



wwPDB EM Validation Summary Report ⓘ

Oct 31, 2023 – 02:31 PM JST

PDB ID : 8J0D
EMDB ID : EMD-35899
Title : FCP heterodimer, Lhca2, and Lhcf5 together as the M1 side binds to the PSII core in the diatom *Thalassiosira pseudonana*
Authors : Li, Z.; Feng, Y.; Wang, W.; Shen, J.R.
Deposited on : 2023-04-10
Resolution : 3.19 Å(reported)

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

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev70
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

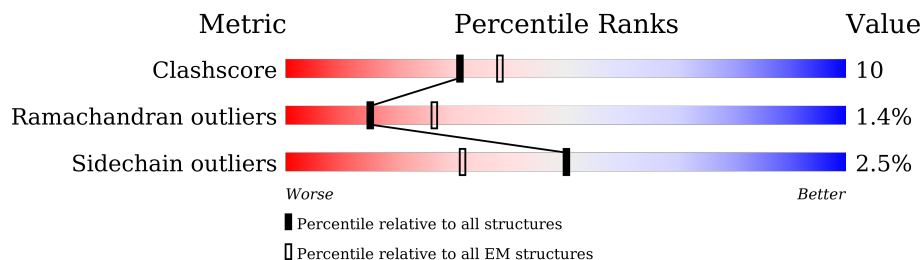
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.19 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)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	3	220	
2	4	163	
3	5	160	
4	6	168	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	CLA	3	601	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	CLA	3	602	X	-	-	-
5	CLA	3	603	X	-	-	-
5	CLA	3	604	X	-	-	-
5	CLA	3	605	X	-	-	-
5	CLA	3	606	X	-	-	-
5	CLA	3	607	X	-	-	-
5	CLA	3	608	X	-	-	-
5	CLA	3	610	X	-	-	-
5	CLA	3	611	X	-	-	-
5	CLA	3	612	X	-	-	-
5	CLA	3	619	X	-	-	-
5	CLA	4	305	X	-	-	-
5	CLA	4	306	X	-	-	-
5	CLA	4	308	X	-	-	-
5	CLA	4	309	X	-	-	-
5	CLA	4	310	X	-	-	-
5	CLA	4	311	X	-	-	-
5	CLA	4	312	X	-	-	-
5	CLA	4	313	X	-	-	-
5	CLA	4	314	X	-	-	-
5	CLA	4	315	X	-	-	-
5	CLA	4	316	X	-	-	-
5	CLA	5	308	X	-	-	-
5	CLA	5	309	X	-	-	-
5	CLA	5	311	X	-	-	-
5	CLA	5	312	X	-	-	-
5	CLA	5	313	X	-	-	-
5	CLA	5	314	X	-	X	-
5	CLA	5	316	X	-	-	-
5	CLA	5	317	X	-	-	-
5	CLA	6	306	X	-	-	-
5	CLA	6	307	X	-	-	-
5	CLA	6	309	X	-	-	-
5	CLA	6	310	X	-	-	-
5	CLA	6	311	X	-	-	-
5	CLA	6	312	X	-	-	-
5	CLA	6	314	X	-	-	-
5	CLA	6	315	X	-	-	-

2 Entry composition [i](#)

There are 13 unique types of molecules in this entry. The entry contains 9105 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Fucoxanthin chl a/c protein, lhca clade.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	3	220	1710	1110	281	315	4	0	0

- Molecule 2 is a protein called Fucoxanthin-chlorophyll a-c binding protein, plastid.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	4	163	1249	809	204	232	4	0	0

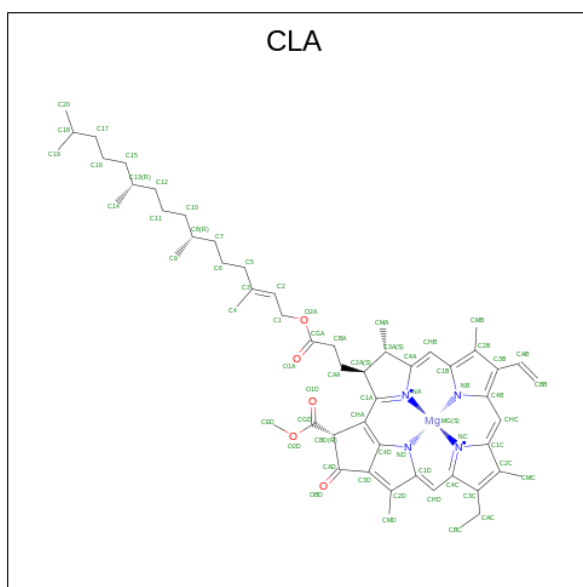
- Molecule 3 is a protein called Fucoxanthin chlorophyll a/c protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	5	160	1229	780	217	227	5	0	0

- Molecule 4 is a protein called Fucoxanthin chlorophyll a/c protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	6	168	1296	833	219	238	6	0	0

- Molecule 5 is CHLOROPHYLL A (three-letter code: CLA) (formula: C₅₅H₇₂MgN₄O₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	Mg	N		O
5	3	1	65	55	1	4	5	0
5	3	1	65	55	1	4	5	0
5	3	1	65	55	1	4	5	0
5	3	1	48	38	1	4	5	0
5	3	1	65	55	1	4	5	0
5	3	1	65	55	1	4	5	0
5	3	1	65	55	1	4	5	0
5	3	1	51	41	1	4	5	0
5	3	1	41	33	1	4	3	0
5	3	1	56	46	1	4	5	0
5	3	1	61	51	1	4	5	0
5	3	1	55	45	1	4	5	0
5	4	1	55	45	1	4	5	0
5	4	1	65	55	1	4	5	0

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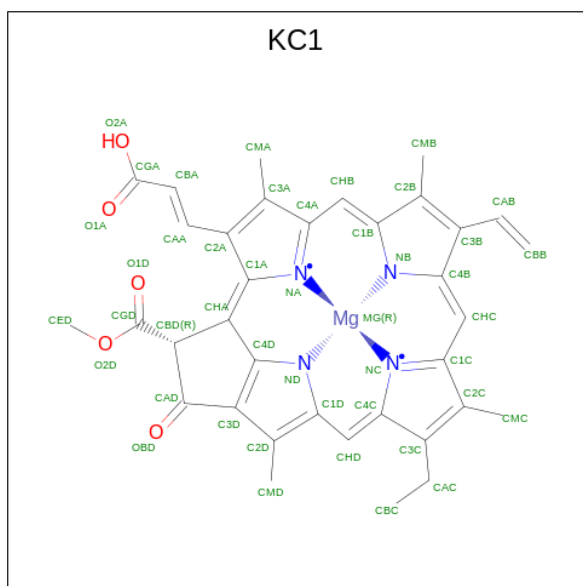
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
5	4	1	Total 65	C 55	Mg 1	N 4	O 5	0
5	4	1	Total 65	C 55	Mg 1	N 4	O 5	0
5	4	1	Total 46	C 36	Mg 1	N 4	O 5	0
5	4	1	Total 60	C 50	Mg 1	N 4	O 5	0
5	4	1	Total 51	C 41	Mg 1	N 4	O 5	0
5	4	1	Total 41	C 33	Mg 1	N 4	O 3	0
5	4	1	Total 56	C 46	Mg 1	N 4	O 5	0
5	4	1	Total 47	C 37	Mg 1	N 4	O 5	0
5	4	1	Total 52	C 42	Mg 1	N 4	O 5	0
5	5	1	Total 46	C 36	Mg 1	N 4	O 5	0
5	5	1	Total 55	C 45	Mg 1	N 4	O 5	0
5	5	1	Total 55	C 45	Mg 1	N 4	O 5	0
5	5	1	Total 46	C 36	Mg 1	N 4	O 5	0
5	5	1	Total 65	C 55	Mg 1	N 4	O 5	0
5	5	1	Total 55	C 45	Mg 1	N 4	O 5	0
5	5	1	Total 41	C 33	Mg 1	N 4	O 3	0
5	5	1	Total 38	C 32	Mg 1	N 4	O 1	0
5	6	1	Total 53	C 43	Mg 1	N 4	O 5	0
5	6	1	Total 54	C 44	Mg 1	N 4	O 5	0
5	6	1	Total 52	C 42	Mg 1	N 4	O 5	0
5	6	1	Total 46	C 36	Mg 1	N 4	O 5	0

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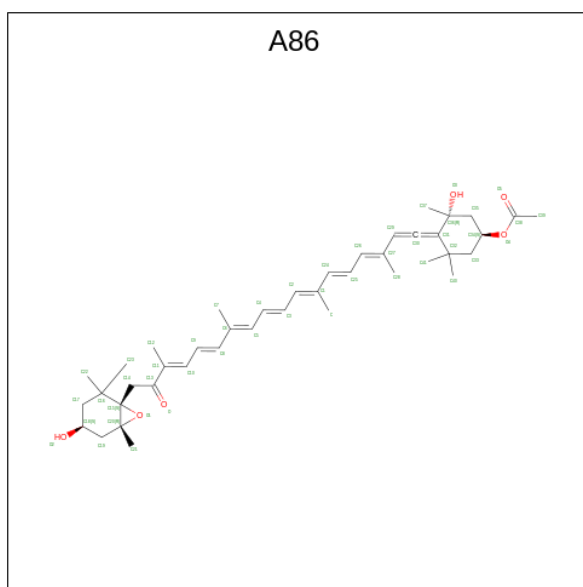
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
5	6	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
5	6	1	Total	C	Mg	N	O	0
			46	36	1	4	5	
5	6	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
5	6	1	Total	C	Mg	N	O	0
			39	30	1	4	4	

- Molecule 6 is Chlorophyll c1 (three-letter code: KC1) (formula: $C_{35}H_{30}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
6	3	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
6	5	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
6	6	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

- Molecule 7 is (3S,3'S,5R,5'R,6S,6'R,8'R)-3,5'-dihydroxy-8-oxo-6',7'-didehydro-5,5',6,6',7,8-hexahydro-5,6-epoxy-beta,beta-caroten-3'-yl acetate (three-letter code: A86) (formula: $C_{42}H_{58}O_6$) (labeled as "Ligand of Interest" by depositor).



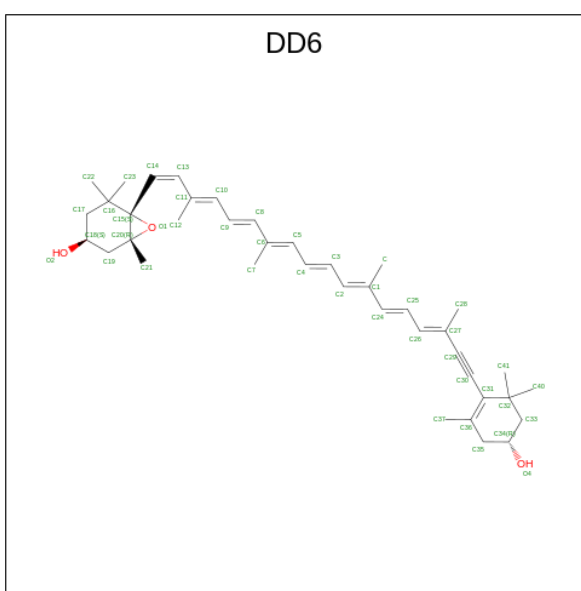
Mol	Chain	Residues	Atoms			AltConf
7	3	1	Total	C	O	0
			48	42	6	
7	4	1	Total	C	O	0
			48	42	6	
7	4	1	Total	C	O	0
			48	42	6	
7	4	1	Total	C	O	0
			48	42	6	
7	5	1	Total	C	O	0
			48	42	6	
7	5	1	Total	C	O	0
			48	42	6	
7	5	1	Total	C	O	0
			48	42	6	
7	5	1	Total	C	O	0
			47	41	6	
7	5	1	Total	C	O	0
			48	42	6	
7	5	1	Total	C	O	0
			48	42	6	
7	5	1	Total	C	O	0
			48	42	6	
7	6	1	Total	C	O	0
			48	42	6	
7	6	1	Total	C	O	0
			48	42	6	

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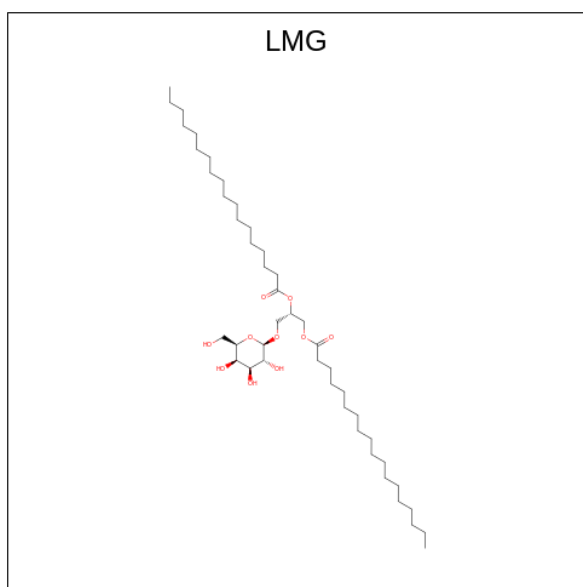
Mol	Chain	Residues	Atoms			AltConf
7	6	1	Total	C	O	0
			48	42	6	
7	6	1	Total	C	O	0
			48	42	6	
7	6	1	Total	C	O	0
			48	42	6	

- Molecule 8 is (3S,3'R,5R,6S,7cis)-7',8'-didehydro-5,6-dihydro-5,6-epoxy-beta,beta-carotene -3,3'-diol (three-letter code: DD6) (formula: C₄₀H₅₄O₃) (labeled as "Ligand of Interest" by depositor).



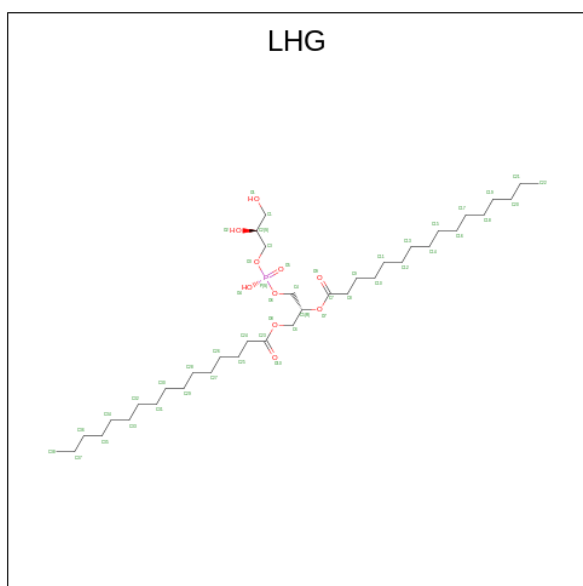
Mol	Chain	Residues	Atoms			AltConf
8	3	1	Total	C	O	0
			43	40	3	
8	4	1	Total	C	O	0
			43	40	3	

- Molecule 9 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C₄₅H₈₆O₁₀) (labeled as "Ligand of Interest" by depositor).



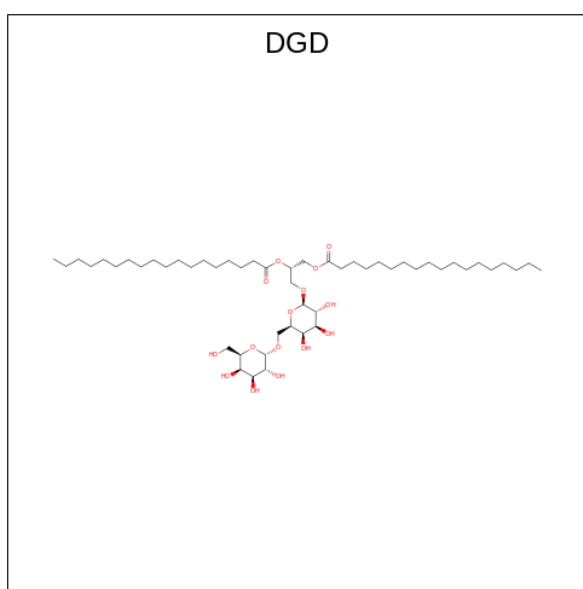
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
9	3	1	31	21	10	0
9	3	1	23	13	10	0
9	5	1	31	21	10	0

- Molecule 10 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: $C_{38}H_{75}O_{10}P$) (labeled as "Ligand of Interest" by depositor).



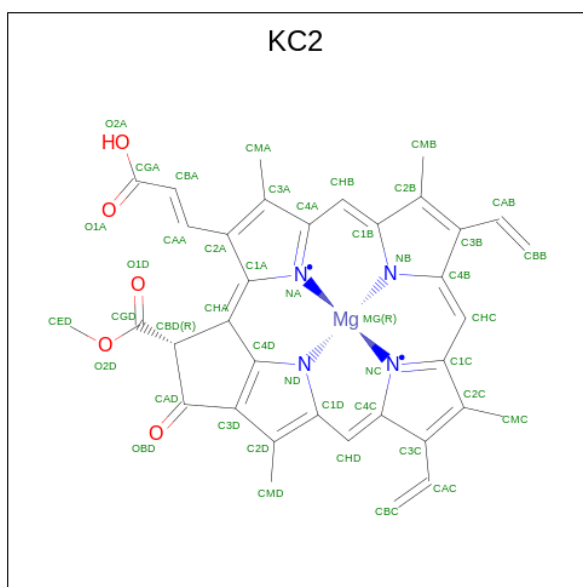
Mol	Chain	Residues	Atoms				AltConf
10	3	1	Total	C	O	P	0
			27	16	10	1	
10	3	1	Total	C	O	P	0
			49	38	10	1	
10	4	1	Total	C	O	P	0
			49	38	10	1	
10	5	1	Total	C	O	P	0
			33	24	8	1	

- Molecule 11 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula: $C_{51}H_{96}O_{15}$) (labeled as "Ligand of Interest" by depositor).



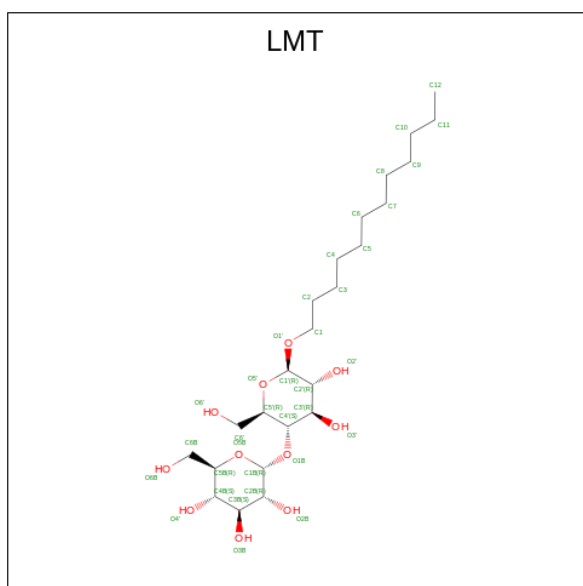
Mol	Chain	Residues	Atoms			AltConf
11	3	1	Total	C	O	0
			39	34	5	

- Molecule 12 is Chlorophyll c2 (three-letter code: KC2) (formula: $C_{35}H_{28}MgN_4O_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf	
12	4	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	5	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
12	6	1	Total	C	Mg	N	O	0
			45	35	1	4	5	

- Molecule 13 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$) (labeled as "Ligand of Interest" by depositor).

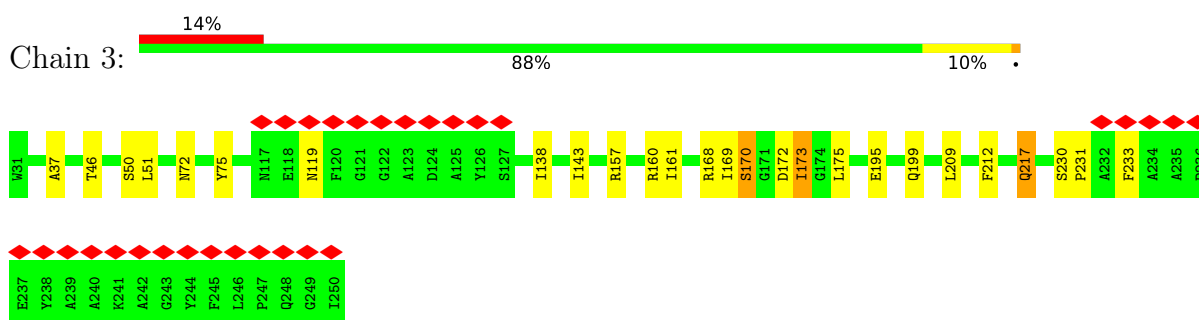


Mol	Chain	Residues	Atoms			AltConf
13	4	1	Total	C	O	0
			35	24	11	
13	5	1	Total	C	O	0
			31	20	11	

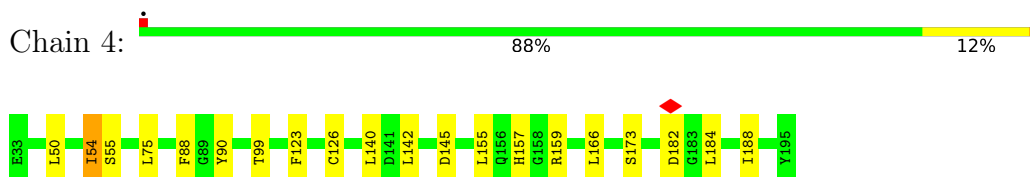
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

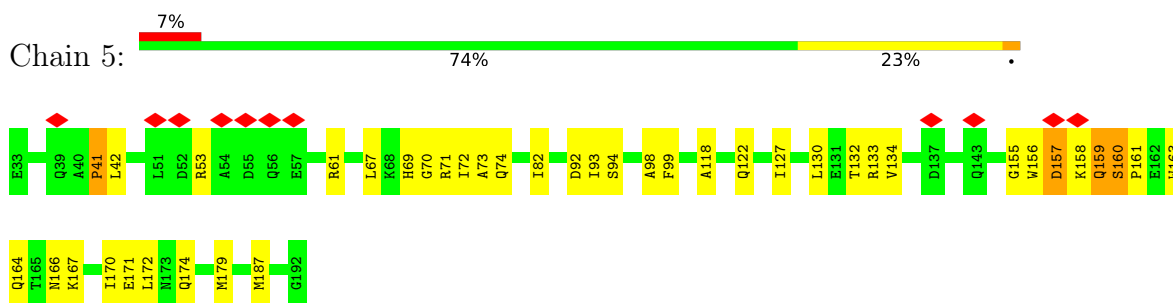
- Molecule 1: Fucoxanthin chl a/c protein, lhca clade



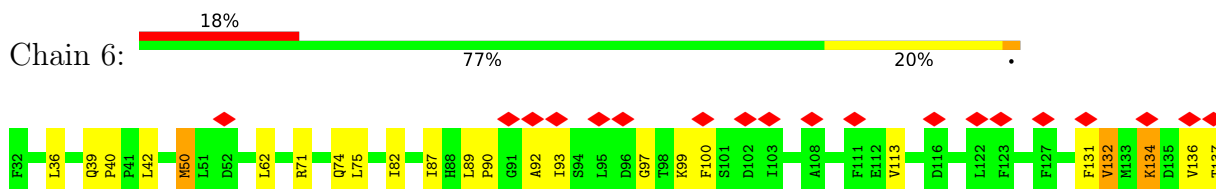
- Molecule 2: Fucoxanthin-chlorophyll a-c binding protein, plastid

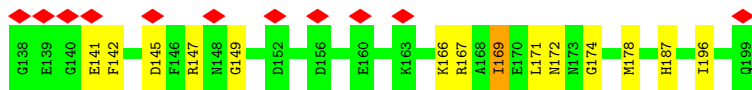


- Molecule 3: Fucoxanthin chlorophyll a/c protein 6



- Molecule 4: Fucoxanthin chlorophyll a/c protein 5





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	97098	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.598	Depositor
Minimum map value	-0.249	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.009	Depositor
Recommended contour level	0.12	Depositor
Map size (Å)	440.0, 440.0, 440.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.88, 0.88, 0.88	Depositor

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: KC2, DGD, A86, LHG, LMT, CLA, DD6, LMG, KC1

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	3	0.31	0/1765	0.47	0/2405
2	4	0.31	0/1282	0.47	0/1746
3	5	0.29	0/1255	0.54	1/1696 (0.1%)
4	6	0.29	0/1324	0.48	0/1780
All	All	0.30	0/5626	0.49	1/7627 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5	41	PRO	N-CA-CB	6.68	111.32	103.30

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	3	1710	0	1624	17	0
2	4	1249	0	1219	15	0
3	5	1229	0	1184	48	0
4	6	1296	0	1268	30	0
5	3	702	0	698	28	0
5	4	603	0	556	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	5	401	0	340	36	0
5	6	396	0	328	16	0
6	3	45	0	0	0	0
6	5	45	0	0	0	0
6	6	45	0	0	3	0
7	3	48	0	0	1	0
7	4	144	0	0	0	0
7	5	383	0	0	5	0
7	6	240	0	0	2	0
8	3	43	0	0	0	0
8	4	43	0	0	0	0
9	3	54	0	48	1	0
9	5	31	0	32	1	0
10	3	76	0	98	3	0
10	4	49	0	74	2	0
10	5	33	0	42	0	0
11	3	39	0	62	1	0
12	4	45	0	0	0	0
12	5	45	0	0	3	0
12	6	45	0	0	1	0
13	4	35	0	45	0	0
13	5	31	0	34	0	0
All	All	9105	0	7652	163	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 10.

The worst 5 of 163 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)
3:5:156:TRP:CE3	5:5:314:CLA:HBA1	1.79	1.16
3:5:156:TRP:HE3	5:5:314:CLA:HBA1	1.06	1.13
3:5:167:LYS:CD	5:5:314:CLA:HMA3	1.82	1.07
3:5:167:LYS:CE	5:5:314:CLA:HMA3	1.91	1.00
3:5:156:TRP:HE3	5:5:314:CLA:CBA	1.78	0.95

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 PDB entries followed by that with respect to all EM entries.

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	3	218/220 (99%)	196 (90%)	19 (9%)	3 (1%)	11	46
2	4	161/163 (99%)	143 (89%)	16 (10%)	2 (1%)	13	49
3	5	158/160 (99%)	141 (89%)	14 (9%)	3 (2%)	8	39
4	6	166/168 (99%)	148 (89%)	16 (10%)	2 (1%)	13	49
All	All	703/711 (99%)	628 (89%)	65 (9%)	10 (1%)	15	46

5 of 10 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	3	173	ILE
3	5	41	PRO
2	4	54	ILE
3	5	157	ASP
4	6	196	ILE

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 PDB entries followed by that with respect to all EM entries.

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	3	171/171 (100%)	168 (98%)	3 (2%)	59	82
2	4	128/129 (99%)	127 (99%)	1 (1%)	81	93
3	5	120/123 (98%)	116 (97%)	4 (3%)	38	71
4	6	131/131 (100%)	125 (95%)	6 (5%)	27	63
All	All	550/554 (99%)	536 (98%)	14 (2%)	50	77

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	5	172	LEU
4	6	42	LEU
4	6	171	LEU
4	6	136	VAL
4	6	169	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
3	5	173	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

74 ligands 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	$\# Z > 2$
8	DD6	4	303	-	39,45,45	2.02	3 (7%)	52,67,67	2.77	15 (28%)
5	CLA	5	311	-	55,63,73	1.58	5 (9%)	64,101,113	1.48	6 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	KC1	5	315	-	48,53,53	1.52	7 (14%)	55,89,89	1.79	11 (20%)
5	CLA	6	307	4	54,62,73	1.60	7 (12%)	62,99,113	1.49	7 (11%)
5	CLA	3	605	-	65,73,73	1.48	6 (9%)	76,113,113	1.35	8 (10%)
7	A86	5	321	-	44,50,50	1.25	4 (9%)	51,76,76	9.10	23 (45%)
5	CLA	6	311	4	65,73,73	1.49	6 (9%)	76,113,113	1.33	6 (7%)
7	A86	5	301	-	44,50,50	1.24	4 (9%)	51,76,76	11.32	26 (50%)
5	CLA	5	313	-	65,73,73	1.46	6 (9%)	76,113,113	1.40	6 (7%)
12	KC2	6	308	-	48,53,53	1.90	9 (18%)	54,89,89	2.19	17 (31%)
5	CLA	3	619	-	55,63,73	1.57	7 (12%)	64,101,113	1.49	7 (10%)
5	CLA	3	603	-	65,73,73	1.48	7 (10%)	76,113,113	1.36	7 (9%)
5	CLA	4	313	2	41,49,73	1.80	6 (14%)	47,84,113	1.70	9 (19%)
12	KC2	4	307	-	48,53,53	1.84	9 (18%)	54,89,89	2.32	15 (27%)
5	CLA	3	607	1	65,73,73	1.45	7 (10%)	76,113,113	1.42	8 (10%)
5	CLA	4	316	-	52,60,73	1.64	7 (13%)	60,97,113	1.52	7 (11%)
7	A86	5	303	-	44,50,50	1.23	3 (6%)	51,76,76	11.73	23 (45%)
5	CLA	4	315	-	47,55,73	1.71	7 (14%)	54,91,113	1.56	7 (12%)
5	CLA	4	308	-	65,73,73	1.45	7 (10%)	76,113,113	1.41	7 (9%)
5	CLA	5	317	-	37,46,73	1.89	6 (16%)	44,80,113	1.77	8 (18%)
6	KC1	3	609	-	48,53,53	1.54	7 (14%)	55,89,89	1.89	9 (16%)
5	CLA	3	606	1	65,73,73	1.49	7 (10%)	76,113,113	1.33	7 (9%)
7	A86	4	302	-	44,50,50	1.24	4 (9%)	51,76,76	12.51	28 (54%)
7	A86	5	305	-	43,49,50	1.42	5 (11%)	48,74,76	7.05	25 (52%)
5	CLA	3	611	-	56,64,73	1.62	7 (12%)	65,102,113	1.47	8 (12%)
5	CLA	4	314	2	56,64,73	1.55	6 (10%)	65,102,113	1.49	8 (12%)
5	CLA	5	316	-	41,49,73	1.84	6 (14%)	47,84,113	1.66	9 (19%)
5	CLA	5	312	3	46,54,73	1.76	7 (15%)	53,90,113	1.53	7 (13%)
11	DGD	3	620	-	38,38,67	0.65	1 (2%)	40,40,81	1.48	6 (15%)
5	CLA	3	601	-	65,73,73	1.45	7 (10%)	76,113,113	1.42	8 (10%)
5	CLA	6	306	-	53,61,73	1.62	7 (13%)	61,98,113	1.52	7 (11%)
6	KC1	6	313	4	48,53,53	1.53	7 (14%)	55,89,89	1.84	11 (20%)
7	A86	6	303	-	44,50,50	1.24	4 (9%)	51,76,76	8.48	24 (47%)
7	A86	5	306	-	44,50,50	1.24	4 (9%)	51,76,76	7.71	25 (49%)
9	LMG	3	615	-	31,31,55	0.97	0	39,39,63	1.28	5 (12%)
7	A86	6	305	-	44,50,50	1.21	3 (6%)	51,76,76	8.91	23 (45%)
5	CLA	5	309	3	55,63,73	1.59	7 (12%)	64,101,113	1.52	9 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
9	LMG	3	616	-	23,23,55	1.25	3 (13%)	31,31,63	1.31	5 (16%)
10	LHG	3	618	-	48,48,48	0.61	1 (2%)	51,54,54	1.26	6 (11%)
12	KC2	5	310	-	48,53,53	1.85	10 (20%)	54,89,89	2.32	16 (29%)
5	CLA	5	308	-	46,54,73	1.73	6 (13%)	53,90,113	1.56	6 (11%)
5	CLA	6	315	-	38,46,73	2.38	8 (21%)	47,79,113	1.60	9 (19%)
5	CLA	3	612	-	61,69,73	1.50	6 (9%)	71,108,113	1.40	7 (9%)
7	A86	4	301	-	44,50,50	1.25	4 (9%)	51,76,76	9.56	27 (52%)
5	CLA	6	309	-	52,60,73	1.63	6 (11%)	60,97,113	1.51	8 (13%)
7	A86	5	307	-	44,50,50	1.23	4 (9%)	51,76,76	11.49	23 (45%)
5	CLA	3	608	10	51,59,73	1.66	7 (13%)	59,96,113	1.47	7 (11%)
5	CLA	6	312	-	46,54,73	1.73	6 (13%)	53,90,113	1.67	7 (13%)
10	LHG	3	617	5	26,26,48	0.85	1 (3%)	29,32,54	1.38	3 (10%)
7	A86	4	304	-	44,50,50	1.26	5 (11%)	51,76,76	11.03	27 (52%)
10	LHG	5	318	-	32,32,48	0.83	2 (6%)	36,37,54	1.70	6 (16%)
5	CLA	4	310	-	46,54,73	1.69	7 (15%)	53,90,113	1.60	6 (11%)
7	A86	3	613	-	44,50,50	1.25	3 (6%)	51,76,76	2.32	17 (33%)
13	LMT	5	320	-	32,32,36	1.23	5 (15%)	43,43,47	0.93	1 (2%)
5	CLA	4	305	-	55,63,73	1.58	7 (12%)	64,101,113	1.48	7 (10%)
5	CLA	4	306	2	65,73,73	1.45	7 (10%)	76,113,113	1.38	8 (10%)
7	A86	5	304	-	44,50,50	1.22	3 (6%)	51,76,76	11.21	23 (45%)
5	CLA	3	610	1	41,49,73	1.76	8 (19%)	47,84,113	1.75	8 (17%)
5	CLA	6	310	-	46,54,73	1.77	6 (13%)	53,90,113	1.44	7 (13%)
5	CLA	6	314	-	41,49,73	1.85	8 (19%)	47,84,113	1.84	9 (19%)
5	CLA	3	602	-	65,73,73	1.44	7 (10%)	76,113,113	1.45	9 (11%)
7	A86	6	301	-	44,50,50	1.25	5 (11%)	51,76,76	11.60	24 (47%)
5	CLA	3	604	-	48,56,73	1.69	7 (14%)	55,92,113	1.58	8 (14%)
10	LHG	4	318	-	48,48,48	0.62	1 (2%)	51,54,54	1.28	6 (11%)
8	DD6	3	614	-	39,45,45	1.99	3 (7%)	52,67,67	1.98	15 (28%)
7	A86	6	304	-	44,50,50	1.24	3 (6%)	51,76,76	11.87	21 (41%)
7	A86	5	302	-	44,50,50	1.25	5 (11%)	51,76,76	12.11	24 (47%)
7	A86	6	302	-	44,50,50	1.19	3 (6%)	51,76,76	11.15	25 (49%)
5	CLA	5	314	3	55,63,73	1.62	6 (10%)	64,101,113	1.55	7 (10%)
5	CLA	4	309	2	65,73,73	1.46	6 (9%)	76,113,113	1.39	7 (9%)
5	CLA	4	311	2	60,68,73	1.50	7 (11%)	70,107,113	1.46	8 (11%)
5	CLA	4	312	-	51,59,73	1.64	6 (11%)	59,96,113	1.61	9 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
13	LMT	4	317	-	36,36,36	1.19	6 (16%)	47,47,47	1.00	1 (2%)
9	LMG	5	319	-	31,31,55	0.96	1 (3%)	39,39,63	1.34	6 (15%)

