



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 04:55 PM UTC

PDB ID : 6XYT / pdb_00006xyt
Title : Crystal structure of the O-state of the light-driven sodium pump KR2 in the pentameric form, pH 8.0
Authors : Kovalev, K.; Gushchin, I.; Gordeliy, V.
Deposited on : 2020-01-31
Resolution : 2.10 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

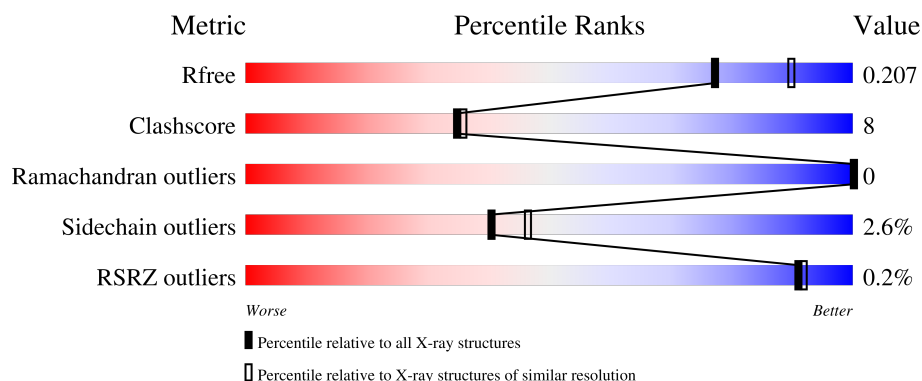
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	273	 83% 15% ..
1	B	273	 82% 17% .
1	C	273	 83% 15% .
1	D	273	 84% 14% ..
1	E	273	 81% 16% ..

2 Entry composition [i](#)

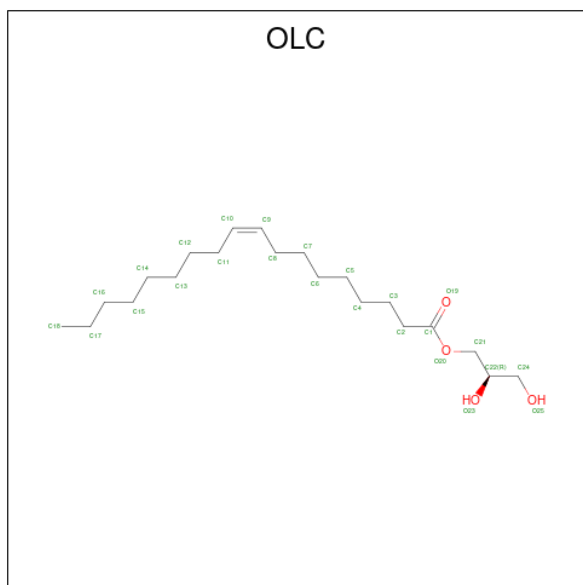
There are 8 unique types of molecules in this entry. The entry contains 12391 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Sodium pumping rhodopsin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	270	Total	C	N	O	S	0	1	0
			2168	1451	325	383	9			
1	B	272	Total	C	N	O	S	0	2	0
			2191	1463	331	388	9			
1	C	273	Total	C	N	O	S	0	1	0
			2198	1470	330	389	9			
1	D	270	Total	C	N	O	S	0	2	0
			2180	1457	328	386	9			
1	E	270	Total	C	N	O	S	0	1	0
			2170	1452	326	383	9			

- Molecule 2 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (CCD ID: OLC) (formula: C₂₁H₄₀O₄).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	C	0	0
			9	9		

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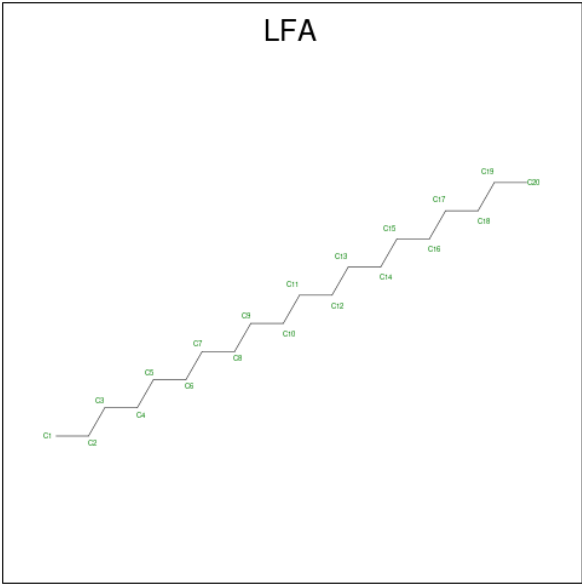
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			17	15	2		
2	A	1	Total	C	O	0	0
			25	21	4		
2	A	1	Total	C	O	0	0
			13	9	4		
2	A	1	Total	C	O	0	0
			25	21	4		
2	A	1	Total	C	O	0	0
			15	11	4		
2	A	1	Total	C	O	0	0
			20	18	2		
2	B	1	Total	C	O	0	0
			22	18	4		
2	B	1	Total	C	O	0	0
			25	21	4		
2	B	1	Total	C	O	0	0
			21	17	4		
2	B	1	Total	C	O	0	0
			20	16	4		
2	B	1	Total	C	O	0	0
			21	17	4		
2	B	1	Total	C	O	0	0
			16	12	4		
2	C	1	Total	C	O	0	0
			20	16	4		
2	C	1	Total	C	O	0	0
			23	19	4		
2	C	1	Total	C	O	0	0
			22	18	4		
2	C	1	Total	C	O	0	0
			20	16	4		
2	C	1	Total	C	O	0	0
			22	18	4		
2	C	1	Total	C	O	0	0
			16	12	4		
2	C	1	Total	C	O	0	0
			18	14	4		
2	D	1	Total	C	O	0	0
			13	9	4		
2	D	1	Total	C	O	0	0
			25	21	4		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	1	Total C O 18 14 4	0	0
2	D	1	Total C O 18 16 2	0	0
2	D	1	Total C O 14 10 4	0	0
2	E	1	Total C O 19 17 2	0	0
2	E	1	Total C O 25 21 4	0	0
2	E	1	Total C 8 8	0	0
2	E	1	Total C 16 16	0	0
2	E	1	Total C O 20 16 4	0	0
2	E	1	Total C O 15 11 4	0	0
2	E	1	Total C O 15 11 4	0	0
2	E	1	Total C O 20 16 4	0	0

- Molecule 3 is EICOSANE (CCD ID: LFA) (formula: C₂₀H₄₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C 7 7	0	0
3	A	1	Total C 8 8	0	0
3	A	1	Total C 8 8	0	0
3	A	1	Total C 4 4	0	0
3	A	1	Total C 6 6	0	0
3	A	1	Total C 16 16	0	0
3	A	1	Total C 9 9	0	0
3	B	1	Total C 9 9	0	0
3	B	1	Total C 8 8	0	0
3	B	1	Total C 10 10	0	0
3	B	1	Total C 7 7	0	0
3	C	1	Total C 7 7	0	0
3	C	1	Total C 8 8	0	0
3	C	1	Total C 20 20	0	0
3	D	1	Total C 20 20	0	0
3	D	1	Total C 20 20	0	0
3	D	1	Total C 8 8	0	0
3	D	1	Total C 17 17	0	0
3	D	1	Total C 7 7	0	0
3	D	1	Total C 6 6	0	0
3	E	1	Total C 8 8	0	0
3	E	1	Total C 14 14	0	0

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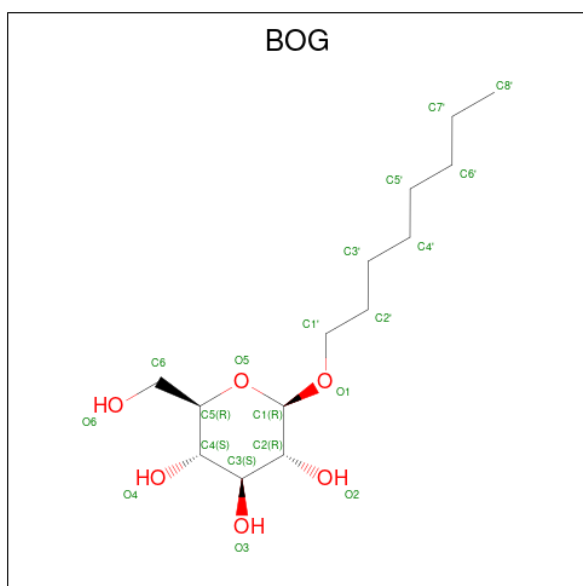
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	E	1	Total C 4 4	0	0
3	E	1	Total C 5 5	0	0

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total Na 2 2	0	0
4	B	2	Total Na 2 2	0	0
4	C	2	Total Na 2 2	0	0
4	D	2	Total Na 2 2	0	0
4	E	2	Total Na 2 2	0	0

- Molecule 5 is octyl beta-D-glucopyranoside (CCD ID: BOG) (formula: C₁₄H₂₈O₆).



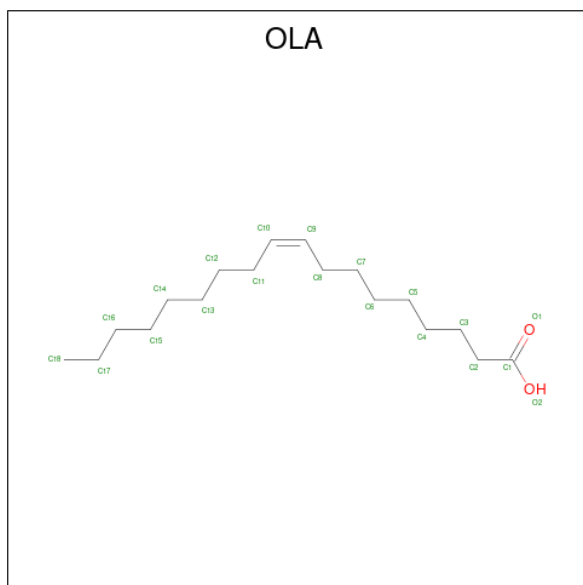
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 20 14 6	0	0
5	B	1	Total C O 20 14 6	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	C	1	Total	C	O	0	0
			20	14	6		
5	D	1	Total	C	O	0	0
			20	14	6		
5	E	1	Total	C	O	0	0
			20	14	6		

- Molecule 6 is OLEIC ACID (CCD ID: OLA) (formula: $C_{18}H_{34}O_2$).



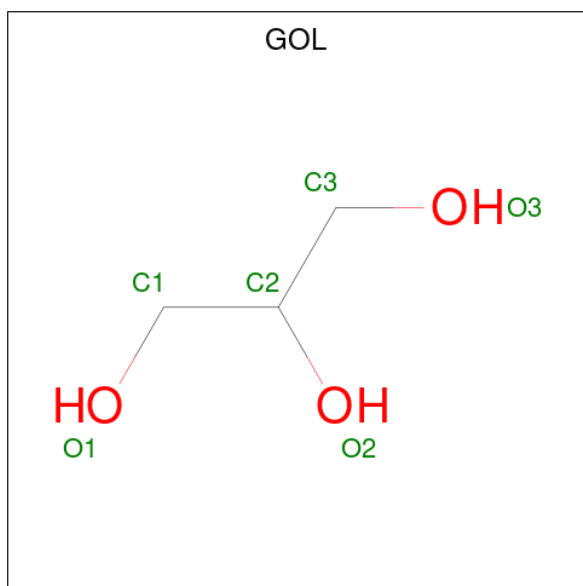
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			18	16	2		
6	A	1	Total	C	O	0	0
			6	4	2		
6	B	1	Total	C	O	0	0
			17	15	2		
6	B	1	Total	C	O	0	0
			17	15	2		
6	B	1	Total	C	O	0	0
			18	16	2		
6	B	1	Total	C	O	0	0
			5	3	2		
6	C	1	Total	C	O	0	0
			18	16	2		
6	C	1	Total	C	O	0	0
			18	16	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	D	1	Total	C	O	0	0
			20	18	2		
6	D	1	Total	C	O	0	0
			15	13	2		
6	D	1	Total	C	O	0	0
			18	16	2		
6	E	1	Total	C	O	0	0
			17	15	2		
6	E	1	Total	C	O	0	0
			7	5	2		
6	E	1	Total	C	O	0	0
			17	15	2		

- Molecule 7 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	C	O	0	0
			4	2	2		
7	C	1	Total	C	O	0	0
			4	2	2		
7	D	1	Total	C	O	0	0
			4	2	2		

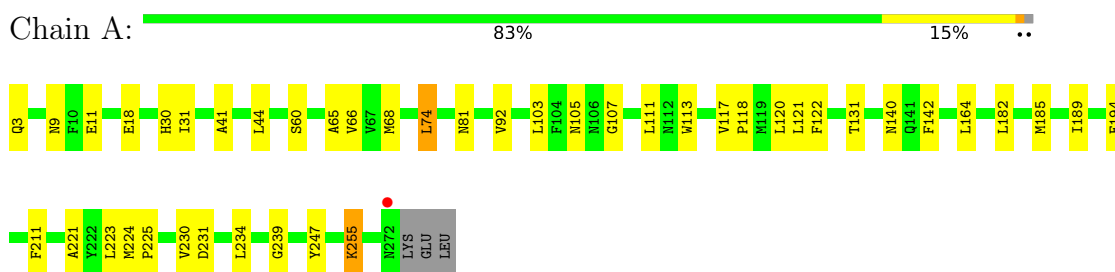
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	59	Total 59	O 59	0	0
8	B	56	Total 56	O 56	0	0
8	C	59	Total 60	O 60	0	1
8	D	61	Total 62	O 62	0	1
8	E	61	Total 62	O 62	0	1

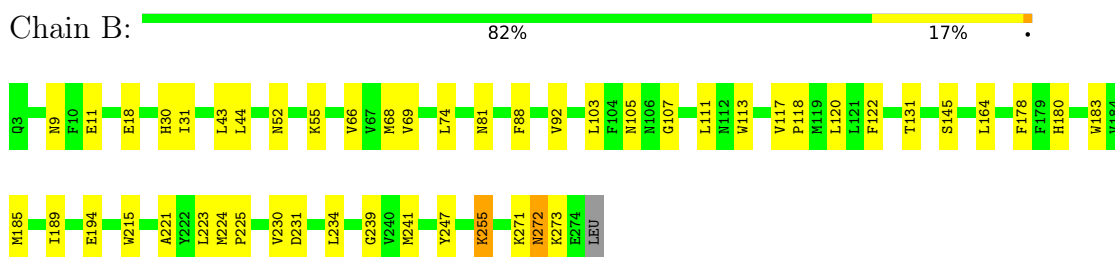
3 Residue-property plots

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.

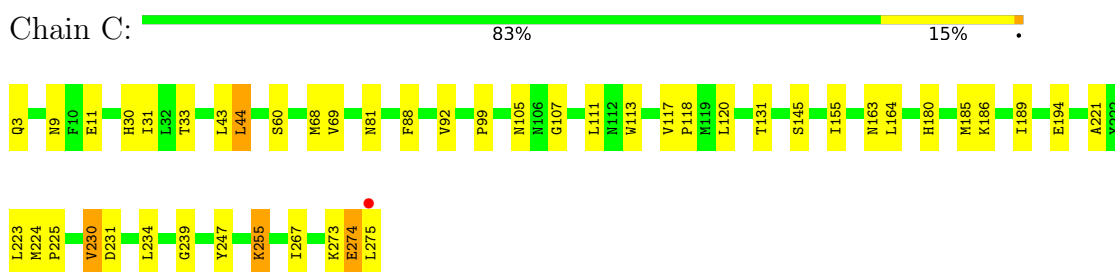
• Molecule 1: Sodium pumping rhodopsin



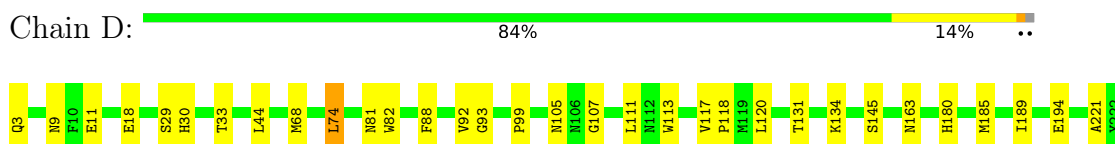
• Molecule 1: Sodium pumping rhodopsin



• Molecule 1: Sodium pumping rhodopsin

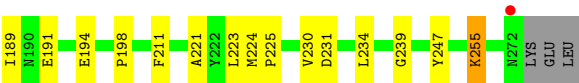
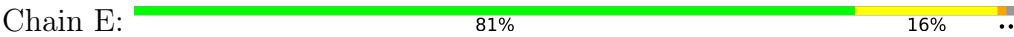


• Molecule 1: Sodium pumping rhodopsin





● Molecule 1: Sodium pumping rhodopsin



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	131.16Å 240.63Å 135.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.10 20.00 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.6 (20.00-2.10) 99.6 (20.00-2.10)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.60 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.8.0257	Depositor
R, R_{free}	0.179 , 0.197 0.193 , 0.207	Depositor DCC
R_{free} test set	6241 reflections (4.34%)	wwPDB-VP
Wilson B-factor (Å ²)	48.6	Xtriage
Anisotropy	0.544	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 66.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.000 for 1/2*h+1/2*k,3/2*h-1/2*k,-l 0.000 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	12391	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.79% 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: OLA, GOL, BOG, LYR, NA, LFA, OLC

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	0.93	0/2196	1.44	0/2987
1	B	0.93	0/2219	1.43	0/3017
1	C	0.94	0/2226	1.43	0/3026
1	D	0.93	0/2208	1.45	0/3002
1	E	0.93	0/2198	1.43	0/2989
All	All	0.93	0/11047	1.44	0/15021

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	2168	0	2143	37	0
1	B	2191	0	2169	40	0
1	C	2198	0	2179	47	0
1	D	2180	0	2160	34	0
1	E	2170	0	2150	40	0
2	A	124	0	183	2	0
2	B	125	0	177	1	0
2	C	141	0	193	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	88	0	121	4	0
2	E	138	0	198	5	0
3	A	58	0	109	0	0
3	B	34	0	64	1	0
3	C	35	0	70	3	0
3	D	78	0	156	4	0
3	E	31	0	58	0	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
4	C	2	0	0	0	0
4	D	2	0	0	0	0
4	E	2	0	0	0	0
5	A	20	0	28	3	0
5	B	20	0	28	1	0
5	C	20	0	28	3	0
5	D	20	0	28	1	0
5	E	20	0	28	2	0
6	A	24	0	30	2	0
6	B	57	0	76	3	0
6	C	36	0	52	1	0
6	D	53	0	79	3	0
6	E	41	0	54	0	0
7	B	4	0	4	0	0
7	C	4	0	4	0	0
7	D	4	0	3	0	0
8	A	59	0	0	3	0
8	B	56	0	0	1	0
8	C	60	0	0	4	0
8	D	62	0	0	3	0
8	E	62	0	0	7	0
All	All	12391	0	12572	186	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 8.

The worst 5 of 186 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:131:THR:HG21	1:A:194:GLU:OE1	1.80	0.82
1:D:131:THR:HG21	1:D:194:GLU:OE1	1.82	0.79
1:E:131:THR:HG21	1:E:194:GLU:OE1	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:GLU:OE1	8:B:401:HOH:O	2.00	0.78
1:C:131:THR:HG21	1:C:194:GLU:OE1	1.84	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	268/273 (98%)	263 (98%)	5 (2%)	0	100	100
1	B	271/273 (99%)	266 (98%)	5 (2%)	0	100	100
1	C	271/273 (99%)	265 (98%)	6 (2%)	0	100	100
1	D	269/273 (98%)	264 (98%)	5 (2%)	0	100	100
1	E	268/273 (98%)	263 (98%)	5 (2%)	0	100	100
All	All	1347/1365 (99%)	1321 (98%)	26 (2%)	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	226/233 (97%)	221 (98%)	5 (2%)	45	53
1	B	230/233 (99%)	223 (97%)	7 (3%)	36	41

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	230/233 (99%)	224 (97%)	6 (3%)	40	46
1	D	229/233 (98%)	224 (98%)	5 (2%)	45	53
1	E	227/233 (97%)	221 (97%)	6 (3%)	40	46
All	All	1142/1165 (98%)	1113 (98%)	29 (2%)	40	48

5 of 29 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	111	LEU
1	E	134	LYS
1	C	274	GLU
1	E	74	LEU
1	C	273	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 18 such sidechains are listed below:

Mol	Chain	Res	Type
1	E	78	GLN
1	E	180	HIS
1	E	141	GLN
1	C	78	GLN
1	D	180	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

5 non-standard protein/DNA/RNA residues 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
1	LYR	B	255	1	27,29,30	1.07	2 (7%)	30,37,39	1.03	2 (6%)
1	LYR	A	255	1	27,29,30	1.08	3 (11%)	30,37,39	1.04	2 (6%)
1	LYR	C	255	1	27,29,30	1.10	2 (7%)	30,37,39	1.00	2 (6%)
1	LYR	D	255	1	27,29,30	1.08	2 (7%)	30,37,39	1.03	2 (6%)
1	LYR	E	255	1	27,29,30	1.07	3 (11%)	30,37,39	1.05	2 (6%)

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
1	LYR	B	255	1	-	4/22/40/42	0/1/1/1
1	LYR	A	255	1	-	4/22/40/42	0/1/1/1
1	LYR	C	255	1	-	4/22/40/42	0/1/1/1
1	LYR	D	255	1	-	4/22/40/42	0/1/1/1
1	LYR	E	255	1	-	4/22/40/42	0/1/1/1

The worst 5 of 12 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	255	LYR	C9-C80	-2.78	1.40	1.46
1	C	255	LYR	C9-C80	-2.76	1.40	1.46
1	D	255	LYR	C9-C80	-2.75	1.40	1.46
1	B	255	LYR	C9-C80	-2.74	1.40	1.46
1	E	255	LYR	C9-C80	-2.61	1.40	1.46

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	255	LYR	C8-C80-C7	-3.43	117.26	122.82
1	D	255	LYR	C8-C80-C7	-3.42	117.28	122.82
1	B	255	LYR	C8-C80-C7	-3.29	117.49	122.82
1	A	255	LYR	C8-C80-C7	-3.26	117.53	122.82
1	C	255	LYR	C8-C80-C7	-3.19	117.64	122.82

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	255	LYR	C1-C2-C3-C5
1	B	255	LYR	C1-C2-C3-C5
1	C	255	LYR	C1-C2-C3-C4
1	C	255	LYR	C1-C2-C3-C5
1	D	255	LYR	C1-C2-C3-C5

There are no ring outliers.

5 monomers are involved in 31 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	255	LYR	6	0
1	A	255	LYR	6	0
1	C	255	LYR	6	0
1	D	255	LYR	7	0
1	E	255	LYR	6	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 89 ligands modelled in this entry, 10 are monoatomic - leaving 79 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	OLC	C	304	-	19,19,24	1.04	1 (5%)	20,20,25	1.05	2 (10%)
3	LFA	B	309	-	9,9,19	0.09	0	8,8,18	0.10	0
2	OLC	A	305	-	24,24,24	0.98	1 (4%)	25,25,25	0.92	2 (8%)
2	OLC	C	302	-	22,22,24	0.94	1 (4%)	23,23,25	0.90	2 (8%)
2	OLC	D	405	-	24,24,24	0.93	1 (4%)	25,25,25	0.82	1 (4%)
3	LFA	C	308	-	7,7,19	0.11	0	6,6,18	0.10	0
3	LFA	B	307	-	8,8,19	0.10	0	7,7,18	0.07	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	BOG	D	416	-	20,20,20	0.54	1 (5%)	25,25,25	0.58	0
2	OLC	A	302	-	16,16,24	1.22	1 (6%)	16,16,25	0.92	1 (6%)
3	LFA	A	308	-	7,7,19	0.11	0	6,6,18	0.07	0
6	OLA	C	314	-	17,17,19	0.54	0	17,17,19	0.51	0
3	LFA	D	413	-	6,6,19	0.12	0	5,5,18	0.08	0
7	GOL	B	313	-	3,3,5	0.31	0	2,2,5	0.22	0
5	BOG	A	314	-	20,20,20	0.52	0	25,25,25	0.59	0
2	OLC	A	306	-	14,14,24	1.18	1 (7%)	15,15,25	1.08	2 (13%)
6	OLA	E	316	-	6,6,19	0.90	0	6,6,19	0.82	0
7	GOL	D	402	-	3,3,5	0.31	0	2,2,5	0.22	0
2	OLC	A	303	-	24,24,24	0.97	1 (4%)	25,25,25	0.88	2 (8%)
2	OLC	E	305	-	15,15,24	0.29	0	14,14,25	0.50	0
5	BOG	B	312	-	20,20,20	0.52	0	25,25,25	0.54	0
3	LFA	A	312	-	15,15,19	0.07	0	14,14,18	0.07	0
2	OLC	B	301	-	21,21,24	1.05	1 (4%)	22,22,25	0.89	2 (9%)
2	OLC	E	304	-	7,7,24	0.29	0	6,6,25	0.41	0
6	OLA	B	315	-	16,16,19	0.57	0	16,16,19	0.51	0
2	OLC	D	406	-	17,17,24	1.12	1 (5%)	18,18,25	1.13	2 (11%)
2	OLC	E	308	-	14,14,24	1.19	1 (7%)	15,15,25	0.93	2 (13%)
2	OLC	C	305	-	21,21,24	1.03	1 (4%)	22,22,25	1.00	2 (9%)
3	LFA	C	309	-	19,19,19	0.09	0	18,18,18	0.05	0
2	OLC	E	306	-	19,19,24	1.12	1 (5%)	20,20,25	1.00	1 (5%)
3	LFA	E	311	-	13,13,19	0.07	0	12,12,18	0.06	0
6	OLA	A	318	-	5,5,19	0.96	0	5,5,19	0.89	0
6	OLA	D	401	-	19,19,19	0.53	0	19,19,19	0.48	0
2	OLC	D	407	-	17,17,24	1.16	1 (5%)	17,17,25	0.89	1 (5%)
2	OLC	A	304	-	12,12,24	1.34	1 (8%)	13,13,25	1.17	1 (7%)
2	OLC	B	302	-	24,24,24	0.97	1 (4%)	25,25,25	0.89	2 (8%)
3	LFA	D	410	-	19,19,19	0.07	0	18,18,18	0.05	0
3	LFA	D	411	-	7,7,19	0.08	0	6,6,18	0.08	0
2	OLC	B	303	-	20,20,24	1.05	1 (5%)	21,21,25	0.92	1 (4%)
3	LFA	A	316	-	8,8,19	0.12	0	7,7,18	0.14	0
3	LFA	C	307	-	6,6,19	0.10	0	5,5,18	0.07	0
6	OLA	B	317	-	4,4,19	0.99	0	4,4,19	0.73	0
3	LFA	D	409	-	19,19,19	0.08	0	18,18,18	0.03	0
6	OLA	D	403	-	14,14,19	0.60	0	14,14,19	0.57	0
3	LFA	A	307	-	6,6,19	0.11	0	5,5,18	0.08	0
2	OLC	E	301	-	18,18,24	1.09	1 (5%)	18,18,25	0.86	0
2	OLC	C	303	-	21,21,24	1.04	1 (4%)	22,22,25	0.92	1 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	OLC	D	408	-	13,13,24	1.25	1 (7%)	14,14,25	0.98	2 (14%)
2	OLC	C	315	-	17,17,24	1.11	1 (5%)	18,18,25	1.03	1 (5%)
6	OLA	B	314	-	16,16,19	0.55	0	16,16,19	0.53	0
3	LFA	D	412	-	16,16,19	0.09	0	15,15,18	0.09	0
3	LFA	E	310	-	7,7,19	0.10	0	6,6,18	0.10	0
6	OLA	A	317	-	17,17,19	0.55	0	17,17,19	0.51	0
2	OLC	B	304	-	19,19,24	1.07	1 (5%)	20,20,25	1.01	2 (10%)
3	LFA	E	313	-	4,4,19	0.14	0	3,3,18	0.21	0
2	OLC	C	301	-	19,19,24	1.12	1 (5%)	20,20,25	0.96	2 (10%)
3	LFA	B	308	-	7,7,19	0.09	0	6,6,18	0.09	0
2	OLC	E	303	-	24,24,24	0.93	1 (4%)	25,25,25	0.85	1 (4%)
2	OLC	A	301	-	8,8,24	0.35	0	7,7,25	0.51	0
6	OLA	C	312	-	17,17,19	0.55	0	17,17,19	0.50	0
6	OLA	E	317	-	16,16,19	0.55	0	16,16,19	0.53	0
5	BOG	E	315	-	20,20,20	0.51	0	25,25,25	0.53	0
2	OLC	B	306	-	15,15,24	1.15	1 (6%)	16,16,25	1.05	2 (12%)
3	LFA	E	312	-	3,3,19	0.22	0	2,2,18	0.45	0
2	OLC	A	315	-	19,19,24	1.11	1 (5%)	19,19,25	0.88	1 (5%)
3	LFA	A	309	-	7,7,19	0.08	0	6,6,18	0.08	0
3	LFA	A	311	-	5,5,19	0.12	0	4,4,18	0.12	0
3	LFA	A	310	-	3,3,19	0.24	0	2,2,18	0.44	0
2	OLC	B	305	-	20,20,24	1.03	1 (5%)	21,21,25	0.90	1 (4%)
5	BOG	C	311	-	20,20,20	0.50	0	25,25,25	0.68	0
7	GOL	C	313	-	3,3,5	0.32	0	2,2,5	0.18	0
2	OLC	D	404	-	12,12,24	1.35	1 (8%)	13,13,25	1.14	1 (7%)
3	LFA	D	414	-	5,5,19	0.11	0	4,4,18	0.10	0
6	OLA	D	417	-	17,17,19	0.57	0	17,17,19	0.52	0
2	OLC	E	307	-	14,14,24	1.25	1 (7%)	15,15,25	1.13	1 (6%)
2	OLC	E	309	-	19,19,24	1.09	1 (5%)	20,20,25	1.03	2 (10%)
3	LFA	B	310	-	6,6,19	0.09	0	5,5,18	0.09	0
2	OLC	C	306	-	15,15,24	1.17	1 (6%)	16,16,25	0.93	1 (6%)
6	OLA	B	316	-	17,17,19	0.55	0	17,17,19	0.51	0
6	OLA	E	302	-	16,16,19	0.55	0	16,16,19	0.52	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	OLC	C	304	-	-	4/19/19/24	-
3	LFA	B	309	-	-	5/7/7/17	-
2	OLC	A	305	-	-	14/24/24/24	-
2	OLC	C	302	-	-	12/22/22/24	-
2	OLC	D	405	-	-	12/24/24/24	-
3	LFA	C	308	-	-	3/5/5/17	-
3	LFA	B	307	-	-	3/6/6/17	-
5	BOG	D	416	-	-	3/11/31/31	0/1/1/1
2	OLC	A	302	-	-	4/14/14/24	-
3	LFA	A	308	-	-	1/5/5/17	-
6	OLA	C	314	-	-	11/15/15/17	-
3	LFA	D	413	-	-	2/4/4/17	-
7	GOL	B	313	-	-	1/1/1/4	-
5	BOG	A	314	-	-	3/11/31/31	0/1/1/1
2	OLC	A	306	-	-	5/14/14/24	-
6	OLA	E	316	-	-	3/4/4/17	-
7	GOL	D	402	-	-	0/1/1/4	-
2	OLC	A	303	-	-	12/24/24/24	-
2	OLC	E	305	-	-	6/13/13/24	-
5	BOG	B	312	-	-	4/11/31/31	0/1/1/1
3	LFA	A	312	-	-	7/13/13/17	-
2	OLC	B	301	-	-	7/21/21/24	-
2	OLC	E	304	-	-	2/5/5/24	-
6	OLA	B	315	-	-	4/14/14/17	-
2	OLC	D	406	-	-	5/17/17/24	-
2	OLC	E	308	-	-	4/14/14/24	-
2	OLC	C	305	-	-	8/21/21/24	-
3	LFA	C	309	-	-	8/17/17/17	-
2	OLC	E	306	-	-	11/19/19/24	-
3	LFA	E	311	-	-	5/11/11/17	-
6	OLA	A	318	-	-	0/3/3/17	-
6	OLA	D	401	-	-	8/17/17/17	-
2	OLC	D	407	-	-	4/15/15/24	-
2	OLC	A	304	-	-	2/12/12/24	-
2	OLC	B	302	-	-	10/24/24/24	-
3	LFA	D	410	-	-	8/17/17/17	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	LFA	D	411	-	-	4/5/5/17	-
2	OLC	B	303	-	-	11/20/20/24	-
3	LFA	A	316	-	-	4/6/6/17	-
3	LFA	C	307	-	-	3/4/4/17	-
6	OLA	B	317	-	-	2/2/2/17	-
3	LFA	D	409	-	-	10/17/17/17	-
6	OLA	D	403	-	-	9/12/12/17	-
3	LFA	A	307	-	-	1/4/4/17	-
2	OLC	E	301	-	-	6/16/16/24	-
2	OLC	C	303	-	-	5/21/21/24	-
2	OLC	D	408	-	-	5/13/13/24	-
2	OLC	C	315	-	-	10/17/17/24	-
6	OLA	B	314	-	-	10/14/14/17	-
3	LFA	D	412	-	-	9/14/14/17	-
3	LFA	E	310	-	-	3/5/5/17	-
6	OLA	A	317	-	-	12/15/15/17	-
2	OLC	B	304	-	-	4/19/19/24	-
3	LFA	E	313	-	-	1/2/2/17	-
2	OLC	C	301	-	-	11/19/19/24	-
3	LFA	B	308	-	-	2/5/5/17	-
2	OLC	E	303	-	-	9/24/24/24	-
2	OLC	A	301	-	-	2/6/6/24	-
6	OLA	C	312	-	-	9/15/15/17	-
6	OLA	E	317	-	-	9/14/14/17	-
5	BOG	E	315	-	-	11/11/31/31	0/1/1/1
2	OLC	B	306	-	-	2/15/15/24	-
3	LFA	E	312	-	-	1/1/1/17	-
2	OLC	A	315	-	-	7/17/17/24	-
3	LFA	A	309	-	-	3/5/5/17	-
3	LFA	A	311	-	-	2/3/3/17	-
3	LFA	A	310	-	-	0/1/1/17	-
2	OLC	B	305	-	-	6/20/20/24	-
5	BOG	C	311	-	-	2/11/31/31	0/1/1/1
7	GOL	C	313	-	-	1/1/1/4	-
2	OLC	D	404	-	-	6/12/12/24	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	LFA	D	414	-	-	0/3/3/17	-
6	OLA	D	417	-	-	7/15/15/17	-
2	OLC	E	307	-	-	8/14/14/24	-
2	OLC	E	309	-	-	9/19/19/24	-
3	LFA	B	310	-	-	1/4/4/17	-
2	OLC	C	306	-	-	5/15/15/24	-
6	OLA	B	316	-	-	9/15/15/17	-
6	OLA	E	302	-	-	6/14/14/17	-

The worst 5 of 31 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	302	OLC	O20-C1	4.78	1.46	1.30
2	A	315	OLC	O20-C1	4.66	1.46	1.30
2	E	306	OLC	O20-C1	4.64	1.46	1.33
2	D	407	OLC	O20-C1	4.62	1.46	1.30
2	C	303	OLC	O20-C1	4.53	1.46	1.33

The worst 5 of 44 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	304	OLC	O20-C1-C2	3.24	121.72	111.83
2	D	406	OLC	O20-C1-C2	3.23	121.67	111.83
2	C	305	OLC	O20-C1-C2	3.19	121.57	111.83
2	E	309	OLC	O20-C1-C2	3.18	121.55	111.83
2	E	307	OLC	O20-C1-C2	3.16	121.47	111.83

There are no chirality outliers.

