



## Full wwPDB EM Validation Report ⓘ

Dec 11, 2023 – 02:56 PM JST

PDB ID : 8J5K  
EMDB ID : EMD-35987  
Title : Structural insights into photosystem II supercomplex and trimeric FCP antennae of a centric diatom *Cyclotella meneghiniana*  
Authors : Shen, L.L.; Li, Z.H.; Shen, J.R.; Wang, W.D.  
Deposited on : 2023-04-23  
Resolution : 2.93 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

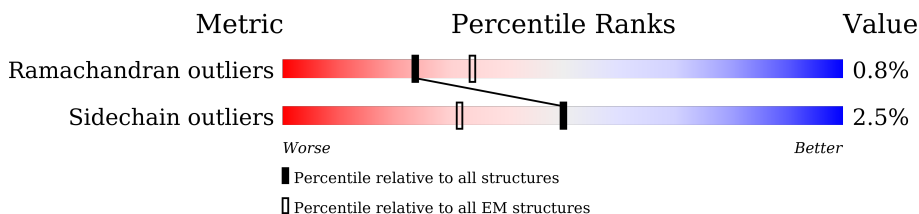
EMDB validation analysis : 0.0.1.dev70  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal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

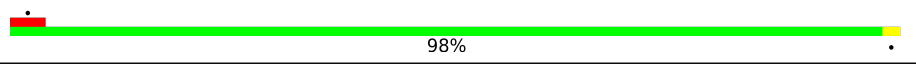
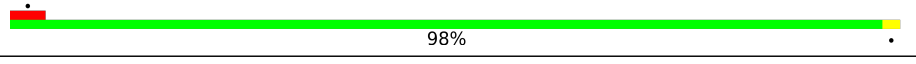
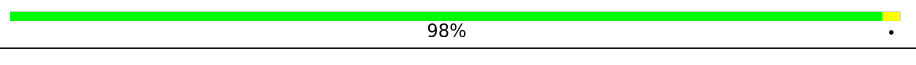
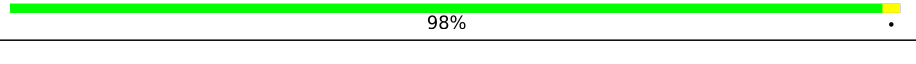
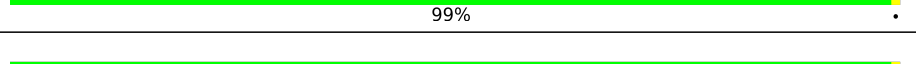
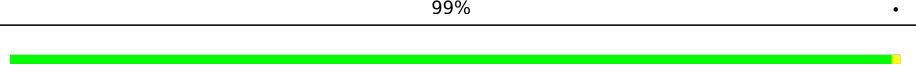
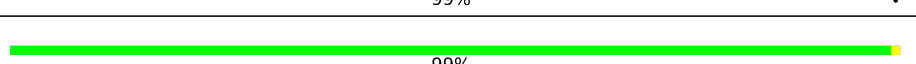
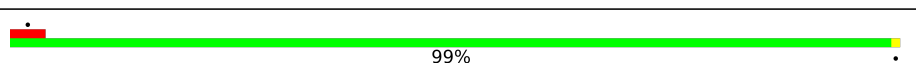

The reported resolution of this entry is 2.93 Å.

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.



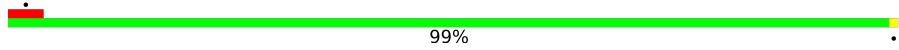


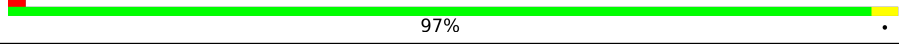
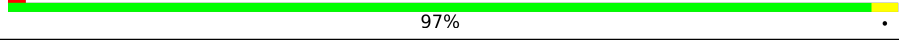
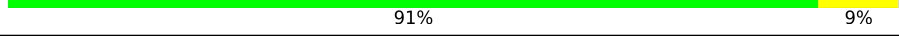
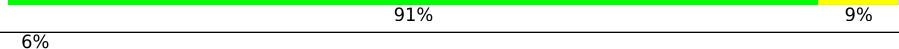
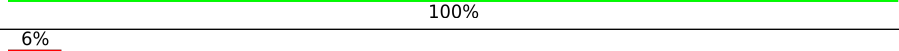
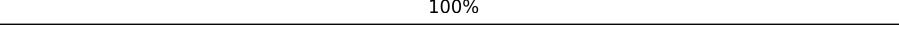
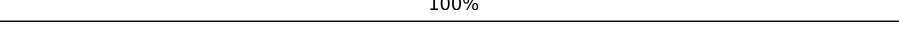
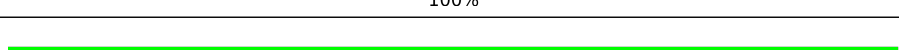
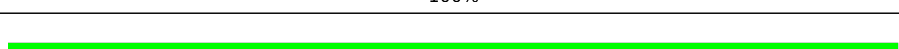
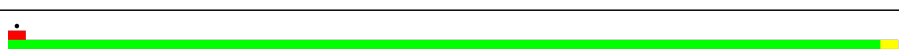
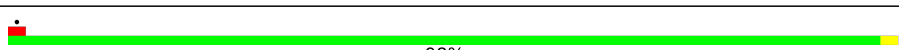
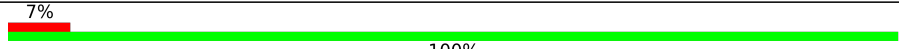

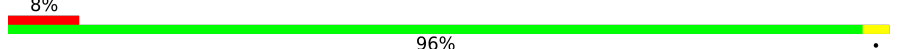
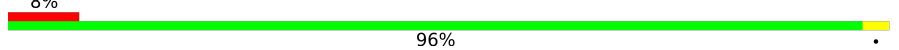


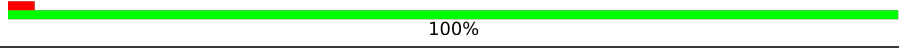
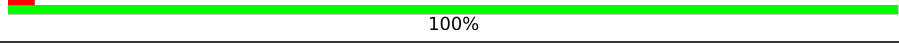
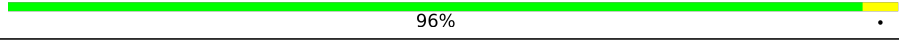
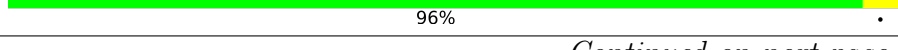

Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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  $\geq 3$ , 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	A	333	 98%
1	a	333	 98%
2	B	481	 98%
2	b	481	 98%
3	C	450	 99%
3	c	450	 99%
4	D	340	 99%
4	d	340	 99%
5	E	75	 99%

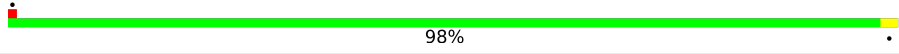
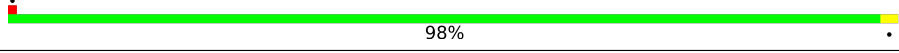
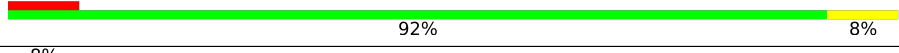
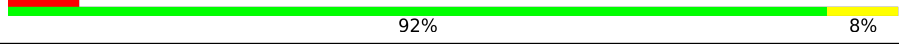
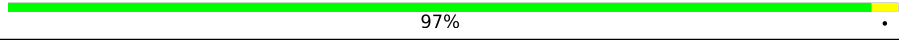
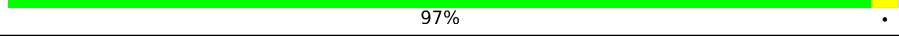
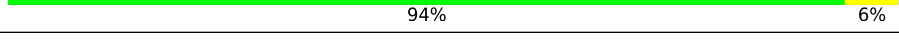
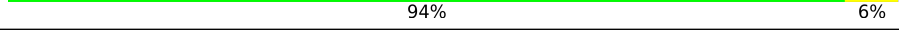
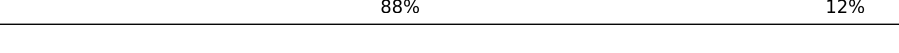
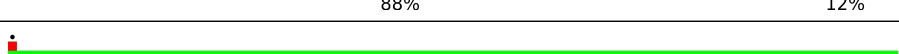
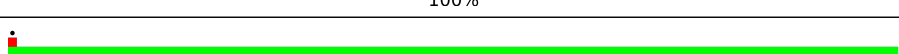
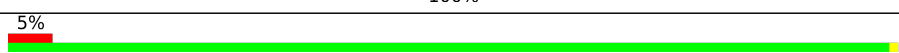
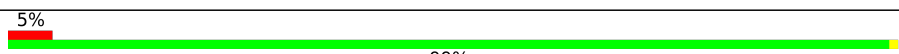
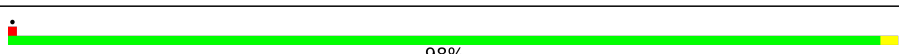
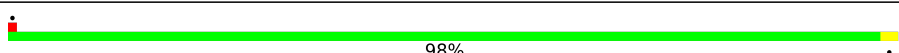
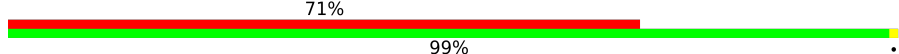
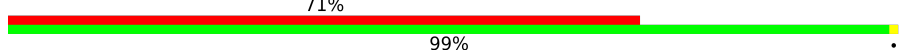

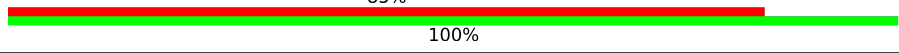
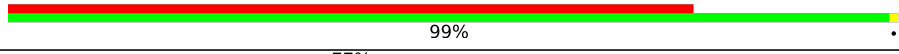
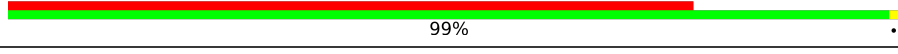

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Mol	Chain	Length	Quality of chain
5	e	75	 99%
6	F	31	 87% 13%
6	f	31	 87% 13%
7	H	65	 97%
7	h	65	 97%
8	I	34	 91% 9%
8	i	34	 91% 9%
9	J	34	 6% 100%
9	j	34	 6% 100%
10	K	37	 100%
10	k	37	 100%
11	L	37	 100%
11	l	37	 100%
12	M	41	 98%
12	m	41	 98%
13	N	30	 7% 100%
13	n	30	 10% 100%
14	O	248	 8% 96%
14	o	248	 8% 96%
15	Q	145	 31% 89% 8%
15	q	145	 33% 89% 8%
16	T	29	 100%
16	t	29	 100%
17	U	92	 96%
17	u	92	 96%

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Mol	Chain	Length	Quality of chain
18	V	136	 98%
18	v	136	 98%
19	W	50	 8% 92% 8%
19	w	50	 8% 92% 8%
20	X	34	 97%
20	x	34	 97%
21	Y	33	 94% 6%
21	y	33	 94% 6%
22	Z	59	 88% 12%
22	z	59	 88% 12%
23	0	169	 100%
23	5	169	 100%
24	2	164	 5% 99%
24	7	164	 5% 99%
25	1	164	 98%
25	6	164	 98%
26	P	214	 71% 99%
26	p	214	 71% 99%
27	4	153	 85% 100%
27	9	153	 85% 100%
28	3	163	 77% 99%
28	8	163	 77% 99%

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
31	CLA	0	304	X	-	-	-
31	CLA	0	305	X	-	-	-
31	CLA	0	306	X	-	-	-
31	CLA	0	307	X	-	-	-
31	CLA	0	308	X	-	-	-
31	CLA	0	309	X	-	-	-
31	CLA	0	310	X	-	-	-
31	CLA	0	311	X	-	-	-
31	CLA	0	312	X	-	-	-
31	CLA	0	313	X	-	-	-
31	CLA	0	314	X	-	-	-
31	CLA	1	201	X	-	-	-
31	CLA	1	205	X	-	-	-
31	CLA	1	206	X	-	-	-
31	CLA	1	207	X	-	-	-
31	CLA	1	208	X	-	-	-
31	CLA	1	209	X	-	-	-
31	CLA	1	210	X	-	-	-
31	CLA	1	211	X	-	-	-
31	CLA	1	212	X	-	-	-
31	CLA	1	213	X	-	-	-
31	CLA	1	214	X	-	-	-
31	CLA	1	215	X	-	-	-
31	CLA	1	216	X	-	-	-
31	CLA	2	305	X	-	-	-
31	CLA	2	306	X	-	-	-
31	CLA	2	307	X	-	-	-
31	CLA	2	308	X	-	-	-
31	CLA	2	309	X	-	-	-
31	CLA	2	310	X	-	-	-
31	CLA	2	311	X	-	-	-
31	CLA	2	312	X	-	-	-
31	CLA	2	313	X	-	-	-
31	CLA	2	314	X	-	-	-
31	CLA	2	315	X	-	-	-
31	CLA	2	316	X	-	-	-
31	CLA	3	304	X	-	-	-
31	CLA	3	305	X	-	-	-
31	CLA	3	306	X	-	-	-
31	CLA	3	307	X	-	-	-
31	CLA	3	308	X	-	-	-
31	CLA	3	309	X	-	-	-
31	CLA	3	310	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
31	CLA	3	311	X	-	-	-
31	CLA	3	312	X	-	-	-
31	CLA	3	313	X	-	-	-
31	CLA	3	314	X	-	-	-
31	CLA	4	204	X	-	-	-
31	CLA	4	205	X	-	-	-
31	CLA	4	206	X	-	-	-
31	CLA	4	207	X	-	-	-
31	CLA	4	208	X	-	-	-
31	CLA	4	209	X	-	-	-
31	CLA	4	210	X	-	-	-
31	CLA	4	211	X	-	-	-
31	CLA	4	212	X	-	-	-
31	CLA	4	213	X	-	-	-
31	CLA	5	304	X	-	-	-
31	CLA	5	305	X	-	-	-
31	CLA	5	306	X	-	-	-
31	CLA	5	307	X	-	-	-
31	CLA	5	308	X	-	-	-
31	CLA	5	309	X	-	-	-
31	CLA	5	310	X	-	-	-
31	CLA	5	311	X	-	-	-
31	CLA	5	312	X	-	-	-
31	CLA	5	313	X	-	-	-
31	CLA	5	314	X	-	-	-
31	CLA	6	201	X	-	-	-
31	CLA	6	205	X	-	-	-
31	CLA	6	206	X	-	-	-
31	CLA	6	207	X	-	-	-
31	CLA	6	208	X	-	-	-
31	CLA	6	209	X	-	-	-
31	CLA	6	210	X	-	-	-
31	CLA	6	211	X	-	-	-
31	CLA	6	212	X	-	-	-
31	CLA	6	213	X	-	-	-
31	CLA	6	214	X	-	-	-
31	CLA	6	215	X	-	-	-
31	CLA	6	216	X	-	-	-
31	CLA	7	305	X	-	-	-
31	CLA	7	306	X	-	-	-
31	CLA	7	307	X	-	-	-
31	CLA	7	308	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
31	CLA	7	309	X	-	-	-
31	CLA	7	310	X	-	-	-
31	CLA	7	311	X	-	-	-
31	CLA	7	312	X	-	-	-
31	CLA	7	313	X	-	-	-
31	CLA	7	314	X	-	-	-
31	CLA	7	315	X	-	-	-
31	CLA	7	316	X	-	-	-
31	CLA	8	304	X	-	-	-
31	CLA	8	305	X	-	-	-
31	CLA	8	306	X	-	-	-
31	CLA	8	307	X	-	-	-
31	CLA	8	308	X	-	-	-
31	CLA	8	309	X	-	-	-
31	CLA	8	310	X	-	-	-
31	CLA	8	311	X	-	-	-
31	CLA	8	312	X	-	-	-
31	CLA	8	313	X	-	-	-
31	CLA	8	314	X	-	-	-
31	CLA	9	204	X	-	-	-
31	CLA	9	205	X	-	-	-
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31	CLA	B	502	X	-	-	-
31	CLA	B	503	X	-	-	-
31	CLA	B	504	X	-	-	-
31	CLA	B	505	X	-	-	-
31	CLA	B	506	X	-	-	-
31	CLA	B	507	X	-	-	-
31	CLA	B	508	X	-	-	-
31	CLA	B	509	X	-	-	-
31	CLA	B	510	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
31	CLA	B	511	X	-	-	-
31	CLA	B	512	X	-	-	-
31	CLA	B	513	X	-	-	-
31	CLA	B	514	X	-	-	-
31	CLA	B	515	X	-	-	-
31	CLA	B	516	X	-	-	-
31	CLA	C	502	X	-	-	-
31	CLA	C	503	X	-	-	-
31	CLA	C	504	X	-	-	-
31	CLA	C	505	X	-	-	-
31	CLA	C	506	X	-	-	-
31	CLA	C	507	X	-	-	-
31	CLA	C	508	X	-	-	-
31	CLA	C	509	X	-	-	-
31	CLA	C	510	X	-	-	-
31	CLA	C	511	X	-	-	-
31	CLA	C	512	X	-	-	-
31	CLA	C	513	X	-	-	-
31	CLA	C	514	X	-	-	-
31	CLA	D	401	X	-	-	-
31	CLA	D	403	X	-	-	-
31	CLA	D	404	X	-	-	-
31	CLA	P	601	X	-	-	-
31	CLA	P	602	X	-	-	-
31	CLA	P	603	X	-	-	-
31	CLA	P	604	X	-	-	-
31	CLA	P	605	X	-	-	-
31	CLA	P	606	X	-	-	-
31	CLA	P	607	X	-	-	-
31	CLA	P	608	X	-	-	-
31	CLA	P	609	X	-	-	-
31	CLA	W	202	X	-	-	-
31	CLA	Z	101	X	-	-	-
31	CLA	a	403	X	-	-	-
31	CLA	a	404	X	-	-	-
31	CLA	a	407	X	-	-	-
31	CLA	b	502	X	-	-	-
31	CLA	b	503	X	-	-	-
31	CLA	b	504	X	-	-	-
31	CLA	b	505	X	-	-	-
31	CLA	b	506	X	-	-	-
31	CLA	b	507	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
31	CLA	b	508	X	-	-	-
31	CLA	b	509	X	-	-	-
31	CLA	b	510	X	-	-	-
31	CLA	b	511	X	-	-	-
31	CLA	b	512	X	-	-	-
31	CLA	b	513	X	-	-	-
31	CLA	b	514	X	-	-	-
31	CLA	b	515	X	-	-	-
31	CLA	b	516	X	-	-	-
31	CLA	b	517	X	-	-	-
31	CLA	c	502	X	-	-	-
31	CLA	c	503	X	-	-	-
31	CLA	c	504	X	-	-	-
31	CLA	c	505	X	-	-	-
31	CLA	c	506	X	-	-	-
31	CLA	c	507	X	-	-	-
31	CLA	c	508	X	-	-	-
31	CLA	c	509	X	-	-	-
31	CLA	c	510	X	-	-	-
31	CLA	c	511	X	-	-	-
31	CLA	c	512	X	-	-	-
31	CLA	c	513	X	-	-	-
31	CLA	c	514	X	-	-	-
31	CLA	d	401	X	-	-	-
31	CLA	d	403	X	-	-	-
31	CLA	d	404	X	-	-	-
31	CLA	p	601	X	-	-	-
31	CLA	p	602	X	-	-	-
31	CLA	p	603	X	-	-	-
31	CLA	p	604	X	-	-	-
31	CLA	p	605	X	-	-	-
31	CLA	p	606	X	-	-	-
31	CLA	p	607	X	-	-	-
31	CLA	p	608	X	-	-	-
31	CLA	p	609	X	-	-	-
31	CLA	w	202	X	-	-	-
31	CLA	z	101	X	-	-	-

## 2 Entry composition [i](#)

There are 44 unique types of molecules in this entry. The entry contains 71446 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 PsbA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	333	Total	C	N	O	S	0	0
			2530	1656	421	439	14		
1	a	333	Total	C	N	O	S	0	0
			2530	1656	421	439	14		

- Molecule 2 is a protein called PsbB.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	481	Total	C	N	O	S	0	0
			3748	2456	635	646	11		
2	b	481	Total	C	N	O	S	0	0
			3748	2456	635	646	11		

- Molecule 3 is a protein called PsbC.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	450	Total	C	N	O	S	0	0
			3437	2252	579	595	11		
3	c	450	Total	C	N	O	S	0	0
			3437	2252	579	595	11		

- Molecule 4 is a protein called PsbD.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	340	Total	C	N	O	S	0	0
			2667	1765	437	455	10		
4	d	340	Total	C	N	O	S	0	0
			2667	1765	437	455	10		

- Molecule 5 is a protein called PsbE.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E	75	Total	C	N	O	0	0
			602	392	101	109		
5	e	75	Total	C	N	O	0	0
			602	392	101	109		

- Molecule 6 is a protein called PsbF.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	F	31	Total	C	N	O	0	0
			242	166	41	35		
6	f	31	Total	C	N	O	0	0
			242	166	41	35		

- Molecule 7 is a protein called PsbH.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	65	Total	C	N	O	S	0	0
			499	331	82	85	1		
7	h	65	Total	C	N	O	S	0	0
			499	331	82	85	1		

- Molecule 8 is a protein called PsbI.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	34	Total	C	N	O	S	0	0
			266	179	40	46	1		
8	i	34	Total	C	N	O	S	0	0
			266	179	40	46	1		

- Molecule 9 is a protein called PsbJ.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	J	34	Total	C	N	O	0	0
			247	167	38	42		
9	j	34	Total	C	N	O	0	0
			247	167	38	42		

- Molecule 10 is a protein called PsbK.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	K	37	Total	C	N	O	0	0
			294	205	44	45		

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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
10	k	37	294	205	44	45	0	0

- Molecule 11 is a protein called PsbL.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
11	L	37	294	197	46	51	0	0
11	l	37	294	197	46	51	0	0

- Molecule 12 is a protein called PsbM.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
12	M	41	295	193	49	53	0	0
12	m	41	295	193	49	53	0	0

- Molecule 13 is a protein called Psb34.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
13	N	30	150	90	30	30	0	0
13	n	30	150	90	30	30	0	0

- Molecule 14 is a protein called PsbO.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	O	248	1824	1151	304	362	7	0	0
14	o	248	1824	1151	304	362	7	0	0

- Molecule 15 is a protein called PsbQ'.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
15	Q	145	1050	654	182	214	0	0
15	q	145	1050	654	182	214	0	0



- Molecule 16 is a protein called PsbT.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	T	29	Total	C	N	O	S	0	0
			234	164	32	36	2		
16	t	29	Total	C	N	O	S	0	0
			234	164	32	36	2		

- Molecule 17 is a protein called PsbU.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	U	92	Total	C	N	O	S	0	0
			678	436	111	130	1		
17	u	92	Total	C	N	O	S	0	0
			678	436	111	130	1		

- Molecule 18 is a protein called PsbV.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	V	136	Total	C	N	O	S	0	0
			979	612	169	194	4		
18	v	136	Total	C	N	O	S	0	0
			979	612	169	194	4		

- Molecule 19 is a protein called PsbW.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	W	50	Total	C	N	O	S	0	0
			338	211	56	68	3		
19	w	50	Total	C	N	O	S	0	0
			338	211	56	68	3		

- Molecule 20 is a protein called PsbX.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	X	34	Total	C	N	O	S	0	0
			233	150	39	43	1		
20	x	34	Total	C	N	O	S	0	0
			233	150	39	43	1		

- Molecule 21 is a protein called PsbY.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	Y	33	Total	C	N	O	0	0
			216	137	39	40		
21	y	33	Total	C	N	O	0	0
			216	137	39	40		

- Molecule 22 is a protein called PsbZ.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	Z	59	Total	C	N	O	S	0	0
			413	270	65	77	1		
22	z	59	Total	C	N	O	S	0	0
			413	270	65	77	1		

- Molecule 23 is a protein called FCPII-G, fucoxanthin chlorophyll a/c binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	5	169	Total	C	N	O	S	0	0
			1280	827	211	239	3		
23	0	169	Total	C	N	O	S	0	0
			1280	827	211	239	3		

- Molecule 24 is a protein called FCPII-H2, fucoxanthin chlorophyll a/c binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	7	164	Total	C	N	O	S	0	0
			1222	808	198	212	4		
24	2	164	Total	C	N	O	S	0	0
			1222	808	198	212	4		

- Molecule 25 is a protein called FCPII-H1, fucoxanthin chlorophyll a/c binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	6	164	Total	C	N	O	S	0	0
			1209	796	210	201	2		
25	1	164	Total	C	N	O	S	0	0
			1209	796	210	201	2		

- Molecule 26 is a protein called FCPII-I, fucoxanthin chlorophyll a/c binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	p	214	Total	C	N	O	S	0	0
			1265	789	230	245	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	P	214	1265	789	230	245	1	0	0

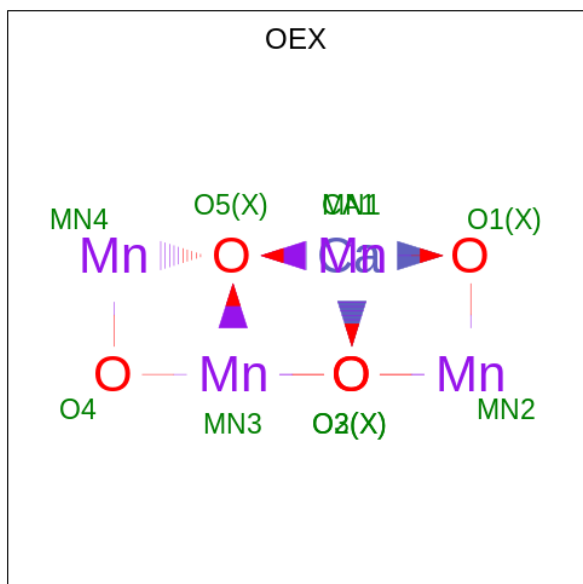
- Molecule 27 is a protein called FCPII-K, fucoxanthin chlorophyll a/c binding protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
27	4	153	765	459	153	153	0	0
27	9	153	765	459	153	153	0	0

- Molecule 28 is a protein called FCPII-J, fucoxanthin chlorophyll a/c binding protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
28	3	163	992	616	192	184	0	0
28	8	163	992	616	192	184	0	0

- Molecule 29 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula:  $\text{CaMn}_4\text{O}_5$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
			Total	Ca	Mn	O	
29	A	1	10	1	4	5	0

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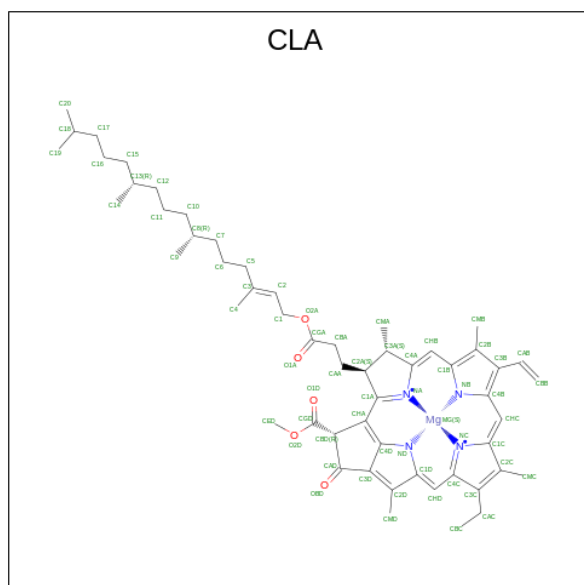
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Mol	Chain	Residues	Atoms				AltConf
			Total	Ca	Mn	O	
29	a	1	10	1	4	5	0

- Molecule 30 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms		AltConf
			Total	Fe	
30	A	1	1	1	0
30	a	1	1	1	0

- Molecule 31 is CHLOROPHYLL A (three-letter code: CLA) (formula:  $C_{55}H_{72}MgN_4O_5$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	Mg	N		O
31	A	1	65	55	1	4	5	0
31	A	1	49	39	1	4	5	0
31	A	1	60	50	1	4	5	0
31	B	1	43	35	1	4	3	0
31	B	1	61	52	1	4	4	0
31	B	1	64	54	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	B	1	65	55	1	4	5	0
31	B	1	65	55	1	4	5	0
31	B	1	65	55	1	4	5	0
31	B	1	41	33	1	4	3	0
31	B	1	65	55	1	4	5	0
31	B	1	65	55	1	4	5	0
31	B	1	65	55	1	4	5	0
31	B	1	64	54	1	4	5	0
31	B	1	41	33	1	4	3	0
31	B	1	65	55	1	4	5	0
31	B	1	60	50	1	4	5	0
31	B	1	65	55	1	4	5	0
31	B	1	65	55	1	4	5	0
31	C	1	65	55	1	4	5	0
31	C	1	64	54	1	4	5	0
31	C	1	51	41	1	4	5	0
31	C	1	64	54	1	4	5	0
31	C	1	65	55	1	4	5	0
31	C	1	45	35	1	4	5	0
31	C	1	65	55	1	4	5	0
31	C	1	65	55	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	C	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	C	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	C	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	C	1	Total 64	C 54	Mg 1	N 4	O 5	0
31	C	1	Total 49	C 39	Mg 1	N 4	O 5	0
31	D	1	Total 59	C 49	Mg 1	N 4	O 5	0
31	D	1	Total 62	C 52	Mg 1	N 4	O 5	0
31	D	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	W	1	Total 45	C 35	Mg 1	N 4	O 5	0
31	Z	1	Total 51	C 41	Mg 1	N 4	O 5	0
31	a	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	a	1	Total 49	C 39	Mg 1	N 4	O 5	0
31	a	1	Total 60	C 50	Mg 1	N 4	O 5	0
31	b	1	Total 43	C 35	Mg 1	N 4	O 3	0
31	b	1	Total 61	C 52	Mg 1	N 4	O 4	0
31	b	1	Total 64	C 54	Mg 1	N 4	O 5	0
31	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	b	1	Total 65	C 55	Mg 1	N 4	O 5	0
31	b	1	Total 41	C 33	Mg 1	N 4	O 3	0
31	b	1	Total 65	C 55	Mg 1	N 4	O 5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	b	1	65	55	1	4	5	0
31	b	1	65	55	1	4	5	0
31	b	1	64	54	1	4	5	0
31	b	1	41	33	1	4	3	0
31	b	1	65	55	1	4	5	0
31	b	1	60	50	1	4	5	0
31	b	1	65	55	1	4	5	0
31	b	1	65	55	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	64	54	1	4	5	0
31	c	1	51	41	1	4	5	0
31	c	1	64	54	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	45	35	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	65	55	1	4	5	0
31	c	1	64	54	1	4	5	0
31	c	1	49	39	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	d	1	59	49	1	4	5	0
31	d	1	62	52	1	4	5	0
31	d	1	65	55	1	4	5	0
31	w	1	45	35	1	4	5	0
31	z	1	51	41	1	4	5	0
31	5	1	41	33	1	4	3	0
31	5	1	61	51	1	4	5	0
31	5	1	45	35	1	4	5	0
31	5	1	61	51	1	4	5	0
31	5	1	61	51	1	4	5	0
31	5	1	41	33	1	4	3	0
31	5	1	55	45	1	4	5	0
31	5	1	45	35	1	4	5	0
31	5	1	42	34	1	4	3	0
31	5	1	38	32	1	4	1	0
31	5	1	38	32	1	4	1	0
31	7	1	41	33	1	4	3	0
31	7	1	45	35	1	4	5	0
31	7	1	47	37	1	4	5	0
31	7	1	44	34	1	4	5	0
31	7	1	59	49	1	4	5	0

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Mol	Chain	Residues	Atoms					AltConf
31	7	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
31	7	1	Total	C	Mg	N	O	0
			43	35	1	4	3	
31	7	1	Total	C	Mg	N	O	0
			36	30	1	4	1	
31	7	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	7	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	7	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	7	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
31	6	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
31	6	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
31	6	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
31	6	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
31	6	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	6	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	6	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	p	1	Total	C	Mg	N	O	0
			36	30	1	4	1	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	p	1	41	33	1	4	3	0
31	p	1	37	31	1	4	1	0
31	p	1	40	32	1	4	3	0
31	p	1	37	31	1	4	1	0
31	p	1	37	31	1	4	1	0
31	p	1	36	30	1	4	1	0
31	p	1	38	30	1	4	3	0
31	p	1	39	32	1	4	2	0
31	4	1	38	32	1	4	1	0
31	4	1	35	29	1	4	1	0
31	4	1	37	31	1	4	1	0
31	4	1	38	32	1	4	1	0
31	4	1	40	32	1	4	3	0
31	4	1	41	33	1	4	3	0
31	4	1	38	32	1	4	1	0
31	4	1	34	28	1	4	1	0
31	4	1	36	30	1	4	1	0
31	4	1	35	29	1	4	1	0
31	3	1	34	28	1	4	1	0
31	3	1	41	33	1	4	3	0
31	3	1	33	27	1	4	1	0

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Mol	Chain	Residues	Atoms					AltConf
31	3	1	Total	C	Mg	N	O	0
			42	34	1	4	3	
31	3	1	Total	C	Mg	N	O	0
			36	30	1	4	1	
31	3	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
31	3	1	Total	C	Mg	N	O	0
			35	29	1	4	1	
31	3	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
31	3	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
31	3	1	Total	C	Mg	N	O	0
			39	33	1	4	1	
31	3	1	Total	C	Mg	N	O	0
			35	29	1	4	1	
31	P	1	Total	C	Mg	N	O	0
			36	30	1	4	1	
31	P	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
31	P	1	Total	C	Mg	N	O	0
			37	31	1	4	1	
31	P	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
31	P	1	Total	C	Mg	N	O	0
			37	31	1	4	1	
31	P	1	Total	C	Mg	N	O	0
			37	31	1	4	1	
31	P	1	Total	C	Mg	N	O	0
			36	30	1	4	1	
31	P	1	Total	C	Mg	N	O	0
			38	30	1	4	3	
31	P	1	Total	C	Mg	N	O	0
			39	32	1	4	2	
31	9	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	9	1	Total	C	Mg	N	O	0
			35	29	1	4	1	
31	9	1	Total	C	Mg	N	O	0
			37	31	1	4	1	
31	9	1	Total	C	Mg	N	O	0
			38	32	1	4	1	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	9	1	40	32	1	4	3	0
31	9	1	41	33	1	4	3	0
31	9	1	38	32	1	4	1	0
31	9	1	34	28	1	4	1	0
31	9	1	36	30	1	4	1	0
31	9	1	35	29	1	4	1	0
31	8	1	34	28	1	4	1	0
31	8	1	41	33	1	4	3	0
31	8	1	33	27	1	4	1	0
31	8	1	42	34	1	4	3	0
31	8	1	36	30	1	4	1	0
31	8	1	40	32	1	4	3	0
31	8	1	35	29	1	4	1	0
31	8	1	40	32	1	4	3	0
31	8	1	41	33	1	4	3	0
31	8	1	39	33	1	4	1	0
31	8	1	35	29	1	4	1	0
31	0	1	41	33	1	4	3	0
31	0	1	61	51	1	4	5	0
31	0	1	45	35	1	4	5	0
31	0	1	61	51	1	4	5	0

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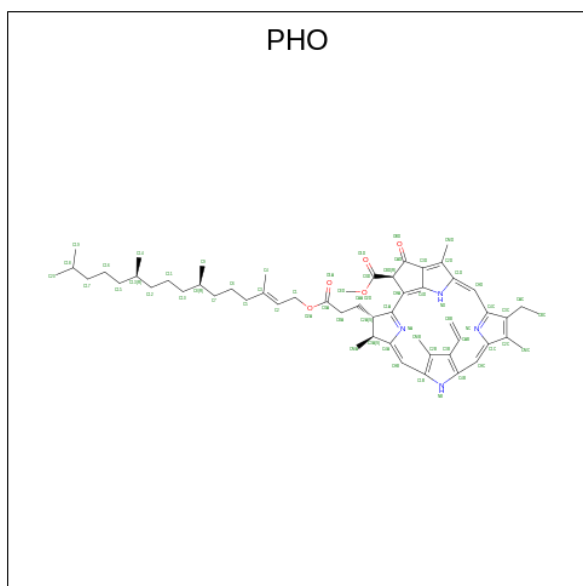
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
31	0	1	61	51	1	4	5	0
31	0	1	41	33	1	4	3	0
31	0	1	55	45	1	4	5	0
31	0	1	45	35	1	4	5	0
31	0	1	42	34	1	4	3	0
31	0	1	38	32	1	4	1	0
31	0	1	38	32	1	4	1	0
31	2	1	41	33	1	4	3	0
31	2	1	45	35	1	4	5	0
31	2	1	47	37	1	4	5	0
31	2	1	44	34	1	4	5	0
31	2	1	59	49	1	4	5	0
31	2	1	55	45	1	4	5	0
31	2	1	43	35	1	4	3	0
31	2	1	36	30	1	4	1	0
31	2	1	38	32	1	4	1	0
31	2	1	38	32	1	4	1	0
31	2	1	38	32	1	4	1	0
31	2	1	41	33	1	4	3	0
31	1	1	44	34	1	4	5	0
31	1	1	41	33	1	4	3	0

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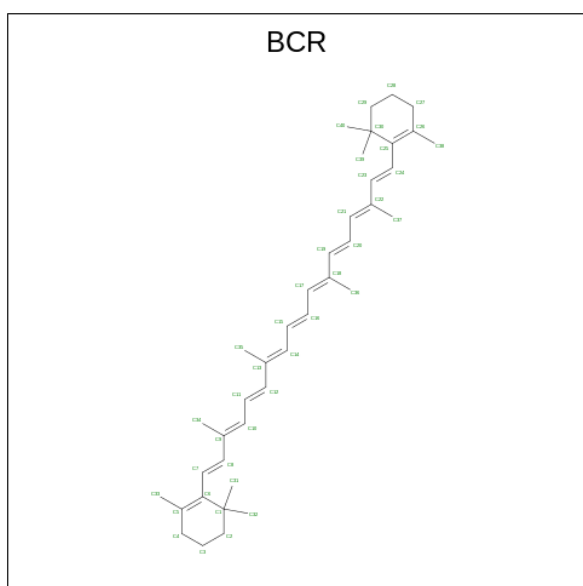
Mol	Chain	Residues	Atoms					AltConf
31	1	1	Total	C	Mg	N	O	0
			45	35	1	4	5	
31	1	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
31	1	1	Total	C	Mg	N	O	0
			47	37	1	4	5	
31	1	1	Total	C	Mg	N	O	0
			44	34	1	4	5	
31	1	1	Total	C	Mg	N	O	0
			65	55	1	4	5	
31	1	1	Total	C	Mg	N	O	0
			55	45	1	4	5	
31	1	1	Total	C	Mg	N	O	0
			41	33	1	4	3	
31	1	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
31	1	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	1	1	Total	C	Mg	N	O	0
			38	32	1	4	1	
31	1	1	Total	C	Mg	N	O	0
			38	32	1	4	1	

- Molecule 32 is PHEOPHYTIN A (three-letter code: PHO) (formula:  $C_{55}H_{74}N_4O_5$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
32	A	1	Total	C	N	O	0
			64	55	4	5	
32	A	1	Total	C	N	O	0
			64	55	4	5	
32	a	1	Total	C	N	O	0
			64	55	4	5	
32	a	1	Total	C	N	O	0
			64	55	4	5	

- Molecule 33 is BETA-CAROTENE (three-letter code: BCR) (formula:  $C_{40}H_{56}$ ).



Mol	Chain	Residues	Atoms		AltConf
33	A	1	Total	C	0
			40	40	
33	B	1	Total	C	0
			40	40	
33	B	1	Total	C	0
			40	40	
33	B	1	Total	C	0
			40	40	
33	C	1	Total	C	0
			40	40	
33	C	1	Total	C	0
			40	40	
33	C	1	Total	C	0
			40	40	
33	D	1	Total	C	0
			40	40	

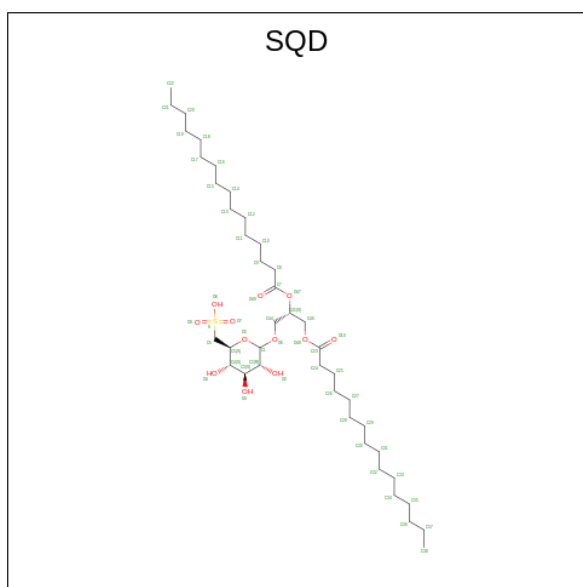
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Mol	Chain	Residues	Atoms	AltConf
33	H	1	Total C 40 40	0
33	K	1	Total C 40 40	0
33	a	1	Total C 40 40	0
33	b	1	Total C 40 40	0
33	b	1	Total C 40 40	0
33	b	1	Total C 40 40	0
33	c	1	Total C 40 40	0
33	c	1	Total C 40 40	0
33	c	1	Total C 40 40	0
33	d	1	Total C 40 40	0
33	h	1	Total C 40 40	0
33	k	1	Total C 40 40	0

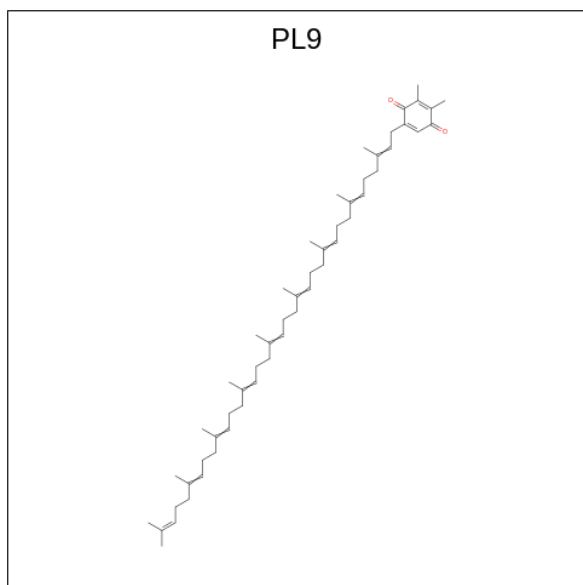
- Molecule 34 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C<sub>41</sub>H<sub>78</sub>O<sub>12</sub>S) (labeled as "Ligand of Interest" by depositor).





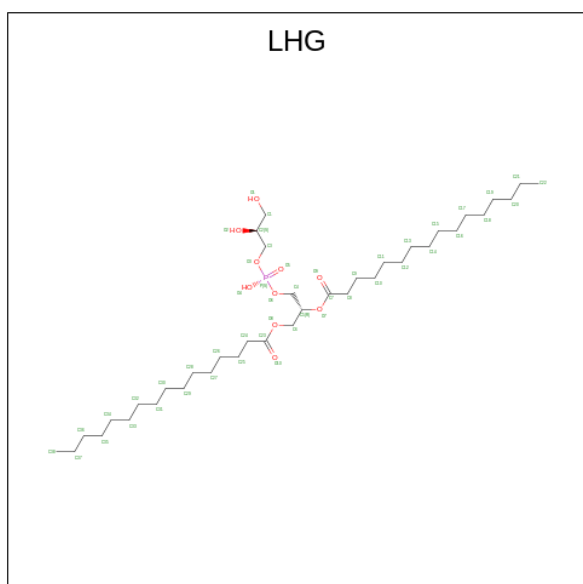
Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	S	
34	A	1	54	41	12	1	0
34	A	1	54	41	12	1	0
34	B	1	54	41	12	1	0
34	B	1	40	27	12	1	0
34	a	1	54	41	12	1	0
34	b	1	40	27	12	1	0
34	5	1	48	35	12	1	0
34	0	1	48	35	12	1	0

- Molecule 35 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula:  $C_{53}H_{80}O_2$ ) (labeled as "Ligand of Interest" by depositor).