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
8	DD6	4	303	-	-	3/26/80/80	0/3/3/3
5	CLA	5	311	-	1/1/13/20	8/25/103/115	-
6	KC1	5	315	-	-	6/15/71/71	-
5	CLA	6	307	4	1/1/12/20	5/24/102/115	-
5	CLA	3	605	-	1/1/15/20	13/37/115/115	-
7	A86	5	321	-	-	8/34/90/90	0/3/3/3
5	CLA	6	311	4	1/1/15/20	7/37/115/115	-
7	A86	5	301	-	-	11/34/90/90	0/3/3/3
5	CLA	5	313	-	1/1/15/20	11/37/115/115	-
12	KC2	6	308	-	-	10/15/71/71	-
5	CLA	3	619	-	1/1/13/20	10/25/103/115	-
5	CLA	3	603	-	1/1/15/20	10/37/115/115	-
5	CLA	4	313	2	1/1/10/20	4/8/86/115	-
12	KC2	4	307	-	-	8/15/71/71	-
5	CLA	3	607	1	1/1/15/20	15/37/115/115	-
5	CLA	4	316	-	1/1/12/20	4/22/100/115	-
7	A86	5	303	-	-	9/34/90/90	0/3/3/3
5	CLA	4	315	-	1/1/11/20	4/16/94/115	-
5	CLA	4	308	-	1/1/15/20	9/37/115/115	-
5	CLA	5	317	-	1/1/9/20	0/2/80/115	-
6	KC1	3	609	-	-	9/15/71/71	-
5	CLA	3	606	1	1/1/15/20	14/37/115/115	-
7	A86	4	302	-	-	9/34/90/90	0/3/3/3
7	A86	5	305	-	-	8/33/89/90	0/3/3/3
5	CLA	3	611	-	1/1/13/20	9/27/105/115	-
5	CLA	4	314	2	1/1/13/20	9/27/105/115	-
5	CLA	5	316	-	1/1/10/20	2/8/86/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	CLA	5	312	3	1/1/11/20	9/15/93/115	-
11	DGD	3	620	-	-	22/40/40/95	-
5	CLA	3	601	-	1/1/15/20	17/37/115/115	-
5	CLA	6	306	-	1/1/12/20	8/23/101/115	-
6	KC1	6	313	4	-	5/15/71/71	-
7	A86	6	303	-	-	8/34/90/90	0/3/3/3
7	A86	5	306	-	-	8/34/90/90	0/3/3/3
9	LMG	3	615	-	-	8/26/46/70	0/1/1/1
7	A86	6	305	-	-	8/34/90/90	0/3/3/3
5	CLA	5	309	3	1/1/13/20	6/25/103/115	-
9	LMG	3	616	-	-	6/16/36/70	0/1/1/1
10	LHG	3	618	-	-	15/53/53/53	-
12	KC2	5	310	-	-	3/15/71/71	-
5	CLA	5	308	-	1/1/11/20	7/15/93/115	-
5	CLA	6	315	-	1/1/9/20	3/8/80/115	-
5	CLA	3	612	-	1/1/14/20	16/33/111/115	-
7	A86	4	301	-	-	10/34/90/90	0/3/3/3
5	CLA	6	309	-	1/1/12/20	8/22/100/115	-
7	A86	5	307	-	-	8/34/90/90	0/3/3/3
5	CLA	3	608	10	1/1/12/20	6/21/99/115	-
5	CLA	6	312	-	1/1/11/20	6/15/93/115	-
10	LHG	3	617	5	-	13/31/31/53	-
7	A86	4	304	-	-	8/34/90/90	0/3/3/3
10	LHG	5	318	-	-	11/34/34/53	-
5	CLA	4	310	-	1/1/11/20	6/15/93/115	-
7	A86	3	613	-	-	5/34/90/90	0/3/3/3
13	LMT	5	320	-	-	8/17/57/61	0/2/2/2
5	CLA	4	305	-	1/1/13/20	7/25/103/115	-
5	CLA	4	306	2	1/1/15/20	8/37/115/115	-
7	A86	5	304	-	-	8/34/90/90	0/3/3/3
5	CLA	3	610	1	1/1/10/20	0/8/86/115	-
5	CLA	6	310	-	1/1/11/20	9/15/93/115	-
5	CLA	6	314	-	1/1/10/20	0/8/86/115	-
5	CLA	3	602	-	1/1/15/20	13/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	A86	6	301	-	-	7/34/90/90	0/3/3/3
5	CLA	3	604	-	1/1/11/20	9/17/95/115	-
10	LHG	4	318	-	-	34/53/53/53	-
8	DD6	3	614	-	-	5/26/80/80	0/3/3/3
7	A86	6	304	-	-	9/34/90/90	0/3/3/3
7	A86	5	302	-	-	9/34/90/90	0/3/3/3
7	A86	6	302	-	-	8/34/90/90	0/3/3/3
5	CLA	5	314	3	1/1/13/20	9/25/103/115	-
5	CLA	4	309	2	1/1/15/20	5/37/115/115	-
5	CLA	4	311	2	1/1/14/20	15/31/109/115	-
5	CLA	4	312	-	1/1/12/20	5/21/99/115	-
13	LMT	4	317	-	-	11/21/61/61	0/2/2/2
9	LMG	5	319	-	-	13/26/46/70	0/1/1/1

The worst 5 of 401 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	4	303	DD6	C29-C27	-8.61	1.26	1.42
5	6	315	CLA	C3B-C4B	8.56	1.49	1.39
8	3	614	DD6	C29-C27	-8.43	1.26	1.42
5	3	611	CLA	C4B-NB	7.73	1.42	1.35
5	6	310	CLA	C4B-NB	7.71	1.42	1.35

The worst 5 of 855 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	5	302	A86	C23-C16-C22	-71.42	2.02	107.37
7	6	304	A86	C23-C16-C22	-71.27	2.25	107.37
7	5	303	A86	C23-C16-C22	-70.78	2.97	107.37
7	4	302	A86	C23-C16-C22	-70.30	3.68	107.37
7	5	307	A86	C23-C16-C22	-68.89	5.75	107.37

5 of 39 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
5	3	601	CLA	ND
5	3	602	CLA	ND
5	3	603	CLA	ND
5	3	604	CLA	ND

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Mol	Chain	Res	Type	Atom
5	3	605	CLA	ND

5 of 637 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	3	601	CLA	C1A-C2A-CAA-CBA
5	3	602	CLA	CHA-CBD-CGD-O1D
5	3	602	CLA	CHA-CBD-CGD-O2D
5	3	604	CLA	CHA-CBD-CGD-O1D
5	3	604	CLA	CHA-CBD-CGD-O2D

There are no ring outliers.

46 monomers are involved in 107 short contacts:

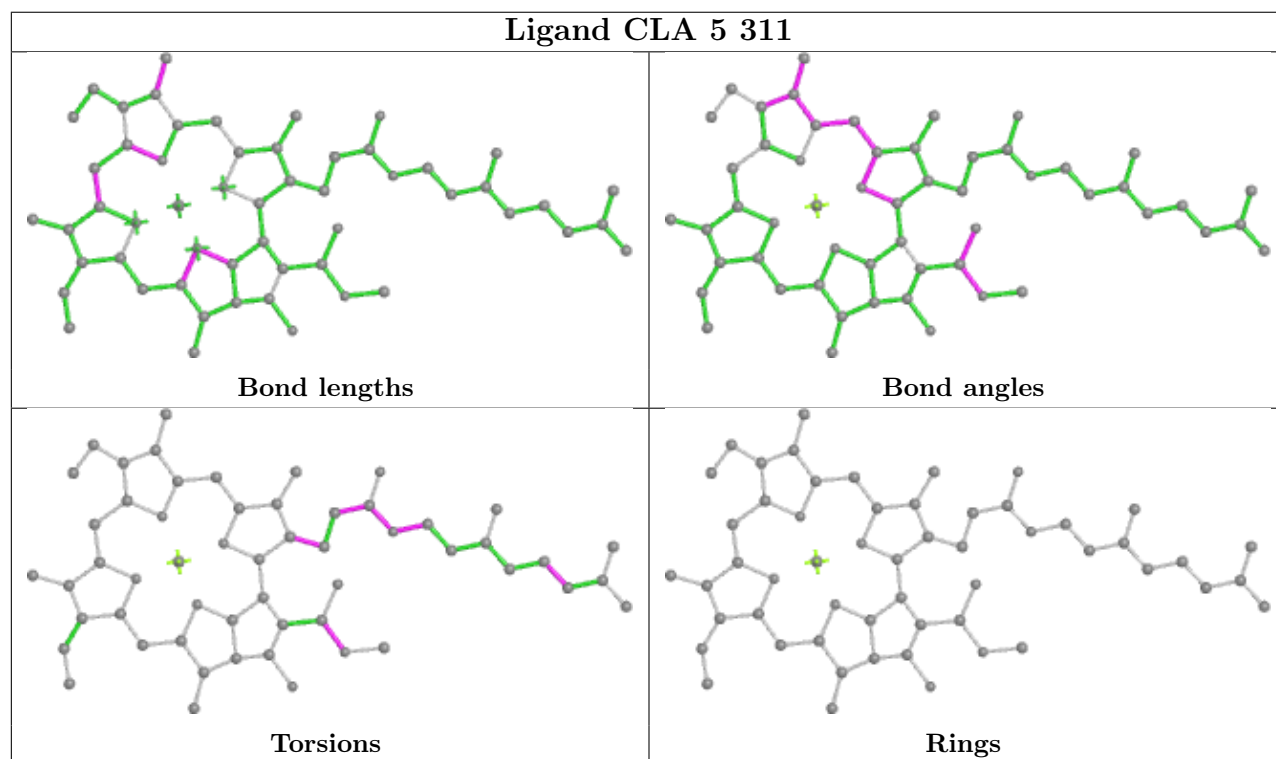
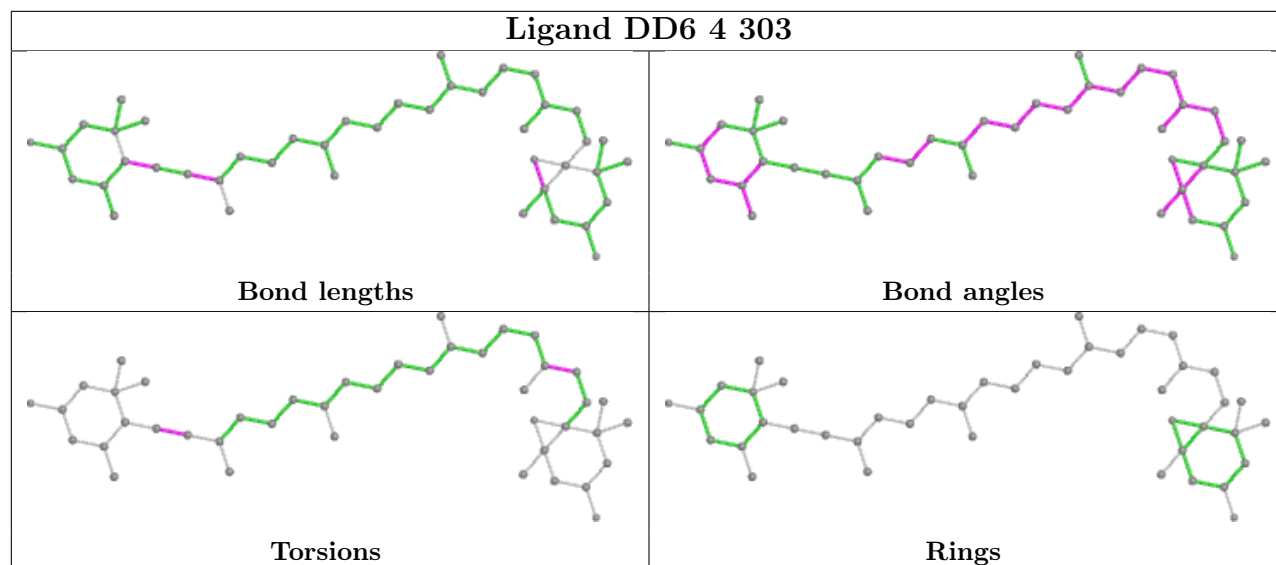
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	5	311	CLA	2	0
5	6	307	CLA	3	0
5	3	605	CLA	1	0
7	5	321	A86	1	0
5	5	313	CLA	3	0
12	6	308	KC2	1	0
5	3	619	CLA	3	0
5	3	603	CLA	4	0
5	3	607	CLA	3	0
5	4	315	CLA	2	0
5	4	308	CLA	4	0
5	3	606	CLA	6	0
5	3	611	CLA	4	0
5	4	314	CLA	4	0
5	5	316	CLA	2	0
5	5	312	CLA	2	0
11	3	620	DGD	1	0
5	3	601	CLA	1	0
5	6	306	CLA	3	0
6	6	313	KC1	3	0
7	5	306	A86	1	0
9	3	615	LMG	1	0
5	5	309	CLA	1	0
10	3	618	LHG	3	0
12	5	310	KC2	3	0
5	6	315	CLA	1	0
5	3	612	CLA	2	0

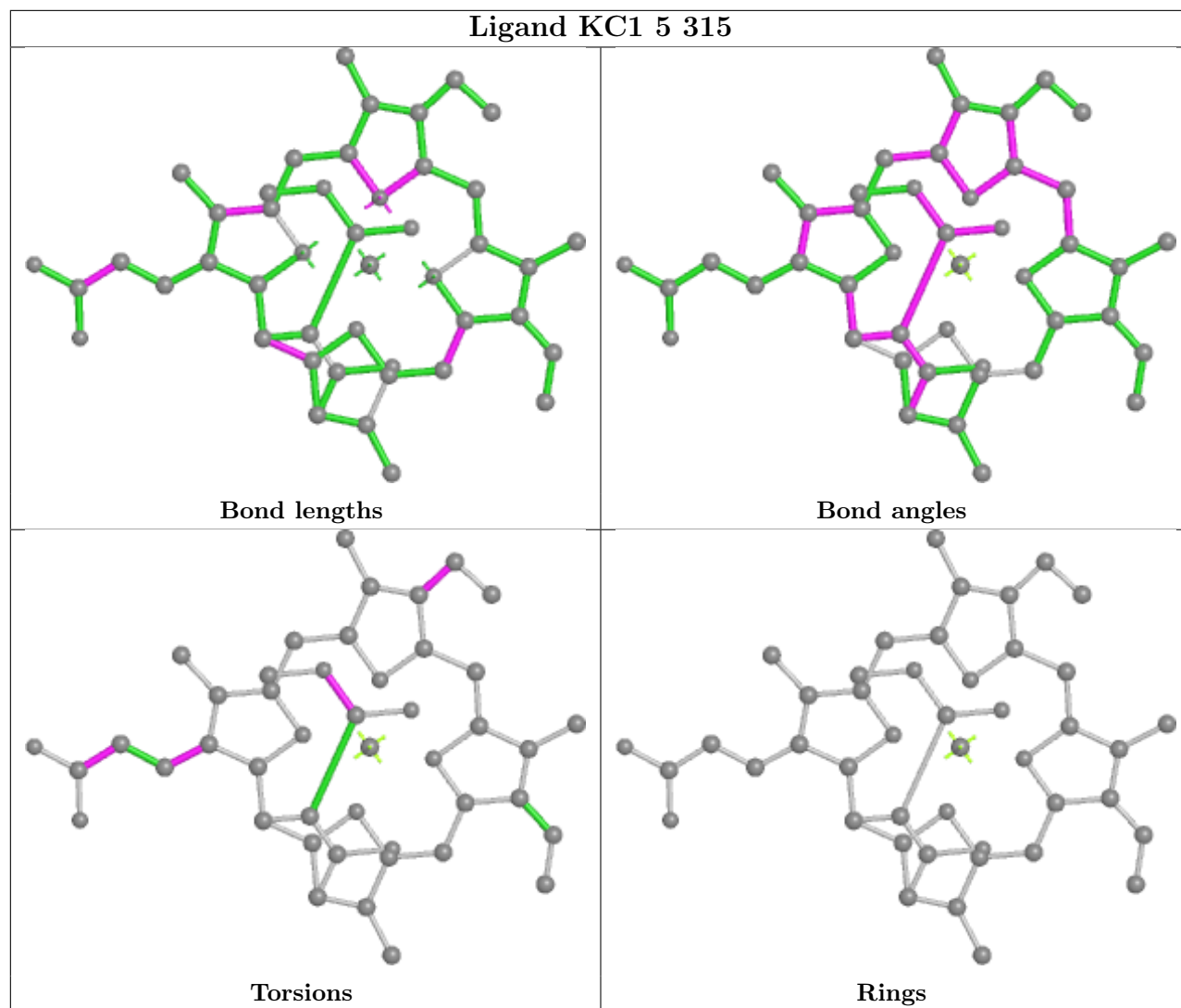
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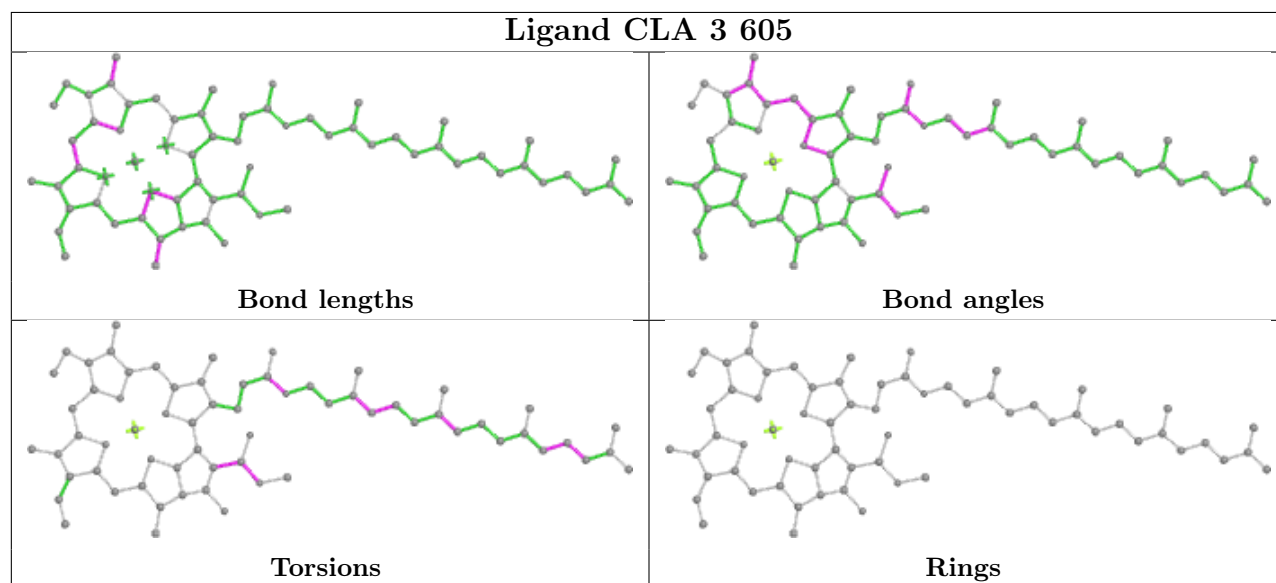
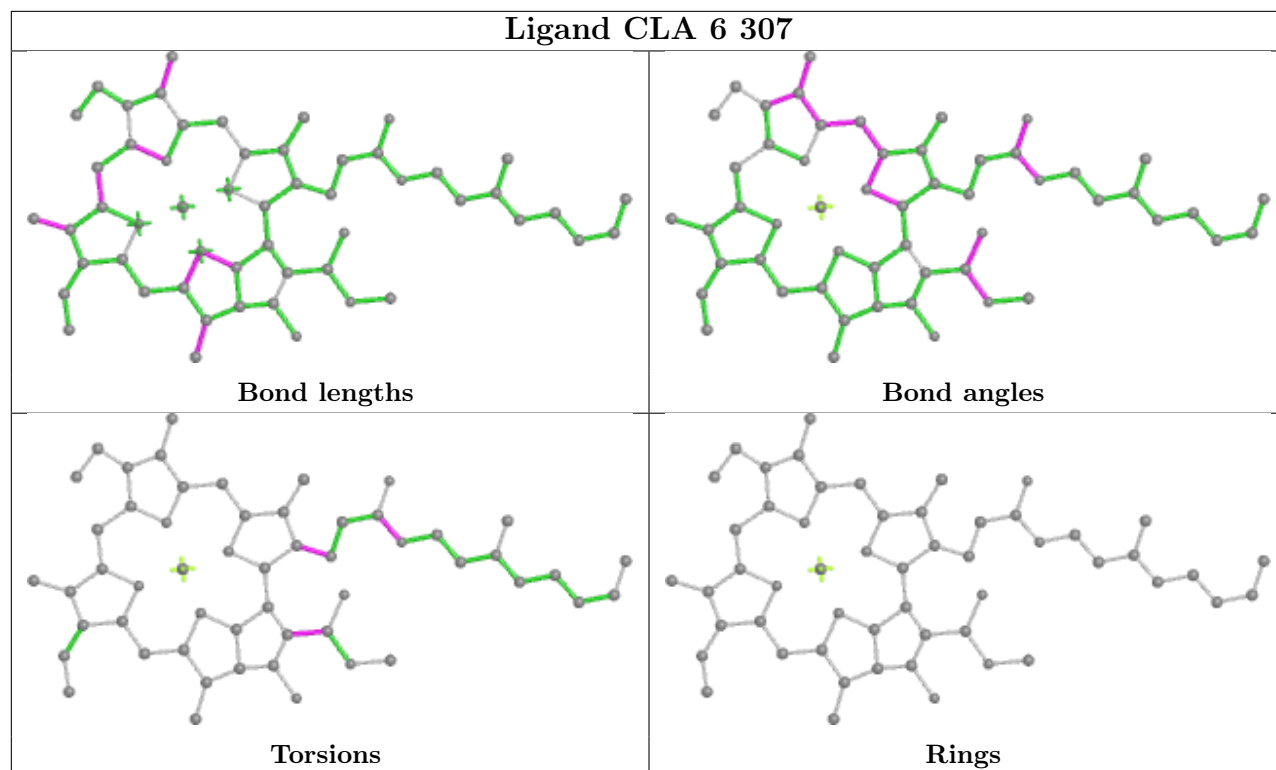
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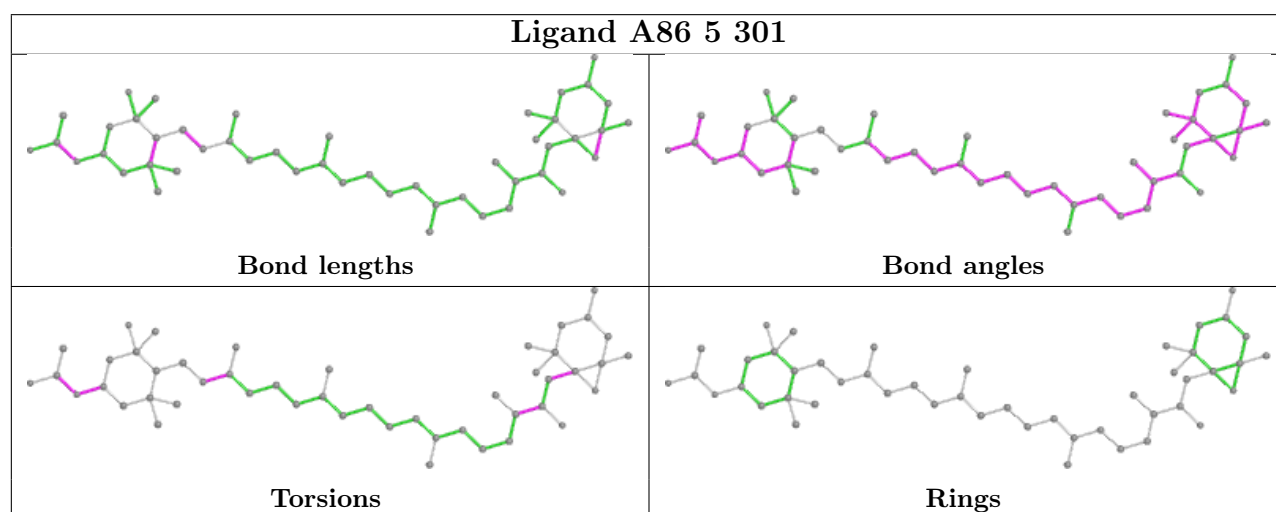
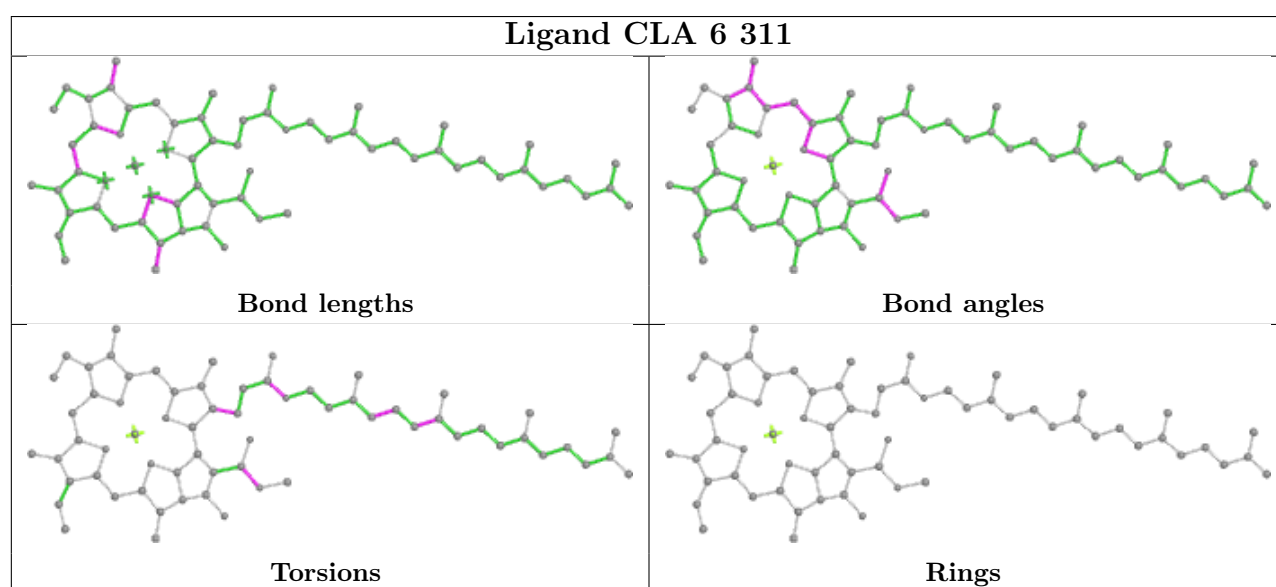
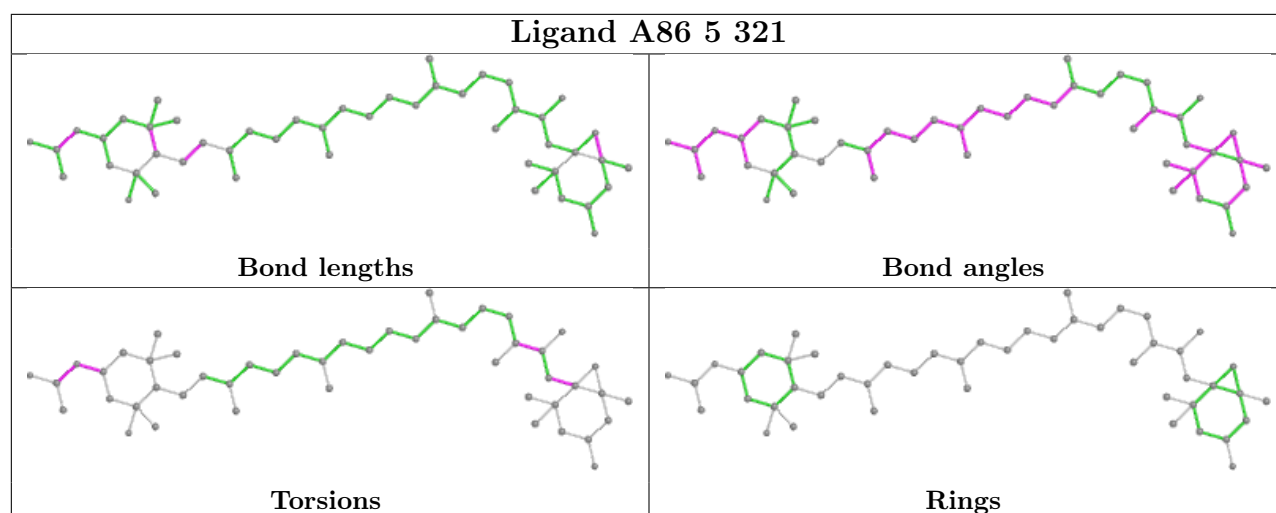
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	6	309	CLA	1	0
5	6	312	CLA	5	0
5	4	310	CLA	1	0
7	3	613	A86	1	0
5	4	306	CLA	2	0
7	5	304	A86	3	0
5	3	610	CLA	1	0
5	6	310	CLA	1	0
5	6	314	CLA	2	0
5	3	602	CLA	4	0
7	6	301	A86	1	0
5	3	604	CLA	1	0
10	4	318	LHG	2	0
7	6	302	A86	1	0
5	5	314	CLA	26	0
5	4	309	CLA	1	0
5	4	311	CLA	2	0
5	4	312	CLA	2	0
9	5	319	LMG	1	0

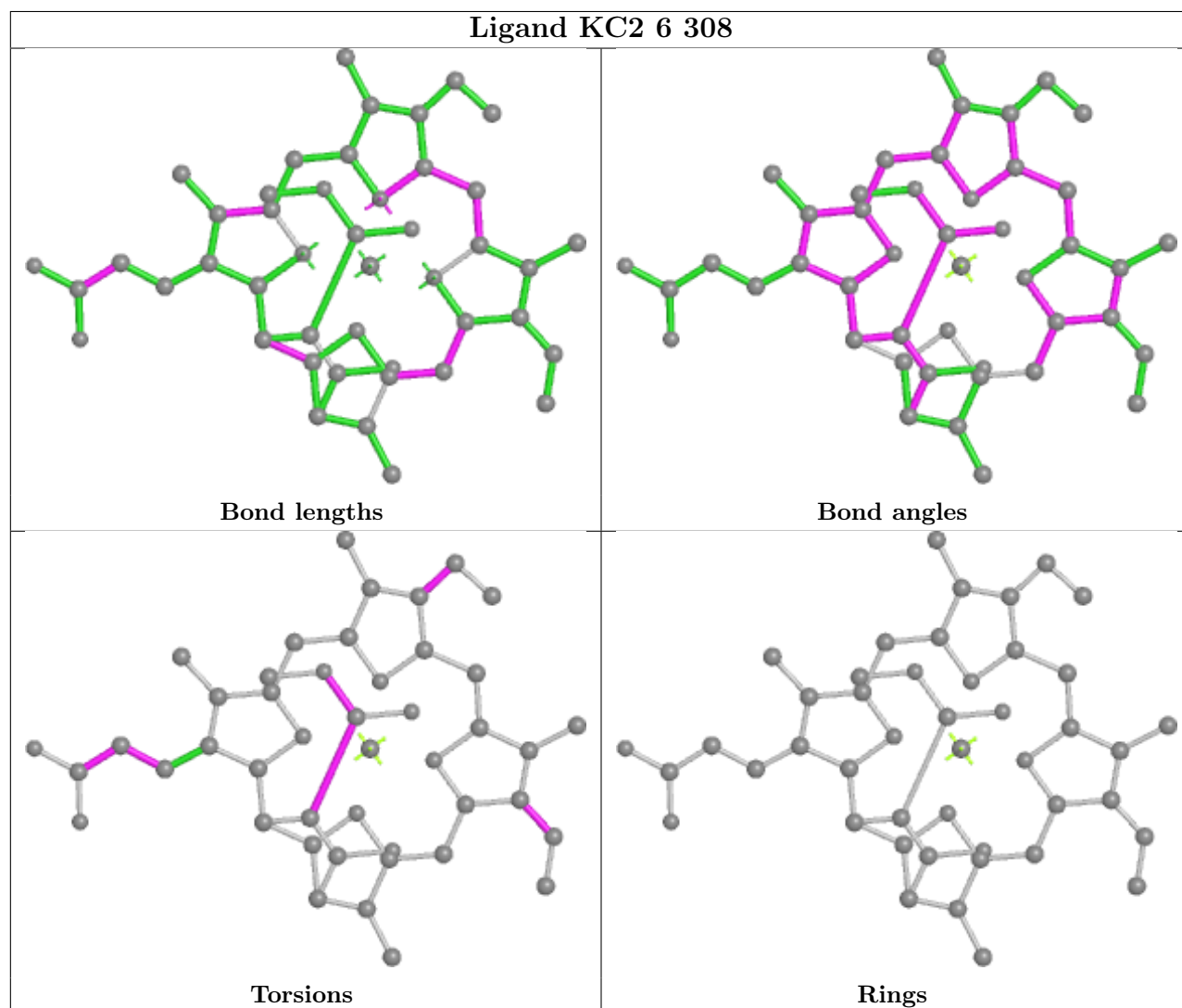
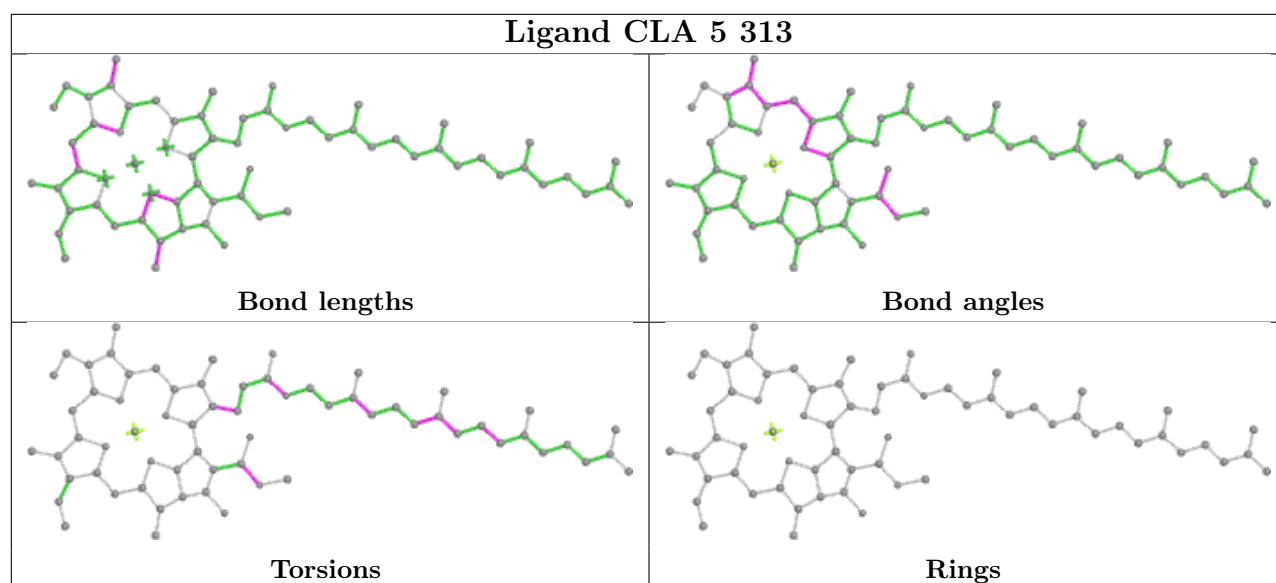
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

