1.89	0.55
1:B:45:GLN:NE2	1:B:47:ASN:O	2.38	0.53
1:D:195:TYR:HB2	2:D:405:C8E:H192	1.91	0.53
1:B:296:VAL:HG11	2:B:801:C8E:H52	1.90	0.52
1:A:45:GLN:NE2	1:A:47:ASN:O	2.33	0.51
1:E:177:PHE:HD2	2:E:404:C8E:H162	1.76	0.51
1:C:4:TYR:HB3	1:C:11:LEU:HB2	1.93	0.49
1:D:1:ALA:N	1:D:12:ASP:OD1	2.46	0.49
1:C:36:MET:HG3	1:C:60:VAL:HB	1.95	0.48
1:A:271:PRO:HB2	2:A:506:C8E:H102	1.95	0.47
1:A:41:LYS:HE2	1:A:41:LYS:HB3	1.59	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2:GLU:OE1	1:C:10:LYS:HD3	2.13	0.47
1:B:240:TYR:CD2	1:B:253:LYS:HG2	2.50	0.47
1:F:41:LYS:HD2	1:F:42:GLY:N	2.31	0.46
1:E:144:LEU:HD11	1:E:181:LEU:HD11	1.98	0.46
1:A:36:MET:HE3	1:C:56:TRP:CD2	2.51	0.45
2:A:503:C8E:H161	2:A:503:C8E:H191	1.58	0.45
1:F:266:ASP:N	1:F:266:ASP:OD1	2.49	0.44
1:D:263:TYR:O	1:D:271:PRO:HD2	2.17	0.44
1:B:168:GLY:O	1:B:172:GLN:HG3	2.17	0.44
2:A:505:C8E:H141	2:A:505:C8E:H171	1.69	0.43
1:E:10:LYS:HB3	1:E:10:LYS:HE3	1.72	0.43
1:A:85:ASP:O	1:A:138:PHE:HA	2.17	0.43
1:E:177:PHE:CD2	2:E:404:C8E:H162	2.54	0.42
1:B:95:TYR:CE1	1:B:125:ARG:HG3	2.54	0.42
1:B:2:GLU:OE1	1:B:10:LYS:HD2	2.20	0.41
1:B:41:LYS:HE2	1:B:55:GLN:NE2	2.35	0.41
1:E:218:THR:HG22	1:E:239:THR:HG22	2.02	0.41
1:B:96:GLY:HA2	1:B:149:GLN:OE1	2.20	0.41
1:D:336:VAL:HG21	2:D:404:C8E:H71	2.01	0.41
1:E:36:MET:HE2	1:E:36:MET:HB2	1.94	0.41
1:E:295:TYR:CD2	1:E:315:LYS:HG3	2.56	0.41
1:E:338:LEU:HD23	1:E:338:LEU:HA	1.94	0.41
1:A:114:ASP:OD1	1:A:114:ASP:N	2.54	0.41
1:B:148:LEU:HD23	1:B:179:THR:HG22	2.03	0.41
1:B:295:TYR:CD2	1:B:315:LYS:HG3	2.56	0.41
1:D:36:MET:HE2	1:D:36:MET:HB2	2.00	0.41
1:E:114:ASP:OD1	1:E:114:ASP:N	2.53	0.41
1:E:296:VAL:HG23	1:E:318:LEU:HD11	2.01	0.41
1:F:246:GLY:HA3	1:F:328:ALA:HB1	2.03	0.41
1:B:48:ASP:HB3	1:B:49:GLN:NE2	2.26	0.40
1:D:283:LEU:HG	1:D:288:GLY:O	2.21	0.40
1:F:98:VAL:HB	1:F:123:GLN:HA	2.04	0.40
1:A:199:LYS:HD2	1:A:199:LYS:HA	1.79	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	338/345 (98%)	321 (95%)	17 (5%)	0	100	100
1	B	343/345 (99%)	323 (94%)	20 (6%)	0	100	100
1	C	338/345 (98%)	324 (96%)	13 (4%)	1 (0%)	36	27
1	D	343/345 (99%)	323 (94%)	20 (6%)	0	100	100
1	E	343/345 (99%)	323 (94%)	20 (6%)	0	100	100
1	F	343/345 (99%)	325 (95%)	17 (5%)	1 (0%)	36	27
All	All	2048/2070 (99%)	1939 (95%)	107 (5%)	2 (0%)	48	41

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	137	PHE
1	C	137	PHE

5.3.2 Protein sidechains

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	274/276 (99%)	274 (100%)	0	100	100
1	B	276/276 (100%)	276 (100%)	0	100	100
1	C	273/276 (99%)	273 (100%)	0	100	100
1	D	276/276 (100%)	276 (100%)	0	100	100
1	E	276/276 (100%)	276 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	276/276 (100%)	276 (100%)	0	100	100
All	All	1651/1656 (100%)	1651 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	71	GLN
1	A	123	GLN
1	A	151	GLN
1	B	9	ASN
1	B	49	GLN
1	B	55	GLN
1	B	215	ASN
1	B	228	ASN
1	B	241	ASN
1	C	9	ASN
1	C	238	GLN
1	D	9	ASN
1	D	49	GLN
1	D	71	GLN
1	D	151	GLN
1	D	228	ASN
1	D	256	ASN
1	E	71	GLN
1	E	151	GLN
1	E	197	HIS
1	E	215	ASN
1	E	228	ASN
1	F	9	ASN
1	F	71	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 35 ligands modelled in this entry, 6 are monoatomic - leaving 29 for Mogul analysis.

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	C8E	E	404	-	9,9,20	0.44	0	8,8,19	0.54	0
2	C8E	B	808	-	9,9,20	0.42	0	8,8,19	0.30	0
2	C8E	B	807	-	11,11,20	0.44	0	10,10,19	0.46	0
2	C8E	B	806	-	9,9,20	0.31	0	8,8,19	0.62	0
2	C8E	F	401	-	7,7,20	0.29	0	6,6,19	0.48	0
2	C8E	A	502	-	8,8,20	0.26	0	7,7,19	0.52	0
2	C8E	A	504	-	10,10,20	0.42	0	9,9,19	0.38	0
2	C8E	B	802	-	6,6,20	0.33	0	5,5,19	0.35	0
2	C8E	D	404	-	8,8,20	0.26	0	7,7,19	0.55	0
2	C8E	B	801	-	7,7,20	0.34	0	6,6,19	0.36	0
2	C8E	A	505	-	9,9,20	0.42	0	8,8,19	0.24	0
2	C8E	E	401	-	8,8,20	0.24	0	7,7,19	0.60	0
2	C8E	A	507	-	11,11,20	0.49	0	10,10,19	0.19	0
2	C8E	D	405	-	11,11,20	0.56	0	10,10,19	0.33	0
2	C8E	A	506	-	10,10,20	0.35	0	9,9,19	0.60	0
2	C8E	F	402	-	7,7,20	0.41	0	6,6,19	0.16	0
2	C8E	B	805	-	7,7,20	0.26	0	6,6,19	0.50	0
2	C8E	E	403	-	11,11,20	0.32	0	10,10,19	0.58	0
2	C8E	C	402	-	6,6,20	0.40	0	5,5,19	0.38	0
2	C8E	B	803	-	8,8,20	0.25	0	7,7,19	0.53	0
2	C8E	A	503	-	13,13,20	0.43	0	12,12,19	0.32	0
2	C8E	E	405	-	5,5,20	0.30	0	4,4,19	0.44	0
2	C8E	E	402	-	6,6,20	0.28	0	5,5,19	0.48	0
2	C8E	C	401	-	8,8,20	0.48	0	7,7,19	0.28	0
2	C8E	D	403	-	11,11,20	0.32	0	10,10,19	0.39	0
2	C8E	A	501	-	8,8,20	0.25	0	7,7,19	0.51	0
2	C8E	F	403	-	15,15,20	0.50	0	14,14,19	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	C8E	D	402	-	6,6,20	0.36	0	5,5,19	0.19	0
2	C8E	B	804	-	8,8,20	0.28	0	7,7,19	0.47	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
2	C8E	E	404	-	-	5/7/7/18	-
2	C8E	B	808	-	-	5/7/7/18	-
2	C8E	B	807	-	-	5/9/9/18	-
2	C8E	B	806	-	-	6/7/7/18	-
2	C8E	F	401	-	-	3/5/5/18	-
2	C8E	A	502	-	-	2/6/6/18	-
2	C8E	A	504	-	-	6/8/8/18	-
2	C8E	B	802	-	-	0/4/4/18	-
2	C8E	D	404	-	-	4/6/6/18	-
2	C8E	B	801	-	-	3/5/5/18	-
2	C8E	A	505	-	-	7/7/7/18	-
2	C8E	E	401	-	-	1/6/6/18	-
2	C8E	A	507	-	-	7/9/9/18	-
2	C8E	D	405	-	-	6/9/9/18	-
2	C8E	A	506	-	-	3/8/8/18	-
2	C8E	F	402	-	-	2/5/5/18	-
2	C8E	B	805	-	-	3/5/5/18	-
2	C8E	E	403	-	-	7/9/9/18	-
2	C8E	C	402	-	-	2/4/4/18	-
2	C8E	B	803	-	-	2/6/6/18	-
2	C8E	A	503	-	-	9/11/11/18	-
2	C8E	E	405	-	-	1/3/3/18	-
2	C8E	E	402	-	-	3/4/4/18	-
2	C8E	C	401	-	-	5/6/6/18	-
2	C8E	D	403	-	-	4/9/9/18	-
2	C8E	A	501	-	-	5/6/6/18	-
2	C8E	F	403	-	-	10/13/13/18	-
2	C8E	D	402	-	-	2/4/4/18	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	C8E	B	804	-	-	4/6/6/18	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (122) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	503	C8E	C16-C17-O18-C19
2	A	503	C8E	O12-C13-C14-O15
2	F	403	C8E	C6-C7-C8-O9
2	A	504	C8E	O12-C13-C14-O15
2	A	504	C8E	O15-C16-C17-O18
2	D	405	C8E	O15-C16-C17-O18
2	A	505	C8E	O12-C13-C14-O15
2	B	807	C8E	O15-C16-C17-O18
2	A	507	C8E	O12-C13-C14-O15
2	F	403	C8E	C17-C16-O15-C14
2	B	807	C8E	O12-C13-C14-O15
2	B	801	C8E	C7-C8-O9-C10
2	B	808	C8E	C7-C8-O9-C10
2	A	503	C8E	O15-C16-C17-O18
2	F	403	C8E	O12-C13-C14-O15
2	B	807	C8E	O18-C19-C20-O21
2	C	401	C8E	O18-C19-C20-O21
2	C	402	C8E	O15-C16-C17-O18
2	C	402	C8E	O18-C19-C20-O21
2	E	404	C8E	O12-C13-C14-O15
2	E	404	C8E	O18-C19-C20-O21
2	E	402	C8E	C3-C4-C5-C6
2	A	501	C8E	C2-C3-C4-C5
2	E	403	C8E	C2-C3-C4-C5
2	A	507	C8E	O18-C19-C20-O21
2	B	803	C8E	C2-C3-C4-C5
2	B	808	C8E	C4-C5-C6-C7
2	B	806	C8E	C5-C6-C7-C8
2	D	405	C8E	O12-C13-C14-O15
2	E	405	C8E	C3-C4-C5-C6
2	B	804	C8E	C3-C4-C5-C6
2	E	403	C8E	C3-C4-C5-C6
2	A	502	C8E	C2-C3-C4-C5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	D	403	C8E	C3-C4-C5-C6
2	B	808	C8E	C3-C4-C5-C6
2	A	504	C8E	O18-C19-C20-O21
2	D	405	C8E	O18-C19-C20-O21
2	B	803	C8E	C6-C7-C8-O9
2	A	507	C8E	O15-C16-C17-O18
2	A	501	C8E	C6-C7-C8-O9
2	E	403	C8E	C4-C5-C6-C7
2	E	404	C8E	C16-C17-O18-C19
2	A	506	C8E	C1-C2-C3-C4
2	B	808	C8E	C6-C7-C8-O9
2	B	806	C8E	C2-C3-C4-C5
2	E	403	C8E	C1-C2-C3-C4
2	D	404	C8E	C5-C6-C7-C8
2	F	403	C8E	O9-C10-C11-O12
2	D	404	C8E	C3-C4-C5-C6
2	B	806	C8E	C7-C8-O9-C10
2	B	807	C8E	C10-C11-O12-C13
2	B	801	C8E	C4-C5-C6-C7
2	E	402	C8E	C4-C5-C6-C7
2	A	501	C8E	C3-C4-C5-C6
2	B	806	C8E	C3-C4-C5-C6
2	B	804	C8E	C1-C2-C3-C4
2	B	801	C8E	C6-C7-C8-O9
2	A	502	C8E	C1-C2-C3-C4
2	A	505	C8E	C17-C16-O15-C14
2	B	808	C8E	C5-C6-C7-C8
2	A	503	C8E	C10-C11-O12-C13
2	A	505	C8E	C16-C17-O18-C19
2	B	807	C8E	C14-C13-O12-C11
2	F	401	C8E	C2-C3-C4-C5
2	D	405	C8E	C20-C19-O18-C17
2	C	401	C8E	C13-C14-O15-C16
2	F	403	C8E	C14-C13-O12-C11
2	A	503	C8E	C13-C14-O15-C16
2	D	405	C8E	C13-C14-O15-C16
2	A	507	C8E	C16-C17-O18-C19
2	B	805	C8E	C2-C3-C4-C5
2	D	405	C8E	C16-C17-O18-C19
2	C	401	C8E	C17-C16-O15-C14
2	A	506	C8E	C7-C8-O9-C10
2	E	403	C8E	C7-C8-O9-C10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
2	F	403	C8E	C7-C8-O9-C10
2	F	403	C8E	C13-C14-O15-C16
2	F	402	C8E	C20-C19-O18-C17
2	A	507	C8E	C20-C19-O18-C17
2	D	403	C8E	C1-C2-C3-C4
2	A	507	C8E	C17-C16-O15-C14
2	A	503	C8E	O18-C19-C20-O21
2	F	403	C8E	C20-C19-O18-C17
2	A	503	C8E	C14-C13-O12-C11
2	A	504	C8E	C14-C13-O12-C11
2	A	504	C8E	C17-C16-O15-C14
2	A	505	C8E	O18-C19-C20-O21
2	F	403	C8E	O15-C16-C17-O18
2	F	401	C8E	C1-C2-C3-C4
2	E	402	C8E	C2-C3-C4-C5
2	A	501	C8E	C1-C2-C3-C4
2	B	806	C8E	C1-C2-C3-C4
2	D	404	C8E	C6-C7-C8-O9
2	D	402	C8E	C6-C7-C8-O9
2	A	503	C8E	C17-C16-O15-C14
2	A	505	C8E	C20-C19-O18-C17
2	B	806	C8E	C4-C5-C6-C7
2	A	503	C8E	C20-C19-O18-C17
2	B	804	C8E	C2-C3-C4-C5
2	D	404	C8E	C4-C5-C6-C7
2	D	402	C8E	C7-C8-O9-C10
2	B	805	C8E	C3-C4-C5-C6
2	F	403	C8E	C11-C10-O9-C8
2	C	401	C8E	C20-C19-O18-C17
2	D	403	C8E	O9-C10-C11-O12
2	E	403	C8E	O9-C10-C11-O12
2	E	403	C8E	C6-C7-C8-O9
2	E	401	C8E	C3-C4-C5-C6
2	A	507	C8E	C13-C14-O15-C16
2	F	401	C8E	C4-C5-C6-C7
2	A	506	C8E	C3-C4-C5-C6
2	B	805	C8E	C4-C5-C6-C7
2	A	501	C8E	C4-C5-C6-C7
2	A	505	C8E	C13-C14-O15-C16
2	F	402	C8E	O15-C16-C17-O18
2	C	401	C8E	O15-C16-C17-O18
2	A	505	C8E	O15-C16-C17-O18