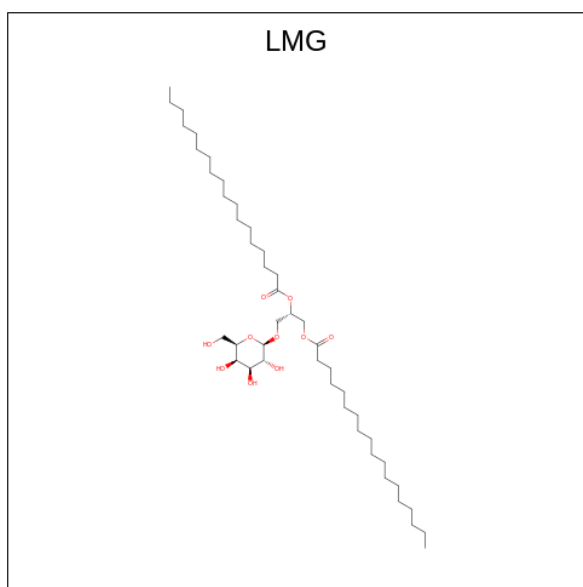
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
35	A	1	32	30	2	0
35	D	1	55	53	2	0
35	a	1	32	30	2	0
35	d	1	55	53	2	0

- Molecule 36 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
36	A	1	Total	C	O	P	0
			43	32	10	1	
36	A	1	Total	C	O	P	0
			26	15	10	1	
36	B	1	Total	C	O	P	0
			49	38	10	1	
36	D	1	Total	C	O	P	0
			48	38	9	1	
36	D	1	Total	C	O	P	0
			34	23	10	1	
36	D	1	Total	C	O	P	0
			28	19	8	1	
36	H	1	Total	C	O	P	0
			42	31	10	1	
36	a	1	Total	C	O	P	0
			43	32	10	1	
36	a	1	Total	C	O	P	0
			26	15	10	1	
36	b	1	Total	C	O	P	0
			49	38	10	1	
36	d	1	Total	C	O	P	0
			48	38	9	1	
36	d	1	Total	C	O	P	0
			34	23	10	1	
36	d	1	Total	C	O	P	0
			28	19	8	1	
36	h	1	Total	C	O	P	0
			42	31	10	1	

- Molecule 37 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C<sub>45</sub>H<sub>86</sub>O<sub>10</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
37	B	1	28	18	10	0
37	C	1	51	41	10	0
37	D	1	46	36	10	0
37	D	1	37	27	10	0
37	D	1	40	30	10	0
37	J	1	50	40	10	0
37	M	1	51	41	10	0
37	M	1	40	30	10	0
37	W	1	48	38	10	0
37	Y	1	46	36	10	0
37	b	1	28	18	10	0
37	c	1	51	41	10	0
37	d	1	46	36	10	0
37	d	1	37	27	10	0

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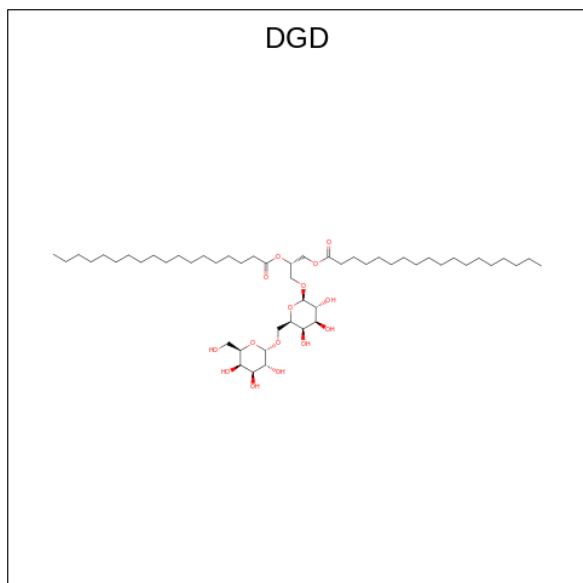
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Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
37	d	1	40	30	10	0
37	j	1	50	40	10	0
37	m	1	51	41	10	0
37	m	1	40	30	10	0
37	w	1	48	38	10	0
37	y	1	46	36	10	0
37	5	1	48	38	10	0
37	0	1	48	38	10	0

- Molecule 38 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

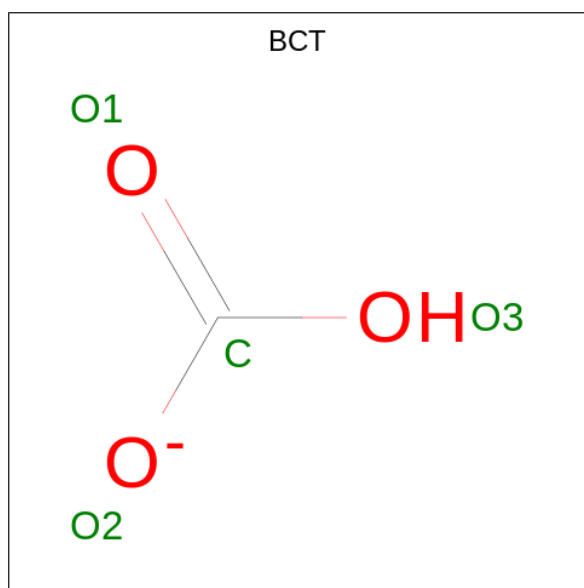
Mol	Chain	Residues	Atoms		AltConf
			Total	Cl	
38	C	1	1	1	0
38	c	1	1	1	0

- Molecule 39 is DIGALACTOSYL DIACYL GLYCEROL (DGD) (three-letter code: DGD) (formula: C<sub>51</sub>H<sub>96</sub>O<sub>15</sub>) (labeled as "Ligand of Interest" by depositor).



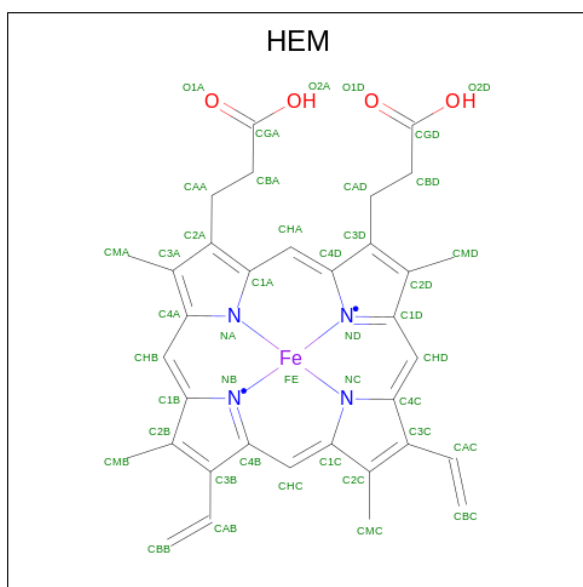
Mol	Chain	Residues	Atoms			AltConf
39	C	1	Total	C	O	0
			55	40	15	
39	C	1	Total	C	O	0
			62	47	15	
39	C	1	Total	C	O	0
			62	47	15	
39	H	1	Total	C	O	0
			62	47	15	
39	c	1	Total	C	O	0
			55	40	15	
39	c	1	Total	C	O	0
			62	47	15	
39	c	1	Total	C	O	0
			62	47	15	
39	h	1	Total	C	O	0
			62	47	15	

- Molecule 40 is BICARBONATE ION (three-letter code: BCT) (formula:  $\text{CHO}_3$ ).



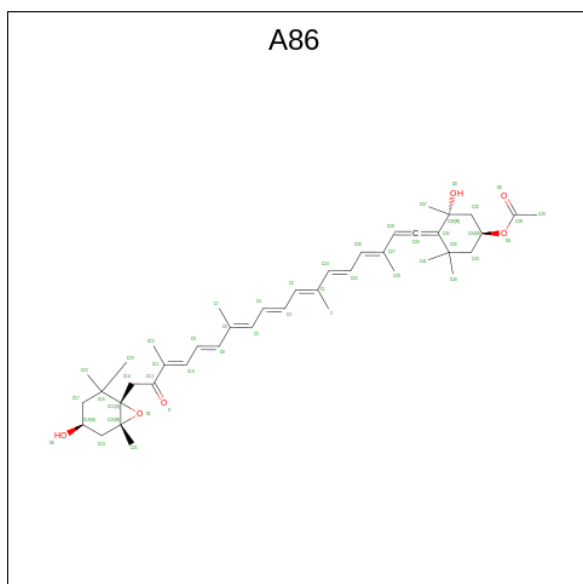
Mol	Chain	Residues	Atoms			AltConf
40	D	1	Total	C	O	0
			4	1	3	
40	d	1	Total	C	O	0
			4	1	3	

- Molecule 41 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula:  $\text{C}_{34}\text{H}_{32}\text{FeN}_4\text{O}_4$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	Fe	N		O
41	F	1	43	34	1	4	4	0
41	V	1	43	34	1	4	4	0
41	f	1	43	34	1	4	4	0
41	v	1	43	34	1	4	4	0

- Molecule 42 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
42	5	1	Total	C	O	0
			48	42	6	
42	5	1	Total	C	O	0
			48	42	6	
42	5	1	Total	C	O	0
			48	42	6	
42	7	1	Total	C	O	0
			48	42	6	
42	7	1	Total	C	O	0
			48	42	6	
42	6	1	Total	C	O	0
			48	42	6	
42	p	1	Total	C	O	0
			48	42	6	
42	4	1	Total	C	O	0
			48	42	6	
42	4	1	Total	C	O	0
			48	42	6	
42	4	1	Total	C	O	0
			48	42	6	
42	3	1	Total	C	O	0
			48	42	6	
42	3	1	Total	C	O	0
			48	42	6	
42	P	1	Total	C	O	0
			48	42	6	
42	9	1	Total	C	O	0
			48	42	6	
42	9	1	Total	C	O	0
			48	42	6	
42	9	1	Total	C	O	0
			48	42	6	
42	8	1	Total	C	O	0
			48	42	6	
42	8	1	Total	C	O	0
			48	42	6	
42	0	1	Total	C	O	0
			48	42	6	
42	0	1	Total	C	O	0
			48	42	6	
42	0	1	Total	C	O	0
			48	42	6	
42	2	1	Total	C	O	0
			48	42	6	

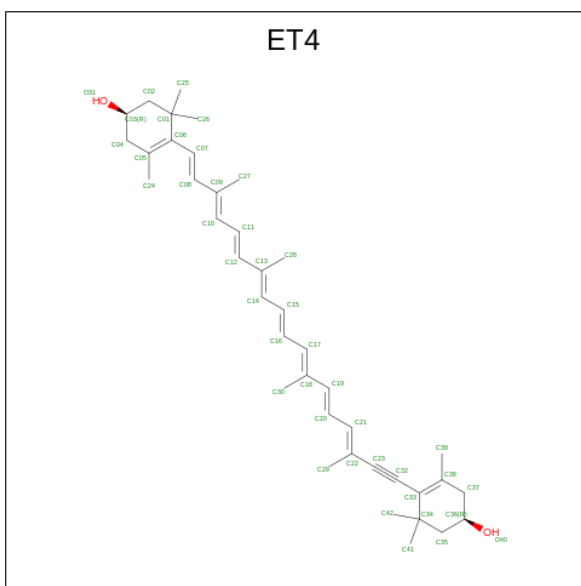
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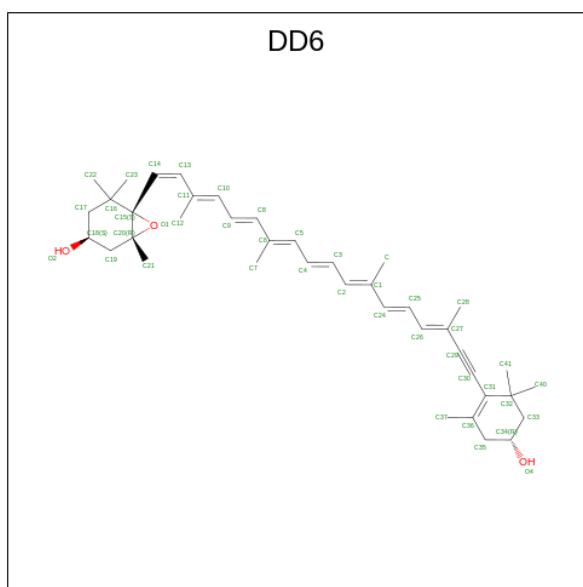
Mol	Chain	Residues	Atoms			AltConf
42	2	1	Total	C	O	0
			48	42	6	
42	1	1	Total	C	O	0
			48	42	6	

- Molecule 43 is (1 {R})-3,5,5-trimethyl-4-[(1 {E},3 {E},5 {E},7 {E},9 {E},11 {E},13 {E},15 {E})-3,7,12,16-tetramethyl-18-[(4 {R})-2,6,6-trimethyl-4-oxidanyl-cyclohexen-1-yl]octadeca-1,3,5,7,9,11,13,15-octaen-17-ynyl]cyclohex-3-en-1-ol (three-letter code: ET4) (formula: C<sub>40</sub>H<sub>54</sub>O<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			AltConf
43	5	1	Total	C	O	0
			42	40	2	
43	0	1	Total	C	O	0
			42	40	2	

- Molecule 44 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: C<sub>40</sub>H<sub>54</sub>O<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).

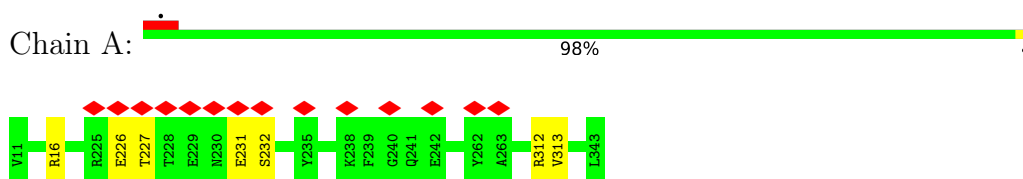


Mol	Chain	Residues	Atoms			AltConf
44	7	1	Total	C	O	0
			43	40	3	
44	7	1	Total	C	O	0
			43	40	3	
44	6	1	Total	C	O	0
			43	40	3	
44	6	1	Total	C	O	0
			43	40	3	
44	p	1	Total	C	O	0
			43	40	3	
44	3	1	Total	C	O	0
			43	40	3	
44	P	1	Total	C	O	0
			43	40	3	
44	8	1	Total	C	O	0
			43	40	3	
44	2	1	Total	C	O	0
			43	40	3	
44	2	1	Total	C	O	0
			43	40	3	
44	1	1	Total	C	O	0
			43	40	3	
44	1	1	Total	C	O	0
			43	40	3	

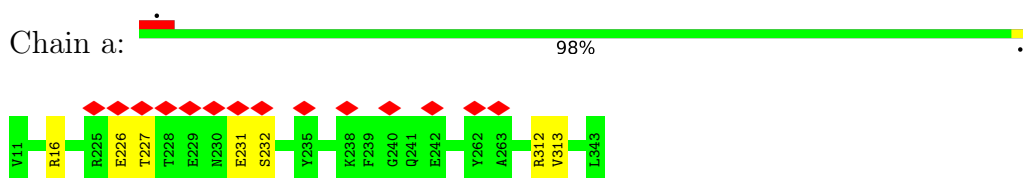
### 3 Residue-property plots [i](#)

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.

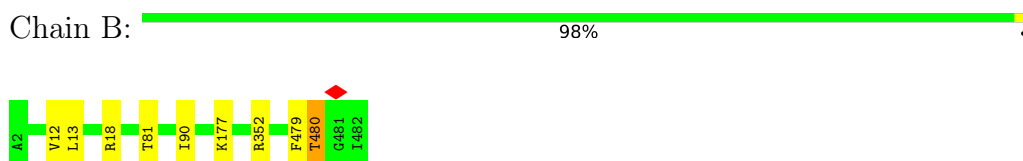
- Molecule 1: PsbA



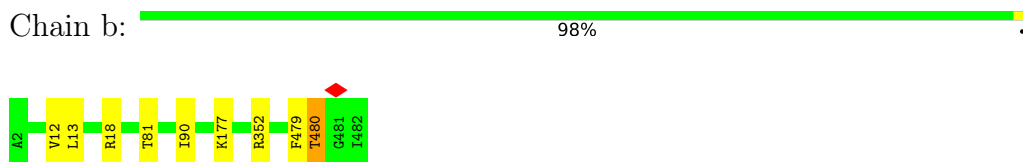
- Molecule 1: PsbA



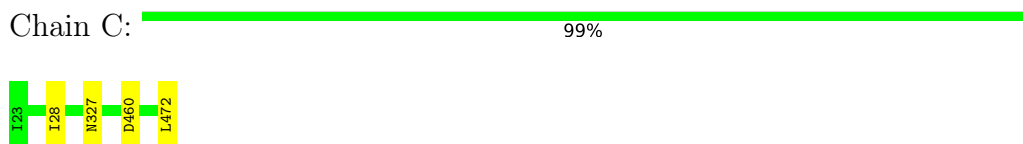
- Molecule 2: PsbB



- Molecule 2: PsbB



- Molecule 3: PsbC



- Molecule 3: PsbC

Chain c:  99%



● Molecule 4: PsbD

Chain D:  99%



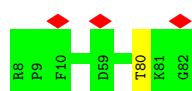
● Molecule 4: PsbD

Chain d:  99%



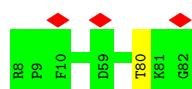
● Molecule 5: PsbE

Chain E:  99%




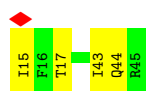
● Molecule 5: PsbE

Chain e:  99%




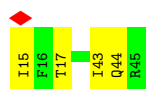
● Molecule 6: PsbF

Chain F:  87% 13%



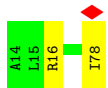
● Molecule 6: PsbF

Chain f:  87% 13%



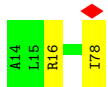
- Molecule 7: PsbH

Chain H:  97%




- Molecule 7: PsbH

Chain h:  97%




- Molecule 8: PsbI

Chain I:  91% 9%



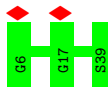
- Molecule 8: PsbI

Chain i:  91% 9%



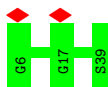
- Molecule 9: PsbJ

Chain J:  6% 100%



- Molecule 9: PsbJ

Chain j:  6% 100%



- Molecule 10: PsbK

Chain K:  100%

There are no outlier residues recorded for this chain.

- Molecule 10: PsbK

Chain k:  100%

There are no outlier residues recorded for this chain.

- Molecule 11: PsbL

Chain L:  100%

There are no outlier residues recorded for this chain.

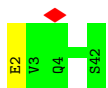
- Molecule 11: PsbL

Chain l:  100%

There are no outlier residues recorded for this chain.

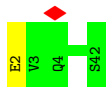
- Molecule 12: PsbM

Chain M:  98%



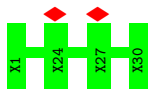
- Molecule 12: PsbM

Chain m:  98%



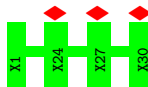
- Molecule 13: Psb34

Chain N:  7%



- Molecule 13: Psb34

Chain n:  10%

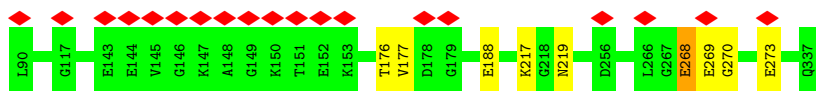


- Molecule 14: PsbO

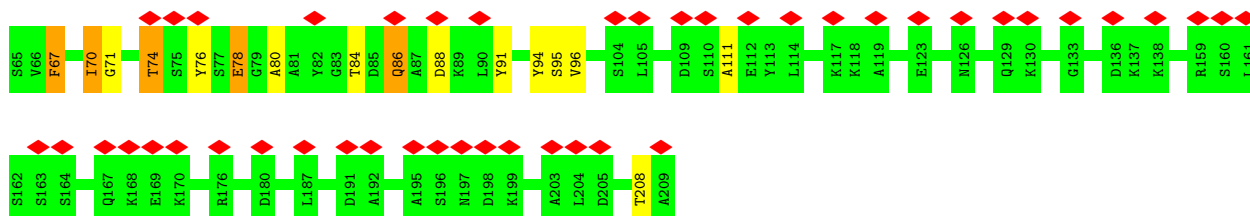
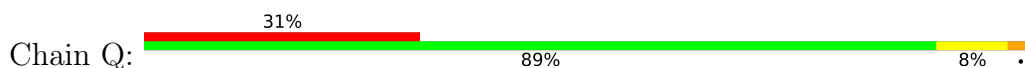
Chain O:  8%



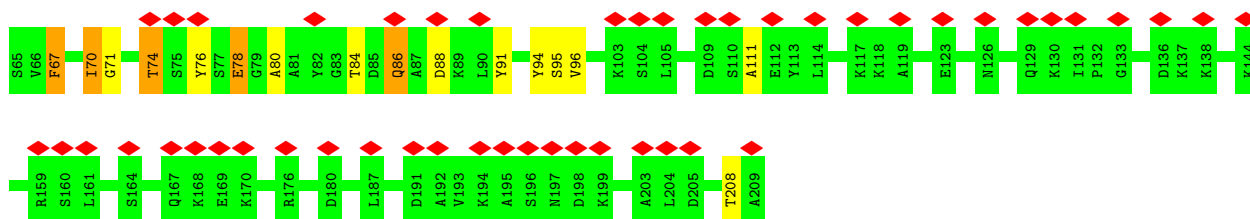
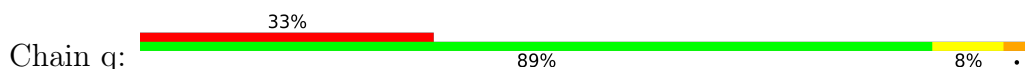
• Molecule 14: PsbO



• Molecule 15: PsbQ'



• Molecule 15: PsbQ'



• Molecule 16: PsbT



• Molecule 16: PsbT



• Molecule 17: PsbU

Chain U:  96%

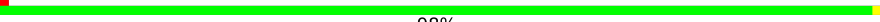


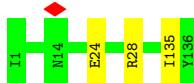
• Molecule 17: PsbU

Chain u:  96%



• Molecule 18: PsbV

Chain V:  98%

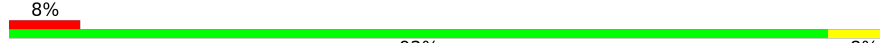


• Molecule 18: PsbV

Chain v:  98%



• Molecule 19: PsbW

Chain W:  8% 92% 8%



• Molecule 19: PsbW

Chain w:  8% 92% 8%



• Molecule 20: PsbX

Chain X:  97%



• Molecule 20: PsbX



Chain x:  97%



- Molecule 21: PsbY

Chain Y:  94%




- Molecule 21: PsbY

Chain y:  94%




- Molecule 22: PsbZ

Chain Z:  88%



- Molecule 22: PsbZ

Chain z:  88%



- Molecule 23: FCPII-G, fucoxanthin chlorophyll a/c binding protein

Chain 5:  100%

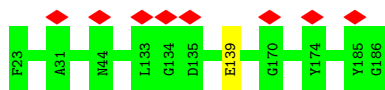


- Molecule 23: FCPII-G, fucoxanthin chlorophyll a/c binding protein

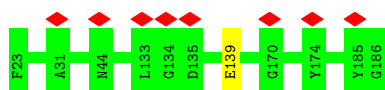
Chain 0:  100%



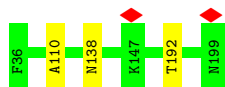
- Molecule 24: FCPII-H2, fucoxanthin chlorophyll a/c binding protein



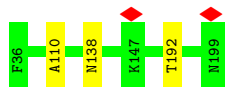
• Molecule 24: FCPH-H2, fucoxanthin chlorophyll a/c binding protein



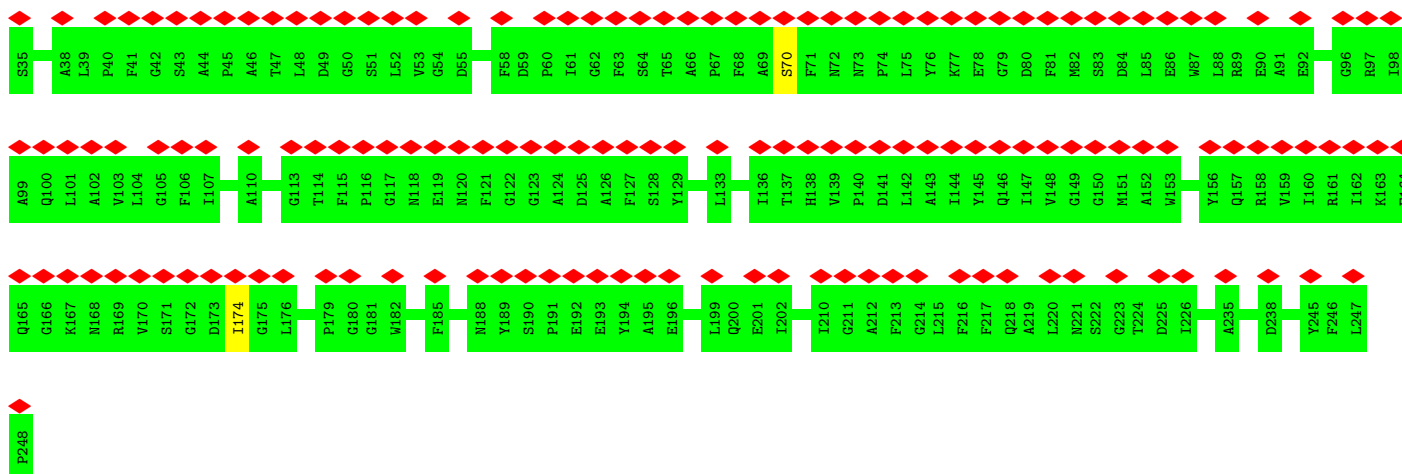
• Molecule 25: FCPH-H1, fucoxanthin chlorophyll a/c binding protein



• Molecule 25: FCPH-H1, fucoxanthin chlorophyll a/c binding protein



• Molecule 26: FCPH-I, fucoxanthin chlorophyll a/c binding protein

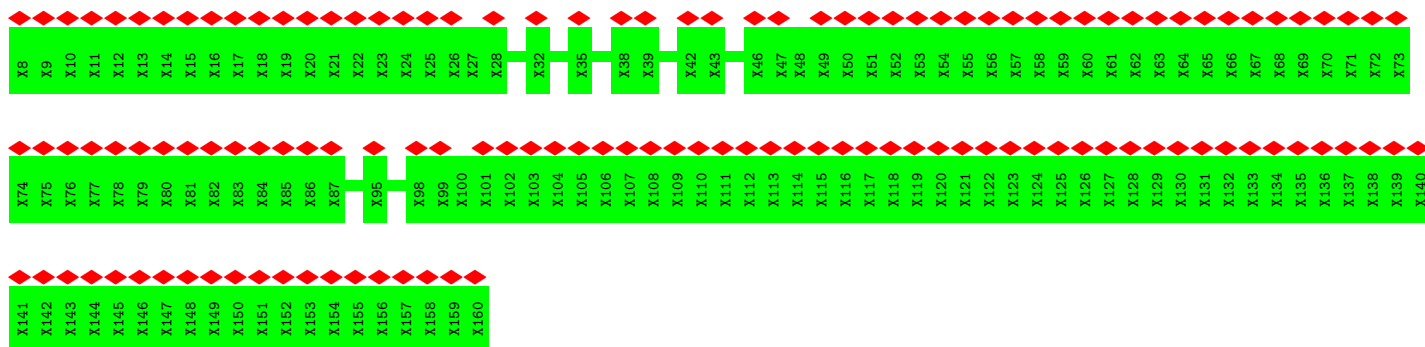
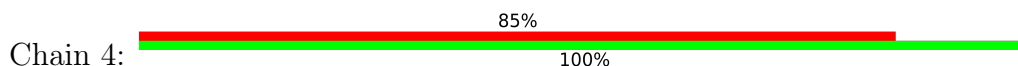


• Molecule 26: FCPH-I, fucoxanthin chlorophyll a/c binding protein

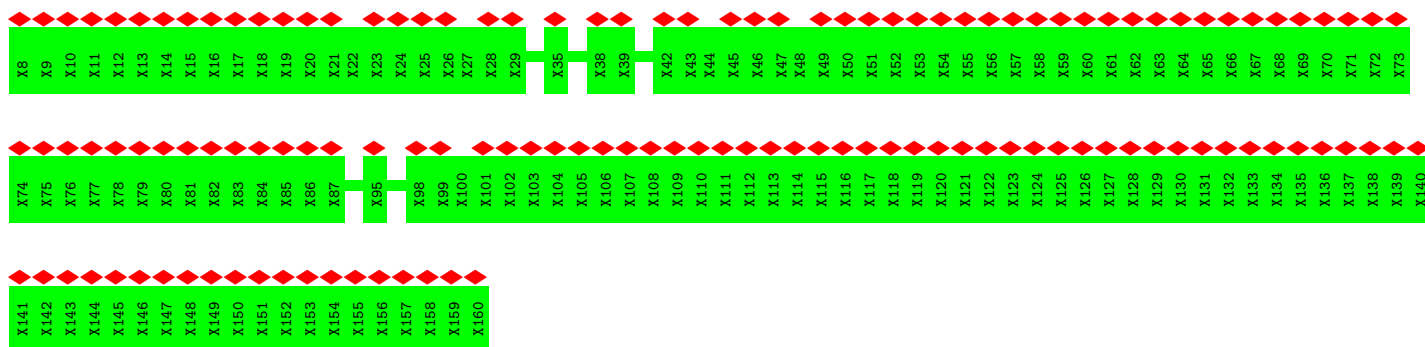
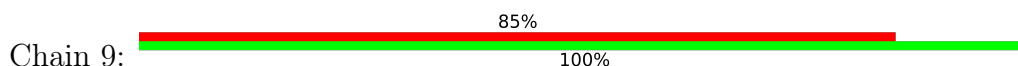




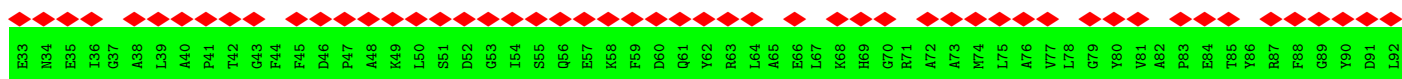
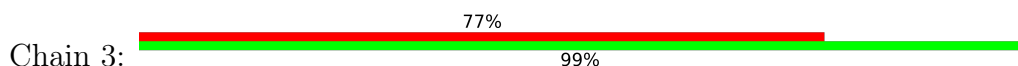
• Molecule 27: FCPHII-K, fucoxanthin chlorophyll a/c binding protein

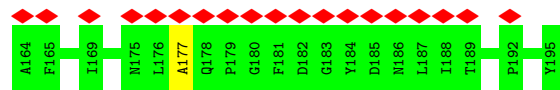
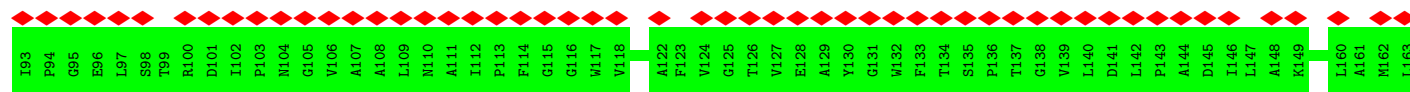


• Molecule 27: FCPHII-K, fucoxanthin chlorophyll a/c binding protein

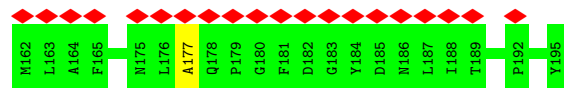
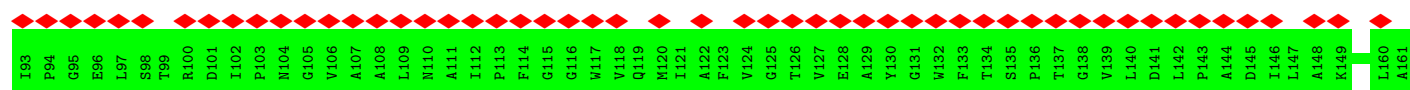
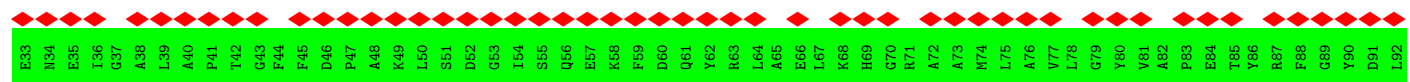
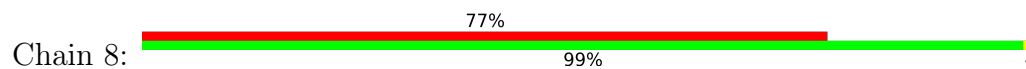


• Molecule 28: FCPHII-J, fucoxanthin chlorophyll a/c binding protein





- Molecule 28: FCPHII-J, fucoxanthin chlorophyll a/c binding protein



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	153326	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 ( $e^-/\text{\AA}^2$ )	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.709	Depositor
Minimum map value	-0.314	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.018	Depositor
Recommended contour level	0.158	Depositor
Map size (Å)	542.72, 542.72, 542.72	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: FE2, BCR, OEX, A86, PHO, PL9, CL, LMG, HEM, ET4, SQD, LHG, DD6, CLA, BCT, DGD

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	0.32	0/2609	0.47	0/3563
1	a	0.32	0/2609	0.47	0/3563
2	B	0.31	0/3878	0.48	0/5282
2	b	0.31	0/3878	0.48	0/5282
3	C	0.31	0/3553	0.47	0/4850
3	c	0.31	0/3553	0.47	0/4850
4	D	0.32	0/2759	0.49	0/3766
4	d	0.32	0/2759	0.49	0/3766
5	E	0.28	0/620	0.48	0/847
5	e	0.29	0/620	0.48	0/847
6	F	0.41	0/250	0.53	0/340
6	f	0.41	0/250	0.52	0/340
7	H	0.32	0/509	0.47	0/696
7	h	0.32	0/509	0.47	0/696
8	I	0.36	0/273	0.54	0/371
8	i	0.36	0/273	0.54	0/371
9	J	0.62	0/253	0.71	0/344
9	j	0.62	0/253	0.71	0/344
10	K	0.41	0/305	0.48	0/420
10	k	0.41	0/305	0.49	0/420
11	L	0.34	0/303	0.41	0/415
11	l	0.34	0/303	0.42	0/415
12	M	0.33	0/299	0.44	0/404
12	m	0.33	0/299	0.44	0/404
14	O	0.29	0/1853	0.49	0/2505
14	o	0.29	0/1853	0.49	0/2505
15	Q	0.32	0/1065	0.53	0/1439
15	q	0.32	0/1065	0.53	0/1439
16	T	0.33	0/240	0.43	0/325
16	t	0.33	0/240	0.43	0/325
17	U	0.29	0/693	0.47	0/945
17	u	0.29	0/693	0.47	0/945

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
18	V	0.31	0/996	0.48	0/1364
18	v	0.31	0/996	0.48	0/1364
19	W	0.38	0/310	0.70	0/421
19	w	0.36	0/310	0.70	0/421
20	X	0.31	0/233	0.42	0/315
20	x	0.31	0/233	0.42	0/315
21	Y	0.37	0/216	0.64	0/297
21	y	0.37	0/216	0.64	0/297
22	Z	0.31	0/419	0.44	0/578
22	z	0.31	0/419	0.44	0/578
23	0	0.33	0/1312	0.50	0/1792
23	5	0.33	0/1312	0.50	0/1792
24	2	0.30	0/1258	0.51	0/1714
24	7	0.30	0/1258	0.51	0/1714
25	1	0.34	0/1242	0.52	0/1697
25	6	0.34	0/1242	0.52	0/1697
26	P	0.34	0/1287	0.58	0/1778
26	p	0.34	0/1287	0.58	0/1778
28	3	0.39	0/1003	0.63	0/1373
28	8	0.39	0/1003	0.63	0/1373
All	All	0.33	0/55476	0.50	0/75682

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](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

## 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	A	331/333 (99%)	316 (96%)	15 (4%)	0	100	100
1	a	331/333 (99%)	316 (96%)	15 (4%)	0	100	100
2	B	479/481 (100%)	456 (95%)	22 (5%)	1 (0%)	47	76
2	b	479/481 (100%)	456 (95%)	22 (5%)	1 (0%)	47	76
3	C	448/450 (100%)	435 (97%)	12 (3%)	1 (0%)	47	76
3	c	448/450 (100%)	435 (97%)	12 (3%)	1 (0%)	47	76
4	D	338/340 (99%)	325 (96%)	13 (4%)	0	100	100
4	d	338/340 (99%)	325 (96%)	13 (4%)	0	100	100
5	E	73/75 (97%)	70 (96%)	3 (4%)	0	100	100
5	e	73/75 (97%)	70 (96%)	3 (4%)	0	100	100
6	F	29/31 (94%)	26 (90%)	2 (7%)	1 (3%)	3	13
6	f	29/31 (94%)	26 (90%)	2 (7%)	1 (3%)	3	13
7	H	63/65 (97%)	58 (92%)	5 (8%)	0	100	100
7	h	63/65 (97%)	58 (92%)	5 (8%)	0	100	100
8	I	32/34 (94%)	31 (97%)	1 (3%)	0	100	100
8	i	32/34 (94%)	31 (97%)	1 (3%)	0	100	100
9	J	32/34 (94%)	32 (100%)	0	0	100	100
9	j	32/34 (94%)	32 (100%)	0	0	100	100
10	K	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
10	k	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
11	L	35/37 (95%)	35 (100%)	0	0	100	100
11	l	35/37 (95%)	35 (100%)	0	0	100	100
12	M	39/41 (95%)	39 (100%)	0	0	100	100
12	m	39/41 (95%)	39 (100%)	0	0	100	100
14	O	246/248 (99%)	223 (91%)	21 (8%)	2 (1%)	19	49
14	o	246/248 (99%)	223 (91%)	21 (8%)	2 (1%)	19	49
15	Q	143/145 (99%)	113 (79%)	17 (12%)	13 (9%)	1	1
15	q	143/145 (99%)	113 (79%)	17 (12%)	13 (9%)	1	1
16	T	27/29 (93%)	27 (100%)	0	0	100	100
16	t	27/29 (93%)	27 (100%)	0	0	100	100
17	U	90/92 (98%)	82 (91%)	8 (9%)	0	100	100
17	u	90/92 (98%)	82 (91%)	8 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	V	134/136 (98%)	125 (93%)	8 (6%)	1 (1%)	22	52
18	v	134/136 (98%)	125 (93%)	8 (6%)	1 (1%)	22	52
19	W	42/50 (84%)	36 (86%)	2 (5%)	4 (10%)	0	1
19	w	42/50 (84%)	36 (86%)	2 (5%)	4 (10%)	0	1
20	X	32/34 (94%)	29 (91%)	2 (6%)	1 (3%)	4	15
20	x	32/34 (94%)	29 (91%)	2 (6%)	1 (3%)	4	15
21	Y	31/33 (94%)	26 (84%)	5 (16%)	0	100	100
21	y	31/33 (94%)	26 (84%)	5 (16%)	0	100	100
22	Z	57/59 (97%)	44 (77%)	11 (19%)	2 (4%)	3	13
22	z	57/59 (97%)	44 (77%)	11 (19%)	2 (4%)	3	13
23	0	167/169 (99%)	143 (86%)	24 (14%)	0	100	100
23	5	167/169 (99%)	143 (86%)	24 (14%)	0	100	100
24	2	162/164 (99%)	143 (88%)	19 (12%)	0	100	100
24	7	162/164 (99%)	143 (88%)	19 (12%)	0	100	100
25	1	162/164 (99%)	135 (83%)	26 (16%)	1 (1%)	25	56
25	6	162/164 (99%)	135 (83%)	26 (16%)	1 (1%)	25	56
26	P	212/214 (99%)	172 (81%)	38 (18%)	2 (1%)	17	46
26	p	212/214 (99%)	173 (82%)	37 (18%)	2 (1%)	17	46
28	3	161/163 (99%)	140 (87%)	20 (12%)	1 (1%)	25	56
28	8	161/163 (99%)	140 (87%)	20 (12%)	1 (1%)	25	56
All	All	7200/7316 (98%)	6589 (92%)	551 (8%)	60 (1%)	24	49

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	460	ASP
6	F	43	ILE
14	O	268	GLU
15	Q	70	ILE
15	Q	84	THR
15	Q	86	GLN
22	Z	33	TRP
3	c	460	ASP
6	f	43	ILE
14	o	268	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	q	70	ILE
15	q	84	THR
15	q	86	GLN
22	z	33	TRP
28	3	177	ALA
28	8	177	ALA
2	B	480	THR
15	Q	78	GLU
15	Q	80	ALA
15	Q	91	TYR
15	Q	94	TYR
15	Q	111	ALA
15	Q	208	THR
19	W	98	LYS
19	W	99	PRO
2	b	480	THR
15	q	78	GLU
15	q	80	ALA
15	q	91	TYR
15	q	94	TYR
15	q	111	ALA
15	q	208	THR
19	w	98	LYS
19	w	99	PRO
25	6	110	ALA
25	1	110	ALA
15	Q	71	GLY
15	Q	76	TYR
19	W	96	ASN
20	X	112	ASP
15	q	71	GLY
15	q	76	TYR
19	w	95	ALA
20	x	112	ASP
14	O	270	GLY
15	Q	67	PHE
14	o	270	GLY
15	q	67	PHE
26	p	174	ILE
26	P	174	ILE
15	Q	74	THR
22	Z	28	ALA

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Mol	Chain	Res	Type
15	q	74	THR
19	w	96	ASN
22	z	28	ALA
26	p	70	SER
26	P	70	SER
19	W	95	ALA
18	V	135	ILE
18	v	135	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	A	250/272 (92%)	243 (97%)	7 (3%)	43	73
1	a	250/272 (92%)	243 (97%)	7 (3%)	43	73
2	B	370/384 (96%)	361 (98%)	9 (2%)	49	77
2	b	370/384 (96%)	361 (98%)	9 (2%)	49	77
3	C	337/355 (95%)	334 (99%)	3 (1%)	78	92
3	c	337/355 (95%)	334 (99%)	3 (1%)	78	92
4	D	265/272 (97%)	262 (99%)	3 (1%)	73	90
4	d	265/272 (97%)	262 (99%)	3 (1%)	73	90
5	E	65/69 (94%)	64 (98%)	1 (2%)	65	85
5	e	65/69 (94%)	64 (98%)	1 (2%)	65	85
6	F	22/25 (88%)	19 (86%)	3 (14%)	3	10
6	f	22/25 (88%)	19 (86%)	3 (14%)	3	10
7	H	52/54 (96%)	50 (96%)	2 (4%)	33	64
7	h	52/54 (96%)	50 (96%)	2 (4%)	33	64
8	I	30/33 (91%)	27 (90%)	3 (10%)	7	22
8	i	30/33 (91%)	27 (90%)	3 (10%)	7	22
9	J	26/26 (100%)	26 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	j	26/26 (100%)	26 (100%)	0	100	100
10	K	30/32 (94%)	30 (100%)	0	100	100
10	k	30/32 (94%)	30 (100%)	0	100	100
11	L	31/33 (94%)	31 (100%)	0	100	100
11	l	31/33 (94%)	31 (100%)	0	100	100
12	M	26/30 (87%)	25 (96%)	1 (4%)	33	64
12	m	26/30 (87%)	25 (96%)	1 (4%)	33	64
14	O	185/201 (92%)	177 (96%)	8 (4%)	29	60
14	o	185/201 (92%)	177 (96%)	8 (4%)	29	60
15	Q	99/116 (85%)	91 (92%)	8 (8%)	11	31
15	q	99/116 (85%)	91 (92%)	8 (8%)	11	31
16	T	24/26 (92%)	24 (100%)	0	100	100
16	t	24/26 (92%)	24 (100%)	0	100	100
17	U	70/77 (91%)	66 (94%)	4 (6%)	20	49
17	u	70/77 (91%)	66 (94%)	4 (6%)	20	49
18	V	101/114 (89%)	99 (98%)	2 (2%)	55	80
18	v	101/114 (89%)	99 (98%)	2 (2%)	55	80
19	W	25/34 (74%)	25 (100%)	0	100	100
19	w	25/34 (74%)	25 (100%)	0	100	100
20	X	25/26 (96%)	25 (100%)	0	100	100
20	x	25/26 (96%)	25 (100%)	0	100	100
21	Y	18/26 (69%)	16 (89%)	2 (11%)	6	18
21	y	18/26 (69%)	16 (89%)	2 (11%)	6	18
22	Z	39/48 (81%)	34 (87%)	5 (13%)	4	12
22	z	39/48 (81%)	34 (87%)	5 (13%)	4	12
23	0	129/136 (95%)	129 (100%)	0	100	100
23	5	129/136 (95%)	129 (100%)	0	100	100
24	2	110/131 (84%)	109 (99%)	1 (1%)	78	92
24	7	110/131 (84%)	109 (99%)	1 (1%)	78	92
25	1	107/129 (83%)	105 (98%)	2 (2%)	57	81
25	6	107/129 (83%)	105 (98%)	2 (2%)	57	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
26	P	70/166 (42%)	70 (100%)	0	100	100
26	p	70/166 (42%)	70 (100%)	0	100	100
28	3	54/128 (42%)	54 (100%)	0	100	100
28	8	54/128 (42%)	54 (100%)	0	100	100
All	All	5120/5886 (87%)	4992 (98%)	128 (2%)	50	76