5 of 438 torsion outliers are listed below:

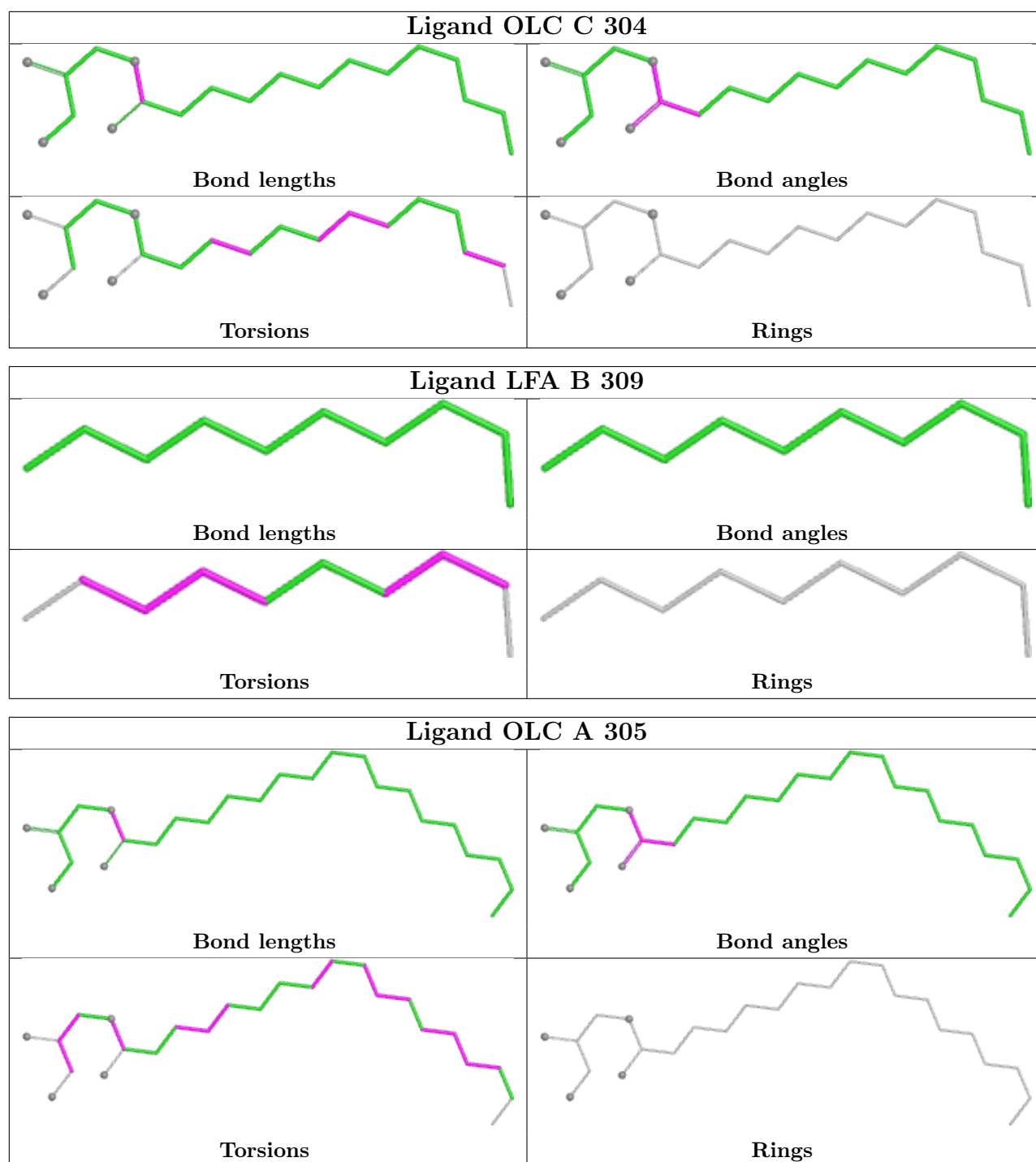
Mol	Chain	Res	Type	Atoms
2	A	303	OLC	C6-C7-C8-C9
2	A	304	OLC	O20-C21-C22-O23
2	A	305	OLC	C21-C22-C24-O25
2	A	305	OLC	O20-C21-C22-C24
2	A	305	OLC	O20-C21-C22-O23

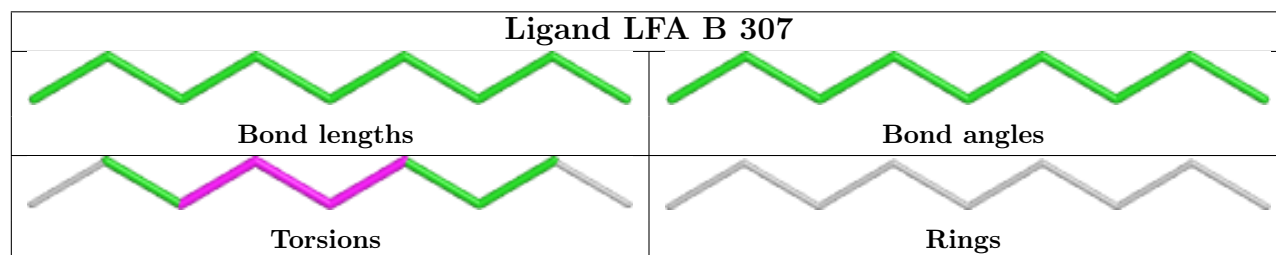
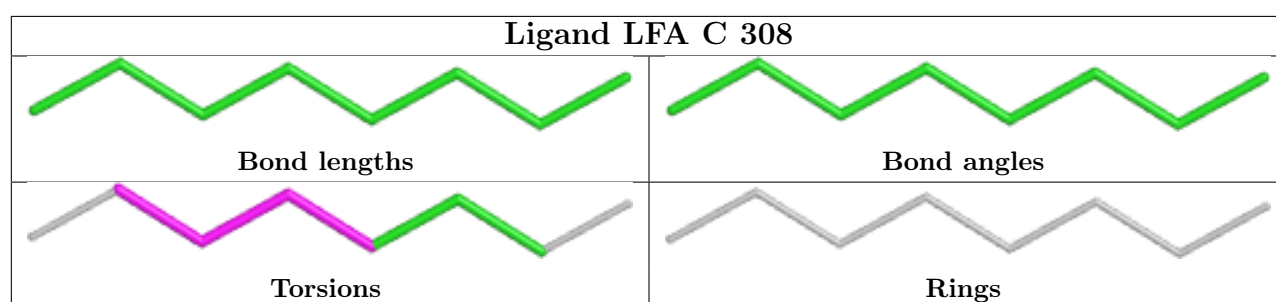
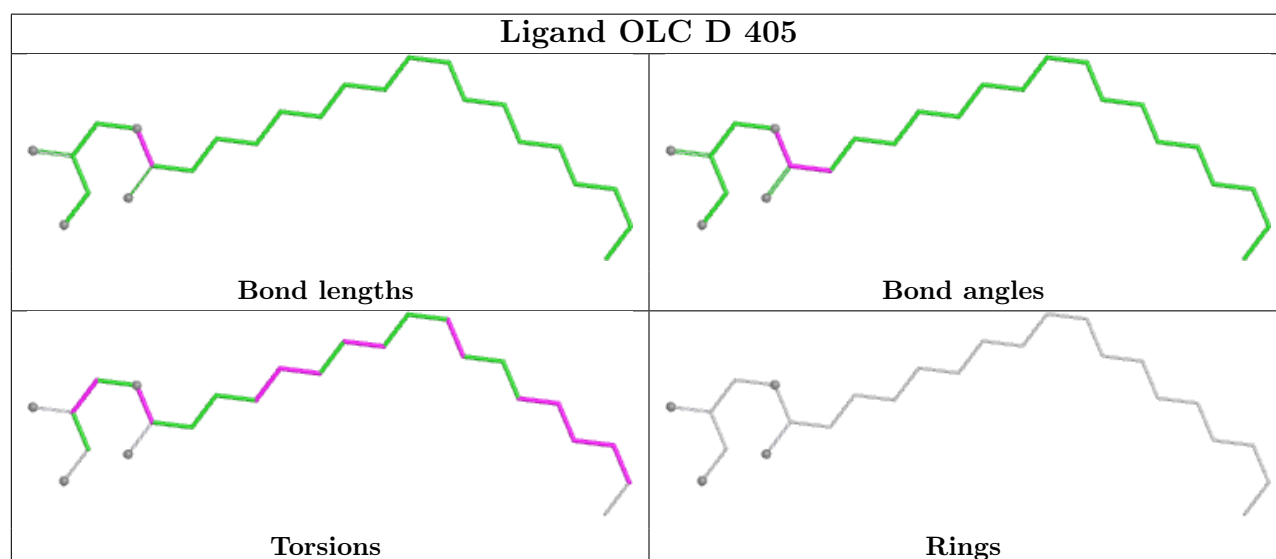
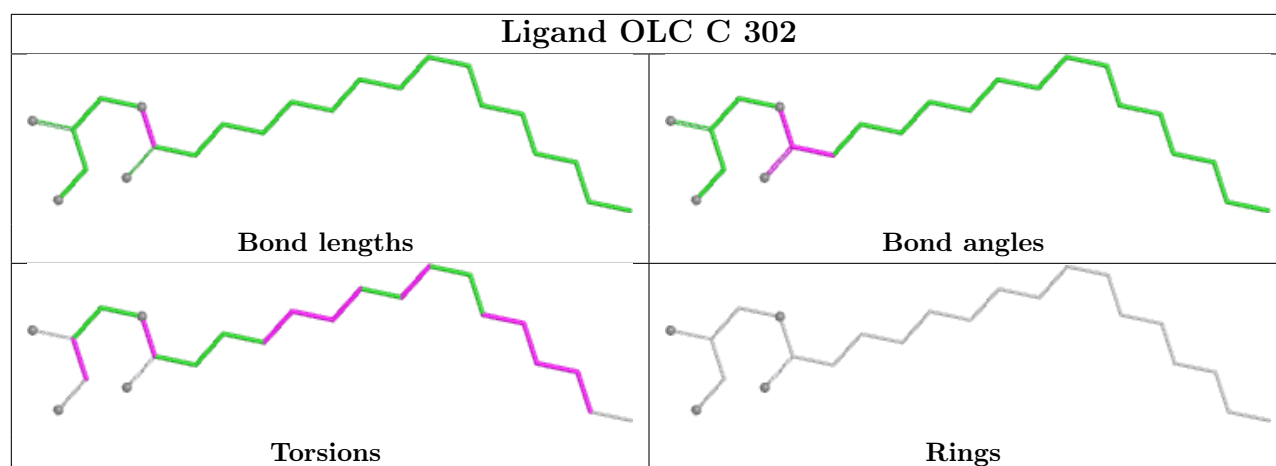
There are no ring outliers.

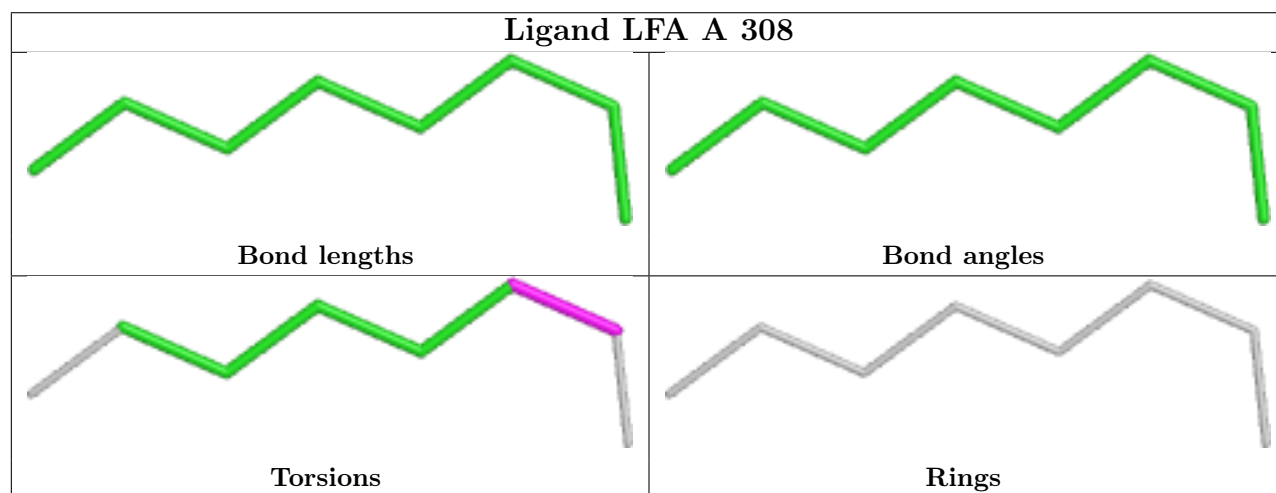
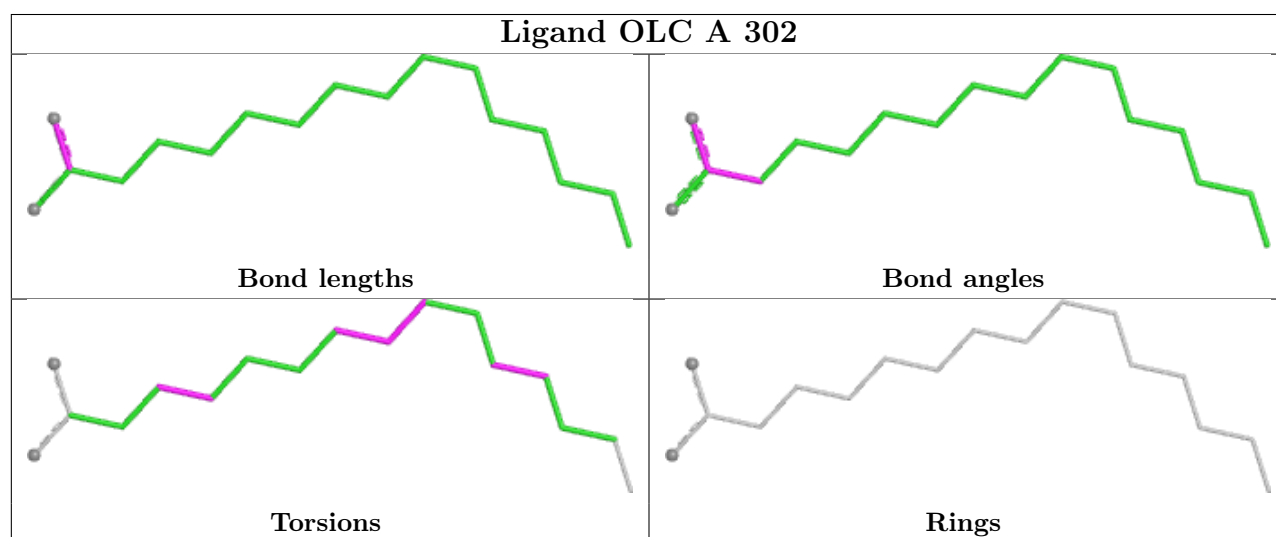
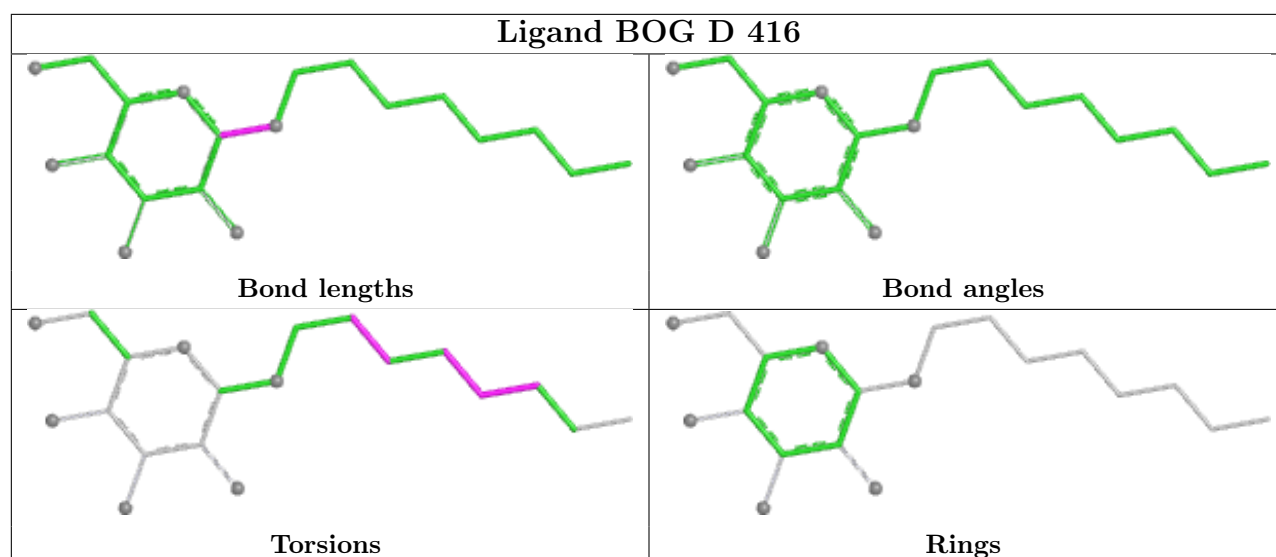
29 monomers are involved in 40 short contacts:

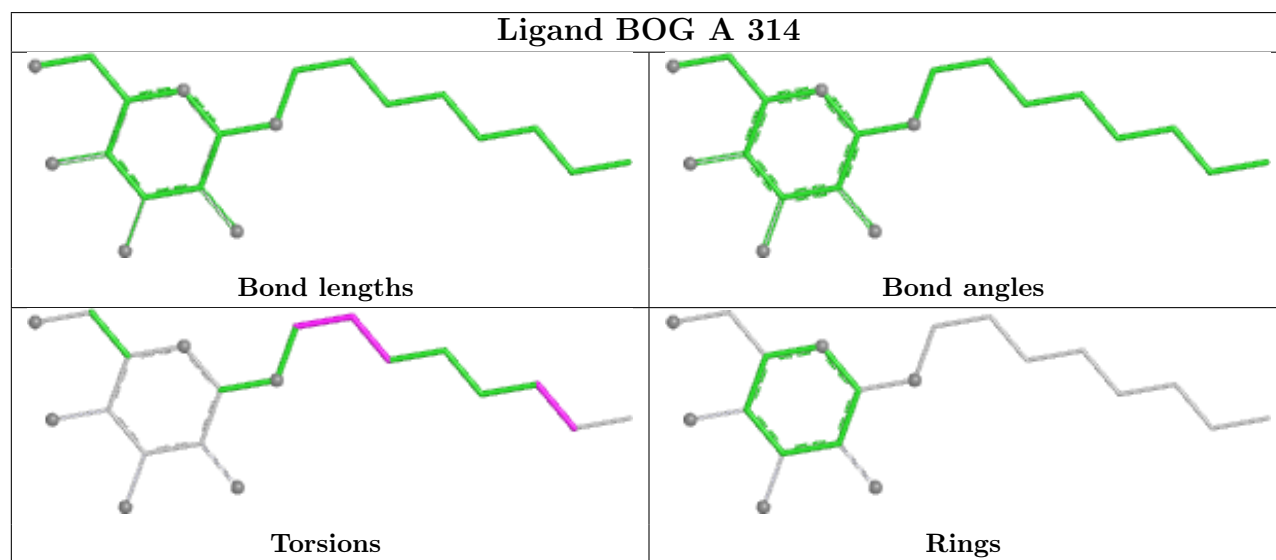
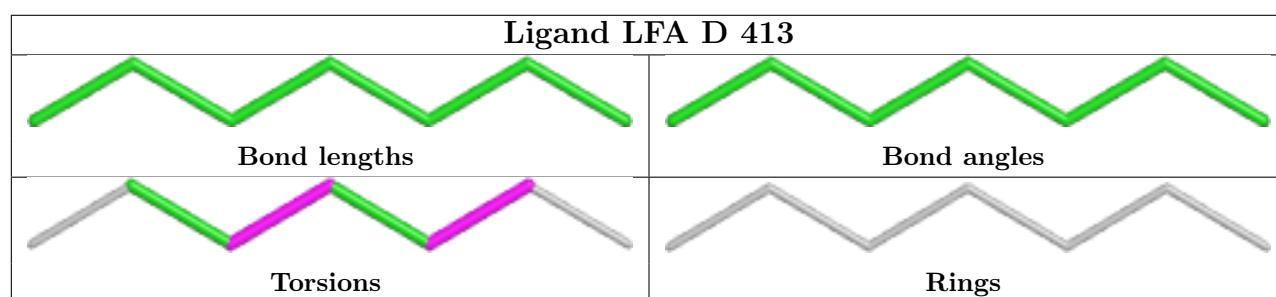
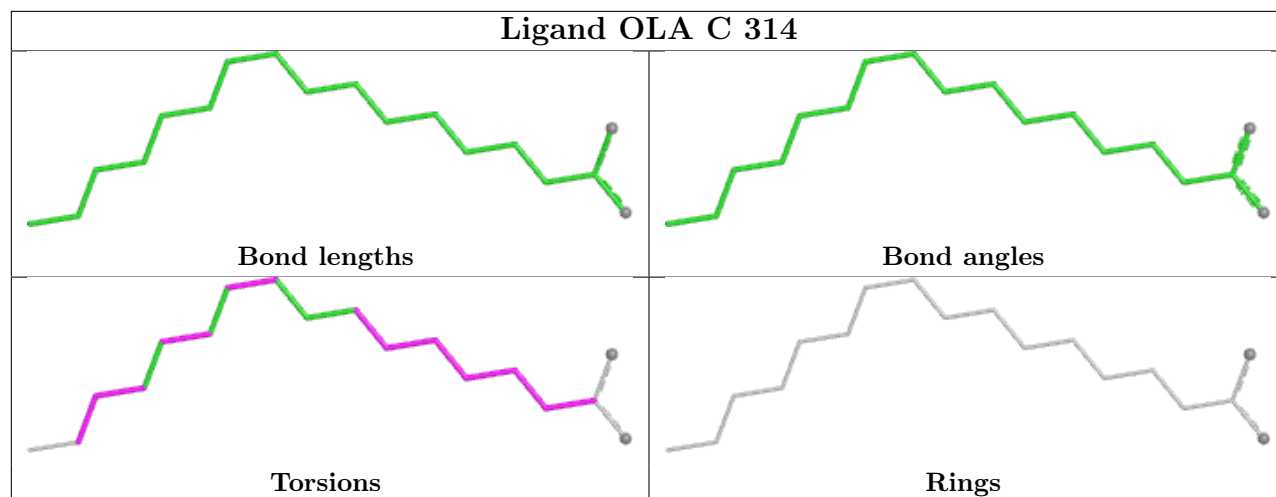
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	302	OLC	2	0
3	B	307	LFA	1	0
5	D	416	BOG	1	0
6	C	314	OLA	1	0
5	A	314	BOG	3	0
2	A	303	OLC	2	0
5	B	312	BOG	1	0
2	B	301	OLC	1	0
6	B	315	OLA	1	0
2	C	305	OLC	1	0
2	E	306	OLC	1	0
6	A	318	OLA	2	0
6	D	401	OLA	2	0
2	D	407	OLC	1	0
3	C	307	LFA	3	0
3	D	409	LFA	1	0
6	D	403	OLA	1	0
2	E	301	OLC	1	0
2	C	303	OLC	1	0
2	D	408	OLC	2	0
2	C	315	OLC	1	0
6	B	314	OLA	2	0
3	D	412	LFA	3	0
2	E	303	OLC	2	0
5	E	315	BOG	2	0
5	C	311	BOG	3	0
2	D	404	OLC	1	0
2	E	307	OLC	1	0
2	C	306	OLC	3	0

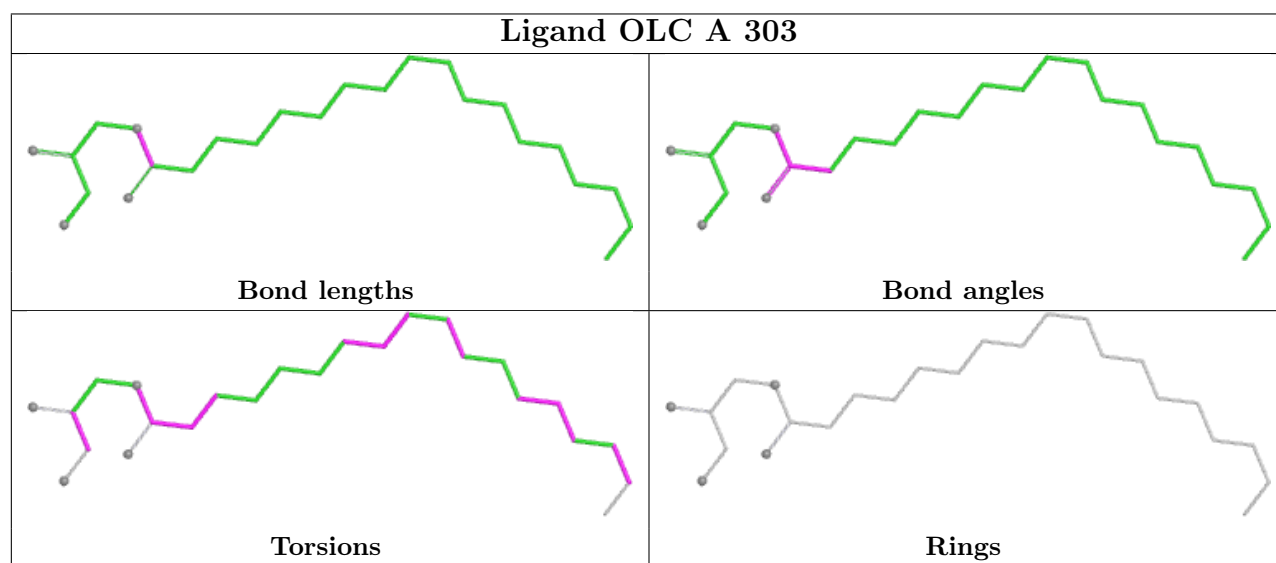
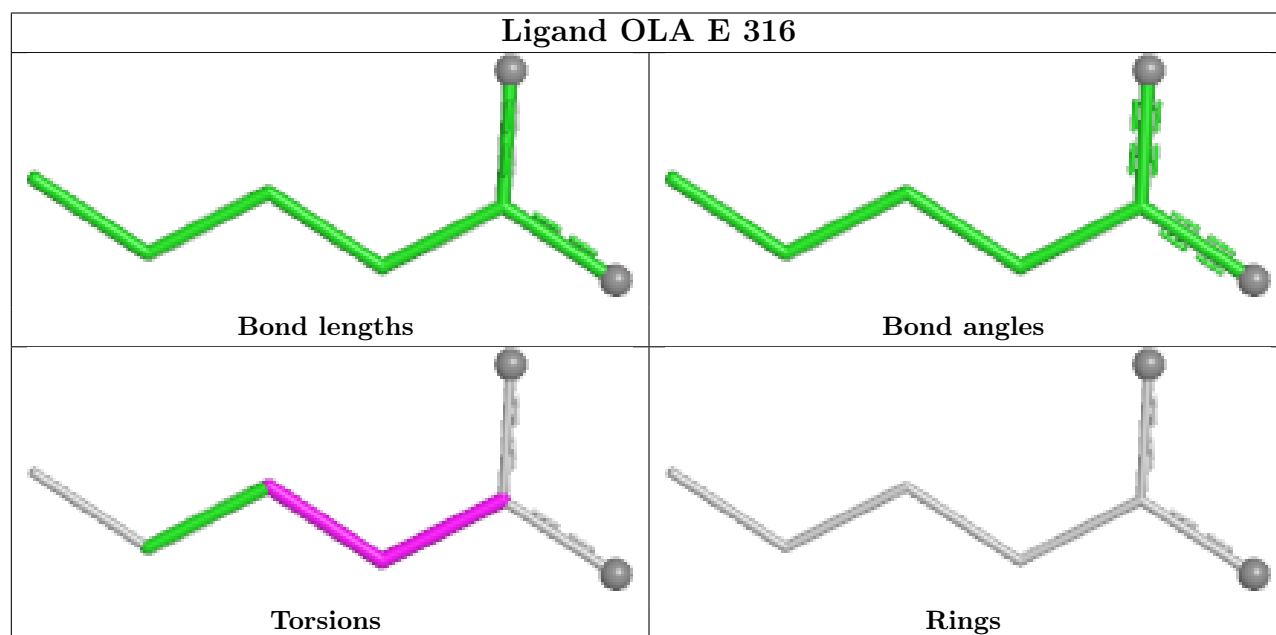
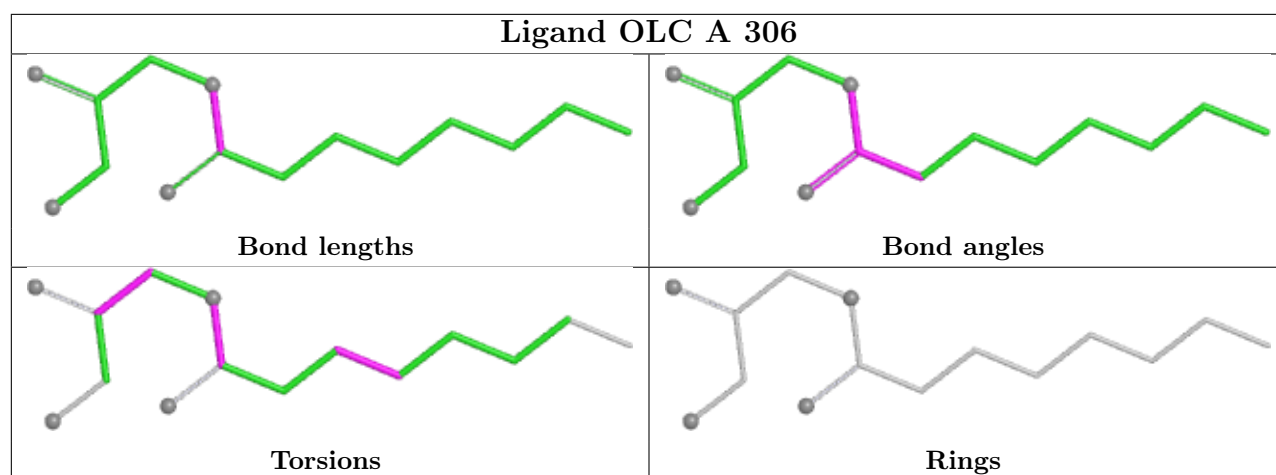
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