Continued on next page...

Continued from previous page...

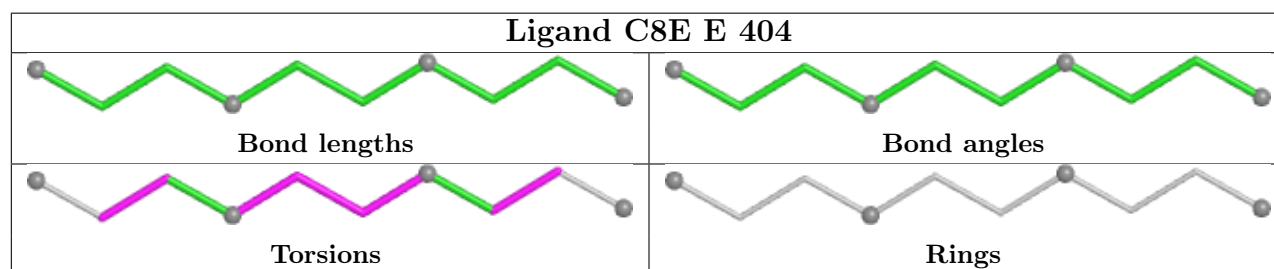
Mol	Chain	Res	Type	Atoms
2	D	403	C8E	C2-C3-C4-C5
2	E	404	C8E	O15-C16-C17-O18
2	B	804	C8E	C6-C7-C8-O9
2	E	404	C8E	C17-C16-O15-C14
2	A	504	C8E	C13-C14-O15-C16

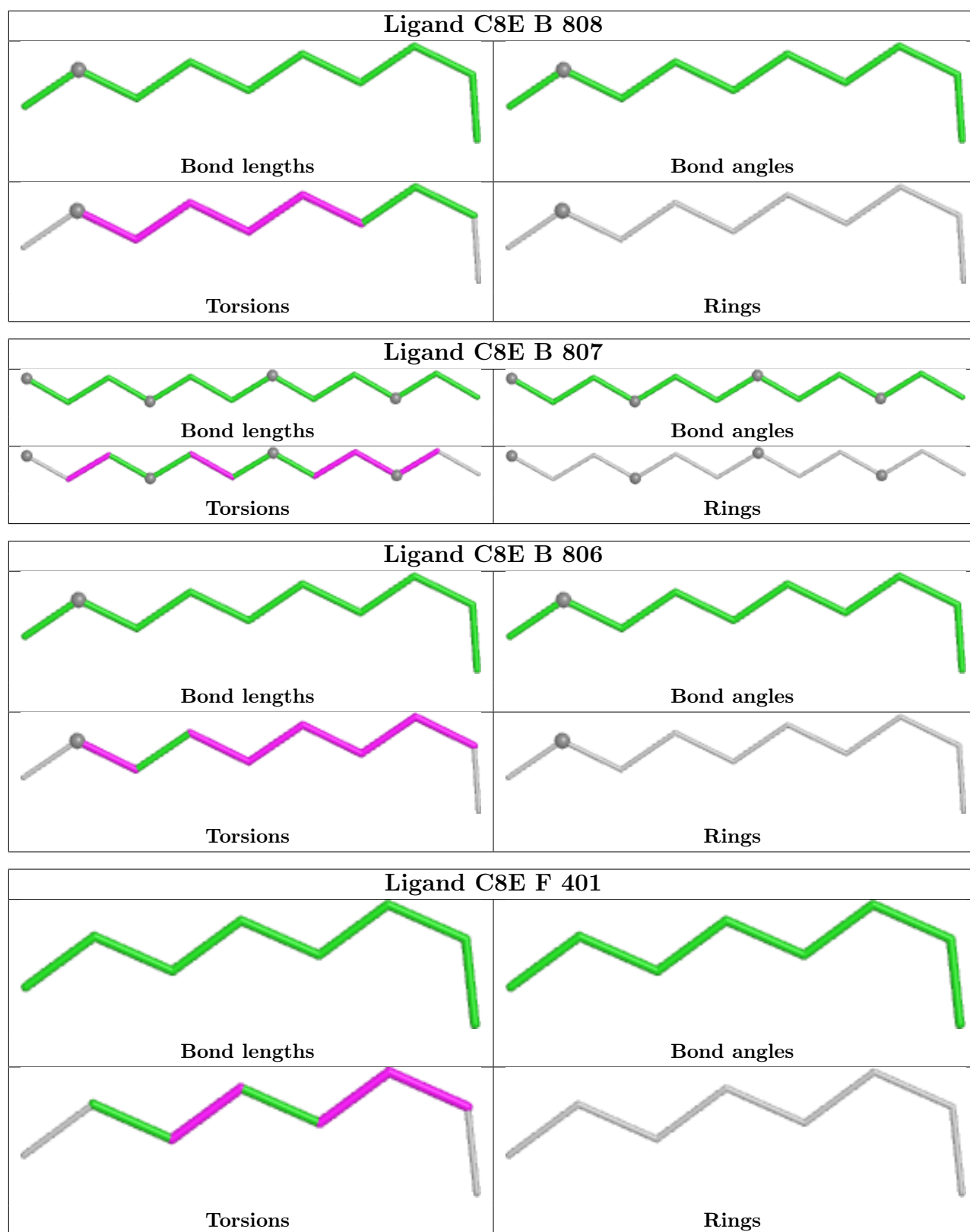
There are no ring outliers.