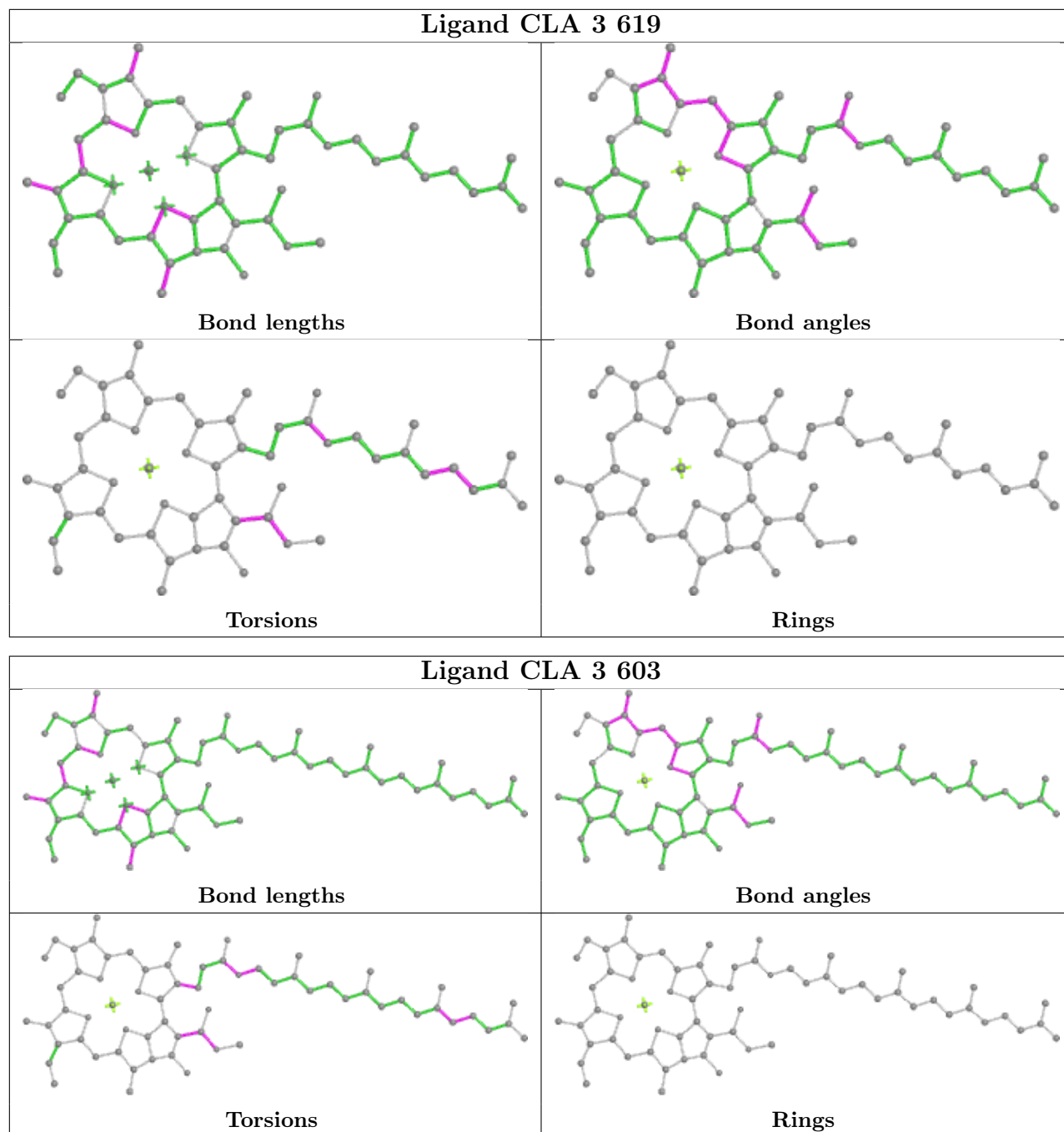


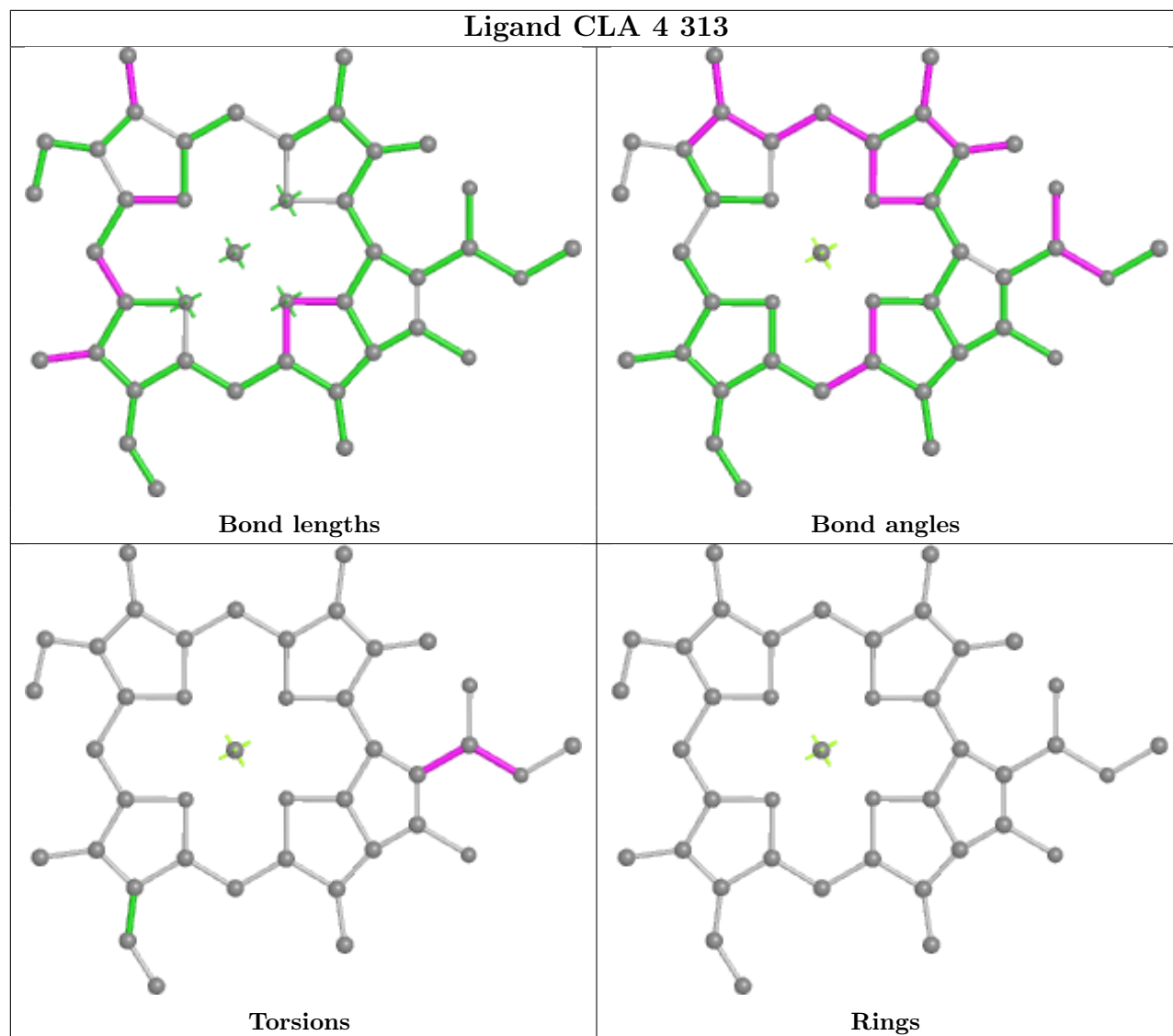


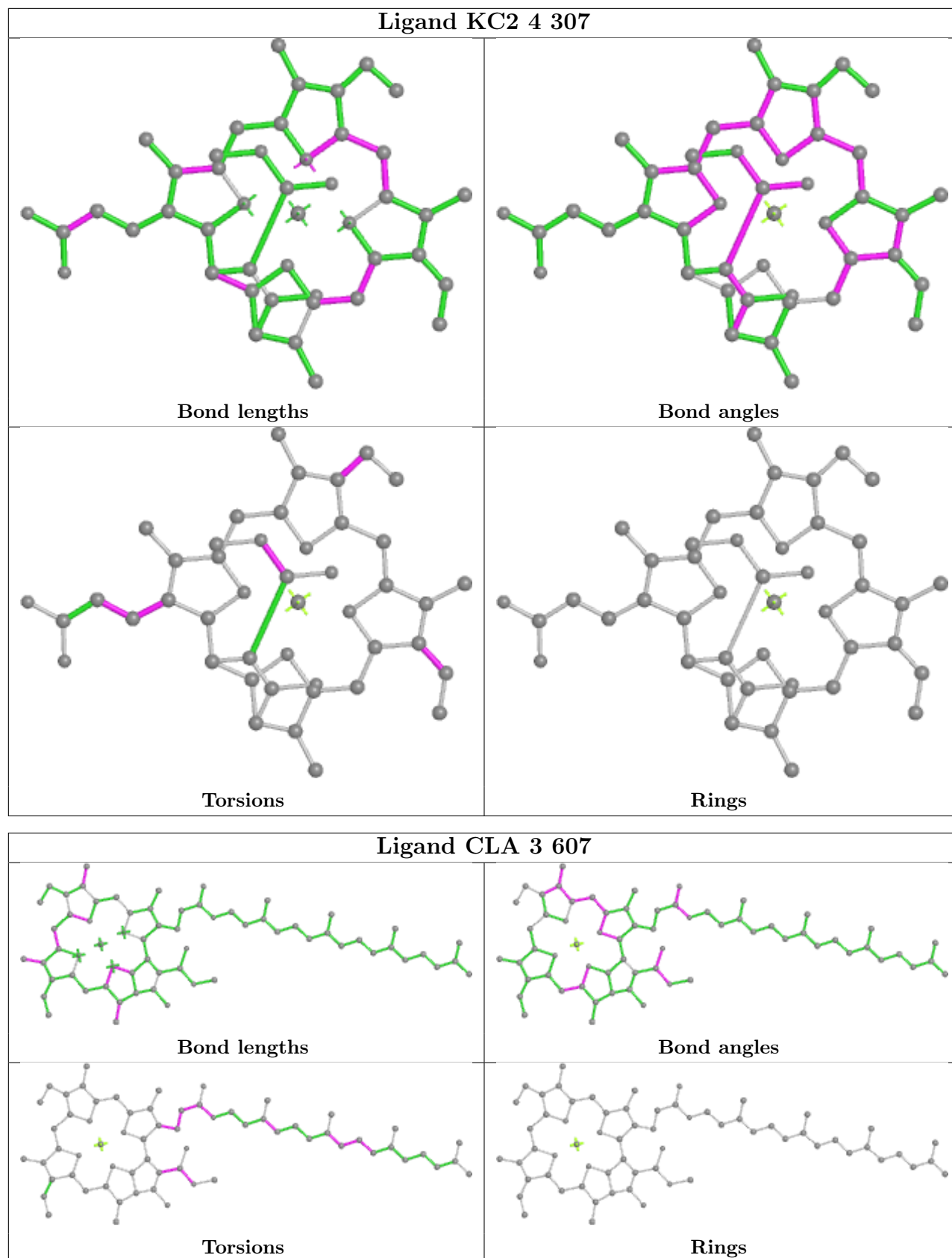


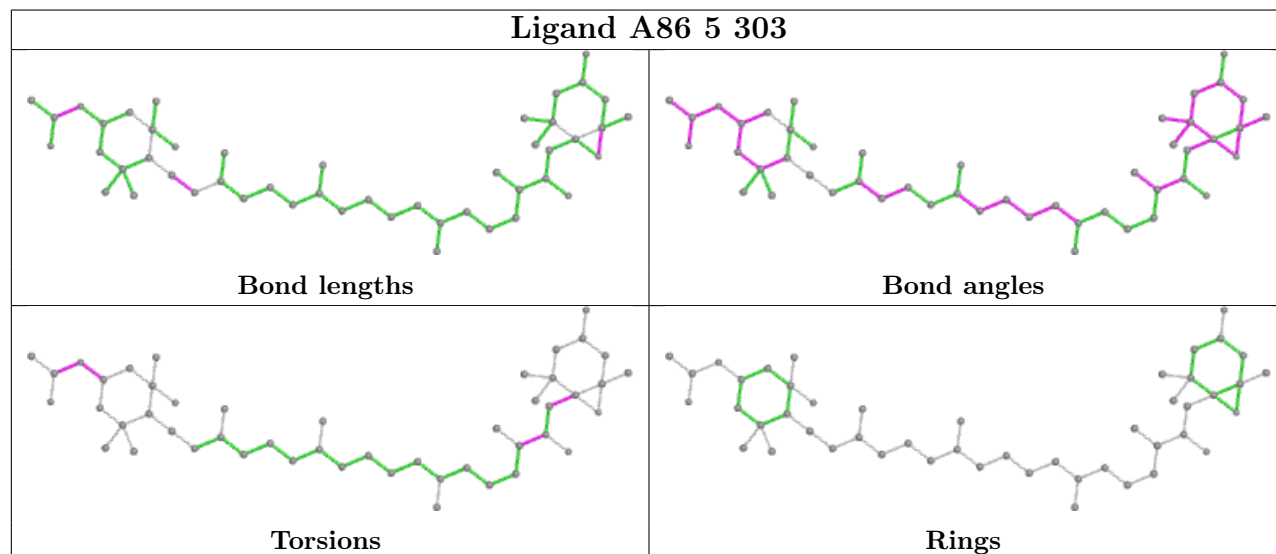
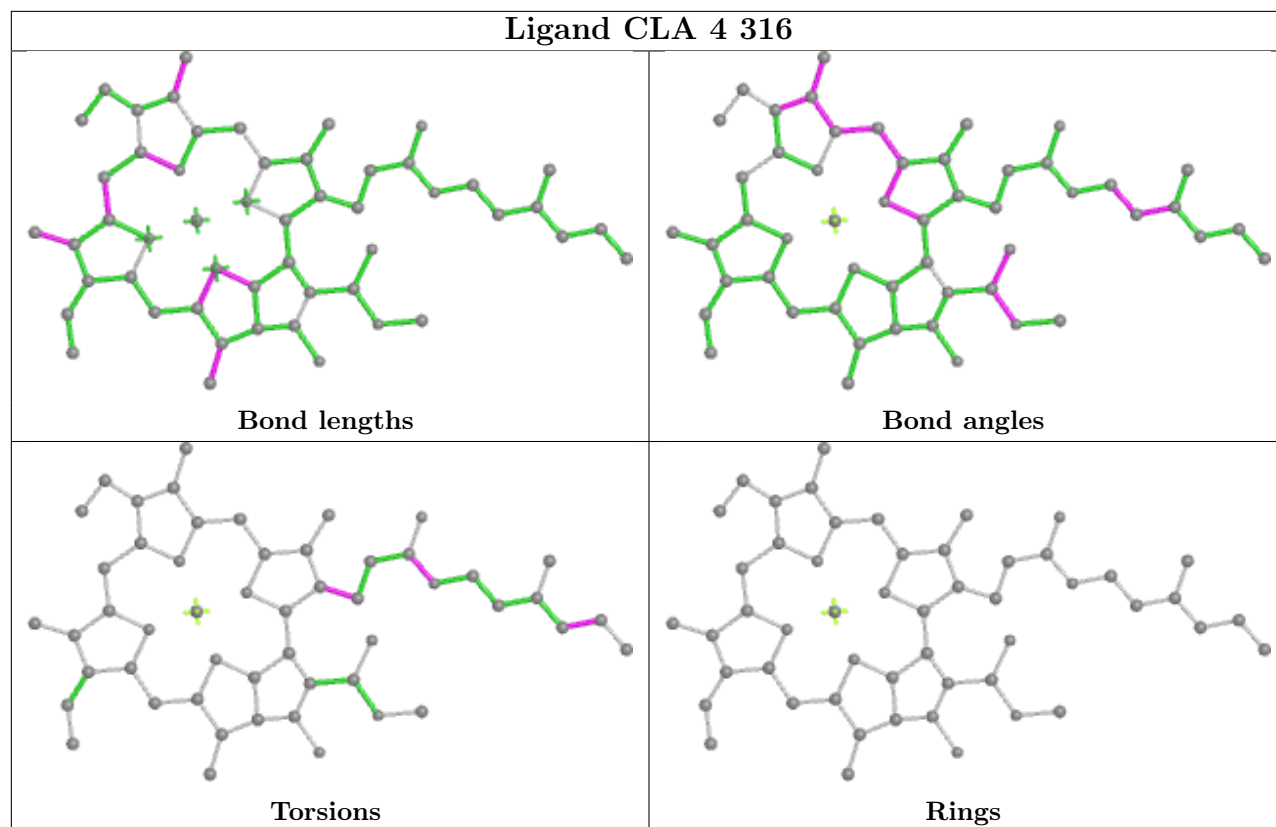