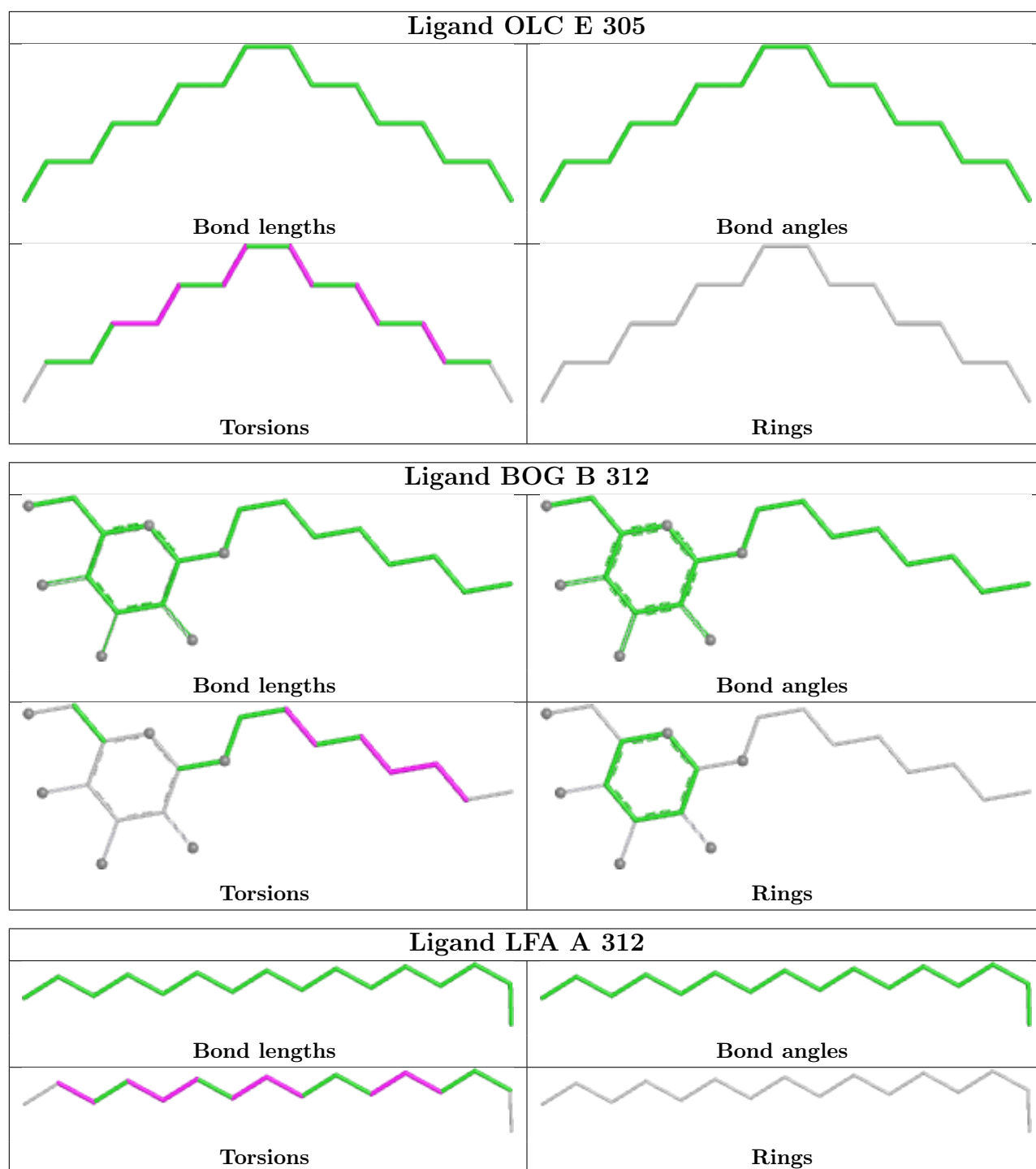


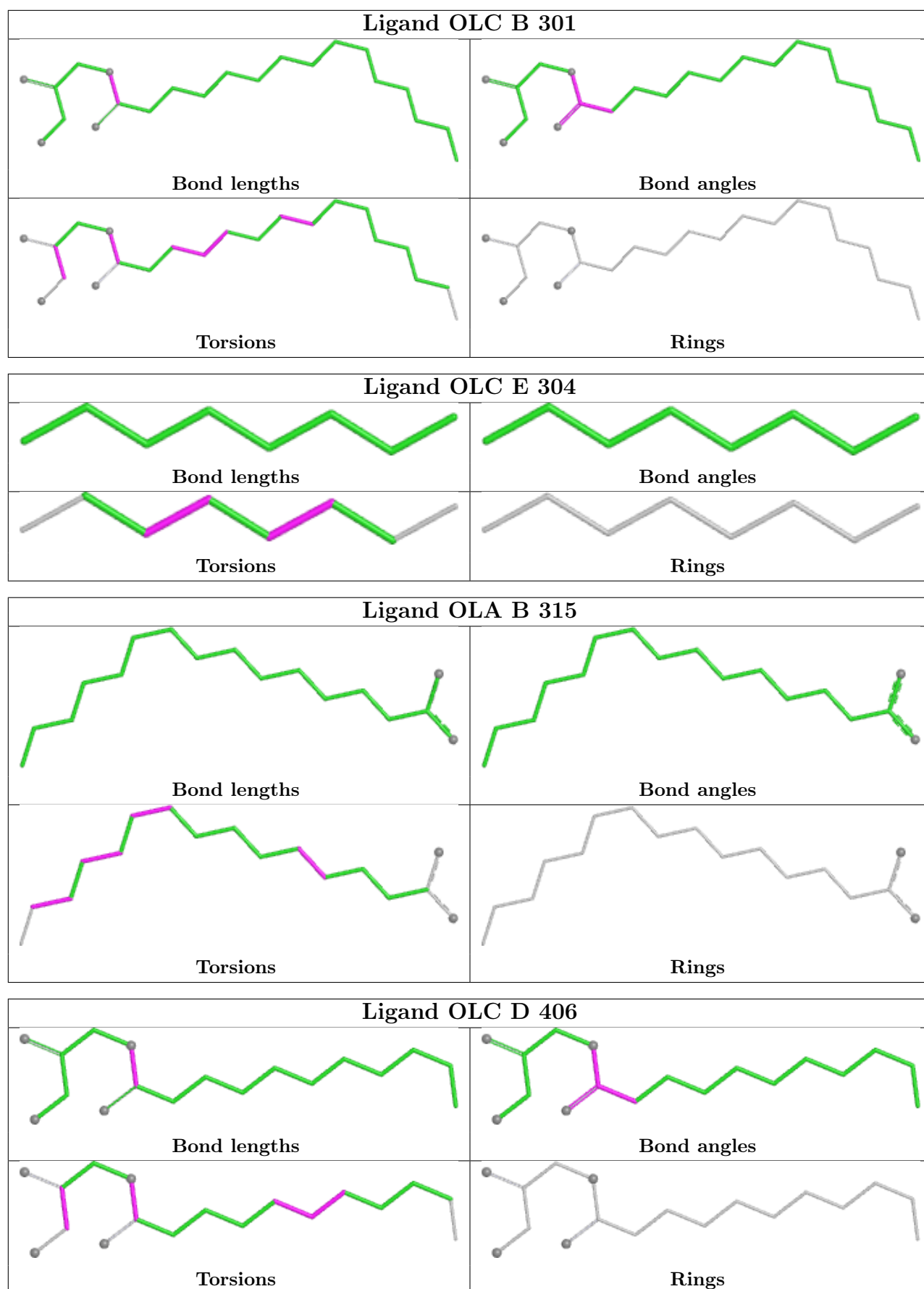


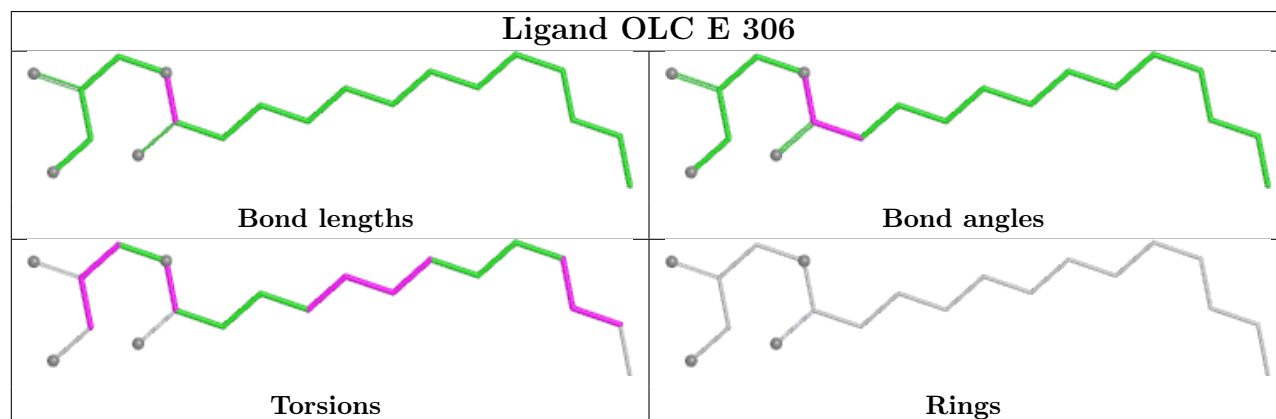
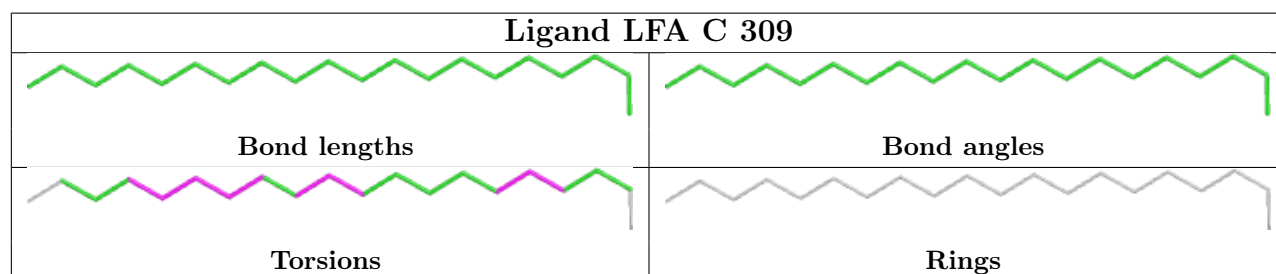
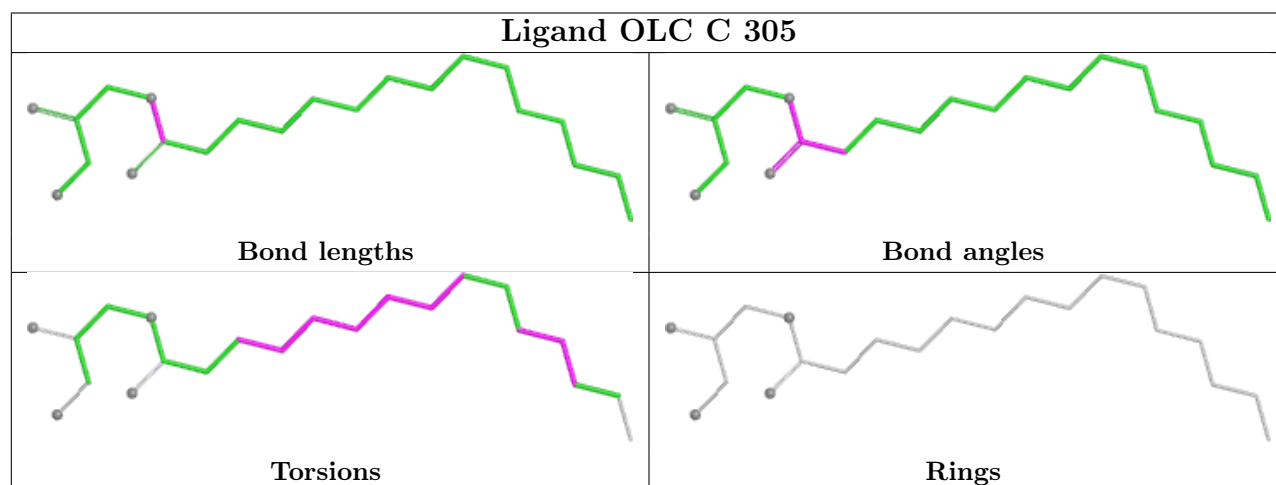
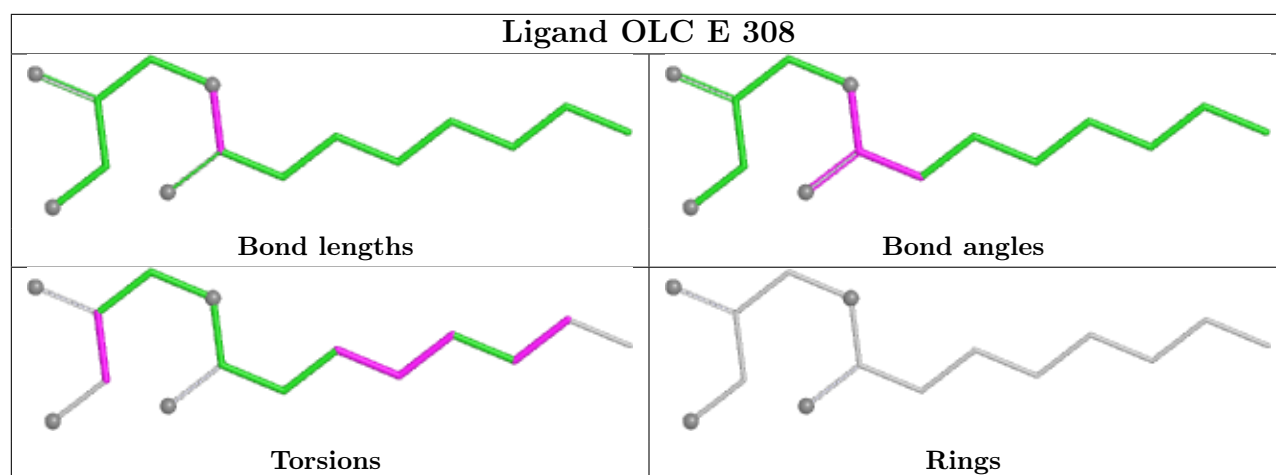


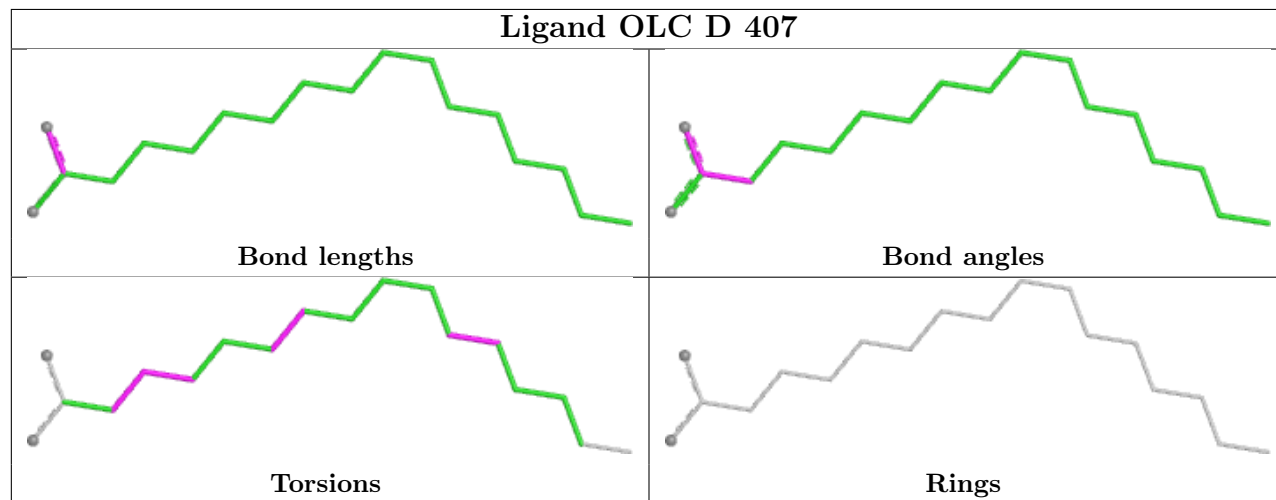
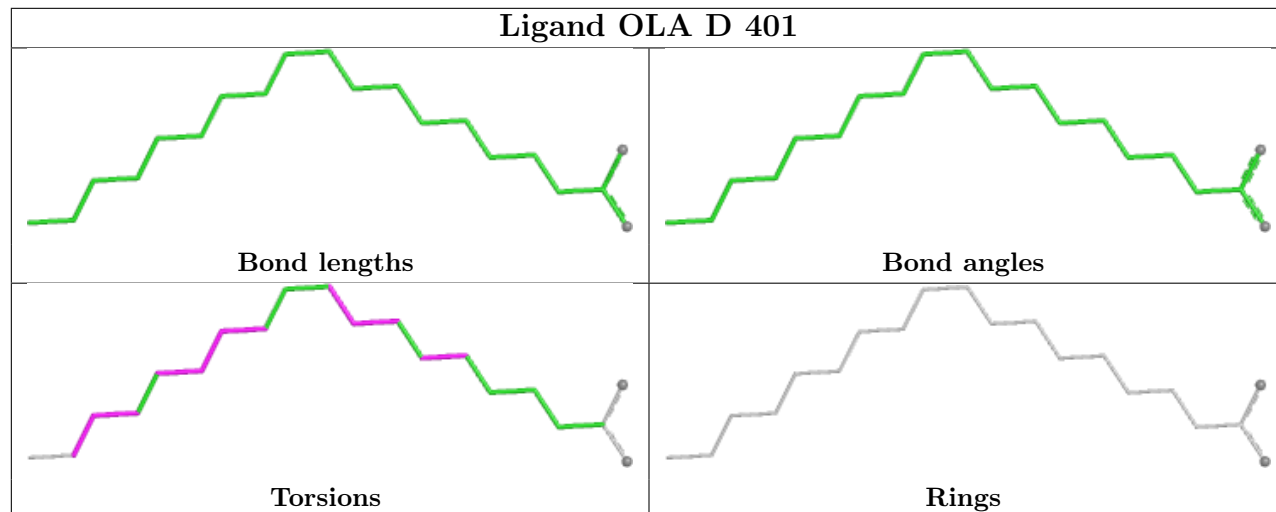
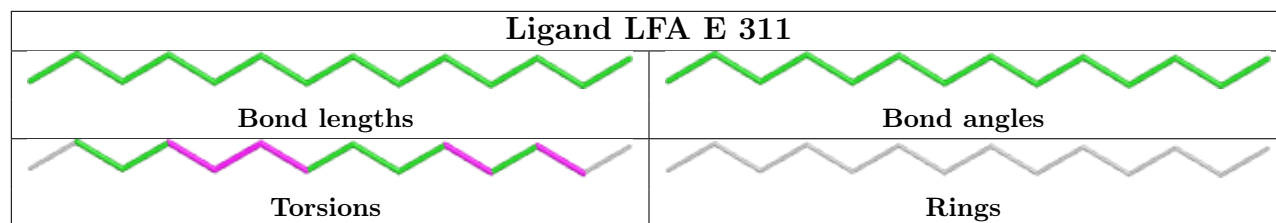


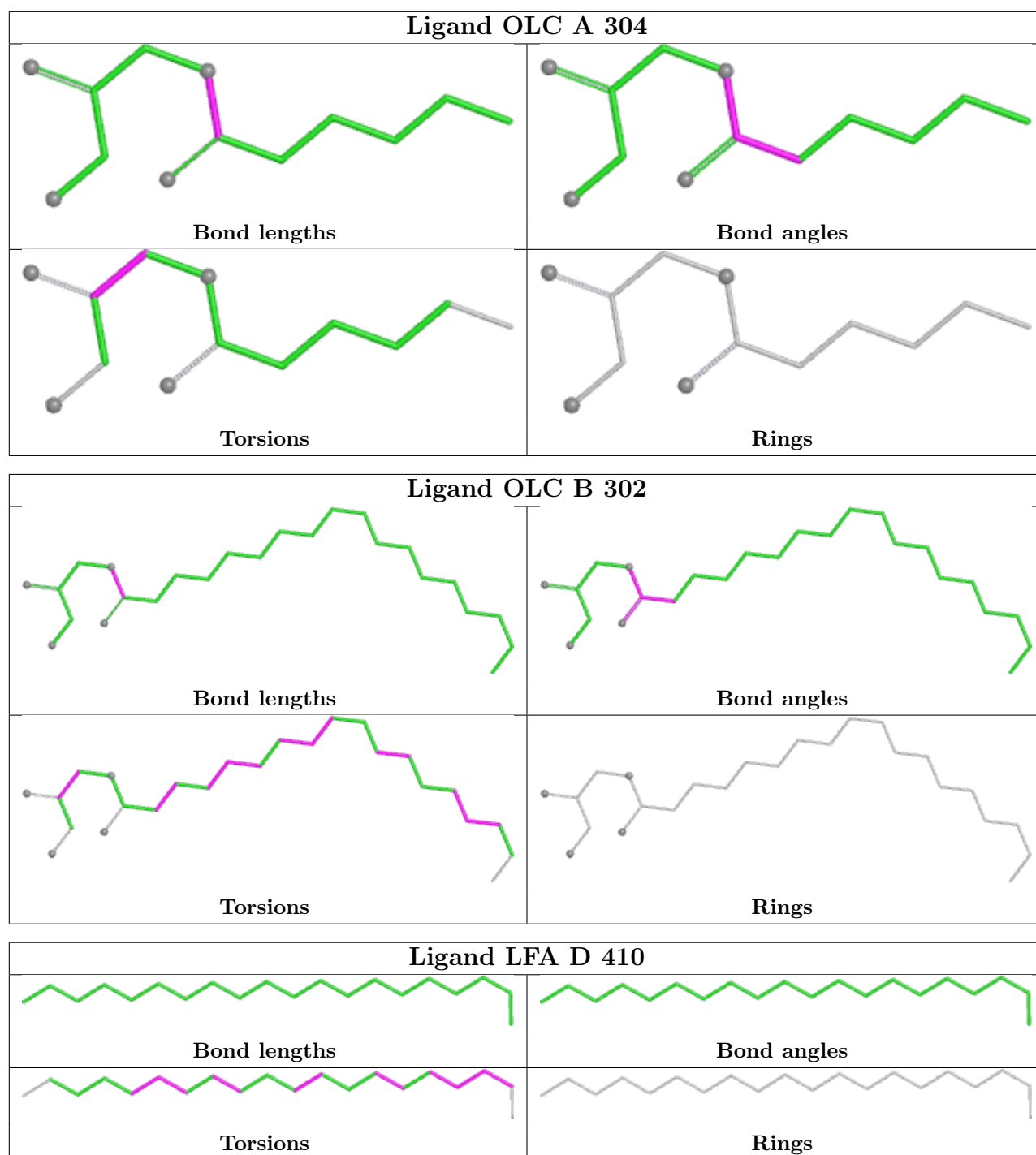


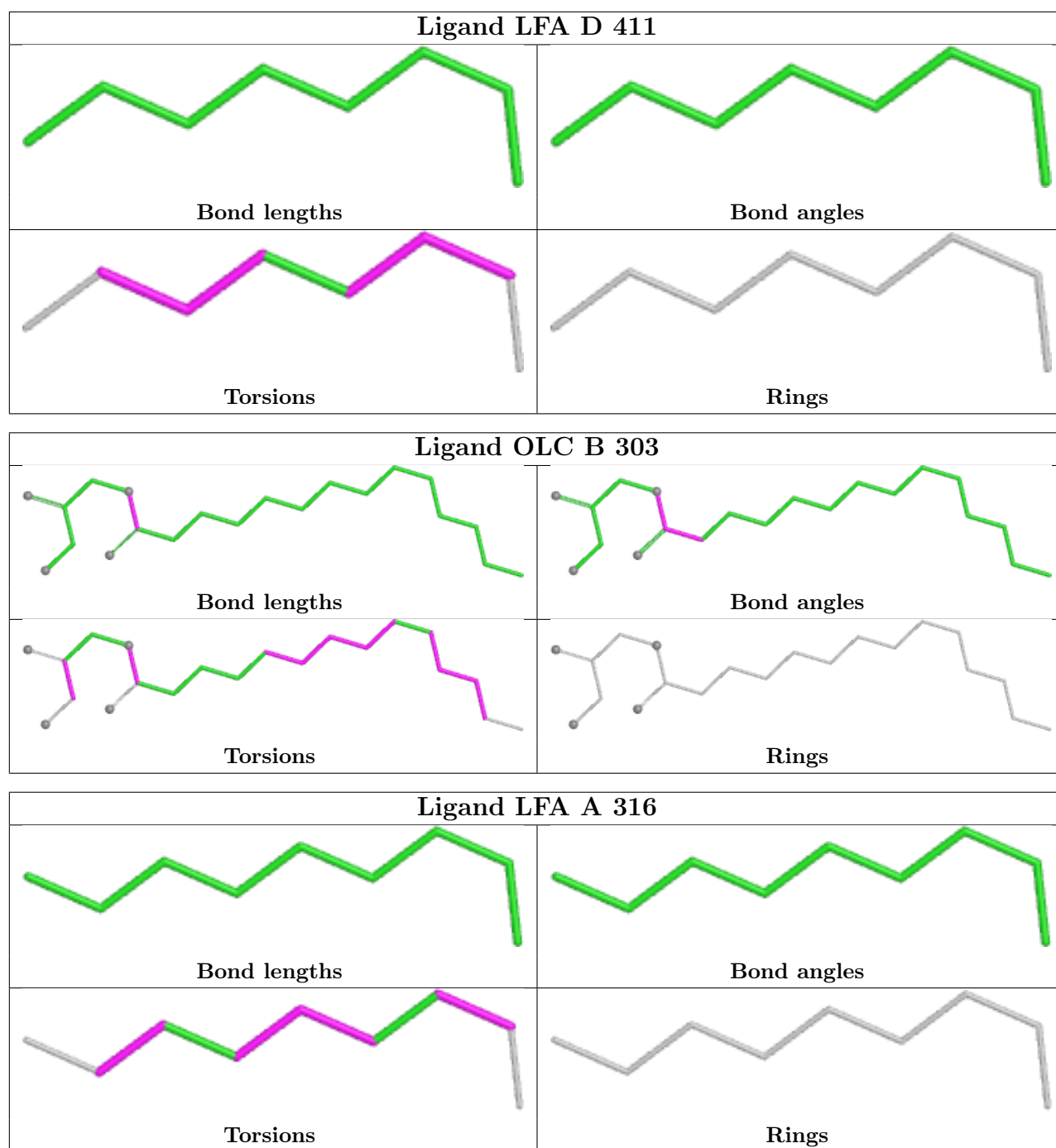


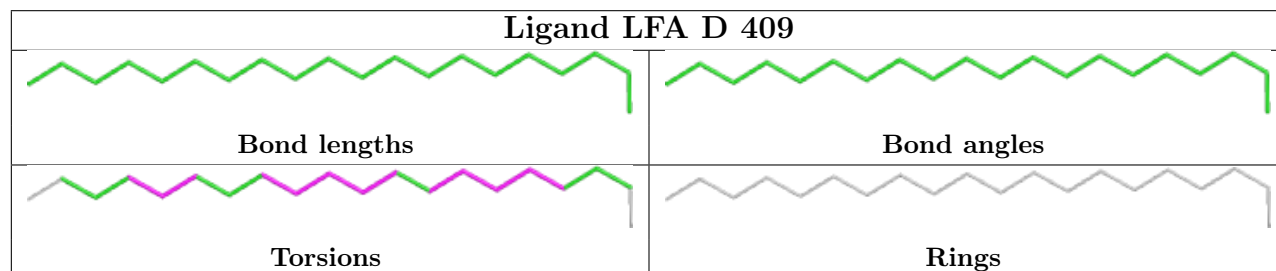
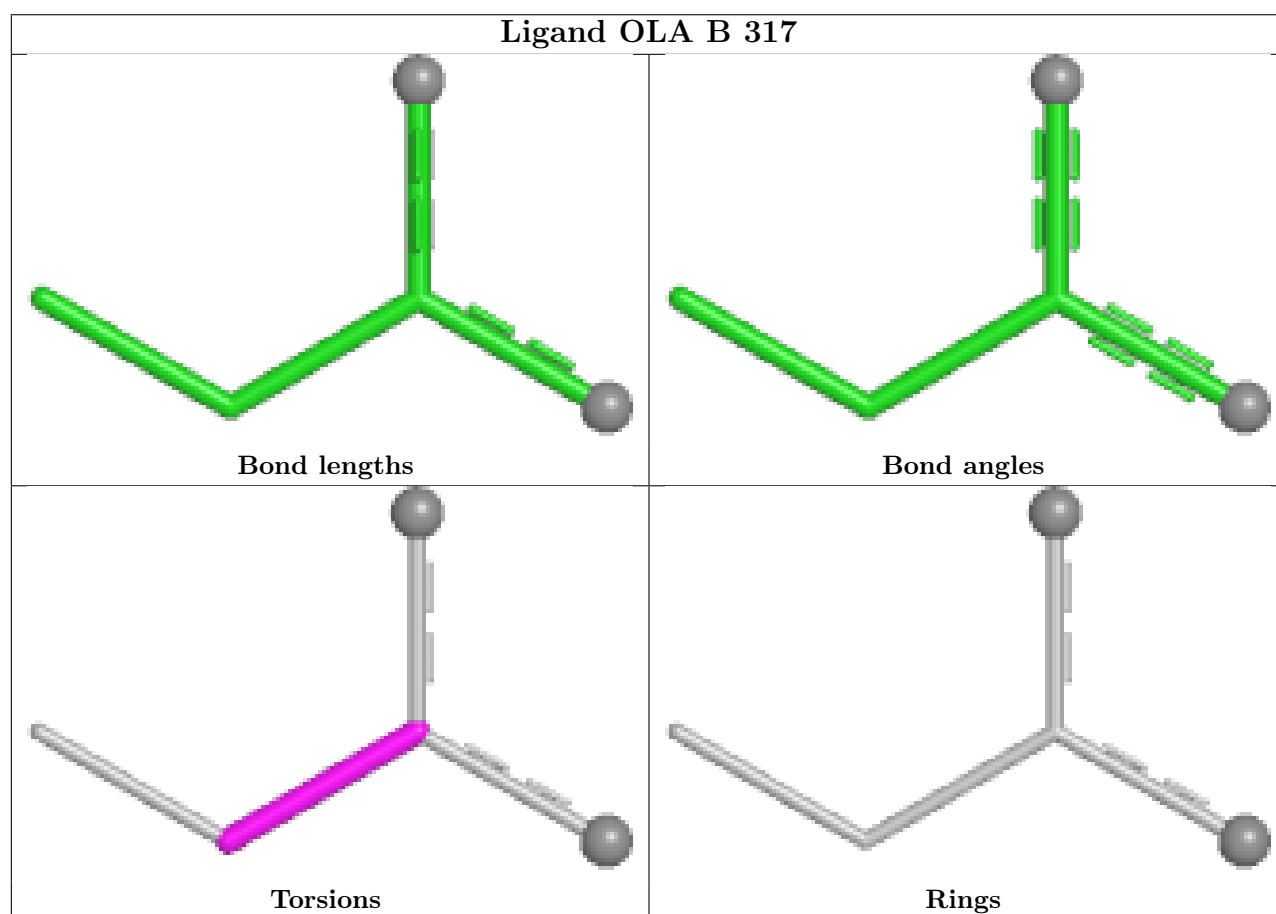
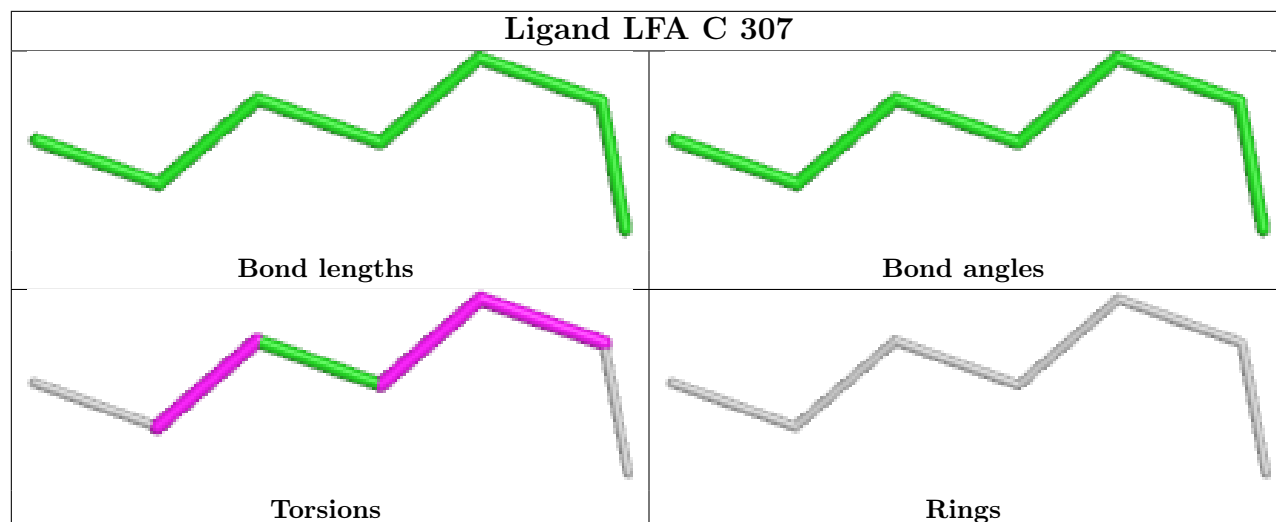


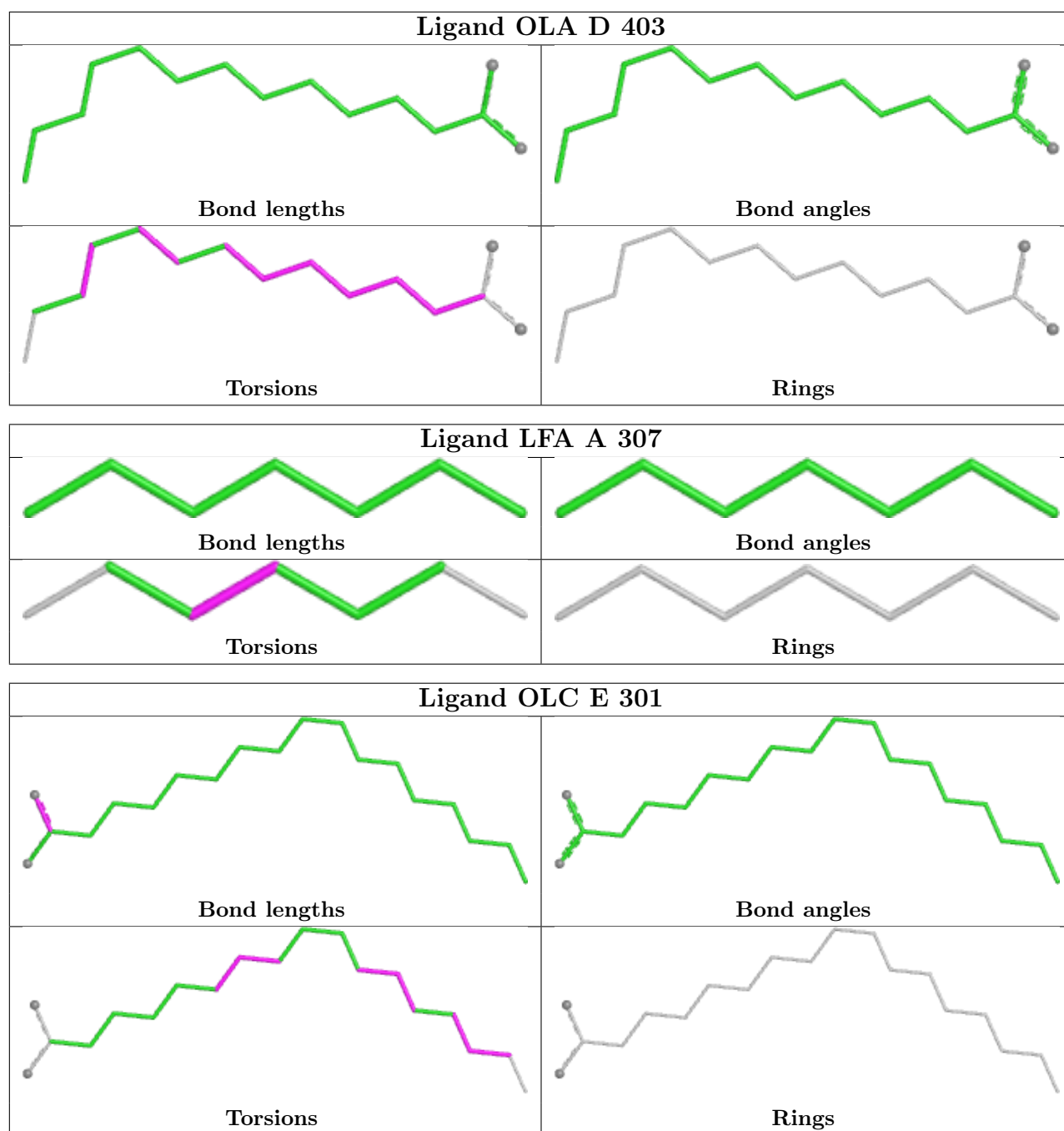


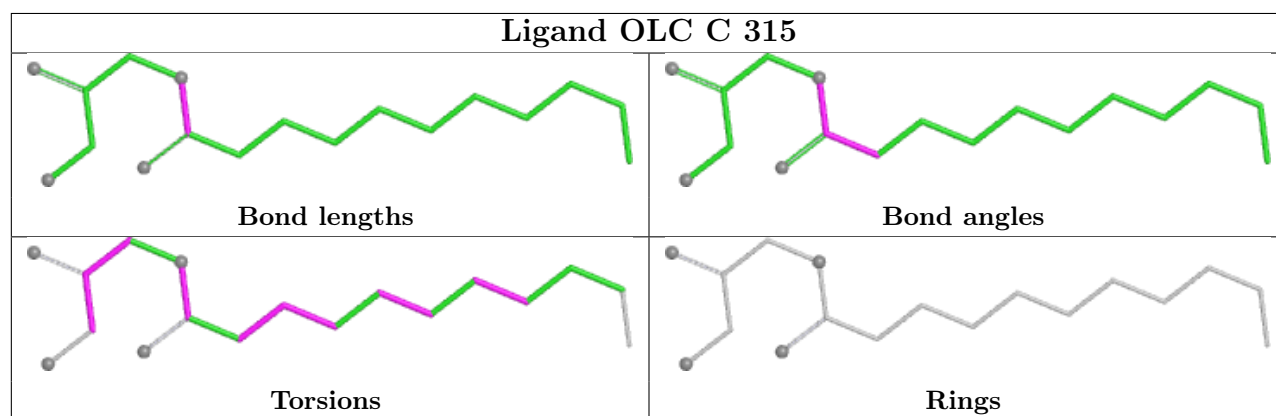
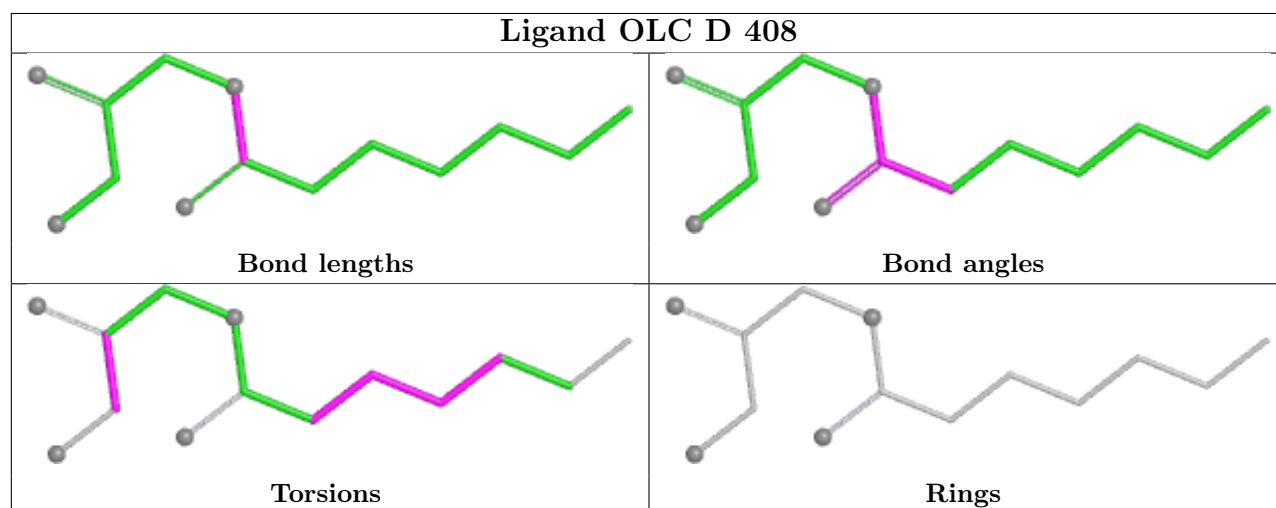
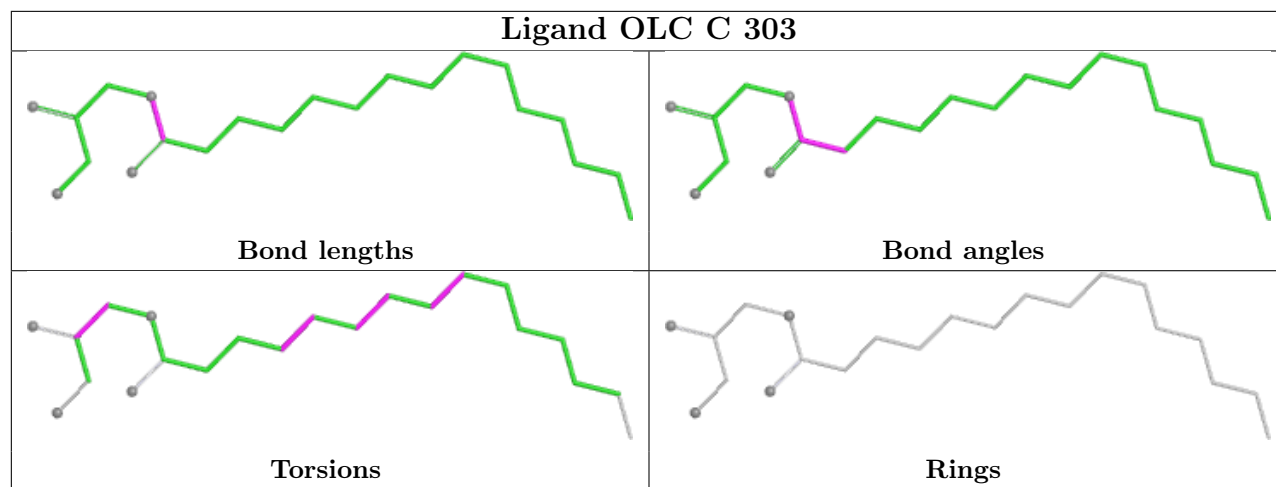