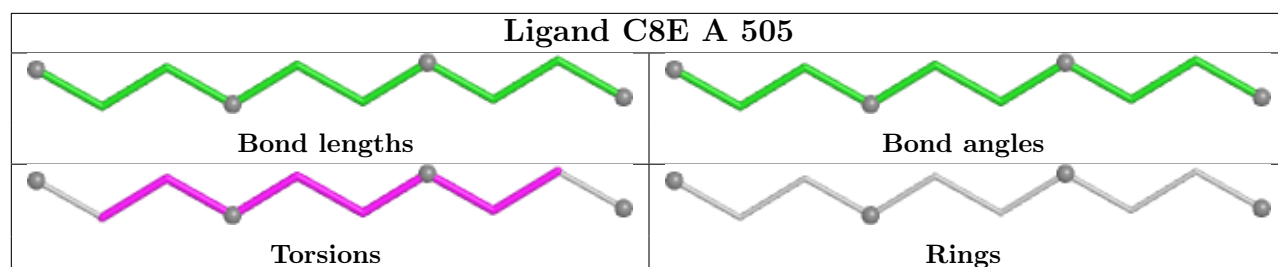
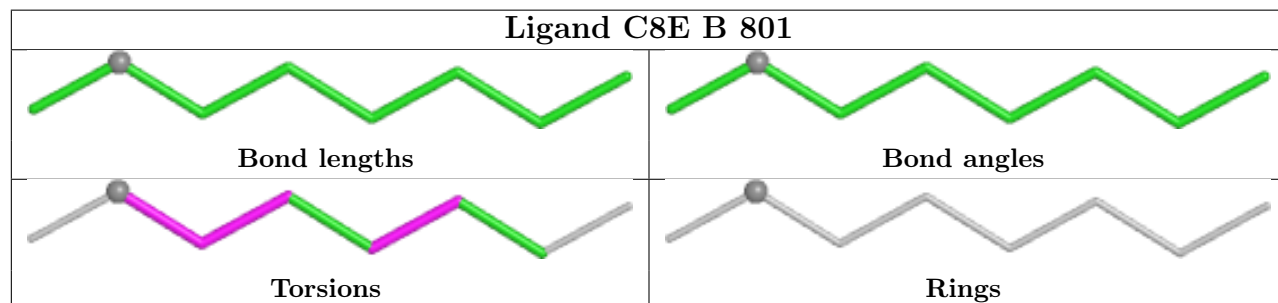
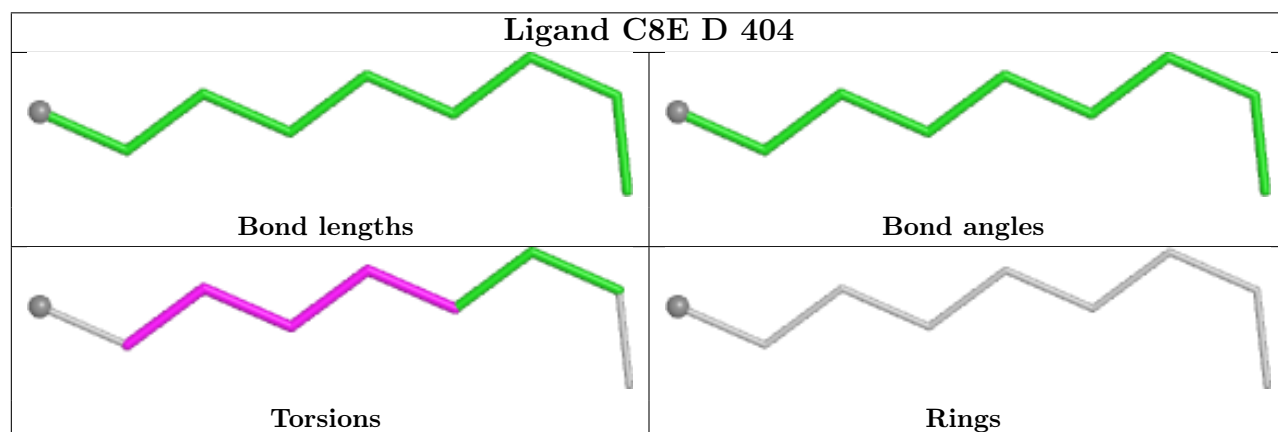
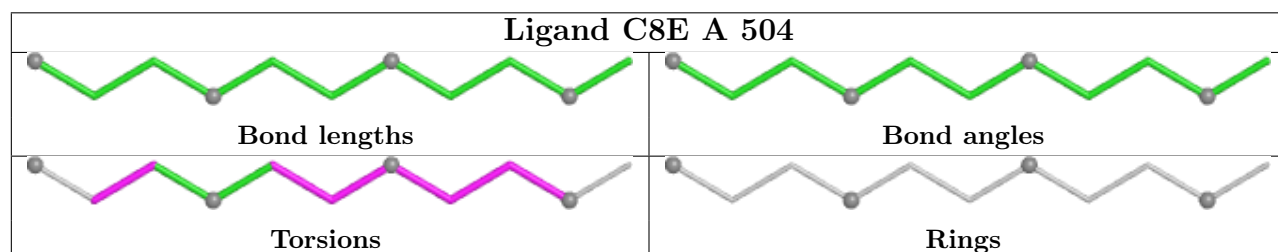
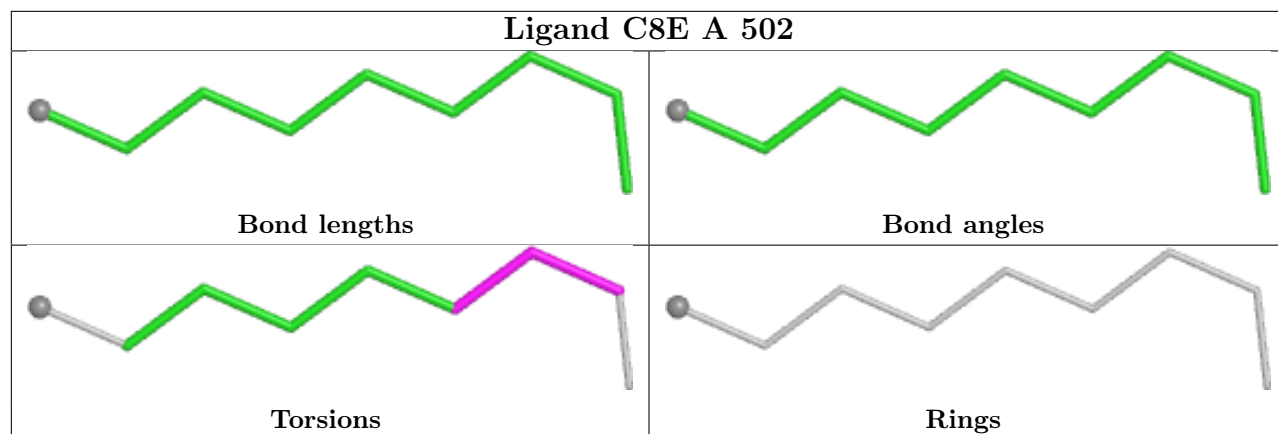
7 monomers are involved in 9 short contacts:

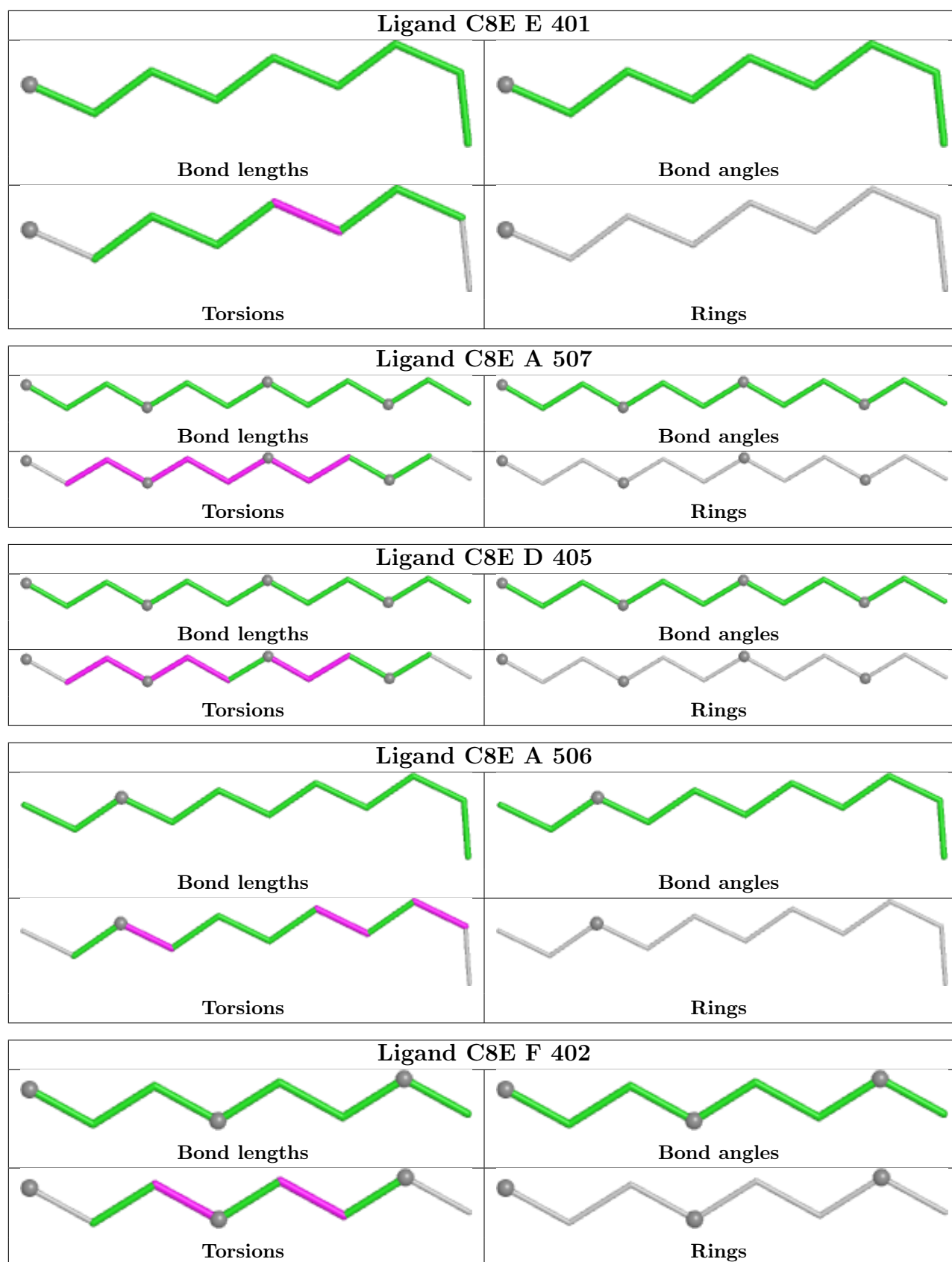
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	404	C8E	2	0
2	D	404	C8E	1	0
2	B	801	C8E	1	0
2	A	505	C8E	1	0
2	D	405	C8E	2	0
2	A	506	C8E	1	0
2	A	503	C8E	1	0