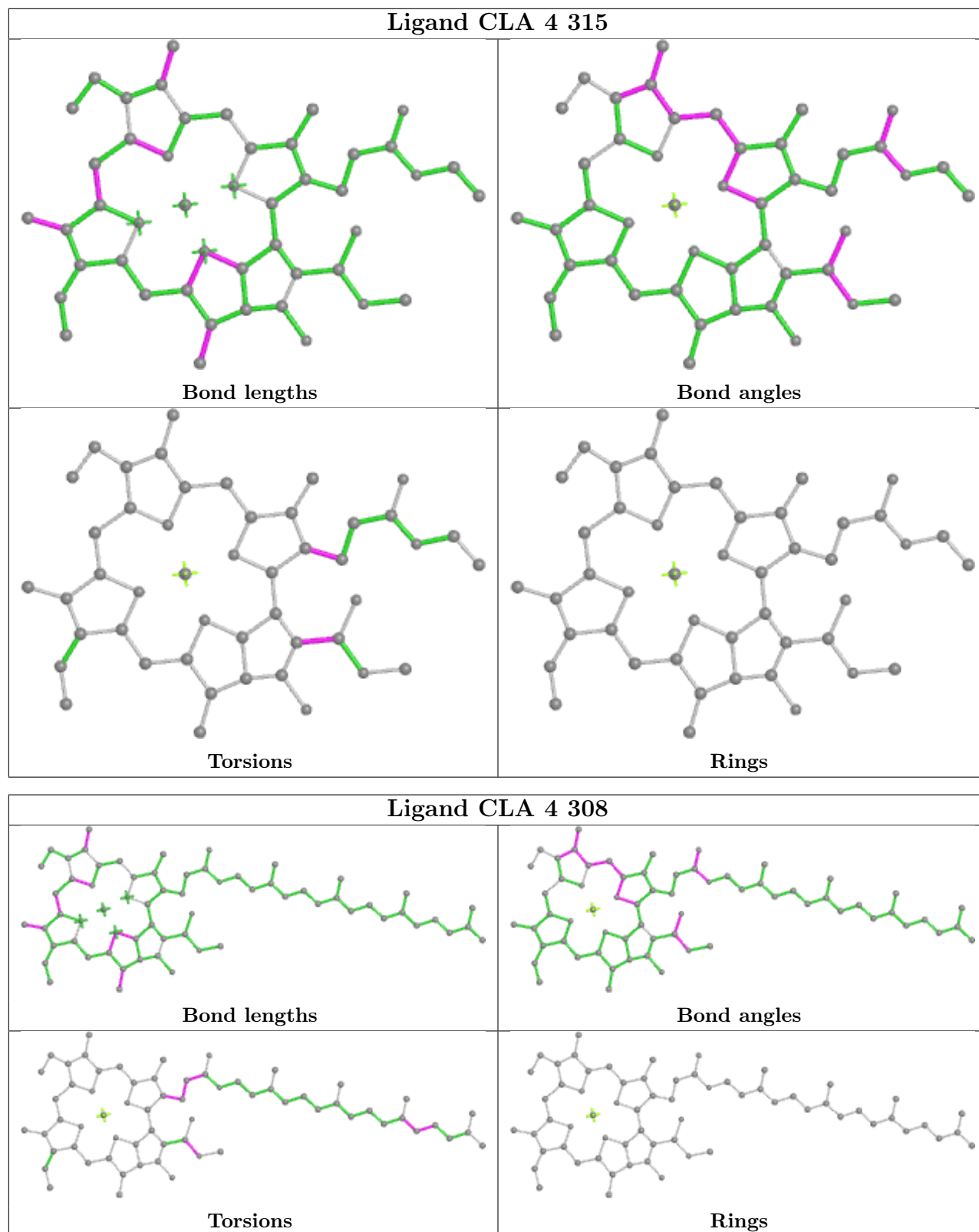




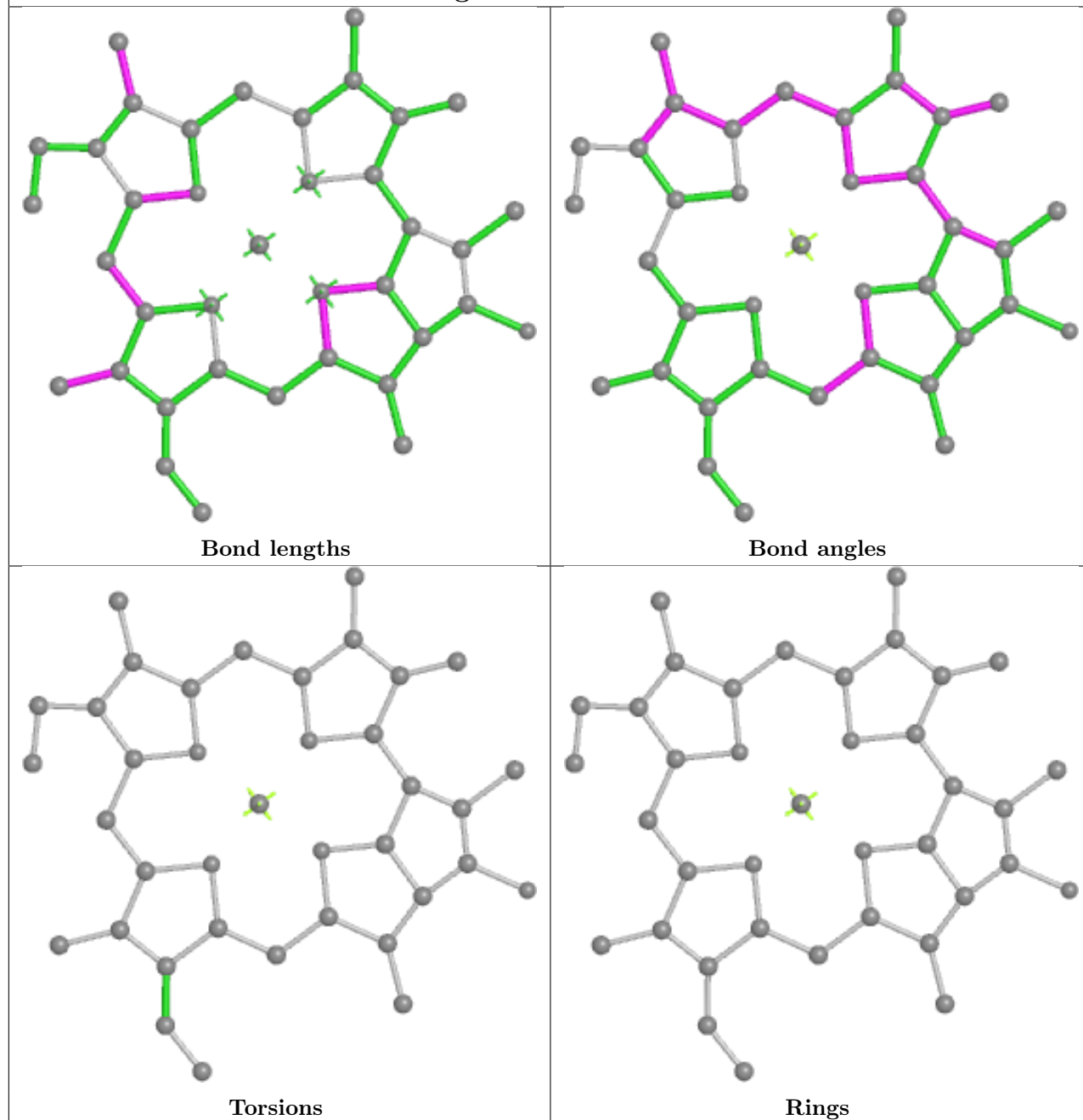


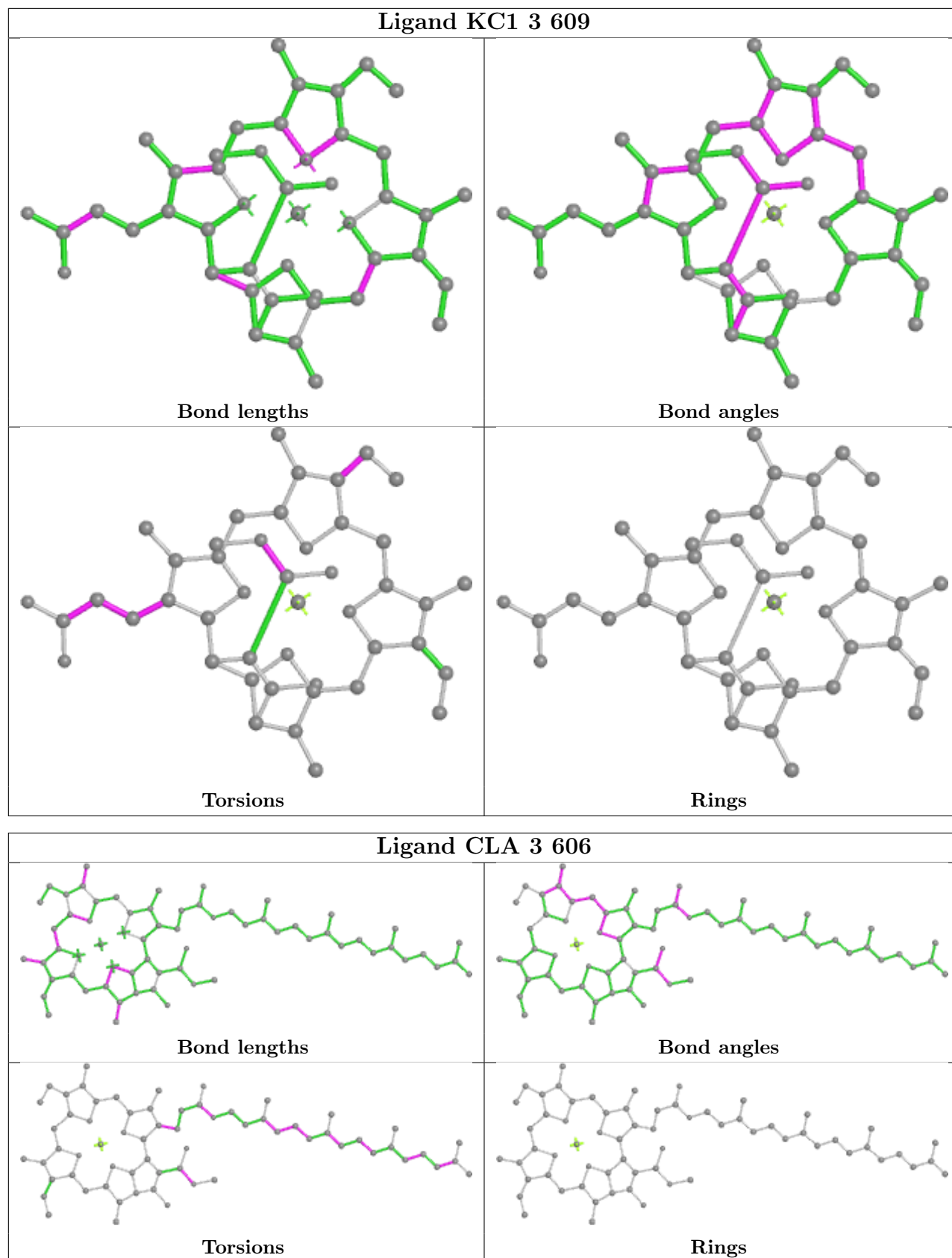


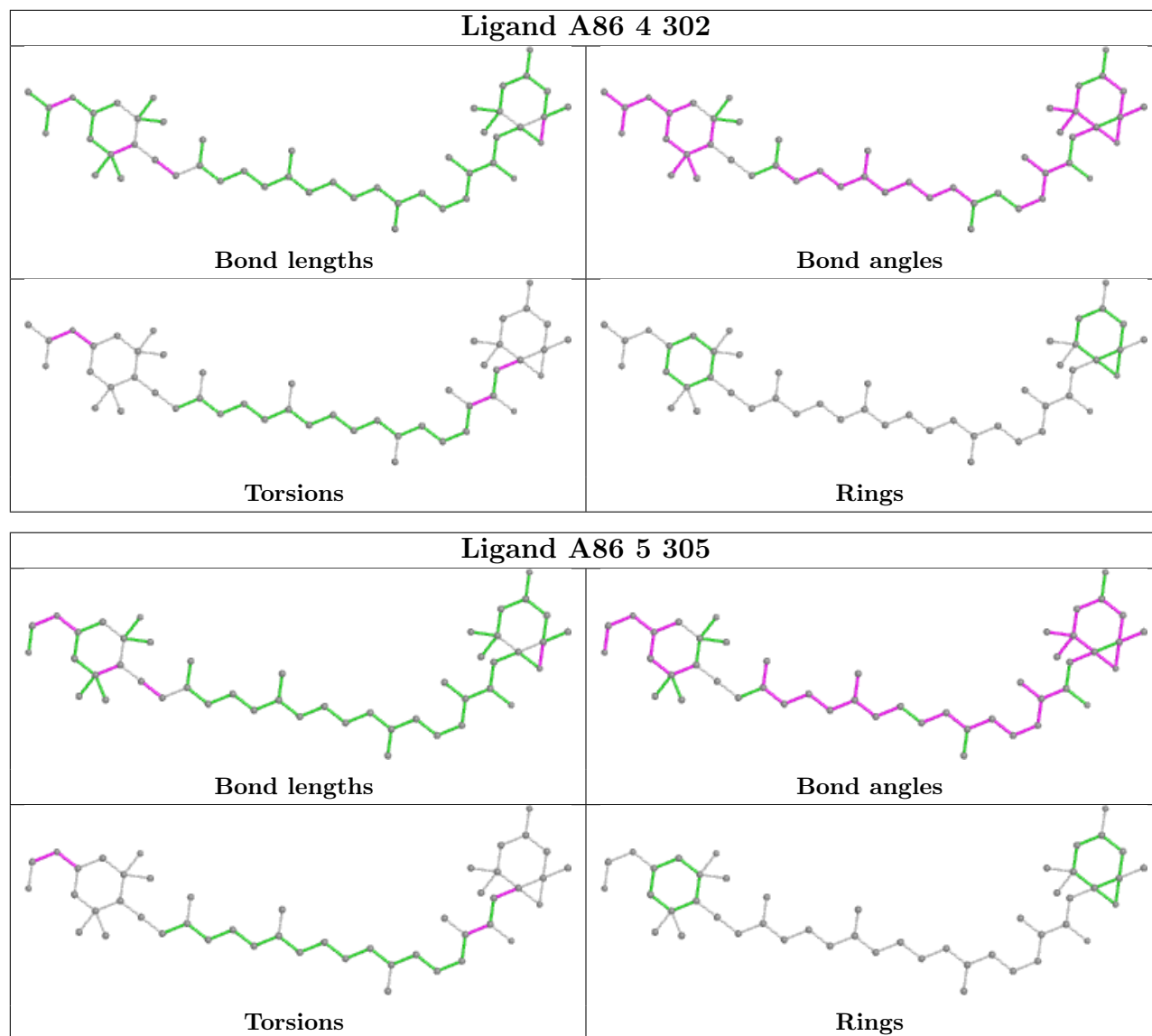


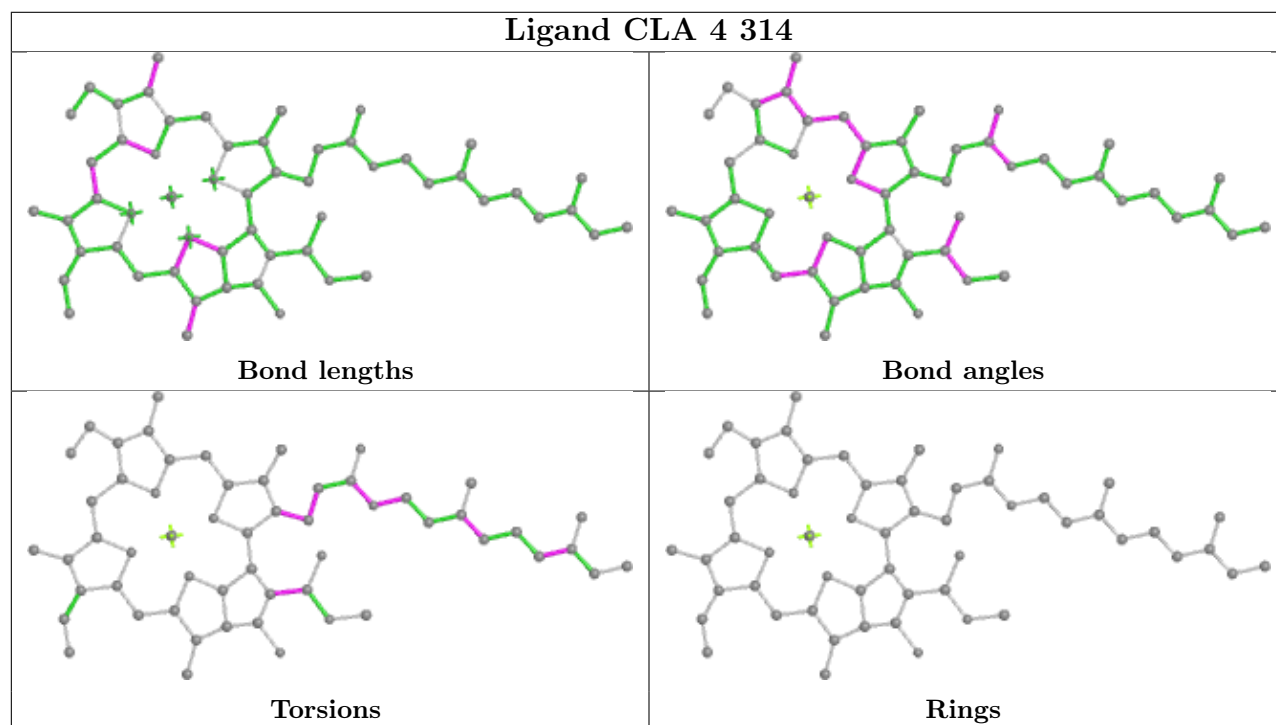
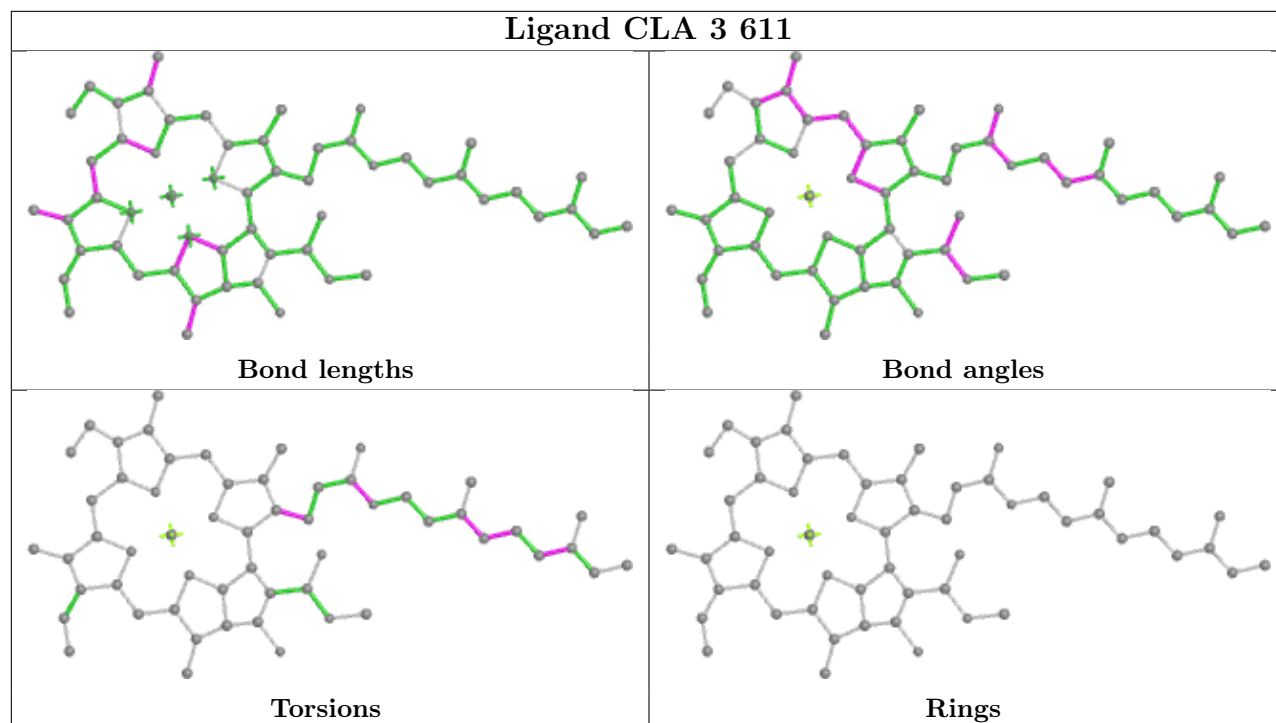


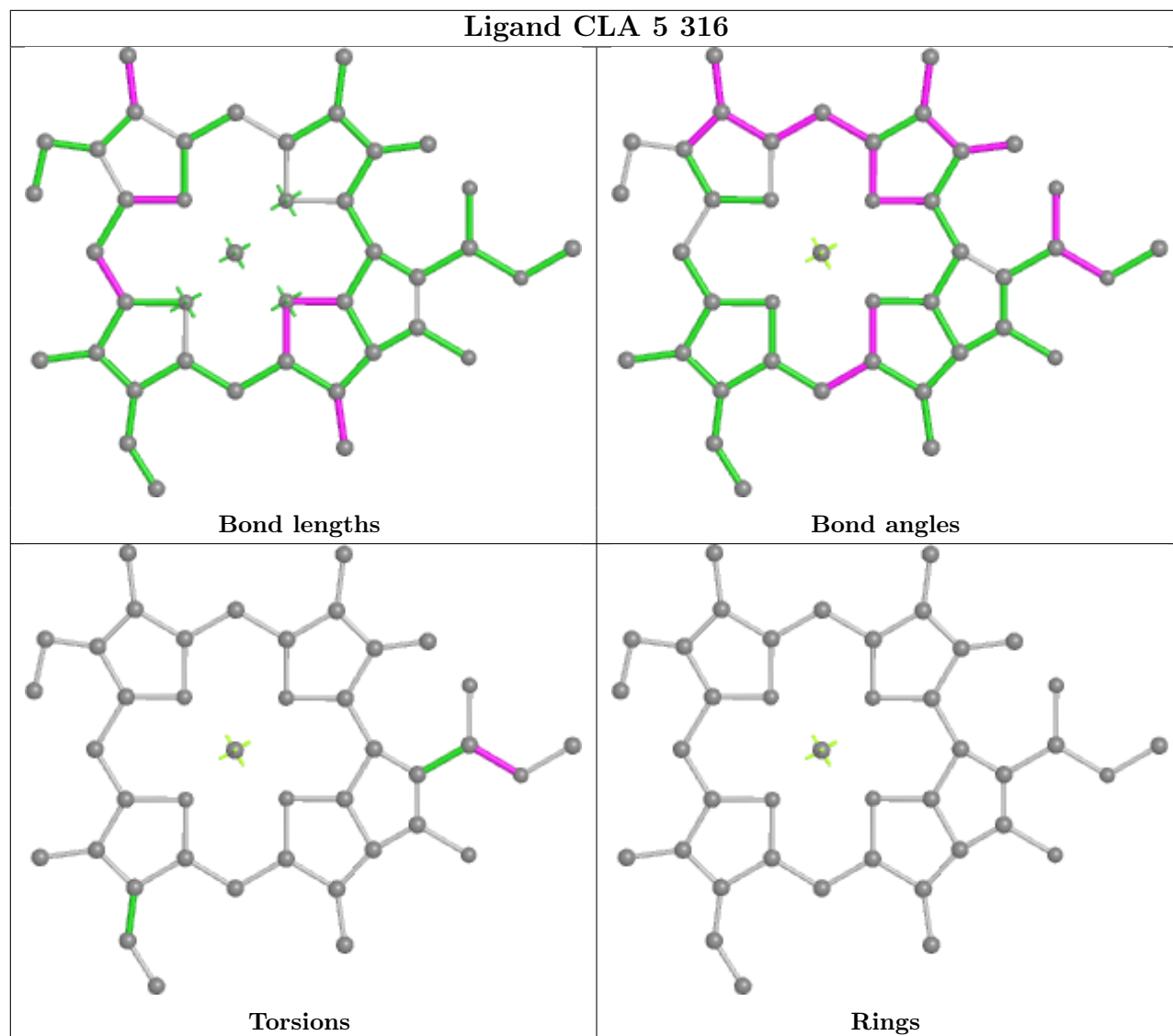
Ligand CLA 5 317

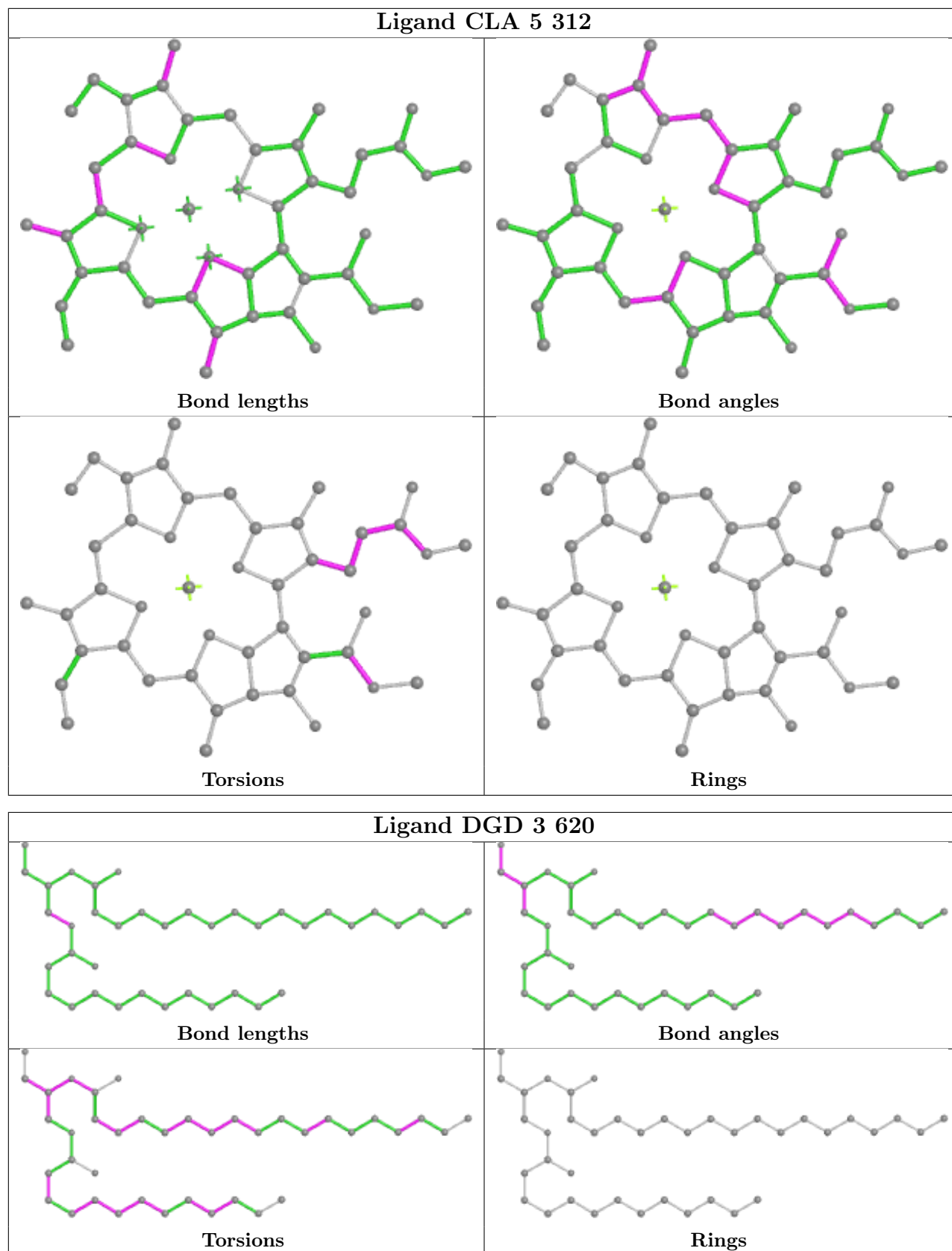


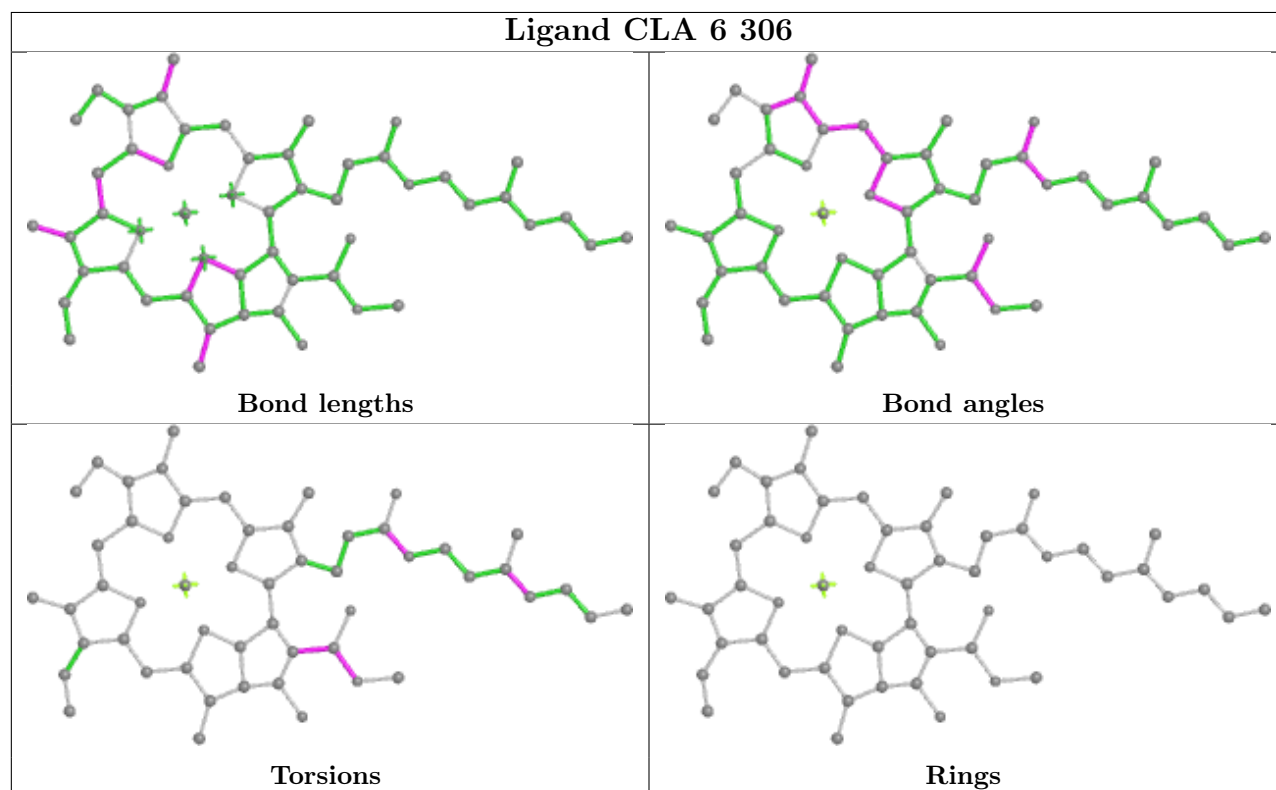
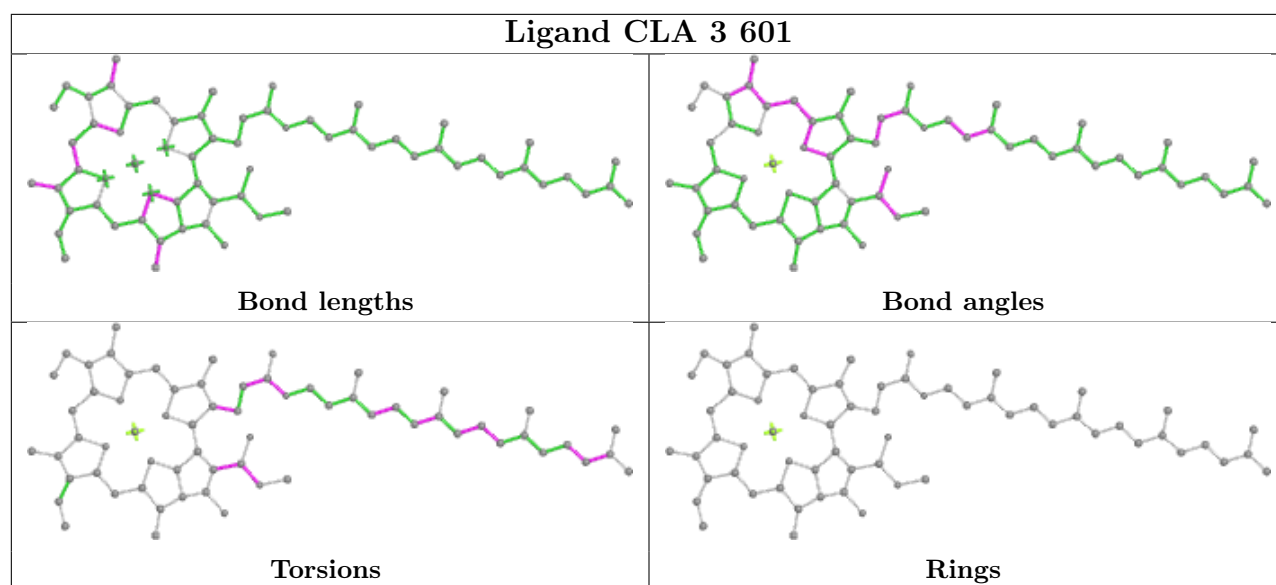


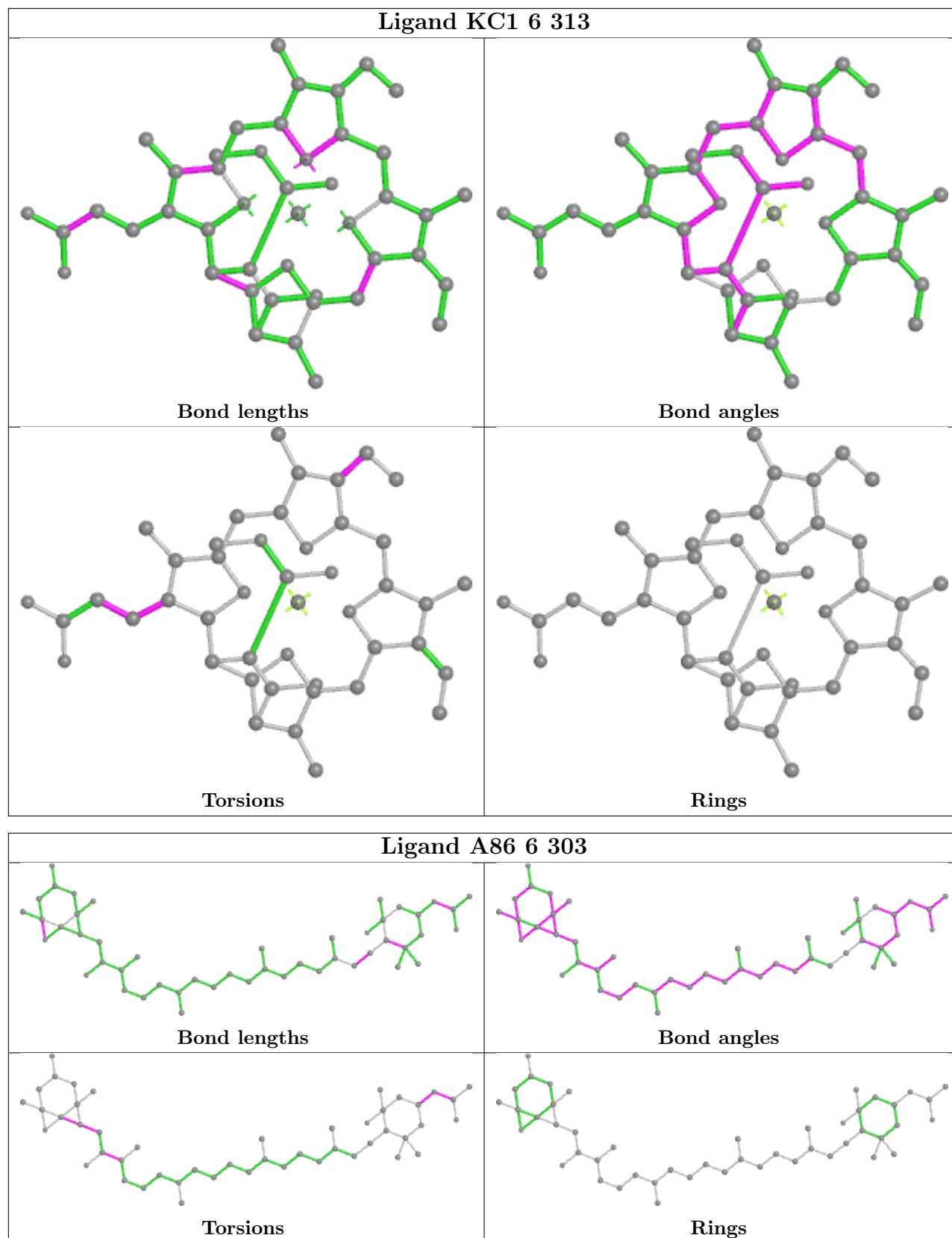


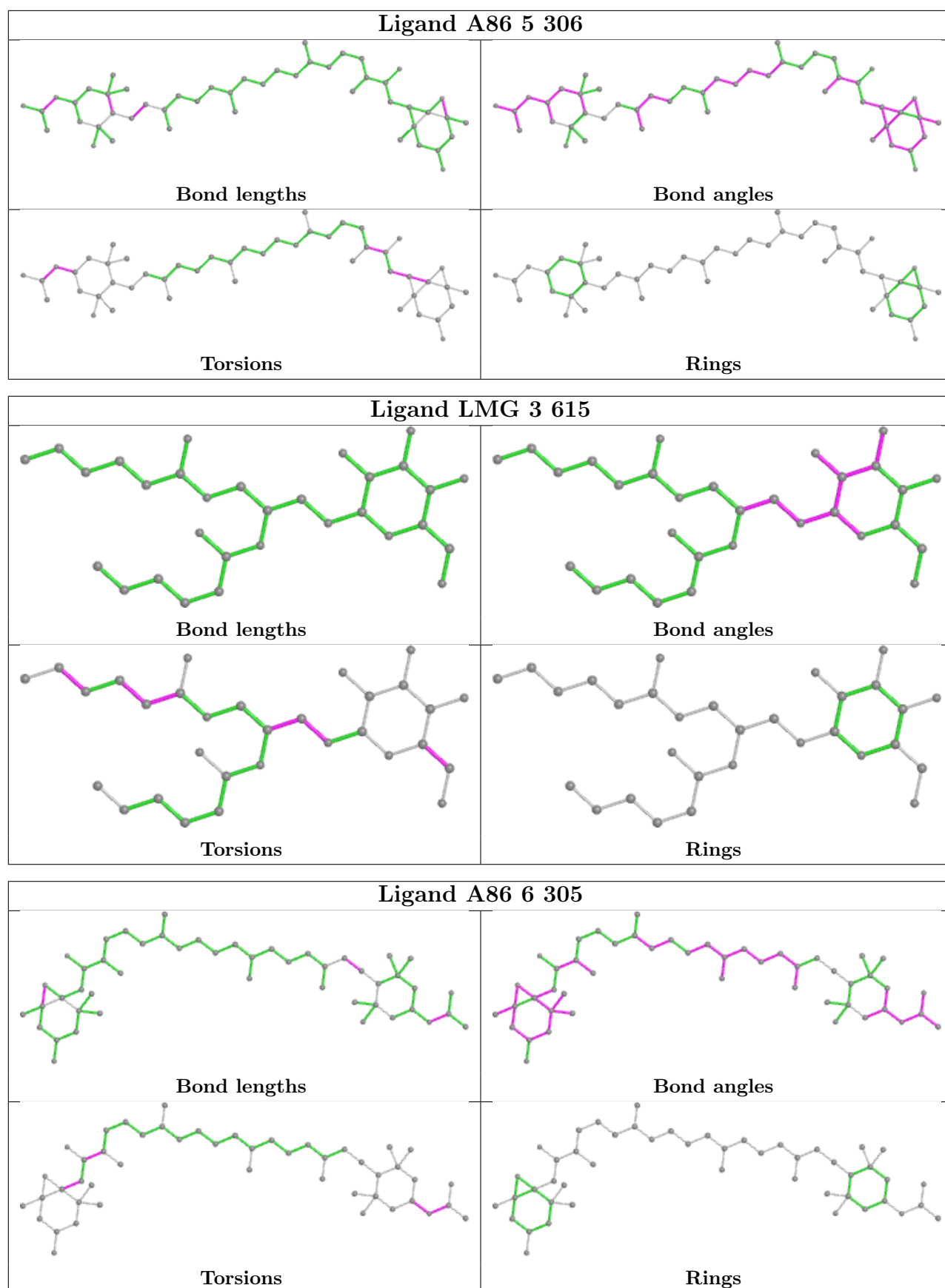


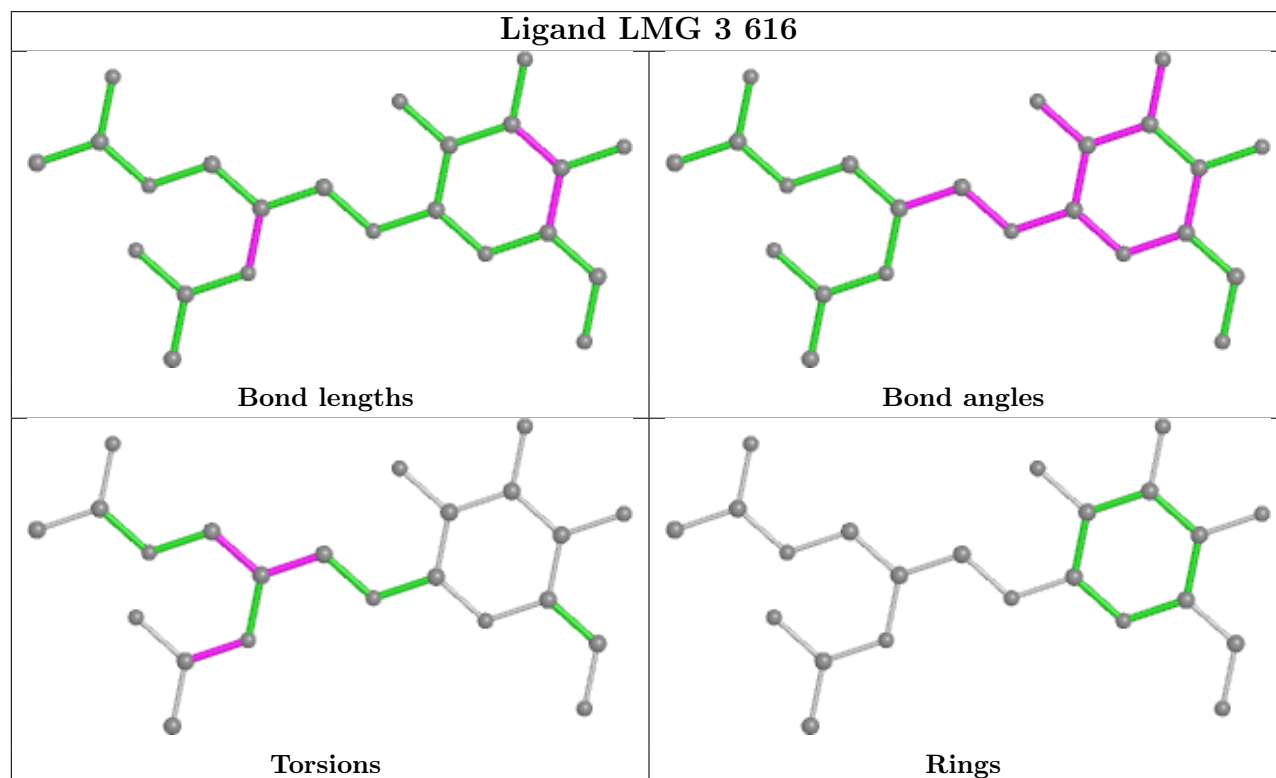
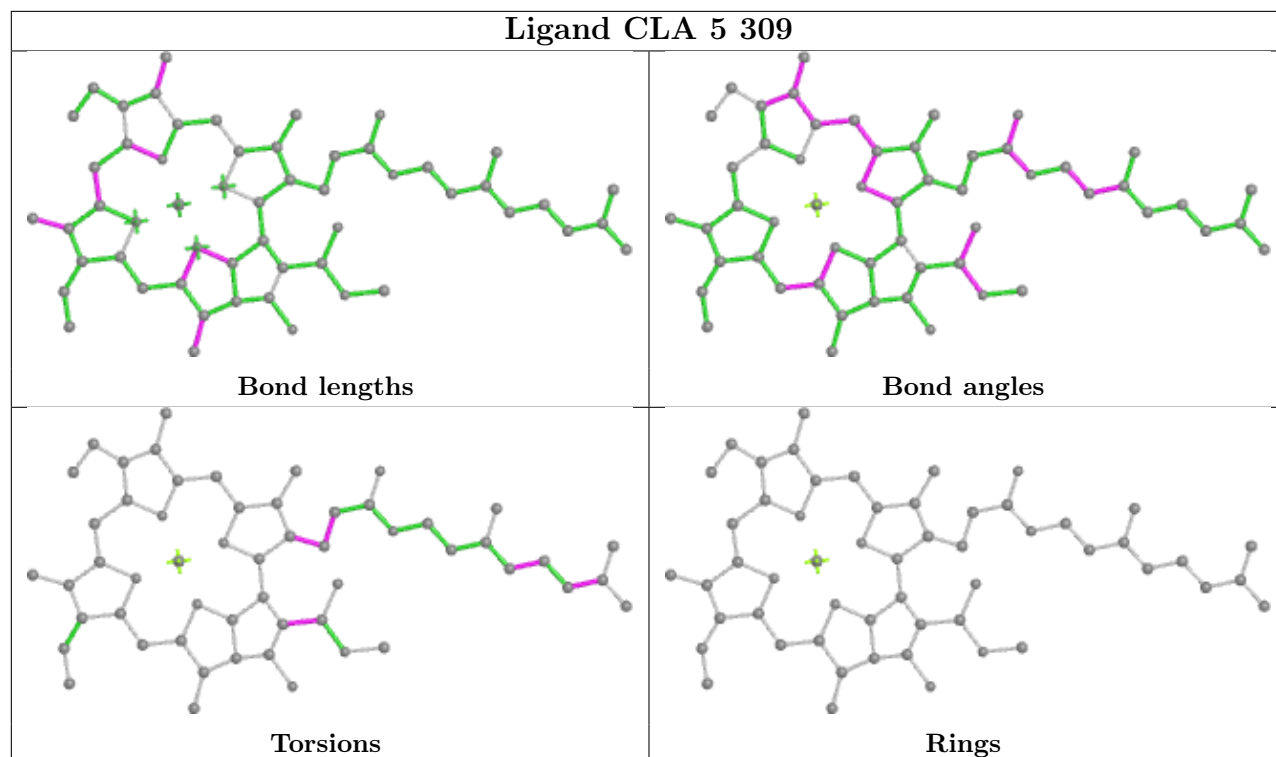