All (128) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	ARG
1	A	226	GLU
1	A	227	THR
1	A	231	GLU
1	A	232	SER
1	A	312	ARG
1	A	313	VAL
2	B	12	VAL
2	B	13	LEU
2	B	18	ARG
2	B	81	THR
2	B	90	ILE
2	B	177	LYS
2	B	352	ARG
2	B	479	PHE
2	B	480	THR
3	C	28	ILE
3	C	327	ASN
3	C	472	LEU
4	D	180	ARG
4	D	304	ARG
4	D	348	ARG
5	E	80	THR
6	F	15	ILE
6	F	17	THR
6	F	44	GLN
7	H	16	ARG
7	H	78	ILE
8	I	10	THR
8	I	31	ASN
8	I	33	ASN
12	M	2	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	O	176	THR
14	O	177	VAL
14	O	188	GLU
14	O	217	LYS
14	O	219	ASN
14	O	268	GLU
14	O	269	GLU
14	O	273	GLU
15	Q	67	PHE
15	Q	70	ILE
15	Q	74	THR
15	Q	78	GLU
15	Q	86	GLN
15	Q	88	ASP
15	Q	95	SER
15	Q	96	VAL
17	U	29	ASN
17	U	64	LYS
17	U	68	LEU
17	U	69	SER
18	V	24	GLU
18	V	28	ARG
21	Y	14	ASP
21	Y	16	ARG
22	Z	4	MET
22	Z	8	LEU
22	Z	9	THR
22	Z	11	LEU
22	Z	58	ASP
1	a	16	ARG
1	a	226	GLU
1	a	227	THR
1	a	231	GLU
1	a	232	SER
1	a	312	ARG
1	a	313	VAL
2	b	12	VAL
2	b	13	LEU
2	b	18	ARG
2	b	81	THR
2	b	90	ILE
2	b	177	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	b	352	ARG
2	b	479	PHE
2	b	480	THR
3	c	28	ILE
3	c	327	ASN
3	c	472	LEU
4	d	180	ARG
4	d	304	ARG
4	d	348	ARG
5	e	80	THR
6	f	15	ILE
6	f	17	THR
6	f	44	GLN
7	h	16	ARG
7	h	78	ILE
8	i	10	THR
8	i	31	ASN
8	i	33	ASN
12	m	2	GLU
14	o	176	THR
14	o	177	VAL
14	o	188	GLU
14	o	217	LYS
14	o	219	ASN
14	o	268	GLU
14	o	269	GLU
14	o	273	GLU
15	q	67	PHE
15	q	70	ILE
15	q	74	THR
15	q	78	GLU
15	q	86	GLN
15	q	88	ASP
15	q	95	SER
15	q	96	VAL
17	u	29	ASN
17	u	64	LYS
17	u	68	LEU
17	u	69	SER
18	v	24	GLU
18	v	28	ARG
21	y	14	ASP

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Mol	Chain	Res	Type
21	y	16	ARG
22	z	4	MET
22	z	8	LEU
22	z	9	THR
22	z	11	LEU
22	z	58	ASP
24	7	139	GLU
25	6	138	ASN
25	6	192	THR
24	2	139	GLU
25	1	138	ASN
25	1	192	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	187	GLN
2	B	157	HIS
3	C	327	ASN
4	D	350	ASN
15	Q	129	GLN
17	U	29	ASN
1	a	187	GLN
2	b	157	HIS
3	c	327	ASN
4	d	350	ASN
15	q	129	GLN
17	u	29	ASN
21	y	42	GLN
23	5	185	GLN
23	5	189	ASN
23	5	196	ASN
26	p	200	GLN
26	P	200	GLN
23	0	185	GLN
23	0	189	ASN
23	0	196	ASN

### 5.3.3 RNA

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](#)

Of 336 ligands modelled in this entry, 4 are monoatomic - leaving 332 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
31	CLA	9	213	-	33,43,73	2.12	8 (24%)	43,76,113	1.84	10 (23%)
33	BCR	K	101	-	41,41,41	1.16	2 (4%)	56,56,56	1.24	5 (8%)
31	CLA	6	212	-	41,49,73	1.80	6 (14%)	47,84,113	1.70	7 (14%)
44	DD6	2	303	-	39,45,45	1.99	3 (7%)	52,67,67	2.20	17 (32%)
39	DGD	c	518	-	56,56,67	0.95	3 (5%)	70,70,81	1.45	11 (15%)
42	A86	5	301	-	44,50,50	1.29	3 (6%)	51,76,76	2.93	19 (37%)
41	HEM	V	201	18	41,50,50	1.48	4 (9%)	45,82,82	1.39	5 (11%)
31	CLA	5	312	-	42,50,73	1.80	6 (14%)	48,85,113	1.61	6 (12%)
39	DGD	h	102	-	63,63,67	0.87	2 (3%)	77,77,81	1.42	10 (12%)
31	CLA	8	312	-	40,49,73	1.82	8 (20%)	45,84,113	1.62	7 (15%)
42	A86	7	302	-	44,50,50	1.52	6 (13%)	51,76,76	3.25	18 (35%)
44	DD6	7	303	-	39,45,45	2.00	3 (7%)	52,67,67	2.19	17 (32%)
31	CLA	9	204	-	37,46,73	1.91	6 (16%)	44,80,113	1.68	7 (15%)
36	LHG	b	522	-	48,48,48	0.63	1 (2%)	51,54,54	1.29	6 (11%)
31	CLA	b	508	-	41,49,73	1.80	6 (14%)	47,84,113	1.70	8 (17%)
31	CLA	3	306	-	32,41,73	2.33	9 (28%)	43,72,113	1.87	10 (23%)
37	LMG	j	101	-	50,50,55	0.80	1 (2%)	58,58,63	1.34	6 (10%)
31	CLA	a	404	-	49,57,73	1.66	6 (12%)	55,93,113	1.61	8 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
37	LMG	D	410	-	40,40,55	0.94	3 (7%)	48,48,63	1.35	6 (12%)
31	CLA	3	308	-	36,43,73	1.98	9 (25%)	39,73,113	2.65	7 (17%)
31	CLA	C	513	-	64,72,73	1.47	6 (9%)	74,111,113	1.40	6 (8%)
37	LMG	d	410	-	40,40,55	0.94	3 (7%)	48,48,63	1.35	6 (12%)
37	LMG	b	521	-	28,28,55	0.95	0	36,36,63	1.34	7 (19%)
36	LHG	H	103	-	41,41,48	0.65	1 (2%)	44,47,54	1.14	3 (6%)
37	LMG	M	102	-	40,40,55	0.86	1 (2%)	48,48,63	1.30	4 (8%)
33	BCR	b	518	-	41,41,41	1.19	2 (4%)	56,56,56	1.25	7 (12%)
31	CLA	p	601	26	36,44,73	2.00	7 (19%)	42,77,113	1.89	10 (23%)
31	CLA	b	507	-	65,73,73	1.44	7 (10%)	76,113,113	1.45	7 (9%)
36	LHG	d	412	-	27,27,48	0.87	2 (7%)	31,32,54	1.72	4 (12%)
31	CLA	9	206	-	35,45,73	1.96	8 (22%)	41,78,113	1.64	6 (14%)
31	CLA	2	314	-	37,46,73	1.90	6 (16%)	44,80,113	1.73	8 (18%)
31	CLA	p	604	-	39,48,73	1.78	7 (17%)	44,83,113	1.83	7 (15%)
31	CLA	1	201	-	44,52,73	1.84	7 (15%)	55,88,113	1.64	9 (16%)
42	A86	8	302	-	44,50,50	1.47	5 (11%)	51,76,76	3.28	23 (45%)
31	CLA	D	403	-	62,70,73	1.57	8 (12%)	76,109,113	1.47	10 (13%)
34	SQD	A	409	-	53,54,54	0.95	5 (9%)	62,65,65	1.49	9 (14%)
36	LHG	A	413	-	25,25,48	0.81	1 (4%)	28,31,54	1.27	2 (7%)
36	LHG	a	412	-	25,25,48	0.80	1 (4%)	28,31,54	1.27	2 (7%)
31	CLA	1	205	-	41,49,73	1.83	6 (14%)	47,84,113	1.63	8 (17%)
35	PL9	D	406	-	55,55,55	1.35	5 (9%)	68,69,69	1.56	12 (17%)
31	CLA	b	509	-	65,73,73	1.47	6 (9%)	76,113,113	1.40	7 (9%)
31	CLA	P	603	-	36,45,73	1.89	6 (16%)	43,79,113	1.90	7 (16%)
31	CLA	2	306	24	45,53,73	1.75	6 (13%)	52,89,113	1.58	6 (11%)
31	CLA	1	207	-	44,52,73	1.85	7 (15%)	55,88,113	1.58	8 (14%)
37	LMG	W	201	-	48,48,55	0.76	1 (2%)	56,56,63	1.33	7 (12%)
31	CLA	8	309	-	39,48,73	1.81	8 (20%)	44,83,113	1.87	7 (15%)
31	CLA	4	205	-	35,43,73	1.99	9 (25%)	43,75,113	1.58	7 (16%)
37	LMG	D	408	-	46,46,55	0.77	1 (2%)	54,54,63	1.33	6 (11%)
31	CLA	0	312	-	42,50,73	1.80	5 (11%)	48,85,113	1.62	6 (12%)
31	CLA	8	308	-	36,43,73	1.97	9 (25%)	39,73,113	2.65	8 (20%)
31	CLA	P	602	-	41,49,73	1.78	7 (17%)	47,84,113	1.82	10 (21%)
42	A86	0	317	-	44,50,50	1.29	3 (6%)	51,76,76	2.94	18 (35%)
31	CLA	0	309	23	41,49,73	1.83	6 (14%)	47,84,113	1.65	8 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
34	SQD	A	411	-	53,54,54	0.94	3 (5%)	62,65,65	1.65	12 (19%)
42	A86	4	202	-	44,50,50	1.47	5 (11%)	51,76,76	3.55	26 (50%)
37	LMG	w	201	-	48,48,55	0.76	1 (2%)	56,56,63	1.34	7 (12%)
31	CLA	C	510	-	65,73,73	1.43	7 (10%)	76,113,113	1.47	8 (10%)
42	A86	4	201	-	44,50,50	1.38	4 (9%)	51,76,76	4.06	22 (43%)
36	LHG	B	521	-	48,48,48	0.63	1 (2%)	51,54,54	1.29	6 (11%)
37	LMG	y	101	-	46,46,55	0.75	1 (2%)	54,54,63	1.39	11 (20%)
34	SQD	b	501	-	39,40,54	1.10	5 (12%)	48,51,65	1.76	12 (25%)
42	A86	0	303	-	44,50,50	1.28	4 (9%)	51,76,76	2.43	19 (37%)
31	CLA	b	502	-	43,51,73	1.79	6 (13%)	49,86,113	1.62	6 (12%)
31	CLA	4	209	-	41,49,73	1.79	8 (19%)	47,84,113	1.74	8 (17%)
31	CLA	9	205	-	35,43,73	1.99	9 (25%)	43,75,113	1.58	7 (16%)
31	CLA	p	605	-	36,45,73	1.89	10 (27%)	43,79,113	1.77	7 (16%)
31	CLA	1	212	-	41,49,73	1.81	6 (14%)	47,84,113	1.69	7 (14%)
31	CLA	b	503	-	61,69,73	1.47	6 (9%)	67,106,113	1.44	6 (8%)
31	CLA	C	502	-	65,73,73	1.43	6 (9%)	76,113,113	1.43	8 (10%)
42	A86	3	302	-	44,50,50	1.47	5 (11%)	51,76,76	3.27	23 (45%)
31	CLA	6	206	25	45,53,73	1.73	5 (11%)	52,89,113	1.67	7 (13%)
31	CLA	1	213	25	39,48,73	1.88	6 (15%)	44,83,113	1.62	7 (15%)
31	CLA	9	207	-	37,46,73	1.87	9 (24%)	44,80,113	1.78	7 (15%)
31	CLA	7	310	24	55,63,73	1.59	7 (12%)	64,101,113	1.50	9 (14%)
31	CLA	c	510	-	65,73,73	1.43	7 (10%)	76,113,113	1.46	8 (10%)
31	CLA	7	305	-	41,49,73	1.84	6 (14%)	47,84,113	1.66	8 (17%)
33	BCR	h	101	-	41,41,41	1.12	2 (4%)	56,56,56	1.20	6 (10%)
29	OEX	a	401	1,3	0,15,15	-	-	-	-	-
31	CLA	z	101	-	51,59,73	1.69	6 (11%)	59,96,113	1.45	8 (13%)
31	CLA	4	212	-	37,44,73	1.99	7 (18%)	46,77,113	1.74	8 (17%)
41	HEM	f	101	6,5	41,50,50	1.45	3 (7%)	45,82,82	1.30	5 (11%)
31	CLA	1	209	-	44,52,73	1.84	7 (15%)	55,88,113	1.62	9 (16%)
42	A86	2	301	-	44,50,50	1.30	3 (6%)	51,76,76	2.97	19 (37%)
31	CLA	p	606	-	35,45,73	1.97	10 (28%)	41,78,113	1.61	6 (14%)
42	A86	5	303	-	44,50,50	1.28	4 (9%)	51,76,76	2.43	20 (39%)
42	A86	p	610	-	44,50,50	1.44	6 (13%)	51,76,76	3.96	26 (50%)
37	LMG	c	521	-	51,51,55	0.92	2 (3%)	59,59,63	1.04	3 (5%)
31	CLA	D	401	-	59,67,73	1.52	6 (10%)	68,105,113	1.51	9 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
31	CLA	8	307	-	43,50,73	1.73	8 (18%)	49,84,113	1.65	5 (10%)
31	CLA	5	309	23	41,49,73	1.81	6 (14%)	47,84,113	1.66	8 (17%)
37	LMG	J	101	-	50,50,55	0.79	1 (2%)	58,58,63	1.34	6 (10%)
31	CLA	P	605	-	36,45,73	1.88	10 (27%)	43,79,113	1.76	7 (16%)
31	CLA	0	306	-	45,53,73	1.76	6 (13%)	52,89,113	1.57	6 (11%)
31	CLA	6	216	25	37,46,73	1.90	6 (16%)	44,80,113	1.63	7 (15%)
31	CLA	4	208	-	39,48,73	1.86	8 (20%)	44,83,113	1.79	10 (22%)
31	CLA	b	506	-	65,73,73	1.46	7 (10%)	76,113,113	1.41	7 (9%)
31	CLA	7	311	-	43,51,73	1.77	6 (13%)	49,86,113	1.57	7 (14%)
31	CLA	4	204	-	37,46,73	1.91	6 (16%)	44,80,113	1.69	7 (15%)
41	HEM	v	201	18	41,50,50	1.47	4 (9%)	45,82,82	1.39	5 (11%)
31	CLA	5	313	23	37,46,73	1.89	6 (16%)	44,80,113	1.70	8 (18%)
36	LHG	D	407	-	46,47,48	0.63	1 (2%)	45,51,54	1.23	6 (13%)
31	CLA	C	506	-	65,73,73	1.45	6 (9%)	76,113,113	1.42	7 (9%)
31	CLA	c	512	3	65,73,73	1.43	6 (9%)	76,113,113	1.45	6 (7%)
31	CLA	0	311	-	45,53,73	1.76	5 (11%)	52,89,113	1.65	6 (11%)
31	CLA	b	516	-	65,73,73	1.49	8 (12%)	76,113,113	1.42	7 (9%)
31	CLA	5	310	23	55,63,73	1.59	7 (12%)	64,101,113	1.47	9 (14%)
31	CLA	D	404	-	65,73,73	1.45	7 (10%)	76,113,113	1.43	7 (9%)
31	CLA	0	307	-	61,69,73	1.53	6 (9%)	71,108,113	1.43	7 (9%)
42	A86	3	301	-	44,50,50	1.53	7 (15%)	51,76,76	5.17	24 (47%)
31	CLA	3	307	-	43,50,73	1.73	8 (18%)	49,84,113	1.64	5 (10%)
37	LMG	B	520	-	28,28,55	0.95	0	36,36,63	1.34	6 (16%)
33	BCR	B	518	-	41,41,41	1.13	2 (4%)	56,56,56	1.23	6 (10%)
31	CLA	d	403	-	62,70,73	1.56	8 (12%)	76,109,113	1.47	9 (11%)
31	CLA	7	316	-	41,49,73	1.83	6 (14%)	47,84,113	1.70	8 (17%)
31	CLA	9	209	-	41,49,73	1.78	8 (19%)	47,84,113	1.73	8 (17%)
31	CLA	1	211	25	55,63,73	1.61	7 (12%)	64,101,113	1.46	9 (14%)
39	DGD	C	519	-	63,63,67	0.92	3 (4%)	77,77,81	1.46	12 (15%)
31	CLA	c	509	-	65,73,73	1.45	6 (9%)	76,113,113	1.46	7 (9%)
34	SQD	a	409	-	53,54,54	0.95	5 (9%)	62,65,65	1.49	9 (14%)
31	CLA	C	514	-	49,57,73	1.65	6 (12%)	55,93,113	1.62	6 (10%)
42	A86	P	610	-	44,50,50	1.44	6 (13%)	51,76,76	3.97	26 (50%)
31	CLA	0	313	23	37,46,73	1.90	6 (16%)	44,80,113	1.70	8 (18%)
31	CLA	1	216	25	37,46,73	1.91	6 (16%)	44,80,113	1.64	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
31	CLA	a	407	-	60,68,73	1.51	6 (10%)	70,107,113	1.48	10 (14%)
31	CLA	5	311	-	45,53,73	1.74	5 (11%)	52,89,113	1.64	6 (11%)
36	LHG	h	103	-	41,41,48	0.65	1 (2%)	44,47,54	1.13	3 (6%)
33	BCR	B	519	-	41,41,41	1.13	2 (4%)	56,56,56	1.27	7 (12%)
31	CLA	a	403	-	65,73,73	1.45	6 (9%)	76,113,113	1.48	7 (9%)
31	CLA	8	313	-	38,47,73	1.84	7 (18%)	45,81,113	1.64	6 (13%)
31	CLA	4	211	-	34,42,73	2.08	7 (20%)	42,74,113	1.71	7 (16%)
31	CLA	2	308	-	44,52,73	1.84	7 (15%)	55,88,113	1.62	9 (16%)
39	DGD	H	102	-	63,63,67	0.87	2 (3%)	77,77,81	1.42	10 (12%)
31	CLA	8	314	-	36,43,73	1.98	8 (22%)	45,76,113	1.70	9 (20%)
31	CLA	9	210	-	37,46,73	1.87	5 (13%)	44,80,113	1.81	8 (18%)
31	CLA	B	504	-	65,73,73	1.45	6 (9%)	76,113,113	1.50	8 (10%)
44	DD6	6	204	-	39,45,45	2.22	3 (7%)	52,67,67	2.34	17 (32%)
33	BCR	k	101	-	41,41,41	1.16	2 (4%)	56,56,56	1.24	5 (8%)
44	DD6	1	204	-	39,45,45	2.23	4 (10%)	52,67,67	2.34	17 (32%)
31	CLA	8	306	-	32,41,73	2.34	9 (28%)	43,72,113	1.87	10 (23%)
31	CLA	P	601	26	36,44,73	2.00	7 (19%)	42,77,113	1.87	10 (23%)
40	BCT	d	402	30	2,3,3	1.24	0	2,3,3	4.10	2 (100%)
34	SQD	0	316	-	47,48,54	1.03	5 (10%)	56,59,65	1.45	8 (14%)
31	CLA	b	515	-	60,68,73	1.52	7 (11%)	69,106,113	1.43	8 (11%)
31	CLA	c	511	-	65,73,73	1.47	7 (10%)	76,113,113	1.37	8 (10%)
31	CLA	b	512	-	64,72,73	1.49	7 (10%)	74,111,113	1.45	8 (10%)
37	LMG	d	408	-	46,46,55	0.77	1 (2%)	54,54,63	1.33	7 (12%)
33	BCR	c	515	-	41,41,41	1.13	2 (4%)	56,56,56	1.23	7 (12%)
37	LMG	m	101	-	51,51,55	0.76	1 (1%)	59,59,63	1.40	9 (15%)
44	DD6	7	304	-	39,45,45	2.05	3 (7%)	52,67,67	2.51	17 (32%)
31	CLA	2	305	-	41,49,73	1.83	6 (14%)	47,84,113	1.67	8 (17%)
31	CLA	b	514	-	65,73,73	1.46	6 (9%)	76,113,113	1.42	8 (10%)
31	CLA	4	207	-	37,46,73	1.87	9 (24%)	44,80,113	1.78	7 (15%)
42	A86	6	202	-	44,50,50	1.32	4 (9%)	51,76,76	2.90	16 (31%)
33	BCR	c	516	-	41,41,41	1.14	2 (4%)	56,56,56	1.30	9 (16%)
31	CLA	2	309	24	59,67,73	1.52	6 (10%)	68,105,113	1.49	7 (10%)
42	A86	5	317	-	44,50,50	1.29	3 (6%)	51,76,76	2.94	18 (35%)
31	CLA	c	513	-	64,72,73	1.47	6 (9%)	74,111,113	1.40	6 (8%)
36	LHG	A	412	-	42,42,48	0.68	1 (2%)	45,48,54	1.26	5 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
42	A86	2	302	-	44,50,50	1.52	6 (13%)	51,76,76	3.25	18 (35%)
33	BCR	C	516	-	41,41,41	1.13	2 (4%)	56,56,56	1.30	9 (16%)
31	CLA	7	312	24	36,44,73	2.03	6 (16%)	42,77,113	1.84	10 (23%)
31	CLA	9	212	-	37,44,73	1.99	7 (18%)	46,77,113	1.74	8 (17%)
31	CLA	d	401	-	59,67,73	1.52	6 (10%)	68,105,113	1.51	9 (13%)
31	CLA	c	506	-	65,73,73	1.44	6 (9%)	76,113,113	1.42	7 (9%)
31	CLA	C	503	-	64,72,73	1.48	6 (9%)	74,111,113	1.41	8 (10%)
44	DD6	p	611	-	39,45,45	1.99	3 (7%)	52,67,67	1.99	15 (28%)
31	CLA	c	505	-	64,72,73	1.47	6 (9%)	74,111,113	1.42	6 (8%)
31	CLA	A	404	-	49,57,73	1.66	6 (12%)	55,93,113	1.61	8 (14%)
31	CLA	P	609	-	39,47,73	1.82	7 (17%)	43,81,113	1.78	7 (16%)
42	A86	1	202	-	44,50,50	1.31	4 (9%)	51,76,76	2.90	16 (31%)
33	BCR	C	517	-	41,41,41	1.12	2 (4%)	56,56,56	1.24	7 (12%)
42	A86	4	203	-	44,50,50	1.41	3 (6%)	51,76,76	3.55	21 (41%)
31	CLA	P	606	-	35,45,73	1.99	10 (28%)	41,78,113	1.61	6 (14%)
39	DGD	C	518	-	56,56,67	0.95	3 (5%)	70,70,81	1.45	11 (15%)
31	CLA	7	315	24	37,46,73	1.90	5 (13%)	44,80,113	1.69	8 (18%)
31	CLA	6	207	-	44,52,73	1.84	7 (15%)	55,88,113	1.58	8 (14%)
32	PHO	a	406	-	51,69,69	1.00	4 (7%)	47,99,99	1.18	4 (8%)
31	CLA	4	213	-	33,43,73	2.11	9 (27%)	43,76,113	1.85	10 (23%)
31	CLA	3	312	-	40,49,73	1.82	8 (20%)	45,84,113	1.62	7 (15%)
37	LMG	C	521	-	51,51,55	0.92	2 (3%)	59,59,63	1.04	3 (5%)
33	BCR	b	519	-	41,41,41	1.13	2 (4%)	56,56,56	1.22	6 (10%)
41	HEM	F	101	6,5	41,50,50	1.45	3 (7%)	45,82,82	1.30	5 (11%)
42	A86	8	301	-	44,50,50	1.53	7 (15%)	51,76,76	5.17	24 (47%)
31	CLA	6	211	25	55,63,73	1.60	7 (12%)	64,101,113	1.45	9 (14%)
31	CLA	p	607	-	34,44,73	2.01	8 (23%)	44,77,113	1.67	7 (15%)
31	CLA	c	502	-	65,73,73	1.43	6 (9%)	76,113,113	1.44	7 (9%)
31	CLA	5	305	23	61,69,73	1.52	7 (11%)	71,108,113	1.51	7 (9%)
35	PL9	A	410	-	32,32,55	1.11	4 (12%)	39,40,69	1.55	8 (20%)
31	CLA	A	403	-	65,73,73	1.45	6 (9%)	76,113,113	1.48	7 (9%)
31	CLA	B	506	-	65,73,73	1.44	7 (10%)	76,113,113	1.45	7 (9%)
33	BCR	d	405	-	41,41,41	1.14	2 (4%)	56,56,56	1.21	7 (12%)
31	CLA	0	305	23	61,69,73	1.52	7 (11%)	71,108,113	1.51	7 (9%)
31	CLA	B	516	-	65,73,73	1.48	7 (10%)	76,113,113	1.39	8 (10%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
31	CLA	2	307	-	47,55,73	1.72	5 (10%)	54,91,113	1.59	8 (14%)
31	CLA	5	308	-	61,69,73	1.52	6 (9%)	71,108,113	1.46	8 (11%)
40	BCT	D	402	30	2,3,3	1.24	0	2,3,3	4.10	2 (100%)
42	A86	9	202	-	44,50,50	1.46	5 (11%)	51,76,76	3.56	26 (50%)
31	CLA	c	503	-	64,72,73	1.47	6 (9%)	74,111,113	1.41	8 (10%)
31	CLA	1	210	25	65,73,73	1.46	6 (9%)	76,113,113	1.44	10 (13%)
31	CLA	w	202	19	45,53,73	1.75	8 (17%)	52,89,113	1.61	10 (19%)
31	CLA	C	507	-	45,53,73	1.76	6 (13%)	52,89,113	1.63	6 (11%)
34	SQD	B	522	-	53,54,54	0.94	4 (7%)	62,65,65	1.65	12 (19%)
42	A86	0	301	-	44,50,50	1.29	3 (6%)	51,76,76	2.93	19 (37%)
31	CLA	5	304	-	41,49,73	1.84	6 (14%)	47,84,113	1.67	7 (14%)
31	CLA	B	503	-	64,72,73	1.47	7 (10%)	74,111,113	1.40	7 (9%)
31	CLA	P	607	-	34,44,73	2.01	8 (23%)	44,77,113	1.66	8 (18%)
31	CLA	0	308	-	61,69,73	1.52	7 (11%)	71,108,113	1.46	9 (12%)
31	CLA	p	603	-	36,45,73	1.89	7 (19%)	43,79,113	1.91	7 (16%)
31	CLA	8	310	-	37,43,73	2.08	9 (24%)	41,75,113	1.79	8 (19%)
31	CLA	8	304	-	36,42,73	2.10	10 (27%)	44,74,113	1.79	9 (20%)
44	DD6	6	203	-	39,45,45	2.00	3 (7%)	52,67,67	2.20	17 (32%)
31	CLA	B	511	-	64,72,73	1.49	7 (10%)	74,111,113	1.46	8 (10%)
36	LHG	D	411	-	33,33,48	0.72	0	36,39,54	1.35	4 (11%)
44	DD6	8	303	-	39,45,45	2.02	3 (7%)	52,67,67	2.77	15 (28%)
31	CLA	A	407	-	60,68,73	1.51	6 (10%)	70,107,113	1.48	10 (14%)
37	LMG	D	409	-	37,37,55	0.78	0	45,45,63	1.33	7 (15%)
31	CLA	3	313	-	38,47,73	1.84	8 (21%)	45,81,113	1.64	6 (13%)
31	CLA	d	404	-	65,73,73	1.45	7 (10%)	76,113,113	1.42	7 (9%)
31	CLA	b	504	-	64,72,73	1.46	6 (9%)	74,111,113	1.40	7 (9%)
31	CLA	b	517	-	65,73,73	1.48	7 (10%)	76,113,113	1.39	8 (10%)
42	A86	9	201	-	44,50,50	1.38	4 (9%)	51,76,76	4.06	22 (43%)
31	CLA	3	310	-	37,43,73	2.07	9 (24%)	41,75,113	1.79	8 (19%)
31	CLA	4	210	-	37,46,73	1.86	5 (13%)	44,80,113	1.82	8 (18%)
31	CLA	2	310	24	55,63,73	1.58	7 (12%)	64,101,113	1.51	9 (14%)
31	CLA	p	608	-	36,46,73	1.97	8 (22%)	45,80,113	1.76	11 (24%)
31	CLA	b	505	-	65,73,73	1.45	6 (9%)	76,113,113	1.50	8 (10%)
31	CLA	5	307	-	61,69,73	1.52	6 (9%)	71,108,113	1.43	7 (9%)
35	PL9	d	406	-	55,55,55	1.35	5 (9%)	68,69,69	1.56	13 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
31	CLA	B	509	-	65,73,73	1.48	7 (10%)	76,113,113	1.40	7 (9%)
31	CLA	0	314	23	37,46,73	1.89	6 (16%)	44,80,113	1.71	7 (15%)
31	CLA	c	514	-	49,57,73	1.63	6 (12%)	55,93,113	1.62	6 (10%)
31	CLA	B	512	-	41,49,73	1.75	7 (17%)	47,84,113	1.78	8 (17%)
36	LHG	d	407	-	46,47,48	0.63	2 (4%)	45,51,54	1.23	6 (13%)
31	CLA	C	505	-	64,72,73	1.46	6 (9%)	74,111,113	1.42	6 (8%)
31	CLA	C	511	-	65,73,73	1.46	6 (9%)	76,113,113	1.37	8 (10%)
31	CLA	p	609	-	39,47,73	1.83	7 (17%)	43,81,113	1.78	7 (16%)
36	LHG	D	412	-	27,27,48	0.87	2 (7%)	31,32,54	1.72	4 (12%)
31	CLA	p	602	-	41,49,73	1.78	7 (17%)	47,84,113	1.82	10 (21%)
33	BCR	H	101	-	41,41,41	1.12	2 (4%)	56,56,56	1.21	6 (10%)
31	CLA	6	201	-	44,52,73	1.84	7 (15%)	55,88,113	1.65	9 (16%)
31	CLA	3	311	28	39,48,73	1.85	8 (20%)	44,83,113	1.75	9 (20%)
31	CLA	C	512	3	65,73,73	1.44	7 (10%)	76,113,113	1.45	6 (7%)
31	CLA	6	210	25	65,73,73	1.45	6 (9%)	76,113,113	1.44	10 (13%)
33	BCR	A	408	-	41,41,41	1.15	2 (4%)	56,56,56	1.15	6 (10%)
37	LMG	d	409	-	37,37,55	0.79	0	45,45,63	1.33	7 (15%)
31	CLA	B	502	-	61,69,73	1.47	7 (11%)	67,106,113	1.43	6 (8%)
31	CLA	1	214	25	37,46,73	1.89	6 (16%)	44,80,113	1.76	8 (18%)
31	CLA	b	511	-	65,73,73	1.49	6 (9%)	76,113,113	1.38	6 (7%)
31	CLA	6	215	-	37,46,73	1.87	5 (13%)	44,80,113	1.71	7 (15%)
31	CLA	6	205	-	41,49,73	1.83	5 (12%)	47,84,113	1.64	7 (14%)
44	DD6	2	304	-	39,45,45	2.05	3 (7%)	52,67,67	2.51	18 (34%)
42	A86	9	203	-	44,50,50	1.40	4 (9%)	51,76,76	3.55	21 (41%)
31	CLA	W	202	19	45,53,73	1.75	7 (15%)	52,89,113	1.61	10 (19%)
31	CLA	B	501	-	43,51,73	1.79	6 (13%)	49,86,113	1.61	6 (12%)
29	OEX	A	401	1,3	0,15,15	-	-	-	-	-
33	BCR	B	517	-	41,41,41	1.19	2 (4%)	56,56,56	1.25	7 (12%)
31	CLA	C	509	-	65,73,73	1.45	7 (10%)	76,113,113	1.46	8 (10%)
31	CLA	B	510	-	65,73,73	1.48	6 (9%)	76,113,113	1.38	6 (7%)
39	DGD	c	519	-	63,63,67	0.92	3 (4%)	77,77,81	1.46	12 (15%)
31	CLA	7	306	24	45,53,73	1.76	6 (13%)	52,89,113	1.58	6 (11%)
31	CLA	8	305	-	40,49,73	1.78	9 (22%)	45,84,113	1.73	8 (17%)
32	PHO	A	405	-	51,69,69	1.03	4 (7%)	47,99,99	1.19	6 (12%)
39	DGD	C	520	-	63,63,67	0.85	2 (3%)	77,77,81	0.93	3 (3%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
31	CLA	9	211	-	34,42,73	2.09	8 (23%)	42,74,113	1.71	7 (16%)
37	LMG	M	101	-	51,51,55	0.75	1 (1%)	59,59,63	1.40	9 (15%)
33	BCR	C	515	-	41,41,41	1.13	2 (4%)	56,56,56	1.23	7 (12%)
31	CLA	2	316	-	41,49,73	1.84	5 (12%)	47,84,113	1.69	8 (17%)
33	BCR	c	517	-	41,41,41	1.12	2 (4%)	56,56,56	1.24	7 (12%)
37	LMG	m	102	-	40,40,55	0.86	1 (2%)	48,48,63	1.30	4 (8%)
44	DD6	3	303	-	39,45,45	2.01	3 (7%)	52,67,67	2.77	15 (28%)
31	CLA	2	315	24	37,46,73	1.91	5 (13%)	44,80,113	1.68	7 (15%)
34	SQD	5	316	-	47,48,54	1.03	5 (10%)	56,59,65	1.45	8 (14%)
31	CLA	B	508	-	65,73,73	1.47	6 (9%)	76,113,113	1.40	7 (9%)
31	CLA	C	508	-	65,73,73	1.45	7 (10%)	76,113,113	1.43	6 (7%)
31	CLA	7	314	-	37,46,73	1.90	6 (16%)	44,80,113	1.74	8 (18%)
31	CLA	1	215	-	37,46,73	1.87	5 (13%)	44,80,113	1.71	7 (15%)
39	DGD	c	520	-	63,63,67	0.85	2 (3%)	77,77,81	0.93	3 (3%)
31	CLA	0	310	23	55,63,73	1.60	7 (12%)	64,101,113	1.47	8 (12%)
31	CLA	P	604	-	39,48,73	1.79	7 (17%)	44,83,113	1.84	7 (15%)
31	CLA	Z	101	-	51,59,73	1.69	6 (11%)	59,96,113	1.46	8 (13%)
31	CLA	5	314	23	37,46,73	1.90	6 (16%)	44,80,113	1.70	7 (15%)
31	CLA	6	214	25	37,46,73	1.88	6 (16%)	44,80,113	1.75	8 (18%)
31	CLA	b	510	-	65,73,73	1.47	7 (10%)	76,113,113	1.41	7 (9%)
31	CLA	6	208	-	47,55,73	1.72	5 (10%)	54,91,113	1.57	7 (12%)
32	PHO	a	405	-	51,69,69	1.03	4 (7%)	47,99,99	1.19	6 (12%)
31	CLA	B	513	-	65,73,73	1.45	6 (9%)	76,113,113	1.41	8 (10%)
36	LHG	d	411	-	33,33,48	0.72	0	36,39,54	1.34	4 (11%)
31	CLA	4	206	-	35,45,73	1.98	8 (22%)	41,78,113	1.63	6 (14%)
31	CLA	3	314	-	36,43,73	1.98	8 (22%)	45,76,113	1.70	9 (20%)
31	CLA	1	208	-	47,55,73	1.73	5 (10%)	54,91,113	1.58	7 (12%)
31	CLA	C	504	-	51,59,73	1.64	6 (11%)	59,96,113	1.61	8 (13%)
31	CLA	c	508	-	65,73,73	1.45	7 (10%)	76,113,113	1.43	6 (7%)
31	CLA	7	309	24	59,67,73	1.52	6 (10%)	68,105,113	1.48	7 (10%)
34	SQD	B	523	-	39,40,54	1.10	5 (12%)	48,51,65	1.76	12 (25%)
33	BCR	a	408	-	41,41,41	1.14	2 (4%)	56,56,56	1.16	5 (8%)
43	ET4	0	302	-	41,43,43	1.73	11 (26%)	54,60,60	2.22	17 (31%)
37	LMG	5	315	-	48,48,55	0.77	0	56,56,63	1.29	6 (10%)
31	CLA	P	608	-	36,46,73	1.96	8 (22%)	45,80,113	1.74	11 (24%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
35	PL9	a	410	-	32,32,55	1.10	4 (12%)	39,40,69	1.55	8 (20%)
31	CLA	6	209	-	44,52,73	1.83	7 (15%)	55,88,113	1.61	9 (16%)
31	CLA	8	311	28	39,48,73	1.85	9 (23%)	44,83,113	1.76	8 (18%)
37	LMG	0	315	-	48,48,55	0.77	0	56,56,63	1.29	6 (10%)
31	CLA	c	504	-	51,59,73	1.64	7 (13%)	59,96,113	1.61	8 (13%)
31	CLA	b	513	-	41,49,73	1.75	7 (17%)	47,84,113	1.78	8 (17%)
44	DD6	1	203	-	39,45,45	2.00	3 (7%)	52,67,67	2.20	17 (32%)
31	CLA	B	507	-	41,49,73	1.80	6 (14%)	47,84,113	1.71	7 (14%)
37	LMG	Y	101	-	46,46,55	0.75	1 (2%)	54,54,63	1.38	10 (18%)
43	ET4	5	302	-	41,43,43	1.73	11 (26%)	54,60,60	2.22	17 (31%)
31	CLA	2	313	24	37,46,73	1.91	6 (16%)	44,80,113	1.66	7 (15%)
31	CLA	3	304	-	36,42,73	2.10	10 (27%)	44,74,113	1.80	9 (20%)
31	CLA	7	308	-	44,52,73	1.86	6 (13%)	55,88,113	1.63	8 (14%)
31	CLA	3	305	-	40,49,73	1.79	9 (22%)	45,84,113	1.73	7 (15%)
31	CLA	B	514	-	60,68,73	1.51	7 (11%)	69,106,113	1.43	8 (11%)
31	CLA	2	311	-	43,51,73	1.78	6 (13%)	49,86,113	1.56	6 (12%)
31	CLA	2	312	24	36,44,73	2.02	6 (16%)	42,77,113	1.82	9 (21%)
31	CLA	6	213	25	39,48,73	1.88	5 (12%)	44,83,113	1.63	7 (15%)
42	A86	7	301	-	44,50,50	1.30	3 (6%)	51,76,76	2.97	19 (37%)
33	BCR	b	520	-	41,41,41	1.13	2 (4%)	56,56,56	1.27	8 (14%)
36	LHG	a	411	-	42,42,48	0.68	1 (2%)	45,48,54	1.26	5 (11%)
31	CLA	B	515	-	65,73,73	1.49	7 (10%)	76,113,113	1.41	7 (9%)
32	PHO	A	406	-	51,69,69	1.00	4 (7%)	47,99,99	1.18	4 (8%)
31	CLA	7	307	-	47,55,73	1.72	5 (10%)	54,91,113	1.59	8 (14%)
31	CLA	c	507	-	45,53,73	1.75	6 (13%)	52,89,113	1.63	6 (11%)
31	CLA	0	304	-	41,49,73	1.84	6 (14%)	47,84,113	1.69	7 (14%)
31	CLA	1	206	25	45,53,73	1.72	6 (13%)	52,89,113	1.66	8 (15%)
31	CLA	9	208	-	39,48,73	1.86	9 (23%)	44,83,113	1.79	10 (22%)
31	CLA	B	505	-	65,73,73	1.46	7 (10%)	76,113,113	1.40	7 (9%)
31	CLA	7	313	24	37,46,73	1.91	5 (13%)	44,80,113	1.65	7 (15%)
44	DD6	P	611	-	39,45,45	1.99	2 (5%)	52,67,67	1.99	15 (28%)
33	BCR	D	405	-	41,41,41	1.14	2 (4%)	56,56,56	1.20	7 (12%)
31	CLA	5	306	-	45,53,73	1.76	6 (13%)	52,89,113	1.58	6 (11%)
31	CLA	3	309	-	39,48,73	1.82	8 (20%)	44,83,113	1.86	7 (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
31	CLA	9	213	-	1/1/8/20	-	-
33	BCR	K	101	-	-	16/29/63/63	0/2/2/2
31	CLA	6	212	-	1/1/10/20	4/8/86/115	-
44	DD6	2	303	-	-	2/26/80/80	0/3/3/3
39	DGD	c	518	-	-	19/44/84/95	0/2/2/2
42	A86	5	301	-	-	10/34/90/90	0/3/3/3
41	HEM	V	201	18	-	5/12/54/54	-
31	CLA	5	312	-	1/1/10/20	8/10/88/115	-
39	DGD	h	102	-	-	16/51/91/95	0/2/2/2
31	CLA	8	312	-	1/1/10/20	2/8/86/115	-
42	A86	7	302	-	-	8/34/90/90	0/3/3/3
44	DD6	7	303	-	-	2/26/80/80	0/3/3/3
31	CLA	9	204	-	1/1/9/20	0/2/80/115	-
36	LHG	b	522	-	-	18/53/53/53	-
31	CLA	b	508	-	1/1/10/20	2/8/86/115	-
31	CLA	3	306	-	1/1/7/20	-	-
37	LMG	j	101	-	-	29/45/65/70	0/1/1/1
31	CLA	a	404	-	1/1/11/20	2/18/96/115	-
37	LMG	D	410	-	-	16/35/55/70	0/1/1/1
31	CLA	3	308	-	1/1/6/20	2/4/66/115	-
31	CLA	C	513	-	1/1/14/20	17/35/113/115	-
37	LMG	d	410	-	-	16/35/55/70	0/1/1/1
37	LMG	b	521	-	-	5/23/43/70	0/1/1/1
36	LHG	H	103	-	-	10/46/46/53	-
37	LMG	M	102	-	-	12/35/55/70	0/1/1/1
33	BCR	b	518	-	-	5/29/63/63	0/2/2/2
31	CLA	p	601	26	1/1/9/20	0/0/78/115	-
31	CLA	b	507	-	1/1/15/20	6/37/115/115	-
36	LHG	d	412	-	-	17/29/29/53	-
31	CLA	9	206	-	1/1/8/20	0/2/76/115	-
31	CLA	2	314	-	1/1/9/20	0/2/80/115	-
31	CLA	p	604	-	1/1/10/20	2/6/84/115	-
31	CLA	1	201	-	1/1/11/20	4/13/89/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
42	A86	8	302	-	-	5/34/90/90	0/3/3/3
31	CLA	D	403	-	1/1/14/20	7/33/109/115	-
34	SQD	A	409	-	-	16/49/69/69	0/1/1/1
36	LHG	A	413	-	-	13/29/29/53	-
36	LHG	a	412	-	-	13/29/29/53	-
31	CLA	1	205	-	1/1/10/20	2/8/86/115	-
35	PL9	D	406	-	-	8/53/73/73	0/1/1/1
31	CLA	b	509	-	1/1/15/20	8/37/115/115	-
31	CLA	P	603	-	1/1/9/20	0/0/78/115	-
31	CLA	2	306	24	1/1/11/20	3/13/91/115	-
31	CLA	1	207	-	1/1/11/20	6/13/89/115	-
37	LMG	W	201	-	-	26/43/63/70	0/1/1/1
31	CLA	8	309	-	1/1/10/20	1/6/84/115	-
31	CLA	4	205	-	1/1/7/20	0/2/70/115	-
37	LMG	D	408	-	-	16/41/61/70	0/1/1/1
31	CLA	0	312	-	1/1/10/20	8/10/88/115	-
31	CLA	8	308	-	1/1/6/20	2/4/66/115	-
31	CLA	P	602	-	1/1/10/20	2/8/86/115	-
42	A86	0	317	-	-	8/34/90/90	0/3/3/3
31	CLA	0	309	23	1/1/10/20	2/8/86/115	-
34	SQD	A	411	-	-	17/49/69/69	0/1/1/1
42	A86	4	202	-	-	7/34/90/90	0/3/3/3
37	LMG	w	201	-	-	26/43/63/70	0/1/1/1
31	CLA	C	510	-	1/1/15/20	6/37/115/115	-
42	A86	4	201	-	-	7/34/90/90	1/3/3/3
36	LHG	B	521	-	-	18/53/53/53	-
37	LMG	y	101	-	-	18/41/61/70	0/1/1/1
34	SQD	b	501	-	-	14/35/55/69	0/1/1/1
42	A86	0	303	-	-	5/34/90/90	0/3/3/3
31	CLA	b	502	-	1/1/10/20	5/11/89/115	-
31	CLA	4	209	-	1/1/10/20	4/8/86/115	-
31	CLA	9	205	-	1/1/7/20	0/2/70/115	-
31	CLA	p	605	-	1/1/9/20	0/0/78/115	-
31	CLA	1	212	-	1/1/10/20	4/8/86/115	-
31	CLA	b	503	-	1/1/12/20	13/27/107/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CLA	C	502	-	1/1/15/20	14/37/115/115	-
42	A86	3	302	-	-	5/34/90/90	0/3/3/3
31	CLA	6	206	25	1/1/11/20	8/13/91/115	-
31	CLA	1	213	25	1/1/10/20	4/6/84/115	-
31	CLA	9	207	-	1/1/9/20	0/2/80/115	-
31	CLA	7	310	24	1/1/13/20	10/25/103/115	-
31	CLA	c	510	-	1/1/15/20	6/37/115/115	-
31	CLA	7	305	-	1/1/10/20	4/8/86/115	-
33	BCR	h	101	-	-	6/29/63/63	0/2/2/2
31	CLA	z	101	-	1/1/12/20	6/21/99/115	-
31	CLA	4	212	-	1/1/8/20	0/2/74/115	-
41	HEM	f	101	6,5	-	4/12/54/54	-
31	CLA	1	209	-	1/1/11/20	6/13/89/115	-
42	A86	2	301	-	-	8/34/90/90	0/3/3/3
31	CLA	p	606	-	1/1/8/20	0/2/76/115	-
42	A86	5	303	-	-	5/34/90/90	0/3/3/3
42	A86	p	610	-	-	9/34/90/90	0/3/3/3
37	LMG	c	521	-	-	27/46/66/70	0/1/1/1
31	CLA	D	401	-	1/1/13/20	4/30/108/115	-
31	CLA	8	307	-	1/1/9/20	2/9/83/115	-
31	CLA	5	309	23	1/1/10/20	2/8/86/115	-
37	LMG	J	101	-	-	29/45/65/70	0/1/1/1
31	CLA	P	605	-	1/1/9/20	0/0/78/115	-
31	CLA	0	306	-	1/1/11/20	4/13/91/115	-
31	CLA	6	216	25	1/1/9/20	0/2/80/115	-
31	CLA	4	208	-	1/1/10/20	0/6/84/115	-
31	CLA	b	506	-	1/1/15/20	12/37/115/115	-
31	CLA	7	311	-	1/1/10/20	7/11/89/115	-
31	CLA	4	204	-	1/1/9/20	0/2/80/115	-
41	HEM	v	201	18	-	5/12/54/54	-
31	CLA	5	313	23	1/1/9/20	0/2/80/115	-
36	LHG	D	407	-	-	23/47/51/53	-
31	CLA	C	506	-	1/1/15/20	18/37/115/115	-
31	CLA	c	512	3	1/1/15/20	10/37/115/115	-
31	CLA	0	311	-	1/1/11/20	9/13/91/115	-
31	CLA	b	516	-	1/1/15/20	6/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CLA	5	310	23	1/1/13/20	5/25/103/115	-
31	CLA	D	404	-	1/1/15/20	9/37/115/115	-
31	CLA	0	307	-	1/1/14/20	19/33/111/115	-
42	A86	3	301	-	-	11/34/90/90	0/3/3/3
31	CLA	3	307	-	1/1/9/20	2/9/83/115	-
37	LMG	B	520	-	-	5/23/43/70	0/1/1/1
33	BCR	B	518	-	-	5/29/63/63	0/2/2/2
31	CLA	d	403	-	1/1/14/20	7/33/109/115	-
31	CLA	7	316	-	1/1/10/20	2/8/86/115	-
31	CLA	9	209	-	1/1/10/20	4/8/86/115	-
31	CLA	1	211	25	1/1/13/20	5/25/103/115	-
39	DGD	C	519	-	-	21/51/91/95	0/2/2/2
31	CLA	c	509	-	1/1/15/20	13/37/115/115	-
34	SQD	a	409	-	-	16/49/69/69	0/1/1/1
31	CLA	C	514	-	1/1/11/20	4/18/96/115	-
42	A86	P	610	-	-	9/34/90/90	0/3/3/3
31	CLA	0	313	23	1/1/9/20	0/2/80/115	-
31	CLA	1	216	25	1/1/9/20	0/2/80/115	-
31	CLA	a	407	-	1/1/14/20	4/31/109/115	-
31	CLA	5	311	-	1/1/11/20	9/13/91/115	-
36	LHG	h	103	-	-	10/46/46/53	-
33	BCR	B	519	-	-	11/29/63/63	0/2/2/2
31	CLA	a	403	-	1/1/15/20	12/37/115/115	-
31	CLA	8	313	-	1/1/9/20	1/4/82/115	-
31	CLA	4	211	-	1/1/7/20	-	-
31	CLA	2	308	-	1/1/11/20	7/13/89/115	-
39	DGD	H	102	-	-	16/51/91/95	0/2/2/2
31	CLA	8	314	-	1/1/8/20	-	-
31	CLA	9	210	-	1/1/9/20	0/2/80/115	-
31	CLA	B	504	-	1/1/15/20	15/37/115/115	-
44	DD6	6	204	-	-	5/26/80/80	0/3/3/3
33	BCR	k	101	-	-	16/29/63/63	0/2/2/2
44	DD6	1	204	-	-	5/26/80/80	0/3/3/3
31	CLA	8	306	-	1/1/7/20	-	-
31	CLA	P	601	26	1/1/9/20	0/0/78/115	-
34	SQD	0	316	-	-	18/43/63/69	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CLA	b	515	-	1/1/13/20	13/31/109/115	-
31	CLA	c	511	-	1/1/15/20	13/37/115/115	-
31	CLA	b	512	-	1/1/14/20	11/35/113/115	-
37	LMG	d	408	-	-	16/41/61/70	0/1/1/1
33	BCR	c	515	-	-	3/29/63/63	0/2/2/2
37	LMG	m	101	-	-	18/46/66/70	0/1/1/1
44	DD6	7	304	-	-	10/26/80/80	0/3/3/3
31	CLA	2	305	-	1/1/10/20	4/8/86/115	-
31	CLA	b	514	-	1/1/15/20	7/37/115/115	-
31	CLA	4	207	-	1/1/9/20	0/2/80/115	-
42	A86	6	202	-	-	7/34/90/90	0/3/3/3
33	BCR	c	516	-	-	6/29/63/63	0/2/2/2
31	CLA	2	309	24	1/1/13/20	10/30/108/115	-
42	A86	5	317	-	-	8/34/90/90	0/3/3/3
31	CLA	c	513	-	1/1/14/20	17/35/113/115	-
36	LHG	A	412	-	-	13/47/47/53	-
42	A86	2	302	-	-	8/34/90/90	0/3/3/3
33	BCR	C	516	-	-	6/29/63/63	0/2/2/2
31	CLA	7	312	24	1/1/9/20	0/0/78/115	-
31	CLA	9	212	-	1/1/8/20	0/2/74/115	-
31	CLA	d	401	-	1/1/13/20	4/30/108/115	-
31	CLA	c	506	-	1/1/15/20	18/37/115/115	-
31	CLA	C	503	-	1/1/14/20	14/35/113/115	-
44	DD6	p	611	-	-	5/26/80/80	0/3/3/3
31	CLA	c	505	-	1/1/14/20	10/35/113/115	-
31	CLA	A	404	-	1/1/11/20	2/18/96/115	-
31	CLA	P	609	-	1/1/9/20	2/4/82/115	-
42	A86	1	202	-	-	7/34/90/90	0/3/3/3
33	BCR	C	517	-	-	3/29/63/63	0/2/2/2
42	A86	4	203	-	-	5/34/90/90	0/3/3/3
31	CLA	P	606	-	1/1/8/20	0/2/76/115	-
39	DGD	C	518	-	-	19/44/84/95	0/2/2/2
31	CLA	7	315	24	1/1/9/20	0/2/80/115	-
31	CLA	6	207	-	1/1/11/20	6/13/89/115	-
32	PHO	a	406	-	-	11/37/103/103	0/5/6/6