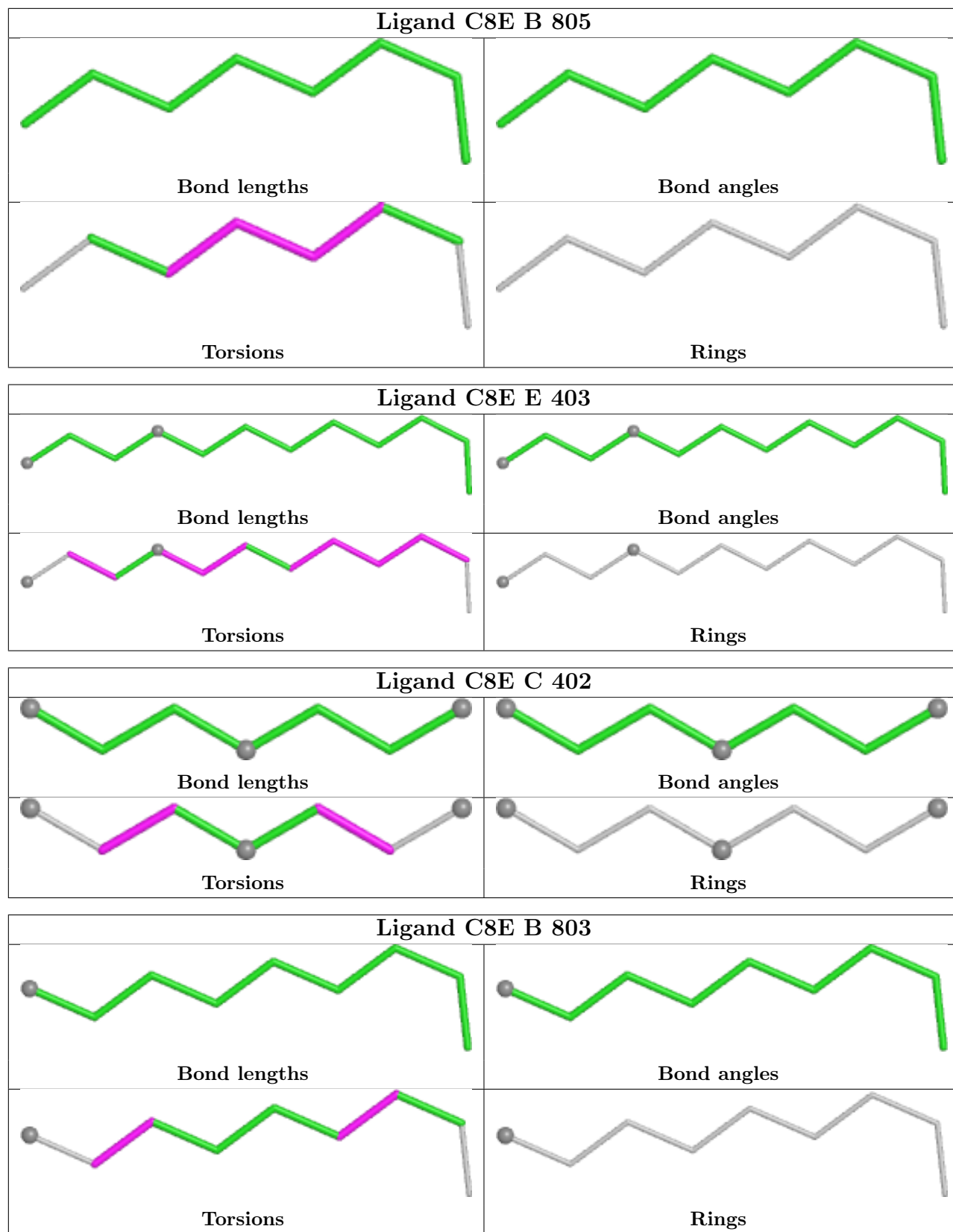
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

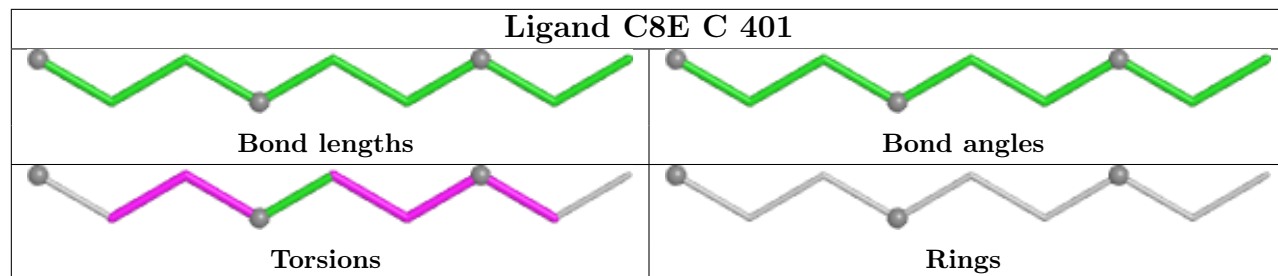
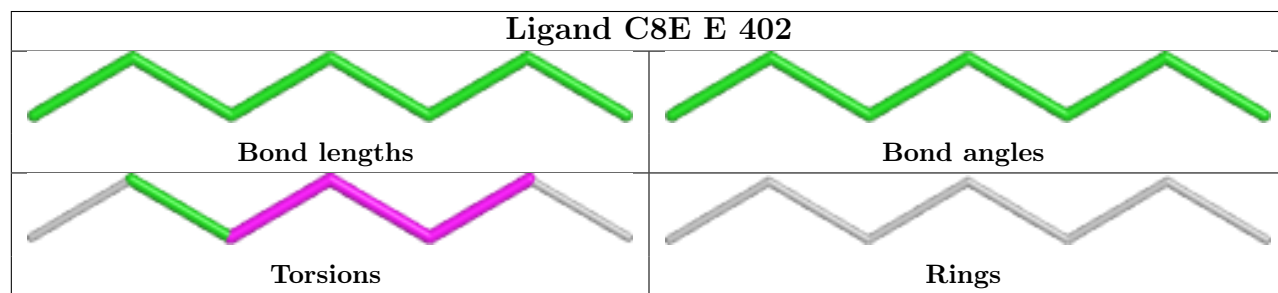
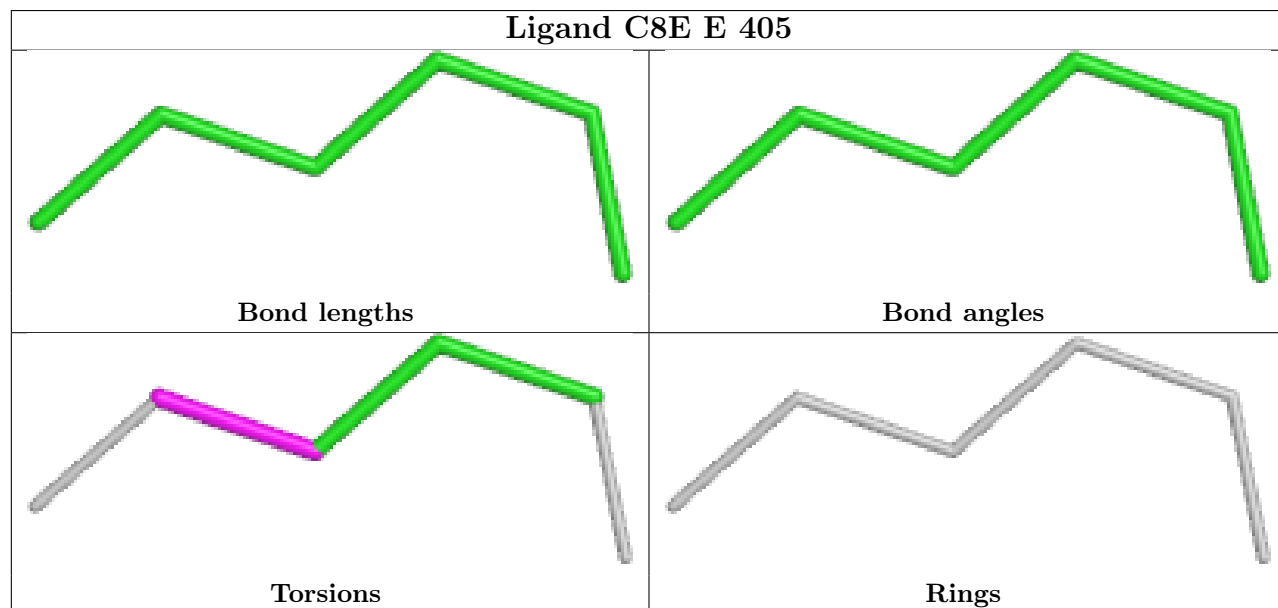
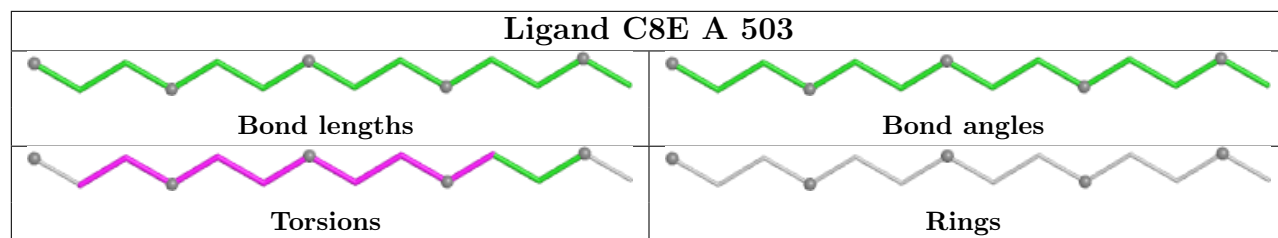