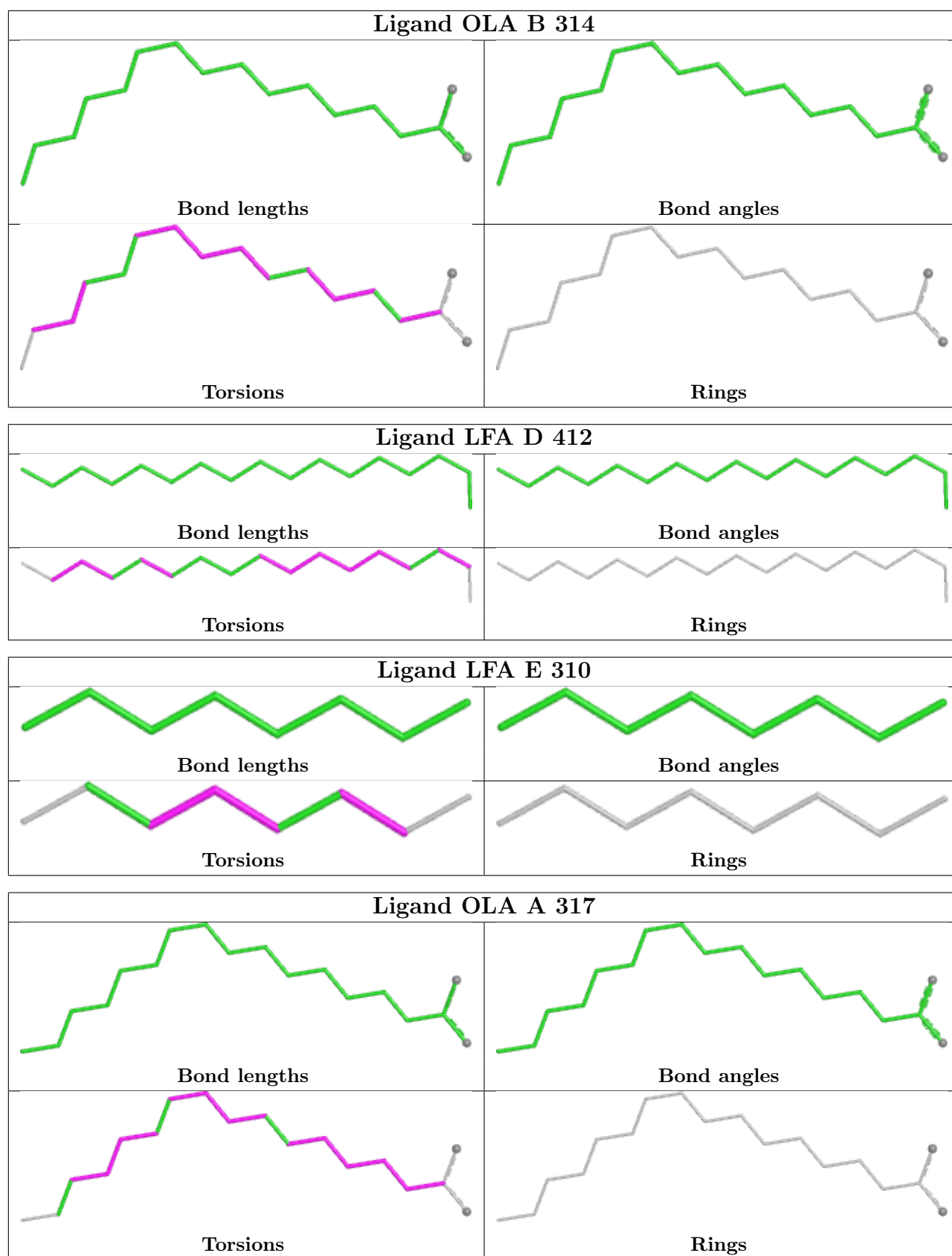


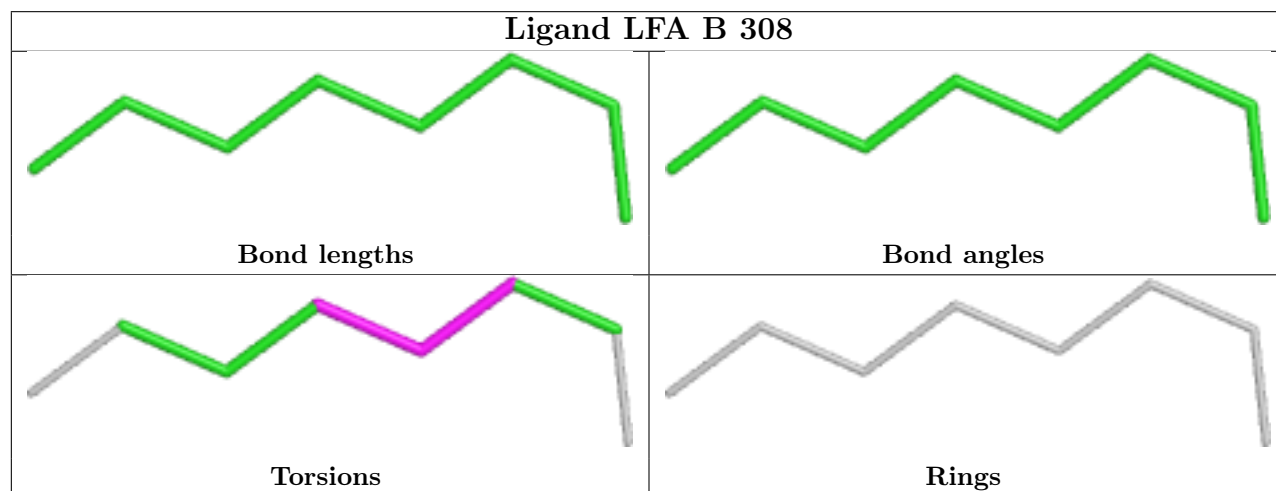
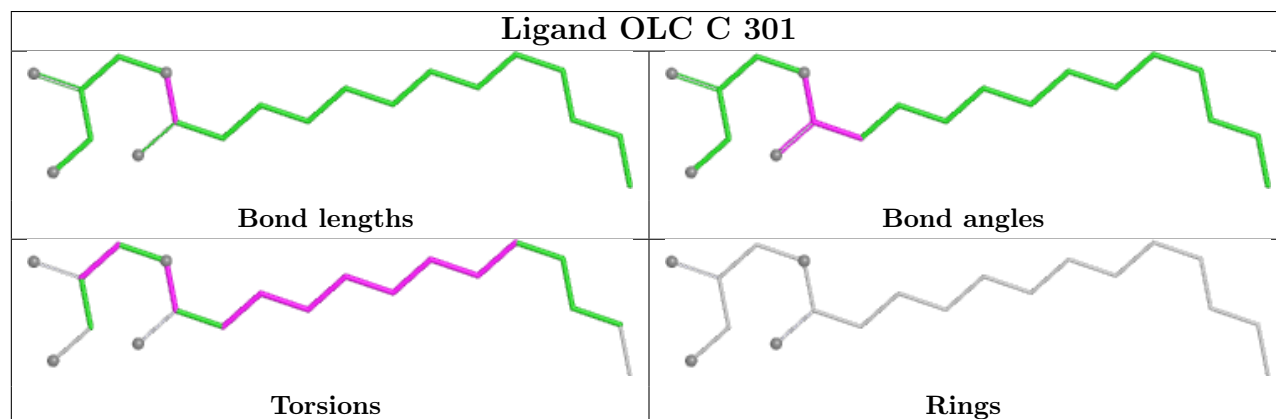
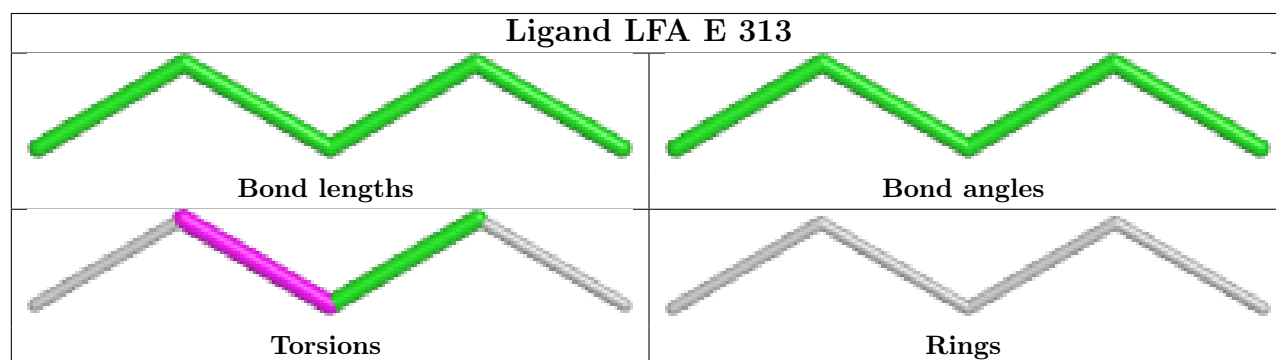
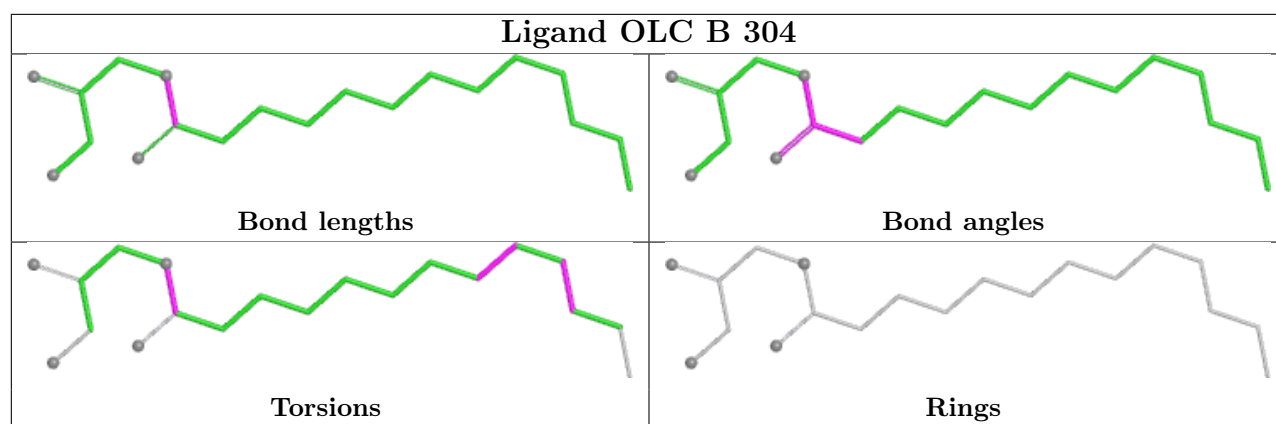


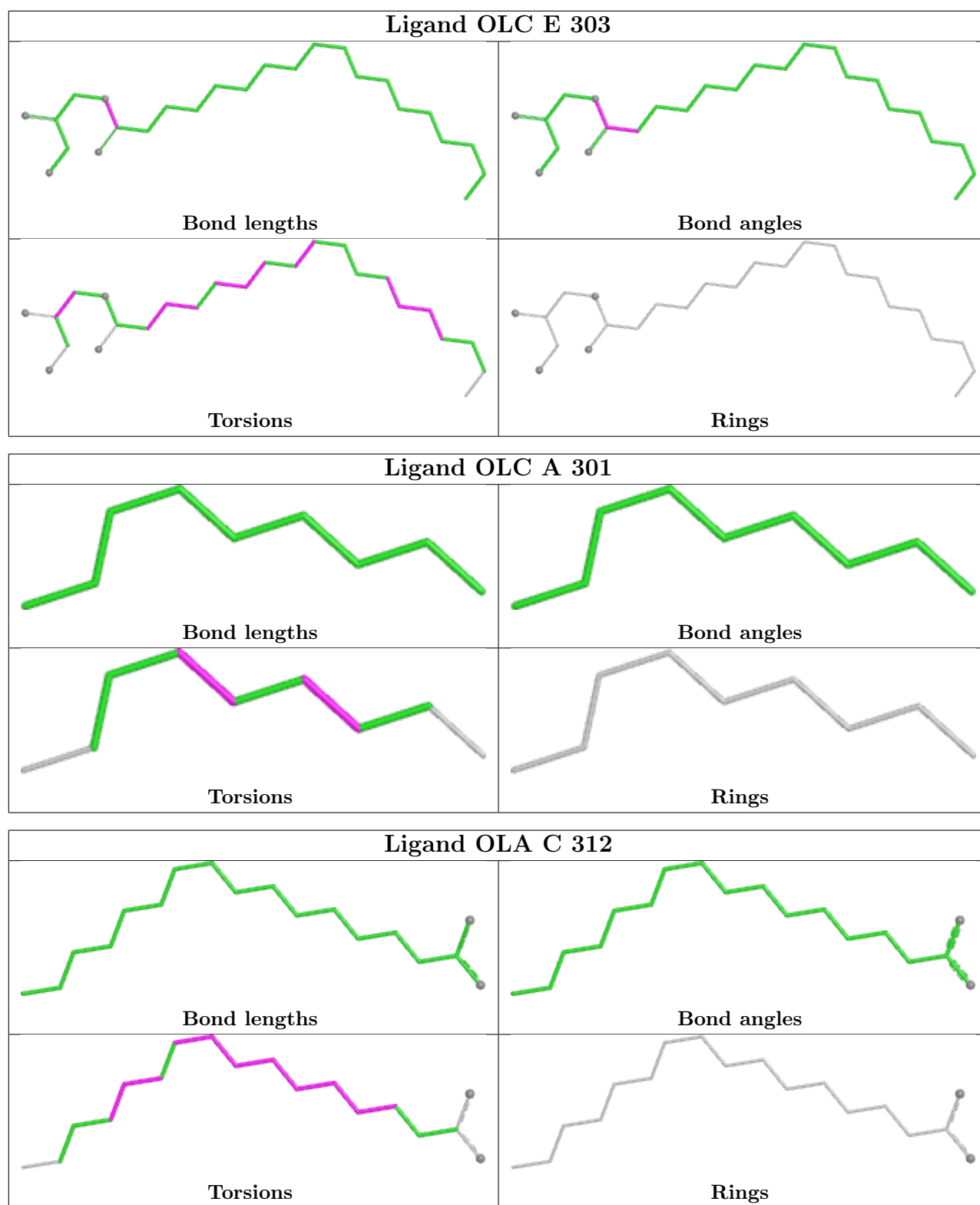


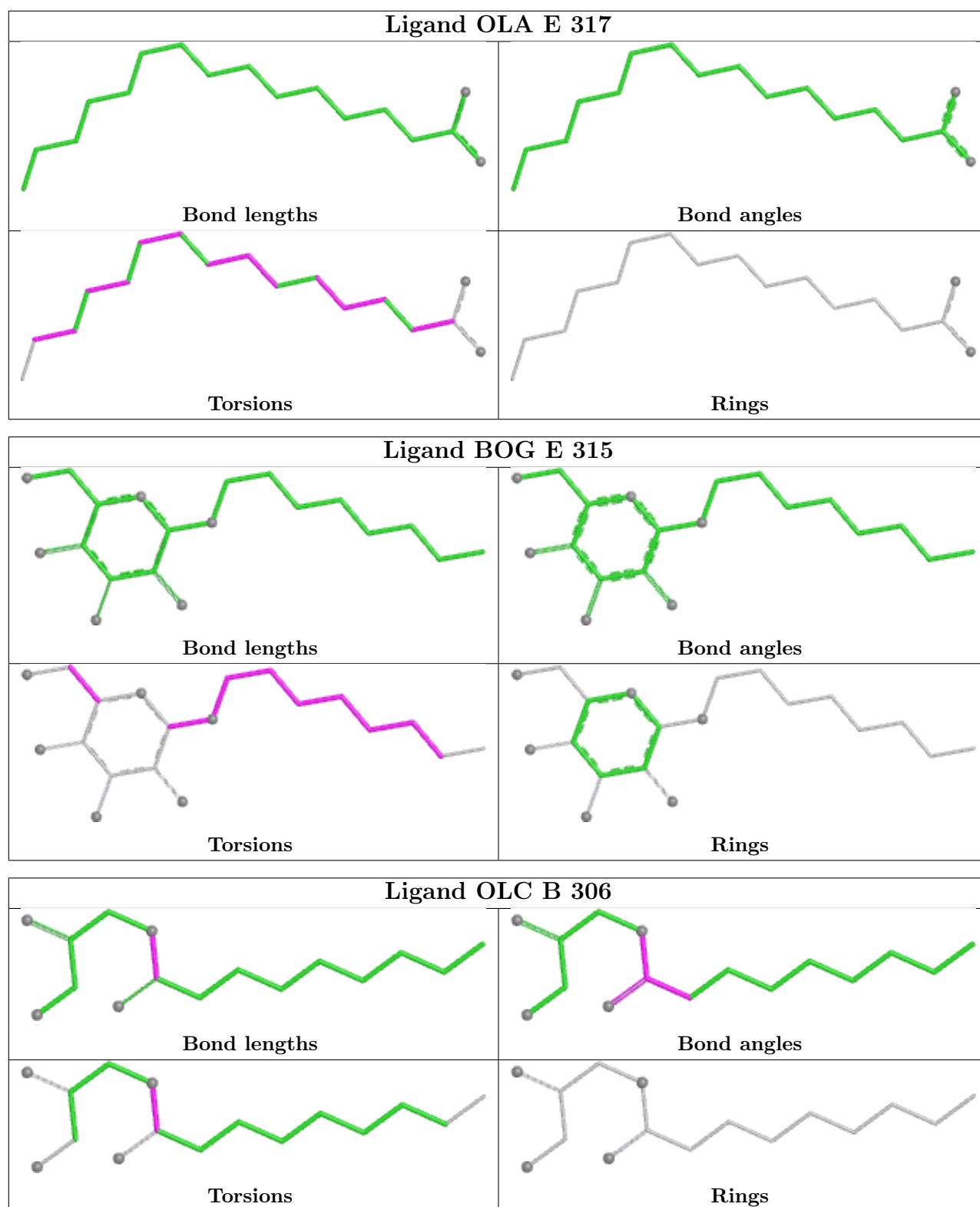


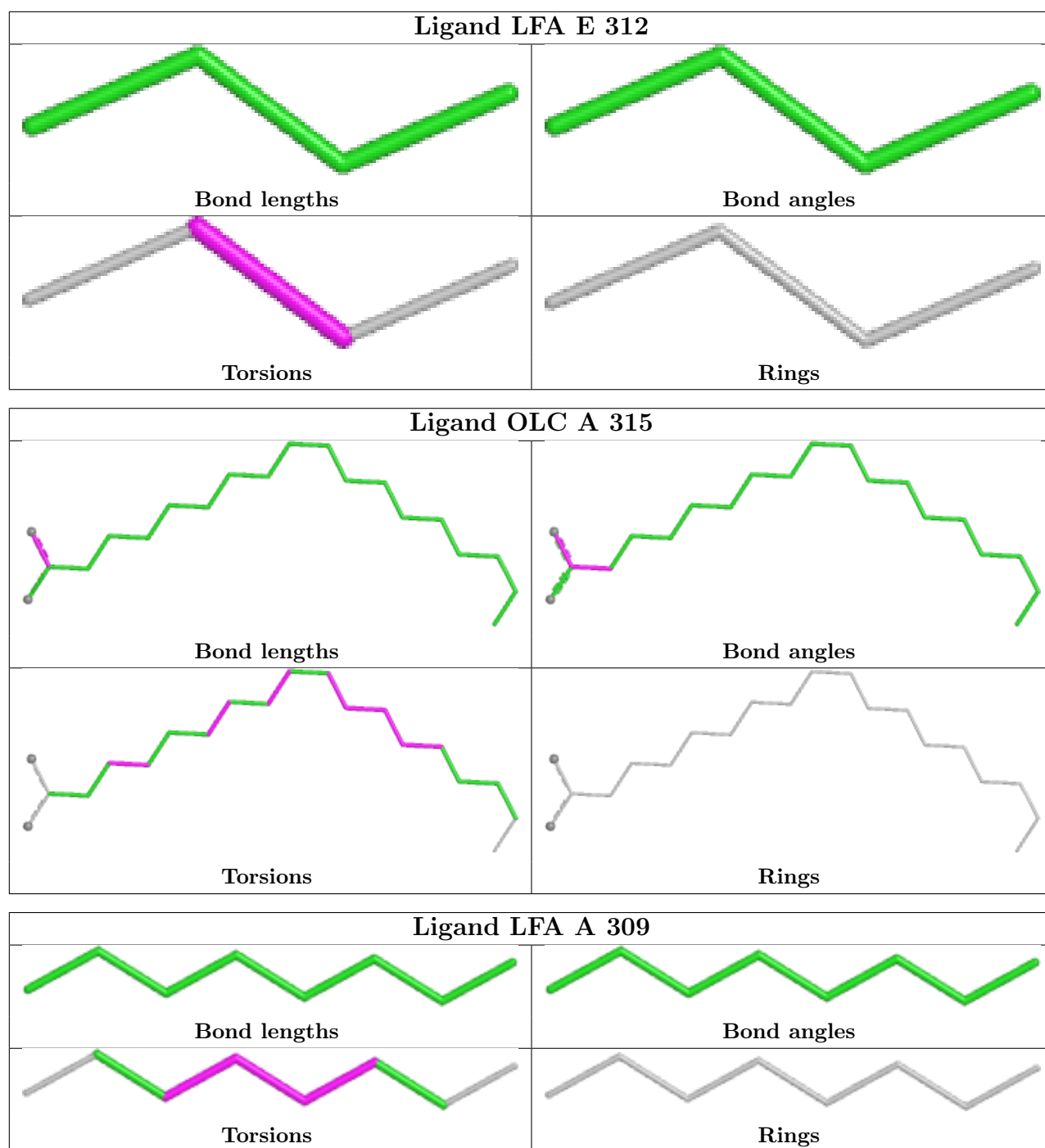


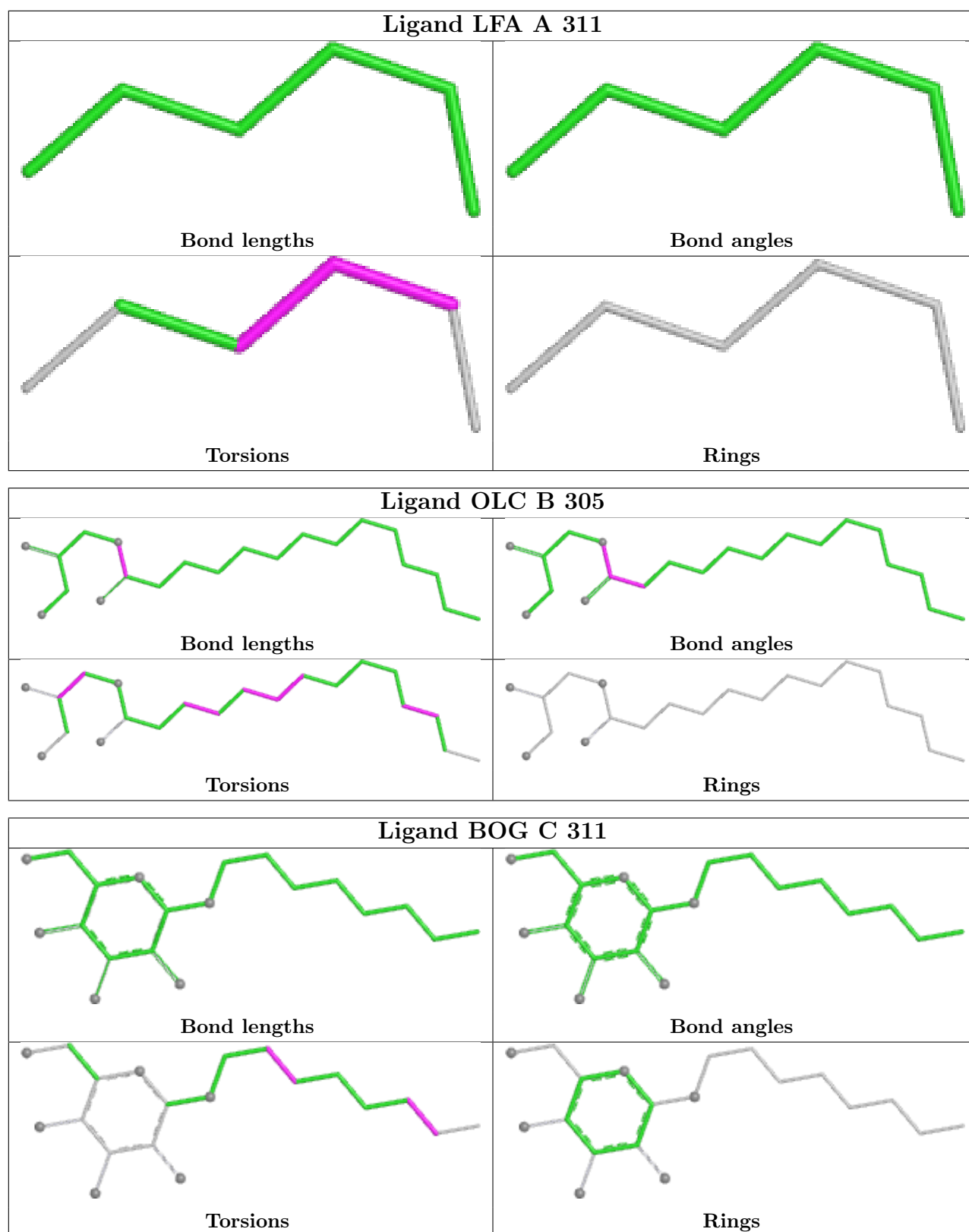


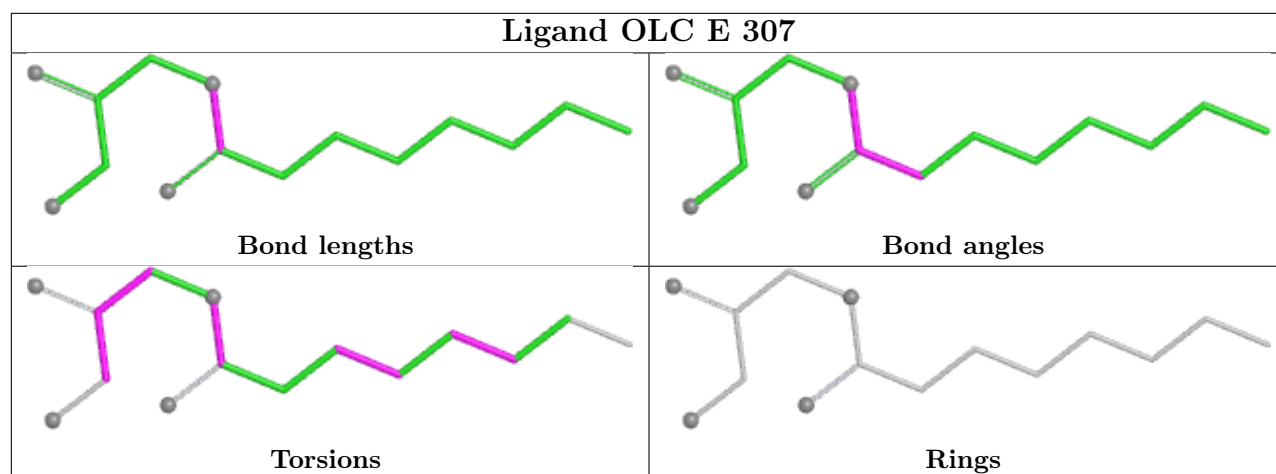
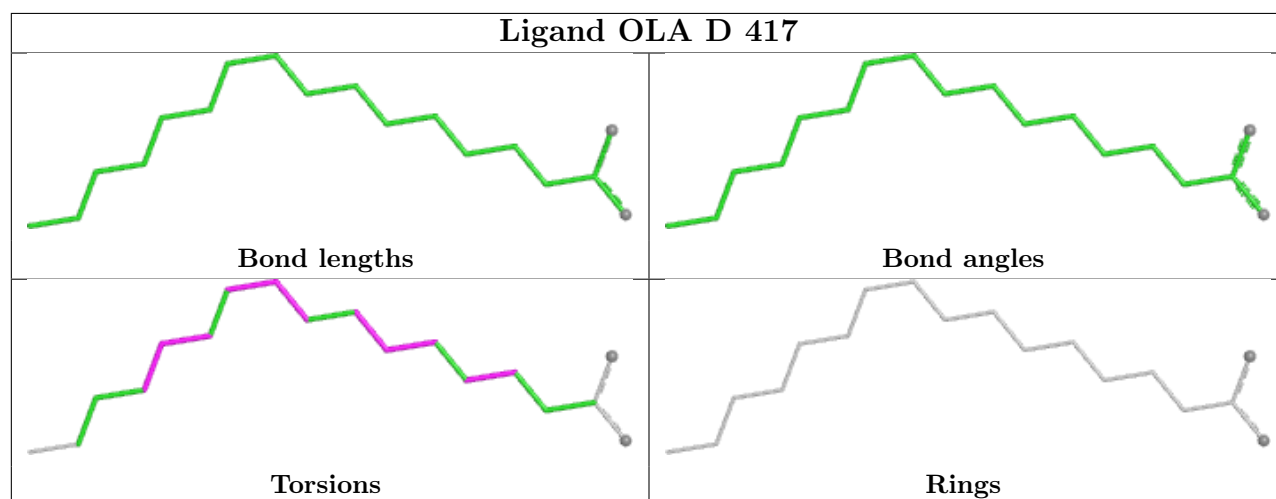
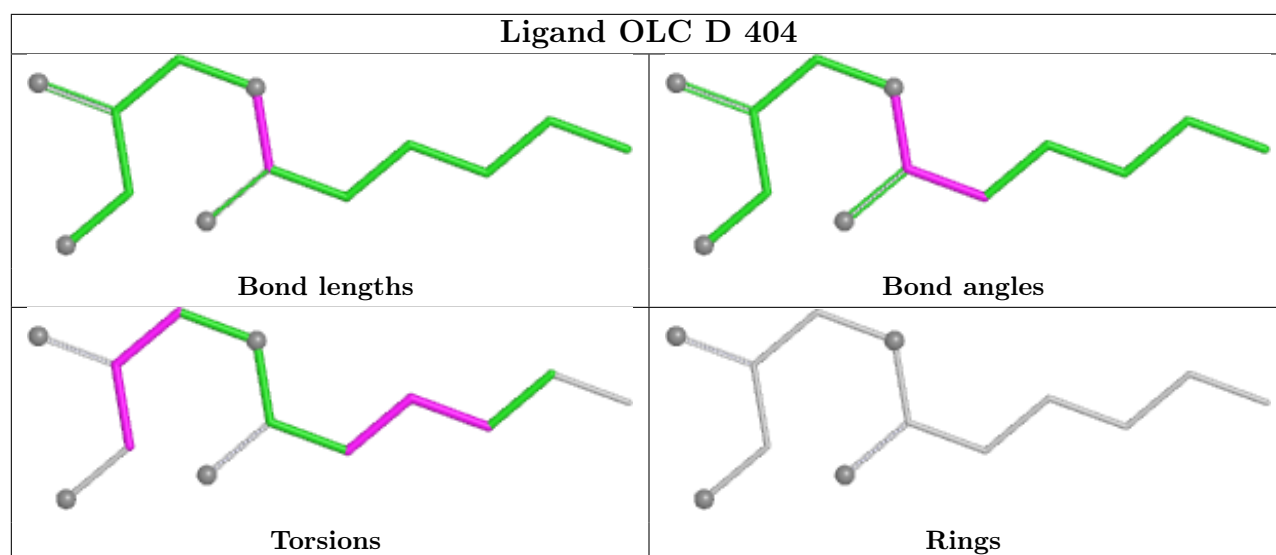