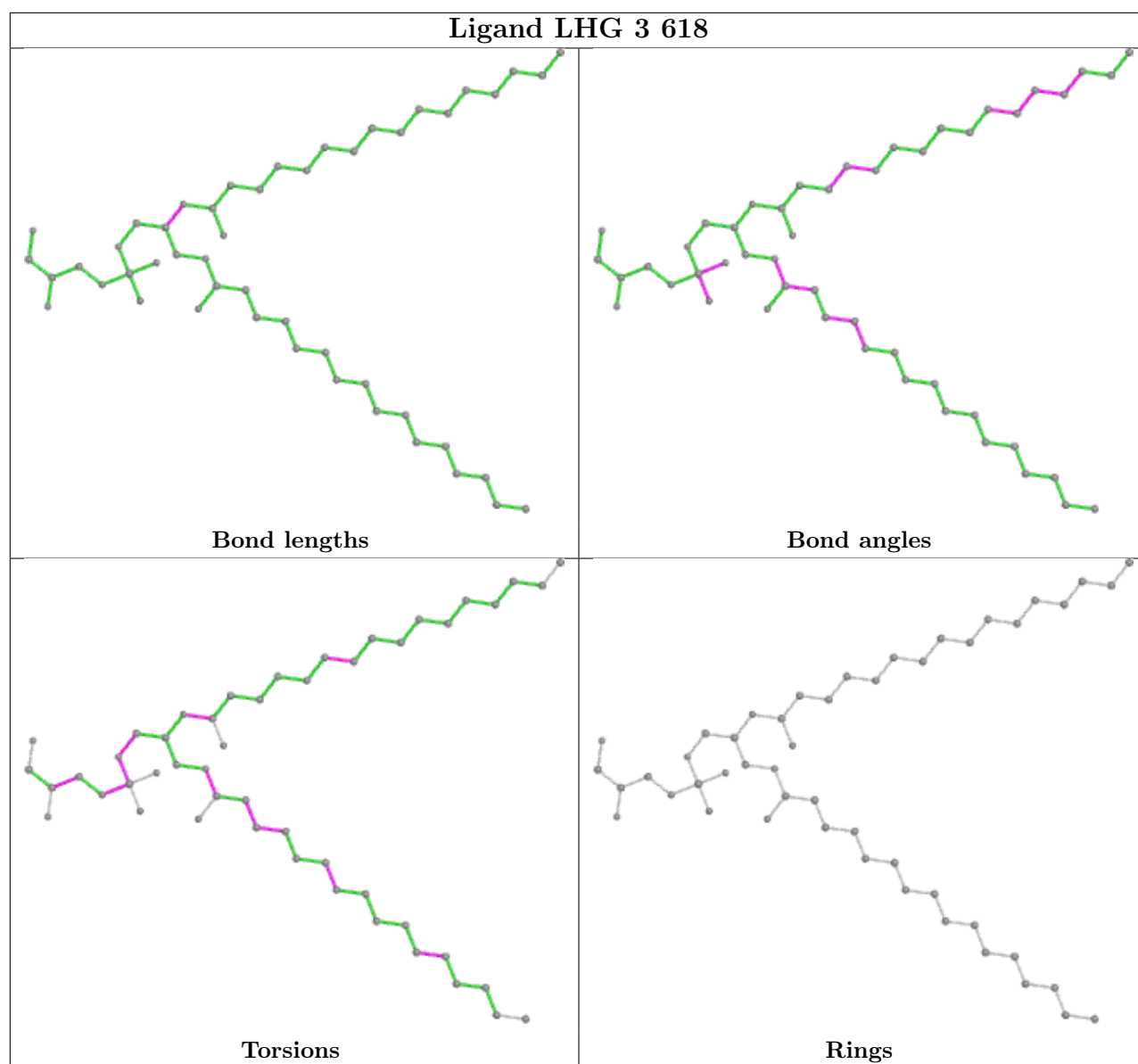


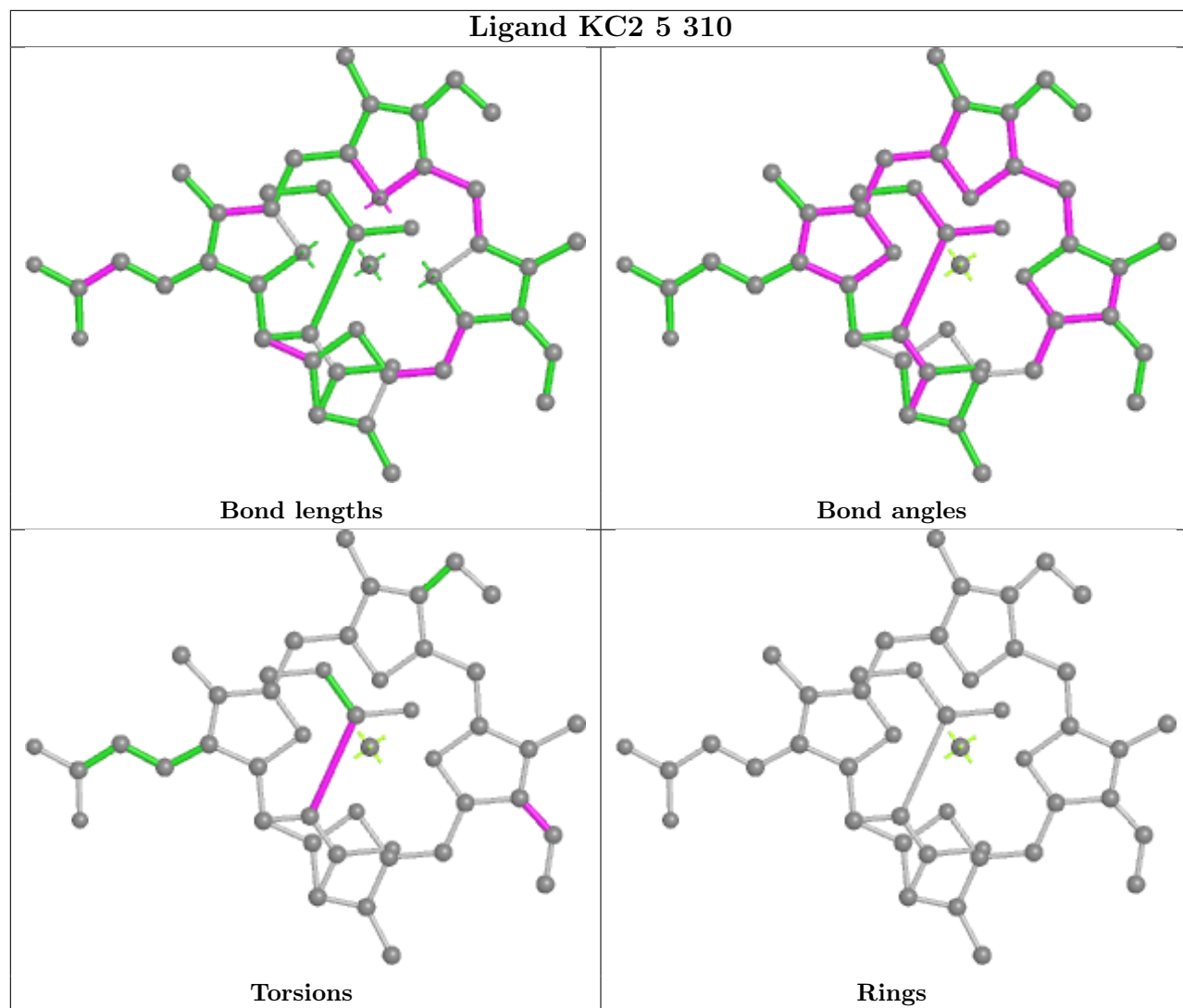


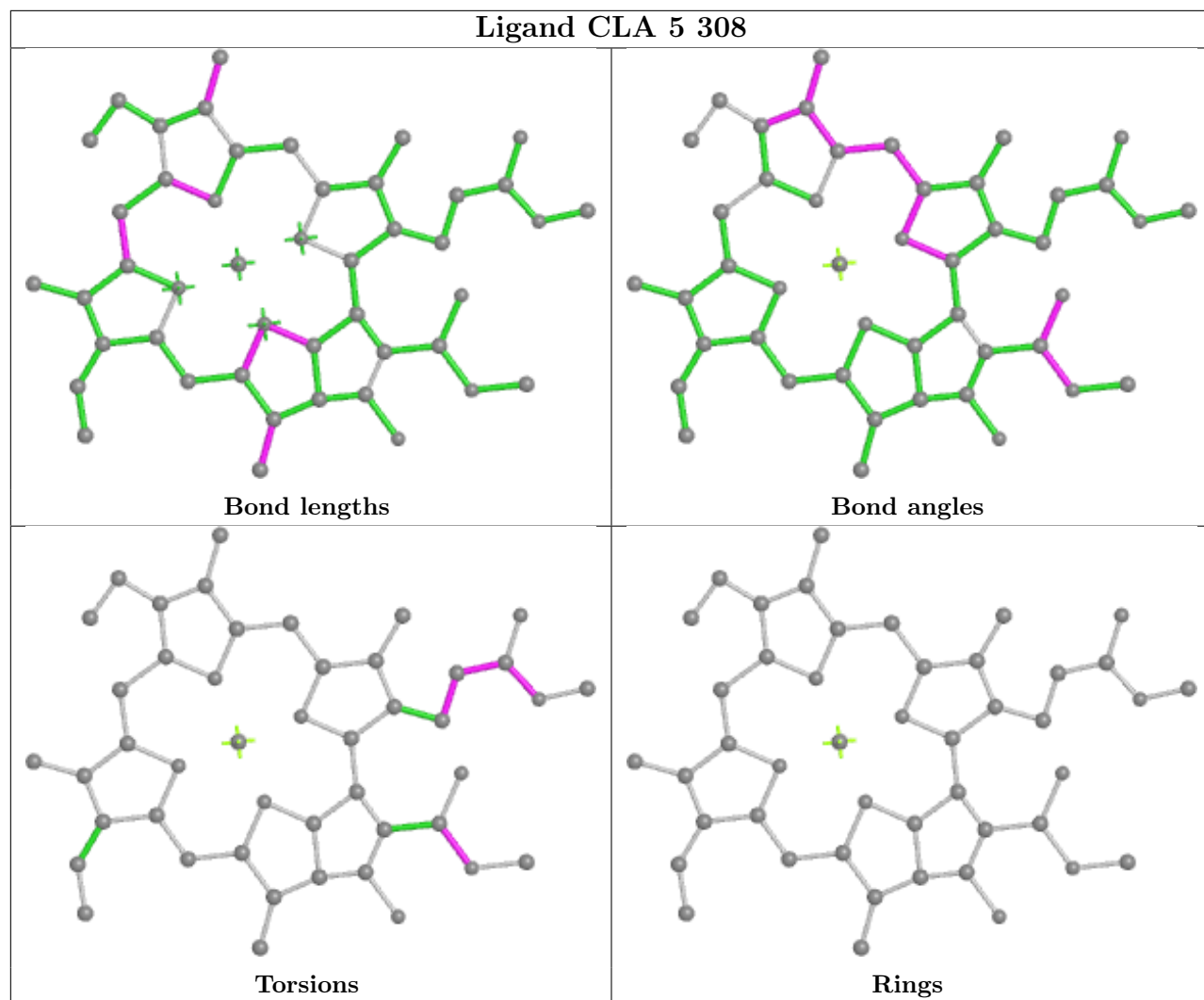


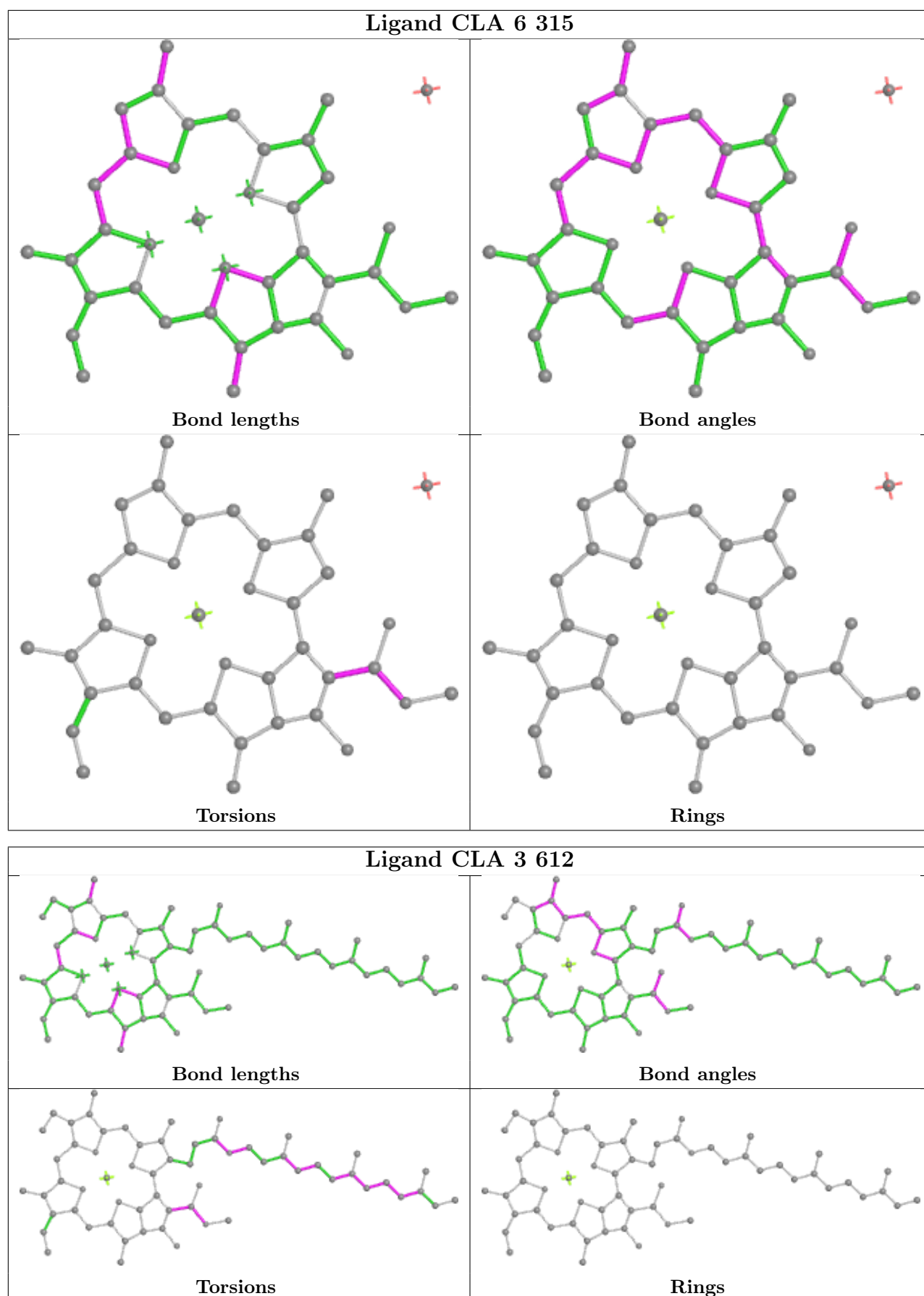


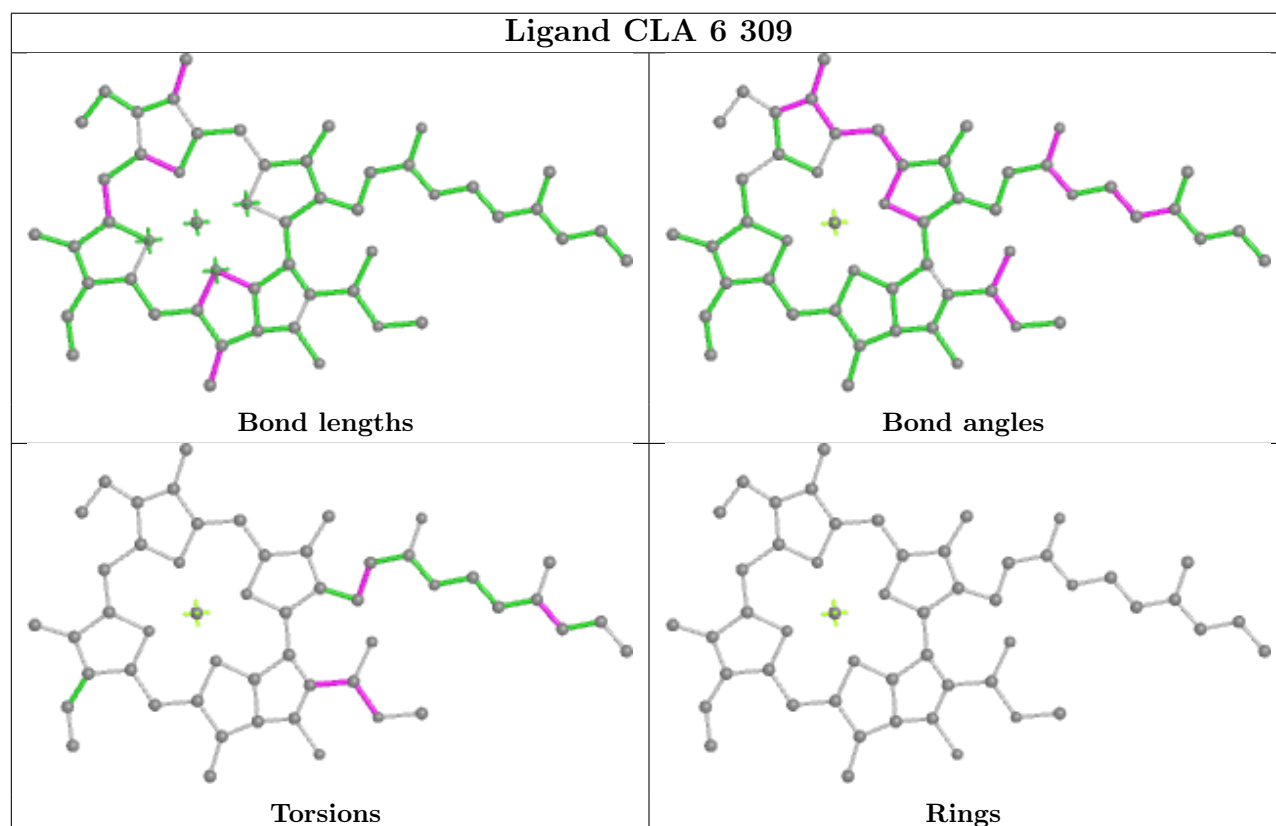
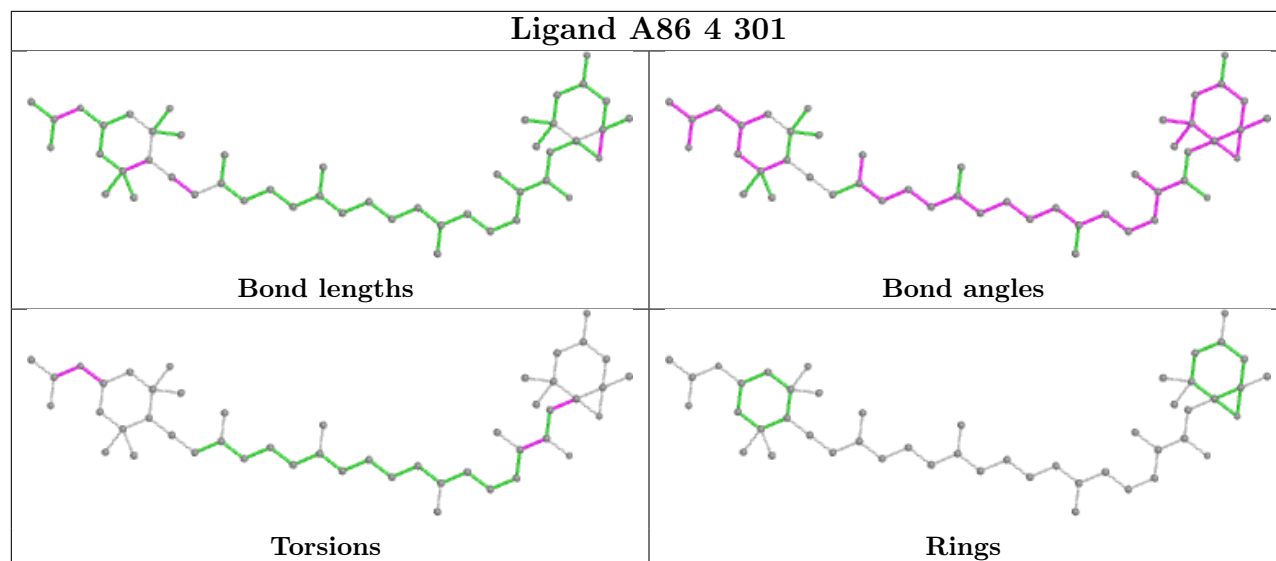


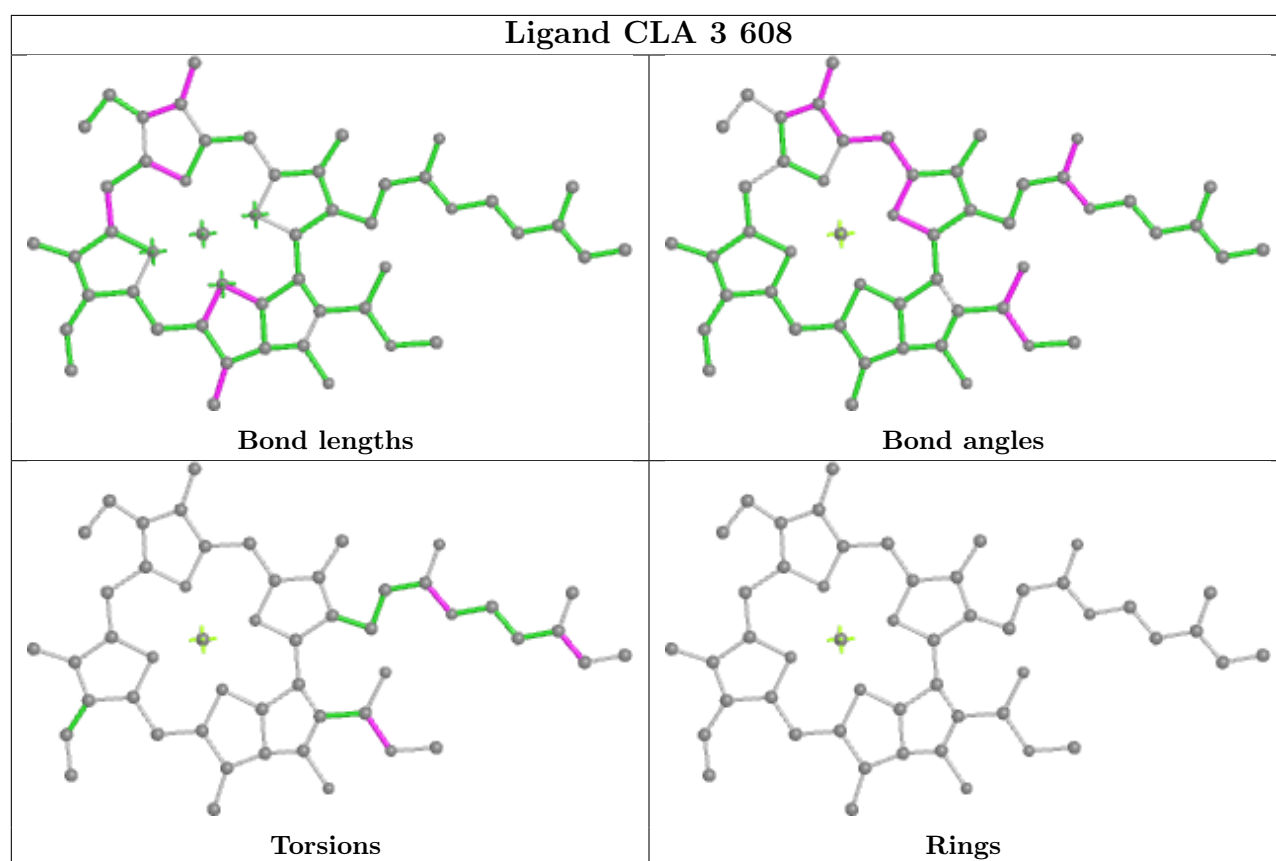
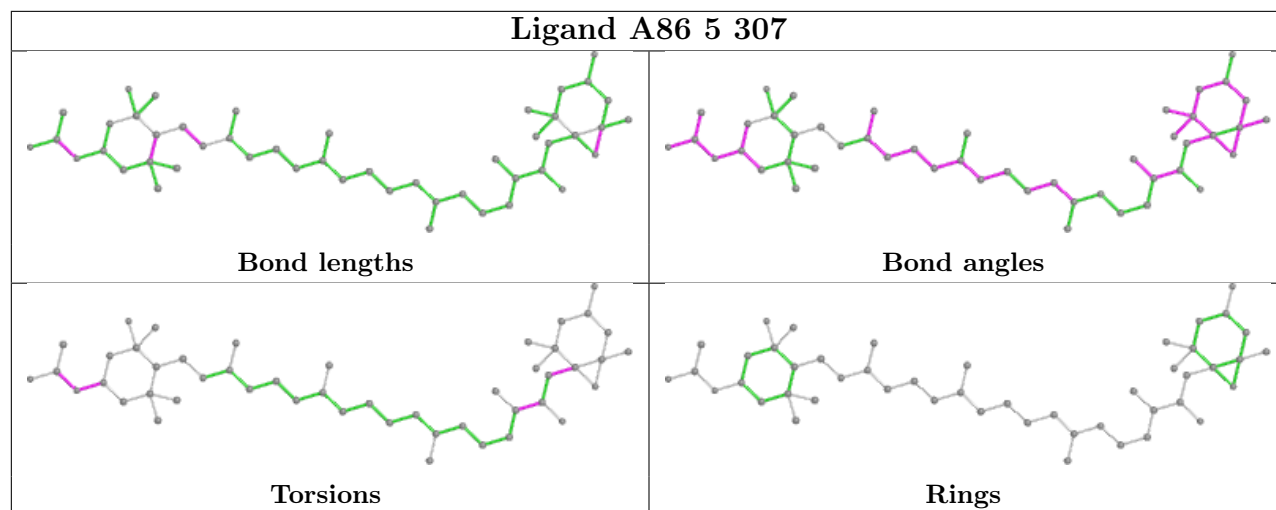