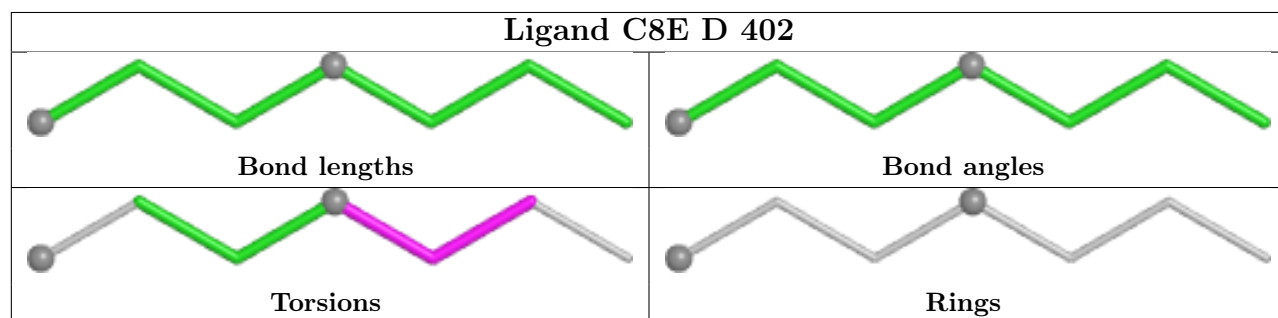
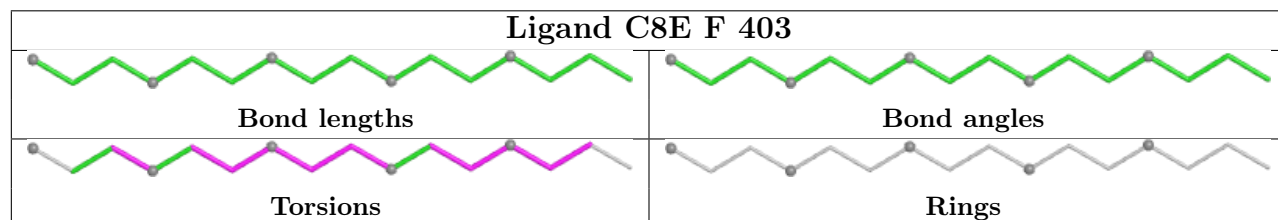
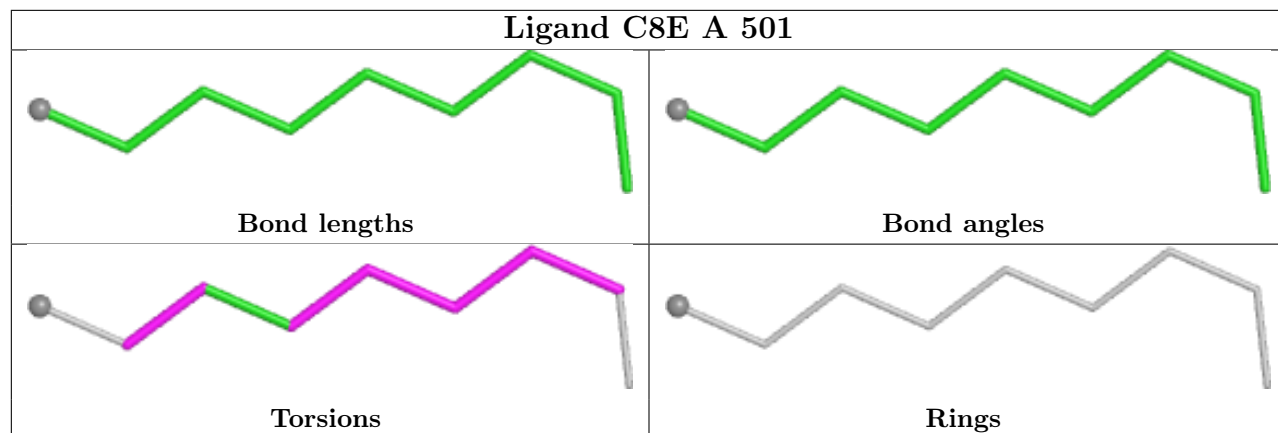
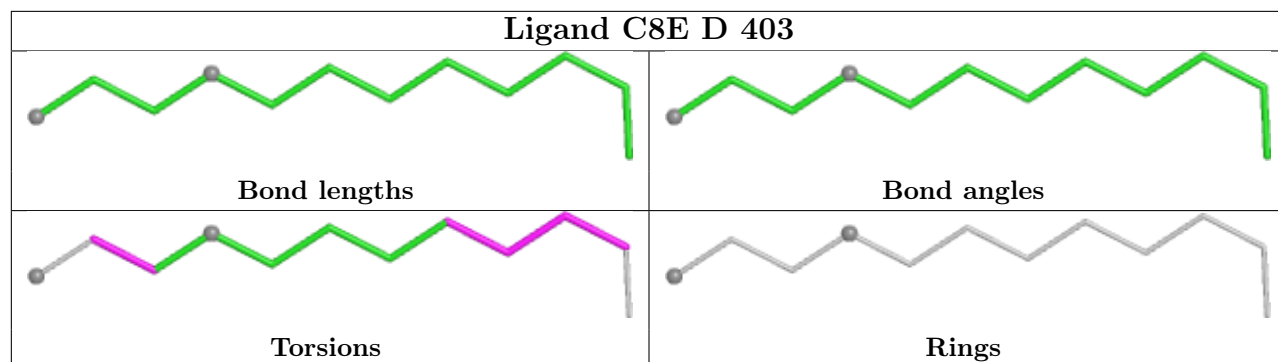


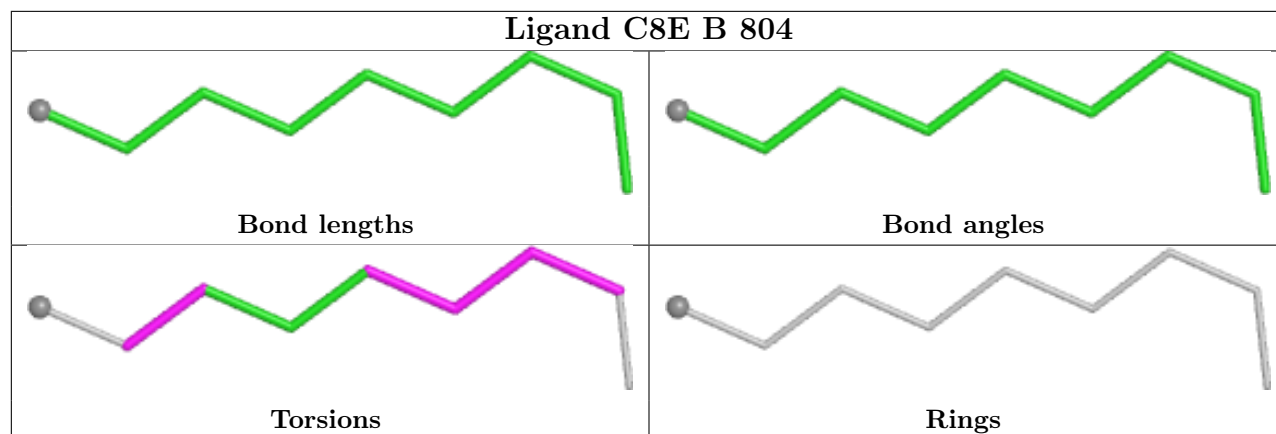












5.7 Other polymers [i](#)

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

6.1 Protein, DNA and RNA chains

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	342/345 (99%)	-0.06	2 (0%) 85 90	16, 23, 32, 41	0
1	B	345/345 (100%)	-0.02	7 (2%) 65 74	17, 22, 35, 69	0
1	C	342/345 (99%)	0.03	3 (0%) 81 86	17, 23, 34, 44	0
1	D	345/345 (100%)	-0.05	4 (1%) 76 83	17, 22, 32, 48	0
1	E	345/345 (100%)	0.04	10 (2%) 53 63	17, 24, 34, 67	0
1	F	345/345 (100%)	0.08	7 (2%) 65 74	16, 24, 34, 74	0
All	All	2064/2070 (99%)	0.00	33 (1%) 70 79	16, 23, 34, 74	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	186	TRP	6.0
1	F	186	TRP	6.0
1	B	186	TRP	5.9
1	B	185	ILE	4.5
1	A	185	ILE	3.6
1	E	185	ILE	3.3
1	D	186	TRP	3.3
1	C	0	GLY	3.3
1	C	184	ASP	3.3
1	C	150	TYR	2.9
1	B	184	ASP	2.9
1	F	187	ASP	2.9
1	E	12	ASP	2.8
1	F	150	TYR	2.7
1	E	193	PHE	2.7
1	D	193	PHE	2.6
1	F	344	PHE	2.6
1	D	187	ASP	2.6
1	E	187	ASP	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	F	185	ILE	2.4
1	E	321	ASP	2.4
1	F	266	ASP	2.3
1	A	193	PHE	2.3
1	B	83	PHE	2.2
1	E	7	ASP	2.2
1	E	160	GLU	2.2
1	D	48	ASP	2.2
1	E	48	ASP	2.2
1	B	7	ASP	2.2
1	E	184	ASP	2.1
1	F	189	ILE	2.1
1	B	140	LEU	2.0
1	B	187	ASP	2.0

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](#)

There are no oligosaccharides in this entry.

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($\text{\AA}^2$)	Q<0.9
2	C8E	D	405	12/21	0.75	0.15	27,37,42,43	0
2	C8E	C	401	9/21	0.77	0.17	35,37,43,43	0
2	C8E	A	504	11/21	0.78	0.16	28,36,41,44	0
2	C8E	D	404	9/21	0.78	0.17	35,38,43,48	0
2	C8E	B	808	10/21	0.78	0.16	24,34,38,46	0
2	C8E	A	506	11/21	0.79	0.15	25,30,42,45	0
2	C8E	F	402	8/21	0.79	0.16	40,41,46,48	0
2	C8E	A	507	12/21	0.81	0.14	37,43,48,50	0
2	C8E	B	806	10/21	0.81	0.15	25,33,41,41	0

Continued on next page...

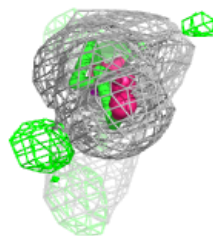
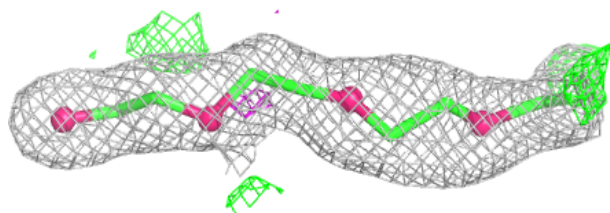
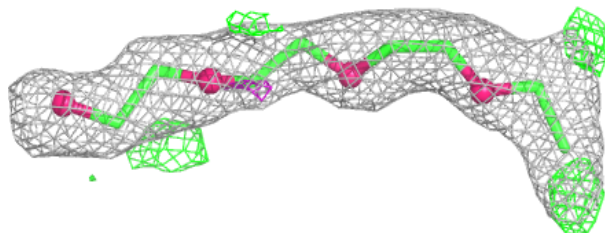
Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	C8E	E	405	6/21	0.81	0.16	31,31,35,38	0
2	C8E	C	402	7/21	0.81	0.16	27,33,36,38	0
2	C8E	B	807	12/21	0.83	0.15	26,35,43,49	0
2	C8E	B	801	8/21	0.83	0.18	31,37,45,51	0
2	C8E	E	403	12/21	0.84	0.13	31,34,45,51	0
2	C8E	A	502	9/21	0.84	0.12	21,26,34,41	0
2	C8E	A	505	10/21	0.84	0.13	37,43,52,53	0
2	C8E	F	403	16/21	0.84	0.14	25,36,42,43	0
2	C8E	D	403	12/21	0.86	0.13	28,34,37,44	0
2	C8E	B	803	9/21	0.86	0.15	30,37,43,49	0
2	C8E	B	802	7/21	0.86	0.12	25,27,31,31	0
2	C8E	E	402	7/21	0.86	0.12	24,31,34,34	0
2	C8E	F	401	8/21	0.87	0.13	23,28,31,31	0
2	C8E	D	402	7/21	0.88	0.11	26,31,37,41	0
2	C8E	A	503	14/21	0.88	0.12	31,34,40,41	0
2	C8E	B	805	8/21	0.89	0.14	27,30,35,35	0
2	C8E	E	401	9/21	0.90	0.10	28,31,36,41	0
2	C8E	B	804	9/21	0.91	0.10	25,28,34,42	0
2	C8E	A	501	9/21	0.92	0.09	24,28,30,34	0
2	C8E	E	404	10/21	0.92	0.10	26,34,37,38	0
3	MG	E	406	1/1	0.95	0.07	36,36,36,36	0
3	MG	F	404	1/1	0.95	0.14	29,29,29,29	0
3	MG	A	508	1/1	0.97	0.07	23,23,23,23	0
3	MG	B	809	1/1	0.97	0.08	33,33,33,33	0
3	MG	C	403	1/1	0.98	0.07	24,24,24,24	0
3	MG	D	401	1/1	0.99	0.08	21,21,21,21	0