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CLA	4	213	-	1/1/8/20	-	-
31	CLA	3	312	-	1/1/10/20	2/8/86/115	-
37	LMG	C	521	-	-	27/46/66/70	0/1/1/1
33	BCR	b	519	-	-	5/29/63/63	0/2/2/2
41	HEM	F	101	6,5	-	4/12/54/54	-
42	A86	8	301	-	-	11/34/90/90	0/3/3/3
31	CLA	6	211	25	1/1/13/20	5/25/103/115	-
31	CLA	p	607	-	1/1/8/20	0/2/74/115	-
31	CLA	c	502	-	1/1/15/20	14/37/115/115	-
31	CLA	5	305	23	1/1/14/20	17/33/111/115	-
35	PL9	A	410	-	-	13/25/45/73	0/1/1/1
31	CLA	A	403	-	1/1/15/20	12/37/115/115	-
31	CLA	B	506	-	1/1/15/20	6/37/115/115	-
33	BCR	d	405	-	-	5/29/63/63	0/2/2/2
31	CLA	0	305	23	1/1/14/20	17/33/111/115	-
31	CLA	B	516	-	1/1/15/20	11/37/115/115	-
31	CLA	2	307	-	1/1/11/20	5/16/94/115	-
31	CLA	5	308	-	1/1/14/20	14/33/111/115	-
42	A86	9	202	-	-	7/34/90/90	0/3/3/3
31	CLA	c	503	-	1/1/14/20	14/35/113/115	-
31	CLA	1	210	25	1/1/15/20	16/37/115/115	-
31	CLA	w	202	19	1/1/11/20	2/13/91/115	-
31	CLA	C	507	-	1/1/11/20	5/13/91/115	-
34	SQD	B	522	-	-	17/49/69/69	0/1/1/1
42	A86	0	301	-	-	10/34/90/90	0/3/3/3
31	CLA	5	304	-	1/1/10/20	2/8/86/115	-
31	CLA	B	503	-	1/1/14/20	12/35/113/115	-
31	CLA	P	607	-	1/1/8/20	0/2/74/115	-
31	CLA	0	308	-	1/1/14/20	14/33/111/115	-
31	CLA	p	603	-	1/1/9/20	0/0/78/115	-
31	CLA	8	310	-	1/1/8/20	0/0/74/115	-
31	CLA	8	304	-	1/1/8/20	-	-
44	DD6	6	203	-	-	2/26/80/80	0/3/3/3
31	CLA	B	511	-	1/1/14/20	11/35/113/115	-
36	LHG	D	411	-	-	26/38/38/53	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	DD6	8	303	-	-	2/26/80/80	0/3/3/3
31	CLA	A	407	-	1/1/14/20	4/31/109/115	-
37	LMG	D	409	-	-	13/32/52/70	0/1/1/1
31	CLA	3	313	-	1/1/9/20	1/4/82/115	-
31	CLA	d	404	-	1/1/15/20	9/37/115/115	-
31	CLA	b	504	-	1/1/14/20	12/35/113/115	-
31	CLA	b	517	-	1/1/15/20	11/37/115/115	-
42	A86	9	201	-	-	7/34/90/90	1/3/3/3
31	CLA	3	310	-	1/1/8/20	0/0/74/115	-
31	CLA	4	210	-	1/1/9/20	0/2/80/115	-
31	CLA	2	310	24	1/1/13/20	10/25/103/115	-
31	CLA	p	608	-	1/1/9/20	3/6/78/115	-
31	CLA	b	505	-	1/1/15/20	15/37/115/115	-
31	CLA	5	307	-	1/1/14/20	19/33/111/115	-
35	PL9	d	406	-	-	8/53/73/73	0/1/1/1
31	CLA	B	509	-	1/1/15/20	12/37/115/115	-
31	CLA	0	314	23	1/1/9/20	0/2/80/115	-
31	CLA	c	514	-	1/1/11/20	4/18/96/115	-
31	CLA	B	512	-	1/1/10/20	2/8/86/115	-
36	LHG	d	407	-	-	23/47/51/53	-
31	CLA	C	505	-	1/1/14/20	10/35/113/115	-
31	CLA	C	511	-	1/1/15/20	13/37/115/115	-
31	CLA	p	609	-	1/1/9/20	2/4/82/115	-
36	LHG	D	412	-	-	17/29/29/53	-
31	CLA	p	602	-	1/1/10/20	2/8/86/115	-
33	BCR	H	101	-	-	6/29/63/63	0/2/2/2
31	CLA	6	201	-	1/1/11/20	4/13/89/115	-
31	CLA	3	311	28	1/1/10/20	0/6/84/115	-
31	CLA	C	512	3	1/1/15/20	10/37/115/115	-
31	CLA	6	210	25	1/1/15/20	16/37/115/115	-
33	BCR	A	408	-	-	4/29/63/63	0/2/2/2
37	LMG	d	409	-	-	13/32/52/70	0/1/1/1
31	CLA	B	502	-	1/1/12/20	13/27/107/115	-
31	CLA	1	214	25	1/1/9/20	0/2/80/115	-
31	CLA	b	511	-	1/1/15/20	9/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CLA	6	215	-	1/1/9/20	0/2/80/115	-
31	CLA	6	205	-	1/1/10/20	2/8/86/115	-
44	DD6	2	304	-	-	10/26/80/80	0/3/3/3
42	A86	9	203	-	-	5/34/90/90	0/3/3/3
31	CLA	W	202	19	1/1/11/20	2/13/91/115	-
31	CLA	B	501	-	1/1/10/20	5/11/89/115	-
33	BCR	B	517	-	-	5/29/63/63	0/2/2/2
31	CLA	C	509	-	1/1/15/20	13/37/115/115	-
31	CLA	B	510	-	1/1/15/20	9/37/115/115	-
39	DGD	c	519	-	-	21/51/91/95	0/2/2/2
31	CLA	7	306	24	1/1/11/20	3/13/91/115	-
31	CLA	8	305	-	1/1/10/20	1/8/86/115	-
32	PHO	A	405	-	-	10/37/103/103	0/5/6/6
39	DGD	C	520	-	-	9/51/91/95	0/2/2/2
31	CLA	9	211	-	1/1/7/20	-	-
37	LMG	M	101	-	-	18/46/66/70	0/1/1/1
33	BCR	C	515	-	-	3/29/63/63	0/2/2/2
31	CLA	2	316	-	1/1/10/20	2/8/86/115	-
33	BCR	c	517	-	-	3/29/63/63	0/2/2/2
37	LMG	m	102	-	-	12/35/55/70	0/1/1/1
44	DD6	3	303	-	-	3/26/80/80	0/3/3/3
31	CLA	2	315	24	1/1/9/20	0/2/80/115	-
34	SQD	5	316	-	-	18/43/63/69	0/1/1/1
31	CLA	B	508	-	1/1/15/20	8/37/115/115	-
31	CLA	C	508	-	1/1/15/20	16/37/115/115	-
31	CLA	7	314	-	1/1/9/20	0/2/80/115	-
31	CLA	1	215	-	1/1/9/20	0/2/80/115	-
39	DGD	c	520	-	-	9/51/91/95	0/2/2/2
31	CLA	0	310	23	1/1/13/20	5/25/103/115	-
31	CLA	P	604	-	1/1/10/20	2/6/84/115	-
31	CLA	Z	101	-	1/1/12/20	6/21/99/115	-
31	CLA	5	314	23	1/1/9/20	0/2/80/115	-
31	CLA	6	214	25	1/1/9/20	0/2/80/115	-
31	CLA	b	510	-	1/1/15/20	12/37/115/115	-
31	CLA	6	208	-	1/1/11/20	7/16/94/115	-
32	PHO	a	405	-	-	10/37/103/103	0/5/6/6

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	CLA	B	513	-	1/1/15/20	7/37/115/115	-
36	LHG	d	411	-	-	26/38/38/53	-
31	CLA	4	206	-	1/1/8/20	0/2/76/115	-
31	CLA	3	314	-	1/1/8/20	-	-
31	CLA	1	208	-	1/1/11/20	7/16/94/115	-
31	CLA	C	504	-	1/1/12/20	5/21/99/115	-
31	CLA	c	508	-	1/1/15/20	16/37/115/115	-
31	CLA	7	309	24	1/1/13/20	10/30/108/115	-
34	SQD	B	523	-	-	14/35/55/69	0/1/1/1
33	BCR	a	408	-	-	4/29/63/63	0/2/2/2
43	ET4	0	302	-	-	9/25/67/67	0/2/2/2
37	LMG	5	315	-	-	25/43/63/70	0/1/1/1
31	CLA	P	608	-	1/1/9/20	3/6/78/115	-
35	PL9	a	410	-	-	13/25/45/73	0/1/1/1
31	CLA	6	209	-	1/1/11/20	6/13/89/115	-
31	CLA	8	311	28	1/1/10/20	0/6/84/115	-
37	LMG	0	315	-	-	25/43/63/70	0/1/1/1
31	CLA	c	504	-	1/1/12/20	5/21/99/115	-
31	CLA	b	513	-	1/1/10/20	2/8/86/115	-
44	DD6	1	203	-	-	2/26/80/80	0/3/3/3
31	CLA	B	507	-	1/1/10/20	2/8/86/115	-
37	LMG	Y	101	-	-	18/41/61/70	0/1/1/1
43	ET4	5	302	-	-	9/25/67/67	0/2/2/2
31	CLA	2	313	24	1/1/9/20	0/2/80/115	-
31	CLA	3	304	-	1/1/8/20	-	-
31	CLA	7	308	-	1/1/11/20	7/13/89/115	-
31	CLA	3	305	-	1/1/10/20	1/8/86/115	-
31	CLA	B	514	-	1/1/13/20	13/31/109/115	-
31	CLA	2	311	-	1/1/10/20	7/11/89/115	-
31	CLA	2	312	24	1/1/9/20	0/0/78/115	-
31	CLA	6	213	25	1/1/10/20	4/6/84/115	-
42	A86	7	301	-	-	8/34/90/90	0/3/3/3
33	BCR	b	520	-	-	11/29/63/63	0/2/2/2
36	LHG	a	411	-	-	13/47/47/53	-
31	CLA	B	515	-	1/1/15/20	6/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	PHO	A	406	-	-	11/37/103/103	0/5/6/6
31	CLA	7	307	-	1/1/11/20	5/16/94/115	-
31	CLA	c	507	-	1/1/11/20	5/13/91/115	-
31	CLA	0	304	-	1/1/10/20	2/8/86/115	-
31	CLA	1	206	25	1/1/11/20	8/13/91/115	-
31	CLA	9	208	-	1/1/10/20	0/6/84/115	-
31	CLA	B	505	-	1/1/15/20	12/37/115/115	-
31	CLA	7	313	24	1/1/9/20	0/2/80/115	-
44	DD6	P	611	-	-	5/26/80/80	0/3/3/3
33	BCR	D	405	-	-	5/29/63/63	0/2/2/2
31	CLA	5	306	-	1/1/11/20	4/13/91/115	-
31	CLA	3	309	-	1/1/10/20	1/6/84/115	-