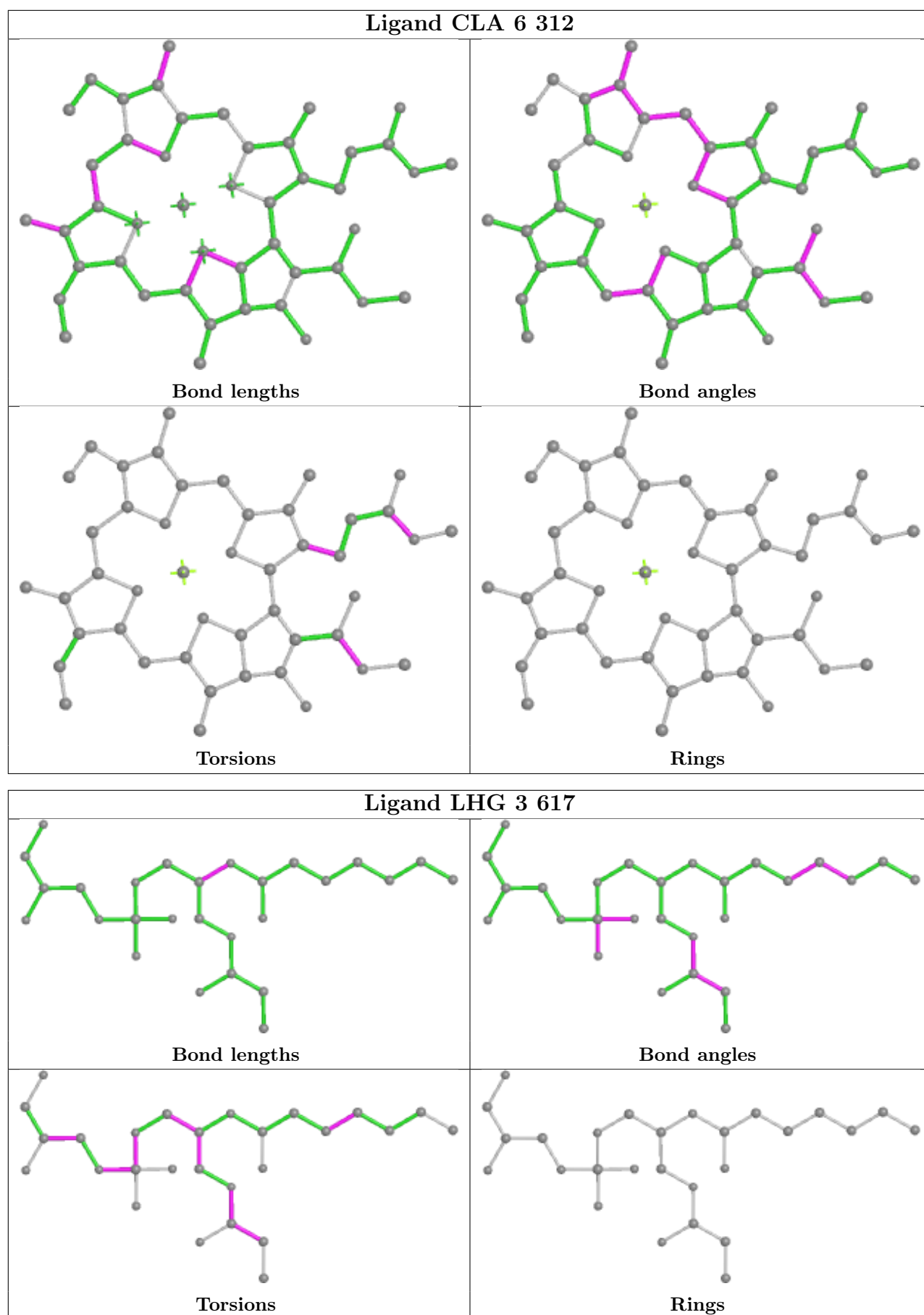


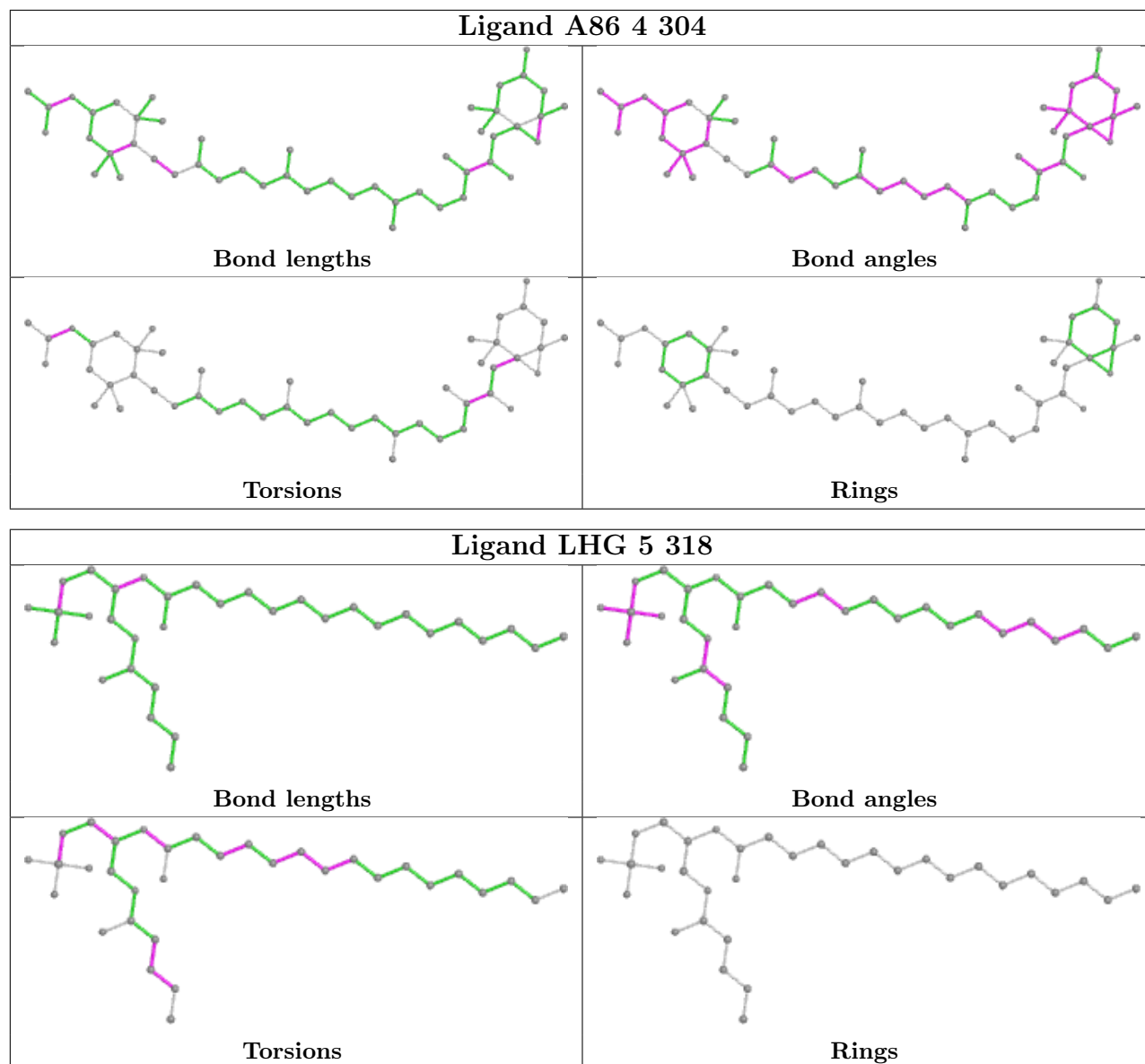


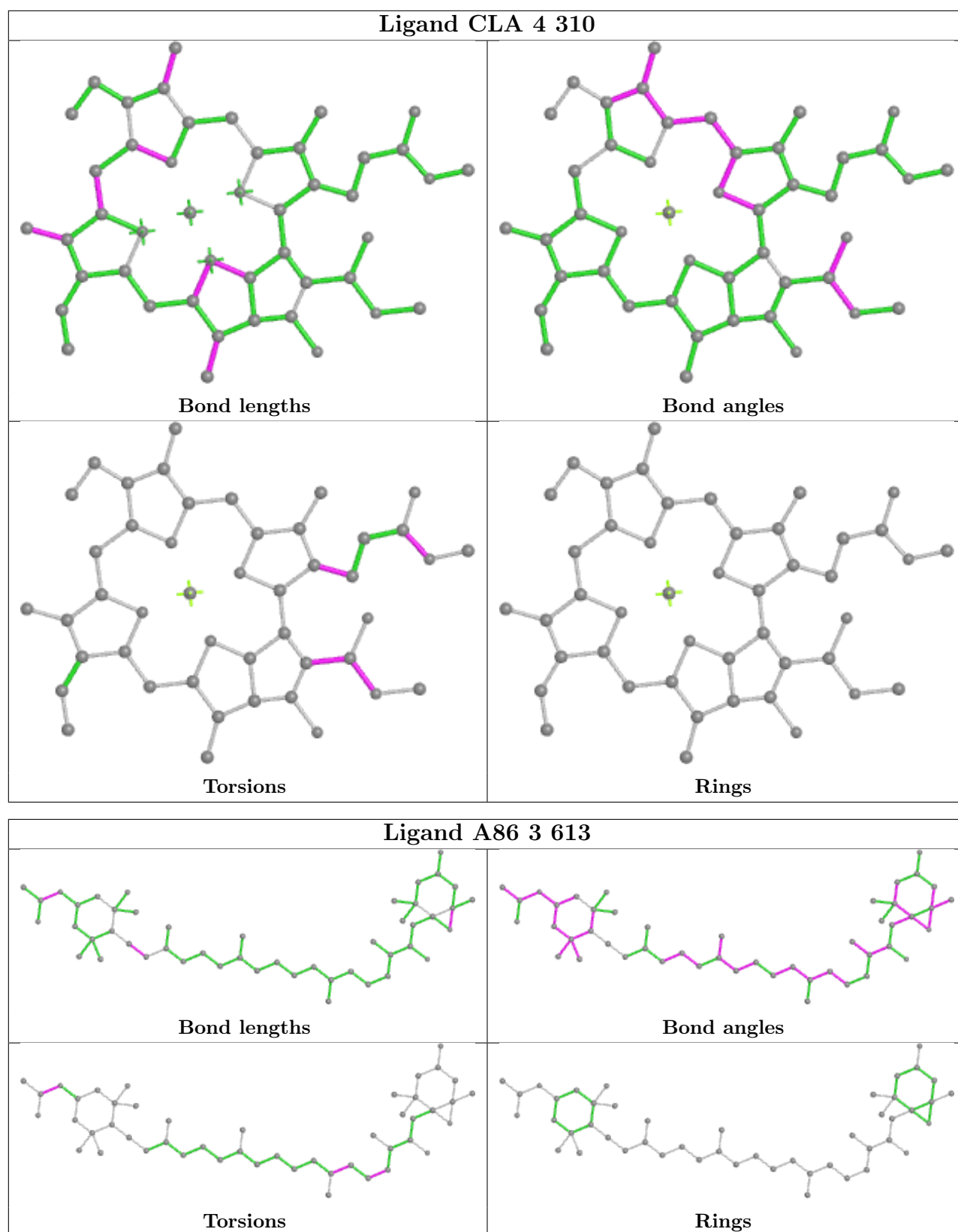


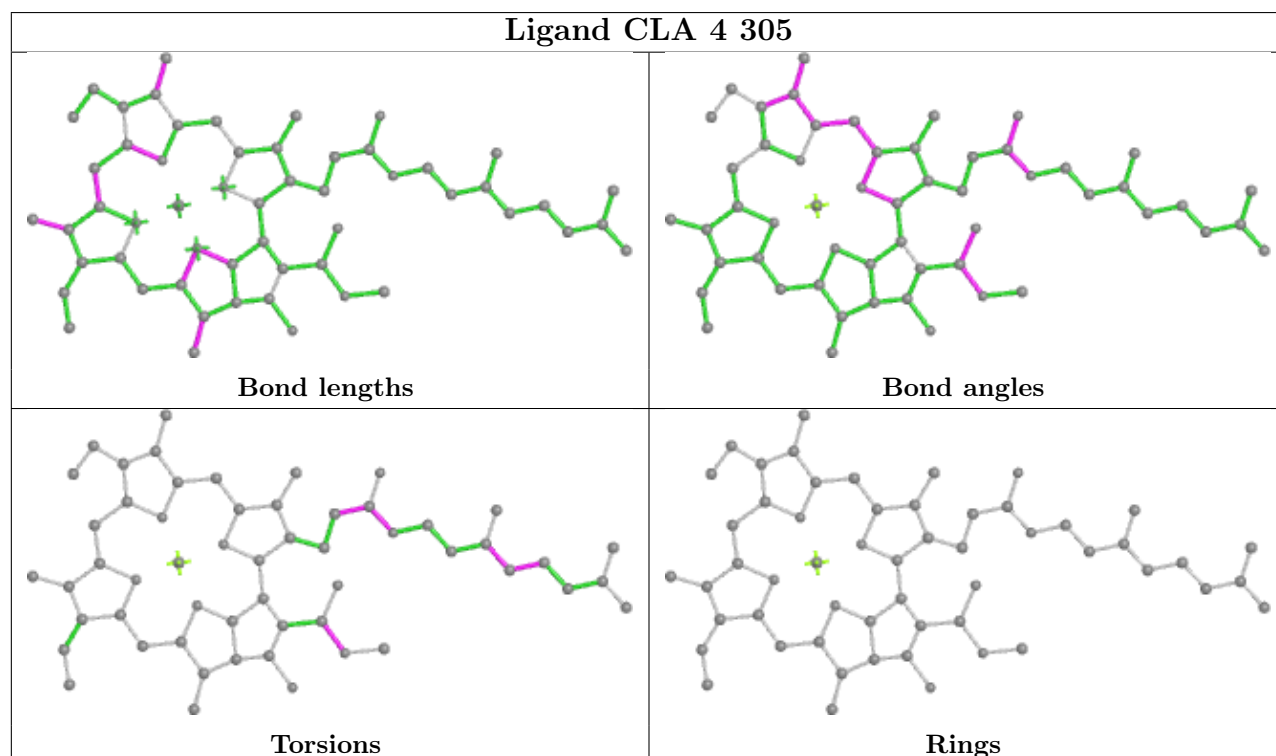
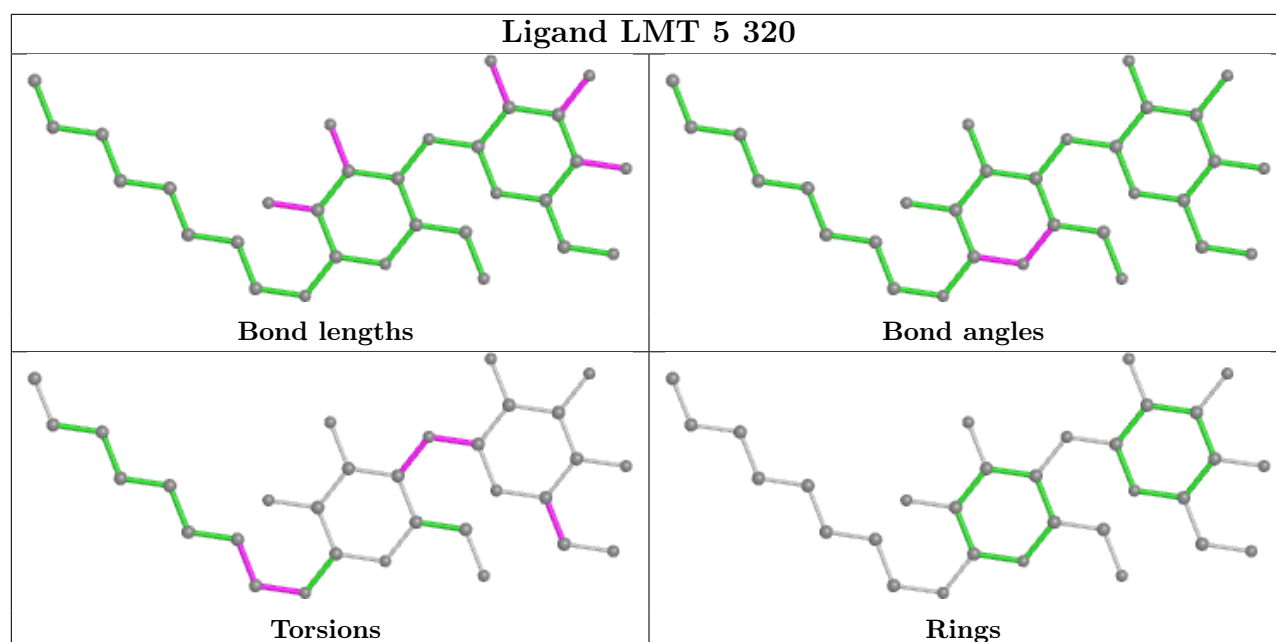


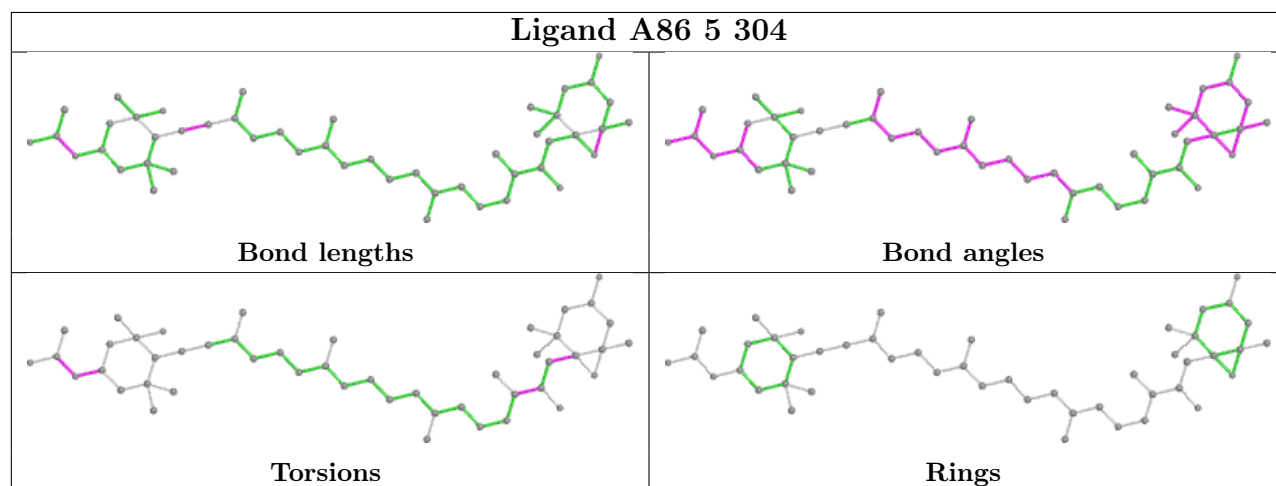
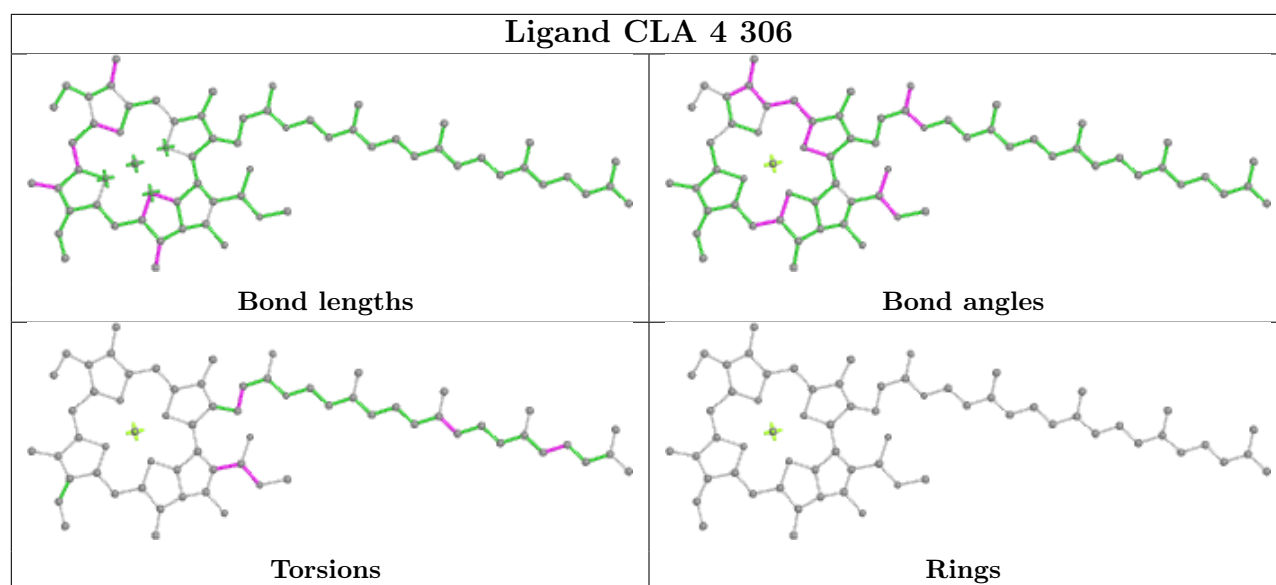


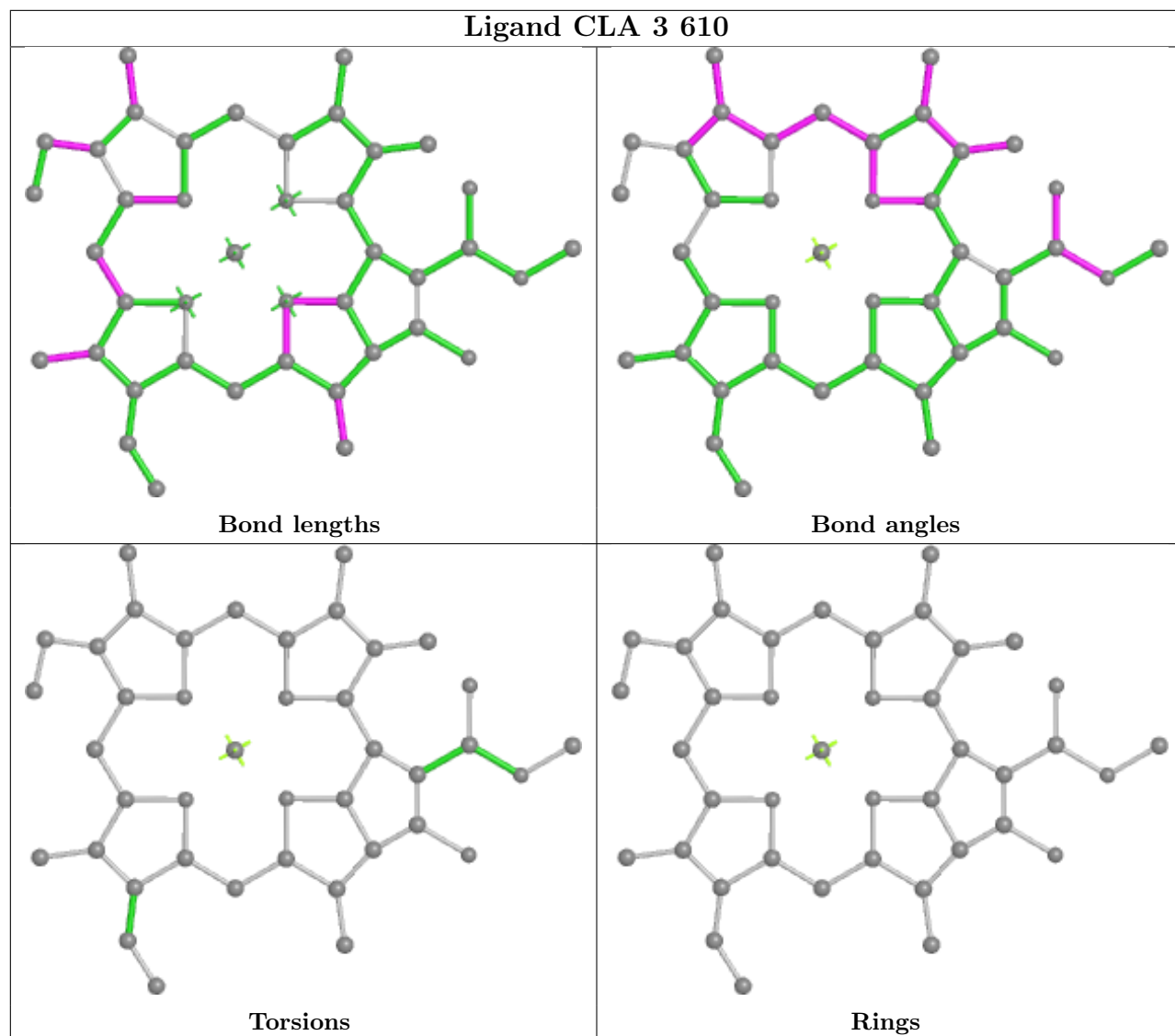


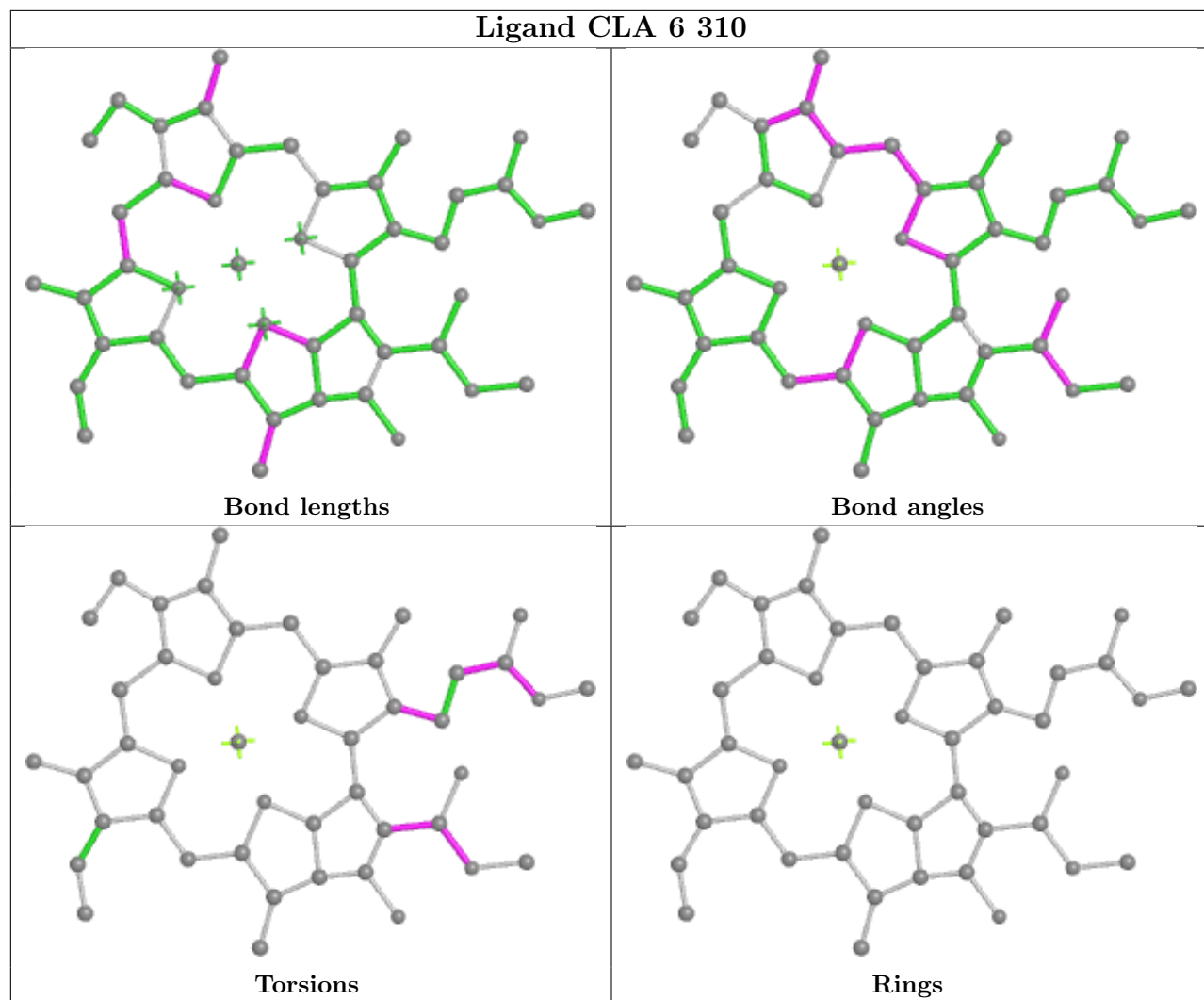


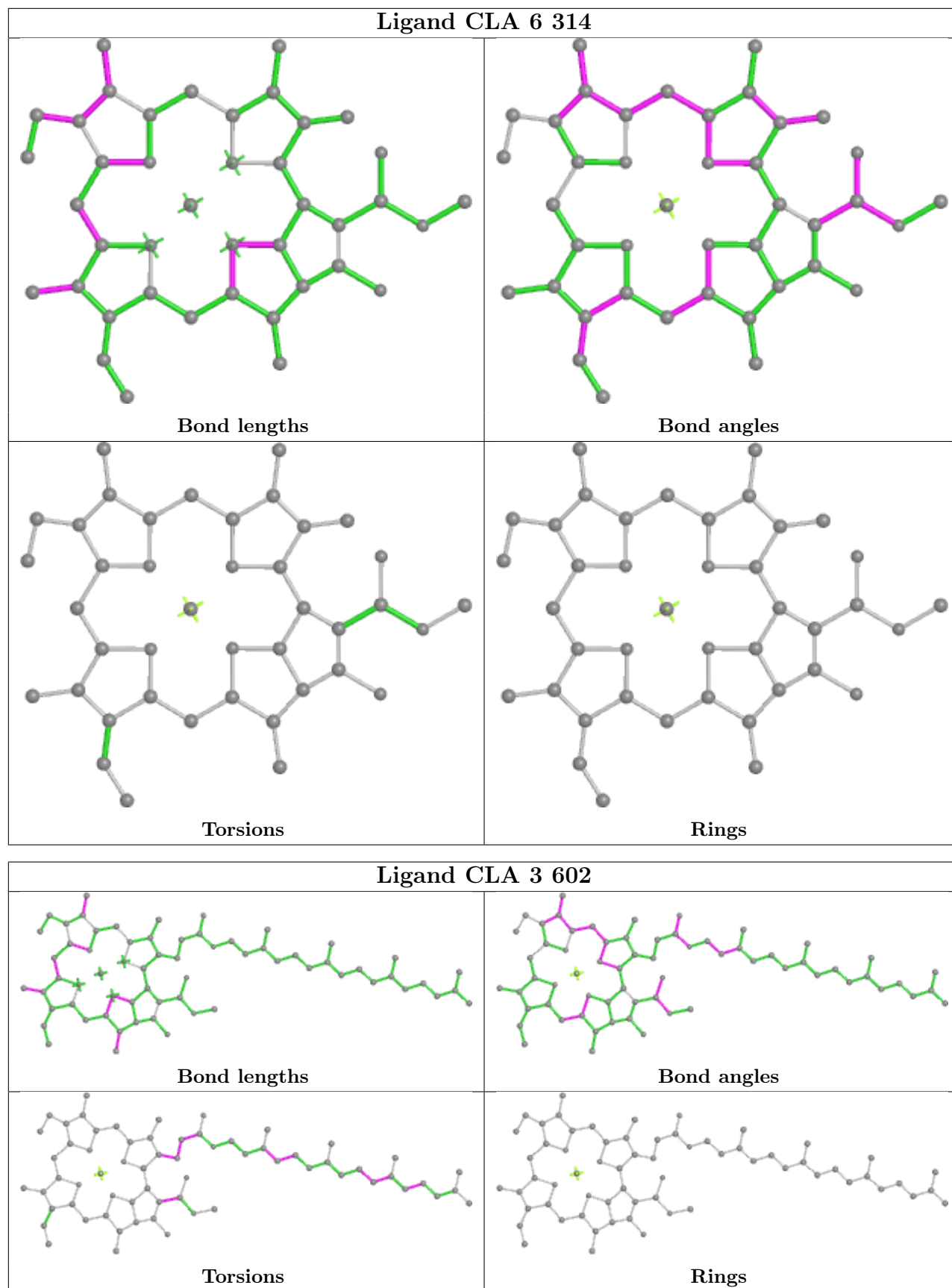


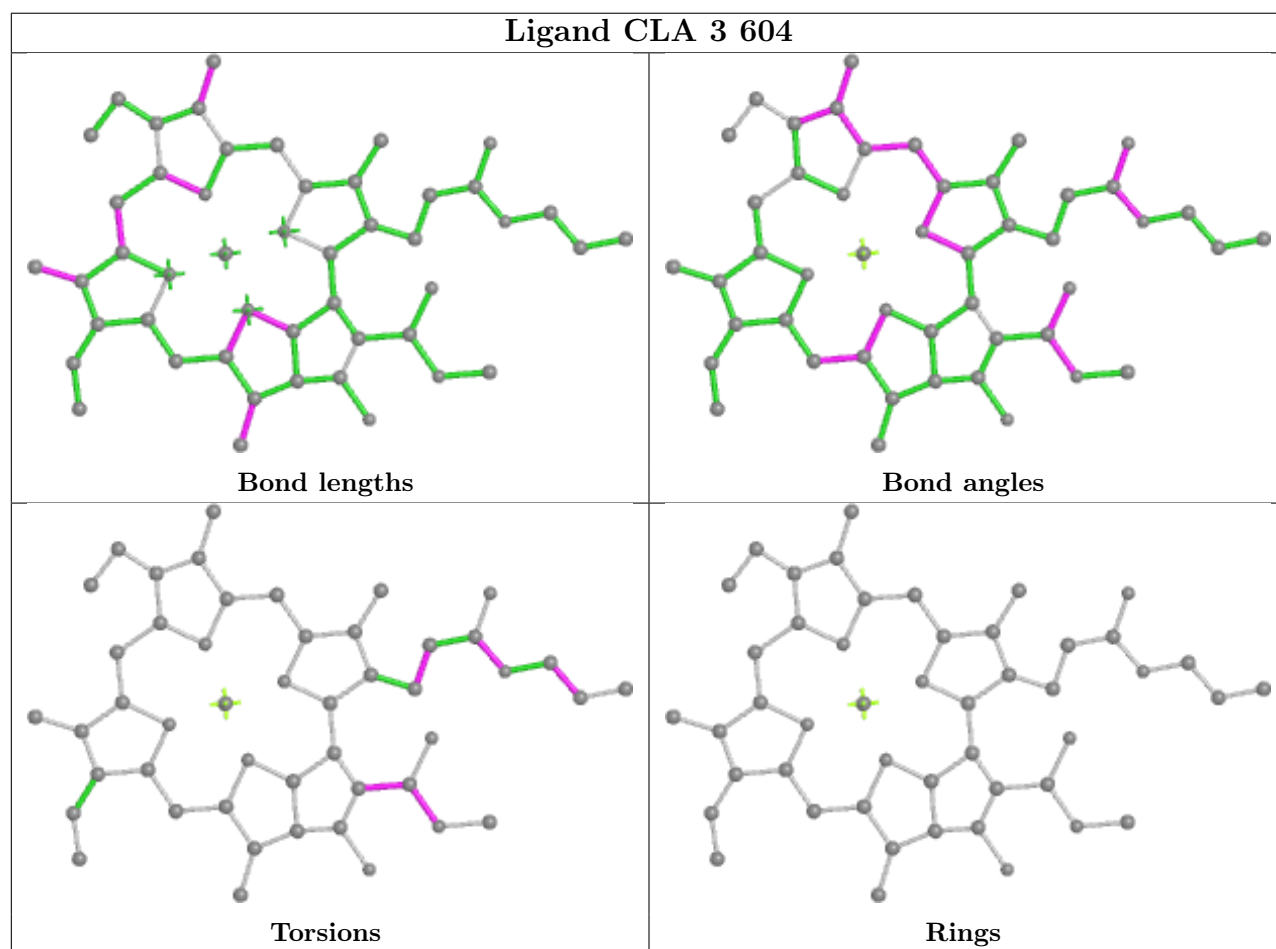
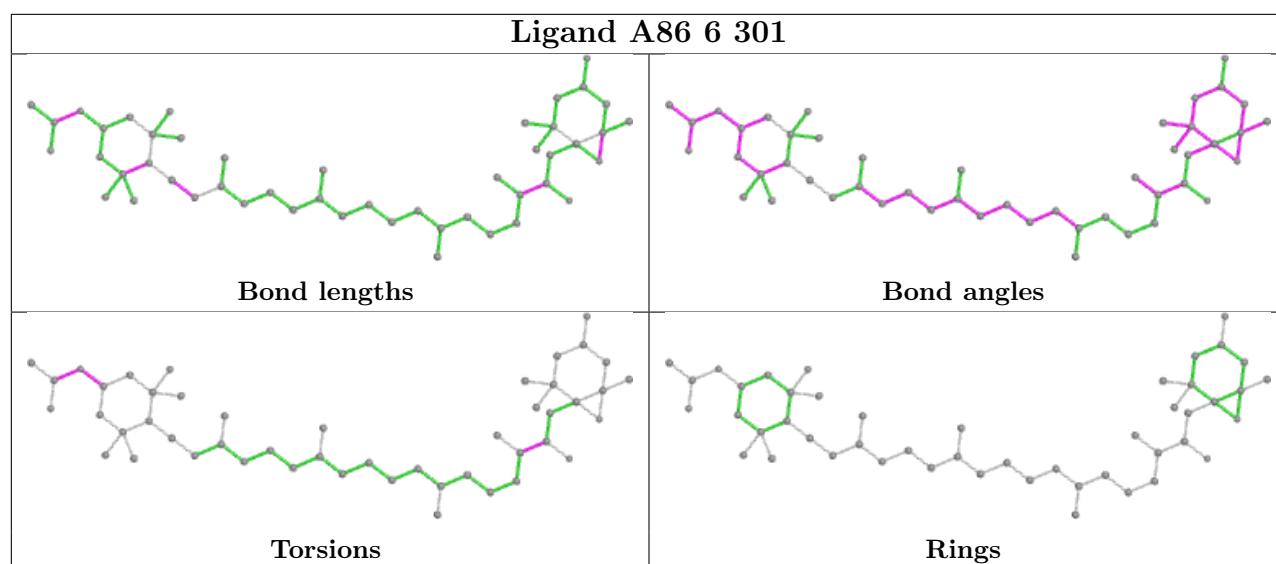


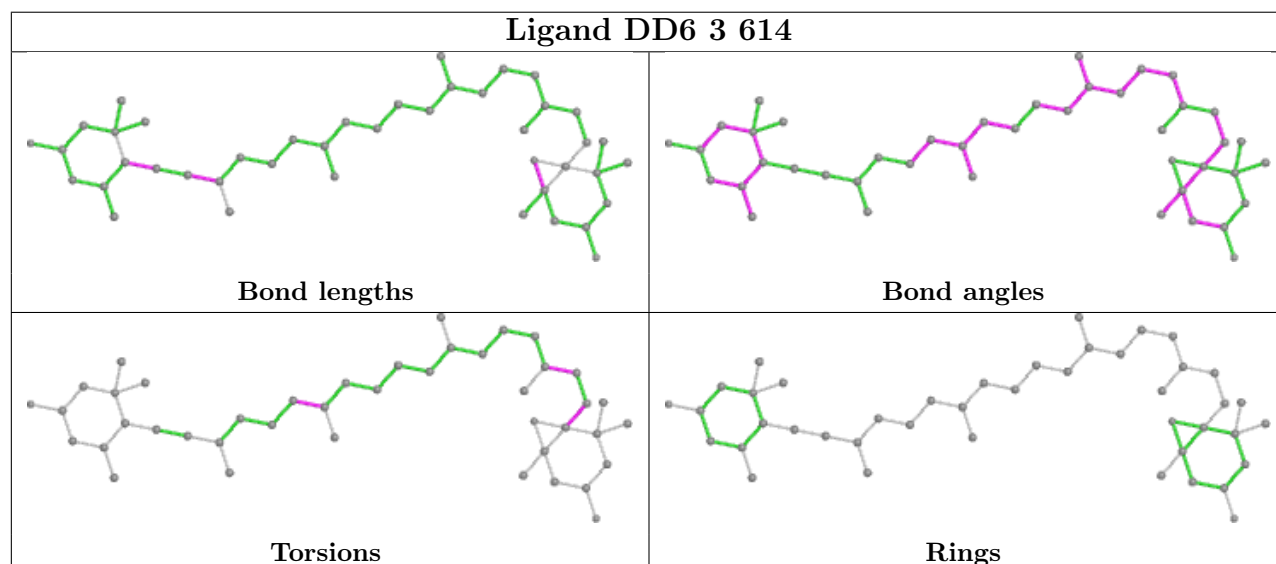
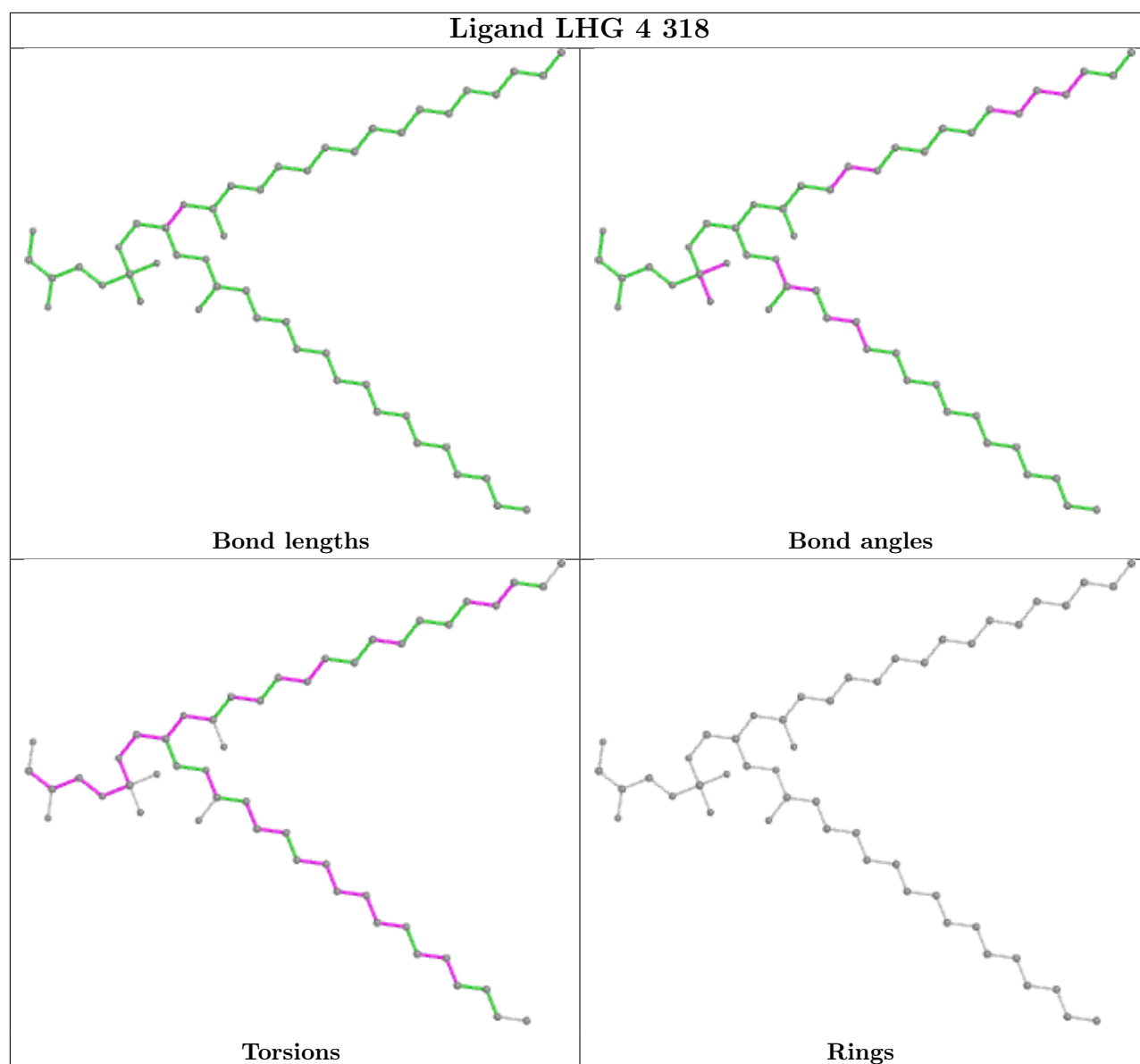