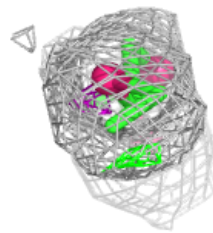
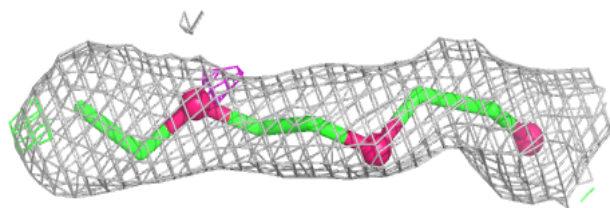
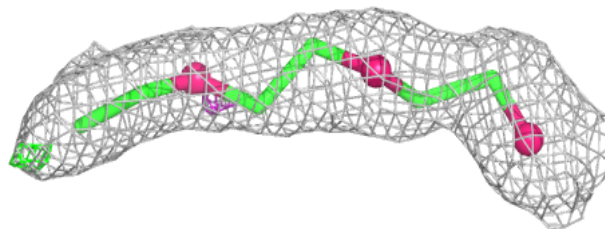
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around C8E D 405:

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

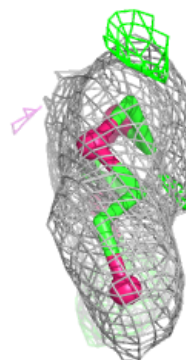
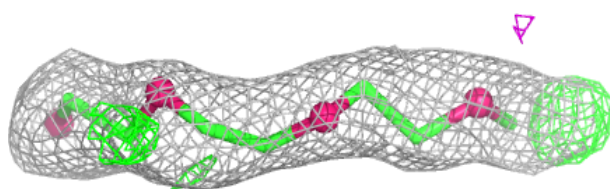
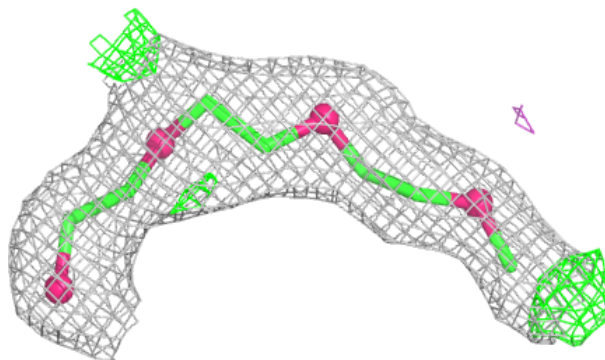
**Electron density around C8E C 401:**

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

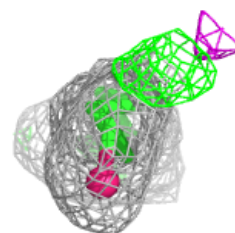
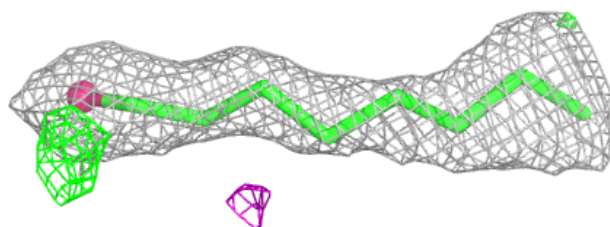
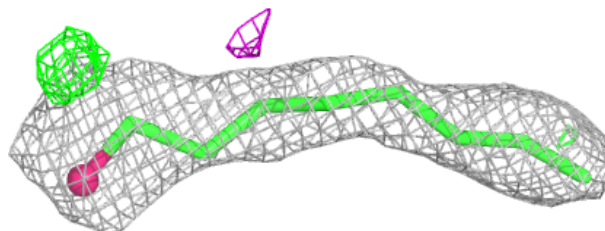


Electron density around C8E A 504:

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

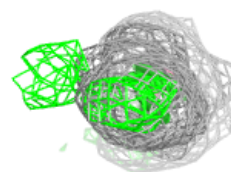
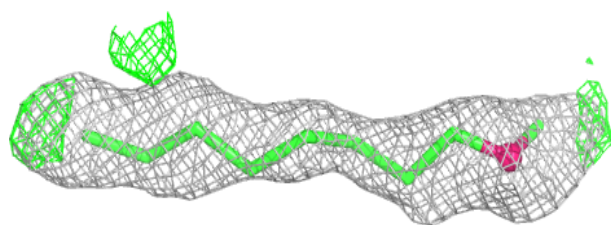
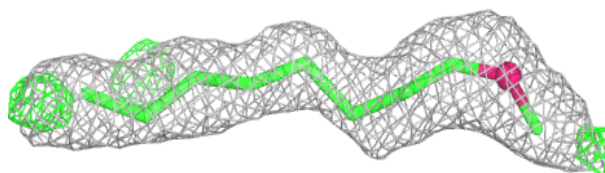
**Electron density around C8E D 404:**

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

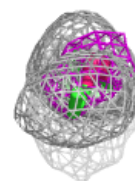
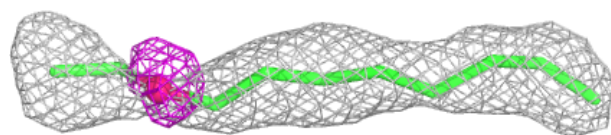
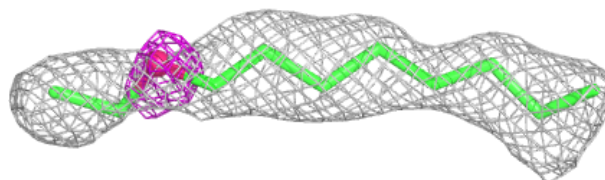


Electron density around C8E B 808:

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

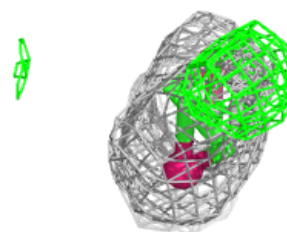
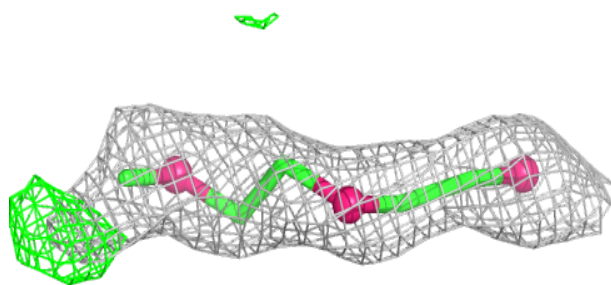
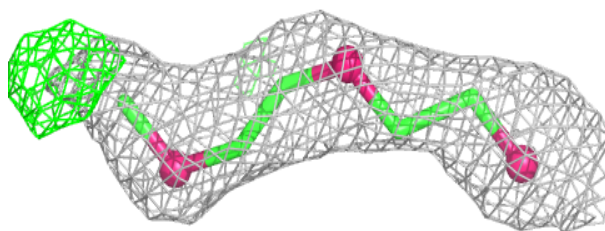
**Electron density around C8E A 506:**

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

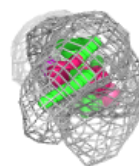
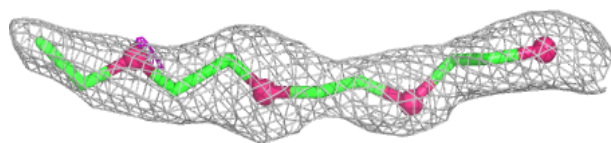
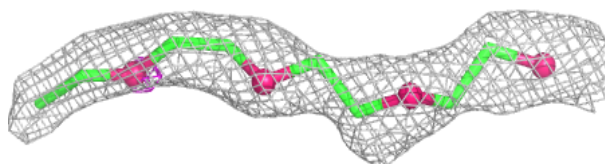


Electron density around C8E F 402:

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

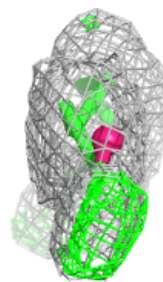
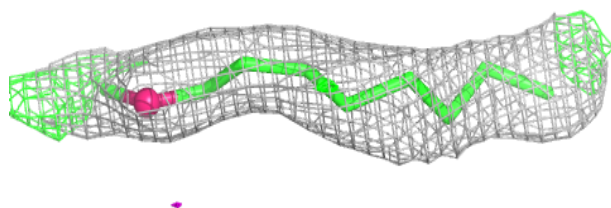
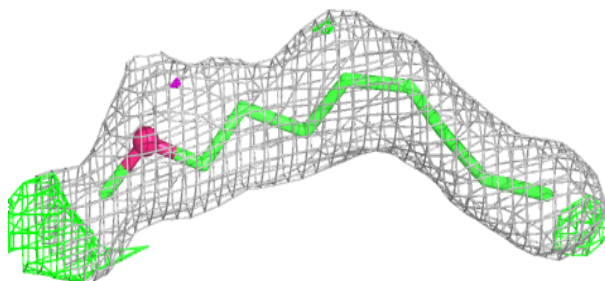
**Electron density around C8E A 507:**

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



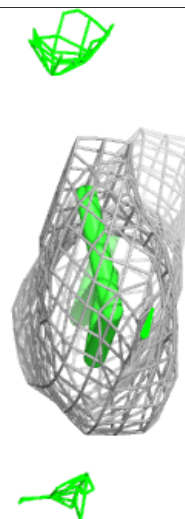
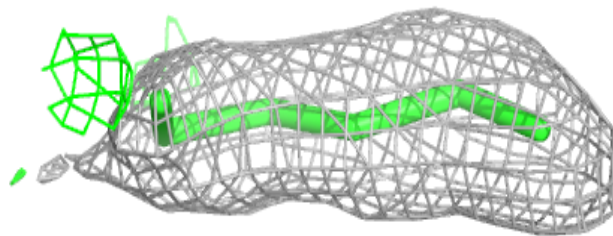
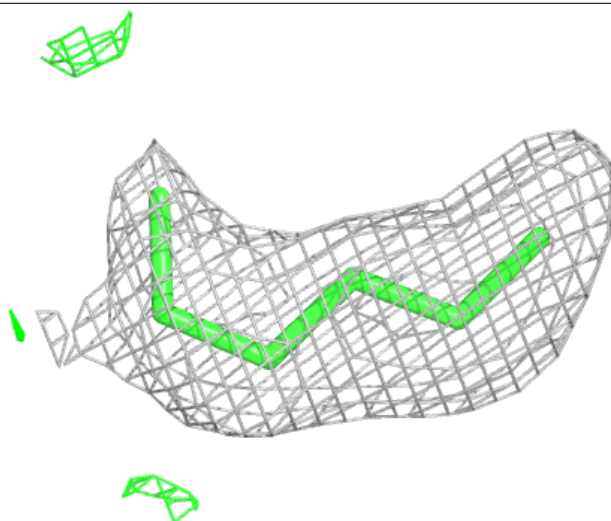
Electron density around C8E B 806:

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



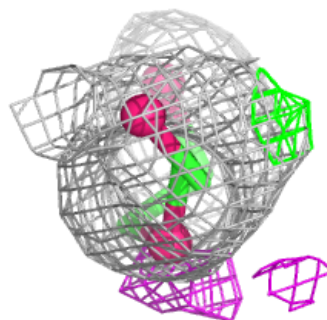
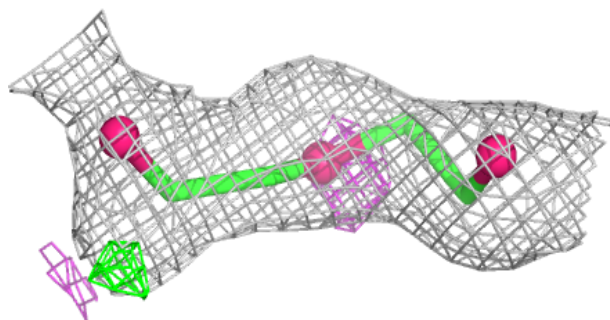
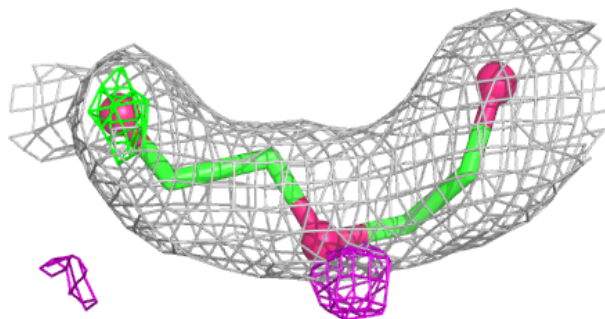
Electron density around C8E E 405:

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



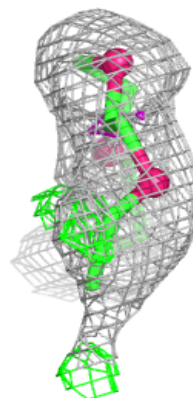
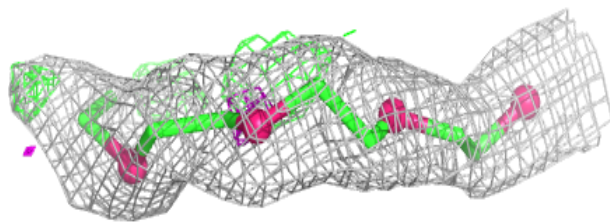
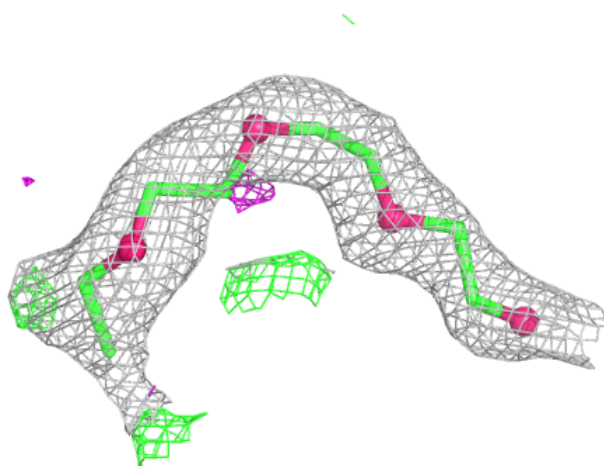
Electron density around C8E C 402:

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



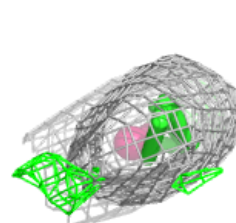
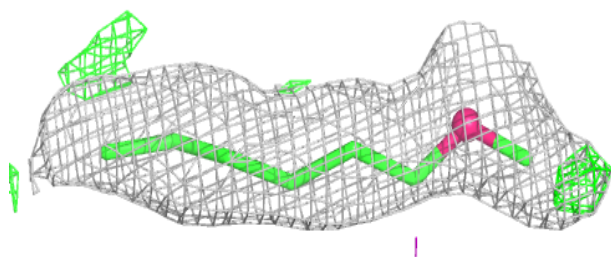
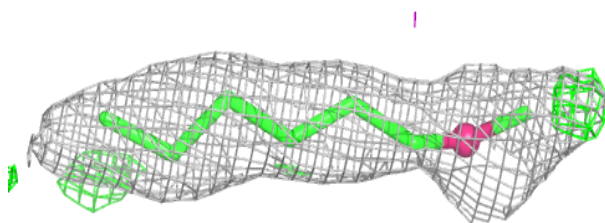
Electron density around C8E B 807:

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

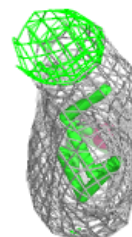
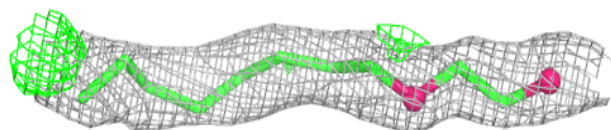
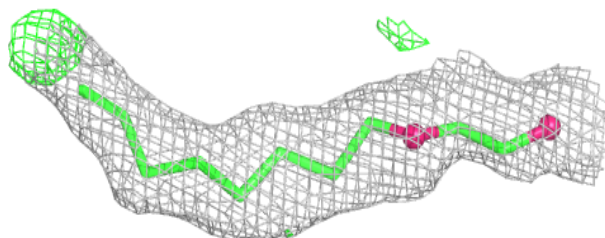


Electron density around C8E B 801:

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

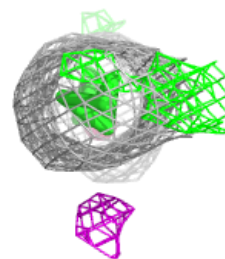
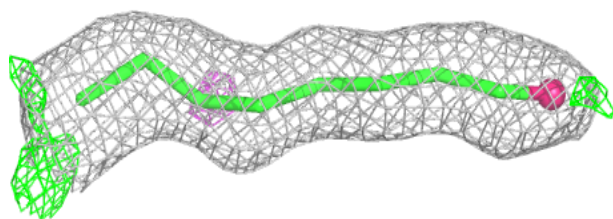
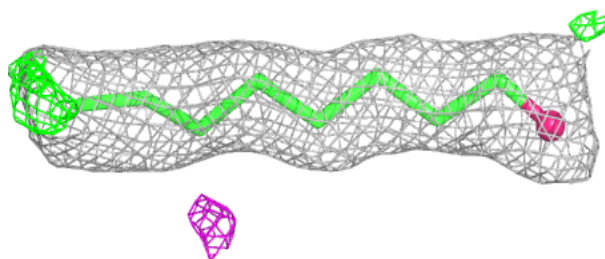
**Electron density around C8E E 403:**

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

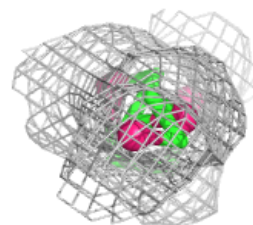
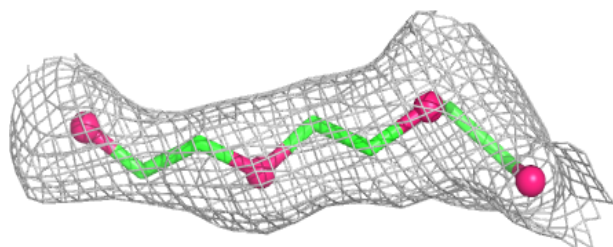
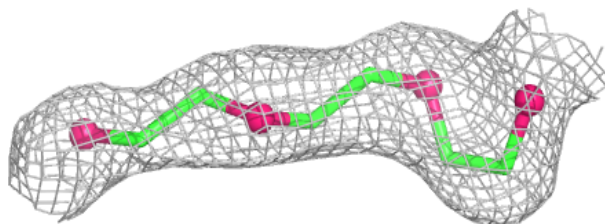


Electron density around C8E A 502:

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

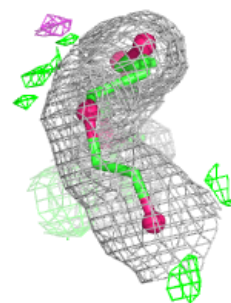
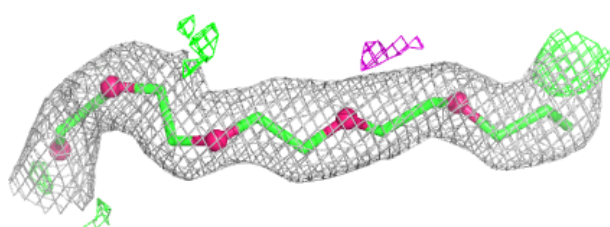
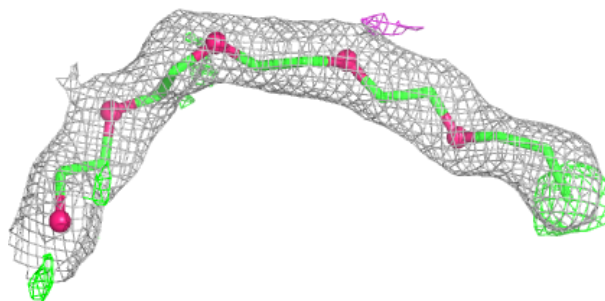
**Electron density around C8E A 505:**

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

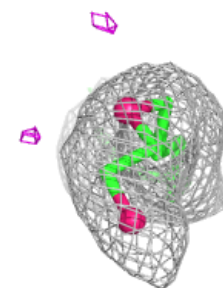
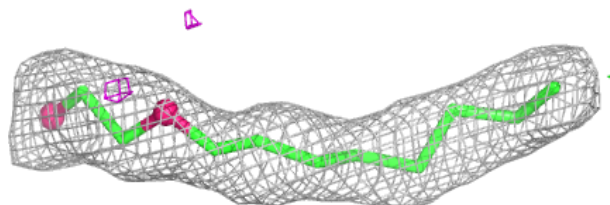
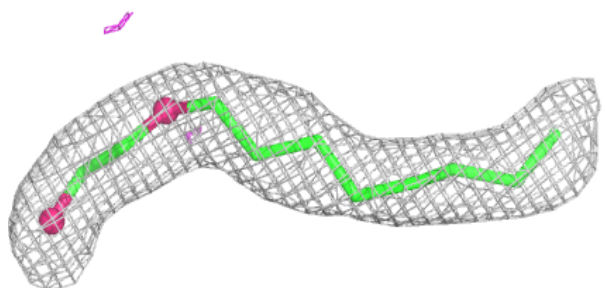