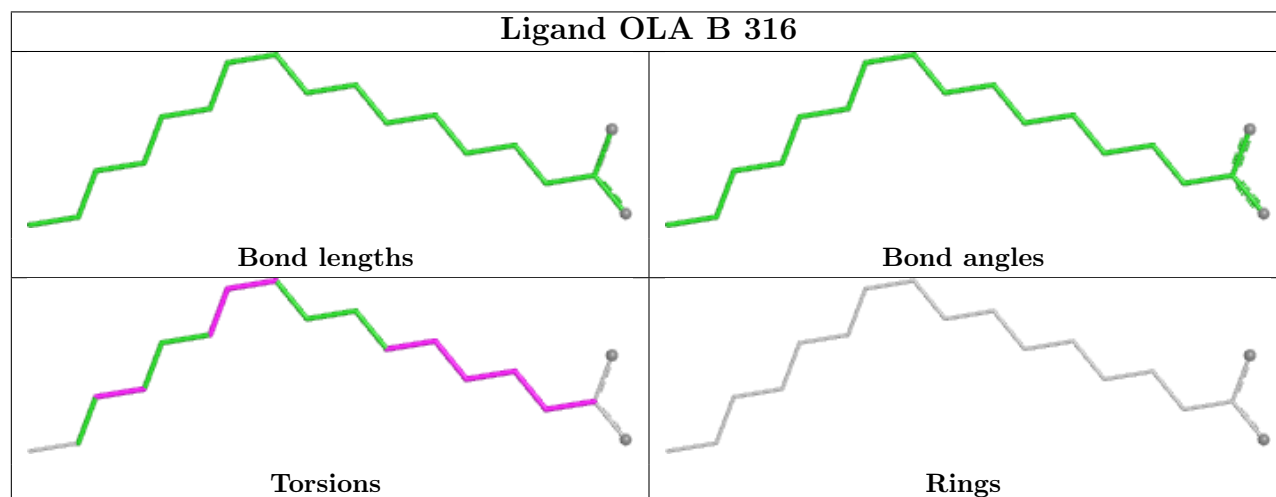
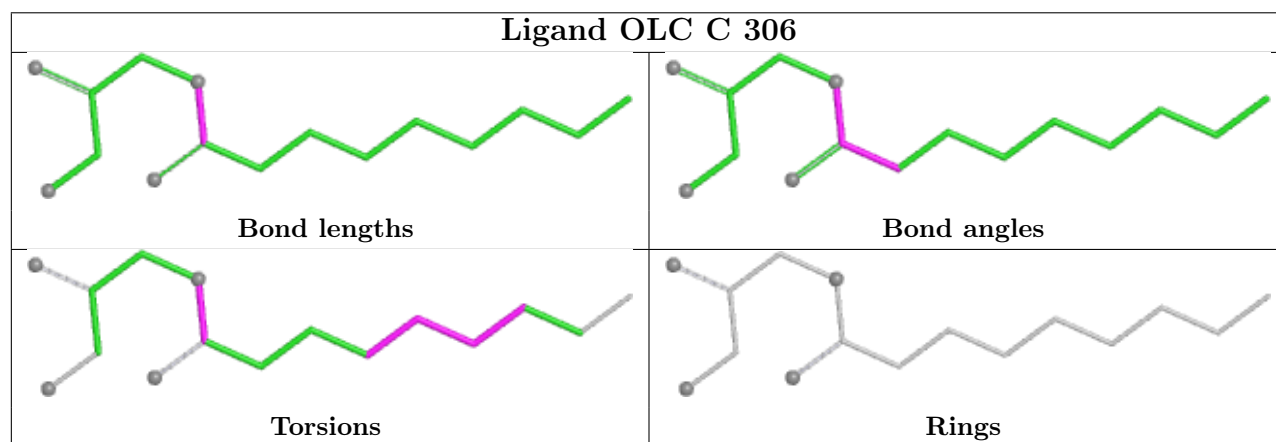
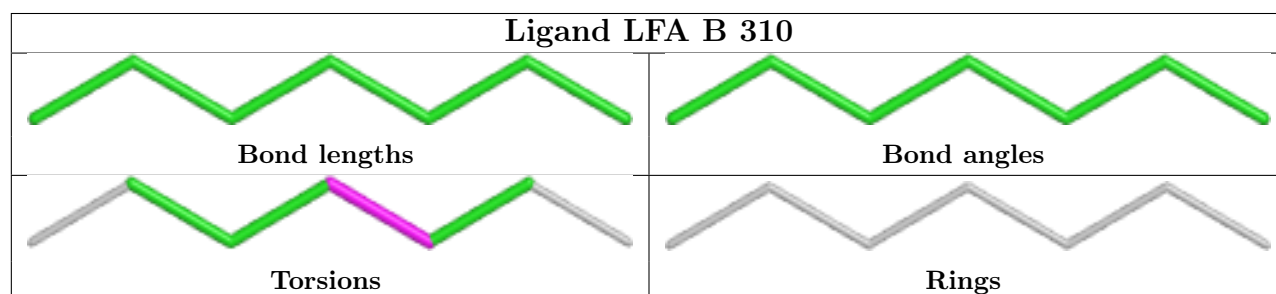
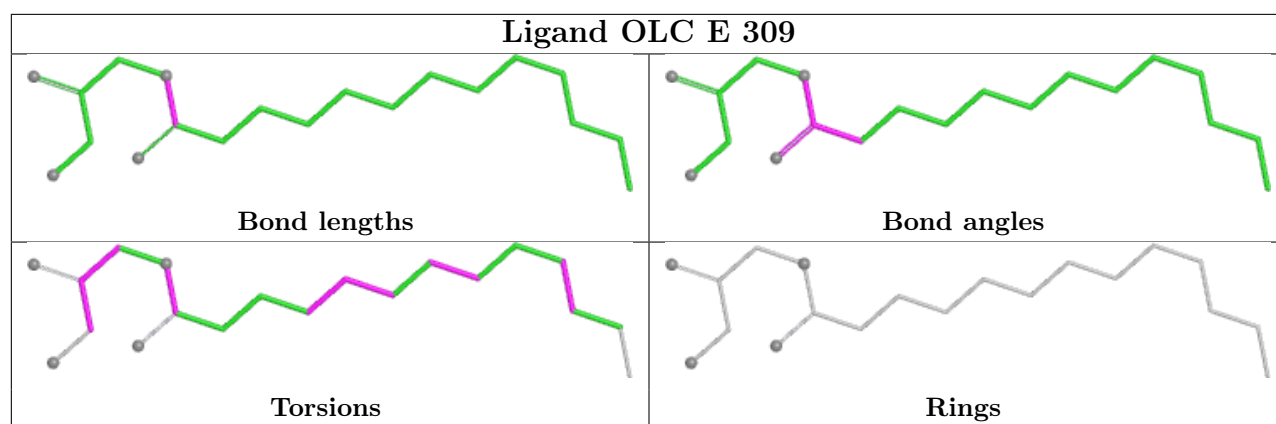


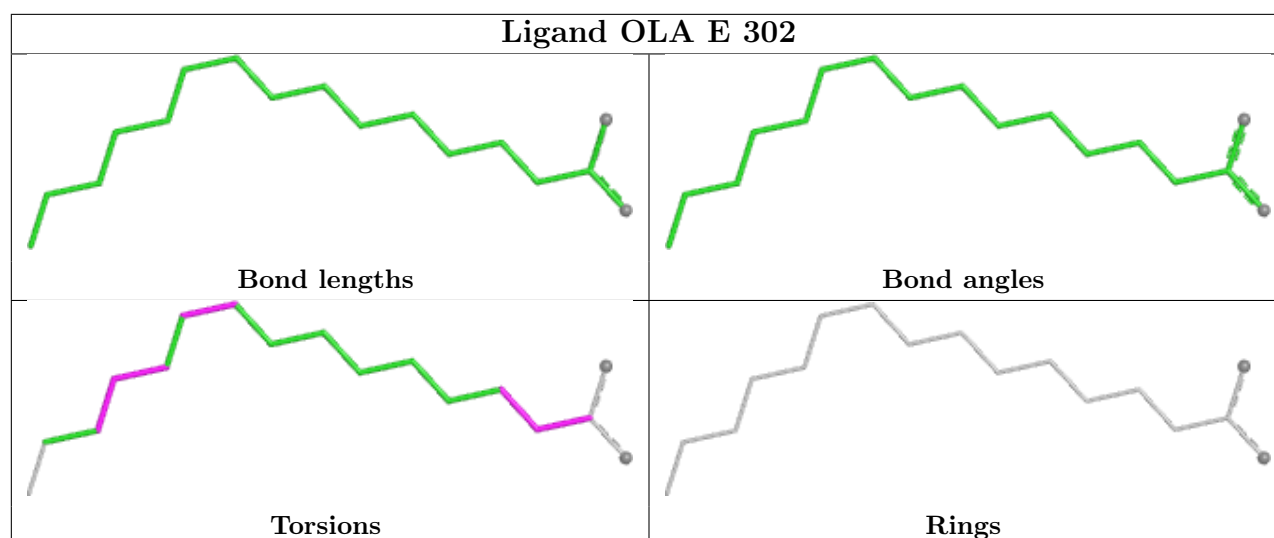












5.7 Other polymers [i](#)

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 [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	269/273 (98%)	-0.06	1 (0%) 88 90	25, 56, 75, 123	1 (0%)
1	B	271/273 (99%)	-0.03	0 100 100	23, 56, 81, 143	2 (0%)
1	C	272/273 (99%)	-0.04	1 (0%) 88 90	25, 55, 82, 160	1 (0%)
1	D	269/273 (98%)	0.02	0 100 100	23, 56, 83, 140	2 (0%)
1	E	269/273 (98%)	-0.00	1 (0%) 88 90	25, 56, 76, 115	1 (0%)
All	All	1350/1365 (98%)	-0.02	3 (0%) 91 92	23, 56, 80, 160	7 (0%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	275	LEU	3.4
1	E	272	ASN	2.8
1	A	272	ASN	2.7

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	LYR	A	255	29/30	0.95	0.10	46,56,64,66	0
1	LYR	C	255	29/30	0.96	0.09	48,57,67,78	0
1	LYR	D	255	29/30	0.96	0.10	48,57,64,72	0
1	LYR	E	255	29/30	0.96	0.09	48,54,63,67	0
1	LYR	B	255	29/30	0.97	0.08	44,54,62,67	0

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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
6	OLA	B	317	5/20	0.49	0.12	115,128,145,169	0
3	LFA	A	316	9/20	0.53	0.24	88,91,100,100	0
2	OLC	D	404	13/25	0.55	0.17	109,125,161,171	0
2	OLC	B	302	25/25	0.68	0.15	76,100,135,139	0
2	OLC	E	307	15/25	0.68	0.17	85,104,120,142	0
2	OLC	B	301	22/25	0.70	0.17	84,116,134,144	0
2	OLC	C	301	20/25	0.71	0.17	88,103,119,122	0
2	OLC	A	305	25/25	0.73	0.15	85,107,125,125	0
2	OLC	E	309	20/25	0.73	0.15	59,106,129,130	0
3	LFA	A	312	16/20	0.74	0.21	96,108,120,122	0
3	LFA	D	414	6/20	0.75	0.18	100,109,111,114	0
2	OLC	C	303	22/25	0.75	0.18	83,107,131,143	0
2	OLC	E	303	25/25	0.76	0.14	74,110,131,134	0
6	OLA	A	317	18/20	0.76	0.20	79,95,101,119	0
3	LFA	B	310	7/20	0.76	0.25	80,87,102,114	0
2	OLC	D	406	18/25	0.77	0.17	78,92,119,120	0
2	OLC	A	303	25/25	0.77	0.19	90,115,138,151	0
3	LFA	A	310	4/20	0.78	0.18	82,95,97,98	0
5	BOG	B	312	20/20	0.78	0.15	75,91,102,113	0
6	OLA	D	403	15/20	0.78	0.09	89,122,139,142	0
6	OLA	C	314	18/20	0.79	0.17	79,94,109,110	0
3	LFA	D	413	7/20	0.79	0.16	86,93,102,115	0
3	LFA	B	307	9/20	0.80	0.21	88,101,110,118	0
3	LFA	B	309	10/20	0.80	0.24	83,110,119,119	0
2	OLC	D	405	25/25	0.80	0.17	91,107,119,126	0
2	OLC	B	305	21/25	0.80	0.14	62,97,127,147	0
2	OLC	D	407	18/25	0.80	0.17	68,101,114,115	0
3	LFA	A	307	7/20	0.81	0.20	85,90,98,102	0
2	OLC	A	315	20/25	0.81	0.14	80,100,122,122	0
2	OLC	A	301	9/25	0.82	0.15	76,84,98,100	0
6	OLA	E	316	7/20	0.82	0.12	94,96,105,114	0
2	OLC	E	305	16/25	0.83	0.20	78,99,107,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	OLC	C	315	18/25	0.83	0.12	84,105,116,134	0
3	LFA	C	307	7/20	0.83	0.17	80,91,96,100	0
6	OLA	D	417	18/20	0.83	0.15	77,94,105,106	0
3	LFA	D	411	8/20	0.83	0.18	82,88,107,113	0
2	OLC	E	304	8/25	0.84	0.16	84,87,94,95	0
3	LFA	D	409	20/20	0.84	0.17	89,102,113,116	0
5	BOG	A	314	20/20	0.84	0.11	76,91,99,100	0
3	LFA	D	410	20/20	0.84	0.14	87,97,109,111	0
3	LFA	A	309	8/20	0.84	0.20	74,101,109,115	0
6	OLA	B	316	18/20	0.85	0.13	70,89,105,109	0
2	OLC	A	304	13/25	0.85	0.12	72,82,102,105	0
2	OLC	B	306	16/25	0.85	0.11	72,84,89,105	0
5	BOG	C	311	20/20	0.85	0.11	72,88,100,107	0
5	BOG	E	315	20/20	0.85	0.12	72,92,105,116	0
2	OLC	C	305	22/25	0.85	0.14	69,92,117,143	0
6	OLA	E	317	17/20	0.85	0.15	81,93,116,123	0
2	OLC	C	306	16/25	0.86	0.13	70,89,97,106	0
3	LFA	B	308	8/20	0.86	0.19	80,88,103,104	0
2	OLC	B	304	20/25	0.86	0.15	72,103,121,131	0
2	OLC	C	304	20/25	0.86	0.14	76,97,117,117	0
2	OLC	A	306	15/25	0.86	0.15	69,85,111,127	0
3	LFA	E	311	14/20	0.86	0.19	83,101,114,116	0
6	OLA	B	315	17/20	0.87	0.10	64,80,95,100	0
3	LFA	E	313	5/20	0.87	0.17	75,77,98,102	0
3	LFA	E	310	8/20	0.87	0.14	77,93,104,105	0
2	OLC	D	408	14/25	0.87	0.12	67,85,104,108	0
7	GOL	D	402	4/6	0.87	0.13	94,96,102,107	0
6	OLA	D	401	20/20	0.88	0.12	67,90,105,112	0
2	OLC	E	306	20/25	0.88	0.13	77,94,106,110	0
2	OLC	E	308	15/25	0.88	0.15	65,85,93,108	0
6	OLA	E	302	17/20	0.88	0.09	71,84,96,108	0
3	LFA	A	308	8/20	0.88	0.18	75,88,91,94	0
5	BOG	D	416	20/20	0.88	0.10	75,85,99,101	0
3	LFA	C	309	20/20	0.88	0.15	81,99,112,112	0
6	OLA	A	318	6/20	0.89	0.10	82,98,107,116	0
3	LFA	C	308	8/20	0.89	0.18	75,95,98,106	0
3	LFA	E	312	4/20	0.89	0.19	79,90,92,106	0
7	GOL	B	313	4/6	0.89	0.10	83,85,92,96	0
2	OLC	B	303	21/25	0.89	0.14	62,86,109,126	0
6	OLA	C	312	18/20	0.90	0.10	69,79,106,108	0
2	OLC	C	302	23/25	0.91	0.11	63,85,120,132	0
6	OLA	B	314	17/20	0.91	0.14	74,92,105,109	0

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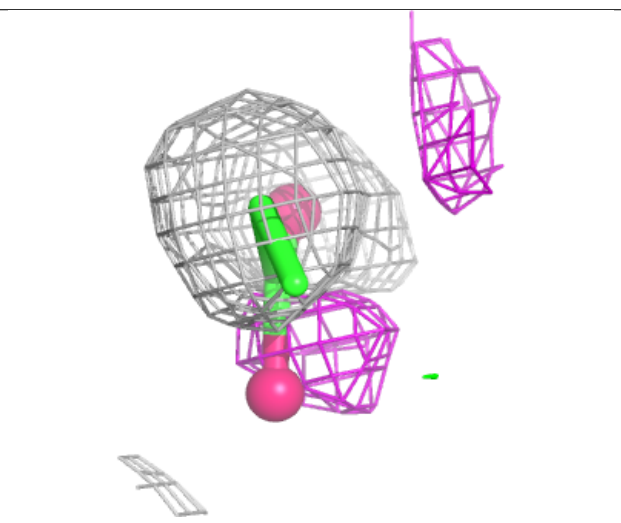
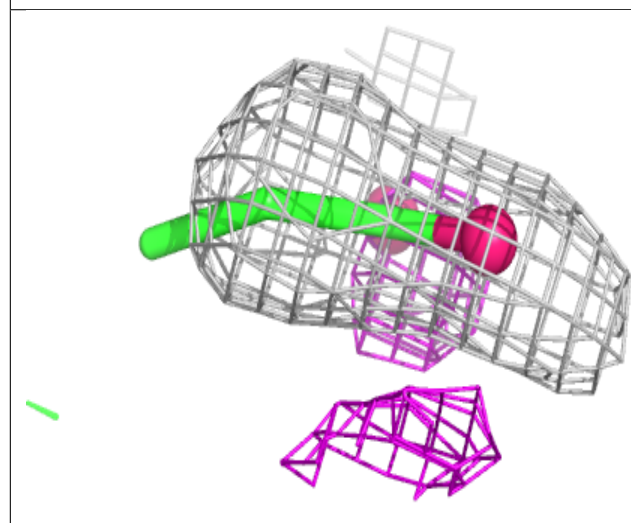
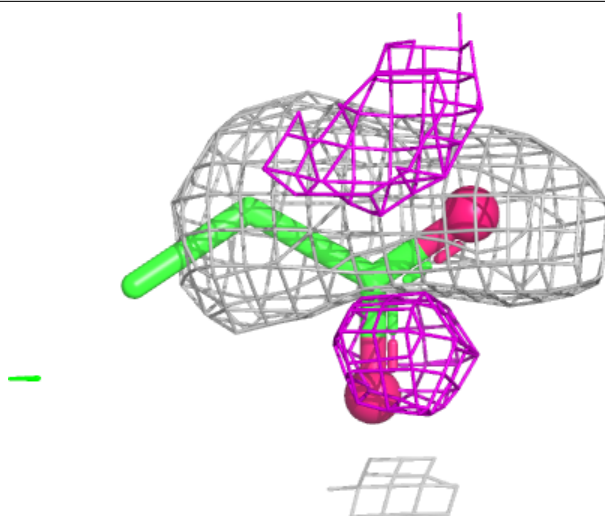
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	OLC	A	302	17/25	0.91	0.10	60,76,96,102	0
3	LFA	A	311	6/20	0.91	0.15	75,81,86,90	0
3	LFA	D	412	17/20	0.91	0.15	63,80,99,107	0
7	GOL	C	313	4/6	0.92	0.08	85,85,95,101	0
2	OLC	E	301	19/25	0.92	0.13	65,75,130,136	0
4	NA	D	418	1/1	0.96	0.07	56,56,56,56	0
4	NA	E	318	1/1	0.96	0.15	61,61,61,61	0
4	NA	B	318	1/1	0.96	0.08	56,56,56,56	0
4	NA	A	319	1/1	0.97	0.11	56,56,56,56	0
4	NA	C	316	1/1	0.97	0.10	54,54,54,54	0
4	NA	A	313	1/1	0.98	0.13	53,53,53,53	0
4	NA	C	310	1/1	0.98	0.11	48,48,48,48	0
4	NA	B	311	1/1	0.98	0.09	52,52,52,52	0
4	NA	E	314	1/1	0.99	0.04	49,49,49,49	0
4	NA	D	415	1/1	0.99	0.10	51,51,51,51	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.

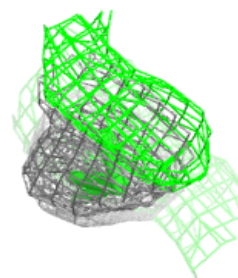
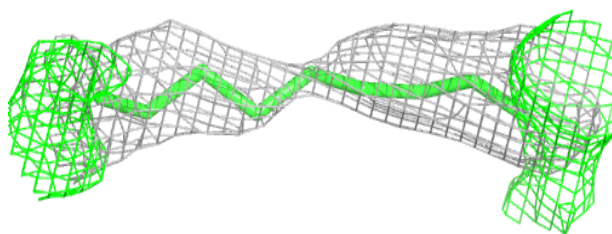
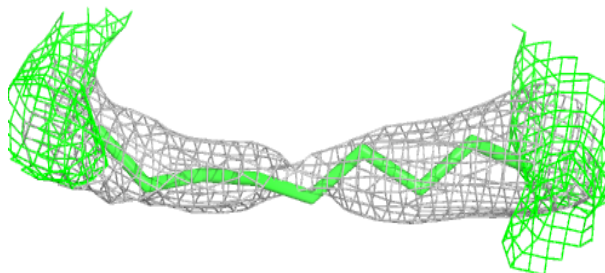
Electron density around OLA B 317:

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

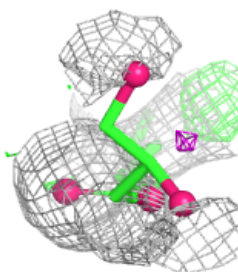
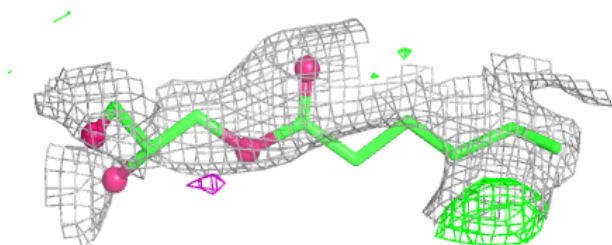
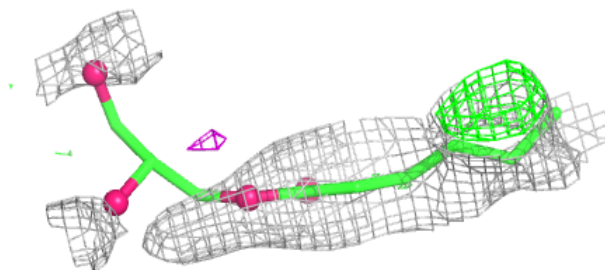


Electron density around LFA A 316:

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

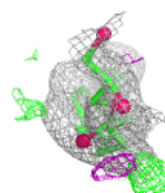
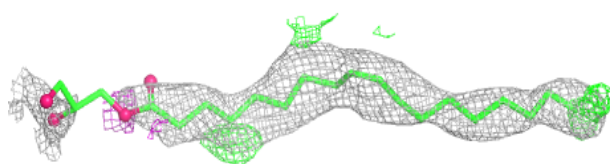
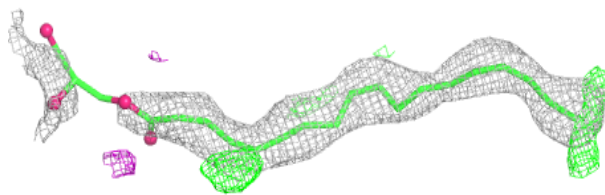
**Electron density around OLC D 404:**

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

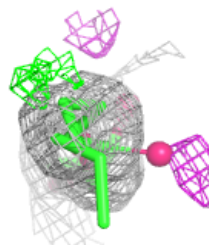
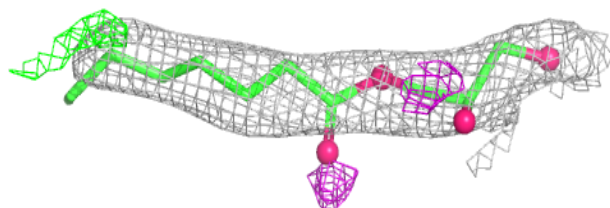
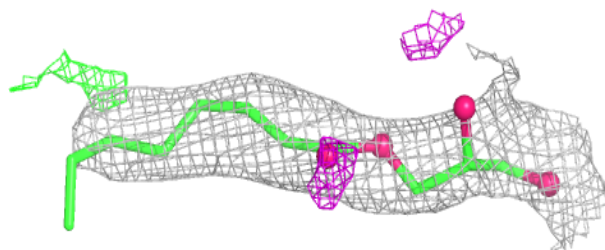


Electron density around OLC B 302:

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

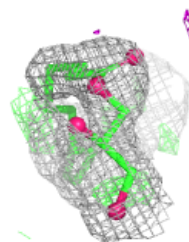
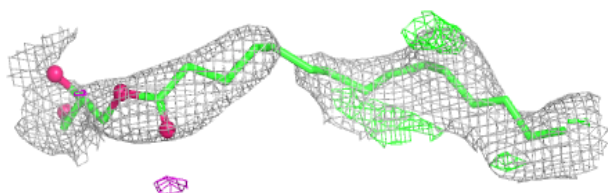
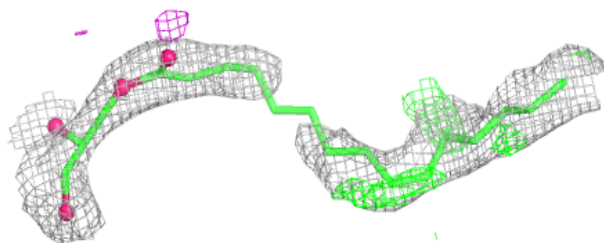
**Electron density around OLC E 307:**

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

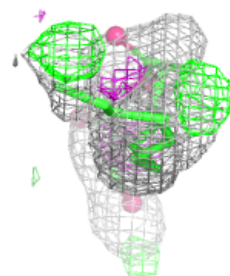
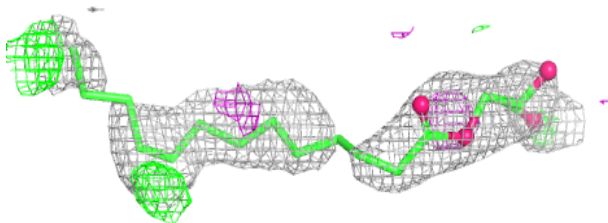
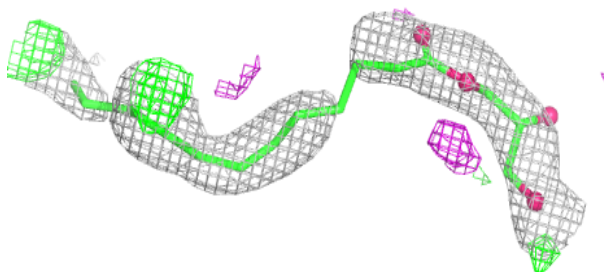


Electron density around OLC B 301:

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

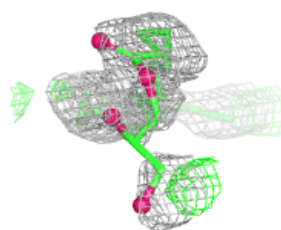
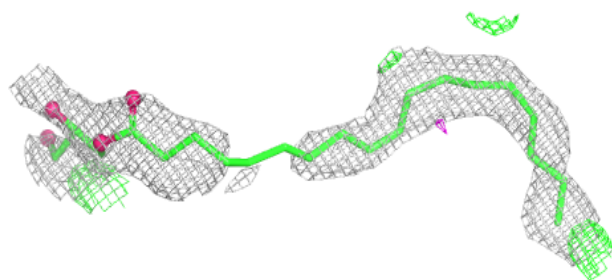
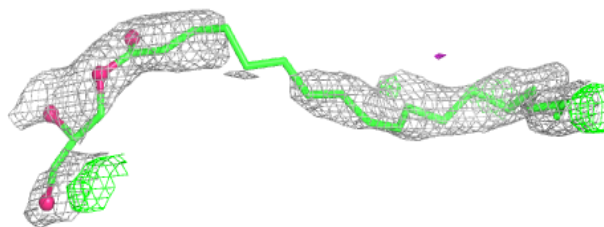
**Electron density around OLC C 301:**

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

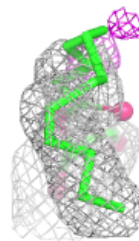
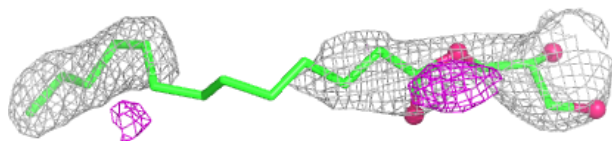
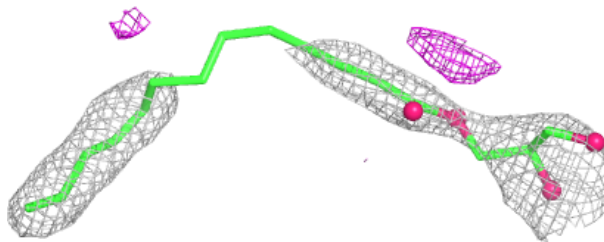


Electron density around OLC A 305:

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

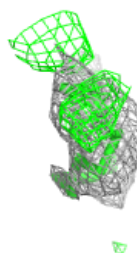
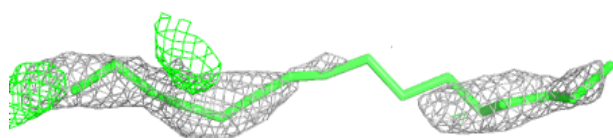
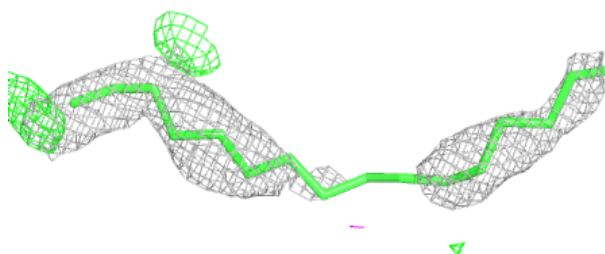
**Electron density around OLC E 309:**

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

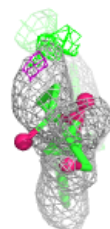
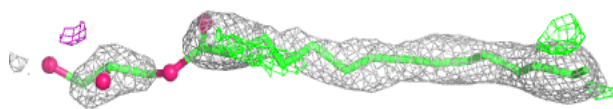
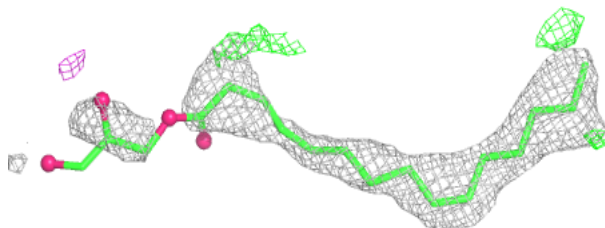


Electron density around LFA A 312:

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

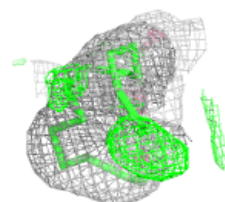
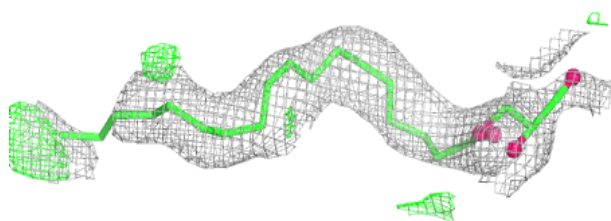
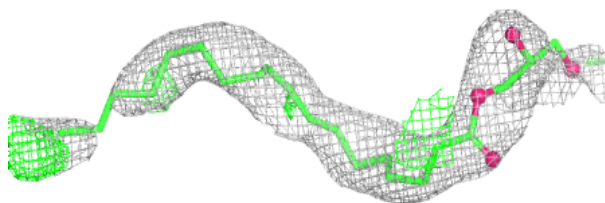
**Electron density around OLC C 303:**

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



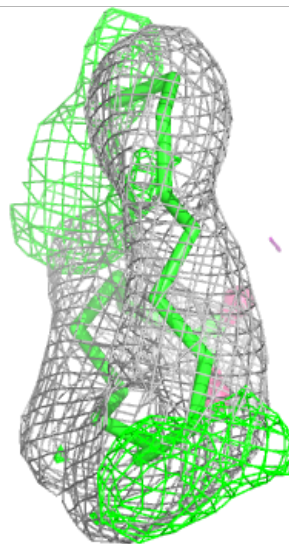
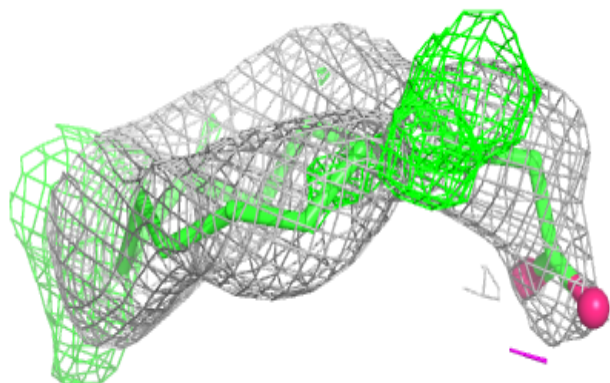
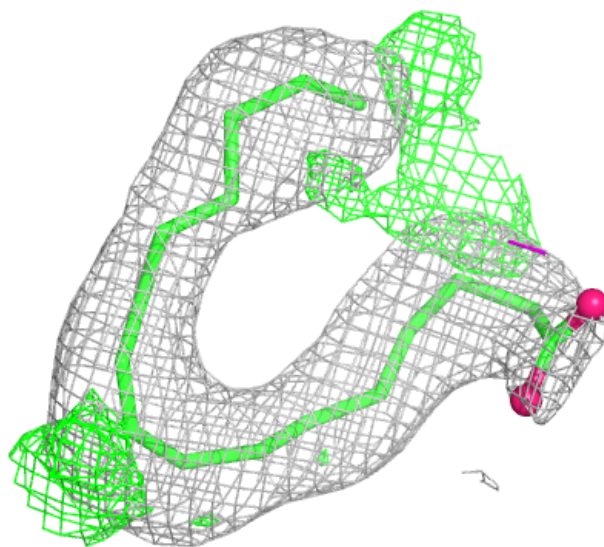
Electron density around OLC E 303:

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



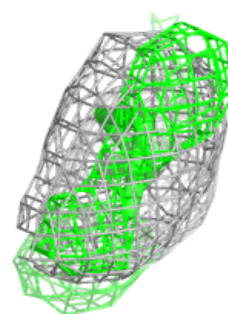
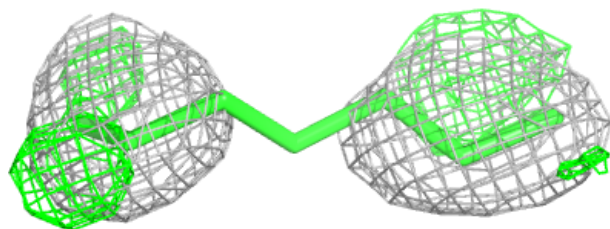
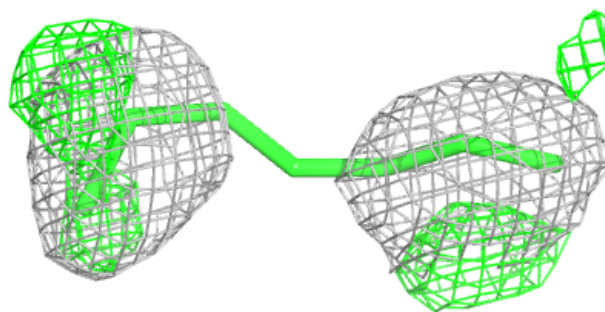
Electron density around OLA A 317:

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

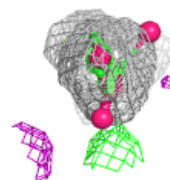
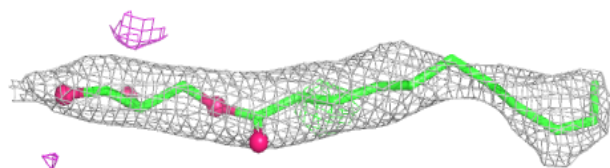
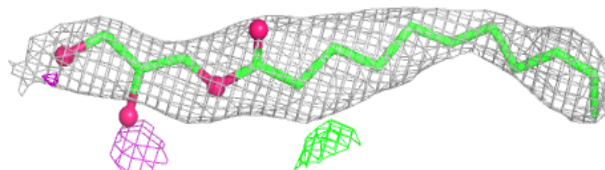


Electron density around LFA B 310:

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

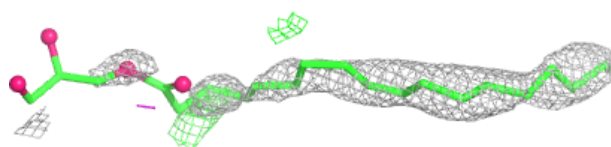
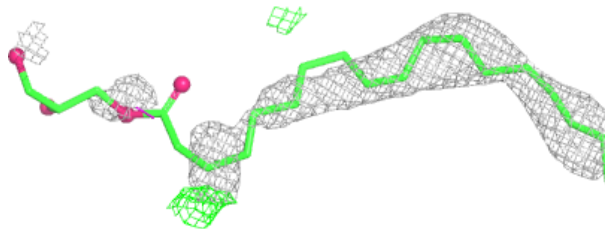
**Electron density around OLC D 406:**

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

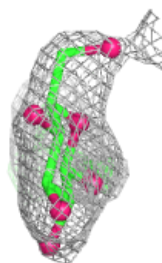
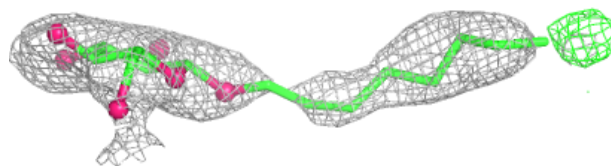
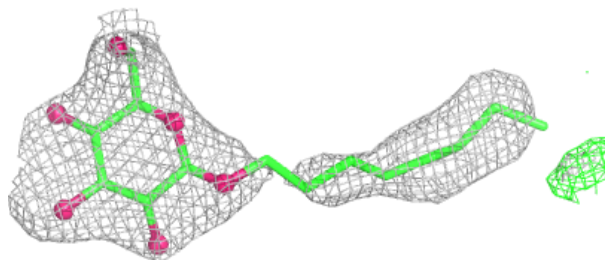


Electron density around OLC A 303:

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

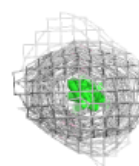
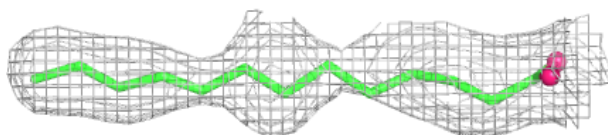
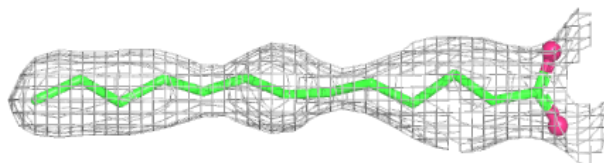
**Electron density around BOG B 312:**

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



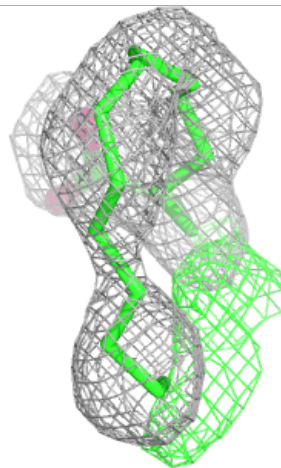
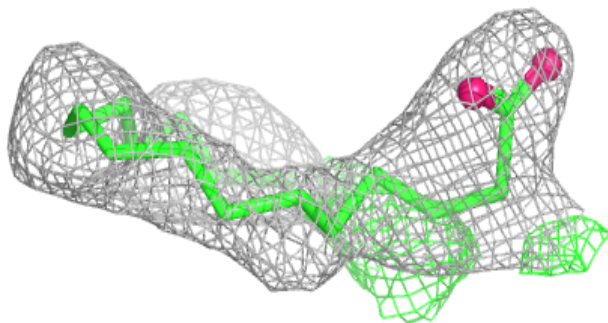
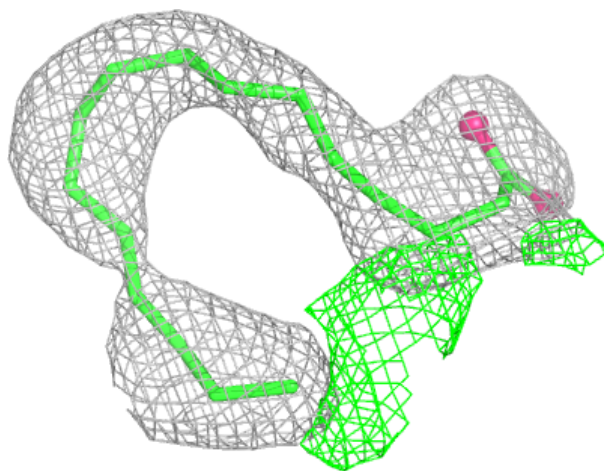
Electron density around OLA D 403:

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



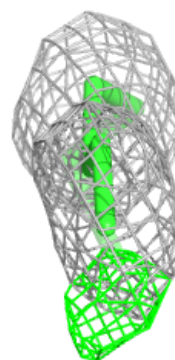
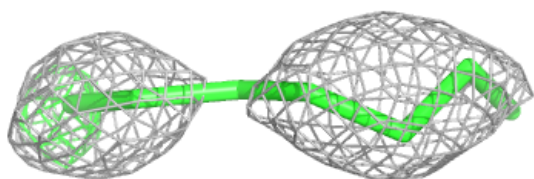
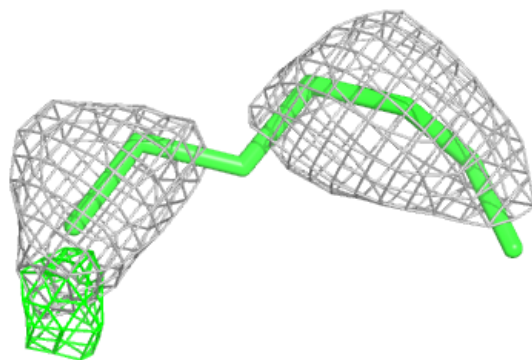
Electron density around OLA C 314:

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

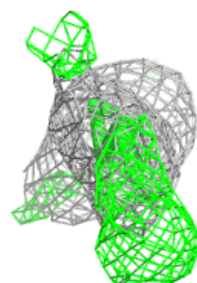
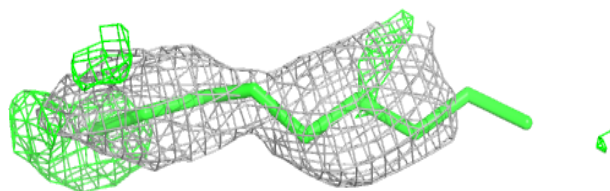
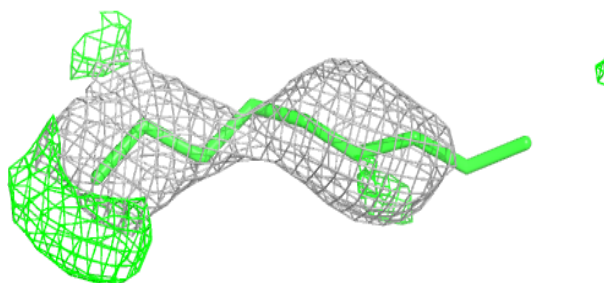


Electron density around LFA D 413:

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

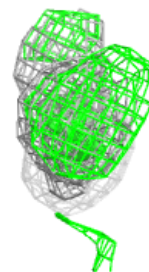
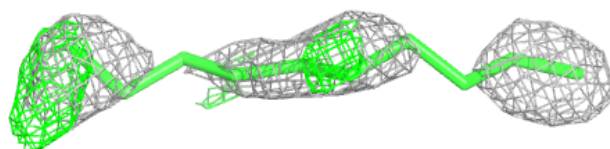
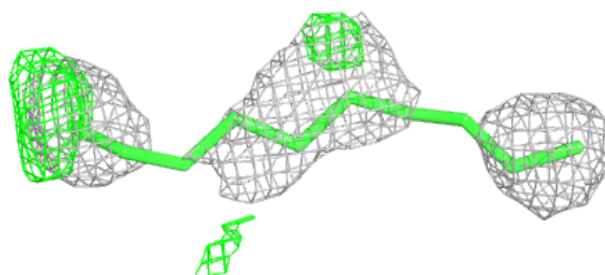
**Electron density around LFA B 307:**

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

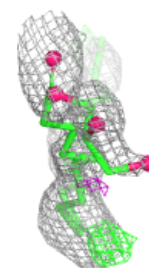
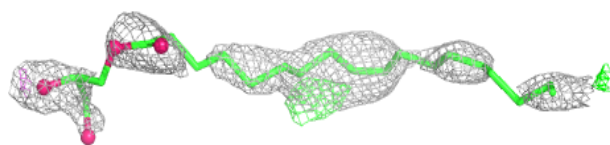
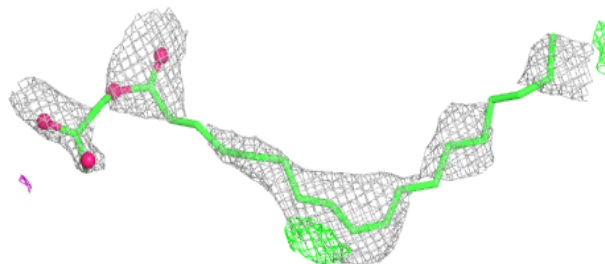


Electron density around LFA B 309:

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

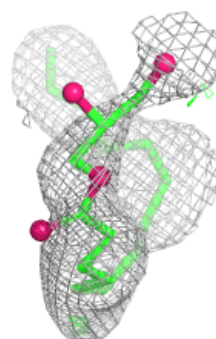
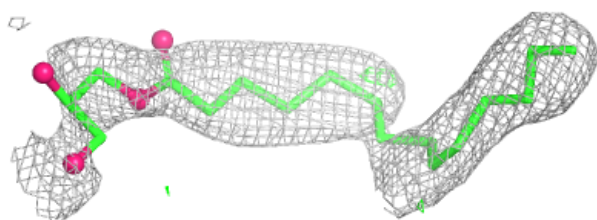
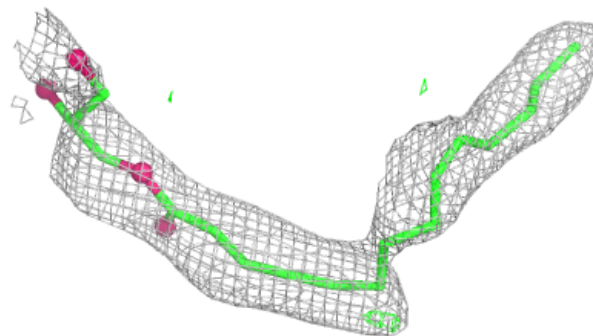
**Electron density around OLC D 405:**

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

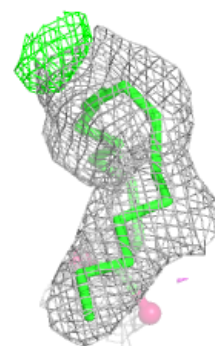
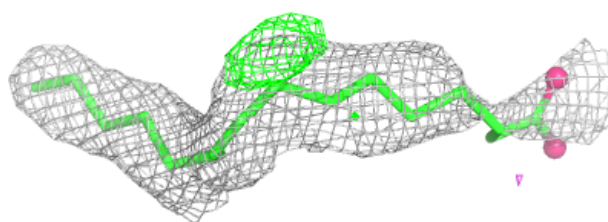
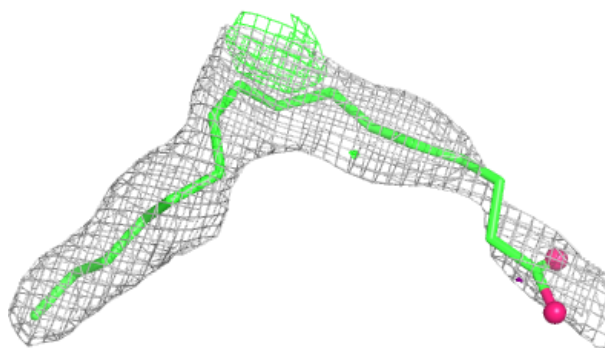


Electron density around OLC B 305:

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

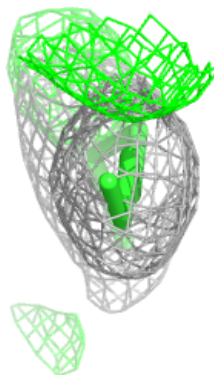
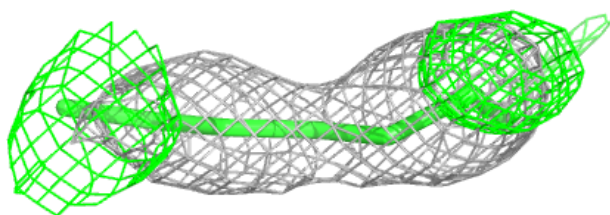
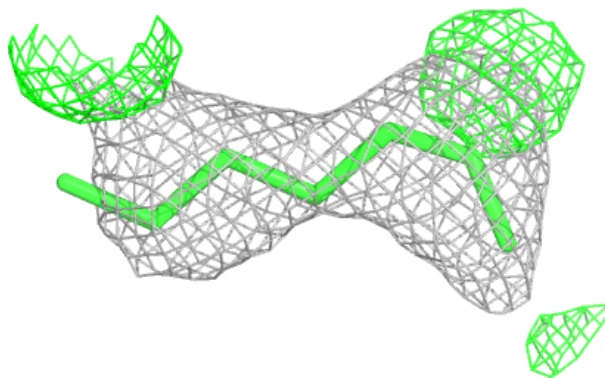
**Electron density around OLC D 407:**

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

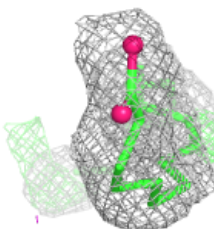
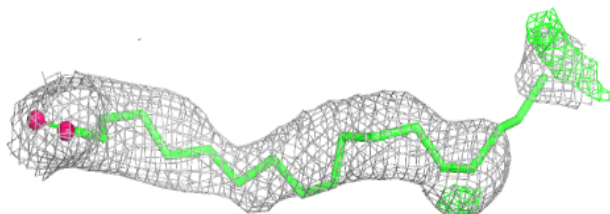
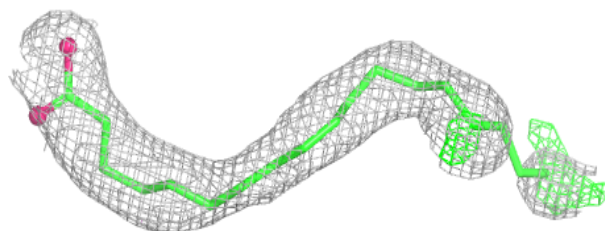


Electron density around LFA A 307:

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

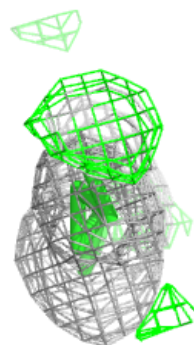
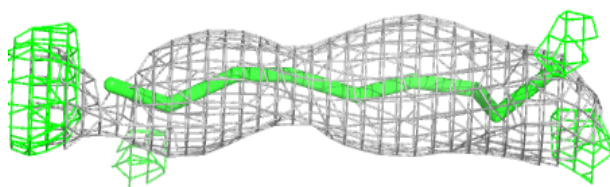
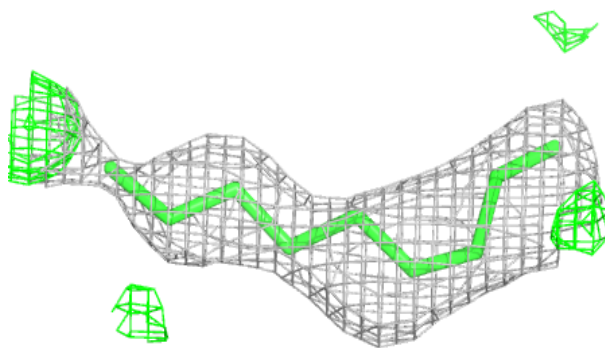
**Electron density around OLC A 315:**

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

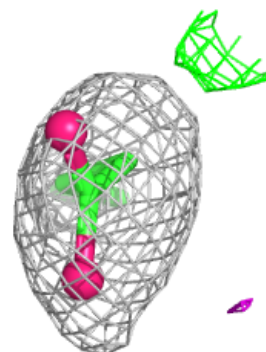
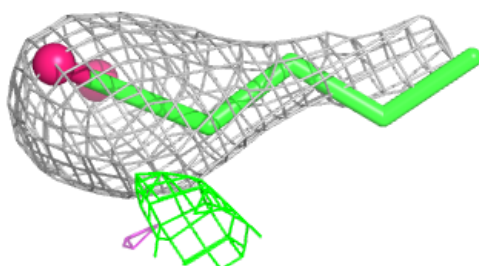
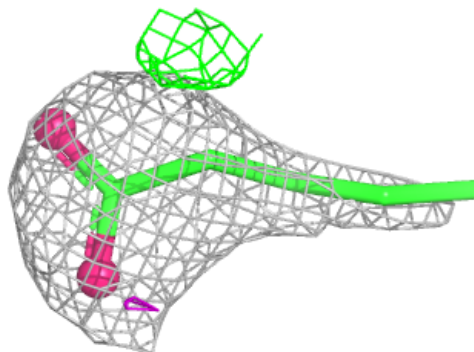


Electron density around OLC A 301:

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

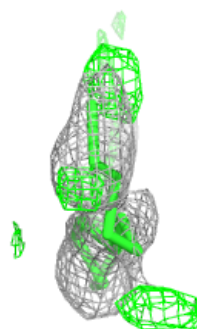
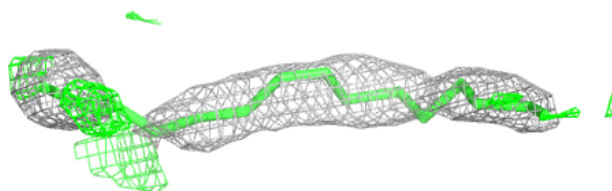
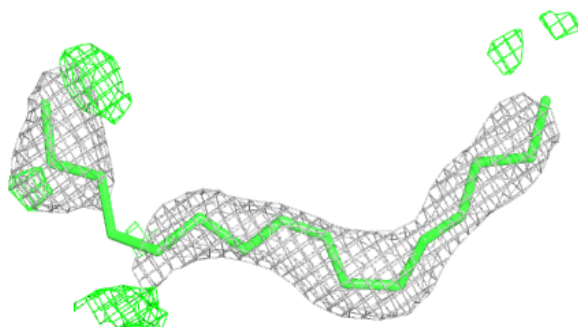
**Electron density around OLA E 316:**

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

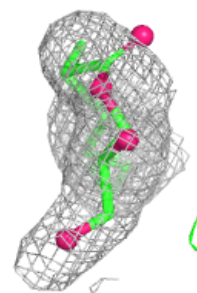
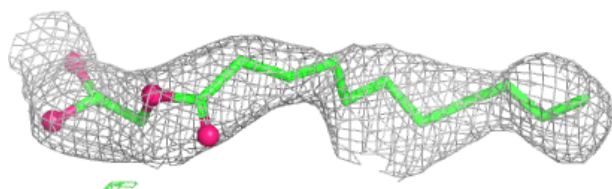
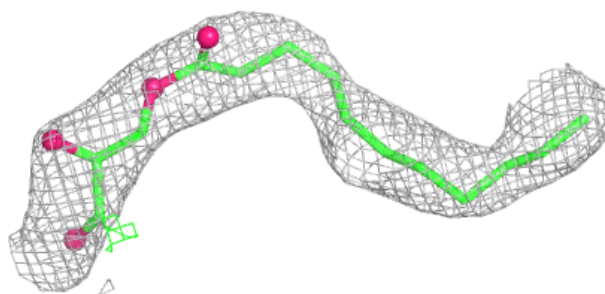


Electron density around OLC E 305:

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

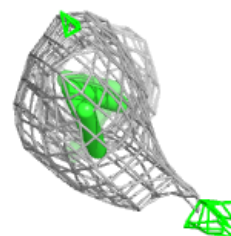
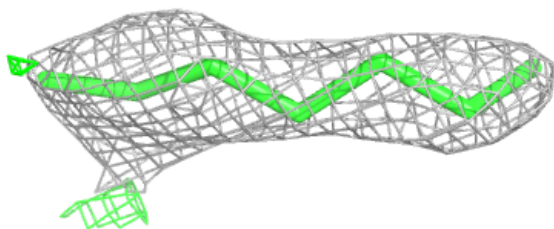
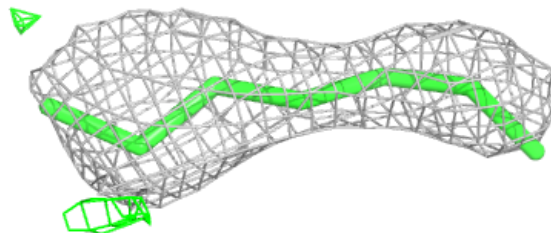
**Electron density around OLC C 315:**

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



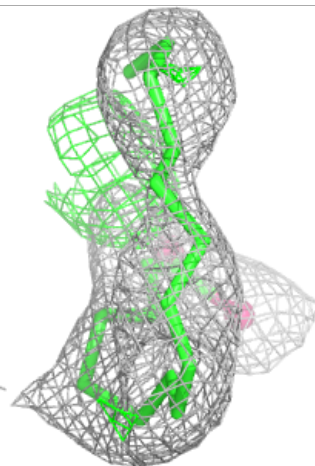
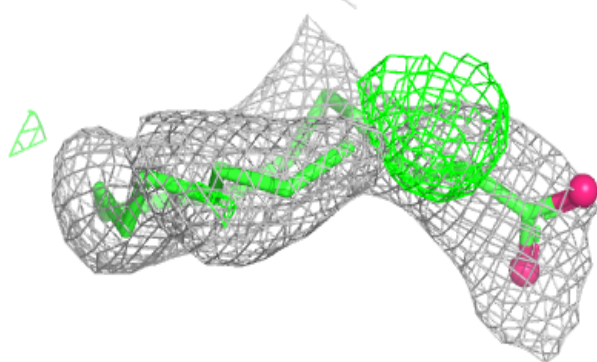
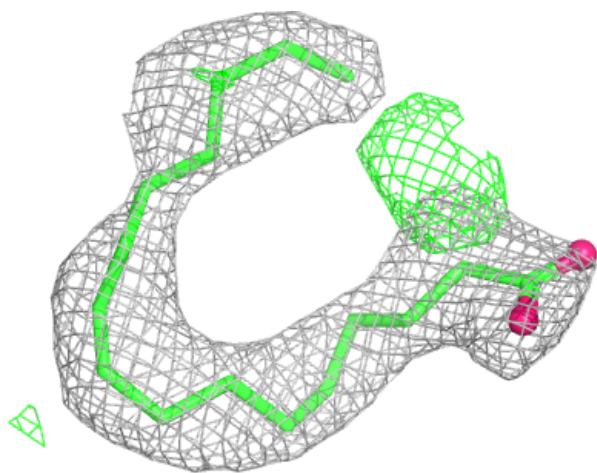
Electron density around LFA C 307:

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



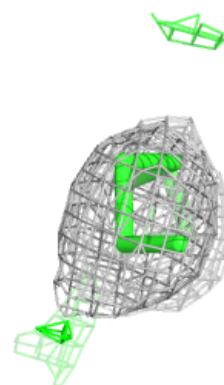
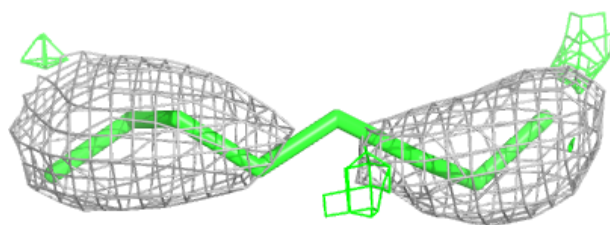
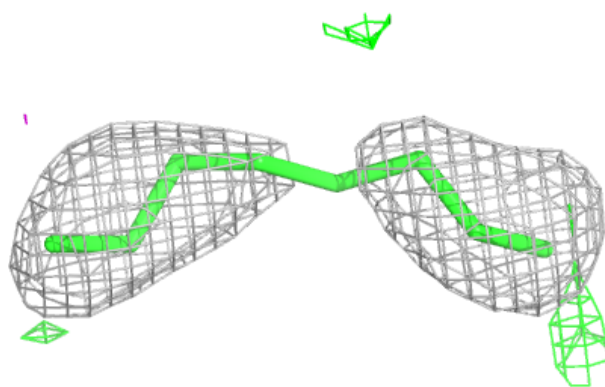
Electron density around OLA D 417:

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

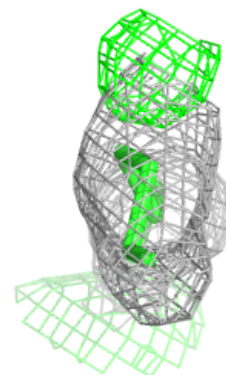
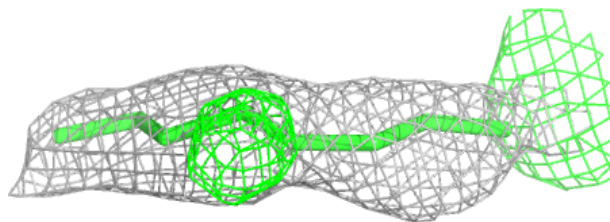
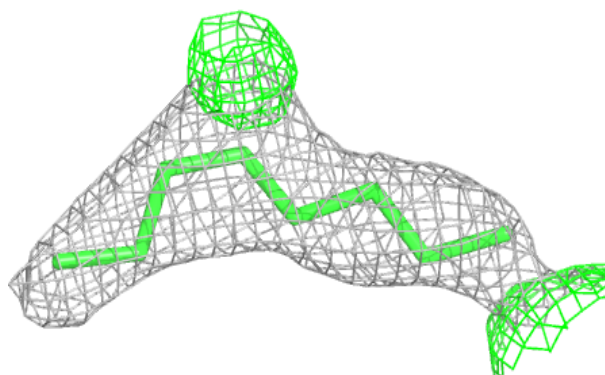


Electron density around LFA D 411:

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

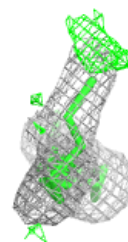
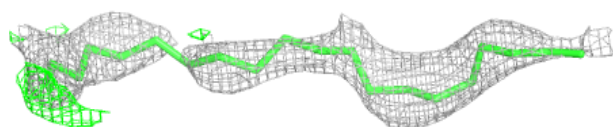
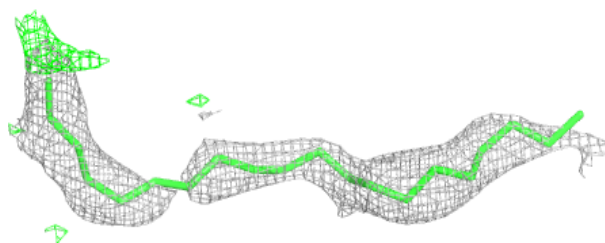
**Electron density around OLC E 304:**

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

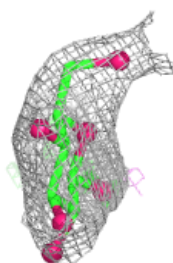
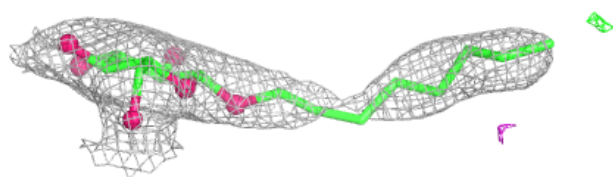
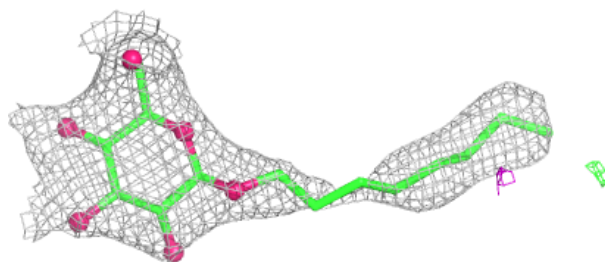


Electron density around LFA D 409:

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

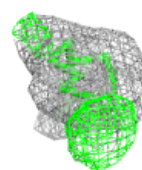
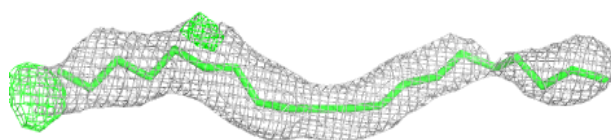
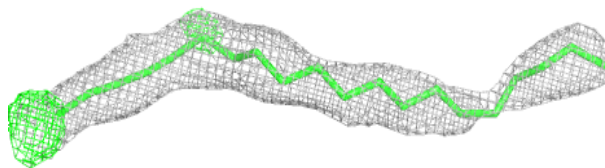
**Electron density around BOG A 314:**

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

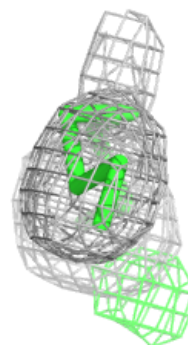
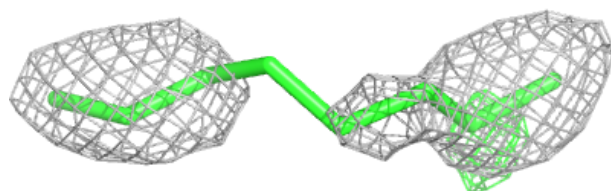
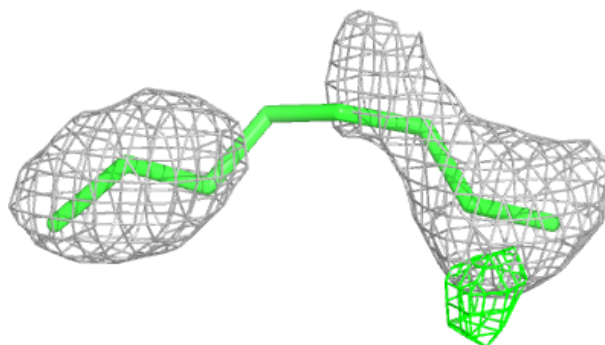


Electron density around LFA D 410:

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

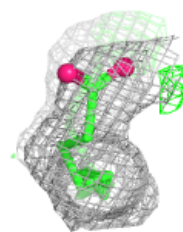
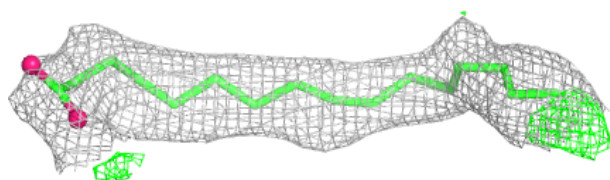
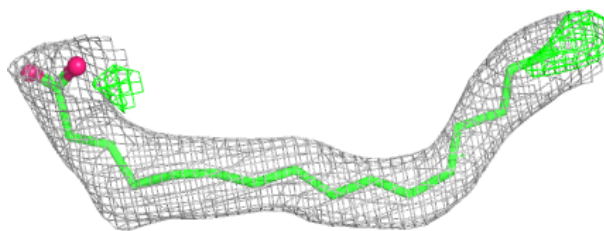
**Electron density around LFA A 309:**

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

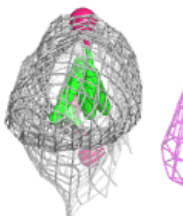
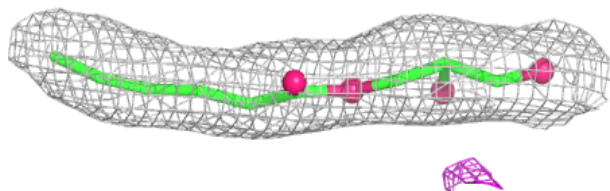
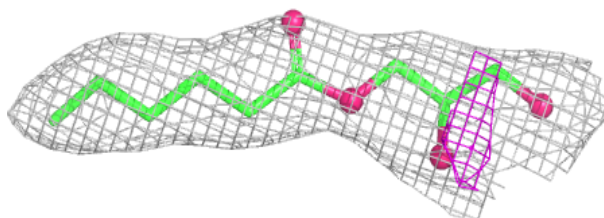


Electron density around OLA B 316:

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

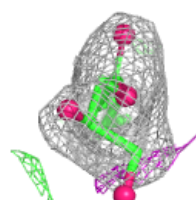
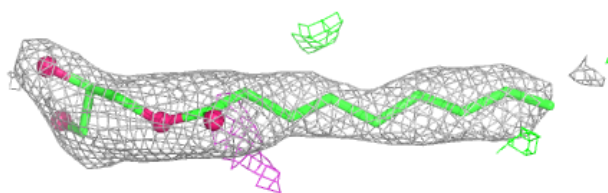
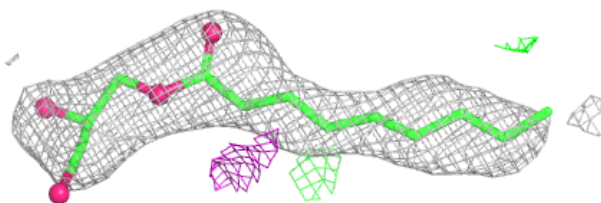
**Electron density around OLC A 304:**