All (1741) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	1	204	DD6	C29-C27	-9.33	1.24	1.42
44	6	204	DD6	C29-C27	-9.29	1.24	1.42
44	7	304	DD6	C29-C27	-8.72	1.25	1.42
44	2	304	DD6	C29-C27	-8.68	1.25	1.42
44	3	303	DD6	C29-C27	-8.61	1.26	1.42
44	8	303	DD6	C29-C27	-8.61	1.26	1.42
44	6	204	DD6	C30-C31	-8.49	1.24	1.42
44	P	611	DD6	C29-C27	-8.47	1.26	1.42
44	p	611	DD6	C29-C27	-8.47	1.26	1.42
44	1	204	DD6	C30-C31	-8.44	1.24	1.42
44	7	303	DD6	C29-C27	-8.38	1.26	1.42
44	6	203	DD6	C29-C27	-8.38	1.26	1.42
44	1	203	DD6	C29-C27	-8.36	1.26	1.42
44	2	303	DD6	C29-C27	-8.35	1.26	1.42
44	7	304	DD6	C30-C31	-8.02	1.25	1.42
44	2	304	DD6	C30-C31	-8.02	1.25	1.42
31	8	310	CLA	C4B-NB	7.82	1.42	1.35
31	3	310	CLA	C4B-NB	7.79	1.42	1.35
44	P	611	DD6	C30-C31	-7.73	1.26	1.42
44	1	203	DD6	C30-C31	-7.69	1.26	1.42
44	p	611	DD6	C30-C31	-7.68	1.26	1.42
44	7	303	DD6	C30-C31	-7.64	1.26	1.42
44	2	303	DD6	C30-C31	-7.64	1.26	1.42
44	6	203	DD6	C30-C31	-7.63	1.26	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	9	211	CLA	C4B-NB	7.62	1.42	1.35
44	8	303	DD6	C30-C31	-7.58	1.26	1.42
31	4	211	CLA	C4B-NB	7.58	1.42	1.35
44	3	303	DD6	C30-C31	-7.56	1.26	1.42
31	5	304	CLA	C4B-NB	7.53	1.41	1.35
31	7	308	CLA	C4B-NB	7.52	1.41	1.35
31	7	305	CLA	C4B-NB	7.50	1.41	1.35
31	4	206	CLA	C4B-NB	7.49	1.41	1.35
31	z	101	CLA	C4B-NB	7.48	1.41	1.35
31	9	206	CLA	C4B-NB	7.47	1.41	1.35
31	Z	101	CLA	C4B-NB	7.47	1.41	1.35
31	b	502	CLA	C4B-NB	7.46	1.41	1.35
31	2	313	CLA	C4B-NB	7.46	1.41	1.35
31	B	501	CLA	C4B-NB	7.45	1.41	1.35
31	2	316	CLA	C4B-NB	7.44	1.41	1.35
31	2	305	CLA	C4B-NB	7.44	1.41	1.35
31	9	213	CLA	C4B-NB	7.43	1.41	1.35
31	p	601	CLA	C4B-NB	7.42	1.41	1.35
31	4	212	CLA	C4B-NB	7.42	1.41	1.35
31	0	304	CLA	C4B-NB	7.42	1.41	1.35
31	6	213	CLA	C4B-NB	7.41	1.41	1.35
31	1	213	CLA	C4B-NB	7.41	1.41	1.35
31	7	306	CLA	C4B-NB	7.41	1.41	1.35
31	B	515	CLA	C4B-NB	7.40	1.41	1.35
31	b	511	CLA	C4B-NB	7.40	1.41	1.35
31	P	601	CLA	C4B-NB	7.39	1.41	1.35
31	2	314	CLA	C4B-NB	7.39	1.41	1.35
31	9	212	CLA	C4B-NB	7.39	1.41	1.35
31	5	314	CLA	C4B-NB	7.39	1.41	1.35
31	1	216	CLA	C4B-NB	7.39	1.41	1.35
31	2	308	CLA	C4B-NB	7.38	1.41	1.35
31	7	313	CLA	C4B-NB	7.38	1.41	1.35
31	b	516	CLA	C4B-NB	7.37	1.41	1.35
31	4	213	CLA	C4B-NB	7.36	1.41	1.35
31	3	304	CLA	C4B-NB	7.35	1.41	1.35
31	7	314	CLA	C4B-NB	7.35	1.41	1.35
31	B	510	CLA	C4B-NB	7.34	1.41	1.35
31	8	304	CLA	C4B-NB	7.34	1.41	1.35
31	0	313	CLA	C4B-NB	7.34	1.41	1.35
31	7	315	CLA	C4B-NB	7.33	1.41	1.35
31	1	208	CLA	C4B-NB	7.32	1.41	1.35
31	7	312	CLA	C4B-NB	7.31	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	1	214	CLA	C4B-NB	7.31	1.41	1.35
31	0	314	CLA	C4B-NB	7.31	1.41	1.35
31	6	216	CLA	C4B-NB	7.31	1.41	1.35
31	6	205	CLA	C4B-NB	7.31	1.41	1.35
31	5	313	CLA	C4B-NB	7.30	1.41	1.35
31	7	316	CLA	C4B-NB	7.29	1.41	1.35
31	1	211	CLA	C4B-NB	7.29	1.41	1.35
31	6	201	CLA	C4B-NB	7.29	1.41	1.35
31	6	208	CLA	C4B-NB	7.29	1.41	1.35
31	1	201	CLA	C4B-NB	7.29	1.41	1.35
31	1	205	CLA	C4B-NB	7.28	1.41	1.35
31	0	307	CLA	C4B-NB	7.28	1.41	1.35
31	2	315	CLA	C4B-NB	7.28	1.41	1.35
31	D	403	CLA	C4B-NB	7.28	1.41	1.35
31	6	207	CLA	C4B-NB	7.27	1.41	1.35
31	2	306	CLA	C4B-NB	7.27	1.41	1.35
31	2	311	CLA	C4B-NB	7.27	1.41	1.35
31	0	311	CLA	C4B-NB	7.27	1.41	1.35
31	c	513	CLA	C4B-NB	7.26	1.41	1.35
31	0	310	CLA	C4B-NB	7.26	1.41	1.35
31	w	202	CLA	C4B-NB	7.26	1.41	1.35
31	0	309	CLA	C4B-NB	7.26	1.41	1.35
31	7	311	CLA	C4B-NB	7.26	1.41	1.35
31	1	207	CLA	C4B-NB	7.25	1.41	1.35
31	d	403	CLA	C4B-NB	7.25	1.41	1.35
31	C	513	CLA	C4B-NB	7.24	1.41	1.35
31	3	308	CLA	C4B-NB	7.24	1.41	1.35
31	1	210	CLA	C4B-NB	7.24	1.41	1.35
31	W	202	CLA	C4B-NB	7.24	1.41	1.35
31	9	204	CLA	C4B-NB	7.24	1.41	1.35
31	5	307	CLA	C4B-NB	7.23	1.41	1.35
31	5	306	CLA	C4B-NB	7.23	1.41	1.35
31	4	204	CLA	C4B-NB	7.22	1.41	1.35
31	b	517	CLA	C4B-NB	7.22	1.41	1.35
31	3	306	CLA	C4B-NB	7.22	1.41	1.35
31	6	209	CLA	C4B-NB	7.21	1.41	1.35
31	1	209	CLA	C4B-NB	7.21	1.41	1.35
31	5	308	CLA	C4B-NB	7.21	1.41	1.35
31	0	308	CLA	C4B-NB	7.21	1.41	1.35
31	1	212	CLA	C4B-NB	7.21	1.41	1.35
31	b	512	CLA	C4B-NB	7.21	1.41	1.35
31	6	214	CLA	C4B-NB	7.20	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	508	CLA	C4B-NB	7.20	1.41	1.35
31	6	211	CLA	C4B-NB	7.20	1.41	1.35
31	5	312	CLA	C4B-NB	7.19	1.41	1.35
31	0	312	CLA	C4B-NB	7.19	1.41	1.35
31	6	210	CLA	C4B-NB	7.19	1.41	1.35
31	8	306	CLA	C4B-NB	7.19	1.41	1.35
31	3	314	CLA	C4B-NB	7.19	1.41	1.35
31	B	511	CLA	C4B-NB	7.18	1.41	1.35
31	2	307	CLA	C4B-NB	7.18	1.41	1.35
31	8	308	CLA	C4B-NB	7.18	1.41	1.35
31	B	516	CLA	C4B-NB	7.18	1.41	1.35
31	b	509	CLA	C4B-NB	7.18	1.41	1.35
31	0	306	CLA	C4B-NB	7.18	1.41	1.35
31	2	312	CLA	C4B-NB	7.18	1.41	1.35
31	P	603	CLA	C4B-NB	7.17	1.41	1.35
31	p	608	CLA	C4B-NB	7.17	1.41	1.35
31	8	314	CLA	C4B-NB	7.17	1.41	1.35
31	7	307	CLA	C4B-NB	7.17	1.41	1.35
31	P	606	CLA	C4B-NB	7.16	1.41	1.35
31	C	507	CLA	C4B-NB	7.16	1.41	1.35
31	5	305	CLA	C4B-NB	7.16	1.41	1.35
31	0	305	CLA	C4B-NB	7.16	1.41	1.35
31	5	310	CLA	C4B-NB	7.15	1.41	1.35
31	7	310	CLA	C4B-NB	7.15	1.41	1.35
31	b	508	CLA	C4B-NB	7.15	1.41	1.35
31	5	311	CLA	C4B-NB	7.15	1.41	1.35
31	p	609	CLA	C4B-NB	7.15	1.41	1.35
31	C	504	CLA	C4B-NB	7.14	1.41	1.35
31	6	215	CLA	C4B-NB	7.13	1.41	1.35
31	1	215	CLA	C4B-NB	7.13	1.41	1.35
31	b	514	CLA	C4B-NB	7.13	1.41	1.35
31	B	507	CLA	C4B-NB	7.13	1.41	1.35
31	c	504	CLA	C4B-NB	7.12	1.41	1.35
31	b	510	CLA	C4B-NB	7.12	1.41	1.35
31	C	506	CLA	C4B-NB	7.12	1.41	1.35
31	6	212	CLA	C4B-NB	7.11	1.41	1.35
31	9	210	CLA	C4B-NB	7.11	1.41	1.35
31	5	309	CLA	C4B-NB	7.11	1.41	1.35
31	B	509	CLA	C4B-NB	7.10	1.41	1.35
31	p	603	CLA	C4B-NB	7.10	1.41	1.35
31	P	609	CLA	C4B-NB	7.10	1.41	1.35
31	c	505	CLA	C4B-NB	7.09	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	c	511	CLA	C4B-NB	7.09	1.41	1.35
31	B	505	CLA	C4B-NB	7.08	1.41	1.35
31	c	506	CLA	C4B-NB	7.08	1.41	1.35
31	b	506	CLA	C4B-NB	7.07	1.41	1.35
31	a	407	CLA	C4B-NB	7.05	1.41	1.35
31	c	507	CLA	C4B-NB	7.05	1.41	1.35
31	P	608	CLA	C4B-NB	7.05	1.41	1.35
31	B	503	CLA	C4B-NB	7.04	1.41	1.35
31	4	210	CLA	C4B-NB	7.04	1.41	1.35
31	2	310	CLA	C4B-NB	7.04	1.41	1.35
31	B	504	CLA	C4B-NB	7.04	1.41	1.35
31	7	309	CLA	C4B-NB	7.03	1.41	1.35
31	2	309	CLA	C4B-NB	7.03	1.41	1.35
31	a	404	CLA	C4B-NB	7.03	1.41	1.35
31	C	511	CLA	C4B-NB	7.03	1.41	1.35
31	C	505	CLA	C4B-NB	7.03	1.41	1.35
31	p	606	CLA	C4B-NB	7.02	1.41	1.35
31	b	505	CLA	C4B-NB	7.02	1.41	1.35
31	A	404	CLA	C4B-NB	7.01	1.41	1.35
31	c	508	CLA	C4B-NB	7.01	1.41	1.35
31	B	513	CLA	C4B-NB	7.00	1.41	1.35
31	4	207	CLA	C4B-NB	6.99	1.41	1.35
31	B	506	CLA	C4B-NB	6.99	1.41	1.35
31	C	512	CLA	C4B-NB	6.99	1.41	1.35
31	C	503	CLA	C4B-NB	6.98	1.41	1.35
31	A	407	CLA	C4B-NB	6.98	1.41	1.35
31	b	504	CLA	C4B-NB	6.98	1.41	1.35
31	b	507	CLA	C4B-NB	6.98	1.41	1.35
31	C	514	CLA	C4B-NB	6.98	1.41	1.35
31	C	509	CLA	C4B-NB	6.97	1.41	1.35
31	d	404	CLA	C4B-NB	6.97	1.41	1.35
31	9	207	CLA	C4B-NB	6.95	1.41	1.35
31	C	508	CLA	C4B-NB	6.95	1.41	1.35
31	c	509	CLA	C4B-NB	6.95	1.41	1.35
31	1	206	CLA	C4B-NB	6.95	1.41	1.35
31	a	403	CLA	C4B-NB	6.95	1.41	1.35
31	P	602	CLA	C4B-NB	6.95	1.41	1.35
31	8	313	CLA	C4B-NB	6.95	1.41	1.35
31	4	205	CLA	C4B-NB	6.94	1.41	1.35
31	8	311	CLA	C4B-NB	6.94	1.41	1.35
31	3	313	CLA	C4B-NB	6.94	1.41	1.35
31	6	206	CLA	C4B-NB	6.94	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	b	515	CLA	C4B-NB	6.93	1.41	1.35
31	D	404	CLA	C4B-NB	6.93	1.41	1.35
31	9	205	CLA	C4B-NB	6.93	1.41	1.35
31	B	502	CLA	C4B-NB	6.92	1.41	1.35
31	p	602	CLA	C4B-NB	6.92	1.41	1.35
31	B	514	CLA	C4B-NB	6.92	1.41	1.35
31	b	503	CLA	C4B-NB	6.92	1.41	1.35
31	4	209	CLA	C4B-NB	6.91	1.41	1.35
31	3	312	CLA	C4B-NB	6.91	1.41	1.35
31	A	403	CLA	C4B-NB	6.90	1.41	1.35
31	3	311	CLA	C4B-NB	6.90	1.41	1.35
31	c	503	CLA	C4B-NB	6.90	1.41	1.35
31	c	514	CLA	C4B-NB	6.88	1.41	1.35
31	D	401	CLA	C4B-NB	6.88	1.41	1.35
31	C	502	CLA	C4B-NB	6.88	1.41	1.35
31	d	401	CLA	C4B-NB	6.87	1.41	1.35
31	4	208	CLA	C4B-NB	6.87	1.41	1.35
31	8	312	CLA	C4B-NB	6.86	1.41	1.35
31	9	209	CLA	C4B-NB	6.85	1.41	1.35
31	c	512	CLA	C4B-NB	6.85	1.41	1.35
31	c	510	CLA	C4B-NB	6.82	1.41	1.35
31	9	208	CLA	C4B-NB	6.82	1.41	1.35
31	B	512	CLA	C4B-NB	6.81	1.41	1.35
31	C	510	CLA	C4B-NB	6.81	1.41	1.35
31	c	502	CLA	C4B-NB	6.81	1.41	1.35
31	8	309	CLA	C4B-NB	6.81	1.41	1.35
31	3	309	CLA	C4B-NB	6.79	1.41	1.35
31	b	513	CLA	C4B-NB	6.79	1.41	1.35
31	P	604	CLA	C4B-NB	6.77	1.41	1.35
31	P	607	CLA	C4B-NB	6.77	1.41	1.35
31	8	307	CLA	C4B-NB	6.77	1.41	1.35
31	3	305	CLA	C4B-NB	6.76	1.41	1.35
31	3	307	CLA	C4B-NB	6.72	1.41	1.35
31	p	607	CLA	C4B-NB	6.72	1.41	1.35
31	p	604	CLA	C4B-NB	6.71	1.41	1.35
31	8	305	CLA	C4B-NB	6.70	1.41	1.35
31	p	605	CLA	C4B-NB	6.60	1.41	1.35
31	P	605	CLA	C4B-NB	6.48	1.41	1.35
42	4	202	A86	O4-C38	5.21	1.47	1.35
42	9	202	A86	O4-C38	5.18	1.46	1.35
42	6	202	A86	O4-C38	5.13	1.46	1.35
42	1	202	A86	O4-C38	5.13	1.46	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	0	301	A86	O4-C38	5.13	1.46	1.35
42	9	203	A86	O4-C38	5.11	1.46	1.35
42	4	203	A86	O4-C38	5.11	1.46	1.35
42	5	301	A86	O4-C38	5.10	1.46	1.35
42	2	302	A86	O4-C38	5.02	1.46	1.35
42	7	302	A86	O4-C38	5.01	1.46	1.35
35	D	406	PL9	C7-C3	-4.97	1.46	1.51
35	d	406	PL9	C7-C3	-4.94	1.46	1.51
42	2	301	A86	O4-C38	4.92	1.46	1.35
42	7	301	A86	O4-C38	4.91	1.46	1.35
42	5	317	A86	O4-C38	4.89	1.46	1.35
41	V	201	HEM	C3C-C2C	-4.88	1.33	1.40
42	0	317	A86	O4-C38	4.87	1.46	1.35
42	3	302	A86	O4-C38	4.82	1.46	1.35
42	8	302	A86	O4-C38	4.81	1.46	1.35
41	v	201	HEM	C3C-C2C	-4.81	1.33	1.40
31	8	306	CLA	CHB-C4A	4.74	1.38	1.34
42	8	301	A86	O4-C38	4.64	1.45	1.35
31	3	306	CLA	CHB-C4A	4.60	1.38	1.34
42	3	301	A86	O4-C38	4.59	1.45	1.35
42	0	303	A86	O4-C38	4.50	1.45	1.35
42	5	303	A86	O4-C38	4.50	1.45	1.35
42	9	201	A86	O4-C38	4.46	1.45	1.35
42	4	201	A86	O4-C38	4.46	1.45	1.35
43	5	302	ET4	C08-C07	4.39	1.46	1.33
42	P	610	A86	O4-C38	4.38	1.45	1.35
43	0	302	ET4	C08-C07	4.36	1.46	1.33
42	p	610	A86	O4-C38	4.33	1.45	1.35
31	p	606	CLA	C4D-ND	-4.24	1.31	1.37
31	P	606	CLA	C4D-ND	-4.23	1.31	1.37
37	c	521	LMG	O8-C28	4.19	1.45	1.33
39	c	520	DGD	O1G-C1A	4.19	1.45	1.33
39	C	520	DGD	O1G-C1A	4.19	1.45	1.33
42	2	302	A86	C30-C29	-4.19	1.25	1.32
42	8	302	A86	C30-C29	-4.19	1.25	1.32
37	C	521	LMG	O8-C28	4.18	1.45	1.33
42	7	302	A86	C30-C29	-4.17	1.25	1.32
42	3	302	A86	C30-C29	-4.16	1.25	1.32
31	4	213	CLA	C4D-ND	-4.07	1.32	1.37
39	C	520	DGD	O2G-C1B	4.07	1.45	1.34
39	c	520	DGD	O2G-C1B	4.07	1.45	1.34
31	9	213	CLA	C4D-ND	-4.06	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	f	101	HEM	C3C-C2C	-4.02	1.34	1.40
43	5	302	ET4	C19-C18	4.01	1.54	1.45
41	F	101	HEM	C3C-C2C	-4.00	1.34	1.40
43	0	302	ET4	C19-C18	3.98	1.54	1.45
37	c	521	LMG	O7-C10	3.96	1.45	1.34
37	C	521	LMG	O7-C10	3.95	1.45	1.34
31	4	212	CLA	C1D-ND	3.95	1.42	1.37
31	9	212	CLA	C1D-ND	3.92	1.42	1.37
31	8	308	CLA	C4D-ND	-3.88	1.33	1.37
31	1	205	CLA	C1D-ND	3.88	1.42	1.37
31	8	310	CLA	C3C-C4C	3.87	1.46	1.40
31	2	312	CLA	C3C-C4C	3.87	1.46	1.40
31	3	310	CLA	C3C-C4C	3.86	1.46	1.40
31	3	308	CLA	C4D-ND	-3.85	1.33	1.37
35	D	406	PL9	C3-C4	-3.85	1.43	1.49
31	7	308	CLA	C1D-ND	3.84	1.42	1.37
31	7	312	CLA	C3C-C4C	3.84	1.46	1.40
31	8	310	CLA	C1D-ND	3.83	1.42	1.37
35	d	406	PL9	C3-C4	-3.83	1.43	1.49
31	3	304	CLA	C3C-C4C	3.82	1.46	1.40
31	7	305	CLA	C1D-ND	3.82	1.42	1.37
42	7	302	A86	C32-C31	-3.82	1.48	1.54
31	8	306	CLA	C3C-C4C	3.82	1.46	1.40
31	2	308	CLA	C1D-ND	3.82	1.42	1.37
42	7	302	A86	O1-C20	-3.82	1.40	1.46
42	2	302	A86	O1-C20	-3.82	1.40	1.46
42	3	301	A86	C21-C20	3.82	1.57	1.51
31	7	316	CLA	C1D-ND	3.81	1.42	1.37
31	3	310	CLA	C1D-ND	3.81	1.42	1.37
42	4	203	A86	O1-C20	-3.81	1.40	1.46
31	P	601	CLA	C3C-C4C	3.81	1.46	1.40
31	2	315	CLA	C1D-ND	3.80	1.42	1.37
31	1	208	CLA	C1D-ND	3.80	1.42	1.37
31	7	313	CLA	C1D-ND	3.80	1.42	1.37
31	8	304	CLA	C3C-C4C	3.79	1.46	1.40
31	3	306	CLA	C3C-C4C	3.79	1.46	1.40
31	p	601	CLA	C3C-C4C	3.79	1.46	1.40
31	2	305	CLA	C1D-ND	3.79	1.42	1.37
31	1	209	CLA	C1D-ND	3.79	1.42	1.37
31	6	208	CLA	C1D-ND	3.79	1.42	1.37
31	0	307	CLA	C1D-ND	3.79	1.42	1.37
43	5	302	ET4	C08-C09	3.78	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	0	302	ET4	C08-C09	3.78	1.54	1.45
31	6	213	CLA	C1D-ND	3.78	1.42	1.37
31	2	316	CLA	C1D-ND	3.77	1.42	1.37
42	9	203	A86	O1-C20	-3.77	1.40	1.46
42	8	301	A86	C21-C20	3.77	1.57	1.51
31	6	205	CLA	C1D-ND	3.77	1.42	1.37
42	2	302	A86	C32-C31	-3.77	1.48	1.54
31	1	214	CLA	C1D-ND	3.77	1.42	1.37
42	5	303	A86	C30-C29	-3.76	1.25	1.32
42	0	303	A86	C30-C29	-3.76	1.25	1.32
31	c	504	CLA	C1D-ND	3.75	1.42	1.37
42	4	201	A86	O1-C20	-3.75	1.40	1.46
31	0	309	CLA	C1D-ND	3.75	1.42	1.37
31	7	315	CLA	C1D-ND	3.75	1.42	1.37
31	1	207	CLA	C1D-ND	3.74	1.42	1.37
31	6	209	CLA	C1D-ND	3.74	1.42	1.37
31	6	211	CLA	C1D-ND	3.74	1.42	1.37
31	1	211	CLA	C1D-ND	3.74	1.42	1.37
31	Z	101	CLA	C1D-ND	3.74	1.42	1.37
31	8	314	CLA	CAB-C3B	-3.74	1.43	1.51
31	0	304	CLA	C1D-ND	3.74	1.42	1.37
31	B	510	CLA	C1D-ND	3.73	1.42	1.37
31	B	515	CLA	C1D-ND	3.73	1.42	1.37
31	5	314	CLA	C1D-ND	3.73	1.42	1.37
31	0	314	CLA	C1D-ND	3.73	1.42	1.37
31	C	503	CLA	C1D-ND	3.73	1.42	1.37
31	C	504	CLA	C1D-ND	3.73	1.42	1.37
31	P	607	CLA	C4D-ND	-3.73	1.32	1.37
31	6	214	CLA	C1D-ND	3.73	1.42	1.37
31	2	313	CLA	C1D-ND	3.73	1.42	1.37
31	p	607	CLA	C4D-ND	-3.72	1.32	1.37
31	6	212	CLA	C1D-ND	3.72	1.42	1.37
31	1	212	CLA	C1D-ND	3.72	1.42	1.37
33	b	518	BCR	C1-C6	-3.72	1.48	1.53
31	7	310	CLA	C1D-ND	3.72	1.42	1.37
31	b	505	CLA	C1D-ND	3.72	1.42	1.37
31	0	308	CLA	C1D-ND	3.72	1.42	1.37
31	5	307	CLA	C1D-ND	3.72	1.42	1.37
31	b	516	CLA	C1D-ND	3.72	1.42	1.37
31	1	213	CLA	C1D-ND	3.72	1.42	1.37
31	5	312	CLA	C1D-ND	3.71	1.42	1.37
31	0	312	CLA	C1D-ND	3.71	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	504	CLA	C1D-ND	3.71	1.42	1.37
33	B	517	BCR	C1-C6	-3.71	1.48	1.53
31	z	101	CLA	C1D-ND	3.71	1.42	1.37
31	C	510	CLA	C1D-ND	3.71	1.42	1.37
31	b	511	CLA	C1D-ND	3.71	1.42	1.37
31	p	607	CLA	C1D-ND	3.71	1.42	1.37
31	c	503	CLA	C1D-ND	3.70	1.42	1.37
31	5	309	CLA	C1D-ND	3.70	1.42	1.37
31	C	513	CLA	C1D-ND	3.70	1.42	1.37
31	b	504	CLA	C1D-ND	3.70	1.42	1.37
31	1	215	CLA	C1D-ND	3.70	1.42	1.37
31	6	215	CLA	C1D-ND	3.70	1.42	1.37
42	9	201	A86	O1-C20	-3.70	1.40	1.46
31	P	607	CLA	C1D-ND	3.70	1.42	1.37
31	c	513	CLA	C1D-ND	3.69	1.42	1.37
31	D	401	CLA	C1D-ND	3.69	1.42	1.37
31	B	501	CLA	C1D-ND	3.69	1.42	1.37
31	c	510	CLA	C1D-ND	3.69	1.42	1.37
31	5	304	CLA	C1D-ND	3.69	1.42	1.37
42	9	202	A86	O1-C20	-3.69	1.40	1.46
31	d	401	CLA	C1D-ND	3.69	1.42	1.37
31	5	308	CLA	C1D-ND	3.69	1.42	1.37
41	F	101	HEM	C3C-CAC	3.69	1.55	1.47
31	2	311	CLA	C1D-ND	3.68	1.42	1.37
31	2	310	CLA	C1D-ND	3.68	1.42	1.37
31	C	508	CLA	C1D-ND	3.68	1.42	1.37
31	a	403	CLA	C1D-ND	3.68	1.42	1.37
31	5	310	CLA	C1D-ND	3.68	1.42	1.37
31	P	607	CLA	CAB-C3B	-3.68	1.44	1.51
31	C	505	CLA	C1D-ND	3.68	1.42	1.37
31	0	306	CLA	C1D-ND	3.68	1.42	1.37
31	4	211	CLA	CAB-C3B	-3.68	1.44	1.51
31	B	516	CLA	C1D-ND	3.68	1.42	1.37
41	f	101	HEM	C3C-CAC	3.68	1.55	1.47
31	C	512	CLA	C1D-ND	3.67	1.42	1.37
31	7	311	CLA	C1D-ND	3.67	1.42	1.37
31	2	314	CLA	C1D-ND	3.67	1.42	1.37
31	c	508	CLA	C1D-ND	3.67	1.42	1.37
31	6	216	CLA	C1D-ND	3.67	1.42	1.37
31	6	207	CLA	C1D-ND	3.67	1.42	1.37
31	7	312	CLA	C1D-ND	3.67	1.42	1.37
31	2	312	CLA	C1D-ND	3.67	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	3	314	CLA	CAB-C3B	-3.67	1.44	1.51
31	A	407	CLA	C1D-ND	3.67	1.42	1.37
31	b	502	CLA	C1D-ND	3.67	1.42	1.37
31	c	505	CLA	C1D-ND	3.67	1.42	1.37
31	7	314	CLA	C1D-ND	3.66	1.42	1.37
31	5	306	CLA	C1D-ND	3.66	1.42	1.37
31	c	511	CLA	C1D-ND	3.66	1.42	1.37
31	8	306	CLA	CAB-C3B	-3.66	1.44	1.51
31	B	503	CLA	C1D-ND	3.66	1.42	1.37
42	8	301	A86	C30-C29	-3.65	1.25	1.32
42	7	301	A86	C30-C29	-3.65	1.25	1.32
31	2	307	CLA	C1D-ND	3.65	1.42	1.37
31	5	313	CLA	C1D-ND	3.65	1.42	1.37
31	9	211	CLA	CAB-C3B	-3.65	1.44	1.51
31	0	313	CLA	C1D-ND	3.65	1.42	1.37
31	3	306	CLA	CAB-C3B	-3.65	1.44	1.51
42	4	202	A86	O1-C20	-3.64	1.41	1.46
31	7	307	CLA	C1D-ND	3.64	1.42	1.37
31	3	309	CLA	C4D-ND	-3.64	1.32	1.37
31	C	514	CLA	C1D-ND	3.64	1.42	1.37
31	0	310	CLA	C1D-ND	3.64	1.42	1.37
31	B	505	CLA	C1D-ND	3.64	1.42	1.37
31	B	507	CLA	C1D-ND	3.64	1.42	1.37
31	B	513	CLA	C1D-ND	3.64	1.42	1.37
31	p	607	CLA	CAB-C3B	-3.64	1.44	1.51
31	8	309	CLA	C4D-ND	-3.64	1.32	1.37
31	c	512	CLA	C1D-ND	3.64	1.42	1.37
31	b	506	CLA	C1D-ND	3.64	1.42	1.37
31	C	507	CLA	C1D-ND	3.64	1.42	1.37
31	3	304	CLA	CAB-C3B	-3.64	1.44	1.51
31	a	407	CLA	C1D-ND	3.64	1.42	1.37
31	1	216	CLA	C1D-ND	3.64	1.42	1.37
31	0	305	CLA	C1D-ND	3.64	1.42	1.37
31	6	201	CLA	C1D-ND	3.63	1.42	1.37
31	1	201	CLA	C1D-ND	3.63	1.42	1.37
31	b	512	CLA	C1D-ND	3.63	1.42	1.37
31	C	511	CLA	C1D-ND	3.63	1.42	1.37
31	b	510	CLA	C1D-ND	3.63	1.42	1.37
31	a	404	CLA	C1D-ND	3.63	1.42	1.37
31	B	511	CLA	C1D-ND	3.63	1.42	1.37
31	B	509	CLA	C1D-ND	3.63	1.42	1.37
31	A	403	CLA	C1D-ND	3.62	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	9	205	CLA	CAB-C3B	-3.62	1.44	1.51
42	2	301	A86	C30-C29	-3.62	1.25	1.32
31	8	304	CLA	CAB-C3B	-3.62	1.44	1.51
31	A	404	CLA	C1D-ND	3.62	1.42	1.37
42	3	301	A86	C30-C29	-3.62	1.25	1.32
31	4	205	CLA	CAB-C3B	-3.62	1.44	1.51
42	6	202	A86	C30-C29	-3.62	1.25	1.32
42	1	202	A86	C30-C29	-3.62	1.25	1.32
31	b	517	CLA	C1D-ND	3.62	1.42	1.37
31	d	403	CLA	CAB-C3B	-3.61	1.44	1.51
31	6	206	CLA	C1D-ND	3.61	1.42	1.37
33	a	408	BCR	C1-C6	-3.61	1.48	1.53
31	c	502	CLA	C1D-ND	3.61	1.42	1.37
31	1	210	CLA	C1D-ND	3.60	1.42	1.37
42	p	610	A86	O1-C20	-3.60	1.41	1.46
31	c	514	CLA	C1D-ND	3.60	1.42	1.37
42	P	610	A86	O1-C20	-3.60	1.41	1.46
31	C	502	CLA	C1D-ND	3.60	1.42	1.37
31	b	514	CLA	C1D-ND	3.60	1.42	1.37
31	c	507	CLA	C1D-ND	3.60	1.42	1.37
31	D	403	CLA	C1D-ND	3.59	1.42	1.37
31	D	403	CLA	CAB-C3B	-3.59	1.44	1.51
31	3	307	CLA	C1D-ND	3.58	1.42	1.37
31	P	609	CLA	C1D-ND	3.58	1.42	1.37
31	9	213	CLA	CAB-C3B	-3.58	1.44	1.51
31	1	201	CLA	CAB-C3B	-3.58	1.44	1.51
31	7	309	CLA	C1D-ND	3.58	1.42	1.37
31	5	305	CLA	C1D-ND	3.58	1.42	1.37
31	P	605	CLA	C4D-ND	-3.57	1.32	1.37
33	A	408	BCR	C1-C6	-3.57	1.48	1.53
31	p	608	CLA	CAB-C3B	-3.57	1.44	1.51
31	D	404	CLA	C1D-ND	3.57	1.42	1.37
31	P	604	CLA	C1D-ND	3.57	1.42	1.37
31	b	503	CLA	C1D-ND	3.56	1.42	1.37
31	6	201	CLA	CAB-C3B	-3.56	1.44	1.51
31	B	506	CLA	C1D-ND	3.56	1.42	1.37
31	d	403	CLA	C1D-ND	3.56	1.42	1.37
31	1	209	CLA	CAB-C3B	-3.56	1.44	1.51
42	7	301	A86	O1-C20	-3.55	1.41	1.46
42	2	301	A86	O1-C20	-3.55	1.41	1.46
31	9	212	CLA	CAB-C3B	-3.55	1.44	1.51
31	d	404	CLA	C1D-ND	3.55	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C	509	CLA	C1D-ND	3.55	1.42	1.37
31	9	204	CLA	C1D-ND	3.55	1.42	1.37
31	6	209	CLA	CAB-C3B	-3.55	1.44	1.51
31	p	605	CLA	C4D-ND	-3.55	1.32	1.37
42	3	301	A86	O1-C20	-3.55	1.41	1.46
41	V	201	HEM	C3C-CAC	3.55	1.55	1.47
31	8	307	CLA	C1D-ND	3.55	1.42	1.37
31	9	209	CLA	C4D-ND	-3.54	1.32	1.37
31	0	311	CLA	C1D-ND	3.54	1.42	1.37
31	c	509	CLA	C1D-ND	3.54	1.42	1.37
31	b	507	CLA	C1D-ND	3.54	1.42	1.37
31	p	604	CLA	C1D-ND	3.54	1.42	1.37
31	b	508	CLA	C1D-ND	3.54	1.42	1.37
31	P	608	CLA	CAB-C3B	-3.54	1.44	1.51
31	9	211	CLA	C1D-ND	3.54	1.42	1.37
31	8	308	CLA	C1D-ND	3.54	1.42	1.37
41	v	201	HEM	C3C-CAC	3.54	1.55	1.47
31	p	603	CLA	C1D-ND	3.54	1.42	1.37
31	4	209	CLA	C4D-ND	-3.54	1.32	1.37
31	4	213	CLA	CAB-C3B	-3.54	1.44	1.51
42	8	301	A86	O1-C20	-3.54	1.41	1.46
31	2	309	CLA	C1D-ND	3.54	1.42	1.37
31	1	206	CLA	C1D-ND	3.53	1.42	1.37
31	6	207	CLA	CAB-C3B	-3.53	1.44	1.51
31	1	207	CLA	CAB-C3B	-3.53	1.44	1.51
33	C	516	BCR	C1-C6	-3.53	1.48	1.53
31	B	512	CLA	C1D-ND	3.53	1.42	1.37
33	c	516	BCR	C1-C6	-3.53	1.48	1.53
31	B	502	CLA	C1D-ND	3.53	1.42	1.37
31	b	513	CLA	C1D-ND	3.52	1.42	1.37
31	P	603	CLA	C1D-ND	3.52	1.42	1.37
31	b	509	CLA	C1D-ND	3.52	1.42	1.37
31	3	308	CLA	C1D-ND	3.52	1.42	1.37
31	4	212	CLA	CAB-C3B	-3.52	1.44	1.51
31	7	308	CLA	CAB-C3B	-3.52	1.44	1.51
31	p	609	CLA	C1D-ND	3.52	1.42	1.37
43	5	302	ET4	C12-C13	3.51	1.53	1.45
43	0	302	ET4	C12-C13	3.51	1.53	1.45
31	B	508	CLA	C1D-ND	3.51	1.42	1.37
31	4	210	CLA	C1D-ND	3.51	1.42	1.37
31	6	210	CLA	C1D-ND	3.51	1.42	1.37
33	b	520	BCR	C1-C6	-3.51	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	4	206	CLA	C4D-ND	-3.50	1.32	1.37
31	2	308	CLA	CAB-C3B	-3.50	1.44	1.51
31	2	306	CLA	C1D-ND	3.50	1.42	1.37
31	4	204	CLA	C1D-ND	3.50	1.42	1.37
31	4	211	CLA	C1D-ND	3.50	1.42	1.37
31	C	506	CLA	C1D-ND	3.50	1.42	1.37
31	b	515	CLA	C1D-ND	3.50	1.42	1.37
31	3	311	CLA	C1D-ND	3.49	1.42	1.37
31	4	208	CLA	C1D-ND	3.49	1.42	1.37
31	9	208	CLA	C4D-ND	-3.49	1.32	1.37
33	B	519	BCR	C1-C6	-3.48	1.49	1.53
31	4	208	CLA	C4D-ND	-3.48	1.32	1.37
42	5	317	A86	O1-C20	-3.48	1.41	1.46
33	B	517	BCR	C30-C25	-3.48	1.49	1.53
33	b	518	BCR	C30-C25	-3.48	1.49	1.53
42	0	301	A86	C30-C29	-3.48	1.26	1.32
31	B	514	CLA	C1D-ND	3.48	1.42	1.37
31	9	208	CLA	C1D-ND	3.48	1.42	1.37
31	9	210	CLA	C4D-ND	-3.48	1.32	1.37
31	9	207	CLA	C1D-ND	3.48	1.42	1.37
42	5	317	A86	C30-C29	-3.47	1.26	1.32
31	8	304	CLA	C1D-ND	3.47	1.42	1.37
31	c	506	CLA	C1D-ND	3.47	1.42	1.37
31	4	207	CLA	C1D-ND	3.47	1.42	1.37
31	7	306	CLA	C1D-ND	3.47	1.42	1.37
31	9	210	CLA	C1D-ND	3.47	1.42	1.37
42	0	317	A86	O1-C20	-3.46	1.41	1.46
31	4	210	CLA	C4D-ND	-3.46	1.32	1.37
31	3	314	CLA	C1D-ND	3.46	1.42	1.37
31	3	304	CLA	C1D-ND	3.45	1.42	1.37
31	9	206	CLA	C4D-ND	-3.45	1.33	1.37
31	9	205	CLA	C4D-ND	-3.44	1.33	1.37
33	c	517	BCR	C1-C6	-3.44	1.49	1.53
31	5	311	CLA	C1D-ND	3.44	1.42	1.37
31	3	306	CLA	C1D-ND	3.44	1.42	1.37
42	0	317	A86	C30-C29	-3.44	1.26	1.32
42	5	301	A86	C30-C29	-3.44	1.26	1.32
31	8	314	CLA	C1D-ND	3.43	1.42	1.37
33	C	517	BCR	C1-C6	-3.43	1.49	1.53
42	4	202	A86	C30-C29	-3.43	1.26	1.32
31	3	307	CLA	C4D-ND	-3.43	1.33	1.37
31	4	205	CLA	C4D-ND	-3.42	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	B	518	BCR	C1-C6	-3.41	1.49	1.53
33	b	519	BCR	C1-C6	-3.41	1.49	1.53
31	9	205	CLA	C1D-ND	3.41	1.42	1.37
31	8	311	CLA	C1D-ND	3.41	1.42	1.37
42	4	203	A86	C30-C29	-3.41	1.26	1.32
31	8	307	CLA	C4D-ND	-3.40	1.33	1.37
31	8	306	CLA	C1D-ND	3.40	1.42	1.37
31	P	602	CLA	C1D-ND	3.40	1.42	1.37
31	9	204	CLA	C4D-ND	-3.40	1.33	1.37
42	9	203	A86	C30-C29	-3.40	1.26	1.32
31	p	602	CLA	C1D-ND	3.39	1.42	1.37
31	4	204	CLA	C4D-ND	-3.39	1.33	1.37
33	K	101	BCR	C1-C6	-3.38	1.49	1.53
33	k	101	BCR	C1-C6	-3.38	1.49	1.53
42	9	202	A86	C30-C29	-3.37	1.26	1.32
31	4	205	CLA	C1D-ND	3.37	1.41	1.37
42	8	302	A86	O1-C20	-3.37	1.41	1.46
31	p	606	CLA	C1D-ND	3.35	1.41	1.37
42	3	302	A86	O1-C20	-3.35	1.41	1.46