Electron density around C8E F 403:

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

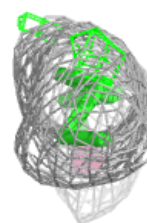
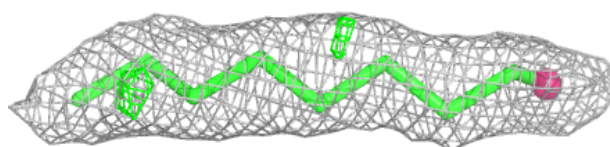
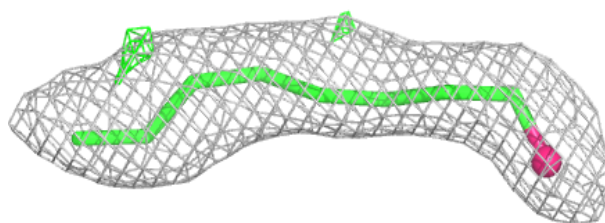
**Electron density around C8E D 403:**

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

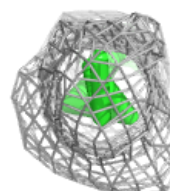
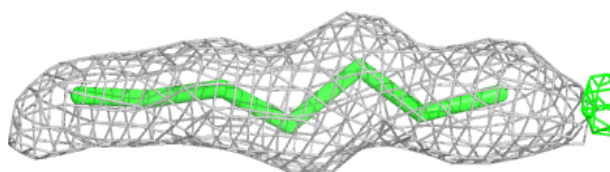
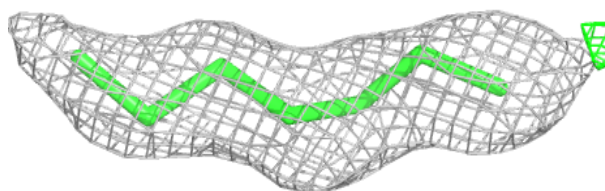


Electron density around C8E B 803:

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

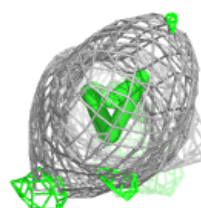
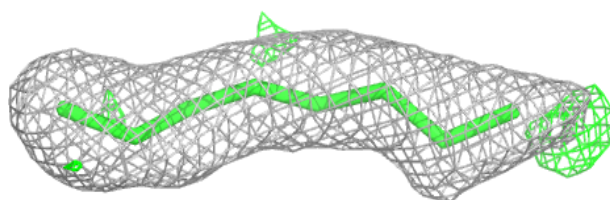
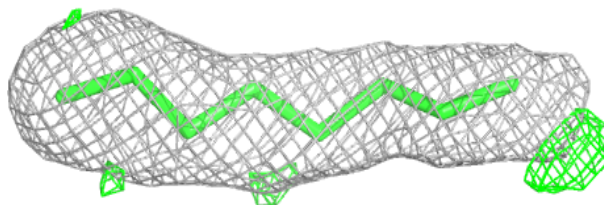
**Electron density around C8E E 402:**

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

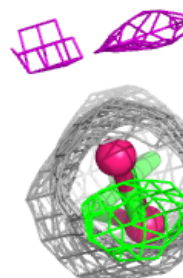
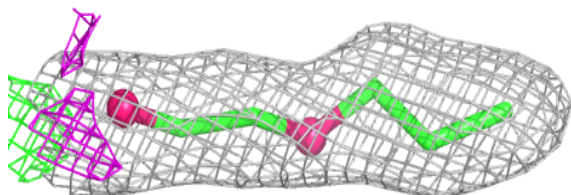
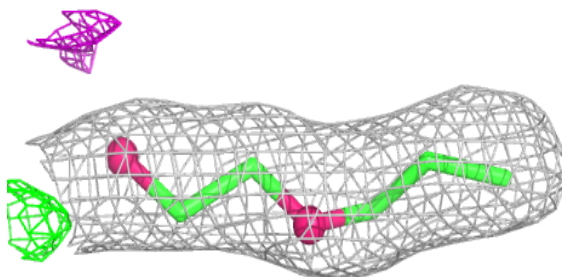


Electron density around C8E F 401:

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

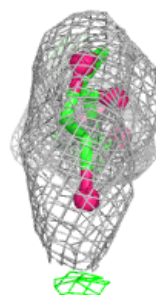
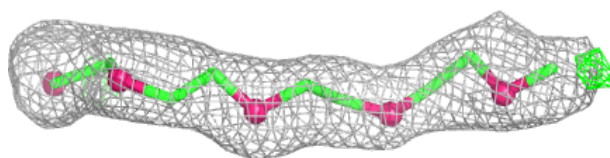
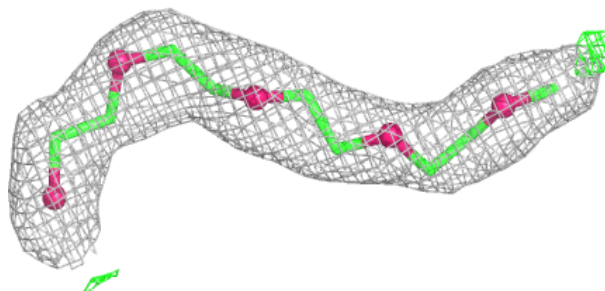
**Electron density around C8E D 402:**

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

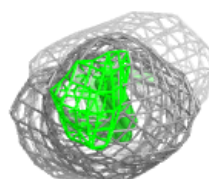
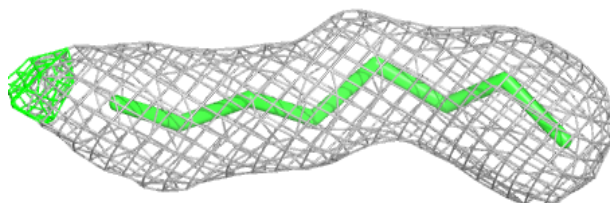
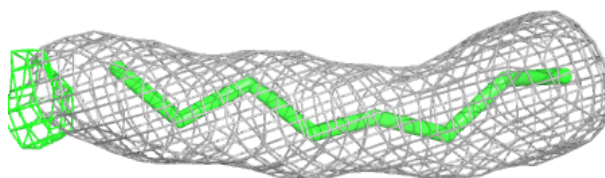


Electron density around C8E A 503:

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

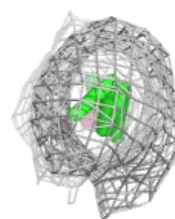
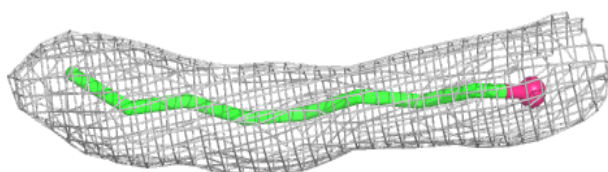
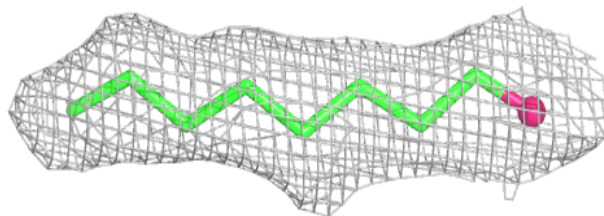
**Electron density around C8E B 805:**

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

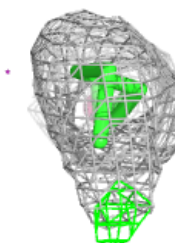
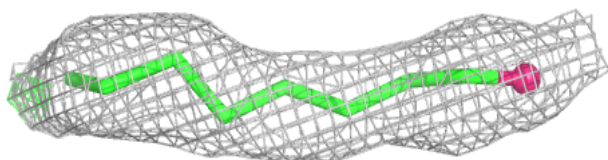
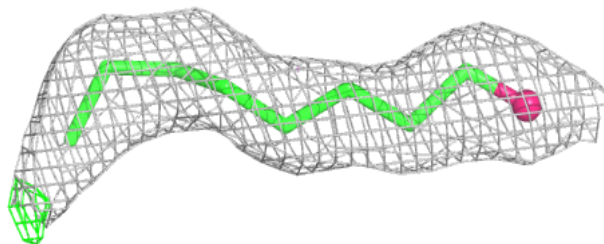


Electron density around C8E E 401:

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

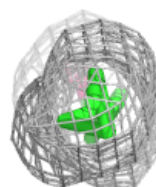
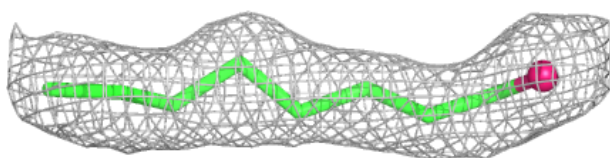
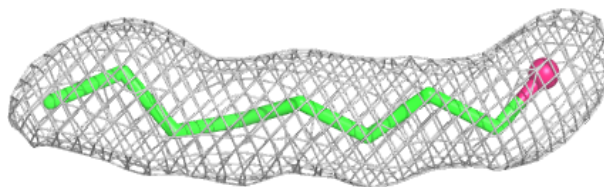
**Electron density around C8E B 804:**

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

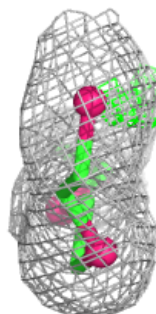
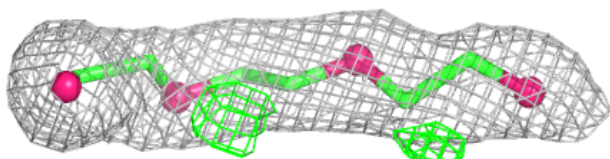
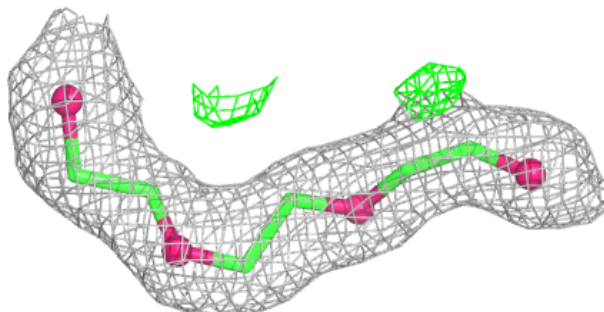


Electron density around C8E A 501:

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

**Electron density around C8E E 404:**

$2mF_o-DF_c$ (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.