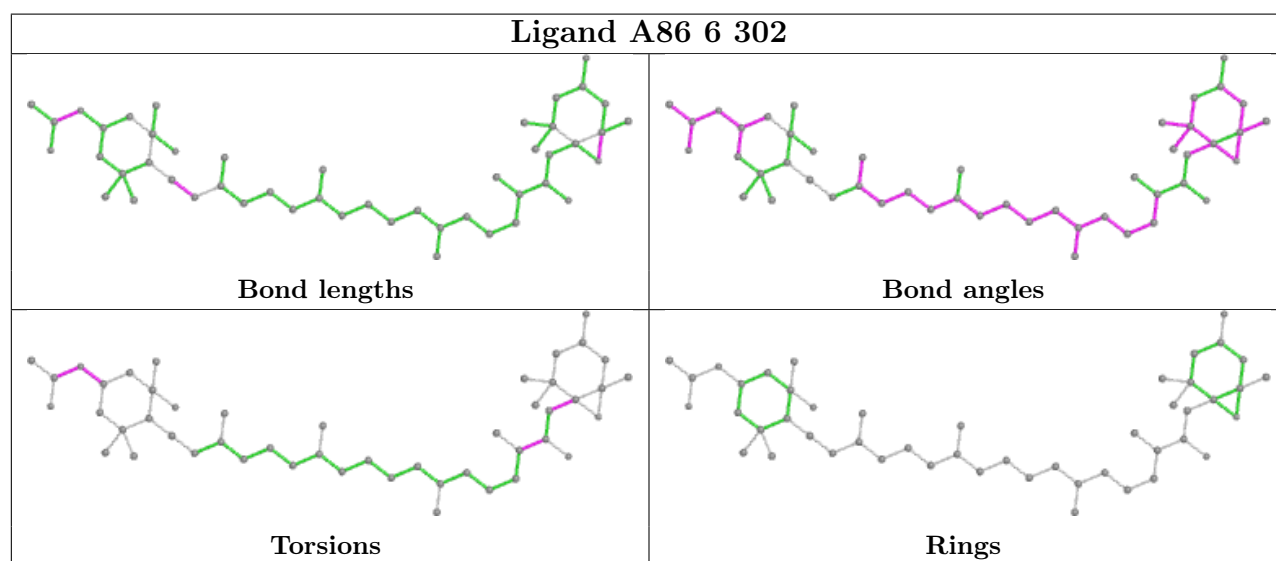
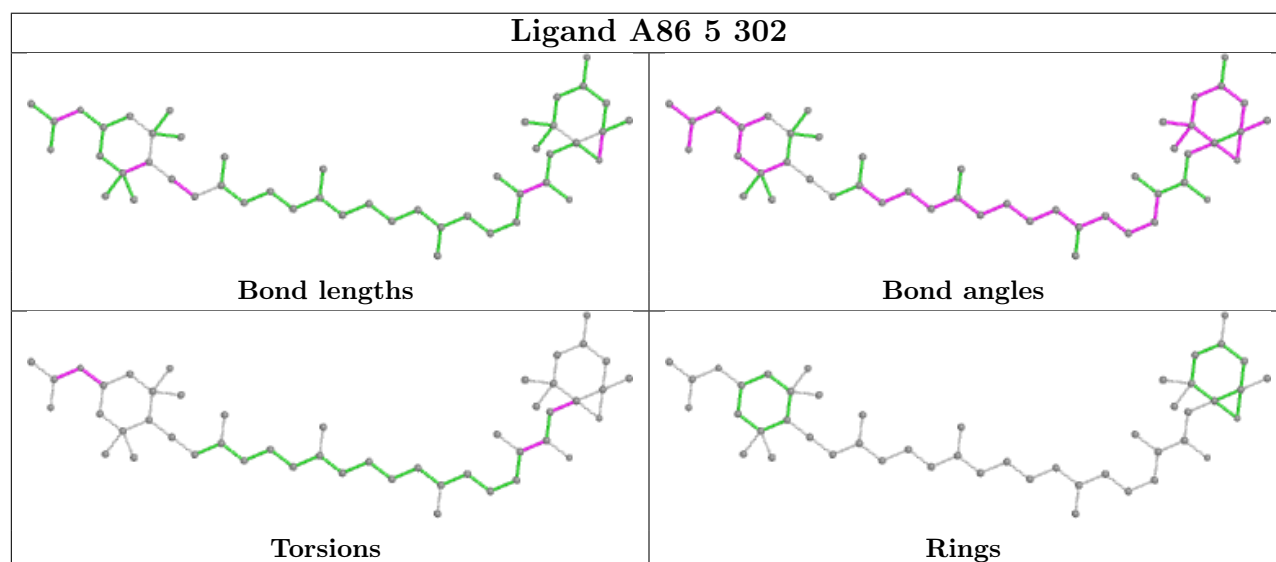
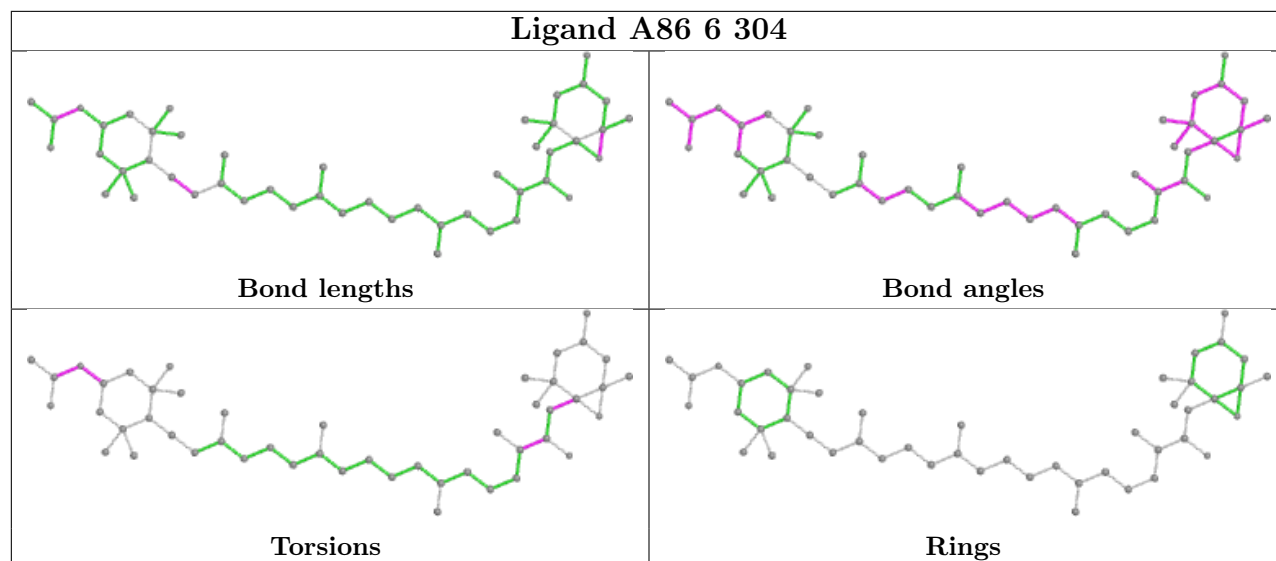


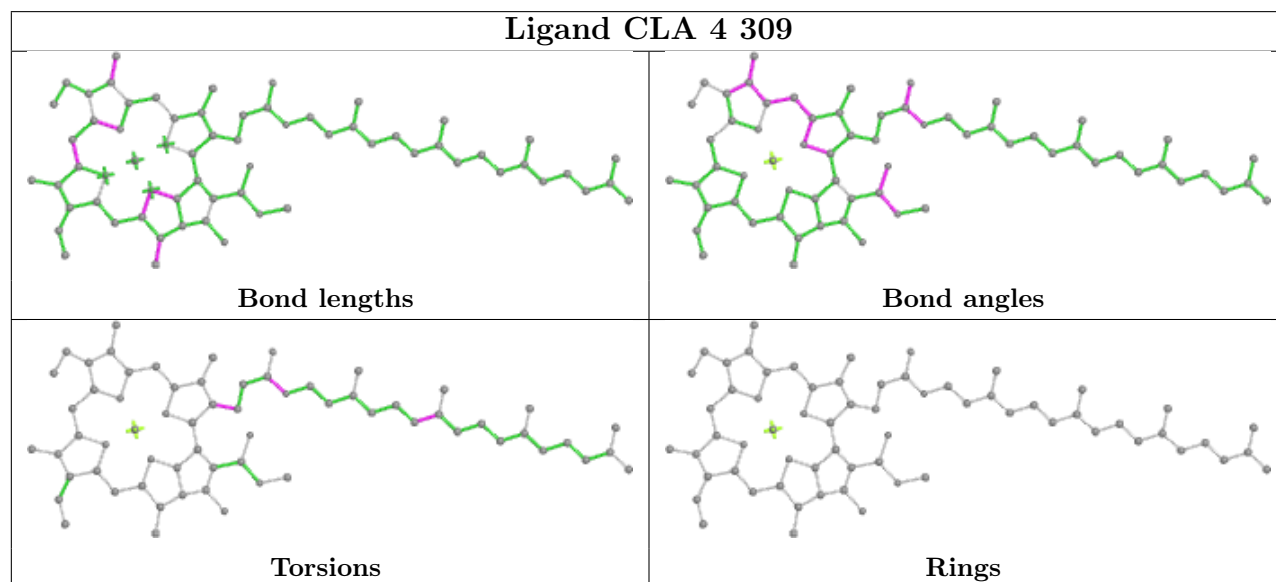
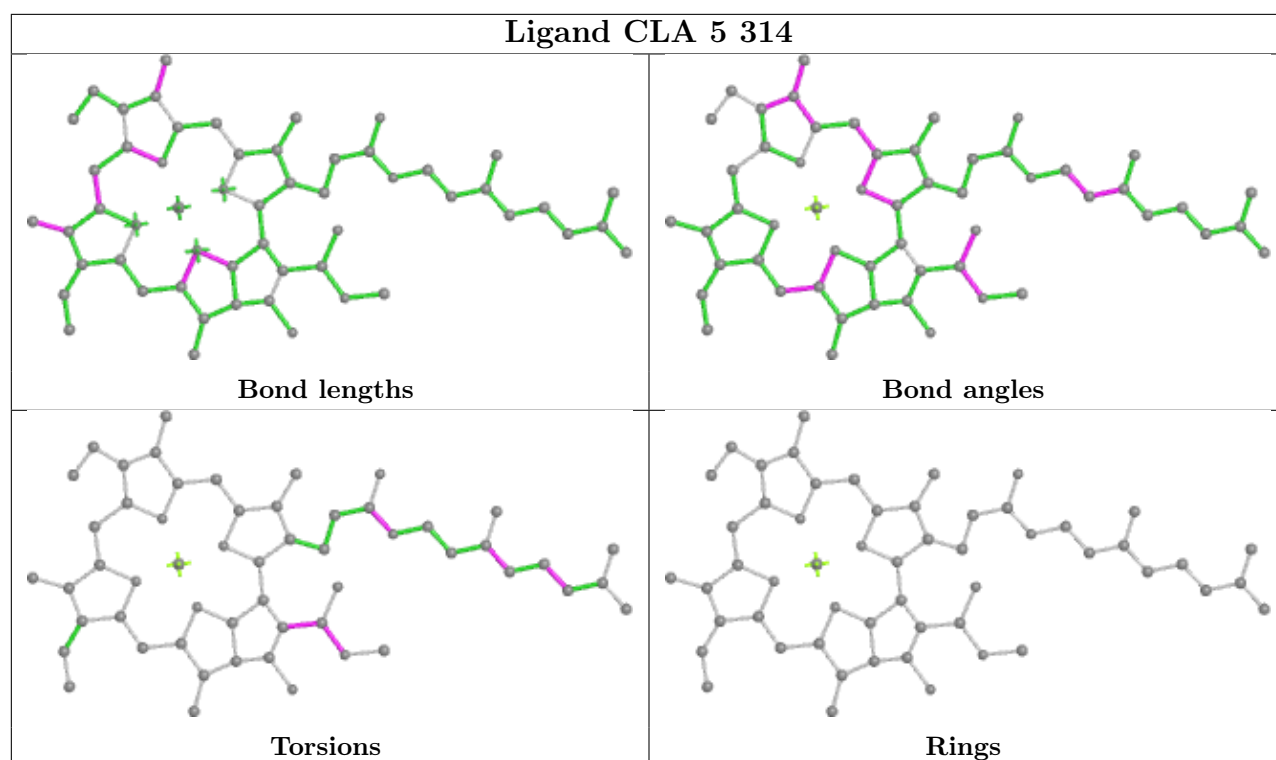


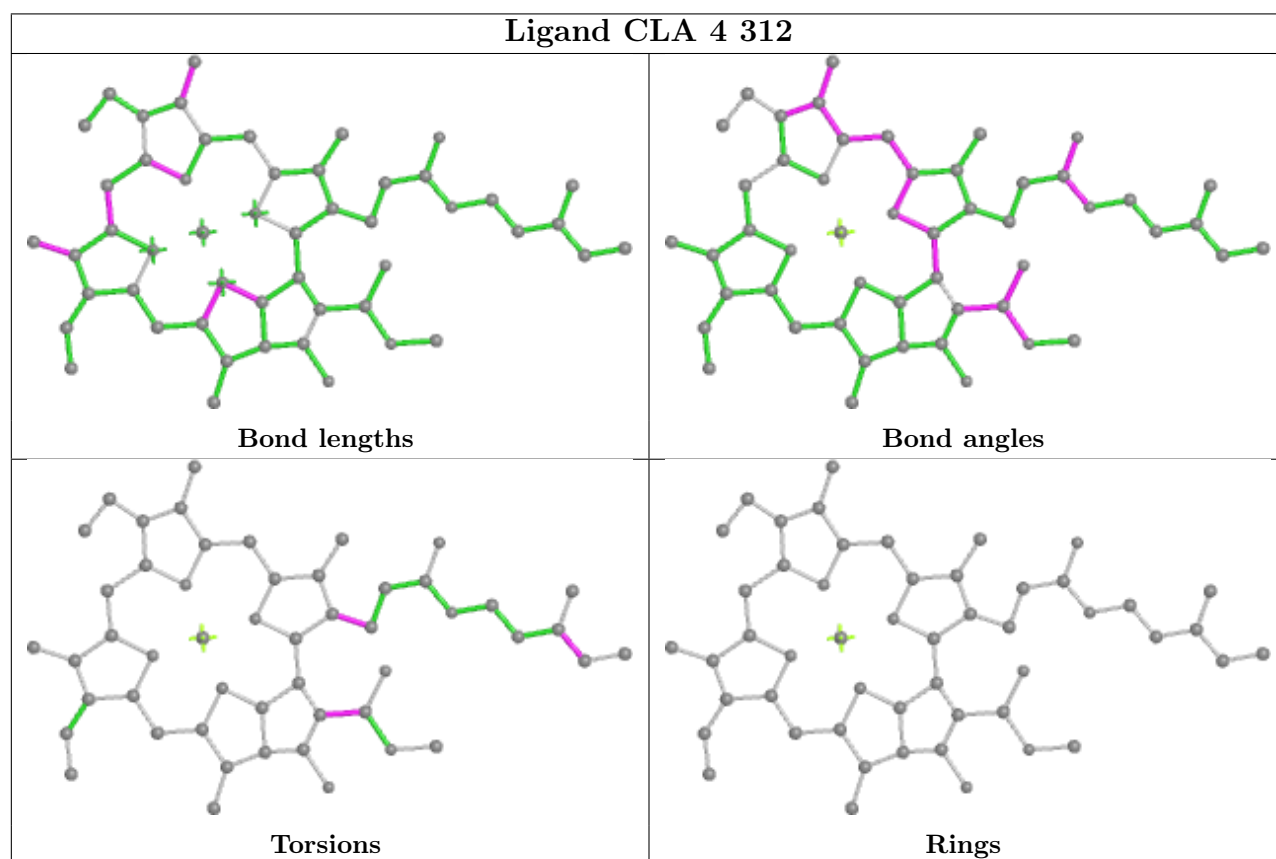
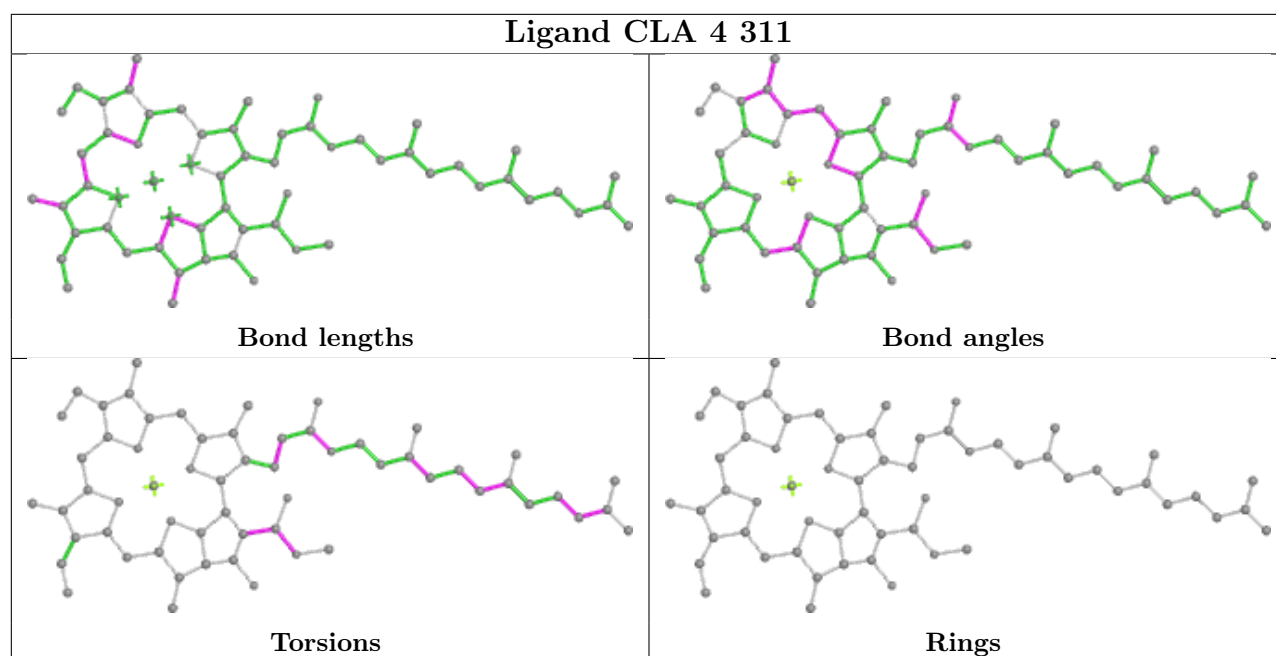


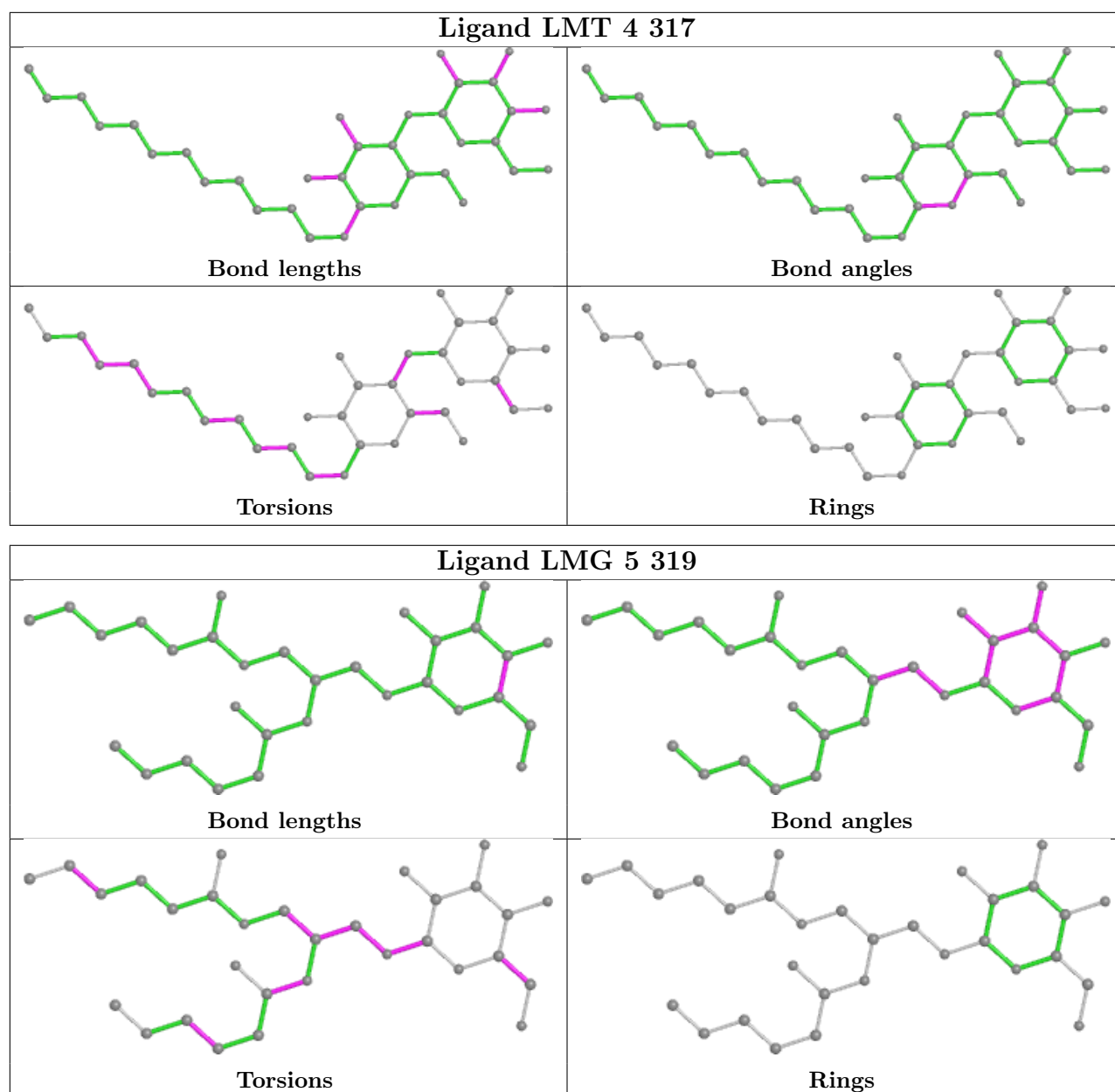












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

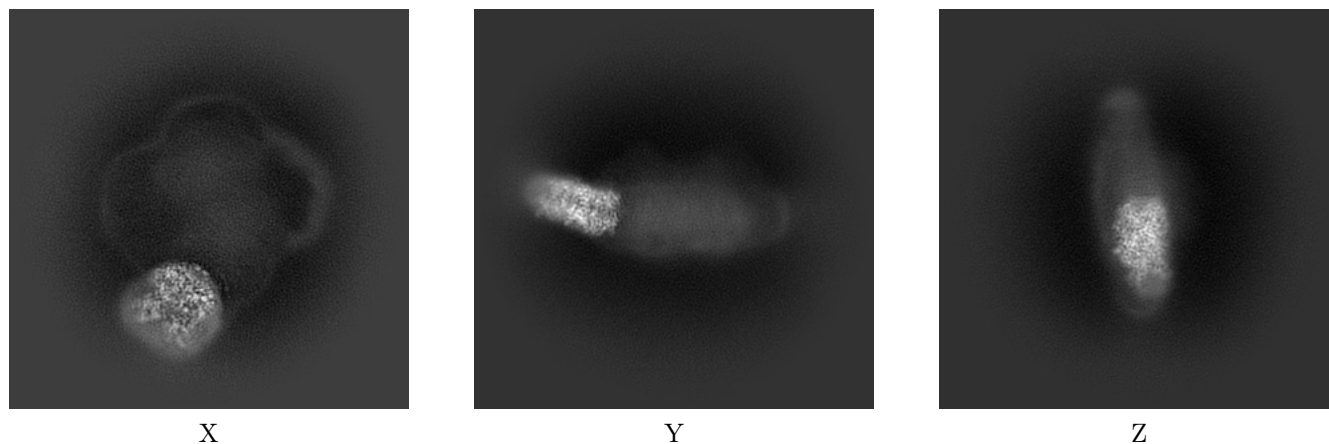
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-35899. These allow visual inspection of the internal detail of the map and identification of artifacts.

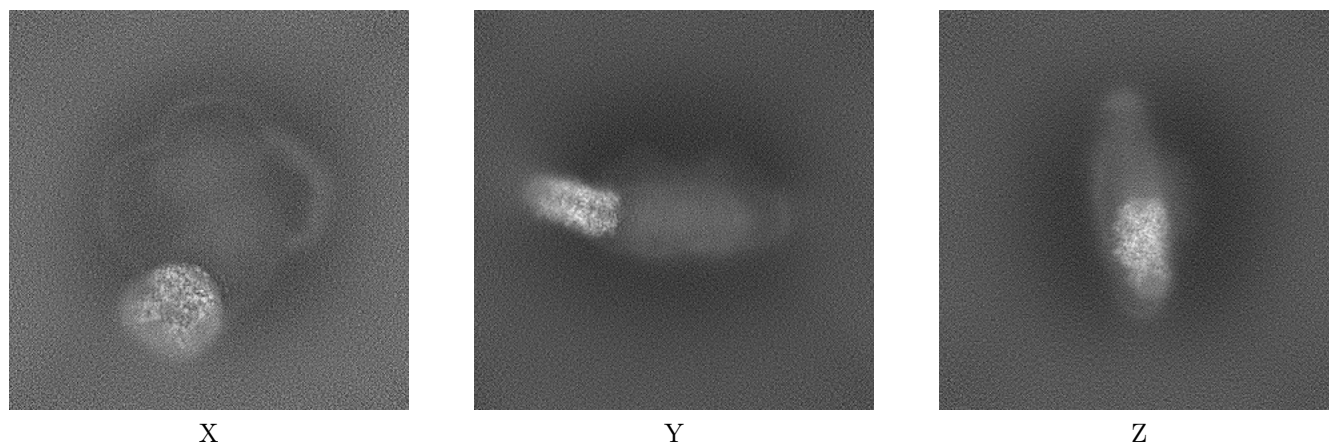
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



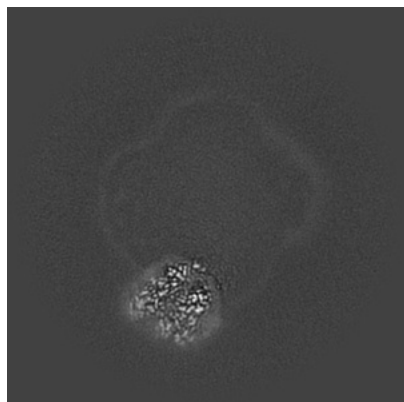
6.1.2 Raw map



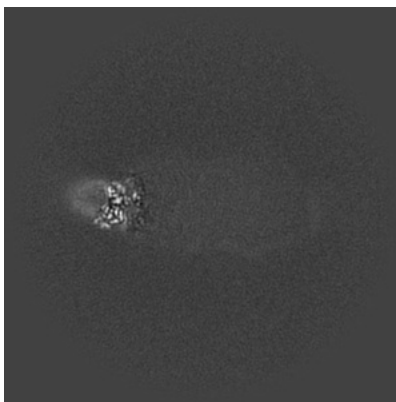
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

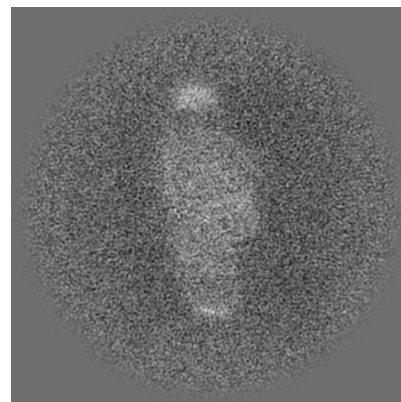
6.2.1 Primary map



X Index: 250

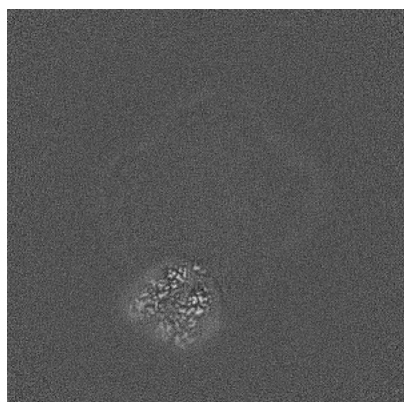


Y Index: 250

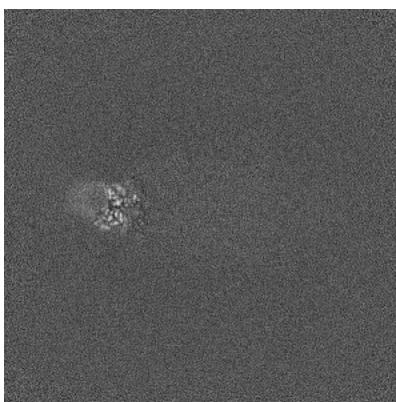


Z Index: 250

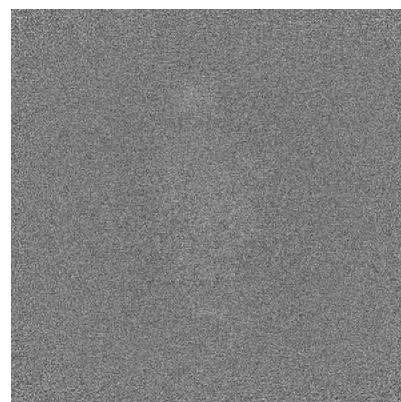
6.2.2 Raw map



X Index: 250



Y Index: 250

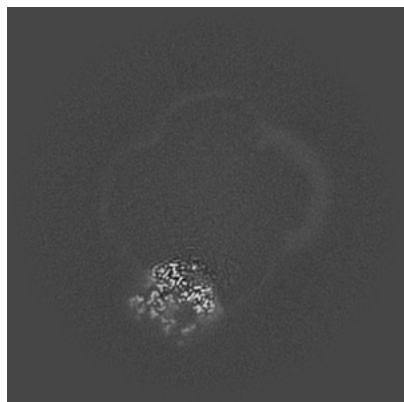


Z Index: 250

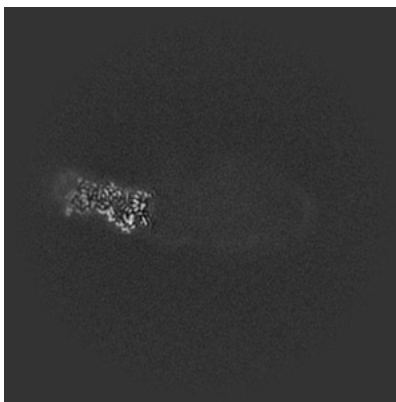
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