31	3	305	CLA	C1D-ND	3.35	1.41	1.37
31	P	608	CLA	C4D-ND	-3.35	1.33	1.37
31	P	606	CLA	C1D-ND	3.34	1.41	1.37
31	P	602	CLA	C4D-ND	-3.34	1.33	1.37
42	9	201	A86	C30-C29	-3.34	1.26	1.32
31	8	313	CLA	C1D-ND	3.33	1.41	1.37
33	D	405	BCR	C30-C25	-3.32	1.49	1.53
31	4	213	CLA	C1D-ND	3.32	1.41	1.37
31	9	207	CLA	C4D-ND	-3.32	1.33	1.37
42	4	201	A86	C30-C29	-3.31	1.26	1.32
33	c	515	BCR	C30-C25	-3.31	1.49	1.53
31	4	206	CLA	C1D-ND	3.31	1.41	1.37
31	9	213	CLA	C1D-ND	3.30	1.41	1.37
31	8	305	CLA	C1D-ND	3.30	1.41	1.37
31	3	313	CLA	C4D-ND	-3.30	1.33	1.37
31	4	209	CLA	C1D-ND	3.30	1.41	1.37
31	4	207	CLA	C4D-ND	-3.30	1.33	1.37
31	3	312	CLA	C1D-ND	3.29	1.41	1.37
31	d	401	CLA	C4D-ND	-3.29	1.33	1.37
31	p	608	CLA	C4D-ND	-3.29	1.33	1.37
31	3	313	CLA	C1D-ND	3.29	1.41	1.37
33	C	515	BCR	C30-C25	-3.29	1.49	1.53
31	C	511	CLA	C4D-ND	-3.29	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	8	312	CLA	C1D-ND	3.29	1.41	1.37
31	B	509	CLA	C4D-ND	-3.28	1.33	1.37
31	c	511	CLA	C4D-ND	-3.28	1.33	1.37
31	8	312	CLA	C4D-ND	-3.28	1.33	1.37
31	D	401	CLA	C4D-ND	-3.27	1.33	1.37
33	K	101	BCR	C30-C25	-3.27	1.49	1.53
31	p	602	CLA	C4D-ND	-3.27	1.33	1.37
31	0	305	CLA	C4D-ND	-3.27	1.33	1.37
33	d	405	BCR	C30-C25	-3.26	1.49	1.53
31	b	510	CLA	C4D-ND	-3.26	1.33	1.37
31	4	205	CLA	CHC-C1C	3.26	1.43	1.35
42	0	301	A86	O1-C20	-3.26	1.41	1.46
31	8	313	CLA	C4D-ND	-3.25	1.33	1.37
31	b	507	CLA	C4D-ND	-3.25	1.33	1.37
31	9	205	CLA	CHC-C1C	3.25	1.43	1.35
31	A	404	CLA	C4D-ND	-3.25	1.33	1.37
42	5	301	A86	O1-C20	-3.25	1.41	1.46
31	2	306	CLA	CHC-C1C	3.25	1.43	1.35
31	8	306	CLA	C4D-ND	-3.25	1.33	1.37
31	6	206	CLA	CHC-C1C	3.25	1.43	1.35
31	a	404	CLA	C4D-ND	-3.24	1.33	1.37
31	8	311	CLA	C4D-ND	-3.24	1.33	1.37
33	k	101	BCR	C30-C25	-3.24	1.49	1.53
31	5	305	CLA	C4D-ND	-3.24	1.33	1.37
31	2	310	CLA	CHC-C1C	3.24	1.43	1.35
31	7	306	CLA	CHC-C1C	3.24	1.43	1.35
31	3	306	CLA	C4D-ND	-3.24	1.33	1.37
31	c	509	CLA	C4D-ND	-3.23	1.33	1.37
31	9	209	CLA	C1D-ND	3.23	1.41	1.37
31	B	506	CLA	C4D-ND	-3.23	1.33	1.37
31	z	101	CLA	CHC-C1C	3.23	1.43	1.35
31	1	206	CLA	CHC-C1C	3.22	1.43	1.35
31	3	305	CLA	C4D-ND	-3.22	1.33	1.37
31	b	513	CLA	C4D-ND	-3.22	1.33	1.37
31	p	601	CLA	C4D-ND	-3.21	1.33	1.37
31	8	305	CLA	C4D-ND	-3.21	1.33	1.37
31	b	515	CLA	C4D-ND	-3.21	1.33	1.37
31	p	608	CLA	C1D-ND	3.21	1.41	1.37
31	P	608	CLA	C1D-ND	3.21	1.41	1.37
31	c	510	CLA	C4D-ND	-3.21	1.33	1.37
31	1	216	CLA	CHC-C1C	3.21	1.43	1.35
31	8	310	CLA	CHC-C1C	3.20	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	512	CLA	C4D-ND	-3.20	1.33	1.37
31	6	211	CLA	CHC-C1C	3.20	1.43	1.35
31	7	307	CLA	C4D-ND	-3.20	1.33	1.37
31	2	307	CLA	C4D-ND	-3.20	1.33	1.37
31	Z	101	CLA	CHC-C1C	3.20	1.43	1.35
31	p	604	CLA	C4D-ND	-3.19	1.33	1.37
31	p	603	CLA	C4D-ND	-3.19	1.33	1.37
31	9	206	CLA	C1D-ND	3.19	1.41	1.37
33	C	515	BCR	C1-C6	-3.19	1.49	1.53
31	0	309	CLA	CHC-C1C	3.19	1.43	1.35
31	7	310	CLA	CHC-C1C	3.19	1.43	1.35
31	a	403	CLA	C4D-ND	-3.19	1.33	1.37
31	3	311	CLA	C4D-ND	-3.19	1.33	1.37
31	3	312	CLA	C4D-ND	-3.18	1.33	1.37
31	2	309	CLA	C4D-ND	-3.18	1.33	1.37
31	3	310	CLA	CHC-C1C	3.18	1.43	1.35
31	P	604	CLA	C4D-ND	-3.18	1.33	1.37
31	C	509	CLA	C4D-ND	-3.18	1.33	1.37
31	B	514	CLA	C4D-ND	-3.18	1.33	1.37
31	1	207	CLA	C4D-ND	-3.18	1.33	1.37
31	2	313	CLA	CHC-C1C	3.18	1.43	1.35
42	6	202	A86	O1-C20	-3.18	1.41	1.46
31	1	211	CLA	CHC-C1C	3.18	1.43	1.35
31	C	510	CLA	C4D-ND	-3.18	1.33	1.37
31	5	309	CLA	CHC-C1C	3.17	1.43	1.35
31	P	601	CLA	C4D-ND	-3.17	1.33	1.37
31	D	403	CLA	CHC-C1C	3.17	1.43	1.35
31	2	312	CLA	CHC-C1C	3.17	1.43	1.35
31	D	403	CLA	C4D-ND	-3.17	1.33	1.37
31	W	202	CLA	C4D-ND	-3.17	1.33	1.37
31	b	506	CLA	C4D-ND	-3.17	1.33	1.37
31	w	202	CLA	C4D-ND	-3.17	1.33	1.37
31	7	316	CLA	CHC-C1C	3.17	1.43	1.35
33	c	515	BCR	C1-C6	-3.17	1.49	1.53
31	d	403	CLA	C4D-ND	-3.17	1.33	1.37
31	A	403	CLA	C4D-ND	-3.17	1.33	1.37
31	8	314	CLA	C4D-ND	-3.16	1.33	1.37
31	P	608	CLA	CHC-C1C	3.16	1.43	1.35
31	7	307	CLA	CHC-C1C	3.16	1.43	1.35
31	2	307	CLA	CHC-C1C	3.16	1.43	1.35
34	B	523	SQD	O48-C23	3.16	1.42	1.33
31	b	503	CLA	C4D-ND	-3.16	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	5	314	CLA	CHC-C1C	3.16	1.43	1.35
31	0	314	CLA	CHC-C1C	3.16	1.43	1.35
31	B	505	CLA	C4D-ND	-3.16	1.33	1.37
31	1	207	CLA	CHC-C1C	3.16	1.43	1.35
31	p	605	CLA	C1D-ND	3.16	1.41	1.37
31	d	404	CLA	C4D-ND	-3.16	1.33	1.37
31	6	208	CLA	C4D-ND	-3.16	1.33	1.37
34	b	501	SQD	O48-C23	3.16	1.42	1.33
31	1	208	CLA	CHC-C1C	3.15	1.43	1.35
31	6	206	CLA	C4D-ND	-3.15	1.33	1.37
31	8	304	CLA	C4D-ND	-3.15	1.33	1.37
31	6	207	CLA	C4D-ND	-3.15	1.33	1.37
31	6	216	CLA	CHC-C1C	3.15	1.43	1.35
31	7	312	CLA	CHC-C1C	3.15	1.43	1.35
31	P	605	CLA	C1D-ND	3.15	1.41	1.37
31	6	207	CLA	CHC-C1C	3.15	1.43	1.35
31	c	513	CLA	C4D-ND	-3.15	1.33	1.37
31	a	403	CLA	CHC-C1C	3.15	1.43	1.35
33	d	405	BCR	C1-C6	-3.15	1.49	1.53
31	c	514	CLA	CHC-C1C	3.15	1.43	1.35
31	d	403	CLA	CHC-C1C	3.15	1.43	1.35
31	6	201	CLA	C4D-ND	-3.15	1.33	1.37
31	1	201	CLA	C4D-ND	-3.15	1.33	1.37
31	C	508	CLA	C4D-ND	-3.14	1.33	1.37
31	2	310	CLA	C4D-ND	-3.14	1.33	1.37
31	7	315	CLA	CHC-C1C	3.14	1.43	1.35
31	p	608	CLA	CHC-C1C	3.14	1.43	1.35
31	2	315	CLA	CHC-C1C	3.14	1.43	1.35
31	c	507	CLA	C4D-ND	-3.14	1.33	1.37
31	C	514	CLA	CHC-C1C	3.14	1.43	1.35
31	C	513	CLA	C4D-ND	-3.14	1.33	1.37
31	B	510	CLA	C4D-ND	-3.14	1.33	1.37
31	A	407	CLA	C4D-ND	-3.14	1.33	1.37
31	C	504	CLA	C4D-ND	-3.14	1.33	1.37
31	5	307	CLA	CHC-C1C	3.14	1.43	1.35
31	C	503	CLA	C4D-ND	-3.13	1.33	1.37
31	c	503	CLA	C4D-ND	-3.13	1.33	1.37
31	6	212	CLA	CHC-C1C	3.13	1.43	1.35
31	z	101	CLA	C4D-ND	-3.13	1.33	1.37
31	2	311	CLA	CHC-C1C	3.13	1.43	1.35
31	1	209	CLA	CHC-C1C	3.13	1.43	1.35
31	2	316	CLA	CHC-C1C	3.13	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	511	CLA	C4D-ND	-3.13	1.33	1.37
31	7	313	CLA	CHC-C1C	3.13	1.43	1.35
33	D	405	BCR	C1-C6	-3.13	1.49	1.53
31	7	309	CLA	C4D-ND	-3.13	1.33	1.37
31	B	516	CLA	C4D-ND	-3.13	1.33	1.37
31	5	313	CLA	CHC-C1C	3.13	1.43	1.35
31	B	502	CLA	C4D-ND	-3.12	1.33	1.37
31	3	304	CLA	C4D-ND	-3.12	1.33	1.37
31	0	312	CLA	CHC-C1C	3.12	1.43	1.35
31	7	309	CLA	CHC-C1C	3.12	1.43	1.35
31	C	511	CLA	CHC-C1C	3.12	1.43	1.35
31	c	511	CLA	CHC-C1C	3.12	1.43	1.35
31	b	517	CLA	C4D-ND	-3.12	1.33	1.37
31	A	403	CLA	CHC-C1C	3.12	1.43	1.35
31	6	205	CLA	CHC-C1C	3.12	1.43	1.35
31	6	201	CLA	CHC-C1C	3.12	1.43	1.35
31	D	404	CLA	C4D-ND	-3.12	1.33	1.37
31	Z	101	CLA	C4D-ND	-3.12	1.33	1.37
31	c	512	CLA	C4D-ND	-3.12	1.33	1.37
31	1	212	CLA	CHC-C1C	3.12	1.43	1.35
31	C	512	CLA	C4D-ND	-3.11	1.33	1.37
31	6	209	CLA	CHC-C1C	3.11	1.42	1.35
31	0	313	CLA	CHC-C1C	3.11	1.42	1.35
31	0	307	CLA	CHC-C1C	3.11	1.42	1.35
31	b	511	CLA	C4D-ND	-3.11	1.33	1.37
31	5	312	CLA	CHC-C1C	3.11	1.42	1.35
31	7	311	CLA	CHC-C1C	3.11	1.42	1.35
31	C	506	CLA	C4D-ND	-3.11	1.33	1.37
31	6	208	CLA	CHC-C1C	3.11	1.42	1.35
31	1	201	CLA	CHC-C1C	3.11	1.42	1.35
31	5	306	CLA	CHC-C1C	3.11	1.42	1.35
31	0	306	CLA	CHC-C1C	3.11	1.42	1.35
31	b	512	CLA	C4D-ND	-3.11	1.33	1.37
31	5	310	CLA	CHC-C1C	3.10	1.42	1.35
33	h	101	BCR	C30-C25	-3.10	1.49	1.53
31	C	509	CLA	CHC-C1C	3.10	1.42	1.35
31	c	504	CLA	C4D-ND	-3.10	1.33	1.37
31	c	508	CLA	C4D-ND	-3.10	1.33	1.37
31	B	513	CLA	C4D-ND	-3.10	1.33	1.37
31	C	505	CLA	C4D-ND	-3.10	1.33	1.37
31	b	509	CLA	C4D-ND	-3.10	1.33	1.37
31	p	603	CLA	CHC-C1C	3.10	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	4	211	CLA	C4D-ND	-3.10	1.33	1.37
31	9	212	CLA	CHC-C1C	3.10	1.42	1.35
33	H	101	BCR	C30-C25	-3.10	1.49	1.53
34	5	316	SQD	O48-C23	3.10	1.42	1.33
34	0	316	SQD	O48-C23	3.10	1.42	1.33
31	B	511	CLA	CHC-C1C	3.10	1.42	1.35
31	5	308	CLA	CHC-C1C	3.10	1.42	1.35
31	b	514	CLA	C4D-ND	-3.09	1.33	1.37
33	H	101	BCR	C1-C6	-3.09	1.49	1.53
31	c	509	CLA	CHC-C1C	3.09	1.42	1.35
31	0	308	CLA	CHC-C1C	3.09	1.42	1.35
31	3	314	CLA	C4D-ND	-3.09	1.33	1.37
31	A	407	CLA	CHC-C1C	3.09	1.42	1.35
31	b	516	CLA	C4D-ND	-3.09	1.33	1.37
33	h	101	BCR	C1-C6	-3.09	1.49	1.53
31	B	502	CLA	CHC-C1C	3.09	1.42	1.35
31	B	505	CLA	CHC-C1C	3.09	1.42	1.35
31	b	512	CLA	CHC-C1C	3.09	1.42	1.35
31	1	205	CLA	CHC-C1C	3.09	1.42	1.35
31	C	507	CLA	C4D-ND	-3.09	1.33	1.37
31	P	603	CLA	CHC-C1C	3.09	1.42	1.35
31	2	309	CLA	CHC-C1C	3.09	1.42	1.35
31	p	602	CLA	CHC-C1C	3.09	1.42	1.35
31	2	305	CLA	CHC-C1C	3.09	1.42	1.35
31	w	202	CLA	CHC-C1C	3.09	1.42	1.35
31	P	603	CLA	C4D-ND	-3.09	1.33	1.37
31	P	602	CLA	CHC-C1C	3.09	1.42	1.35
31	1	211	CLA	C4D-ND	-3.09	1.33	1.37
31	6	215	CLA	CHC-C1C	3.08	1.42	1.35
31	W	202	CLA	CHC-C1C	3.08	1.42	1.35
31	4	212	CLA	CHC-C1C	3.08	1.42	1.35
31	a	407	CLA	C4D-ND	-3.08	1.33	1.37
31	b	509	CLA	CHC-C1C	3.08	1.42	1.35
31	1	206	CLA	C4D-ND	-3.08	1.33	1.37
31	B	513	CLA	CHC-C1C	3.08	1.42	1.35
31	0	310	CLA	CHC-C1C	3.08	1.42	1.35
31	6	211	CLA	C4D-ND	-3.08	1.33	1.37
31	b	503	CLA	CHC-C1C	3.08	1.42	1.35
31	5	304	CLA	CHC-C1C	3.08	1.42	1.35
31	0	304	CLA	CHC-C1C	3.08	1.42	1.35
31	B	508	CLA	C4D-ND	-3.08	1.33	1.37
31	B	508	CLA	CHC-C1C	3.08	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	c	502	CLA	C4D-ND	-3.08	1.33	1.37
34	A	411	SQD	O48-C23	3.08	1.42	1.33
31	8	314	CLA	CHC-C1C	3.07	1.42	1.35
31	4	206	CLA	CHC-C1C	3.07	1.42	1.35
31	a	407	CLA	CHC-C1C	3.07	1.42	1.35
31	5	311	CLA	CHC-C1C	3.07	1.42	1.35
31	0	311	CLA	CHC-C1C	3.07	1.42	1.35
31	b	517	CLA	CHC-C1C	3.07	1.42	1.35
31	B	515	CLA	C4D-ND	-3.07	1.33	1.37
31	b	506	CLA	CHC-C1C	3.07	1.42	1.35
31	6	210	CLA	CHC-C1C	3.07	1.42	1.35
31	1	210	CLA	CHC-C1C	3.07	1.42	1.35
31	P	604	CLA	CHC-C1C	3.07	1.42	1.35
31	0	306	CLA	C4D-ND	-3.07	1.33	1.37
31	7	305	CLA	CHC-C1C	3.07	1.42	1.35
31	1	215	CLA	CHC-C1C	3.07	1.42	1.35
31	1	208	CLA	C4D-ND	-3.07	1.33	1.37
31	b	514	CLA	CHC-C1C	3.07	1.42	1.35
31	2	315	CLA	C4D-ND	-3.07	1.33	1.37
31	b	504	CLA	C4D-ND	-3.07	1.33	1.37
31	7	306	CLA	C4D-ND	-3.07	1.33	1.37
31	C	506	CLA	CHC-C1C	3.07	1.42	1.35
31	6	214	CLA	CHC-C1C	3.07	1.42	1.35
31	c	506	CLA	C4D-ND	-3.06	1.33	1.37
31	1	213	CLA	CHC-C1C	3.06	1.42	1.35
31	3	306	CLA	CHC-C1C	3.06	1.42	1.35
31	b	511	CLA	CHC-C1C	3.06	1.42	1.35
31	1	205	CLA	C4D-ND	-3.06	1.33	1.37
31	B	507	CLA	C4D-ND	-3.06	1.33	1.37
31	b	508	CLA	CHC-C1C	3.06	1.42	1.35
31	8	308	CLA	CHC-C1C	3.06	1.42	1.35
31	9	210	CLA	CHC-C1C	3.06	1.42	1.35
31	0	305	CLA	CHC-C1C	3.06	1.42	1.35
31	c	505	CLA	C4D-ND	-3.06	1.33	1.37
31	B	507	CLA	CHC-C1C	3.06	1.42	1.35
31	B	516	CLA	CHC-C1C	3.06	1.42	1.35
31	8	306	CLA	CHC-C1C	3.05	1.42	1.35
31	8	310	CLA	C4D-ND	-3.05	1.33	1.37
33	b	519	BCR	C30-C25	-3.05	1.49	1.53
33	A	408	BCR	C30-C25	-3.05	1.49	1.53
31	B	514	CLA	CHC-C1C	3.05	1.42	1.35
31	B	503	CLA	C4D-ND	-3.05	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	7	314	CLA	CHC-C1C	3.05	1.42	1.35
31	3	314	CLA	CHC-C1C	3.05	1.42	1.35
31	2	306	CLA	C4D-ND	-3.05	1.33	1.37
42	1	202	A86	O1-C20	-3.05	1.41	1.46
31	b	515	CLA	CHC-C1C	3.05	1.42	1.35
31	3	308	CLA	CHC-C1C	3.05	1.42	1.35
31	7	310	CLA	C4D-ND	-3.05	1.33	1.37
31	c	506	CLA	CHC-C1C	3.05	1.42	1.35
31	6	213	CLA	CHC-C1C	3.04	1.42	1.35
34	B	522	SQD	O48-C23	3.04	1.42	1.33
31	8	304	CLA	CHC-C1C	3.04	1.42	1.35
31	B	503	CLA	CHC-C1C	3.04	1.42	1.35
31	b	508	CLA	C4D-ND	-3.04	1.33	1.37
31	6	214	CLA	C4D-ND	-3.04	1.33	1.37
31	9	206	CLA	CHC-C1C	3.04	1.42	1.35
31	c	510	CLA	CHC-C1C	3.04	1.42	1.35
31	7	314	CLA	C4D-ND	-3.04	1.33	1.37
31	6	205	CLA	C4D-ND	-3.04	1.33	1.37
31	2	314	CLA	C4D-ND	-3.04	1.33	1.37
31	c	513	CLA	CHC-C1C	3.04	1.42	1.35
31	4	204	CLA	CHC-C1C	3.04	1.42	1.35
31	4	210	CLA	CHC-C1C	3.04	1.42	1.35
31	8	309	CLA	C1D-ND	3.03	1.41	1.37
33	B	518	BCR	C30-C25	-3.03	1.49	1.53
31	3	313	CLA	CHC-C1C	3.03	1.42	1.35
31	5	308	CLA	C4D-ND	-3.03	1.33	1.37
31	2	314	CLA	CHC-C1C	3.03	1.42	1.35
31	C	513	CLA	CHC-C1C	3.03	1.42	1.35
31	c	508	CLA	CHC-C1C	3.03	1.42	1.35
31	B	510	CLA	CHC-C1C	3.03	1.42	1.35
31	P	601	CLA	C1D-ND	3.03	1.41	1.37
31	C	502	CLA	C4D-ND	-3.03	1.33	1.37
31	C	510	CLA	CHC-C1C	3.03	1.42	1.35
31	9	211	CLA	C4D-ND	-3.03	1.33	1.37
31	0	309	CLA	C4D-ND	-3.03	1.33	1.37
31	C	514	CLA	C4D-ND	-3.03	1.33	1.37
31	5	306	CLA	C4D-ND	-3.03	1.33	1.37
31	9	204	CLA	CHC-C1C	3.03	1.42	1.35
31	5	305	CLA	CHC-C1C	3.02	1.42	1.35
31	p	604	CLA	CHC-C1C	3.02	1.42	1.35
31	7	308	CLA	C4D-ND	-3.02	1.33	1.37
31	1	214	CLA	CHC-C1C	3.02	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C	507	CLA	CHC-C1C	3.02	1.42	1.35
31	3	309	CLA	C1D-ND	3.02	1.41	1.37
31	7	308	CLA	CHC-C1C	3.02	1.42	1.35
31	2	308	CLA	CHC-C1C	3.02	1.42	1.35
31	B	515	CLA	CHC-C1C	3.02	1.42	1.35
31	3	304	CLA	CHC-C1C	3.02	1.42	1.35
31	b	504	CLA	CHC-C1C	3.02	1.42	1.35
31	c	514	CLA	C4D-ND	-3.02	1.33	1.37
31	6	215	CLA	C4D-ND	-3.02	1.33	1.37
31	3	305	CLA	CHC-C1C	3.02	1.42	1.35
31	c	507	CLA	CHC-C1C	3.02	1.42	1.35
31	8	313	CLA	CHC-C1C	3.01	1.42	1.35
31	6	216	CLA	C4D-ND	-3.01	1.33	1.37
31	C	508	CLA	CHC-C1C	3.01	1.42	1.35
31	7	311	CLA	C4D-ND	-3.01	1.33	1.37
31	2	311	CLA	C4D-ND	-3.01	1.33	1.37
31	b	516	CLA	CHC-C1C	3.01	1.42	1.35
34	a	409	SQD	O48-C23	3.01	1.42	1.33
31	1	212	CLA	C4D-ND	-3.01	1.33	1.37
31	8	307	CLA	CHC-C1C	3.01	1.42	1.35
31	c	512	CLA	CHC-C1C	3.01	1.42	1.35
31	1	214	CLA	C4D-ND	-3.01	1.33	1.37
31	4	211	CLA	CHC-C1C	3.01	1.42	1.35
31	0	311	CLA	C4D-ND	-3.01	1.33	1.37
31	P	607	CLA	CHC-C1C	3.01	1.42	1.35
33	a	408	BCR	C30-C25	-3.01	1.49	1.53
31	C	503	CLA	CHC-C1C	3.01	1.42	1.35
31	c	503	CLA	CHC-C1C	3.01	1.42	1.35
31	C	512	CLA	CHC-C1C	3.01	1.42	1.35
31	5	309	CLA	C4D-ND	-3.00	1.33	1.37
31	0	308	CLA	C4D-ND	-3.00	1.33	1.37
31	3	310	CLA	C4D-ND	-3.00	1.33	1.37
34	A	409	SQD	O48-C23	3.00	1.42	1.33
31	p	607	CLA	CHC-C1C	3.00	1.42	1.35
31	p	601	CLA	C1D-ND	3.00	1.41	1.37
31	7	315	CLA	C4D-ND	-3.00	1.33	1.37
31	1	209	CLA	C4D-ND	-3.00	1.33	1.37
31	6	212	CLA	C4D-ND	-2.99	1.33	1.37
31	p	606	CLA	CHC-C1C	2.99	1.42	1.35
31	C	502	CLA	CHC-C1C	2.99	1.42	1.35
31	3	307	CLA	CHC-C1C	2.99	1.42	1.35
31	b	502	CLA	CHC-C1C	2.99	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	c	502	CLA	CHC-C1C	2.99	1.42	1.35
31	B	509	CLA	CHC-C1C	2.99	1.42	1.35
31	B	501	CLA	CHC-C1C	2.99	1.42	1.35
31	b	510	CLA	CHC-C1C	2.99	1.42	1.35
31	9	211	CLA	CHC-C1C	2.99	1.42	1.35
31	b	502	CLA	C4D-ND	-2.98	1.33	1.37
31	b	505	CLA	C4D-ND	-2.98	1.33	1.37
31	B	504	CLA	C4D-ND	-2.98	1.33	1.37
31	P	605	CLA	CHC-C1C	2.98	1.42	1.35
31	C	504	CLA	CHC-C1C	2.98	1.42	1.35
31	a	404	CLA	CHC-C1C	2.98	1.42	1.35
31	0	310	CLA	C4D-ND	-2.98	1.33	1.37
31	D	404	CLA	CHC-C1C	2.97	1.42	1.35
31	6	209	CLA	C4D-ND	-2.97	1.33	1.37
31	C	505	CLA	CHC-C1C	2.97	1.42	1.35
31	c	505	CLA	CHC-C1C	2.97	1.42	1.35
31	p	605	CLA	CHC-C1C	2.97	1.42	1.35
31	p	609	CLA	CHC-C1C	2.97	1.42	1.35
31	8	305	CLA	CHC-C1C	2.97	1.42	1.35
31	7	312	CLA	C4D-ND	-2.97	1.33	1.37
31	2	312	CLA	C4D-ND	-2.97	1.33	1.37
31	P	609	CLA	CHC-C1C	2.97	1.42	1.35
31	5	307	CLA	C4D-ND	-2.97	1.33	1.37
31	0	307	CLA	C4D-ND	-2.97	1.33	1.37
31	4	212	CLA	C4D-ND	-2.97	1.33	1.37
31	5	314	CLA	C4D-ND	-2.97	1.33	1.37
31	c	504	CLA	CHC-C1C	2.96	1.42	1.35
31	1	216	CLA	C4D-ND	-2.96	1.33	1.37
31	5	312	CLA	C4D-ND	-2.96	1.33	1.37
42	p	610	A86	C19-C18	-2.96	1.48	1.52
31	A	404	CLA	CHC-C1C	2.96	1.42	1.35
31	P	606	CLA	CHC-C1C	2.96	1.42	1.35
31	5	310	CLA	C4D-ND	-2.96	1.33	1.37
31	9	212	CLA	C4D-ND	-2.96	1.33	1.37
31	B	506	CLA	CHC-C1C	2.96	1.42	1.35
31	5	304	CLA	C4D-ND	-2.95	1.33	1.37
31	0	304	CLA	C4D-ND	-2.95	1.33	1.37
31	d	401	CLA	CHC-C1C	2.95	1.42	1.35
31	0	312	CLA	C4D-ND	-2.95	1.33	1.37
41	f	101	HEM	CAB-C3B	2.95	1.55	1.47
31	6	213	CLA	C4D-ND	-2.95	1.33	1.37
31	d	404	CLA	CHC-C1C	2.95	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	501	CLA	C4D-ND	-2.95	1.33	1.37
41	V	201	HEM	CAB-C3B	2.95	1.55	1.47
31	5	311	CLA	C4D-ND	-2.94	1.33	1.37
31	8	309	CLA	CHC-C1C	2.94	1.42	1.35
33	c	516	BCR	C30-C25	-2.94	1.49	1.53
31	2	308	CLA	C4D-ND	-2.94	1.33	1.37
31	D	401	CLA	CHC-C1C	2.94	1.42	1.35
31	W	202	CLA	C1D-ND	2.94	1.41	1.37
41	F	101	HEM	CAB-C3B	2.94	1.55	1.47
31	7	305	CLA	C4D-ND	-2.94	1.33	1.37
31	b	507	CLA	CHC-C1C	2.93	1.42	1.35
35	a	410	PL9	C7-C3	-2.93	1.48	1.51
31	7	313	CLA	C4D-ND	-2.93	1.33	1.37
31	3	309	CLA	CHC-C1C	2.93	1.42	1.35
31	1	215	CLA	C4D-ND	-2.93	1.33	1.37
31	B	512	CLA	CHC-C1C	2.93	1.42	1.35
41	v	201	HEM	CAB-C3B	2.92	1.55	1.47
31	b	505	CLA	CHC-C1C	2.92	1.42	1.35
35	A	410	PL9	C7-C3	-2.92	1.48	1.51
31	6	210	CLA	C4D-ND	-2.92	1.33	1.37
31	9	207	CLA	CHC-C1C	2.92	1.42	1.35
31	b	513	CLA	CHC-C1C	2.92	1.42	1.35
31	3	312	CLA	CHC-C1C	2.92	1.42	1.35
31	0	314	CLA	C4D-ND	-2.91	1.33	1.37
31	7	316	CLA	C4D-ND	-2.91	1.33	1.37
31	8	312	CLA	CHC-C1C	2.91	1.42	1.35
31	P	601	CLA	CHC-C1C	2.91	1.42	1.35
35	D	406	PL9	C6-C1	-2.90	1.43	1.48
33	B	519	BCR	C30-C25	-2.90	1.49	1.53
31	w	202	CLA	C1D-ND	2.90	1.41	1.37
31	B	504	CLA	CHC-C1C	2.90	1.42	1.35
32	A	405	PHO	CAC-C3C	-2.90	1.47	1.52
33	b	520	BCR	C30-C25	-2.90	1.49	1.53
31	4	207	CLA	CHC-C1C	2.89	1.42	1.35
35	d	406	PL9	C6-C1	-2.89	1.43	1.48
31	4	208	CLA	CHC-C1C	2.89	1.42	1.35
31	1	210	CLA	C4D-ND	-2.89	1.33	1.37
31	p	601	CLA	CHC-C1C	2.89	1.42	1.35
31	5	313	CLA	C4D-ND	-2.89	1.33	1.37
31	9	208	CLA	CHC-C1C	2.88	1.42	1.35
42	P	610	A86	C19-C18	-2.88	1.48	1.52
31	2	305	CLA	C4D-ND	-2.88	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	b	501	SQD	O47-C7	2.88	1.42	1.34
31	1	213	CLA	C4D-ND	-2.88	1.33	1.37
34	B	523	SQD	O47-C7	2.87	1.42	1.34
34	B	522	SQD	O47-C7	2.87	1.42	1.34
33	C	516	BCR	C30-C25	-2.87	1.49	1.53
31	2	316	CLA	C4D-ND	-2.87	1.33	1.37
32	a	405	PHO	CAC-C3C	-2.87	1.47	1.52
31	9	209	CLA	CHC-C1C	2.86	1.42	1.35
31	2	313	CLA	C4D-ND	-2.86	1.33	1.37
31	0	313	CLA	C4D-ND	-2.86	1.33	1.37
34	A	411	SQD	O47-C7	2.85	1.42	1.34
31	4	209	CLA	CHC-C1C	2.84	1.42	1.35
34	a	409	SQD	O47-C7	2.83	1.42	1.34
31	B	511	CLA	CMB-C2B	-2.82	1.45	1.51
31	3	311	CLA	CHC-C1C	2.81	1.42	1.35
31	b	512	CLA	CMB-C2B	-2.81	1.45	1.51
33	c	517	BCR	C30-C25	-2.81	1.49	1.53
34	A	409	SQD	O47-C7	2.81	1.42	1.34
31	9	213	CLA	CMB-C2B	-2.80	1.45	1.51
31	9	213	CLA	CHC-C1C	2.80	1.42	1.35
31	8	311	CLA	CHC-C1C	2.79	1.42	1.35
33	C	517	BCR	C30-C25	-2.79	1.49	1.53
31	P	609	CLA	C4D-ND	-2.79	1.33	1.37
31	4	213	CLA	CHC-C1C	2.78	1.42	1.35
34	0	316	SQD	O47-C7	2.77	1.42	1.34
31	4	213	CLA	CMB-C2B	-2.76	1.45	1.51
34	5	316	SQD	O47-C7	2.75	1.42	1.34
31	c	509	CLA	CMB-C2B	-2.74	1.45	1.51
31	5	305	CLA	CMB-C2B	-2.72	1.46	1.51
31	C	509	CLA	CMB-C2B	-2.72	1.46	1.51
42	p	610	A86	C32-C31	-2.71	1.50	1.54
42	P	610	A86	C32-C31	-2.71	1.50	1.54
31	p	609	CLA	C4D-ND	-2.70	1.34	1.37
31	0	305	CLA	CMB-C2B	-2.70	1.46	1.51
31	8	312	CLA	CMB-C2B	-2.69	1.46	1.51
31	p	606	CLA	CMB-C2B	-2.68	1.46	1.51
31	3	311	CLA	CMB-C2B	-2.67	1.46	1.51
31	8	311	CLA	CMB-C2B	-2.66	1.46	1.51
35	A	410	PL9	C3-C4	-2.65	1.45	1.49
31	3	304	CLA	CMB-C2B	-2.65	1.46	1.51
31	c	507	CLA	CMB-C2B	-2.64	1.46	1.51
35	a	410	PL9	C3-C4	-2.64	1.45	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	0	302	ET4	C23-C22	2.63	1.47	1.42
31	P	606	CLA	CMB-C2B	-2.63	1.46	1.51
31	3	312	CLA	CMB-C2B	-2.63	1.46	1.51
31	C	507	CLA	CMB-C2B	-2.63	1.46	1.51
31	8	304	CLA	CMB-C2B	-2.62	1.46	1.51
31	9	206	CLA	CMB-C2B	-2.62	1.46	1.51
31	8	313	CLA	CMB-C2B	-2.61	1.46	1.51
43	5	302	ET4	C23-C22	2.61	1.47	1.42
31	3	313	CLA	CMB-C2B	-2.61	1.46	1.51
43	5	302	ET4	C20-C21	2.61	1.51	1.43
44	8	303	DD6	O1-C20	-2.61	1.42	1.46
31	D	401	CLA	CMB-C2B	-2.60	1.46	1.51
31	4	207	CLA	CMB-C2B	-2.60	1.46	1.51
44	3	303	DD6	O1-C20	-2.60	1.42	1.46
43	0	302	ET4	C20-C21	2.60	1.51	1.43
31	4	206	CLA	CMB-C2B	-2.60	1.46	1.51
31	d	401	CLA	CMB-C2B	-2.59	1.46	1.51
31	3	310	CLA	CMB-C2B	-2.58	1.46	1.51
31	9	208	CLA	CMB-C2B	-2.58	1.46	1.51
39	C	518	DGD	O2G-C2G	-2.57	1.40	1.46
31	9	207	CLA	CMB-C2B	-2.57	1.46	1.51
39	c	518	DGD	O2G-C2G	-2.56	1.40	1.46
31	3	314	CLA	CMB-C2B	-2.56	1.46	1.51
31	7	309	CLA	CMB-C2B	-2.56	1.46	1.51
31	2	309	CLA	CMB-C2B	-2.56	1.46	1.51
31	C	503	CLA	CMB-C2B	-2.55	1.46	1.51
31	c	503	CLA	CMB-C2B	-2.55	1.46	1.51
31	3	307	CLA	CMB-C2B	-2.55	1.46	1.51
31	9	205	CLA	CMB-C2B	-2.55	1.46	1.51
31	2	307	CLA	CMB-C2B	-2.55	1.46	1.51
31	8	308	CLA	CMB-C2B	-2.54	1.46	1.51
31	P	609	CLA	CMB-C2B	-2.54	1.46	1.51
42	5	303	A86	O1-C20	-2.54	1.42	1.46
31	7	314	CLA	CMB-C2B	-2.54	1.46	1.51
31	9	210	CLA	CMB-C2B	-2.54	1.46	1.51
31	2	314	CLA	CMB-C2B	-2.54	1.46	1.51
31	B	515	CLA	CMB-C2B	-2.54	1.46	1.51
31	b	511	CLA	CMB-C2B	-2.54	1.46	1.51
31	3	305	CLA	CMB-C2B	-2.54	1.46	1.51
31	8	307	CLA	CMB-C2B	-2.54	1.46	1.51
31	B	514	CLA	CMB-C2B	-2.54	1.46	1.51
31	4	208	CLA	CMB-C2B	-2.53	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	b	515	CLA	CMB-C2B	-2.53	1.46	1.51
31	8	310	CLA	CMB-C2B	-2.53	1.46	1.51
42	0	303	A86	O1-C20	-2.53	1.42	1.46
31	4	210	CLA	CMB-C2B	-2.53	1.46	1.51
31	P	602	CLA	CMB-C2B	-2.53	1.46	1.51
31	4	209	CLA	CMB-C2B	-2.53	1.46	1.51
31	9	209	CLA	CMB-C2B	-2.53	1.46	1.51
31	8	314	CLA	CMB-C2B	-2.53	1.46	1.51
32	A	406	PHO	CAC-C3C	-2.53	1.47	1.52
31	b	504	CLA	CMB-C2B	-2.53	1.46	1.51
31	8	309	CLA	CMB-C2B	-2.53	1.46	1.51
31	4	205	CLA	CMB-C2B	-2.53	1.46	1.51
31	p	601	CLA	CMB-C2B	-2.52	1.46	1.51
31	8	305	CLA	CMB-C2B	-2.52	1.46	1.51
31	b	509	CLA	CMB-C2B	-2.52	1.46	1.51
31	B	510	CLA	CMB-C2B	-2.52	1.46	1.51
31	1	201	CLA	CMB-C2B	-2.52	1.46	1.51
31	P	607	CLA	CMB-C2B	-2.52	1.46	1.51
31	8	306	CLA	CMB-C2B	-2.52	1.46	1.51
31	3	306	CLA	CMB-C2B	-2.52	1.46	1.51
31	B	516	CLA	CMB-C2B	-2.52	1.46	1.51
31	3	308	CLA	CMB-C2B	-2.52	1.46	1.51
31	5	309	CLA	CMB-C2B	-2.52	1.46	1.51
32	a	406	PHO	CAC-C3C	-2.52	1.47	1.52
31	A	404	CLA	CMB-C2B	-2.51	1.46	1.51
31	P	605	CLA	C3B-CAB	-2.51	1.42	1.47
31	B	503	CLA	CMB-C2B	-2.51	1.46	1.51
31	6	201	CLA	CMB-C2B	-2.51	1.46	1.51
31	B	508	CLA	CMB-C2B	-2.51	1.46	1.51
31	p	604	CLA	CMB-C2B	-2.51	1.46	1.51
31	p	602	CLA	CMB-C2B	-2.51	1.46	1.51
31	B	509	CLA	CMC-C2C	-2.51	1.45	1.50
31	b	516	CLA	CMB-C2B	-2.51	1.46	1.51
31	P	601	CLA	CMB-C2B	-2.51	1.46	1.51
31	b	510	CLA	CMC-C2C	-2.51	1.45	1.50
31	a	404	CLA	CMB-C2B	-2.50	1.46	1.51
31	3	309	CLA	CMB-C2B	-2.50	1.46	1.51
31	p	609	CLA	CMB-C2B	-2.50	1.46	1.51
36	B	521	LHG	O7-C5	-2.50	1.40	1.46
31	9	204	CLA	CMB-C2B	-2.50	1.46	1.51
31	b	502	CLA	CMB-C2B	-2.50	1.46	1.51
31	P	608	CLA	CMB-C2B	-2.50	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	7	307	CLA	CMB-C2B	-2.49	1.46	1.51
31	w	202	CLA	CMB-C2B	-2.49	1.46	1.51
31	p	607	CLA	CMB-C2B	-2.49	1.46	1.51
31	b	508	CLA	CMB-C2B	-2.49	1.46	1.51
31	D	404	CLA	CMB-C2B	-2.49	1.46	1.51
31	2	305	CLA	CMB-C2B	-2.49	1.46	1.51
31	c	505	CLA	CMB-C2B	-2.48	1.46	1.51
31	P	603	CLA	CMB-C2B	-2.48	1.46	1.51
31	B	504	CLA	CMB-C2B	-2.48	1.46	1.51
31	D	403	CLA	CMB-C2B	-2.48	1.46	1.51
36	b	522	LHG	O7-C5	-2.48	1.40	1.46