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

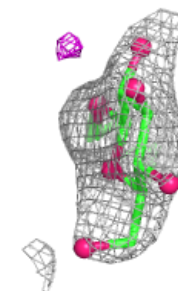
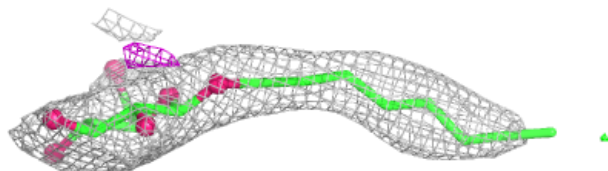
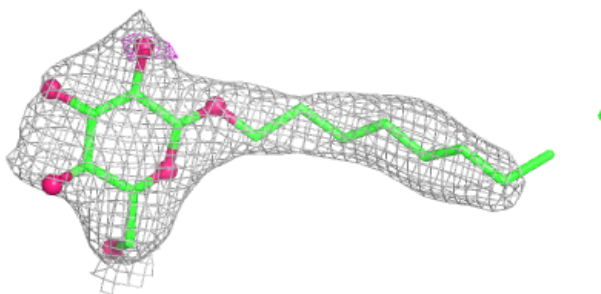


Electron density around OLC B 306:

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

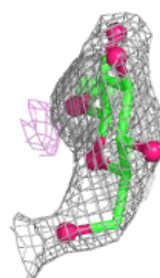
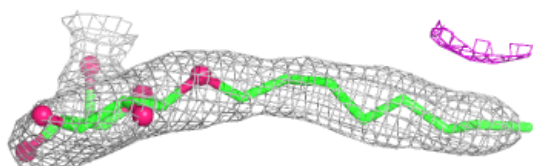
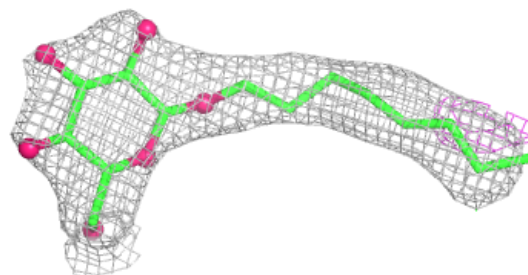
**Electron density around BOG C 311:**

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

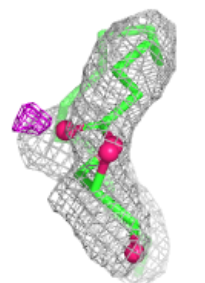
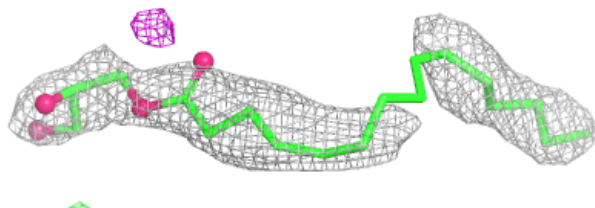
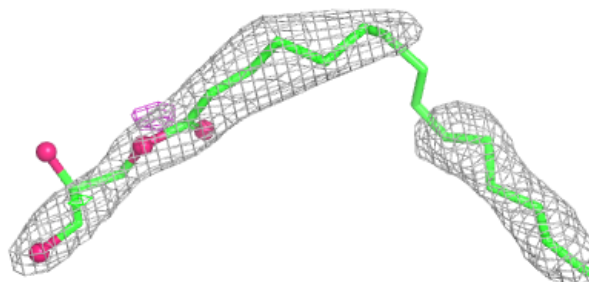


Electron density around BOG E 315:

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

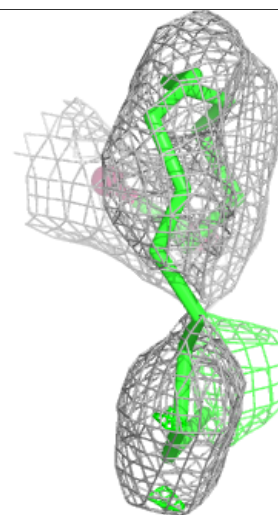
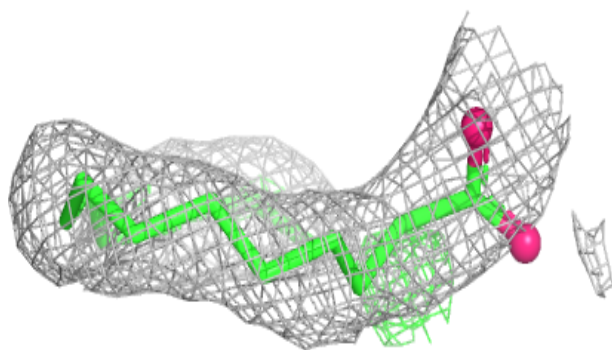
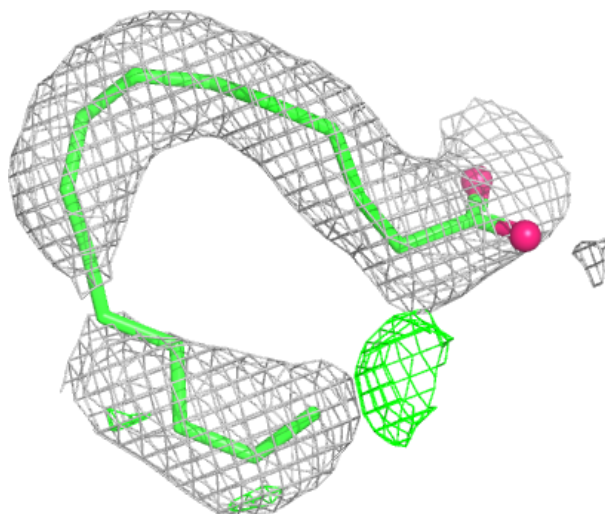
**Electron density around OLC C 305:**

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



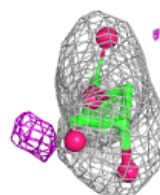
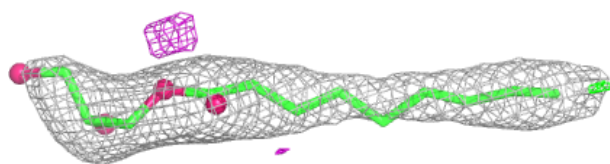
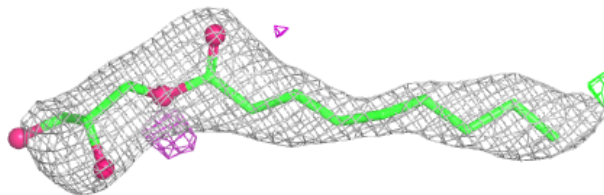
Electron density around OLA E 317:

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

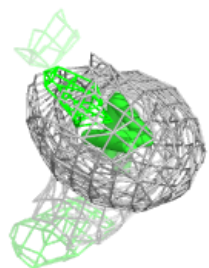
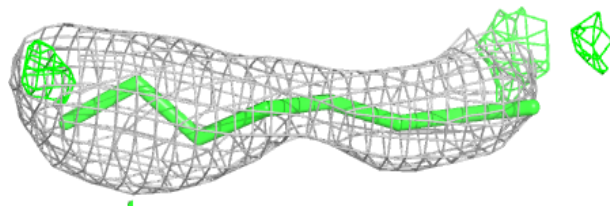
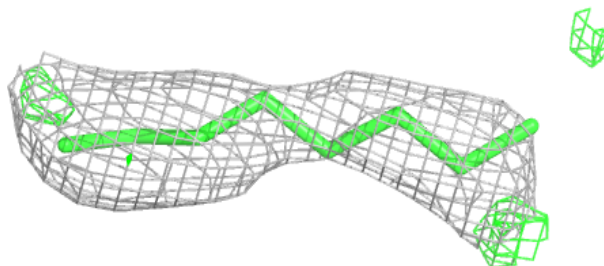


Electron density around OLC C 306:

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

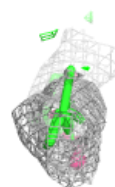
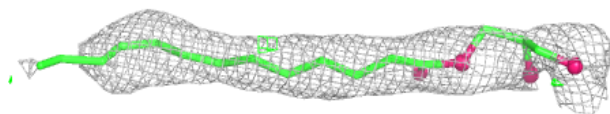
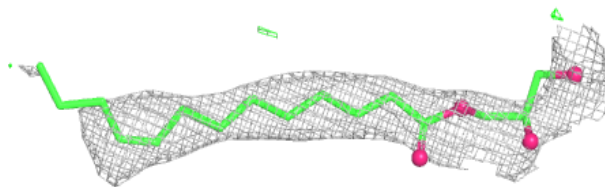
**Electron density around LFA B 308:**

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

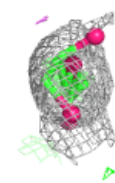
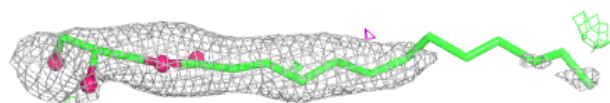
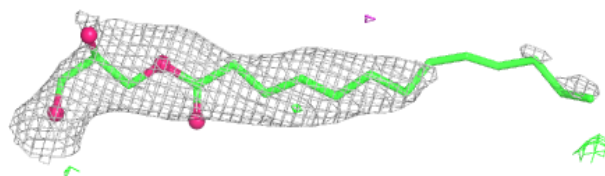


Electron density around OLC B 304:

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

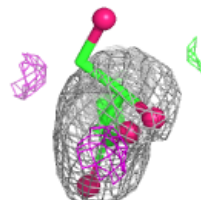
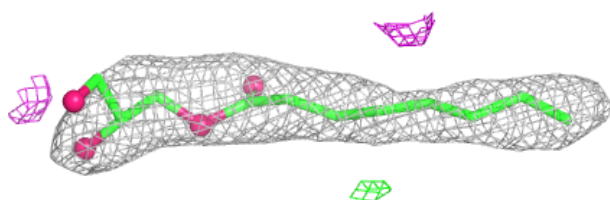
**Electron density around OLC C 304:**

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

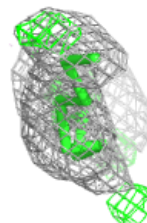
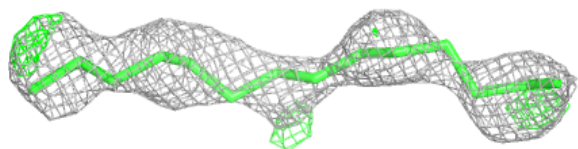
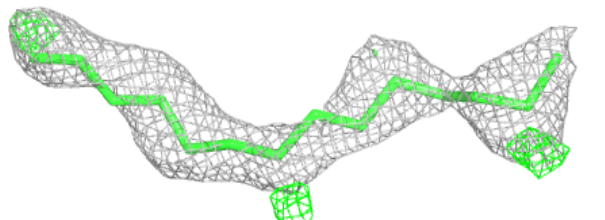


Electron density around OLC A 306:

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

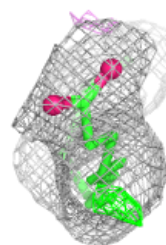
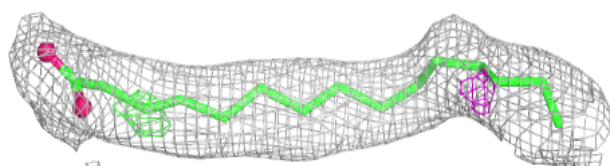
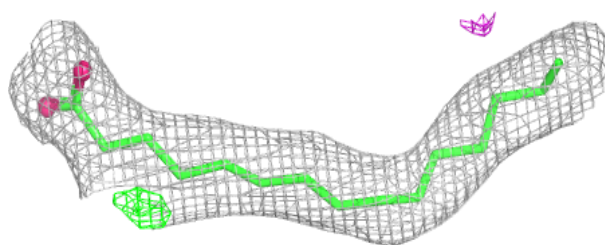
**Electron density around LFA E 311:**

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

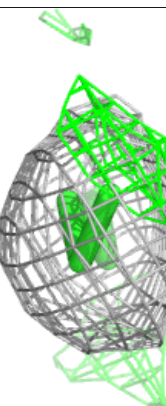
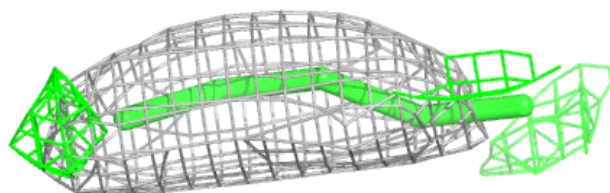
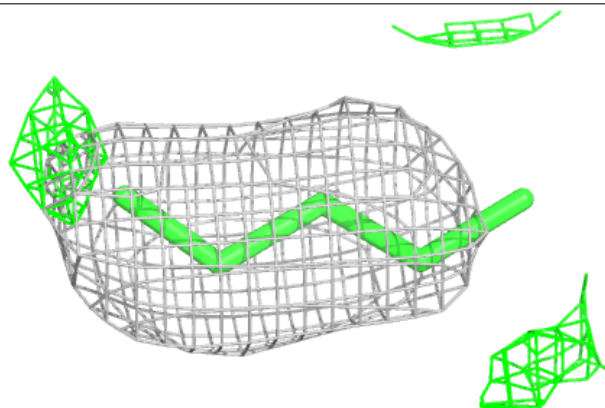


Electron density around OLA B 315:

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

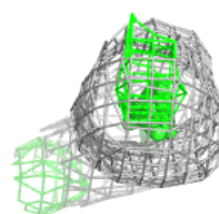
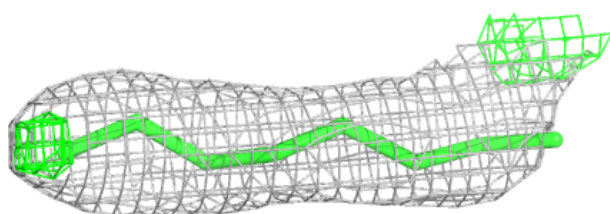
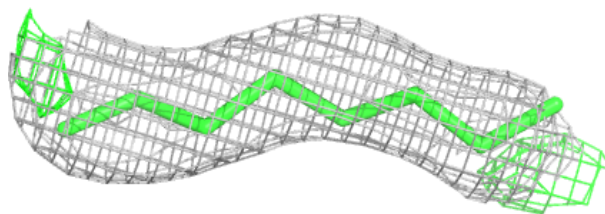
**Electron density around LFA E 313:**

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

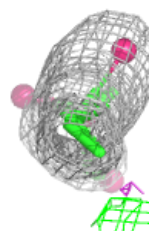
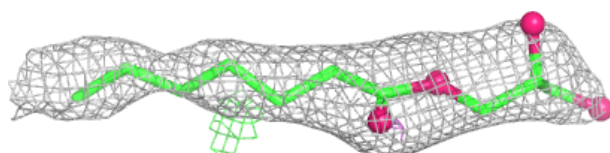
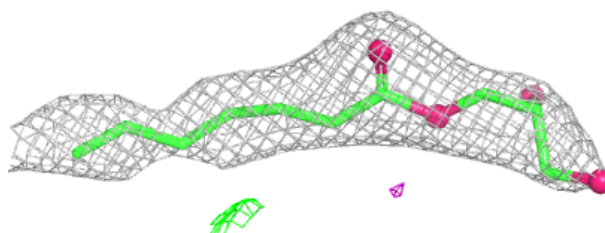


Electron density around LFA E 310:

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

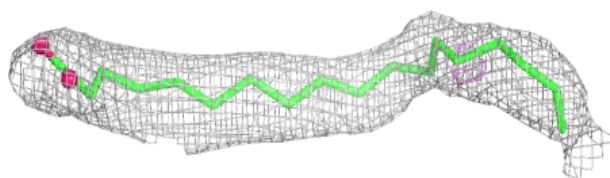
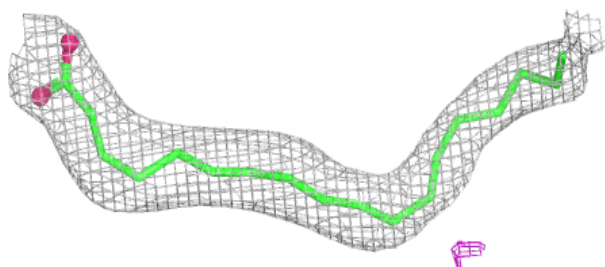
**Electron density around OLC D 408:**

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

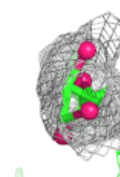
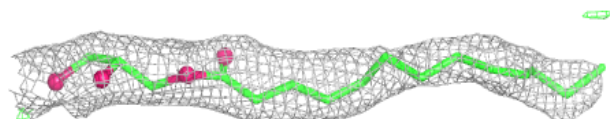
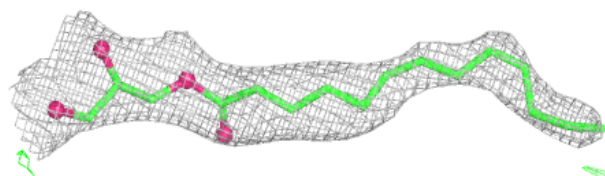


Electron density around OLA D 401:

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

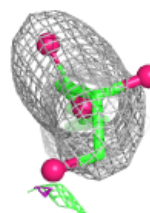
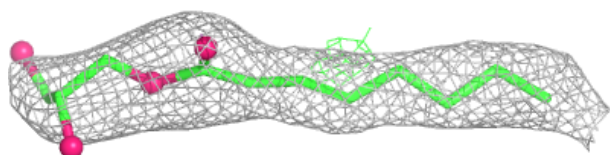
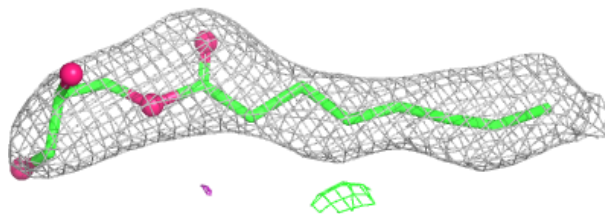
**Electron density around OLC E 306:**

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

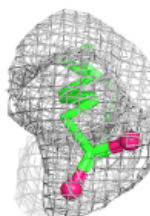
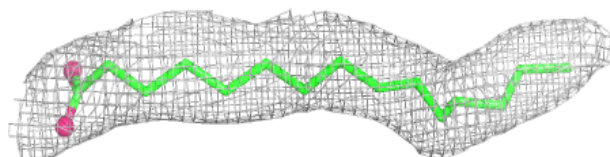
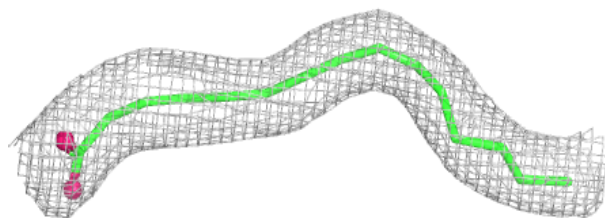


Electron density around OLC E 308:

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

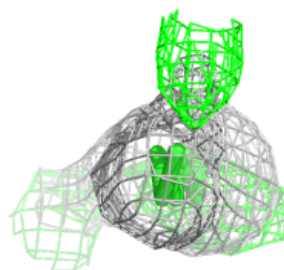
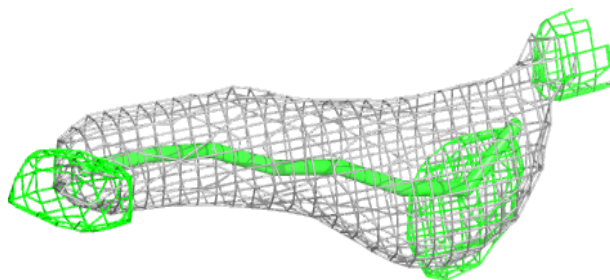
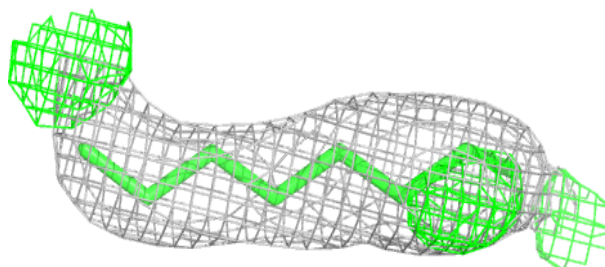
**Electron density around OLA E 302:**

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

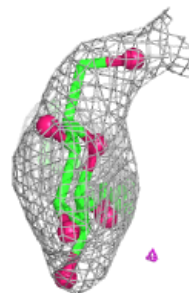
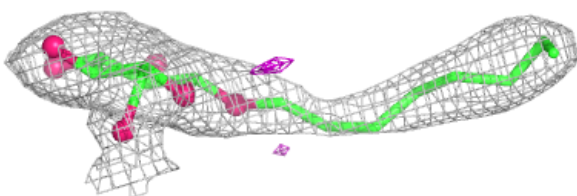
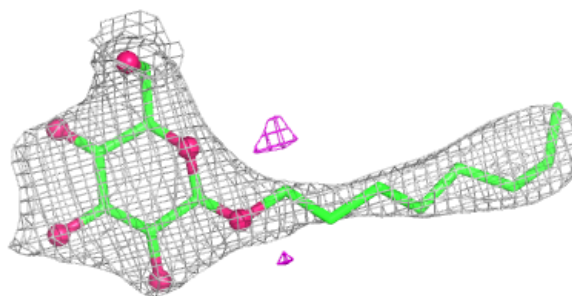


Electron density around LFA A 308:

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

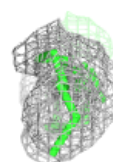
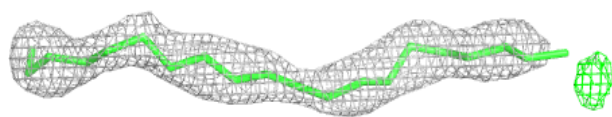
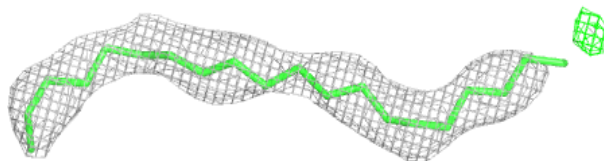
**Electron density around BOG D 416:**

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

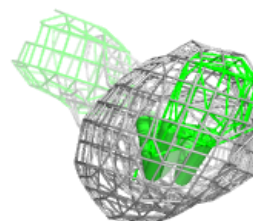
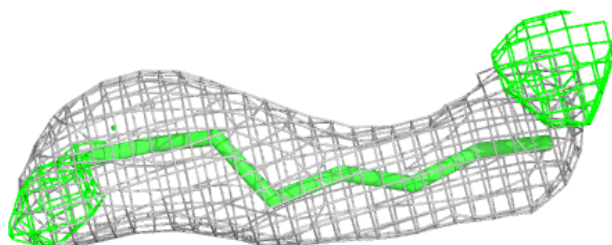
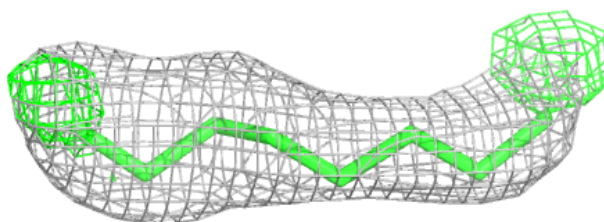


Electron density around LFA C 309:

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

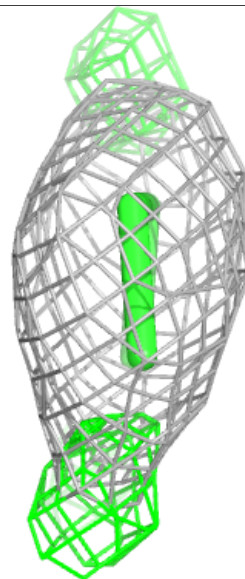
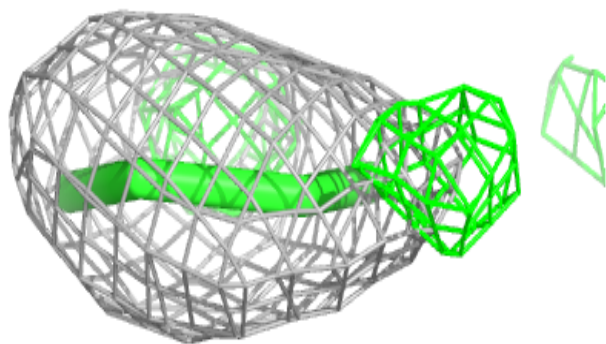
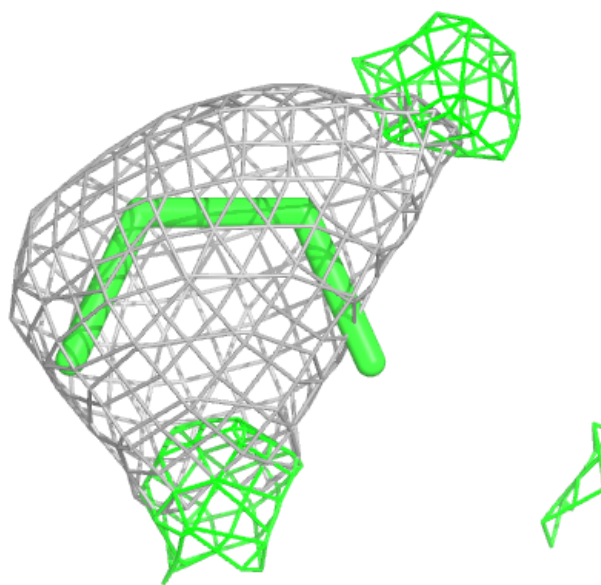
**Electron density around LFA C 308:**

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



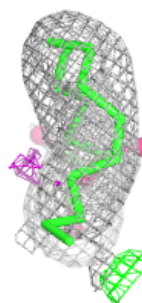
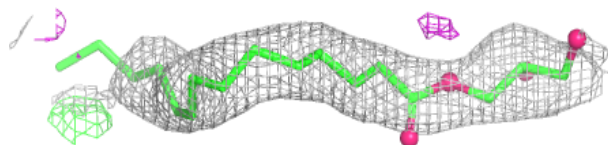
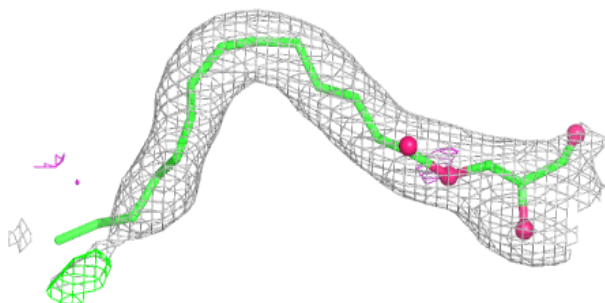
Electron density around LFA E 312:

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

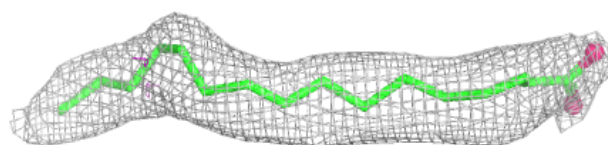
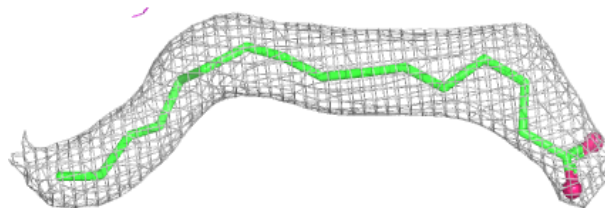


Electron density around OLC B 303:

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

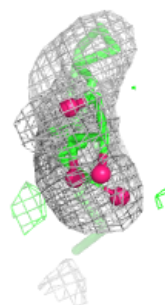
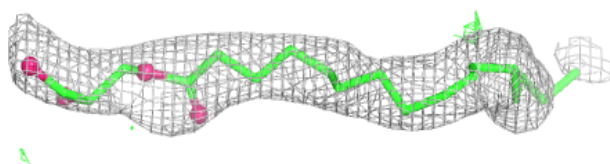
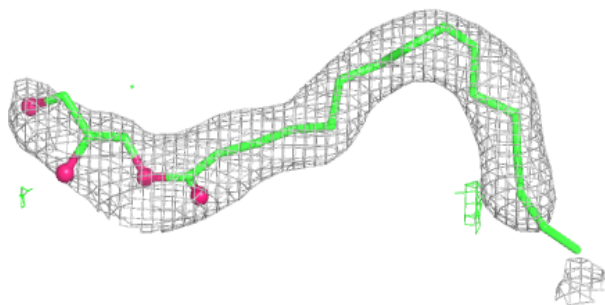
**Electron density around OLA C 312:**

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



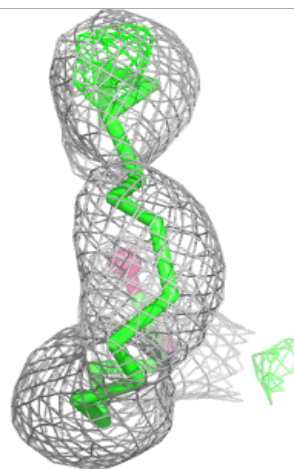
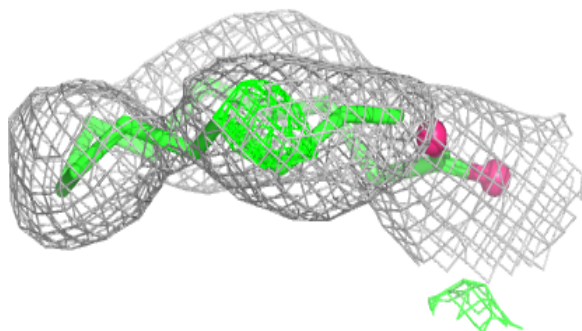
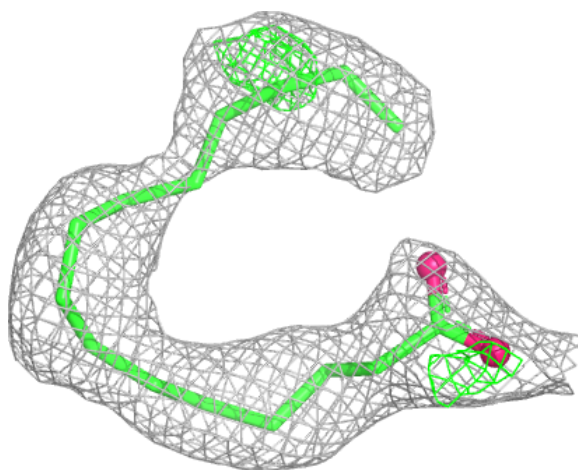
Electron density around OLC C 302:

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



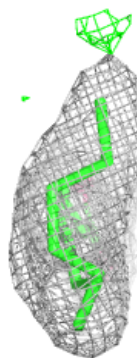
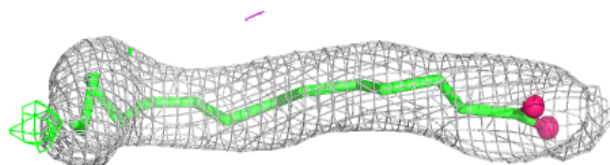
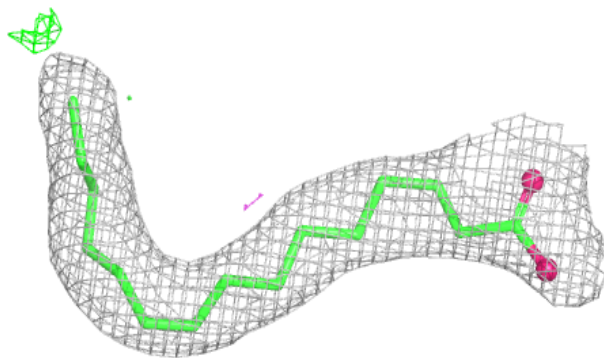
Electron density around OLA B 314:

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

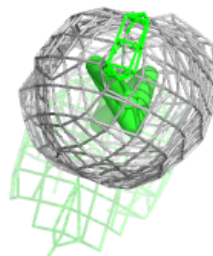
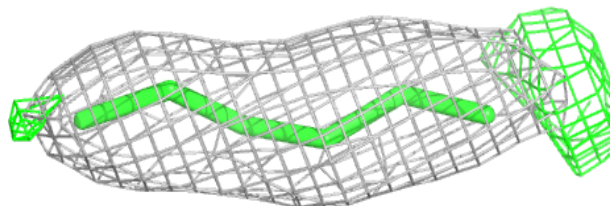
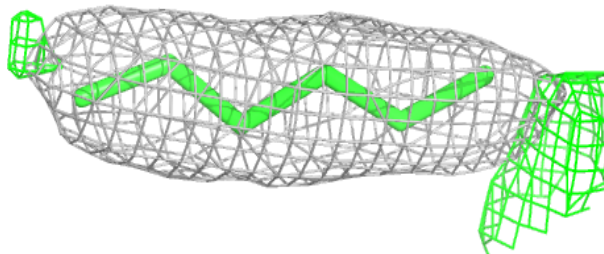


Electron density around OLC A 302:

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

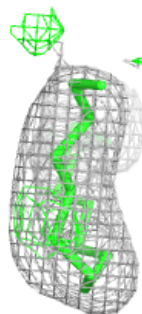
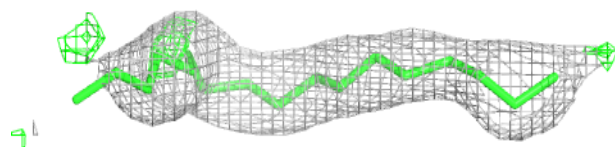
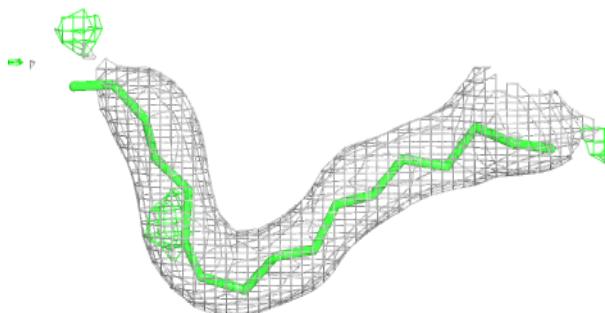
**Electron density around LFA A 311:**

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

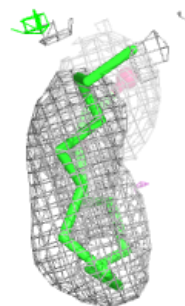
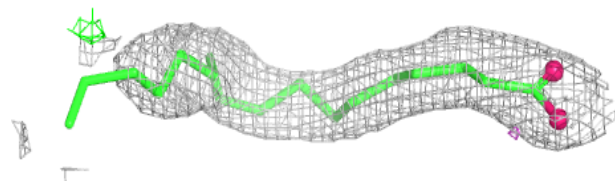
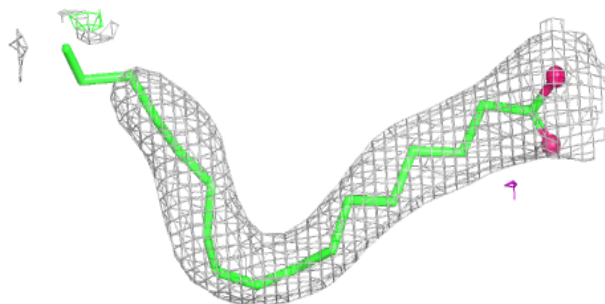