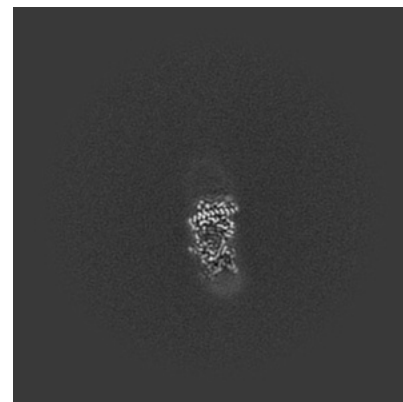
6.3.1 Primary map



X Index: 238

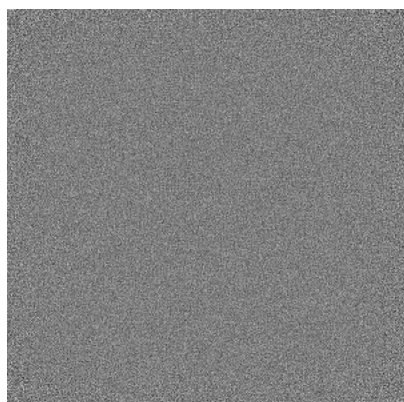


Y Index: 216

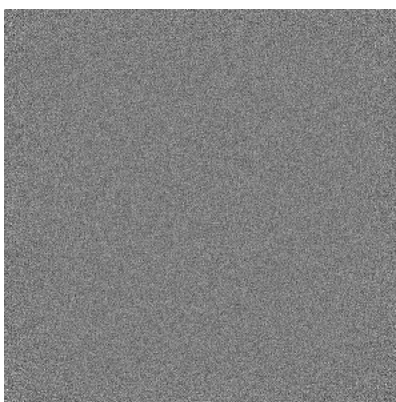


Z Index: 139

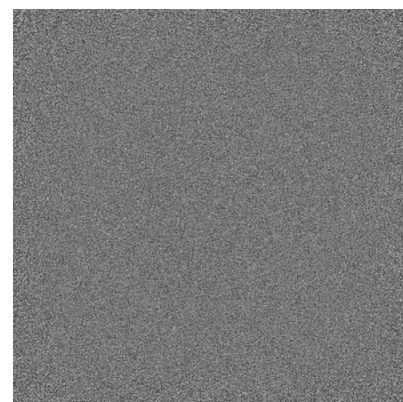
6.3.2 Raw map



X Index: 0



Y Index: 0

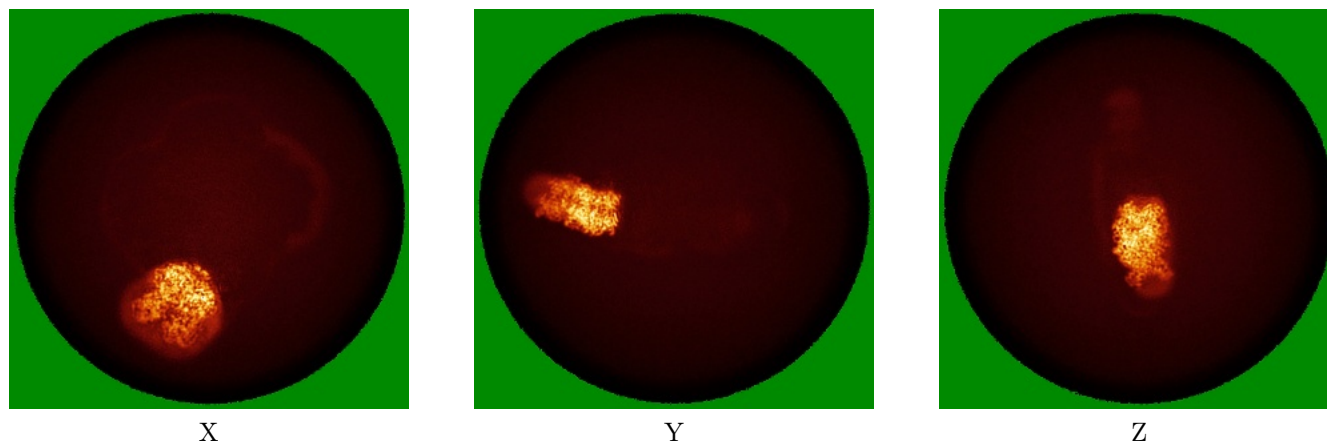


Z Index: 0

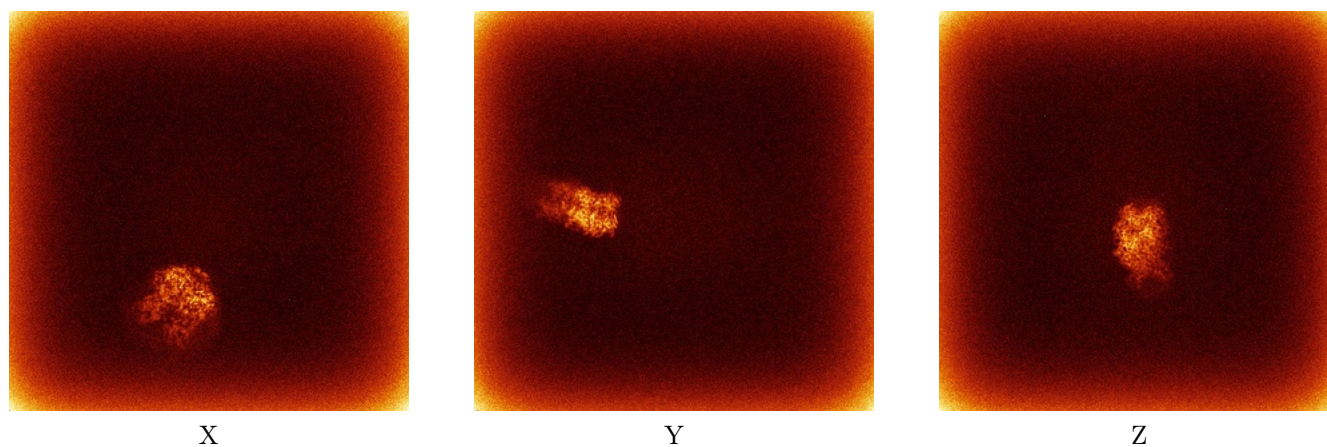
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



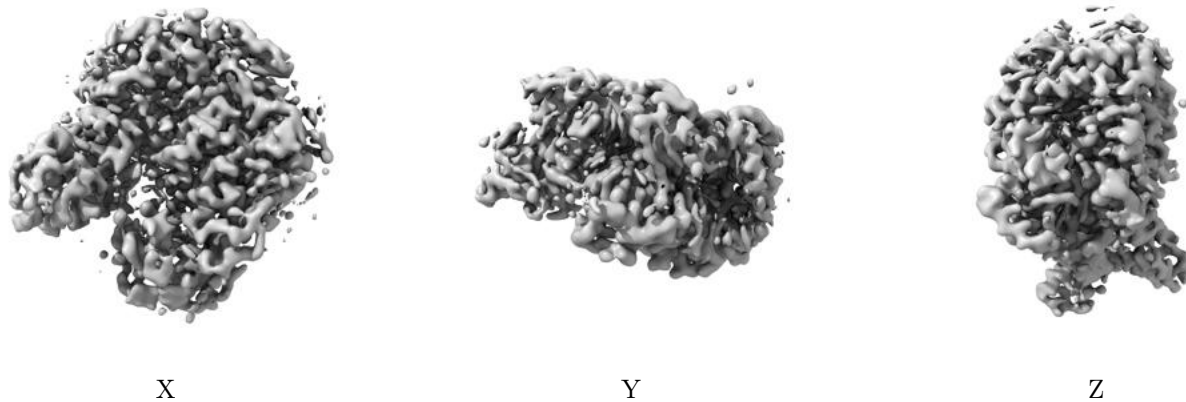
6.4.2 Raw map



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

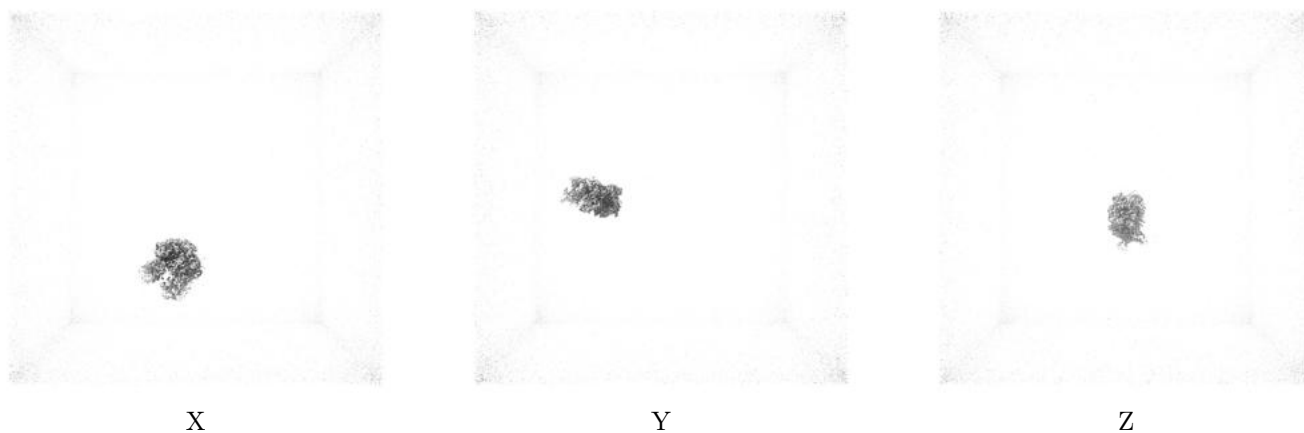
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.12. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

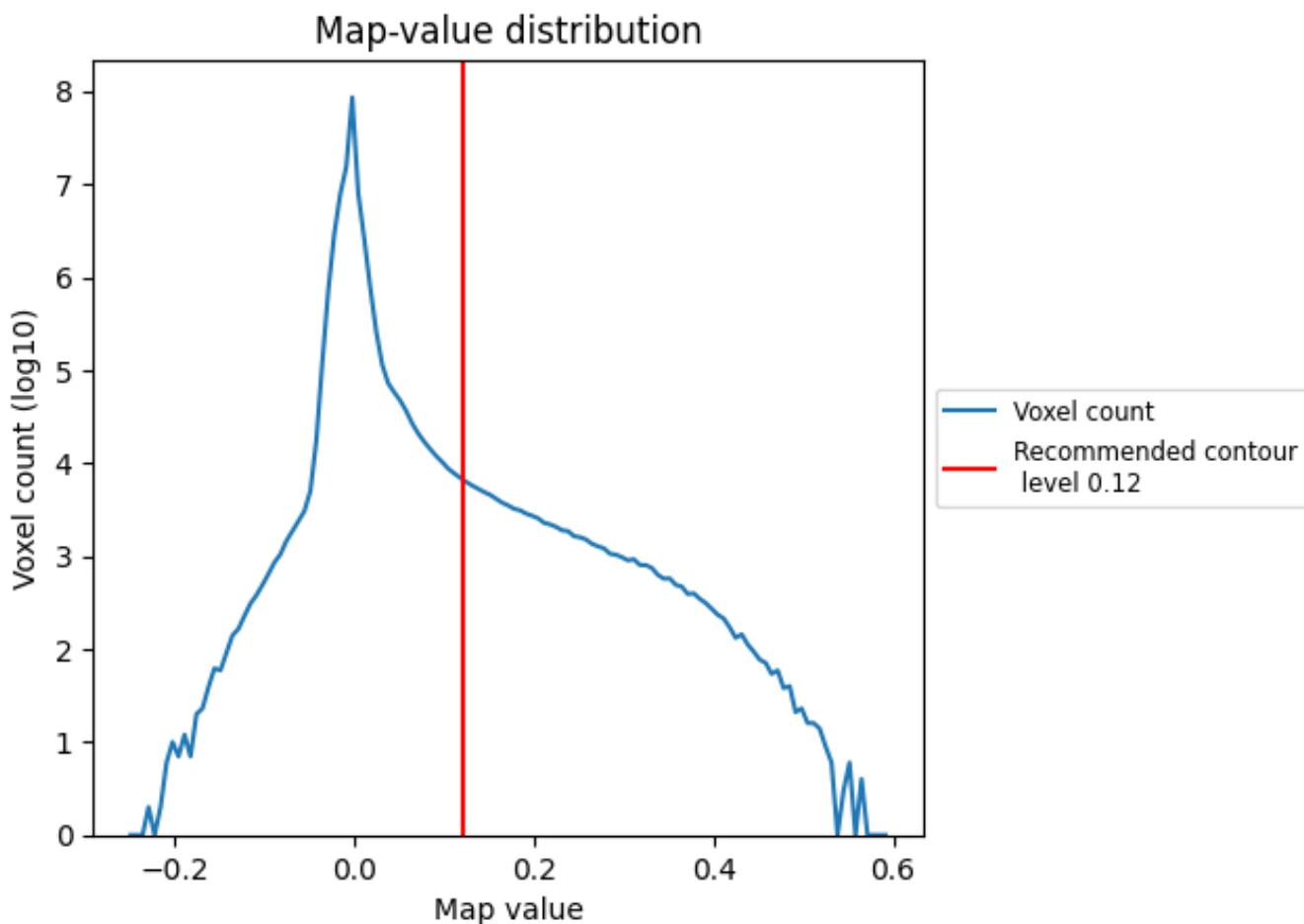
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

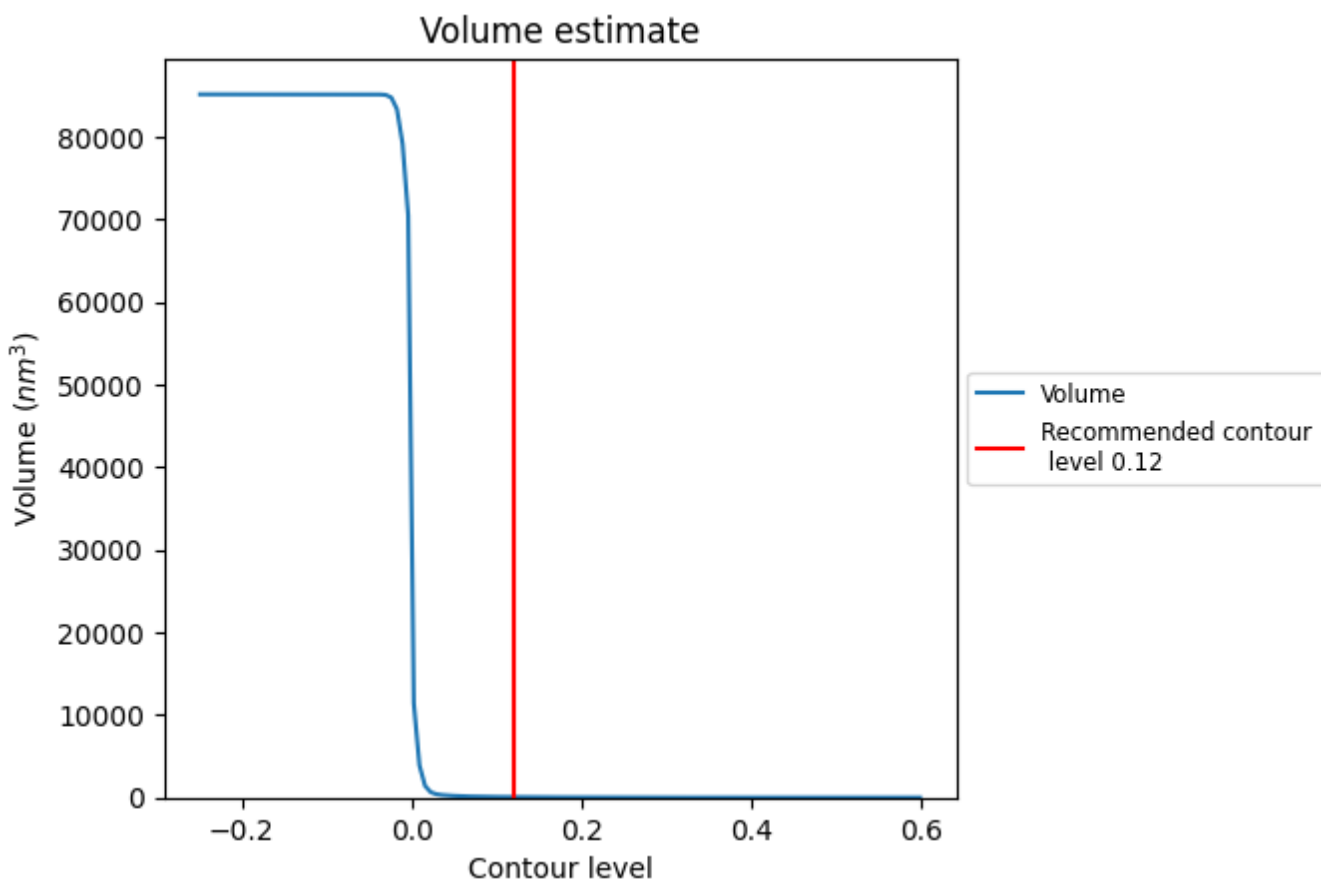
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

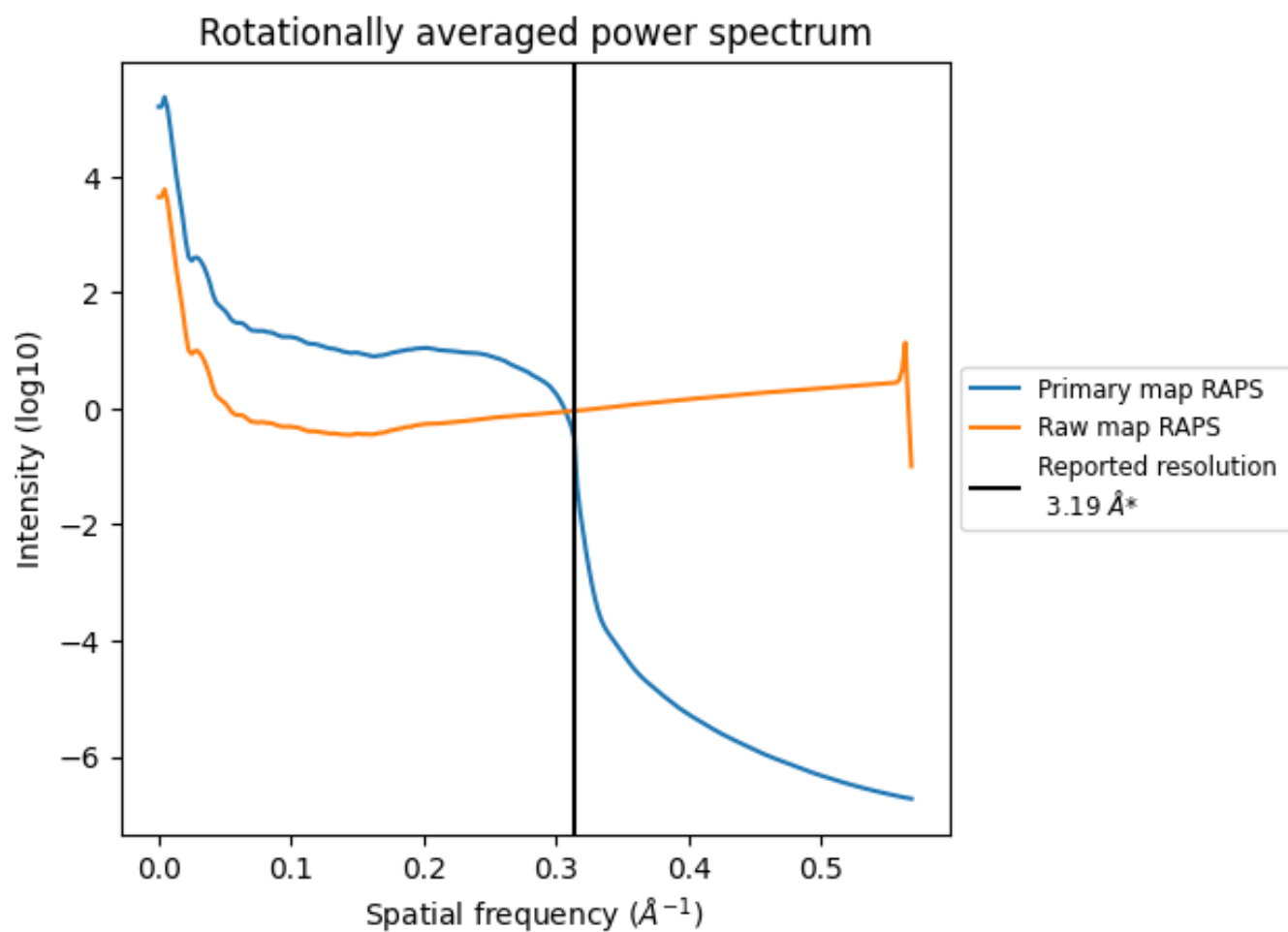
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 61 nm³; this corresponds to an approximate mass of 55 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)

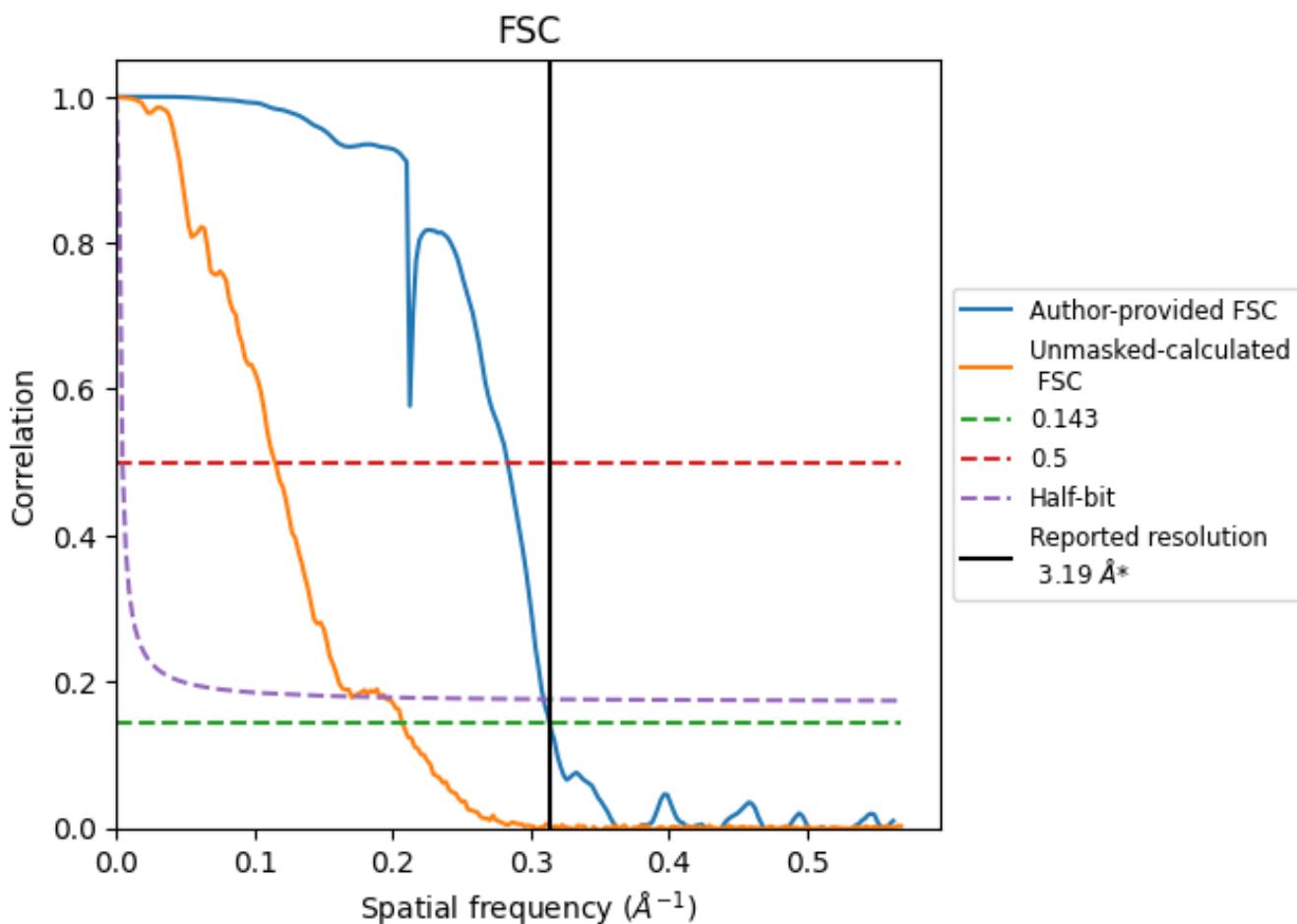


*Reported resolution corresponds to spatial frequency of 0.313 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.313 Å⁻¹

8.2 Resolution estimates [i](#)

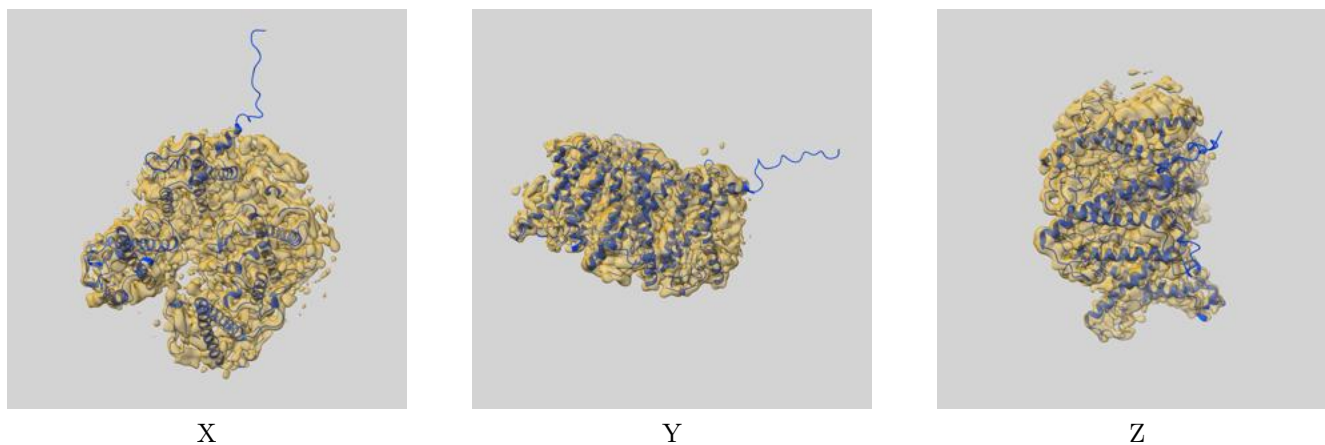
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.19	-	-
Author-provided FSC curve	3.19	3.53	3.23
Unmasked-calculated*	4.83	8.70	5.88

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.83 differs from the reported value 3.19 by more than 10 %

9 Map-model fit [i](#)

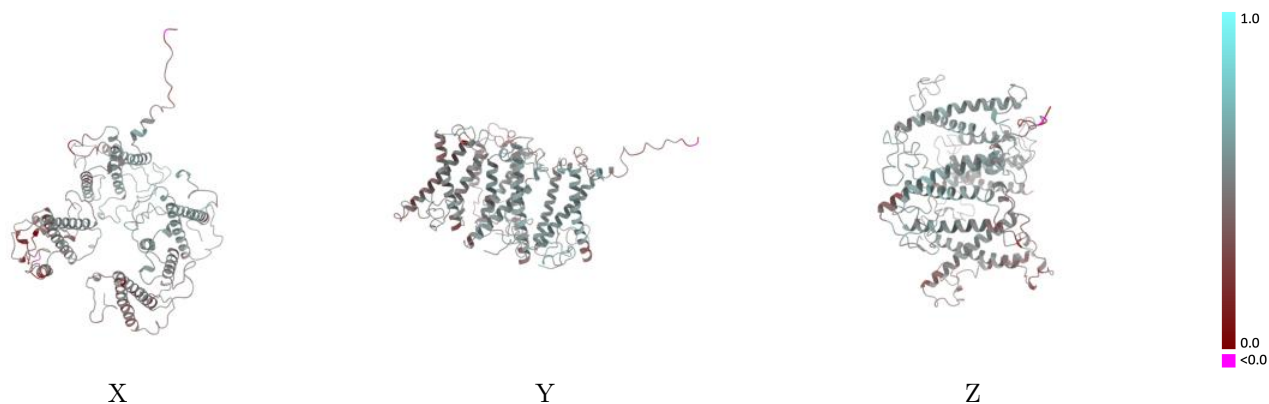
This section contains information regarding the fit between EMDB map EMD-35899 and PDB model 8J0D. Per-residue inclusion information can be found in section 3 on page 14.

9.1 Map-model overlay [i](#)



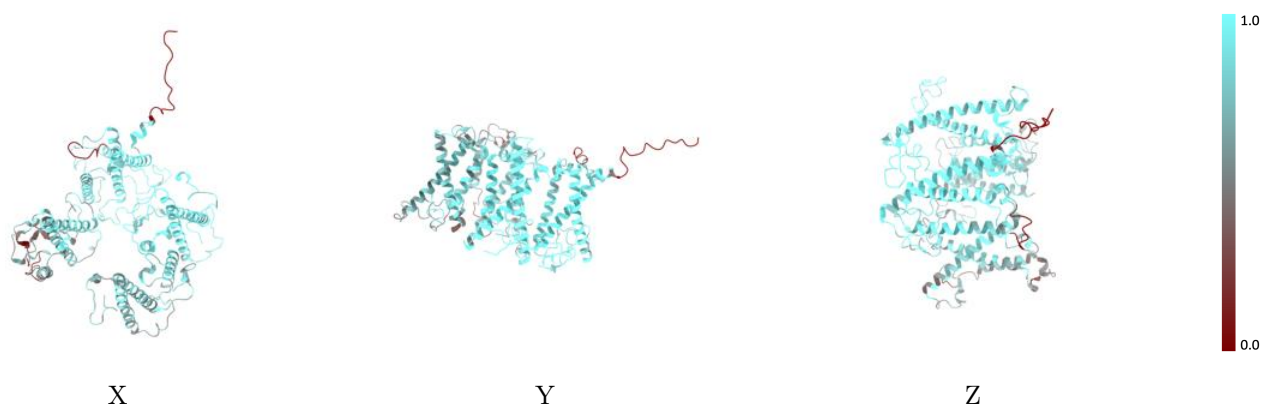
The images above show the 3D surface view of the map at the recommended contour level 0.12 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



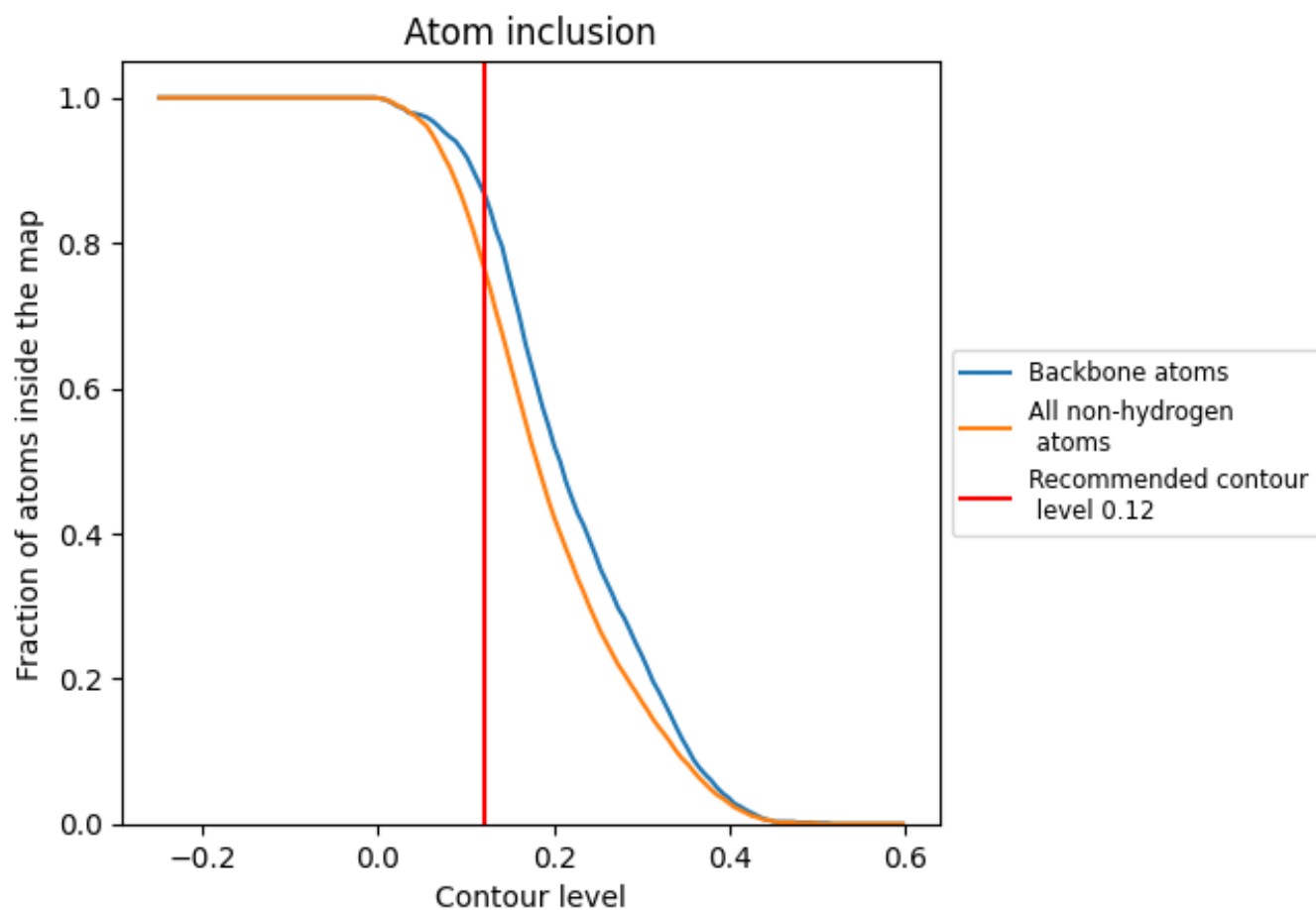
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.12).











9.4 Atom inclusion [i](#)



At the recommended contour level, 87% of all backbone atoms, 77% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.12) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7690	 0.4980
3	 0.8220	 0.5230
4	 0.9060	 0.5420
5	 0.6710	 0.4700
6	 0.6570	 0.4470