31	b	517	CLA	CMB-C2B	-2.48	1.46	1.51
31	B	509	CLA	CMB-C2B	-2.48	1.46	1.51
31	b	510	CLA	CMB-C2B	-2.48	1.46	1.51
31	B	507	CLA	CMB-C2B	-2.48	1.46	1.51
31	P	605	CLA	CMB-C2B	-2.48	1.46	1.51
31	c	504	CLA	CMB-C2B	-2.48	1.46	1.51
31	d	403	CLA	CMB-C2B	-2.48	1.46	1.51
31	B	501	CLA	CMB-C2B	-2.48	1.46	1.51
31	5	304	CLA	CMB-C2B	-2.48	1.46	1.51
31	d	404	CLA	CMB-C2B	-2.47	1.46	1.51
31	0	304	CLA	CMB-C2B	-2.47	1.46	1.51
31	c	513	CLA	CMB-C2B	-2.47	1.46	1.51
31	p	605	CLA	CMB-C2B	-2.47	1.46	1.51
31	0	308	CLA	CMB-C2B	-2.47	1.46	1.51
31	4	204	CLA	CMB-C2B	-2.47	1.46	1.51
31	b	505	CLA	CMB-C2B	-2.47	1.46	1.51
31	P	604	CLA	CMB-C2B	-2.47	1.46	1.51
31	C	505	CLA	CMB-C2B	-2.47	1.46	1.51
31	p	608	CLA	CMB-C2B	-2.47	1.46	1.51
31	5	311	CLA	CMB-C2B	-2.46	1.46	1.51
31	b	506	CLA	CMB-C2B	-2.46	1.46	1.51
31	7	305	CLA	CMB-C2B	-2.46	1.46	1.51
31	6	215	CLA	CMB-C2B	-2.46	1.46	1.51
31	W	202	CLA	CMB-C2B	-2.46	1.46	1.51
31	9	211	CLA	CMB-C2B	-2.46	1.46	1.51
31	C	504	CLA	CMB-C2B	-2.46	1.46	1.51
31	0	309	CLA	CMB-C2B	-2.46	1.46	1.51
31	p	603	CLA	CMB-C2B	-2.45	1.46	1.51
31	p	605	CLA	C3B-CAB	-2.45	1.42	1.47
31	1	215	CLA	CMB-C2B	-2.45	1.46	1.51
31	c	508	CLA	CMB-C2B	-2.45	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C	511	CLA	CMB-C2B	-2.45	1.46	1.51
31	c	511	CLA	CMB-C2B	-2.45	1.46	1.51
31	0	313	CLA	CMB-C2B	-2.45	1.46	1.51
31	C	513	CLA	CMB-C2B	-2.45	1.46	1.51
31	4	212	CLA	CMB-C2B	-2.45	1.46	1.51
31	0	314	CLA	CMB-C2B	-2.45	1.46	1.51
31	7	312	CLA	CMB-C2B	-2.45	1.46	1.51
31	C	508	CLA	CMB-C2B	-2.45	1.46	1.51
31	c	506	CLA	CMB-C2B	-2.45	1.46	1.51
31	4	211	CLA	CMB-C2B	-2.44	1.46	1.51
31	B	505	CLA	CMB-C2B	-2.44	1.46	1.51
35	D	406	PL9	C53-C6	-2.44	1.45	1.50
31	2	308	CLA	CMB-C2B	-2.44	1.46	1.51
31	6	213	CLA	CMB-C2B	-2.44	1.46	1.51
31	1	213	CLA	CMB-C2B	-2.44	1.46	1.51
31	5	312	CLA	CMB-C2B	-2.44	1.46	1.51
31	0	312	CLA	CMB-C2B	-2.44	1.46	1.51
31	5	310	CLA	CMB-C2B	-2.44	1.46	1.51
31	0	310	CLA	CMB-C2B	-2.44	1.46	1.51
31	z	101	CLA	CMB-C2B	-2.44	1.46	1.51
31	7	306	CLA	CMB-C2B	-2.44	1.46	1.51
31	p	605	CLA	MG-ND	-2.44	2.01	2.05
31	B	513	CLA	CMB-C2B	-2.44	1.46	1.51
31	5	308	CLA	CMB-C2B	-2.43	1.46	1.51
35	d	406	PL9	C53-C6	-2.43	1.45	1.50
31	b	514	CLA	CMB-C2B	-2.43	1.46	1.51
31	2	316	CLA	CMB-C2B	-2.43	1.46	1.51
31	C	502	CLA	CMB-C2B	-2.43	1.46	1.51
31	7	315	CLA	CMB-C2B	-2.43	1.46	1.51
31	Z	101	CLA	CMB-C2B	-2.43	1.46	1.51
31	6	205	CLA	CMB-C2B	-2.43	1.46	1.51
31	1	205	CLA	CMB-C2B	-2.43	1.46	1.51
42	3	301	A86	C19-C18	2.42	1.55	1.52
36	a	411	LHG	O7-C5	-2.42	1.40	1.46
31	0	306	CLA	CMB-C2B	-2.42	1.46	1.51
31	6	211	CLA	CMB-C2B	-2.42	1.46	1.51
31	9	212	CLA	CMB-C2B	-2.42	1.46	1.51
31	1	211	CLA	CMB-C2B	-2.42	1.46	1.51
31	C	506	CLA	CMB-C2B	-2.42	1.46	1.51
31	7	316	CLA	CMB-C2B	-2.42	1.46	1.51
31	0	307	CLA	CMB-C2B	-2.42	1.46	1.51
31	a	403	CLA	CMB-C2B	-2.42	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	6	209	CLA	CMB-C2B	-2.42	1.46	1.51
31	1	209	CLA	CMB-C2B	-2.42	1.46	1.51
31	7	311	CLA	CMB-C2B	-2.42	1.46	1.51
31	B	506	CLA	CMB-C2B	-2.42	1.46	1.51
31	a	407	CLA	CMB-C2B	-2.42	1.46	1.51
31	2	311	CLA	CMB-C2B	-2.42	1.46	1.51
31	w	202	CLA	CMD-C2D	-2.42	1.45	1.50
31	7	308	CLA	CMB-C2B	-2.42	1.46	1.51
31	0	311	CLA	CMB-C2B	-2.42	1.46	1.51
31	6	208	CLA	CMB-C2B	-2.42	1.46	1.51
31	C	512	CLA	CMB-C2B	-2.41	1.46	1.51
31	6	207	CLA	CMB-C2B	-2.41	1.46	1.51
31	1	207	CLA	CMB-C2B	-2.41	1.46	1.51
31	c	512	CLA	CMB-C2B	-2.41	1.46	1.51
31	b	507	CLA	CMB-C2B	-2.41	1.46	1.51
31	A	407	CLA	CMB-C2B	-2.41	1.46	1.51
31	c	502	CLA	CMB-C2B	-2.41	1.46	1.51
31	1	210	CLA	CMB-C2B	-2.41	1.46	1.51
31	2	306	CLA	CMB-C2B	-2.41	1.46	1.51
31	A	403	CLA	CMB-C2B	-2.41	1.46	1.51
31	2	315	CLA	CMB-C2B	-2.41	1.46	1.51
36	A	412	LHG	O7-C5	-2.41	1.40	1.46
31	1	208	CLA	CMB-C2B	-2.40	1.46	1.51
31	5	314	CLA	CMB-C2B	-2.40	1.46	1.51
31	W	202	CLA	CMD-C2D	-2.40	1.45	1.50
31	P	605	CLA	MG-ND	-2.40	2.01	2.05
31	B	502	CLA	CMB-C2B	-2.40	1.46	1.51
42	P	610	A86	C19-C20	-2.40	1.48	1.52
31	6	216	CLA	CMB-C2B	-2.39	1.46	1.51
31	C	510	CLA	CMB-C2B	-2.39	1.46	1.51
39	c	519	DGD	O1G-C1G	-2.39	1.39	1.45
36	d	407	LHG	O7-C5	-2.39	1.40	1.46
31	P	606	CLA	MG-ND	-2.39	2.01	2.05
39	C	519	DGD	O1G-C1G	-2.39	1.39	1.45
42	8	301	A86	C32-C31	-2.38	1.50	1.54
31	b	503	CLA	CMB-C2B	-2.38	1.46	1.51
31	2	312	CLA	CMB-C2B	-2.38	1.46	1.51
31	B	512	CLA	CMB-C2B	-2.38	1.46	1.51
31	5	313	CLA	CMB-C2B	-2.38	1.46	1.51
36	D	407	LHG	O7-C5	-2.38	1.40	1.46
31	C	514	CLA	CMB-C2B	-2.38	1.46	1.51
31	c	510	CLA	CMB-C2B	-2.38	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	3	308	CLA	CHA-C4D	2.38	1.43	1.38
31	5	306	CLA	CMB-C2B	-2.38	1.46	1.51
31	1	212	CLA	CMB-C2B	-2.38	1.46	1.51
31	5	307	CLA	CMB-C2B	-2.38	1.46	1.51
31	6	212	CLA	CMB-C2B	-2.38	1.46	1.51
42	p	610	A86	C19-C20	-2.37	1.48	1.52
31	p	606	CLA	MG-ND	-2.37	2.01	2.05
42	8	301	A86	C13-C11	-2.37	1.45	1.49
31	b	513	CLA	CMB-C2B	-2.37	1.46	1.51
31	1	216	CLA	CMB-C2B	-2.37	1.46	1.51
31	2	310	CLA	CMB-C2B	-2.37	1.46	1.51
42	8	301	A86	C19-C18	2.37	1.55	1.52
31	6	214	CLA	CMB-C2B	-2.37	1.46	1.51
31	1	214	CLA	CMB-C2B	-2.37	1.46	1.51
37	m	101	LMG	O7-C8	-2.36	1.40	1.46
42	4	201	A86	C19-C18	-2.36	1.48	1.52
44	7	303	DD6	O1-C20	-2.36	1.42	1.46
31	6	206	CLA	CMB-C2B	-2.36	1.46	1.51
31	c	514	CLA	CMB-C2B	-2.36	1.46	1.51
31	7	310	CLA	CMB-C2B	-2.35	1.46	1.51
31	2	313	CLA	CMB-C2B	-2.35	1.46	1.51
42	P	610	A86	C13-C11	-2.35	1.45	1.49
44	2	303	DD6	O1-C20	-2.35	1.42	1.46
31	6	210	CLA	CMB-C2B	-2.35	1.46	1.51
31	7	313	CLA	CMB-C2B	-2.35	1.46	1.51
42	p	610	A86	C13-C11	-2.35	1.45	1.49
37	M	101	LMG	O7-C8	-2.34	1.40	1.46
31	5	305	CLA	CMC-C2C	-2.33	1.45	1.50
31	8	308	CLA	CHA-C4D	2.33	1.42	1.38
42	9	201	A86	C19-C18	-2.33	1.49	1.52
42	3	301	A86	C13-C11	-2.33	1.45	1.49
31	1	206	CLA	CMB-C2B	-2.32	1.46	1.51
37	D	410	LMG	C3-C2	2.31	1.58	1.52
44	6	203	DD6	O1-C20	-2.31	1.42	1.46
37	d	410	LMG	C3-C2	2.30	1.58	1.52
31	0	305	CLA	CMC-C2C	-2.30	1.45	1.50
42	3	301	A86	C32-C31	-2.30	1.50	1.54
44	1	203	DD6	O1-C20	-2.30	1.42	1.46
31	8	311	CLA	C3B-C2B	-2.29	1.37	1.40
42	3	302	A86	C19-C18	-2.29	1.49	1.52
31	3	311	CLA	C3B-C2B	-2.29	1.37	1.40
31	P	605	CLA	CMD-C2D	-2.28	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	c	518	DGD	O1G-C1G	-2.28	1.40	1.45
31	8	312	CLA	C3B-C2B	-2.27	1.37	1.40
43	0	302	ET4	C16-C17	2.27	1.50	1.43
31	4	208	CLA	MG-ND	-2.27	2.01	2.05
39	h	102	DGD	O1G-C1G	-2.27	1.40	1.45
42	9	202	A86	C19-C18	-2.27	1.49	1.52
42	8	302	A86	C13-C11	-2.27	1.45	1.49
31	3	312	CLA	C3B-C2B	-2.26	1.37	1.40
39	C	518	DGD	O1G-C1G	-2.26	1.40	1.45
39	H	102	DGD	O1G-C1G	-2.26	1.40	1.45
31	9	208	CLA	MG-ND	-2.25	2.01	2.05
42	4	202	A86	C19-C18	-2.25	1.49	1.52
35	D	406	PL9	C52-C5	-2.25	1.46	1.50
43	5	302	ET4	C16-C17	2.25	1.50	1.43
42	8	302	A86	C19-C18	-2.25	1.49	1.52
31	p	605	CLA	CMD-C2D	-2.25	1.46	1.50
39	h	102	DGD	O2G-C2G	-2.25	1.41	1.46
31	c	506	CLA	CMD-C2D	-2.24	1.46	1.50
31	4	212	CLA	CBD-CAD	2.24	1.56	1.51
37	m	102	LMG	O7-C8	-2.24	1.41	1.46
37	M	102	LMG	O7-C8	-2.24	1.41	1.46
37	d	410	LMG	C1-C2	2.24	1.58	1.52
42	3	302	A86	C13-C11	-2.24	1.45	1.49
31	9	212	CLA	CBD-CAD	2.23	1.56	1.51
31	3	308	CLA	C3B-C2B	-2.23	1.37	1.40
34	A	409	SQD	O2-C2	-2.23	1.37	1.43
39	H	102	DGD	O2G-C2G	-2.23	1.41	1.46
37	D	410	LMG	C1-C2	2.23	1.58	1.52
34	a	409	SQD	O2-C2	-2.22	1.37	1.43
31	p	602	CLA	CMC-C2C	-2.22	1.46	1.50
31	C	506	CLA	CMD-C2D	-2.22	1.46	1.50
31	B	509	CLA	CMD-C2D	-2.22	1.46	1.50
43	5	302	ET4	C15-C14	2.22	1.50	1.43
43	0	302	ET4	C15-C14	2.22	1.50	1.43
35	d	406	PL9	C52-C5	-2.22	1.46	1.50
42	1	202	A86	C13-C11	-2.22	1.45	1.49
34	5	316	SQD	O2-C2	-2.22	1.37	1.43
34	0	316	SQD	O2-C2	-2.21	1.37	1.43
42	6	202	A86	C13-C11	-2.20	1.45	1.49
31	8	306	CLA	CMD-C2D	-2.20	1.46	1.50
31	P	602	CLA	CMC-C2C	-2.20	1.46	1.50
37	D	410	LMG	O1-C7	-2.20	1.39	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	d	410	LMG	O1-C7	-2.19	1.39	1.43
36	D	412	LHG	P-O6	2.19	1.67	1.60
36	d	412	LHG	P-O6	2.19	1.67	1.60
42	7	302	A86	C13-C11	-2.19	1.45	1.49
31	3	307	CLA	CMD-C2D	-2.19	1.46	1.50
31	8	312	CLA	C3B-CAB	-2.19	1.43	1.47
31	p	609	CLA	CMD-C2D	-2.19	1.46	1.50
44	6	204	DD6	O1-C20	-2.18	1.43	1.46
42	5	303	A86	C32-C31	-2.18	1.50	1.54
42	0	303	A86	C32-C31	-2.18	1.50	1.54
31	b	510	CLA	CMD-C2D	-2.18	1.46	1.50
31	P	601	CLA	CMD-C2D	-2.18	1.46	1.50
31	p	605	CLA	C3B-C2B	-2.18	1.37	1.40
31	b	515	CLA	CMD-C2D	-2.18	1.46	1.50
31	3	306	CLA	CMD-C2D	-2.18	1.46	1.50
43	0	302	ET4	C11-C10	2.18	1.50	1.43
34	0	316	SQD	O4-C4	-2.17	1.37	1.43
43	0	302	ET4	C01-C06	2.17	1.56	1.53
31	P	609	CLA	CMD-C2D	-2.17	1.46	1.50
32	a	406	PHO	CMC-C2C	-2.17	1.46	1.51
31	8	313	CLA	CMD-C2D	-2.17	1.46	1.50
31	8	308	CLA	C3B-C2B	-2.17	1.37	1.40
31	p	601	CLA	CMD-C2D	-2.17	1.46	1.50
31	8	307	CLA	CMD-C2D	-2.16	1.46	1.50
31	8	310	CLA	C3B-C2B	-2.16	1.37	1.40
41	v	201	HEM	CAA-C2A	2.16	1.55	1.52
35	A	410	PL9	C6-C1	-2.16	1.44	1.48
43	5	302	ET4	C11-C10	2.16	1.50	1.43
31	8	305	CLA	CMC-C2C	-2.16	1.46	1.50
31	3	305	CLA	CMC-C2C	-2.16	1.46	1.50
32	a	405	PHO	CMC-C2C	-2.16	1.46	1.51
31	4	206	CLA	CMD-C2D	-2.16	1.46	1.50
41	V	201	HEM	CAA-C2A	2.15	1.55	1.52
31	P	605	CLA	C3B-C2B	-2.15	1.37	1.40
37	y	101	LMG	O7-C8	-2.15	1.41	1.46
31	B	516	CLA	CMC-C2C	-2.15	1.46	1.50
31	2	314	CLA	CMD-C2D	-2.15	1.46	1.50
31	8	307	CLA	MG-ND	-2.15	2.01	2.05
31	B	514	CLA	CMD-C2D	-2.15	1.46	1.50
31	3	313	CLA	CMD-C2D	-2.15	1.46	1.50
32	A	405	PHO	CMC-C2C	-2.14	1.46	1.51
44	1	204	DD6	O1-C20	-2.14	1.43	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	A	406	PHO	CMC-C2C	-2.14	1.46	1.51
31	9	208	CLA	CMD-C2D	-2.14	1.46	1.50
31	9	204	CLA	CMD-C2D	-2.14	1.46	1.50
43	5	302	ET4	C38-C33	2.14	1.37	1.34
43	0	302	ET4	C38-C33	2.14	1.37	1.34
34	5	316	SQD	O4-C4	-2.14	1.37	1.43
31	b	505	CLA	CMD-C2D	-2.14	1.46	1.50
34	5	316	SQD	O3-C3	-2.14	1.37	1.43
34	0	316	SQD	O3-C3	-2.14	1.37	1.43
42	2	302	A86	C13-C11	-2.14	1.45	1.49
31	3	309	CLA	CMC-C2C	-2.14	1.46	1.50
31	3	307	CLA	MG-ND	-2.14	2.01	2.05
31	3	314	CLA	CMD-C2D	-2.14	1.46	1.50
31	8	311	CLA	CMD-C2D	-2.14	1.46	1.50
31	4	206	CLA	C3B-C2B	-2.14	1.37	1.40
31	p	606	CLA	CMD-C2D	-2.14	1.46	1.50
34	B	523	SQD	O2-C2	-2.13	1.38	1.43
34	b	501	SQD	O2-C2	-2.13	1.38	1.43
35	a	410	PL9	C53-C6	-2.13	1.46	1.50
31	b	517	CLA	CMC-C2C	-2.13	1.46	1.50
31	D	403	CLA	CMD-C2D	-2.13	1.46	1.50
31	3	304	CLA	CMD-C2D	-2.13	1.46	1.50
31	p	602	CLA	CMD-C2D	-2.13	1.46	1.50
37	Y	101	LMG	O7-C8	-2.13	1.41	1.46
31	d	403	CLA	CMD-C2D	-2.13	1.46	1.50
31	2	309	CLA	CMD-C2D	-2.13	1.46	1.50
31	5	308	CLA	CMD-C2D	-2.13	1.46	1.50
31	0	308	CLA	CMD-C2D	-2.13	1.46	1.50
31	4	207	CLA	C3B-CAB	-2.13	1.43	1.47
31	3	312	CLA	C3B-CAB	-2.13	1.43	1.47
31	P	606	CLA	CMD-C2D	-2.13	1.46	1.50
35	A	410	PL9	C53-C6	-2.13	1.46	1.50
31	9	211	CLA	CBD-CAD	2.13	1.56	1.51
31	p	603	CLA	CMD-C2D	-2.13	1.46	1.50
31	9	206	CLA	C3B-C2B	-2.12	1.37	1.40
31	a	403	CLA	CMD-C2D	-2.12	1.46	1.50
31	4	204	CLA	CMD-C2D	-2.12	1.46	1.50
31	3	304	CLA	MG-ND	-2.12	2.01	2.05
31	B	504	CLA	CMD-C2D	-2.12	1.46	1.50
31	b	507	CLA	CMD-C2D	-2.12	1.46	1.50
31	8	309	CLA	CMC-C2C	-2.12	1.46	1.50
31	5	310	CLA	CMD-C2D	-2.12	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	0	310	CLA	CMD-C2D	-2.12	1.46	1.50
31	W	202	CLA	MG-ND	-2.12	2.01	2.05
31	9	213	CLA	CMD-C2D	-2.12	1.46	1.50
31	3	312	CLA	CMD-C2D	-2.12	1.46	1.50
43	5	302	ET4	C01-C06	2.11	1.56	1.53
31	4	208	CLA	CMD-C2D	-2.11	1.46	1.50
31	8	304	CLA	CMD-C2D	-2.11	1.46	1.50
31	8	304	CLA	MG-ND	-2.11	2.01	2.05
39	C	519	DGD	O5D-C6D	-2.11	1.39	1.43
31	P	602	CLA	CMD-C2D	-2.11	1.46	1.50
31	b	504	CLA	CMD-C2D	-2.11	1.46	1.50
32	a	406	PHO	CMD-C2D	-2.11	1.46	1.51
31	3	310	CLA	CMD-C2D	-2.11	1.46	1.50
31	b	508	CLA	CMD-C2D	-2.11	1.46	1.50
35	a	410	PL9	C6-C1	-2.11	1.44	1.48
31	c	509	CLA	CMD-C2D	-2.11	1.46	1.50
31	A	403	CLA	CMD-C2D	-2.11	1.46	1.50
31	B	503	CLA	CMD-C2D	-2.11	1.46	1.50
39	c	519	DGD	O5D-C6D	-2.11	1.39	1.43
31	8	312	CLA	CMD-C2D	-2.11	1.46	1.50
32	a	405	PHO	CMD-C2D	-2.11	1.46	1.51
31	4	211	CLA	CBD-CAD	2.11	1.56	1.51
31	7	314	CLA	CMD-C2D	-2.11	1.46	1.50
31	3	311	CLA	CMD-C2D	-2.11	1.46	1.50
31	B	506	CLA	CMD-C2D	-2.11	1.46	1.50
31	P	603	CLA	CMD-C2D	-2.10	1.46	1.50
31	w	202	CLA	MG-ND	-2.10	2.01	2.05
34	a	409	SQD	O4-C4	-2.10	1.38	1.43
31	4	213	CLA	CMD-C2D	-2.10	1.46	1.50
31	C	508	CLA	CMD-C2D	-2.10	1.46	1.50
31	7	310	CLA	CMC-C2C	-2.10	1.46	1.50
44	1	204	DD6	C36-C31	-2.10	1.32	1.34
31	3	305	CLA	C3B-C2B	-2.10	1.37	1.40
31	B	507	CLA	CMD-C2D	-2.10	1.46	1.50
31	b	506	CLA	CMD-C2D	-2.10	1.46	1.50
31	3	308	CLA	CMC-C2C	-2.10	1.46	1.50
31	9	206	CLA	CMD-C2D	-2.10	1.46	1.50
31	9	207	CLA	C3B-CAB	-2.10	1.43	1.47
31	7	309	CLA	CMD-C2D	-2.10	1.46	1.50
31	8	310	CLA	CMD-C2D	-2.10	1.46	1.50
31	B	505	CLA	CMD-C2D	-2.10	1.46	1.50
31	3	311	CLA	MG-ND	-2.10	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	511	CLA	CMD-C2D	-2.10	1.46	1.50
31	9	207	CLA	C3B-C2B	-2.09	1.37	1.40
31	4	209	CLA	CMD-C2D	-2.09	1.46	1.50
36	D	412	LHG	O7-C5	-2.09	1.41	1.46
36	d	412	LHG	O7-C5	-2.09	1.41	1.46
31	C	511	CLA	CMD-C2D	-2.09	1.46	1.50
32	A	406	PHO	CMD-C2D	-2.09	1.46	1.51
31	A	404	CLA	CMD-C2D	-2.09	1.46	1.50
31	2	306	CLA	CMC-C2C	-2.09	1.46	1.50
31	P	608	CLA	CMD-C2D	-2.09	1.46	1.50
42	7	302	A86	C26-C27	-2.09	1.33	1.35
31	9	209	CLA	CMD-C2D	-2.09	1.46	1.50
31	c	508	CLA	CMD-C2D	-2.09	1.46	1.50
31	a	404	CLA	CMD-C2D	-2.09	1.46	1.50
34	A	409	SQD	O4-C4	-2.09	1.38	1.43
31	B	512	CLA	CMD-C2D	-2.09	1.46	1.50
31	8	314	CLA	CBD-CAD	2.09	1.56	1.51
31	2	311	CLA	CMD-C2D	-2.09	1.46	1.50
31	8	314	CLA	CMD-C2D	-2.09	1.46	1.50
31	p	604	CLA	CMC-C2C	-2.09	1.46	1.50
31	B	516	CLA	CMD-C2D	-2.09	1.46	1.50
34	A	409	SQD	O3-C3	-2.09	1.38	1.43
31	4	207	CLA	C3B-C2B	-2.09	1.37	1.40
37	D	408	LMG	O7-C8	-2.09	1.41	1.46
31	9	205	CLA	CMD-C2D	-2.09	1.46	1.50
31	3	310	CLA	CBD-CAD	2.08	1.56	1.51
31	p	606	CLA	CMC-C2C	-2.08	1.46	1.50
31	2	310	CLA	CMC-C2C	-2.08	1.46	1.50
32	A	405	PHO	CMD-C2D	-2.08	1.46	1.51
34	a	409	SQD	O3-C3	-2.08	1.38	1.43
31	b	503	CLA	CMD-C2D	-2.08	1.46	1.50
31	8	304	CLA	CBD-CAD	2.08	1.56	1.51
31	z	101	CLA	CMD-C2D	-2.08	1.46	1.50
37	d	408	LMG	O7-C8	-2.08	1.41	1.46
31	b	514	CLA	CMD-C2D	-2.08	1.46	1.50
31	3	309	CLA	C3B-C2B	-2.08	1.37	1.40
31	4	205	CLA	MG-ND	-2.08	2.01	2.05
31	c	502	CLA	CMD-C2D	-2.08	1.46	1.50
31	b	513	CLA	CMD-C2D	-2.08	1.46	1.50
34	A	411	SQD	O2-C2	-2.08	1.38	1.43
31	b	517	CLA	CMD-C2D	-2.08	1.46	1.50
31	P	606	CLA	CMC-C2C	-2.08	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	8	305	CLA	C3B-C2B	-2.08	1.37	1.40
31	B	513	CLA	CMD-C2D	-2.08	1.46	1.50
31	b	512	CLA	CMD-C2D	-2.08	1.46	1.50
31	6	214	CLA	CMD-C2D	-2.08	1.46	1.50
31	8	310	CLA	CBD-CAD	2.08	1.56	1.51
31	c	511	CLA	CMD-C2D	-2.08	1.46	1.50
31	P	606	CLA	C3B-C2B	-2.08	1.37	1.40
31	8	313	CLA	MG-ND	-2.08	2.01	2.05
31	C	509	CLA	CMD-C2D	-2.07	1.46	1.50
39	C	518	DGD	O5D-C6D	-2.07	1.40	1.43
31	3	304	CLA	CBD-CAD	2.07	1.56	1.51
31	B	502	CLA	CMD-C2D	-2.07	1.46	1.50
31	8	307	CLA	CMC-C2C	-2.07	1.46	1.50
31	1	209	CLA	CMD-C2D	-2.07	1.46	1.50
31	P	604	CLA	CMC-C2C	-2.07	1.46	1.50
31	9	205	CLA	MG-ND	-2.07	2.01	2.05
39	c	518	DGD	O5D-C6D	-2.07	1.40	1.43
31	4	205	CLA	CBD-CAD	2.07	1.56	1.51
31	8	305	CLA	CMD-C2D	-2.07	1.46	1.50
37	w	201	LMG	O7-C8	-2.07	1.41	1.46
31	B	515	CLA	CMD-C2D	-2.07	1.46	1.50
31	4	205	CLA	CMD-C2D	-2.07	1.46	1.50
34	b	501	SQD	O3-C3	-2.07	1.38	1.43
31	B	514	CLA	CMC-C2C	-2.07	1.46	1.50
31	b	515	CLA	CMC-C2C	-2.07	1.46	1.50
31	0	304	CLA	CMD-C2D	-2.07	1.46	1.50
31	B	515	CLA	C3B-C2B	-2.07	1.37	1.40
31	c	507	CLA	CMD-C2D	-2.07	1.46	1.50
42	2	302	A86	C26-C27	-2.07	1.33	1.35
37	j	101	LMG	O8-C9	-2.07	1.40	1.45
31	0	307	CLA	CMD-C2D	-2.07	1.46	1.50
31	p	609	CLA	CMC-C2C	-2.06	1.46	1.50
31	B	505	CLA	CMC-C2C	-2.06	1.46	1.50
32	A	405	PHO	CMB-C2B	-2.06	1.46	1.51
31	8	311	CLA	MG-ND	-2.06	2.01	2.05
31	D	404	CLA	CMD-C2D	-2.06	1.46	1.50
31	p	607	CLA	CMD-C2D	-2.06	1.46	1.50
31	9	205	CLA	CBD-CAD	2.06	1.56	1.51
31	3	307	CLA	CMC-C2C	-2.06	1.46	1.50
31	8	308	CLA	CMC-C2C	-2.06	1.46	1.50
31	8	309	CLA	C3B-C2B	-2.06	1.37	1.40
32	a	406	PHO	CMB-C2B	-2.06	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C	502	CLA	CMD-C2D	-2.06	1.46	1.50
31	C	510	CLA	CMD-C2D	-2.06	1.46	1.50
31	5	305	CLA	CMD-C2D	-2.06	1.46	1.50
31	b	506	CLA	CMC-C2C	-2.06	1.46	1.50
31	4	213	CLA	CMC-C2C	-2.06	1.46	1.50
31	1	216	CLA	CMD-C2D	-2.06	1.46	1.50
31	9	208	CLA	C3B-C2B	-2.06	1.37	1.40
31	p	604	CLA	CMD-C2D	-2.06	1.46	1.50
31	C	503	CLA	CMC-C2C	-2.06	1.46	1.50
31	3	310	CLA	C3B-C2B	-2.06	1.37	1.40
44	p	611	DD6	O1-C20	-2.06	1.43	1.46
31	8	308	CLA	CMD-C2D	-2.06	1.46	1.50
34	B	522	SQD	O2-C2	-2.06	1.38	1.43
31	P	606	CLA	C3B-CAB	-2.06	1.43	1.47
31	p	608	CLA	CMD-C2D	-2.06	1.46	1.50
31	p	606	CLA	C3B-C2B	-2.06	1.37	1.40
31	C	505	CLA	CMD-C2D	-2.06	1.46	1.50
31	D	401	CLA	CMD-C2D	-2.05	1.46	1.50
31	d	404	CLA	CMD-C2D	-2.05	1.46	1.50
31	3	305	CLA	CMD-C2D	-2.05	1.46	1.50
31	Z	101	CLA	CMD-C2D	-2.05	1.46	1.50
31	7	305	CLA	CMD-C2D	-2.05	1.46	1.50
31	4	206	CLA	CMC-C2C	-2.05	1.46	1.50
31	5	306	CLA	CMD-C2D	-2.05	1.46	1.50
31	C	507	CLA	CMD-C2D	-2.05	1.46	1.50
31	5	312	CLA	CMD-C2D	-2.05	1.46	1.50
31	6	211	CLA	CMD-C2D	-2.05	1.46	1.50
31	1	211	CLA	CMD-C2D	-2.05	1.46	1.50
31	B	510	CLA	CMD-C2D	-2.05	1.46	1.50
31	c	510	CLA	CMD-C2D	-2.05	1.46	1.50
31	6	207	CLA	CMD-C2D	-2.05	1.46	1.50
37	W	201	LMG	O7-C8	-2.05	1.41	1.46
31	C	513	CLA	CMD-C2D	-2.05	1.46	1.50
31	C	514	CLA	CMD-C2D	-2.05	1.46	1.50
31	c	514	CLA	CMD-C2D	-2.05	1.46	1.50
34	B	523	SQD	O3-C3	-2.05	1.38	1.43
31	1	201	CLA	CMD-C2D	-2.05	1.46	1.50
31	5	309	CLA	CMD-C2D	-2.05	1.46	1.50
31	6	216	CLA	CMD-C2D	-2.05	1.46	1.50
36	H	103	LHG	P-O6	2.05	1.67	1.59
31	A	407	CLA	CMD-C2D	-2.05	1.46	1.50
31	7	306	CLA	CMC-C2C	-2.05	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	B	501	CLA	CMD-C2D	-2.05	1.46	1.50
31	b	516	CLA	CMD-C2D	-2.05	1.46	1.50
31	P	609	CLA	CMC-C2C	-2.04	1.46	1.50
42	9	202	A86	C13-C11	-2.04	1.45	1.49
31	7	310	CLA	CMD-C2D	-2.04	1.46	1.50
31	P	604	CLA	CMD-C2D	-2.04	1.46	1.50
31	2	310	CLA	CMD-C2D	-2.04	1.46	1.50
36	A	413	LHG	O7-C5	-2.04	1.41	1.46
31	4	209	CLA	MG-ND	-2.04	2.01	2.05
31	7	311	CLA	CMD-C2D	-2.04	1.46	1.50
31	0	306	CLA	CMD-C2D	-2.04	1.46	1.50
31	c	508	CLA	CMC-C2C	-2.04	1.46	1.50
31	3	314	CLA	CBD-CAD	2.04	1.56	1.51
32	A	406	PHO	CMB-C2B	-2.04	1.46	1.51
31	d	401	CLA	CMD-C2D	-2.04	1.46	1.50
31	p	606	CLA	C3B-CAB	-2.04	1.43	1.47
36	a	412	LHG	O7-C5	-2.04	1.41	1.46
32	a	405	PHO	CMB-C2B	-2.04	1.46	1.51
31	b	516	CLA	C3B-C2B	-2.04	1.37	1.40
31	6	201	CLA	CMD-C2D	-2.04	1.46	1.50
31	5	304	CLA	CMD-C2D	-2.04	1.46	1.50
31	6	210	CLA	CMD-C2D	-2.04	1.46	1.50
31	6	212	CLA	CMD-C2D	-2.04	1.46	1.50
31	1	210	CLA	CMD-C2D	-2.04	1.46	1.50
31	1	212	CLA	CMD-C2D	-2.04	1.46	1.50
31	0	309	CLA	CMD-C2D	-2.04	1.46	1.50
31	b	511	CLA	CMD-C2D	-2.04	1.46	1.50
31	c	505	CLA	CMD-C2D	-2.04	1.46	1.50
31	a	407	CLA	CMD-C2D	-2.04	1.46	1.50
31	5	307	CLA	CMD-C2D	-2.04	1.46	1.50
31	3	313	CLA	MG-ND	-2.04	2.01	2.05
31	3	305	CLA	MG-ND	-2.04	2.01	2.05
31	4	209	CLA	CMC-C2C	-2.04	1.46	1.50
31	9	207	CLA	CMC-C2C	-2.04	1.46	1.50
31	9	209	CLA	MG-ND	-2.04	2.01	2.05
31	C	504	CLA	CMD-C2D	-2.04	1.46	1.50
31	1	214	CLA	CMD-C2D	-2.04	1.46	1.50
31	6	209	CLA	CMD-C2D	-2.03	1.46	1.50
31	6	211	CLA	CMC-C2C	-2.03	1.46	1.50
31	9	207	CLA	CMD-C2D	-2.03	1.46	1.50
31	1	211	CLA	CMC-C2C	-2.03	1.46	1.50
31	2	308	CLA	CMD-C2D	-2.03	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	C	512	CLA	CMD-C2D	-2.03	1.46	1.50
31	2	305	CLA	CMD-C2D	-2.03	1.46	1.50
31	P	607	CLA	CMC-C2C	-2.03	1.46	1.50
31	9	208	CLA	CMC-C2C	-2.03	1.46	1.50
31	P	605	CLA	CMC-C2C	-2.03	1.46	1.50
31	1	213	CLA	CMD-C2D	-2.03	1.46	1.50
37	J	101	LMG	O8-C9	-2.03	1.40	1.45
39	C	519	DGD	O6D-C5D	-2.03	1.39	1.44
31	c	512	CLA	CMD-C2D	-2.03	1.46	1.50
31	C	509	CLA	CMC-C2C	-2.03	1.46	1.50
31	9	213	CLA	CMC-C2C	-2.03	1.46	1.50
39	c	519	DGD	O6D-C5D	-2.03	1.39	1.44
31	d	404	CLA	CMC-C2C	-2.03	1.46	1.50
31	3	308	CLA	CMD-C2D	-2.03	1.46	1.50
31	3	309	CLA	CMD-C2D	-2.03	1.46	1.50
31	b	502	CLA	CMD-C2D	-2.03	1.46	1.50
31	d	403	CLA	CMC-C2C	-2.03	1.46	1.50
34	B	522	SQD	O4-C4	-2.03	1.38	1.43
31	c	503	CLA	CMC-C2C	-2.03	1.46	1.50
31	7	316	CLA	CMD-C2D	-2.03	1.46	1.50
31	8	305	CLA	MG-ND	-2.03	2.01	2.05
31	B	506	CLA	CMC-C2C	-2.03	1.46	1.50
31	4	207	CLA	CMD-C2D	-2.02	1.46	1.50
31	8	311	CLA	C3B-CAB	-2.02	1.43	1.47
31	b	513	CLA	CMC-C2C	-2.02	1.46	1.50
31	B	508	CLA	CMD-C2D	-2.02	1.46	1.50
31	P	607	CLA	CMD-C2D	-2.02	1.46	1.50
31	b	507	CLA	CMC-C2C	-2.02	1.46	1.50
31	5	313	CLA	CMD-C2D	-2.02	1.46	1.50
31	9	209	CLA	CMC-C2C	-2.02	1.46	1.50
31	b	516	CLA	CMC-C2C	-2.02	1.46	1.50
31	c	504	CLA	CMD-C2D	-2.02	1.46	1.50
34	b	501	SQD	O4-C4	-2.02	1.38	1.43
31	C	508	CLA	CMC-C2C	-2.02	1.46	1.50
31	P	608	CLA	CMC-C2C	-2.02	1.46	1.50
31	p	603	CLA	CMC-C2C	-2.02	1.46	1.50
31	1	206	CLA	CMD-C2D	-2.02	1.46	1.50
31	c	513	CLA	CMD-C2D	-2.02	1.46	1.50
42	9	203	A86	C13-C11	-2.02	1.45	1.49
31	2	313	CLA	CMD-C2D	-2.02	1.46	1.50
31	c	510	CLA	CMC-C2C	-2.02	1.46	1.50
36	h	103	LHG	P-O6	2.02	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	1	205	CLA	CMD-C2D	-2.02	1.46	1.50
31	4	208	CLA	CMC-C2C	-2.02	1.46	1.50
31	B	502	CLA	CMC-C2C	-2.02	1.46	1.50
31	9	211	CLA	CMD-C2D	-2.02	1.46	1.50
36	d	407	LHG	O6-C4	-2.02	1.39	1.44
31	0	313	CLA	CMD-C2D	-2.01	1.46	1.50
31	p	607	CLA	CMC-C2C	-2.01	1.46	1.50
31	p	608	CLA	CMC-C2C	-2.01	1.46	1.50
31	B	511	CLA	CMC-C2C	-2.01	1.46	1.50
31	D	403	CLA	CMC-C2C	-2.01	1.46	1.50
42	4	202	A86	C13-C11	-2.01	1.45	1.49
31	4	207	CLA	CMC-C2C	-2.01	1.46	1.50
31	8	309	CLA	CMD-C2D	-2.01	1.46	1.50
31	9	206	CLA	CMC-C2C	-2.01	1.46	1.50
31	p	605	CLA	CMC-C2C	-2.01	1.46	1.50
31	b	512	CLA	CMC-C2C	-2.01	1.46	1.50
31	4	213	CLA	CAC-C3C	-2.01	1.46	1.50
31	3	313	CLA	CMC-C2C	-2.01	1.46	1.50
31	b	509	CLA	CMD-C2D	-2.01	1.46	1.50
31	w	202	CLA	CMC-C2C	-2.01	1.46	1.50
31	C	512	CLA	CMC-C2C	-2.01	1.46	1.50
31	B	503	CLA	CMC-C2C	-2.01	1.46	1.50
31	B	512	CLA	CMC-C2C	-2.01	1.46	1.50
31	D	404	CLA	CMC-C2C	-2.01	1.46	1.50
31	c	511	CLA	CMC-C2C	-2.01	1.46	1.50
31	5	314	CLA	CMD-C2D	-2.01	1.46	1.50
31	0	314	CLA	CMD-C2D	-2.01	1.46	1.50
44	7	304	DD6	O1-C20	-2.01	1.43	1.46
44	2	304	DD6	O1-C20	-2.01	1.43	1.46
34	B	523	SQD	O4-C4	-2.01	1.38	1.43
31	0	305	CLA	CMD-C2D	-2.00	1.46	1.50
31	0	308	CLA	CMC-C2C	-2.00	1.46	1.50
31	C	510	CLA	CMC-C2C	-2.00	1.46	1.50
31	1	207	CLA	CMD-C2D	-2.00	1.46	1.50
31	c	504	CLA	CMC-C2C	-2.00	1.46	1.50
31	5	310	CLA	CMC-C2C	-2.00	1.46	1.50
31	0	310	CLA	CMC-C2C	-2.00	1.46	1.50