Electron density around LFA D 412:

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

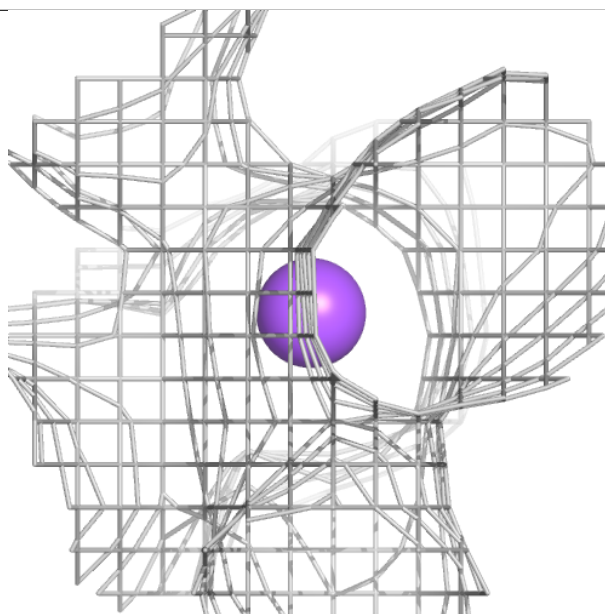
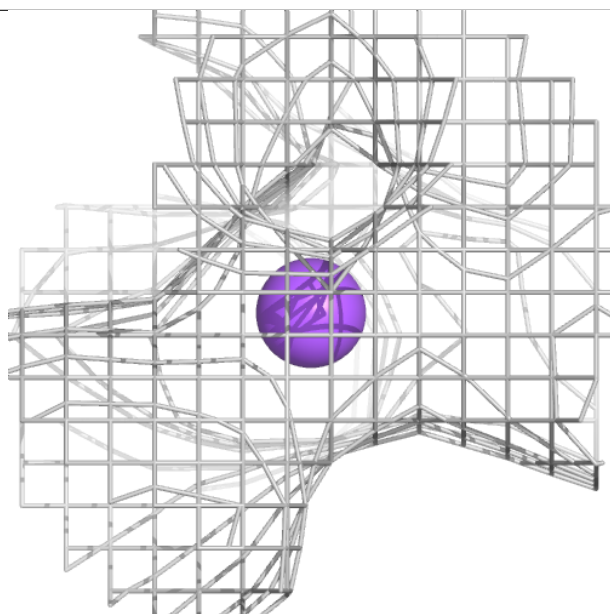
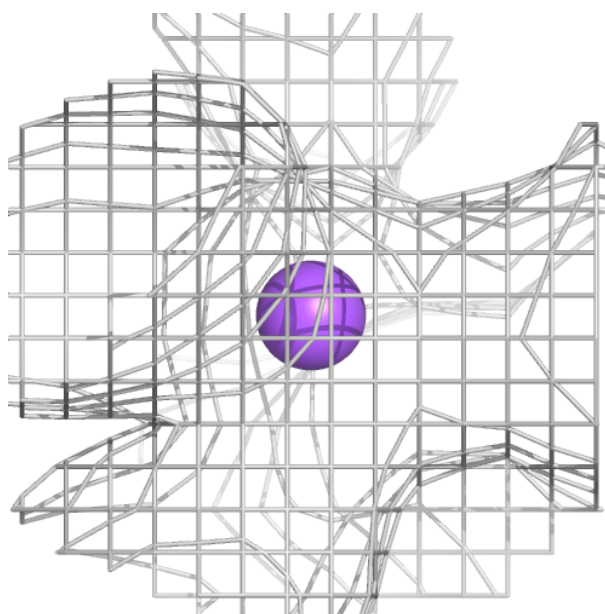
**Electron density around OLC E 301:**

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



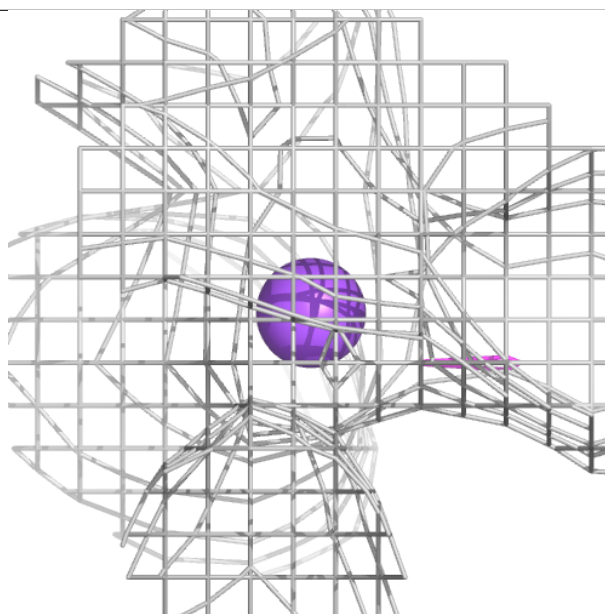
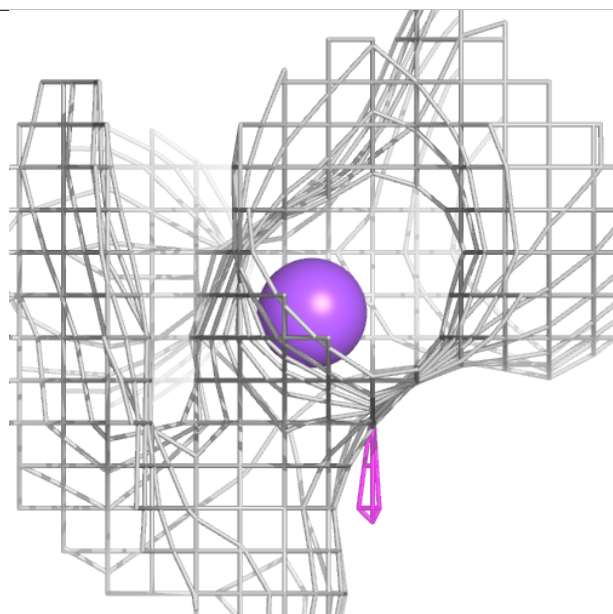
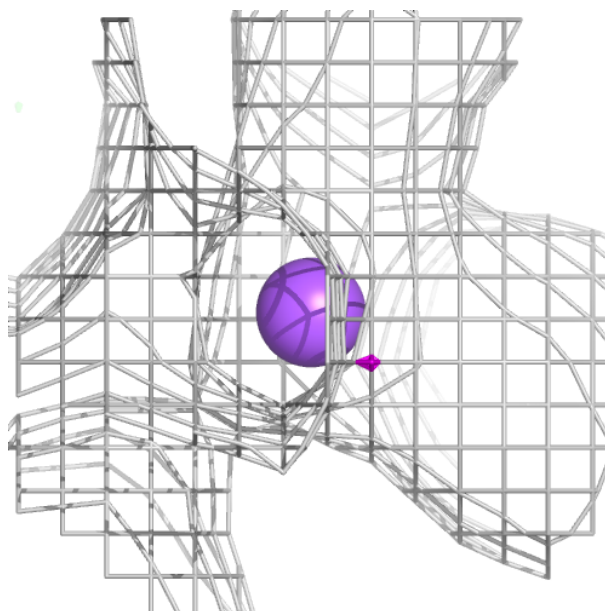
Electron density around NA D 418:

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



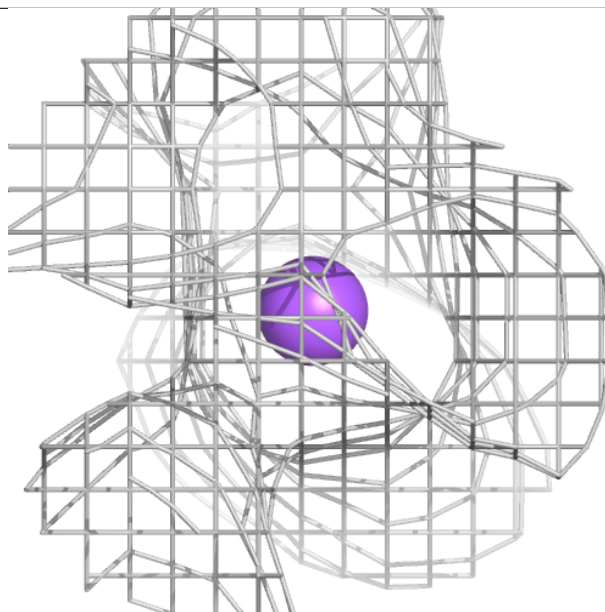
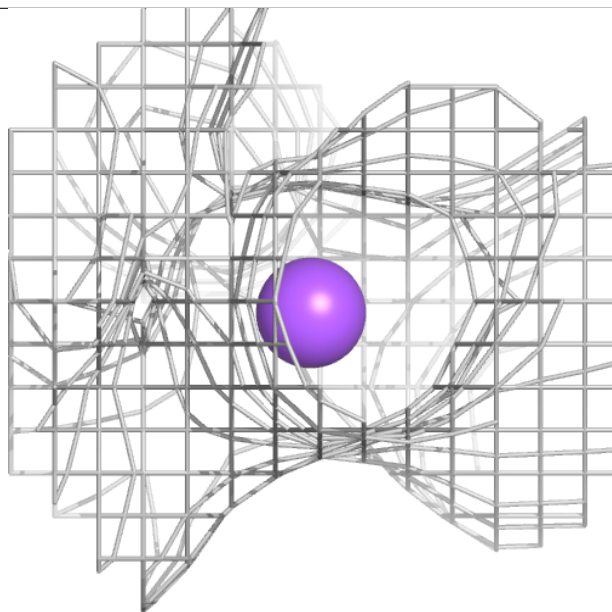
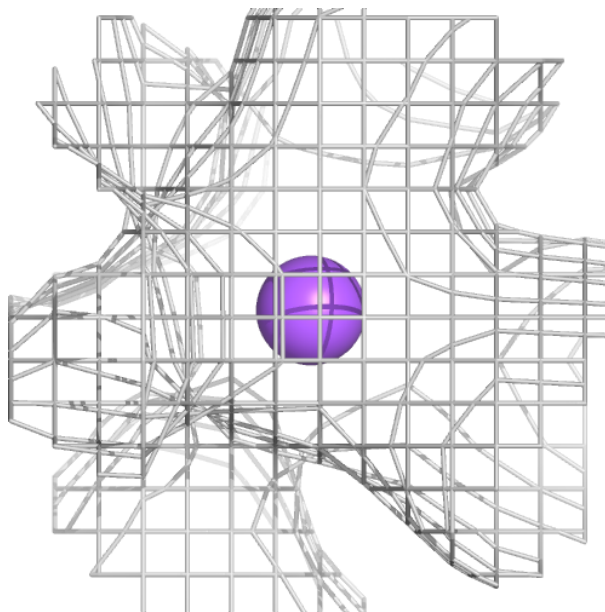
Electron density around NA E 318:

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



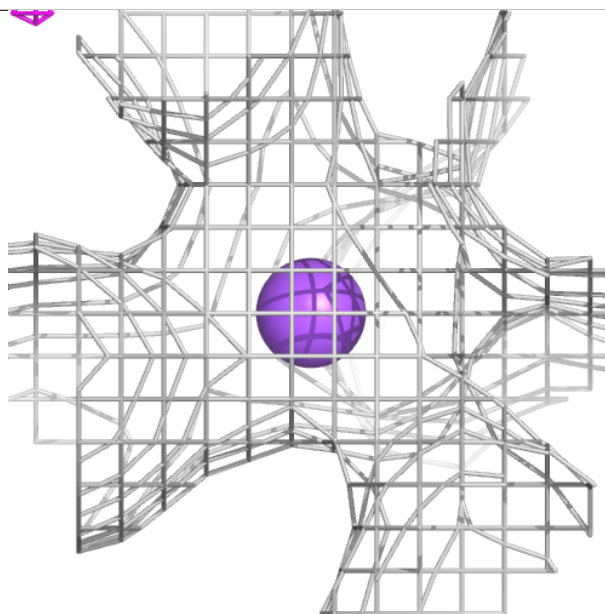
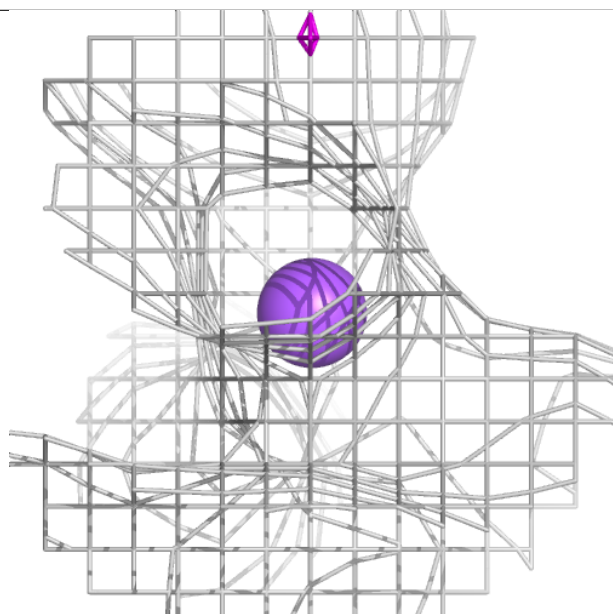
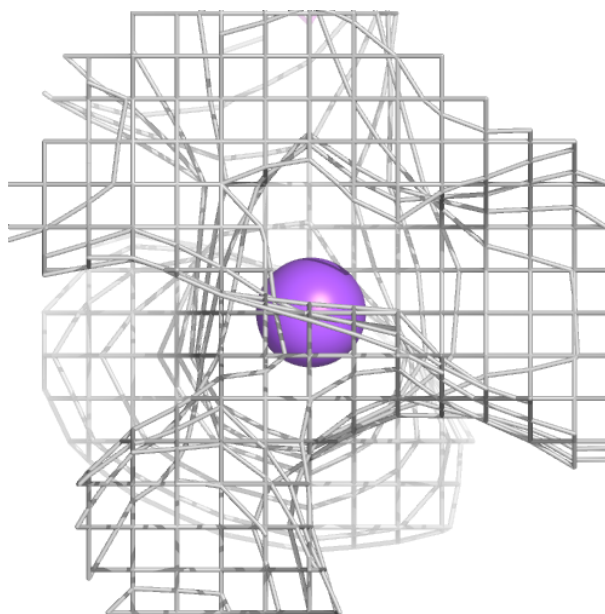
Electron density around NA B 318:

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



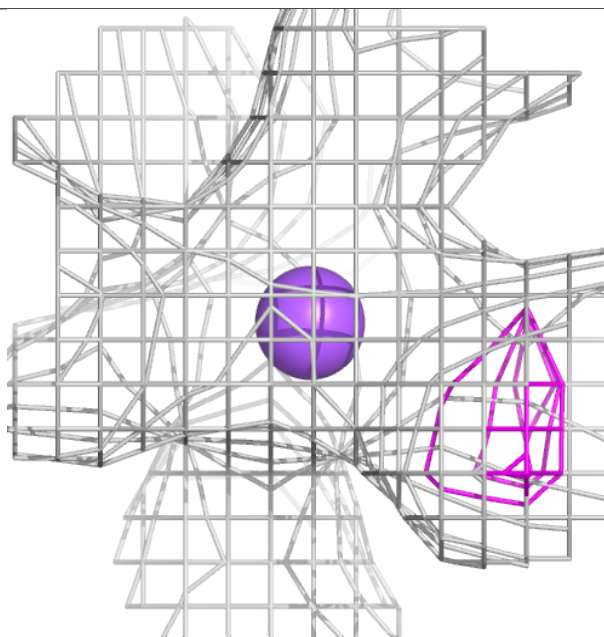
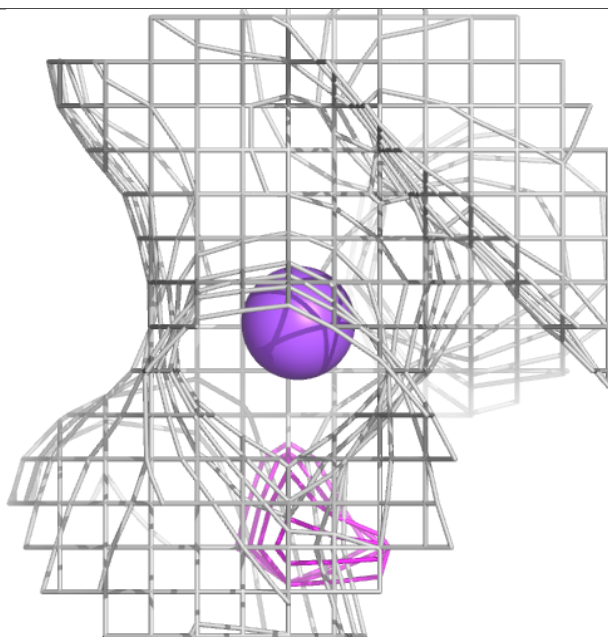
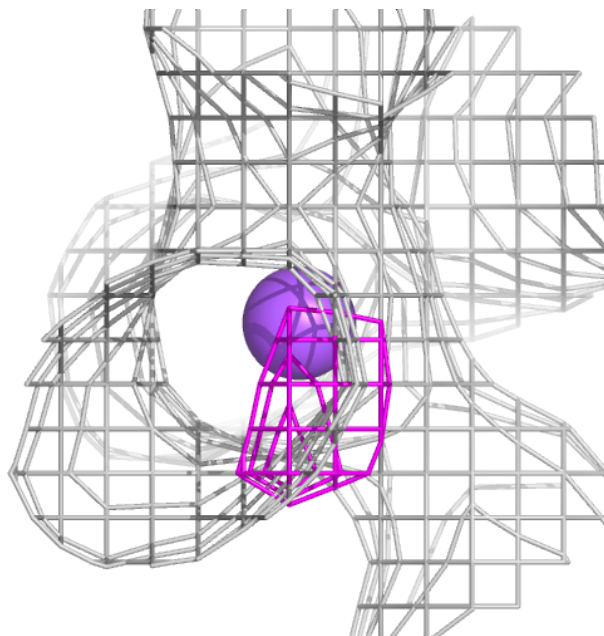
Electron density around NA A 319:

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



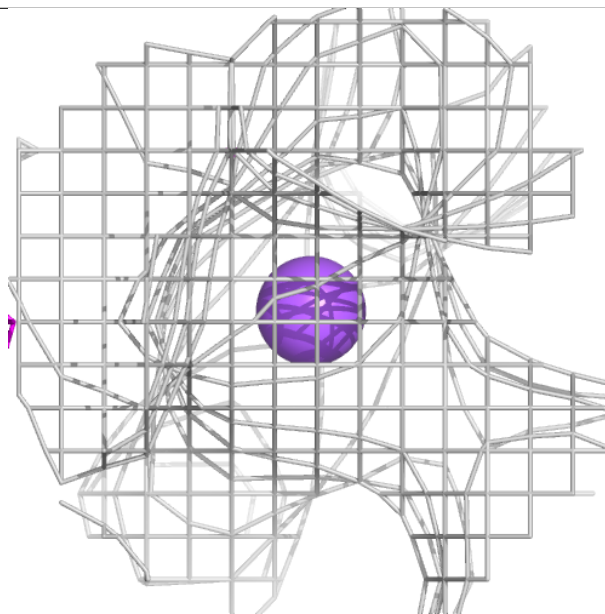
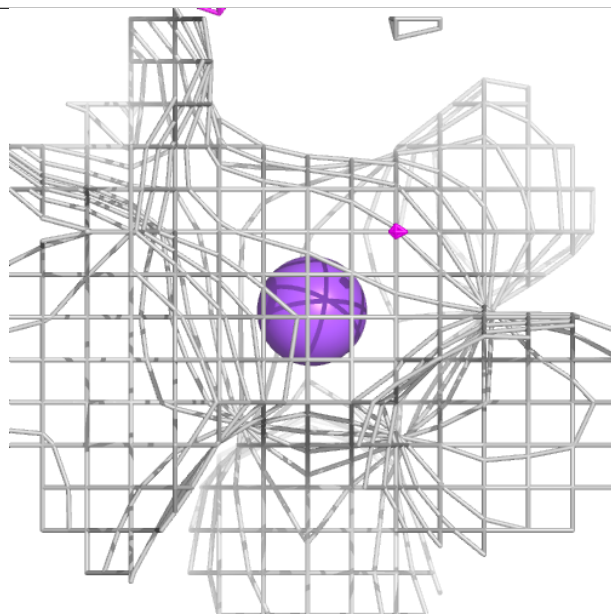
Electron density around NA C 316:

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



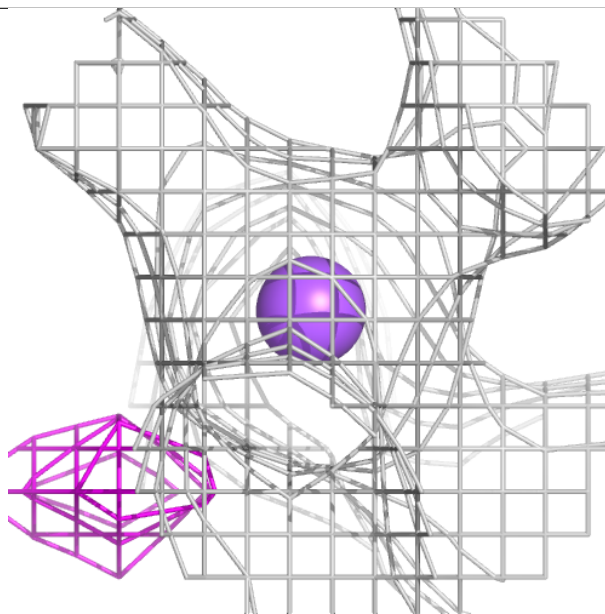
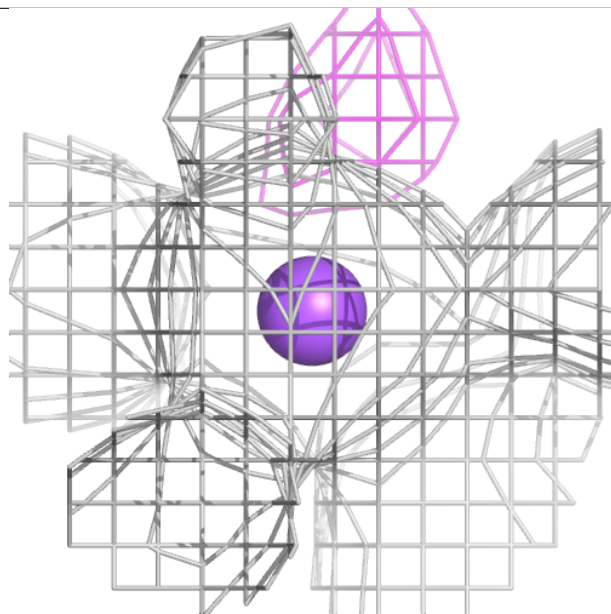
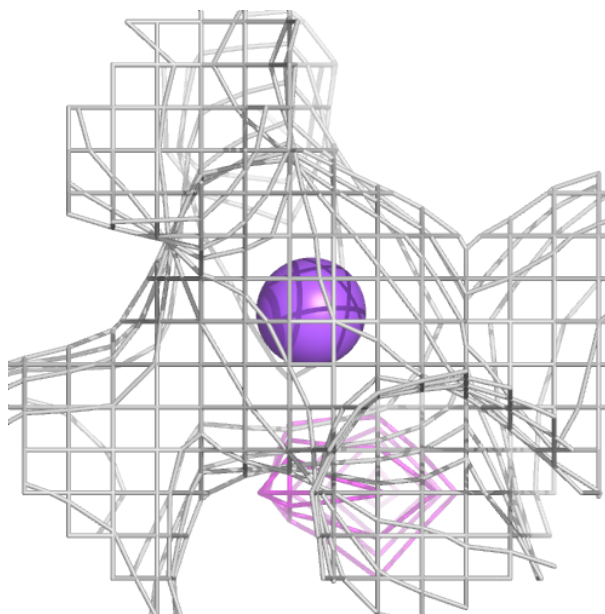
Electron density around NA A 313:

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



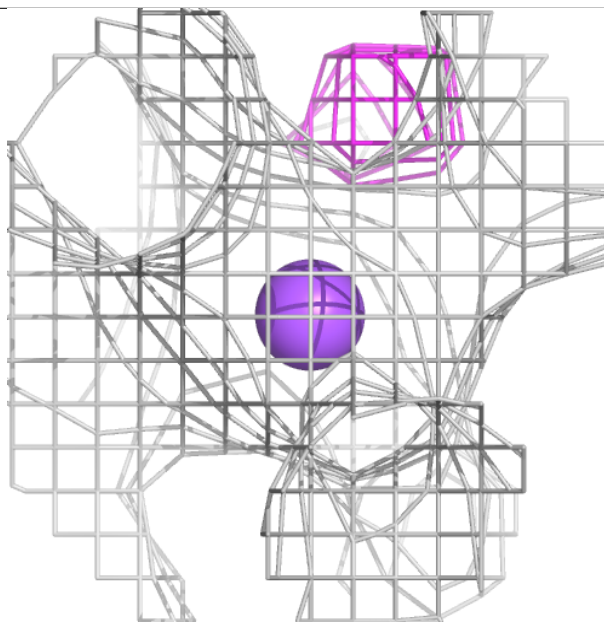
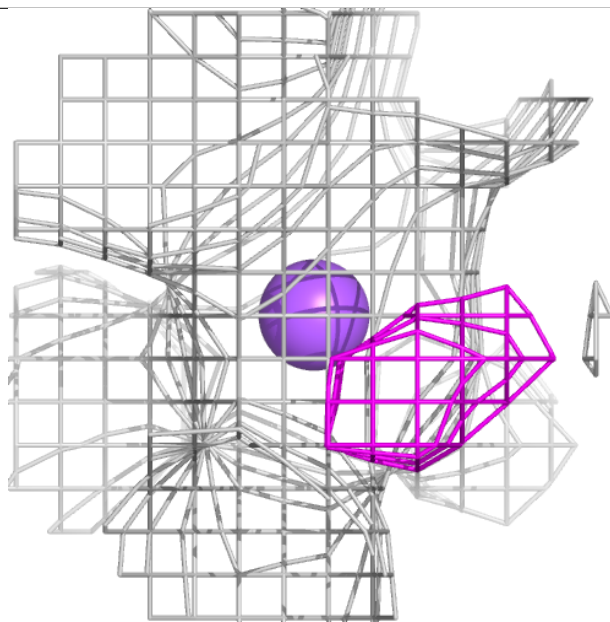
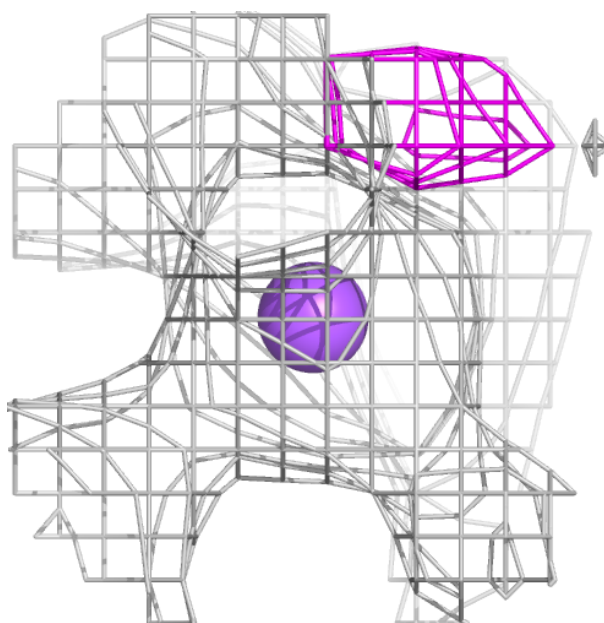
Electron density around NA C 310:

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



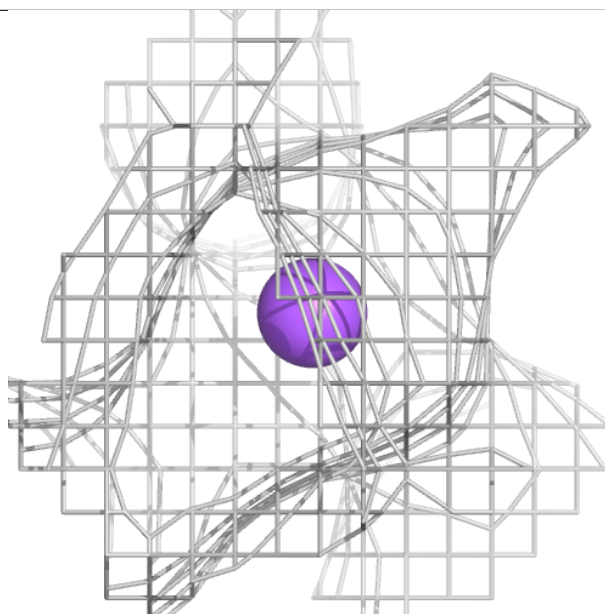
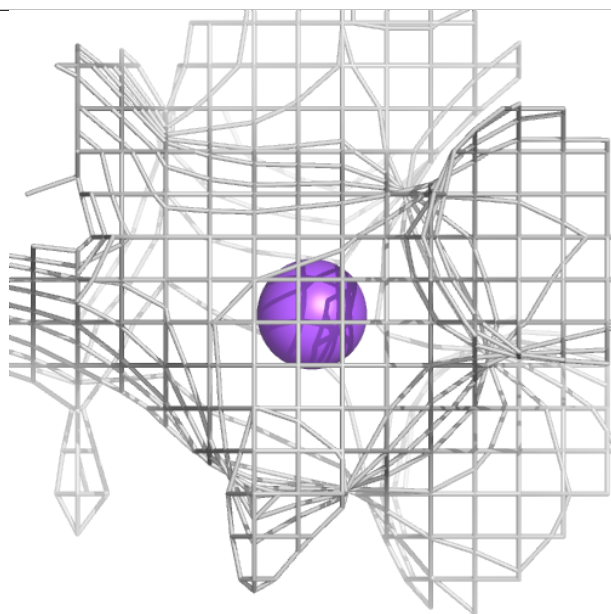
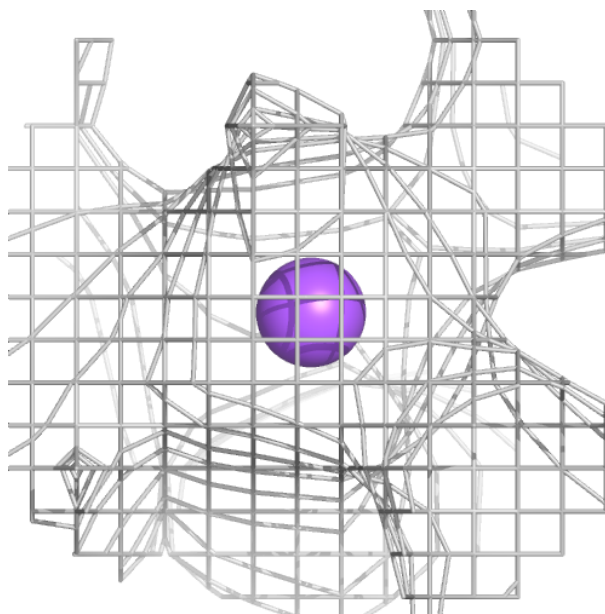
Electron density around NA B 311:

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



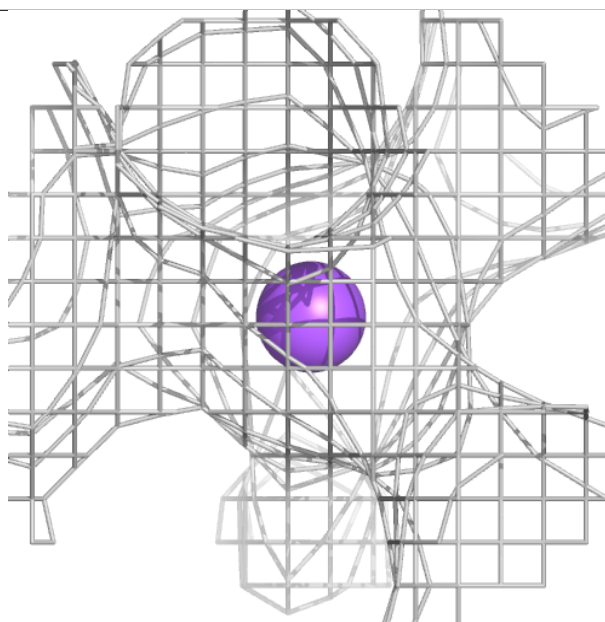
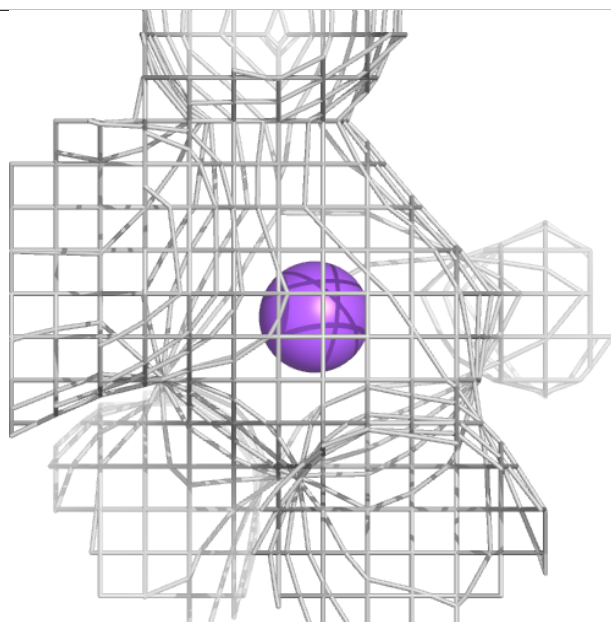
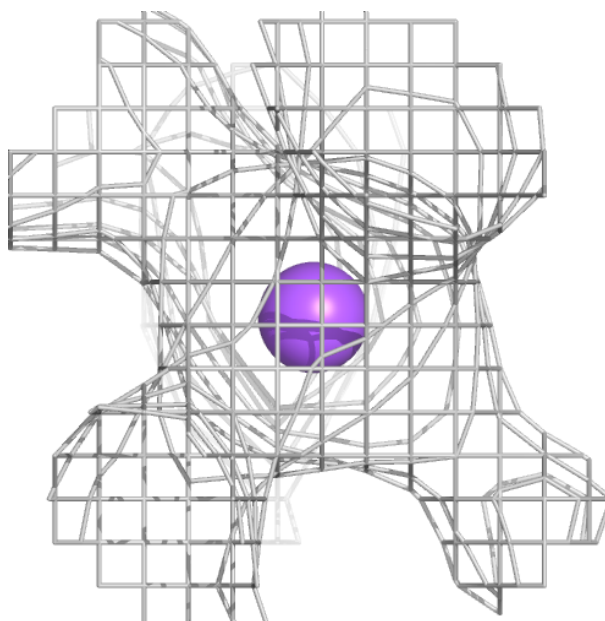
Electron density around NA E 314:

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



Electron density around NA D 415:

$2mF_o-DF_c$ (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.