All (2878) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	8	301	A86	O1-C20-C19	-20.74	97.80	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	3	301	A86	O1-C20-C19	-20.71	97.83	113.38
42	3	301	A86	C40-C32-C31	-17.41	94.89	110.47
42	8	301	A86	C40-C32-C31	-17.36	94.94	110.47
42	p	610	A86	O1-C15-C14	-15.87	81.36	113.21
42	P	610	A86	O1-C15-C14	-15.87	81.36	113.21
42	8	302	A86	O1-C15-C14	-14.58	83.96	113.21
42	3	302	A86	O1-C15-C14	-14.57	83.98	113.21
42	9	201	A86	O1-C15-C14	-14.52	84.08	113.21
42	4	201	A86	O1-C15-C14	-14.49	84.14	113.21
42	9	203	A86	O1-C15-C14	-13.49	86.15	113.21
42	4	203	A86	O1-C15-C14	-13.48	86.16	113.21
42	7	302	A86	O1-C15-C14	-13.40	86.32	113.21
42	2	302	A86	O1-C15-C14	-13.40	86.32	113.21
42	4	202	A86	O1-C15-C14	-13.31	86.49	113.21
42	9	202	A86	O1-C15-C14	-13.31	86.49	113.21
42	4	201	A86	C41-C32-C31	12.99	122.10	110.47
42	9	201	A86	C41-C32-C31	12.99	122.10	110.47
42	2	301	A86	O1-C15-C14	-12.12	88.89	113.21
42	7	301	A86	O1-C15-C14	-12.10	88.92	113.21
42	0	317	A86	O1-C15-C14	-12.02	89.09	113.21
42	5	317	A86	O1-C15-C14	-12.01	89.11	113.21
31	3	308	CLA	CHA-C4D-ND	11.57	135.09	124.45
31	8	308	CLA	CHA-C4D-ND	11.56	135.07	124.45
42	6	202	A86	O1-C15-C14	-11.27	90.60	113.21
42	1	202	A86	O1-C15-C14	-11.25	90.64	113.21
42	8	301	A86	C35-C34-C33	-10.46	91.62	109.88
42	3	301	A86	C35-C34-C33	-10.45	91.64	109.88
42	3	301	A86	C23-C16-C22	-9.61	93.20	107.37
42	8	301	A86	C23-C16-C22	-9.58	93.23	107.37
44	8	303	DD6	C10-C9-C8	9.23	152.01	123.22
44	3	303	DD6	C10-C9-C8	9.20	151.93	123.22
42	9	203	A86	O1-C20-C21	-9.14	104.10	115.06
42	p	610	A86	C41-C32-C31	-9.09	102.34	110.47
42	4	203	A86	O1-C20-C21	-9.08	104.17	115.06
42	P	610	A86	C41-C32-C31	-9.06	102.36	110.47
42	9	203	A86	O1-C20-C19	8.99	120.14	113.38
42	4	203	A86	O1-C20-C19	8.98	120.13	113.38
42	P	610	A86	O1-C20-C19	8.74	119.95	113.38
42	p	610	A86	O1-C20-C19	8.67	119.90	113.38
42	0	301	A86	O1-C15-C14	8.64	130.54	113.21
42	5	301	A86	O1-C15-C14	8.62	130.52	113.21
42	4	202	A86	O4-C38-C39	8.45	126.64	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	9	202	A86	O4-C38-C39	8.45	126.64	111.09
44	8	303	DD6	C9-C10-C11	8.42	139.33	127.31
44	3	303	DD6	C9-C10-C11	8.38	139.26	127.31
31	8	309	CLA	C4A-NA-C1A	8.30	110.44	106.71
42	9	201	A86	C33-C32-C31	-8.27	101.17	109.21
42	4	201	A86	C33-C32-C31	-8.26	101.19	109.21
31	3	309	CLA	C4A-NA-C1A	8.21	110.40	106.71
42	4	201	A86	O4-C34-C35	-8.04	87.58	107.59
42	9	201	A86	O4-C34-C35	-8.03	87.59	107.59
44	7	304	DD6	C4-C5-C6	-8.02	115.86	127.31
44	2	304	DD6	C4-C5-C6	-8.02	115.86	127.31
42	8	301	A86	O1-C20-C21	-7.90	105.59	115.06
42	8	302	A86	O1-C20-C19	7.90	119.31	113.38
42	3	301	A86	O1-C20-C21	-7.88	105.61	115.06
42	3	302	A86	O1-C20-C19	7.85	119.28	113.38
42	5	301	A86	C25-C26-C27	-7.83	116.14	127.31
42	5	317	A86	C17-C16-C15	7.81	117.13	109.16
42	0	317	A86	C17-C16-C15	7.81	117.13	109.16
42	0	301	A86	C25-C26-C27	-7.79	116.19	127.31
42	2	301	A86	C17-C16-C15	7.76	117.08	109.16
42	7	301	A86	C17-C16-C15	7.76	117.08	109.16
42	1	202	A86	C17-C16-C15	7.72	117.04	109.16
42	6	202	A86	C17-C16-C15	7.70	117.02	109.16
44	8	303	DD6	C9-C8-C6	7.68	147.99	126.42
44	3	303	DD6	C9-C8-C6	7.66	147.93	126.42
44	7	304	DD6	C14-C13-C11	-7.56	113.80	125.53
44	2	304	DD6	C14-C13-C11	-7.56	113.80	125.53
42	3	301	A86	C21-C20-C19	-7.52	105.83	114.28
42	8	301	A86	C21-C20-C19	-7.48	105.86	114.28
42	7	302	A86	C3-C2-C1	-7.39	116.77	127.31
42	2	302	A86	C3-C2-C1	-7.36	116.81	127.31
42	P	610	A86	C33-C32-C31	7.25	116.26	109.21
42	p	610	A86	C33-C32-C31	7.22	116.23	109.21
31	3	304	CLA	C4A-NA-C1A	7.22	109.95	106.71
31	3	308	CLA	CHA-C4D-C3D	-7.16	113.01	125.26
31	c	508	CLA	C4A-NA-C1A	7.16	109.92	106.71
31	8	308	CLA	CHA-C4D-C3D	-7.14	113.05	125.26
31	6	206	CLA	C4A-NA-C1A	7.12	109.91	106.71
31	8	304	CLA	C4A-NA-C1A	7.11	109.90	106.71
31	b	507	CLA	C4A-NA-C1A	7.09	109.89	106.71
31	C	512	CLA	C4A-NA-C1A	7.09	109.89	106.71
31	c	512	CLA	C4A-NA-C1A	7.08	109.89	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	C	508	CLA	C4A-NA-C1A	7.04	109.87	106.71
31	B	506	CLA	C4A-NA-C1A	7.03	109.87	106.71
31	b	510	CLA	C4A-NA-C1A	7.03	109.86	106.71
31	6	210	CLA	C4A-NA-C1A	7.02	109.86	106.71
42	4	203	A86	O4-C38-C39	7.01	123.99	111.09
31	B	509	CLA	C4A-NA-C1A	7.00	109.85	106.71
42	9	203	A86	O4-C38-C39	6.99	123.95	111.09
42	0	303	A86	O1-C20-C19	-6.99	108.13	113.38
31	b	516	CLA	C4A-NA-C1A	6.99	109.85	106.71
42	5	303	A86	O1-C20-C19	-6.99	108.13	113.38
31	0	307	CLA	C4A-NA-C1A	6.98	109.84	106.71
31	1	206	CLA	C4A-NA-C1A	6.97	109.84	106.71
42	4	202	A86	C34-O4-C38	6.96	130.86	117.90
42	9	202	A86	C34-O4-C38	6.96	130.86	117.90
31	c	504	CLA	C4A-NA-C1A	6.96	109.83	106.71
31	C	504	CLA	C4A-NA-C1A	6.95	109.83	106.71
31	B	512	CLA	C4A-NA-C1A	6.94	109.83	106.71
31	b	513	CLA	C4A-NA-C1A	6.94	109.82	106.71
31	1	210	CLA	C4A-NA-C1A	6.94	109.82	106.71
31	5	307	CLA	C4A-NA-C1A	6.90	109.81	106.71
31	B	515	CLA	C4A-NA-C1A	6.89	109.80	106.71
31	p	603	CLA	C4A-NA-C1A	6.89	109.80	106.71
44	7	303	DD6	C9-C10-C11	-6.88	117.48	127.31
44	1	203	DD6	C9-C10-C11	-6.88	117.49	127.31
31	9	207	CLA	C4A-NA-C1A	6.87	109.80	106.71
44	2	303	DD6	C9-C10-C11	-6.87	117.51	127.31
44	6	203	DD6	C9-C10-C11	-6.87	117.51	127.31
44	7	304	DD6	C9-C10-C11	-6.83	117.56	127.31
44	2	304	DD6	C9-C10-C11	-6.83	117.56	127.31
31	B	504	CLA	C4A-NA-C1A	6.80	109.76	106.71
31	P	603	CLA	C4A-NA-C1A	6.80	109.76	106.71
31	b	505	CLA	C4A-NA-C1A	6.80	109.76	106.71
31	C	505	CLA	C4A-NA-C1A	6.79	109.76	106.71
31	c	505	CLA	C4A-NA-C1A	6.79	109.76	106.71
31	4	207	CLA	C4A-NA-C1A	6.78	109.75	106.71
31	5	311	CLA	C4A-NA-C1A	6.77	109.75	106.71
31	0	311	CLA	C4A-NA-C1A	6.77	109.75	106.71
31	8	305	CLA	C4A-NA-C1A	6.76	109.74	106.71
31	2	310	CLA	C4A-NA-C1A	6.76	109.74	106.71
31	p	601	CLA	C4A-NA-C1A	6.76	109.74	106.71
31	c	502	CLA	C4A-NA-C1A	6.74	109.74	106.71
31	8	311	CLA	C4A-NA-C1A	6.74	109.73	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	b	502	CLA	C4A-NA-C1A	6.74	109.73	106.71
31	a	403	CLA	C4A-NA-C1A	6.73	109.73	106.71
31	3	305	CLA	C4A-NA-C1A	6.73	109.73	106.71
31	C	510	CLA	C4A-NA-C1A	6.72	109.73	106.71
31	b	506	CLA	C4A-NA-C1A	6.72	109.73	106.71
31	1	214	CLA	C4A-NA-C1A	6.72	109.73	106.71
31	2	306	CLA	C4A-NA-C1A	6.71	109.72	106.71
31	A	403	CLA	C4A-NA-C1A	6.71	109.72	106.71
31	3	311	CLA	C4A-NA-C1A	6.70	109.72	106.71
31	p	609	CLA	C4A-NA-C1A	6.70	109.72	106.71
31	P	609	CLA	C4A-NA-C1A	6.70	109.72	106.71
44	6	204	DD6	C14-C13-C11	-6.67	115.17	125.53
31	c	510	CLA	C4A-NA-C1A	6.67	109.70	106.71
31	B	505	CLA	C4A-NA-C1A	6.67	109.70	106.71
31	7	306	CLA	C4A-NA-C1A	6.66	109.70	106.71
44	1	204	DD6	C14-C13-C11	-6.66	115.20	125.53
31	C	502	CLA	C4A-NA-C1A	6.66	109.70	106.71
31	b	517	CLA	C4A-NA-C1A	6.65	109.69	106.71
31	7	315	CLA	C4A-NA-C1A	6.65	109.69	106.71
31	9	209	CLA	C4A-NA-C1A	6.65	109.69	106.71
31	6	214	CLA	C4A-NA-C1A	6.64	109.69	106.71
31	7	310	CLA	C4A-NA-C1A	6.64	109.69	106.71
31	B	501	CLA	C4A-NA-C1A	6.64	109.69	106.71
31	B	507	CLA	C4A-NA-C1A	6.63	109.69	106.71
31	8	313	CLA	C4A-NA-C1A	6.63	109.69	106.71
31	4	209	CLA	C4A-NA-C1A	6.61	109.68	106.71
31	P	604	CLA	C4A-NA-C1A	6.61	109.68	106.71
31	3	313	CLA	C4A-NA-C1A	6.61	109.68	106.71
31	b	508	CLA	C4A-NA-C1A	6.60	109.67	106.71
31	0	304	CLA	C4A-NA-C1A	6.60	109.67	106.71
31	D	404	CLA	C4A-NA-C1A	6.59	109.67	106.71
31	B	516	CLA	C4A-NA-C1A	6.59	109.67	106.71
42	2	302	A86	O1-C20-C21	-6.58	107.17	115.06
42	7	302	A86	O1-C20-C21	-6.57	107.19	115.06
31	2	315	CLA	C4A-NA-C1A	6.56	109.66	106.71
42	P	610	A86	C4-C5-C6	-6.56	117.94	127.31
31	P	601	CLA	C4A-NA-C1A	6.56	109.66	106.71
42	p	610	A86	C4-C5-C6	-6.55	117.96	127.31
42	4	201	A86	O4-C34-C33	6.55	123.91	107.59
31	d	404	CLA	C4A-NA-C1A	6.54	109.65	106.71
31	B	510	CLA	C4A-NA-C1A	6.54	109.64	106.71
31	4	204	CLA	C4A-NA-C1A	6.54	109.64	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	9	201	A86	O4-C34-C33	6.52	123.84	107.59
31	b	511	CLA	C4A-NA-C1A	6.52	109.64	106.71
31	a	407	CLA	C4A-NA-C1A	6.51	109.64	106.71
31	6	215	CLA	C4A-NA-C1A	6.51	109.63	106.71
31	1	215	CLA	C4A-NA-C1A	6.51	109.63	106.71
31	p	604	CLA	C4A-NA-C1A	6.50	109.63	106.71
31	0	313	CLA	C4A-NA-C1A	6.50	109.63	106.71
31	1	208	CLA	C4A-NA-C1A	6.50	109.63	106.71
42	4	201	A86	C21-C20-C19	6.50	121.59	114.28
31	8	307	CLA	C4A-NA-C1A	6.50	109.63	106.71
31	b	514	CLA	C4A-NA-C1A	6.49	109.63	106.71
31	5	304	CLA	C4A-NA-C1A	6.49	109.62	106.71
31	c	514	CLA	C4A-NA-C1A	6.49	109.62	106.71
31	9	204	CLA	C4A-NA-C1A	6.48	109.62	106.71
31	A	407	CLA	C4A-NA-C1A	6.47	109.61	106.71
31	d	401	CLA	C4A-NA-C1A	6.47	109.61	106.71
31	D	401	CLA	C4A-NA-C1A	6.46	109.61	106.71
31	5	313	CLA	C4A-NA-C1A	6.46	109.61	106.71
31	A	404	CLA	C4A-NA-C1A	6.45	109.61	106.71
42	9	201	A86	C21-C20-C19	6.45	121.54	114.28
31	C	513	CLA	C4A-NA-C1A	6.45	109.61	106.71
31	0	314	CLA	C4A-NA-C1A	6.45	109.61	106.71
31	6	205	CLA	C4A-NA-C1A	6.44	109.60	106.71
31	C	514	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	5	305	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	0	305	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	2	305	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	a	404	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	C	506	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	5	306	CLA	C4A-NA-C1A	6.43	109.60	106.71
31	1	211	CLA	C4A-NA-C1A	6.43	109.59	106.71
31	B	513	CLA	C4A-NA-C1A	6.42	109.59	106.71
31	c	506	CLA	C4A-NA-C1A	6.42	109.59	106.71
31	3	314	CLA	C4A-NA-C1A	6.42	109.59	106.71
31	1	209	CLA	C4A-NA-C1A	6.42	109.59	106.71
31	6	212	CLA	C4A-NA-C1A	6.42	109.59	106.71
31	3	310	CLA	C4A-NA-C1A	6.42	109.59	106.71
31	8	310	CLA	C4A-NA-C1A	6.41	109.59	106.71
42	2	302	A86	O4-C38-C39	6.40	122.87	111.09
31	c	509	CLA	C4A-NA-C1A	6.40	109.58	106.71
31	5	309	CLA	C4A-NA-C1A	6.39	109.58	106.71
31	c	507	CLA	C4A-NA-C1A	6.39	109.58	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	c	513	CLA	C4A-NA-C1A	6.39	109.58	106.71
31	6	213	CLA	C4A-NA-C1A	6.39	109.58	106.71
31	2	313	CLA	C4A-NA-C1A	6.39	109.58	106.71
31	7	316	CLA	C4A-NA-C1A	6.39	109.58	106.71
31	9	205	CLA	C4A-NA-C1A	6.39	109.58	106.71
31	2	309	CLA	C4A-NA-C1A	6.37	109.57	106.71
42	7	302	A86	O4-C38-C39	6.37	122.82	111.09
31	C	509	CLA	C4A-NA-C1A	6.37	109.57	106.71
31	6	208	CLA	C4A-NA-C1A	6.37	109.57	106.71
31	2	307	CLA	C4A-NA-C1A	6.37	109.57	106.71
31	5	314	CLA	C4A-NA-C1A	6.37	109.57	106.71
31	1	205	CLA	C4A-NA-C1A	6.37	109.57	106.71
31	0	312	CLA	C4A-NA-C1A	6.36	109.57	106.71
31	C	507	CLA	C4A-NA-C1A	6.36	109.56	106.71
31	7	305	CLA	C4A-NA-C1A	6.35	109.56	106.71
31	5	312	CLA	C4A-NA-C1A	6.35	109.56	106.71
31	b	504	CLA	C4A-NA-C1A	6.35	109.56	106.71
31	4	205	CLA	C4A-NA-C1A	6.34	109.56	106.71
42	3	301	A86	C20-C19-C18	-6.34	100.20	112.75
31	0	306	CLA	C4A-NA-C1A	6.34	109.56	106.71
31	d	403	CLA	C4A-NA-C1A	6.34	109.56	106.71
31	1	212	CLA	C4A-NA-C1A	6.34	109.56	106.71
31	7	307	CLA	C4A-NA-C1A	6.33	109.55	106.71
31	6	209	CLA	C4A-NA-C1A	6.33	109.55	106.71
31	3	307	CLA	C4A-NA-C1A	6.33	109.55	106.71
44	1	204	DD6	C3-C2-C1	-6.33	118.28	127.31
31	6	211	CLA	C4A-NA-C1A	6.33	109.55	106.71
31	B	503	CLA	C4A-NA-C1A	6.32	109.55	106.71
31	0	310	CLA	C4A-NA-C1A	6.32	109.55	106.71
42	1	202	A86	C3-C2-C1	-6.32	118.29	127.31
44	6	204	DD6	C3-C2-C1	-6.32	118.29	127.31
31	D	403	CLA	C4A-NA-C1A	6.32	109.55	106.71
31	5	310	CLA	C4A-NA-C1A	6.32	109.55	106.71
42	8	301	A86	C20-C19-C18	-6.32	100.25	112.75
42	6	202	A86	C3-C2-C1	-6.31	118.30	127.31
31	2	316	CLA	C4A-NA-C1A	6.31	109.54	106.71
31	1	213	CLA	C4A-NA-C1A	6.31	109.54	106.71
31	8	314	CLA	C4A-NA-C1A	6.31	109.54	106.71
31	7	313	CLA	C4A-NA-C1A	6.30	109.54	106.71
31	0	309	CLA	C4A-NA-C1A	6.29	109.53	106.71
31	p	605	CLA	C4A-NA-C1A	6.28	109.53	106.71
31	b	503	CLA	C4A-NA-C1A	6.27	109.52	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	7	314	CLA	C4A-NA-C1A	6.26	109.52	106.71
31	2	314	CLA	C4A-NA-C1A	6.26	109.52	106.71
42	5	301	A86	O1-C20-C19	6.26	118.09	113.38
31	5	308	CLA	C4A-NA-C1A	6.26	109.52	106.71
42	0	301	A86	O1-C20-C19	6.26	118.08	113.38
31	7	312	CLA	C4A-NA-C1A	6.26	109.52	106.71
31	1	216	CLA	C4A-NA-C1A	6.25	109.52	106.71
31	7	309	CLA	C4A-NA-C1A	6.24	109.51	106.71
31	B	511	CLA	C4A-NA-C1A	6.24	109.51	106.71
31	B	502	CLA	C4A-NA-C1A	6.22	109.50	106.71
42	p	610	A86	C21-C20-C19	6.21	121.27	114.28
31	p	608	CLA	C4A-NA-C1A	6.21	109.50	106.71
31	b	512	CLA	C4A-NA-C1A	6.20	109.49	106.71
31	7	308	CLA	C4A-NA-C1A	6.20	109.49	106.71
31	c	503	CLA	C4A-NA-C1A	6.19	109.49	106.71
31	9	212	CLA	C4A-NA-C1A	6.19	109.49	106.71
31	C	503	CLA	C4A-NA-C1A	6.18	109.49	106.71
31	4	213	CLA	C4A-NA-C1A	6.18	109.48	106.71
42	P	610	A86	C21-C20-C19	6.17	121.22	114.28
31	B	514	CLA	C4A-NA-C1A	6.15	109.47	106.71
31	6	216	CLA	C4A-NA-C1A	6.15	109.47	106.71
31	P	605	CLA	C4A-NA-C1A	6.15	109.47	106.71
31	b	509	CLA	C4A-NA-C1A	6.15	109.47	106.71
31	B	508	CLA	C4A-NA-C1A	6.14	109.47	106.71
42	5	301	A86	O4-C38-C39	6.13	122.36	111.09
31	b	515	CLA	C4A-NA-C1A	6.11	109.45	106.71
42	0	301	A86	O4-C38-C39	6.11	122.34	111.09
31	2	308	CLA	C4A-NA-C1A	6.11	109.45	106.71
31	2	312	CLA	C4A-NA-C1A	6.09	109.44	106.71
31	Z	101	CLA	C4A-NA-C1A	6.09	109.44	106.71
31	4	212	CLA	C4A-NA-C1A	6.09	109.44	106.71
31	6	201	CLA	C4A-NA-C1A	6.08	109.44	106.71
31	9	213	CLA	C4A-NA-C1A	6.08	109.44	106.71
31	3	312	CLA	C4A-NA-C1A	6.07	109.44	106.71
31	0	308	CLA	C4A-NA-C1A	6.07	109.44	106.71
42	3	301	A86	C17-C16-C15	6.07	115.36	109.16
31	4	210	CLA	C4A-NA-C1A	6.07	109.43	106.71
31	3	306	CLA	C4A-NA-C1A	6.05	109.43	106.71
31	z	101	CLA	C4A-NA-C1A	6.05	109.43	106.71
42	8	301	A86	C17-C16-C15	6.05	115.33	109.16
44	6	204	DD6	C9-C10-C11	-6.04	118.69	127.31
31	9	206	CLA	C4A-NA-C1A	6.04	109.42	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	8	312	CLA	C4A-NA-C1A	6.04	109.42	106.71
44	1	204	DD6	C9-C10-C11	-6.04	118.70	127.31
31	9	210	CLA	C4A-NA-C1A	6.03	109.42	106.71
31	8	306	CLA	C4A-NA-C1A	6.03	109.42	106.71
42	P	610	A86	O4-C38-C39	6.02	122.16	111.09
42	p	610	A86	O4-C38-C39	6.01	122.16	111.09
31	4	211	CLA	C4A-NA-C1A	5.99	109.40	106.71
31	P	608	CLA	C4A-NA-C1A	5.98	109.39	106.71
42	7	302	A86	C35-C34-C33	-5.94	99.51	109.88
42	2	302	A86	C35-C34-C33	-5.94	99.51	109.88
31	4	206	CLA	C4A-NA-C1A	5.93	109.37	106.71
31	1	201	CLA	C4A-NA-C1A	5.91	109.36	106.71
31	9	211	CLA	C4A-NA-C1A	5.89	109.35	106.71
31	4	208	CLA	C4A-NA-C1A	5.87	109.35	106.71
42	3	301	A86	O4-C38-C39	5.87	121.89	111.09
31	C	511	CLA	C4A-NA-C1A	5.87	109.34	106.71
42	8	301	A86	O4-C38-C39	5.86	121.88	111.09
31	W	202	CLA	C4A-NA-C1A	5.86	109.34	106.71
42	0	317	A86	C35-C34-C33	-5.85	99.67	109.88
42	8	301	A86	C41-C32-C31	5.84	115.70	110.47
42	5	317	A86	C35-C34-C33	-5.84	99.69	109.88
31	c	511	CLA	C4A-NA-C1A	5.82	109.32	106.71
31	p	602	CLA	C4A-NA-C1A	5.80	109.31	106.71
31	P	602	CLA	C4A-NA-C1A	5.80	109.31	106.71
42	2	302	A86	C17-C16-C15	5.80	115.08	109.16
42	7	302	A86	C17-C16-C15	5.80	115.08	109.16
31	2	311	CLA	C4A-NA-C1A	5.80	109.31	106.71
31	9	208	CLA	C4A-NA-C1A	5.79	109.31	106.71
42	3	301	A86	C41-C32-C31	5.78	115.65	110.47
31	7	311	CLA	C4A-NA-C1A	5.76	109.30	106.71
31	w	202	CLA	C4A-NA-C1A	5.76	109.30	106.71
42	7	301	A86	C35-C34-C33	-5.75	99.84	109.88
42	2	301	A86	C35-C34-C33	-5.75	99.84	109.88
36	D	412	LHG	O4-P-O5	5.71	133.02	110.68
36	d	412	LHG	O4-P-O5	5.70	133.01	110.68
42	8	302	A86	O4-C38-C39	5.67	121.53	111.09
42	3	302	A86	O4-C38-C39	5.66	121.50	111.09
31	6	207	CLA	C4A-NA-C1A	5.61	109.23	106.71
42	6	202	A86	C25-C26-C27	-5.55	119.40	127.31
31	1	207	CLA	C4A-NA-C1A	5.51	109.18	106.71
42	1	202	A86	C25-C26-C27	-5.49	119.47	127.31
31	0	305	CLA	CMB-C2B-C1B	-5.45	120.09	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	4	202	A86	C17-C16-C15	5.44	114.72	109.16
42	0	303	A86	C3-C2-C1	-5.44	119.55	127.31
42	5	303	A86	C3-C2-C1	-5.44	119.55	127.31
31	5	305	CLA	CMB-C2B-C1B	-5.41	120.15	128.46
44	2	303	DD6	C4-C5-C6	-5.40	119.61	127.31
43	5	302	ET4	C29-C22-C23	5.39	127.52	116.84
43	0	302	ET4	C29-C22-C23	5.38	127.49	116.84
42	4	202	A86	C3-C2-C1	-5.37	119.64	127.31
44	1	203	DD6	C4-C5-C6	-5.36	119.66	127.31
42	9	202	A86	C17-C16-C15	5.35	114.62	109.16
44	6	203	DD6	C4-C5-C6	-5.35	119.67	127.31
44	7	303	DD6	C4-C5-C6	-5.34	119.68	127.31
42	5	301	A86	C17-C16-C15	5.34	114.61	109.16
42	0	301	A86	C17-C16-C15	5.34	114.61	109.16
42	9	202	A86	C3-C2-C1	-5.34	119.69	127.31
40	d	402	BCT	O2-C-O1	5.33	133.36	119.55
40	D	402	BCT	O2-C-O1	5.32	133.35	119.55
42	0	303	A86	O1-C20-C21	-5.28	108.73	115.06
42	9	201	A86	O1-C20-C19	5.25	117.33	113.38
42	8	302	A86	O1-C20-C21	-5.24	108.78	115.06
42	5	303	A86	O1-C20-C21	-5.24	108.78	115.06
42	5	301	A86	C35-C34-C33	-5.24	100.74	109.88
42	3	302	A86	O1-C20-C21	-5.23	108.79	115.06
42	0	301	A86	C35-C34-C33	-5.22	100.76	109.88
42	4	201	A86	O1-C20-C19	5.20	117.29	113.38
35	a	410	PL9	C7-C3-C4	5.15	121.06	116.88
35	A	410	PL9	C7-C3-C4	5.15	121.06	116.88
44	6	204	DD6	C4-C5-C6	-5.14	119.98	127.31
42	7	301	A86	C3-C2-C1	-5.14	119.98	127.31
44	1	204	DD6	C4-C5-C6	-5.12	120.00	127.31
42	9	202	A86	O1-C20-C19	5.12	117.23	113.38
42	2	301	A86	C3-C2-C1	-5.09	120.04	127.31
42	4	202	A86	O1-C20-C19	5.08	117.20	113.38
44	3	303	DD6	C37-C36-C31	-5.06	117.48	124.35
44	8	303	DD6	C37-C36-C31	-5.05	117.48	124.35
44	p	611	DD6	C4-C5-C6	-5.05	120.11	127.31
44	P	611	DD6	C4-C5-C6	-5.04	120.12	127.31
31	P	606	CLA	C4A-NA-C1A	5.02	108.96	106.71
35	d	406	PL9	C7-C3-C4	5.02	120.95	116.88
35	D	406	PL9	C7-C3-C4	5.00	120.94	116.88
42	3	302	A86	C25-C26-C27	-4.99	120.19	127.31
31	p	606	CLA	C4A-NA-C1A	4.98	108.95	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	8	302	A86	C25-C26-C27	-4.97	120.22	127.31
42	6	202	A86	C4-C5-C6	-4.97	120.22	127.31
42	1	202	A86	C4-C5-C6	-4.97	120.22	127.31
31	p	603	CLA	CMB-C2B-C1B	-4.97	120.83	128.46
31	p	607	CLA	C4A-NA-C1A	4.95	108.93	106.71
31	P	603	CLA	CMB-C2B-C1B	-4.95	120.85	128.46
44	P	611	DD6	C21-C20-C19	4.92	119.81	114.28
42	2	301	A86	C4-C5-C6	-4.91	120.30	127.31
44	p	611	DD6	C21-C20-C19	4.91	119.80	114.28
42	7	301	A86	C4-C5-C6	-4.90	120.31	127.31
43	5	302	ET4	C24-C05-C06	-4.90	119.02	124.53
43	0	302	ET4	C24-C05-C06	-4.90	119.03	124.53
44	8	303	DD6	C4-C5-C6	-4.87	120.35	127.31
44	6	203	DD6	C3-C2-C1	-4.87	120.36	127.31
42	4	201	A86	C4-C5-C6	-4.85	120.39	127.31
42	9	201	A86	C4-C5-C6	-4.84	120.40	127.31
31	P	604	CLA	CMB-C2B-C1B	-4.84	121.02	128.46
31	p	604	CLA	CMB-C2B-C1B	-4.82	121.05	128.46
44	2	303	DD6	C3-C2-C1	-4.82	120.43	127.31
44	1	203	DD6	C3-C2-C1	-4.82	120.43	127.31
44	3	303	DD6	C4-C5-C6	-4.82	120.44	127.31
44	7	303	DD6	C3-C2-C1	-4.81	120.45	127.31
42	9	202	A86	O4-C38-O5	-4.78	113.47	122.96
43	0	302	ET4	C30-C18-C17	-4.78	116.23	122.92
42	4	202	A86	O4-C38-O5	-4.77	113.48	122.96
31	8	307	CLA	CMB-C2B-C1B	-4.77	121.13	128.46
31	3	307	CLA	CMB-C2B-C1B	-4.77	121.14	128.46
31	P	607	CLA	C4A-NA-C1A	4.76	108.85	106.71
31	C	509	CLA	CMB-C2B-C1B	-4.75	121.16	128.46
44	2	304	DD6	O1-C20-C19	4.75	116.95	113.38
31	c	509	CLA	CMB-C2B-C1B	-4.75	121.17	128.46
43	5	302	ET4	C30-C18-C17	-4.74	116.28	122.92
31	8	308	CLA	C4A-NA-C1A	4.72	108.83	106.71
42	5	317	A86	C3-C2-C1	-4.72	120.58	127.31
44	7	304	DD6	O1-C20-C19	4.71	116.92	113.38
43	5	302	ET4	C27-C09-C10	-4.68	116.37	122.92
42	0	317	A86	C3-C2-C1	-4.67	120.64	127.31
44	3	303	DD6	C21-C20-C19	4.67	119.53	114.28
31	3	308	CLA	C4A-NA-C1A	4.67	108.80	106.71
42	5	317	A86	C4-C5-C6	-4.66	120.66	127.31
43	0	302	ET4	C27-C09-C10	-4.66	116.39	122.92
42	0	317	A86	C4-C5-C6	-4.65	120.67	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	p	611	DD6	C3-C2-C1	-4.64	120.69	127.31
44	P	611	DD6	C3-C2-C1	-4.62	120.72	127.31
44	8	303	DD6	C21-C20-C19	4.62	119.47	114.28
42	9	202	A86	C28-C27-C26	-4.59	116.50	122.92
42	4	202	A86	C28-C27-C26	-4.57	116.53	122.92
42	9	203	A86	C4-C5-C6	-4.57	120.79	127.31
42	4	203	A86	C4-C5-C6	-4.55	120.81	127.31
42	4	203	A86	C35-C34-C33	-4.55	101.94	109.88
42	0	301	A86	C4-C5-C6	-4.54	120.83	127.31
42	4	203	A86	C3-C2-C1	-4.54	120.83	127.31
42	5	303	A86	C36-C31-C32	4.54	124.20	119.70
42	9	203	A86	C35-C34-C33	-4.53	101.97	109.88
43	0	302	ET4	C19-C18-C17	4.52	125.87	118.94
42	5	301	A86	C4-C5-C6	-4.52	120.86	127.31
31	9	210	CLA	CMB-C2B-C1B	-4.51	121.53	128.46
31	4	210	CLA	CMB-C2B-C1B	-4.51	121.53	128.46
36	D	412	LHG	O3-P-O6	-4.51	94.72	106.73
36	d	412	LHG	O3-P-O6	-4.51	94.72	106.73
42	9	203	A86	C3-C2-C1	-4.51	120.88	127.31
31	b	503	CLA	CMB-C2B-C1B	-4.51	121.54	128.46
43	5	302	ET4	C19-C18-C17	4.51	125.85	118.94
42	9	202	A86	C41-C32-C31	4.50	114.50	110.47
42	0	303	A86	C36-C31-C32	4.49	124.15	119.70
31	B	502	CLA	CMB-C2B-C1B	-4.48	121.58	128.46
42	p	610	A86	C35-C34-C33	-4.47	102.08	109.88
42	P	610	A86	C35-C34-C33	-4.45	102.10	109.88
42	4	201	A86	C17-C16-C15	4.44	113.69	109.16
31	7	309	CLA	CMB-C2B-C1B	-4.43	121.65	128.46
31	2	309	CLA	CMB-C2B-C1B	-4.43	121.65	128.46
42	7	302	A86	C4-C5-C6	-4.43	120.99	127.31
42	0	301	A86	C20-C19-C18	4.43	121.51	112.75
31	b	514	CLA	CMB-C2B-C1B	-4.43	121.66	128.46
42	5	301	A86	C20-C19-C18	4.42	121.50	112.75
42	2	302	A86	C4-C5-C6	-4.42	121.00	127.31
31	B	511	CLA	CMB-C2B-C1B	-4.41	121.68	128.46
31	b	512	CLA	CMB-C2B-C1B	-4.41	121.68	128.46
31	B	513	CLA	CMB-C2B-C1B	-4.41	121.69	128.46
31	A	403	CLA	CMB-C2B-C1B	-4.40	121.69	128.46
42	9	201	A86	C17-C16-C15	4.40	113.66	109.16
31	a	403	CLA	CMB-C2B-C1B	-4.40	121.70	128.46
42	4	202	A86	C41-C32-C31	4.39	114.40	110.47
31	C	514	CLA	CMB-C2B-C1B	-4.38	121.72	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	c	514	CLA	CMB-C2B-C1B	-4.38	121.73	128.46
42	0	303	A86	C4-C5-C6	-4.38	121.06	127.31
42	p	610	A86	C36-C31-C32	-4.37	115.36	119.70
44	p	611	DD6	C20-C19-C18	-4.36	104.13	112.75
42	P	610	A86	C36-C31-C32	-4.35	115.38	119.70
44	P	611	DD6	C20-C19-C18	-4.33	104.18	112.75
31	p	602	CLA	CMB-C2B-C1B	-4.33	121.81	128.46
31	P	602	CLA	CMB-C2B-C1B	-4.33	121.81	128.46
39	c	519	DGD	O3G-C3G-C2G	-4.31	100.49	110.90
42	5	303	A86	C4-C5-C6	-4.31	121.16	127.31
39	C	519	DGD	O3G-C3G-C2G	-4.31	100.51	110.90
31	c	506	CLA	CMB-C2B-C1B	-4.30	121.85	128.46
31	C	506	CLA	CMB-C2B-C1B	-4.29	121.86	128.46
31	C	507	CLA	CMB-C2B-C1B	-4.29	121.88	128.46
31	c	507	CLA	CMB-C2B-C1B	-4.29	121.88	128.46
31	7	311	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
42	8	302	A86	C4-C5-C6	-4.27	121.22	127.31
31	0	305	CLA	CMB-C2B-C3B	4.26	132.65	124.68
36	A	412	LHG	O4-P-O5	4.25	133.24	112.24
36	A	413	LHG	O4-P-O5	4.24	133.23	112.24
36	a	412	LHG	O4-P-O5	4.24	133.23	112.24
36	a	411	LHG	O4-P-O5	4.24	133.22	112.24
42	3	302	A86	C4-C5-C6	-4.24	121.26	127.31
31	2	311	CLA	CMB-C2B-C1B	-4.23	121.96	128.46
31	5	305	CLA	CMB-C2B-C3B	4.23	132.59	124.68
39	c	520	DGD	O2G-C1B-C2B	4.22	120.60	111.50
31	c	512	CLA	CMB-C2B-C1B	-4.22	121.98	128.46
42	3	301	A86	O1-C15-C14	-4.21	104.75	113.21
42	8	301	A86	O1-C15-C14	-4.21	104.75	113.21
36	b	522	LHG	O4-P-O5	4.21	133.04	112.24
36	B	521	LHG	O4-P-O5	4.21	133.03	112.24
31	P	603	CLA	CMB-C2B-C3B	4.20	132.54	124.68
39	C	520	DGD	O2G-C1B-C2B	4.20	120.56	111.50
31	2	314	CLA	CMB-C2B-C1B	-4.20	122.01	128.46
31	C	512	CLA	CMB-C2B-C1B	-4.19	122.02	128.46
31	p	603	CLA	CMB-C2B-C3B	4.19	132.52	124.68
31	C	510	CLA	CMB-C2B-C1B	-4.19	122.03	128.46
36	D	411	LHG	O4-P-O5	4.19	132.94	112.24
34	B	523	SQD	O9-S-C6	4.19	111.91	106.94
36	d	411	LHG	O4-P-O5	4.19	132.93	112.24
42	4	202	A86	C25-C26-C27	-4.19	121.34	127.31
31	7	314	CLA	CMB-C2B-C1B	-4.18	122.04	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	c	510	CLA	CMB-C2B-C1B	-4.18	122.05	128.46
42	5	303	A86	O4-C38-C39	4.17	118.77	111.09
43	0	302	ET4	C16-C15-C14	4.17	132.01	123.47
42	9	202	A86	C25-C26-C27	-4.17	121.36	127.31
31	6	212	CLA	CMB-C2B-C1B	-4.17	122.06	128.46
31	A	407	CLA	CMB-C2B-C1B	-4.16	122.07	128.46
44	6	204	DD6	C21-C20-C19	4.16	118.96	114.28
34	b	501	SQD	O9-S-C6	4.16	111.88	106.94
42	0	303	A86	O4-C38-C39	4.16	118.74	111.09
31	1	212	CLA	CMB-C2B-C1B	-4.16	122.08	128.46
42	9	203	A86	C23-C16-C17	-4.15	101.77	108.98
43	5	302	ET4	C16-C15-C14	4.15	131.98	123.47
31	2	312	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
31	C	513	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
31	c	513	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
31	7	312	CLA	CMB-C2B-C1B	-4.14	122.10	128.46
42	p	610	A86	C34-O4-C38	-4.14	110.18	117.90
42	4	203	A86	C23-C16-C17	-4.14	101.80	108.98
31	a	407	CLA	CMB-C2B-C1B	-4.13	122.11	128.46
31	P	604	CLA	CMB-C2B-C3B	4.13	132.40	124.68
44	1	204	DD6	C21-C20-C19	4.13	118.92	114.28
31	p	604	CLA	CMB-C2B-C3B	4.13	132.40	124.68
36	H	103	LHG	O4-P-O5	4.13	132.64	112.24
42	9	203	A86	C20-C19-C18	4.12	120.90	112.75
42	P	610	A86	C34-O4-C38	-4.12	110.22	117.90
42	P	610	A86	O4-C38-O5	-4.12	114.79	122.96
44	2	303	DD6	C21-C20-C19	4.11	118.91	114.28
42	4	203	A86	C20-C19-C18	4.11	120.87	112.75
36	h	103	LHG	O4-P-O5	4.10	132.53	112.24
31	B	512	CLA	CMB-C2B-C1B	-4.10	122.16	128.46
31	b	513	CLA	CMB-C2B-C1B	-4.10	122.16	128.46
42	p	610	A86	O4-C38-O5	-4.09	114.83	122.96
31	9	213	CLA	CMB-C2B-C1B	-4.09	122.18	128.46
44	6	203	DD6	C21-C20-C19	4.07	118.86	114.28
31	c	504	CLA	CMB-C2B-C1B	-4.07	122.21	128.46
44	7	303	DD6	C21-C20-C19	4.07	118.86	114.28
31	7	316	CLA	CMB-C2B-C1B	-4.07	122.21	128.46
44	1	203	DD6	C21-C20-C19	4.06	118.84	114.28
42	0	301	A86	C12-C11-C13	4.05	122.83	116.02
42	9	201	A86	O1-C20-C21	-4.05	110.20	115.06
31	C	504	CLA	CMB-C2B-C1B	-4.05	122.24	128.46
37	C	521	LMG	O7-C10-C11	4.04	120.22	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	5	301	A86	C12-C11-C13	4.04	122.81	116.02
39	C	518	DGD	O3G-C3G-C2G	-4.04	101.15	110.90
31	P	602	CLA	CMA-C3A-C2A	-4.04	106.67	116.10
37	c	521	LMG	O7-C10-C11	4.04	120.20	111.50
31	p	602	CLA	CMA-C3A-C2A	-4.04	106.68	116.10
31	2	316	CLA	CMB-C2B-C1B	-4.04	122.26	128.46
31	4	213	CLA	CMB-C2B-C1B	-4.04	122.26	128.46
39	c	518	DGD	O3G-C3G-C2G	-4.03	101.17	110.90
31	D	401	CLA	CMB-C2B-C1B	-4.03	122.27	128.46
34	B	523	SQD	O5-C5-C4	4.03	117.01	109.69
34	b	501	SQD	O5-C5-C4	4.03	117.00	109.69
42	8	302	A86	C3-C2-C1	-4.01	121.59	127.31
42	5	317	A86	O4-C34-C33	4.00	117.56	107.59
42	5	317	A86	O1-C20-C21	-4.00	110.26	115.06
31	d	401	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
31	8	307	CLA	CMB-C2B-C3B	4.00	132.16	124.68
42	4	201	A86	C3-C2-C1	-4.00	121.60	127.31
31	B	506	CLA	CMB-C2B-C1B	-4.00	122.32	128.46
31	3	307	CLA	CMB-C2B-C3B	4.00	132.15	124.68
42	2	301	A86	O1-C20-C21	-3.99	110.27	115.06
31	p	609	CLA	CMB-C2B-C1B	-3.99	122.34	128.46
42	4	201	A86	O1-C20-C21	-3.99	110.28	115.06
31	b	507	CLA	CMB-C2B-C1B	-3.98	122.34	128.46
42	0	317	A86	O4-C34-C33	3.98	117.50	107.59
42	7	301	A86	O1-C20-C21	-3.98	110.29	115.06
31	b	508	CLA	CMB-C2B-C1B	-3.98	122.35	128.46
31	6	214	CLA	CMB-C2B-C1B	-3.98	122.35	128.46
31	1	214	CLA	CMB-C2B-C1B	-3.98	122.35	128.46
42	3	302	A86	C3-C2-C1	-3.97	121.64	127.31
31	B	504	CLA	CMB-C2B-C1B	-3.97	122.37	128.46
42	0	317	A86	O1-C20-C21	-3.96	110.31	115.06
31	B	507	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
31	b	505	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
31	P	609	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
42	5	301	A86	C3-C2-C1	-3.95	121.67	127.31
42	9	201	A86	C3-C2-C1	-3.95	121.67	127.31
42	1	202	A86	C9-C10-C11	-3.94	115.01	126.61
31	5	308	CLA	CMB-C2B-C1B	-3.94	122.40	128.46
31	1	208	CLA	CMB-C2B-C1B	-3.94	122.41	128.46
31	9	211	CLA	CAB-C3B-C4B	-3.94	122.41	128.46
44	7	304	DD6	C21-C20-C15	-3.94	115.66	122.26
42	0	301	A86	C3-C2-C1	-3.93	121.69	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	4	201	A86	C40-C32-C31	-3.93	106.95	110.47
44	2	304	DD6	C21-C20-C15	-3.93	115.67	122.26
42	6	202	A86	C9-C10-C11	-3.93	115.05	126.61
31	0	308	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
31	6	208	CLA	CMB-C2B-C1B	-3.93	122.43	128.46
31	4	211	CLA	CAB-C3B-C4B	-3.91	122.45	128.46
31	C	511	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
31	A	404	CLA	CMB-C2B-C1B	-3.90	122.46	128.46
31	c	511	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
42	9	201	A86	C40-C32-C31	-3.90	106.98	110.47
31	2	310	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
31	B	505	CLA	CMB-C2B-C1B	-3.89	122.49	128.46
31	b	506	CLA	CMB-C2B-C1B	-3.89	122.49	128.46
31	0	311	CLA	CMB-C2B-C1B	-3.89	122.49	128.46
31	7	310	CLA	CMB-C2B-C1B	-3.88	122.49	128.46
31	P	608	CLA	CAB-C3B-C4B	-3.88	122.50	128.46
42	0	317	A86	O4-C38-C39	3.88	118.23	111.09
42	2	301	A86	C41-C32-C31	-3.88	107.00	110.47
42	7	301	A86	C41-C32-C31	-3.87	107.01	110.47
31	a	404	CLA	CMB-C2B-C1B	-3.87	122.51	128.46
31	c	508	CLA	CMB-C2B-C1B	-3.87	122.51	128.46
42	4	203	A86	O1-C15-C20	-3.87	55.62	59.40
31	4	209	CLA	CAA-C2A-C3A	-3.86	107.10	116.10
31	c	502	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
42	9	203	A86	O1-C15-C20	-3.85	55.64	59.40
31	C	508	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
42	5	317	A86	O4-C38-C39	3.85	118.17	111.09
31	b	503	CLA	CMB-C2B-C3B	3.85	131.87	124.68
42	9	202	A86	C20-C19-C18	3.84	120.35	112.75
42	9	203	A86	C17-C16-C15	3.84	113.08	109.16
31	C	502	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
31	9	209	CLA	CAA-C2A-C3A	-3.84	107.14	116.10
44	3	303	DD6	C14-C13-C11	-3.84	119.58	125.53
42	4	203	A86	C17-C16-C15	3.83	113.07	109.16
31	B	503	CLA	CMB-C2B-C1B	-3.83	122.57	128.46
31	B	502	CLA	CMB-C2B-C3B	3.83	131.84	124.68
31	p	608	CLA	CAB-C3B-C4B	-3.83	122.58	128.46
31	5	311	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
31	7	308	CLA	CAB-C3B-C4B	-3.83	122.58	128.46
42	6	202	A86	C40-C32-C31	-3.82	107.05	110.47
31	B	508	CLA	CMB-C2B-C1B	-3.82	122.59	128.46
31	9	208	CLA	CAA-C2A-C1A	3.82	121.24	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	4	202	A86	C20-C19-C18	3.82	120.30	112.75
31	b	504	CLA	CMB-C2B-C1B	-3.81	122.60	128.46
31	b	509	CLA	CMB-C2B-C1B	-3.81	122.60	128.46
44	8	303	DD6	C14-C13-C11	-3.81	119.61	125.53
42	1	202	A86	C40-C32-C31	-3.81	107.06	110.47
31	4	208	CLA	CAA-C2A-C1A	3.81	121.22	111.81
31	C	509	CLA	CMB-C2B-C3B	3.81	131.81	124.68
31	c	509	CLA	CMB-C2B-C3B	3.81	131.80	124.68
42	8	301	A86	C34-O4-C38	-3.81	110.81	117.90
31	4	210	CLA	CMB-C2B-C3B	3.80	131.79	124.68
34	B	522	SQD	C1-O5-C5	3.80	121.15	113.69
31	p	601	CLA	CAA-C2A-C3A	-3.80	107.23	116.10
31	5	314	CLA	CMB-C2B-C1B	-3.80	122.63	128.46
42	3	301	A86	C34-O4-C38	-3.79	110.83	117.90
34	A	411	SQD	C1-O5-C5	3.79	121.14	113.69
39	H	102	DGD	O3G-C3G-C2G	-3.79	101.75	110.90
31	2	308	CLA	CAB-C3B-C4B	-3.79	122.64	128.46
31	0	310	CLA	CMB-C2B-C1B	-3.79	122.64	128.46
42	3	301	A86	C25-C26-C27	-3.79	121.91	127.31
39	h	102	DGD	O3G-C3G-C2G	-3.79	101.77	110.90
31	p	605	CLA	CAA-C2A-C3A	-3.79	107.27	116.10
31	9	210	CLA	CMB-C2B-C3B	3.78	131.76	124.68
42	1	202	A86	C35-C34-C33	-3.78	103.28	109.88
31	0	314	CLA	CMB-C2B-C1B	-3.78	122.65	128.46
34	A	409	SQD	O9-S-C6	3.78	111.43	106.94
31	P	601	CLA	CAA-C2A-C3A	-3.78	107.28	116.10
31	P	605	CLA	CAA-C2A-C3A	-3.78	107.28	116.10
42	7	301	A86	O4-C34-C33	3.78	117.00	107.59
42	2	301	A86	O4-C34-C33	3.78	117.00	107.59
31	5	310	CLA	CMB-C2B-C1B	-3.77	122.66	128.46
42	6	202	A86	C35-C34-C33	-3.77	103.29	109.88
31	6	211	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
31	1	211	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
31	C	505	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
31	6	215	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
42	8	301	A86	C25-C26-C27	-3.77	121.94	127.31
31	4	209	CLA	CMB-C2B-C1B	-3.76	122.68	128.46
34	a	409	SQD	O9-S-C6	3.76	111.41	106.94
44	P	611	DD6	C9-C10-C11	-3.76	121.94	127.31
31	c	505	CLA	CMB-C2B-C1B	-3.76	122.69	128.46
34	0	316	SQD	O9-S-C6	3.76	111.40	106.94
31	d	404	CLA	CMB-C2B-C1B	-3.75	122.69	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	9	201	A86	O4-C38-C39	3.75	117.99	111.09
31	1	215	CLA	CMB-C2B-C1B	-3.75	122.70	128.46
42	4	201	A86	O4-C38-C39	3.75	117.99	111.09
34	a	409	SQD	O9-S-O7	-3.74	100.99	113.95
31	D	404	CLA	CMB-C2B-C1B	-3.74	122.71	128.46
31	5	306	CLA	CMB-C2B-C1B	-3.74	122.71	128.46
31	a	403	CLA	CMB-C2B-C3B	3.74	131.68	124.68
31	b	510	CLA	CMB-C2B-C1B	-3.74	122.71	128.46
34	B	523	SQD	O7-S-C6	3.74	111.39	106.94
42	9	202	A86	O1-C15-C20	-3.74	55.74	59.40
34	5	316	SQD	O9-S-C6	3.74	111.38	106.94
31	A	403	CLA	CMB-C2B-C3B	3.74	131.68	124.68
42	p	610	A86	C9-C8-C6	-3.74	115.91	126.42
34	b	501	SQD	O7-S-C6	3.74	111.38	106.94
31	C	514	CLA	CMB-C2B-C3B	3.74	131.67	124.68
42	4	203	A86	C23-C16-C22	-3.73	101.86	107.37
34	A	409	SQD	O9-S-O7	-3.73	101.04	113.95
42	P	610	A86	C9-C8-C6	-3.73	115.94	126.42
31	c	514	CLA	CMB-C2B-C3B	3.73	131.65	124.68
31	B	509	CLA	CMB-C2B-C1B	-3.73	122.74	128.46
42	P	610	A86	C28-C27-C26	-3.73	117.70	122.92
42	9	203	A86	C23-C16-C22	-3.73	101.88	107.37
44	p	611	DD6	C9-C10-C11	-3.72	121.99	127.31
31	0	306	CLA	CMB-C2B-C1B	-3.72	122.74	128.46
34	B	522	SQD	O7-S-C6	3.72	111.36	106.94
31	3	312	CLA	CMB-C2B-C1B	-3.72	122.75	128.46
42	4	202	A86	O1-C15-C20	-3.72	55.76	59.40
31	4	212	CLA	CAB-C3B-C4B	-3.72	122.75	128.46
34	A	411	SQD	O7-S-C6	3.72	111.36	106.94
31	8	312	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
31	9	209	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
31	3	306	CLA	CAB-C3B-C4B	-3.71	122.76	128.46
31	b	514	CLA	CMB-C2B-C3B	3.71	131.61	124.68
44	8	303	DD6	C37-C36-C35	3.70	121.22	114.36
44	3	303	DD6	C37-C36-C35	3.70	121.22	114.36
42	p	610	A86	C28-C27-C26	-3.70	117.74	122.92
31	9	212	CLA	CAB-C3B-C4B	-3.70	122.78	128.46
31	8	306	CLA	CAB-C3B-C4B	-3.69	122.79	128.46
42	4	202	A86	C23-C16-C22	-3.69	101.93	107.37
31	B	513	CLA	CMB-C2B-C3B	3.68	131.57	124.68
31	9	212	CLA	CMB-C2B-C1B	-3.68	122.81	128.46
34	5	316	SQD	O9-S-O7	-3.68	101.21	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	4	203	A86	O4-C38-O5	-3.68	115.65	122.96
34	0	316	SQD	O9-S-O7	-3.68	101.22	113.95
31	3	306	CLA	CMB-C2B-C1B	-3.68	122.81	128.46
31	6	201	CLA	CAB-C3B-C4B	-3.68	122.81	128.46
31	1	201	CLA	CAB-C3B-C4B	-3.67	122.82	128.46
31	4	212	CLA	CMB-C2B-C1B	-3.67	122.83	128.46
31	5	312	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
31	0	312	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
31	8	306	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
42	9	202	A86	C23-C16-C22	-3.66	101.97	107.37
42	2	301	A86	O4-C38-C39	3.66	117.82	111.09
31	P	607	CLA	CAB-C3B-C4B	-3.66	122.84	128.46
42	7	301	A86	O4-C38-C39	3.66	117.82	111.09
34	A	411	SQD	O9-S-O7	-3.66	101.29	113.95
34	B	522	SQD	O9-S-O7	-3.66	101.30	113.95
42	0	317	A86	C41-C32-C31	-3.65	107.20	110.47
31	C	510	CLA	CMB-C2B-C3B	3.65	131.50	124.68
31	c	506	CLA	CMB-C2B-C3B	3.65	131.50	124.68
31	7	306	CLA	CMB-C2B-C1B	-3.65	122.86	128.46
42	9	203	A86	O4-C38-O5	-3.64	115.72	122.96
44	2	304	DD6	C37-C36-C31	-3.64	119.40	124.35
31	p	607	CLA	CAB-C3B-C4B	-3.64	122.86	128.46
31	p	602	CLA	CMB-C2B-C3B	3.64	131.49	124.68
31	W	202	CLA	CMB-C2B-C1B	-3.64	122.87	128.46
31	C	506	CLA	CMB-C2B-C3B	3.64	131.49	124.68
31	c	510	CLA	CMB-C2B-C3B	3.64	131.49	124.68
31	P	602	CLA	CMB-C2B-C3B	3.64	131.48	124.68
31	w	202	CLA	CMB-C2B-C1B	-3.64	122.88	128.46
31	P	606	CLA	CMB-C2B-C1B	-3.63	122.88	128.46
42	5	317	A86	C41-C32-C31	-3.63	107.22	110.47
31	7	309	CLA	CMB-C2B-C3B	3.63	131.47	124.68
31	2	309	CLA	CMB-C2B-C3B	3.63	131.47	124.68
31	2	306	CLA	CMB-C2B-C1B	-3.62	122.89	128.46
42	9	201	A86	C25-C26-C27	-3.62	122.14	127.31
31	6	207	CLA	CAB-C3B-C4B	-3.62	122.90	128.46
31	9	207	CLA	CAA-C2A-C3A	-3.62	107.65	116.10
31	p	603	CLA	CAA-C2A-C3A	-3.62	107.66	116.10
43	0	302	ET4	O40-C36-C35	3.61	116.98	109.80
31	4	207	CLA	CAA-C2A-C3A	-3.61	107.68	116.10
43	5	302	ET4	O40-C36-C35	3.61	116.98	109.80
31	6	206	CLA	CMB-C2B-C1B	-3.61	122.92	128.46
31	p	606	CLA	CMB-C2B-C1B	-3.60	122.93	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	2	307	CLA	CMB-C2B-C1B	-3.60	122.93	128.46
31	1	206	CLA	CMB-C2B-C1B	-3.60	122.93	128.46
42	4	201	A86	C25-C26-C27	-3.60	122.17	127.31
42	1	202	A86	C3-C4-C5	-3.60	116.11	123.47
42	p	610	A86	C25-C26-C27	-3.59	122.18	127.31
31	8	310	CLA	CMB-C2B-C1B	-3.59	122.94	128.46
31	3	310	CLA	CMB-C2B-C1B	-3.59	122.95	128.46
31	1	207	CLA	CAB-C3B-C4B	-3.59	122.95	128.46
31	D	403	CLA	CAB-C3B-C4B	-3.59	122.95	128.46
31	d	403	CLA	CAB-C3B-C4B	-3.59	122.95	128.46
31	P	603	CLA	CAA-C2A-C3A	-3.59	107.73	116.10
31	6	209	CLA	CAB-C3B-C4B	-3.58	122.95	128.46
31	7	307	CLA	CMB-C2B-C1B	-3.58	122.95	128.46
31	3	313	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
44	7	304	DD6	C37-C36-C31	-3.58	119.48	124.35
42	3	302	A86	C21-C20-C19	3.58	118.31	114.28
31	C	503	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
31	D	403	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
31	4	213	CLA	CAB-C3B-C4B	-3.58	122.97	128.46
42	6	202	A86	C3-C4-C5	-3.58	116.15	123.47
31	9	211	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
31	4	211	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
31	5	313	CLA	CMB-C2B-C1B	-3.57	122.97	128.46
31	1	209	CLA	CAB-C3B-C4B	-3.57	122.98	128.46
31	8	313	CLA	CMB-C2B-C1B	-3.57	122.98	128.46
31	A	407	CLA	CMB-C2B-C3B	3.57	131.35	124.68
31	7	311	CLA	CMB-C2B-C3B	3.56	131.35	124.68
31	c	503	CLA	CMB-C2B-C1B	-3.56	122.99	128.46
31	d	403	CLA	CMB-C2B-C1B	-3.56	122.99	128.46
31	0	313	CLA	CMB-C2B-C1B	-3.56	122.99	128.46
31	9	213	CLA	CAB-C3B-C4B	-3.56	123.00	128.46
34	a	409	SQD	O7-S-C6	3.56	111.17	106.94
31	a	407	CLA	CMB-C2B-C3B	3.55	131.32	124.68
34	A	409	SQD	O7-S-C6	3.55	111.16	106.94
42	P	610	A86	C25-C26-C27	-3.55	122.24	127.31
31	B	512	CLA	CMB-C2B-C3B	3.54	131.31	124.68
31	b	513	CLA	CMB-C2B-C3B	3.54	131.31	124.68
31	b	515	CLA	CMB-C2B-C1B	-3.54	123.02	128.46
31	1	201	CLA	O2D-CGD-O1D	-3.54	116.92	123.84
34	5	316	SQD	O7-S-C6	3.54	111.15	106.94
31	2	311	CLA	CMB-C2B-C3B	3.54	131.29	124.68
42	3	301	A86	O1-C15-C20	-3.54	55.94	59.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	b	501	SQD	O9-S-O7	-3.53	101.72	113.95
31	P	607	CLA	CMB-C2B-C1B	-3.53	123.03	128.46
31	4	206	CLA	CMB-C2B-C1B	-3.53	123.03	128.46
44	7	304	DD6	C21-C20-C19	3.53	118.25	114.28
34	B	523	SQD	O9-S-O7	-3.53	101.73	113.95
44	1	203	DD6	C37-C36-C31	-3.53	119.55	124.35
31	8	304	CLA	CAB-C3B-C4B	-3.53	123.04	128.46
31	4	210	CLA	CAA-C2A-C3A	-3.53	107.87	116.10
42	8	301	A86	O1-C15-C20	-3.53	55.95	59.40
42	P	610	A86	C3-C2-C1	-3.52	122.28	127.31
42	8	302	A86	C21-C20-C19	3.52	118.24	114.28
31	B	514	CLA	CMB-C2B-C1B	-3.52	123.05	128.46
31	p	607	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
31	6	201	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
31	2	315	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
31	7	315	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
31	7	312	CLA	CMB-C2B-C3B	3.52	131.26	124.68
31	c	512	CLA	CMB-C2B-C3B	3.52	131.25	124.68
31	2	307	CLA	O2D-CGD-O1D	-3.51	116.97	123.84
31	7	307	CLA	O2D-CGD-O1D	-3.51	116.97	123.84
44	7	303	DD6	C37-C36-C31	-3.51	119.58	124.35
34	0	316	SQD	O7-S-C6	3.51	111.11	106.94
31	c	513	CLA	CMB-C2B-C3B	3.51	131.24	124.68
31	B	510	CLA	CMB-C2B-C1B	-3.51	123.07	128.46
31	3	304	CLA	CAB-C3B-C4B	-3.51	123.07	128.46
42	7	302	A86	C3-C4-C5	-3.51	116.29	123.47
31	6	201	CLA	O2D-CGD-O1D	-3.50	116.99	123.84
31	9	210	CLA	CAA-C2A-C3A	-3.50	107.92	116.10
44	2	303	DD6	C37-C36-C31	-3.50	119.59	124.35
31	b	511	CLA	CMB-C2B-C1B	-3.50	123.08	128.46
42	8	302	A86	C28-C27-C26	-3.50	118.02	122.92
31	5	307	CLA	CMB-C2B-C1B	-3.50	123.08	128.46
31	9	206	CLA	CMB-C2B-C1B	-3.50	123.08	128.46
31	C	513	CLA	CMB-C2B-C3B	3.50	131.22	124.68
42	p	610	A86	C3-C2-C1	-3.50	122.32	127.31
31	C	512	CLA	CMB-C2B-C3B	3.50	131.22	124.68
44	6	203	DD6	C37-C36-C31	-3.50	119.60	124.35
44	2	304	DD6	C21-C20-C19	3.50	118.21	114.28
31	6	205	CLA	CMB-C2B-C1B	-3.49	123.09	128.46
31	1	207	CLA	CMB-C2B-C1B	-3.49	123.09	128.46
36	D	411	LHG	O8-C23-C24	3.49	120.53	111.38
31	6	212	CLA	CMB-C2B-C3B	3.49	131.21	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	9	202	A86	O1-C20-C21	-3.49	110.88	115.06
31	1	212	CLA	CMB-C2B-C3B	3.49	131.20	124.68
31	2	312	CLA	CMB-C2B-C3B	3.49	131.20	124.68
31	0	307	CLA	CMB-C2B-C1B	-3.48	123.11	128.46
36	d	411	LHG	O8-C23-C24	3.48	120.51	111.38
31	4	205	CLA	CAB-C3B-C4B	-3.48	123.11	128.46
35	D	406	PL9	C7-C3-C2	-3.48	118.72	123.30
34	A	409	SQD	O47-C7-C8	3.48	119.00	111.50
35	d	406	PL9	C7-C3-C2	-3.48	118.73	123.30
42	2	302	A86	C3-C4-C5	-3.48	116.35	123.47
39	C	519	DGD	O6D-C1D-O3G	-3.48	101.74	109.97
39	c	519	DGD	O6D-C1D-O3G	-3.48	101.74	109.97
31	9	205	CLA	CAB-C3B-C4B	-3.47	123.12	128.46
31	1	201	CLA	CMB-C2B-C1B	-3.47	123.12	128.46
31	6	207	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
42	3	302	A86	C28-C27-C26	-3.47	118.06	122.92
31	c	507	CLA	CMB-C2B-C3B	3.47	131.17	124.68
31	a	404	CLA	O2D-CGD-O1D	-3.47	117.05	123.84
31	1	205	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
34	a	409	SQD	O47-C7-C8	3.47	118.98	111.50
31	C	507	CLA	CMB-C2B-C3B	3.46	131.16	124.68
31	B	501	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
31	8	314	CLA	CAB-C3B-C4B	-3.46	123.15	128.46
31	8	314	CLA	CAA-C2A-C3A	-3.45	108.04	116.10
31	1	213	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
42	4	202	A86	O1-C20-C21	-3.45	110.92	115.06
44	6	203	DD6	C15-C14-C13	-3.45	118.70	125.99
42	5	303	A86	C34-O4-C38	-3.45	111.47	117.90
31	3	314	CLA	CAB-C3B-C4B	-3.45	123.17	128.46
31	3	314	CLA	CAA-C2A-C3A	-3.45	108.06	116.10
31	8	309	CLA	CAA-C2A-C3A	-3.45	108.06	116.10
31	0	304	CLA	CMB-C2B-C1B	-3.44	123.17	128.46
42	3	301	A86	O4-C38-O5	-3.44	116.13	122.96
31	A	404	CLA	O2D-CGD-O1D	-3.44	117.11	123.84
42	8	301	A86	O4-C38-O5	-3.44	116.13	122.96
31	b	502	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
42	9	202	A86	C3-C4-C5	-3.44	116.43	123.47
31	3	310	CLA	CAA-C2A-C3A	-3.44	108.08	116.10
31	6	213	CLA	CMB-C2B-C1B	-3.43	123.19	128.46
44	1	203	DD6	C15-C14-C13	-3.43	118.75	125.99
31	z	101	CLA	CMB-C2B-C1B	-3.43	123.20	128.46
31	5	304	CLA	CMB-C2B-C1B	-3.43	123.20	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	4	202	A86	C3-C4-C5	-3.43	116.45	123.47
31	7	316	CLA	CMB-C2B-C3B	3.43	131.09	124.68
31	P	601	CLA	CMB-C2B-C1B	-3.42	123.20	128.46
31	8	310	CLA	CAA-C2A-C3A	-3.42	108.11	116.10
34	5	316	SQD	O47-C7-C8	3.42	118.88	111.50
31	P	608	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
42	0	303	A86	C34-O4-C38	-3.42	111.52	117.90
31	b	512	CLA	CMB-C2B-C3B	3.42	131.08	124.68
31	3	309	CLA	CAA-C2A-C3A	-3.42	108.12	116.10
31	Z	101	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
31	B	511	CLA	CMB-C2B-C3B	3.42	131.07	124.68
31	p	608	CLA	CMB-C2B-C1B	-3.42	123.22	128.46
31	9	208	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
34	0	316	SQD	O47-C7-C8	3.41	118.86	111.50
31	7	308	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
31	4	208	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
31	1	209	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
31	2	316	CLA	CMB-C2B-C3B	3.41	131.05	124.68
44	7	303	DD6	C15-C14-C13	-3.41	118.79	125.99
31	p	601	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
31	2	313	CLA	CMB-C2B-C1B	-3.41	123.23	128.46
44	2	303	DD6	C15-C14-C13	-3.40	118.79	125.99
42	7	302	A86	O1-C15-C20	-3.40	56.07	59.40
42	2	302	A86	O1-C15-C20	-3.40	56.07	59.40
31	7	314	CLA	CMB-C2B-C3B	3.40	131.04	124.68
31	2	314	CLA	CMB-C2B-C3B	3.40	131.04	124.68
31	c	504	CLA	CMB-C2B-C3B	3.40	131.04	124.68
31	6	209	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
31	3	304	CLA	CAA-C2A-C3A	-3.40	108.18	116.10
31	C	504	CLA	CMB-C2B-C3B	3.39	131.02	124.68
31	7	313	CLA	CMB-C2B-C1B	-3.39	123.26	128.46
31	8	304	CLA	CAA-C2A-C3A	-3.39	108.20	116.10
31	2	308	CLA	CMB-C2B-C1B	-3.39	123.26	128.46
31	4	207	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
31	9	207	CLA	CMB-C2B-C1B	-3.38	123.28	128.46
34	B	522	SQD	O9-S-C6	3.38	110.95	106.94
31	7	305	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
31	2	305	CLA	CMB-C2B-C1B	-3.37	123.28	128.46
42	p	610	A86	C20-C19-C18	3.37	119.41	112.75
31	b	508	CLA	CMB-C2B-C3B	3.37	130.98	124.68
31	4	204	CLA	CMB-C2B-C1B	-3.37	123.29	128.46
35	A	410	PL9	C7-C3-C2	-3.36	118.88	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	0	301	A86	C28-C27-C26	-3.36	118.21	122.92
34	A	411	SQD	O9-S-C6	3.36	110.94	106.94
31	P	609	CLA	CMB-C2B-C3B	3.36	130.97	124.68
31	b	507	CLA	CMB-C2B-C3B	3.36	130.97	124.68
31	B	516	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
31	B	506	CLA	CMB-C2B-C3B	3.36	130.96	124.68
31	b	517	CLA	CMB-C2B-C1B	-3.35	123.32	128.46
35	a	410	PL9	C7-C3-C2	-3.35	118.90	123.30
31	p	609	CLA	CMB-C2B-C3B	3.35	130.94	124.68
42	4	201	A86	O1-C15-C20	-3.34	56.13	59.40
31	B	507	CLA	CMB-C2B-C3B	3.34	130.93	124.68
31	6	208	CLA	CMB-C2B-C3B	3.34	130.93	124.68
34	b	501	SQD	C3-C4-C5	3.34	116.19	110.24
42	5	301	A86	C28-C27-C26	-3.34	118.25	122.92
43	0	302	ET4	C35-C34-C33	3.34	116.38	109.62
34	B	523	SQD	C3-C4-C5	3.33	116.19	110.24
42	5	303	A86	C17-C16-C15	3.33	112.56	109.16
42	P	610	A86	C20-C19-C18	3.33	119.34	112.75
34	A	411	SQD	O5-C5-C4	3.33	115.75	109.69
31	0	308	CLA	CMB-C2B-C3B	3.33	130.91	124.68
43	5	302	ET4	C35-C34-C33	3.33	116.37	109.62
42	0	303	A86	C17-C16-C15	3.33	112.56	109.16
31	3	305	CLA	CMB-C2B-C1B	-3.33	123.35	128.46
42	6	202	A86	O4-C38-C39	3.32	117.21	111.09
31	c	502	CLA	CMB-C2B-C3B	3.32	130.89	124.68
31	6	216	CLA	CMB-C2B-C1B	-3.32	123.36	128.46
31	1	208	CLA	CMB-C2B-C3B	3.32	130.89	124.68
31	1	216	CLA	CMB-C2B-C1B	-3.32	123.37	128.46
31	9	204	CLA	CMB-C2B-C1B	-3.31	123.37	128.46
31	5	308	CLA	CMB-C2B-C3B	3.31	130.88	124.68
31	C	502	CLA	CMB-C2B-C3B	3.31	130.88	124.68
34	B	522	SQD	O5-C5-C4	3.31	115.71	109.69
31	2	310	CLA	CMB-C2B-C3B	3.31	130.88	124.68
31	0	304	CLA	O2D-CGD-O1D	-3.31	117.36	123.84
34	B	523	SQD	O47-C7-C8	3.31	118.64	111.50
34	b	501	SQD	O47-C7-C8	3.31	118.64	111.50
42	1	202	A86	O4-C38-C39	3.31	117.18	111.09
31	C	511	CLA	CMB-C2B-C3B	3.31	130.87	124.68
42	2	302	A86	C25-C26-C27	-3.31	122.59	127.31
31	0	311	CLA	CMB-C2B-C3B	3.31	130.86	124.68
31	c	508	CLA	CMB-C2B-C3B	3.30	130.86	124.68
31	5	304	CLA	O2D-CGD-O1D	-3.30	117.38	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	d	401	CLA	CMB-C2B-C3B	3.30	130.85	124.68
42	7	302	A86	C25-C26-C27	-3.30	122.60	127.31
31	D	401	CLA	CMB-C2B-C3B	3.30	130.85	124.68
31	6	214	CLA	CMB-C2B-C3B	3.30	130.85	124.68
31	1	214	CLA	CMB-C2B-C3B	3.30	130.85	124.68
31	A	404	CLA	CMB-C2B-C3B	3.30	130.85	124.68
31	B	504	CLA	CMB-C2B-C3B	3.30	130.85	124.68
31	8	305	CLA	CMB-C2B-C1B	-3.30	123.40	128.46
42	9	201	A86	O1-C15-C20	-3.29	56.18	59.40
31	C	508	CLA	CMB-C2B-C3B	3.29	130.84	124.68
31	P	604	CLA	CAA-C2A-C3A	-3.29	108.42	116.10
31	c	511	CLA	CMB-C2B-C3B	3.29	130.83	124.68
31	p	604	CLA	CAA-C2A-C3A	-3.29	108.43	116.10
31	7	310	CLA	CMB-C2B-C3B	3.29	130.83	124.68
31	6	210	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
31	4	212	CLA	CAA-C2A-C3A	-3.28	108.44	116.10
42	5	301	A86	O1-C15-C20	-3.28	56.19	59.40
42	0	301	A86	O1-C15-C20	-3.28	56.19	59.40
31	b	505	CLA	CMB-C2B-C3B	3.28	130.81	124.68
31	5	311	CLA	CMB-C2B-C3B	3.28	130.81	124.68
42	3	301	A86	C9-C10-C11	-3.28	116.97	126.61
42	4	201	A86	C20-C19-C18	3.28	119.23	112.75
31	p	601	CLA	CBD-CHA-C1A	3.28	132.68	127.43
42	0	317	A86	O1-C15-C20	-3.28	56.20	59.40
42	2	301	A86	O1-C15-C20	-3.27	56.20	59.40
31	b	504	CLA	O2D-CGD-O1D	-3.27	117.44	123.84
31	1	210	CLA	O2D-CGD-O1D	-3.27	117.45	123.84
31	a	404	CLA	CMB-C2B-C3B	3.27	130.79	124.68
42	5	317	A86	O1-C15-C20	-3.27	56.21	59.40
31	b	506	CLA	CMB-C2B-C3B	3.27	130.79	124.68
31	B	503	CLA	O2D-CGD-O1D	-3.26	117.45	123.84
42	4	203	A86	C25-C26-C27	-3.26	122.65	127.31
42	8	301	A86	C9-C10-C11	-3.26	117.02	126.61
31	9	212	CLA	CAA-C2A-C3A	-3.26	108.49	116.10
31	B	511	CLA	C1-C2-C3	-3.25	120.42	126.04
31	B	505	CLA	CMB-C2B-C3B	3.25	130.76	124.68
42	9	201	A86	C20-C19-C18	3.25	119.18	112.75
42	4	202	A86	C4-C5-C6	-3.25	122.67	127.31
31	0	309	CLA	CMB-C2B-C1B	-3.25	123.47	128.46
31	3	308	CLA	CMB-C2B-C1B	-3.24	123.48	128.46
31	8	306	CLA	CBD-CHA-C1A	3.24	131.49	128.06
31	P	601	CLA	CBD-CHA-C1A	3.24	132.62	127.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	7	301	A86	O1-C15-C20	-3.24	56.23	59.40
31	5	309	CLA	CMB-C2B-C1B	-3.24	123.49	128.46
42	9	202	A86	C4-C5-C6	-3.24	122.69	127.31
31	3	306	CLA	CBD-CHA-C1A	3.23	131.48	128.06
31	p	602	CLA	O2D-CGD-O1D	-3.23	117.52	123.84
31	4	206	CLA	CBD-CHA-C1A	3.23	131.48	128.06
31	b	512	CLA	C1-C2-C3	-3.23	120.46	126.04
34	B	522	SQD	O47-C7-C8	3.23	118.45	111.50
42	9	203	A86	C25-C26-C27	-3.23	122.70	127.31
34	A	411	SQD	O47-C7-C8	3.23	118.45	111.50
31	P	605	CLA	CMB-C2B-C1B	-3.22	123.51	128.46
31	c	505	CLA	CMB-C2B-C3B	3.22	130.70	124.68
31	4	209	CLA	CMB-C2B-C3B	3.22	130.70	124.68
31	C	505	CLA	CMB-C2B-C3B	3.21	130.69	124.68
42	3	302	A86	O1-C15-C20	-3.21	56.26	59.40
31	8	308	CLA	CMB-C2B-C1B	-3.21	123.53	128.46
31	9	206	CLA	CBD-CHA-C1A	3.21	131.46	128.06
31	2	305	CLA	CAA-C2A-C3A	-3.21	108.61	116.10
31	B	504	CLA	O2D-CGD-O1D	-3.20	117.58	123.84
32	A	406	PHO	CMB-C2B-C3B	3.20	130.66	124.68
31	p	605	CLA	CMB-C2B-C1B	-3.20	123.55	128.46
42	8	302	A86	O1-C15-C20	-3.19	56.28	59.40
31	7	305	CLA	CAA-C2A-C3A	-3.19	108.65	116.10
31	1	211	CLA	CMB-C2B-C3B	3.19	130.65	124.68
32	a	406	PHO	CMB-C2B-C3B	3.19	130.65	124.68
31	4	204	CLA	CAA-C2A-C3A	-3.19	108.65	116.10
31	P	602	CLA	O2D-CGD-O1D	-3.19	117.60	123.84
44	7	303	DD6	C12-C11-C10	-3.19	118.46	122.92
44	6	203	DD6	C12-C11-C10	-3.19	118.46	122.92
42	9	203	A86	C10-C9-C8	-3.19	113.27	123.22
31	b	504	CLA	CMB-C2B-C3B	3.19	130.64	124.68
31	0	314	CLA	CMB-C2B-C3B	3.19	130.64	124.68
31	B	508	CLA	CMB-C2B-C3B	3.19	130.64	124.68
31	5	314	CLA	CMB-C2B-C3B	3.19	130.64	124.68
31	B	503	CLA	CMB-C2B-C3B	3.18	130.64	124.68
42	4	203	A86	C10-C9-C8	-3.18	113.28	123.22
31	b	505	CLA	O2D-CGD-O1D	-3.18	117.62	123.84
31	b	509	CLA	CMB-C2B-C3B	3.18	130.63	124.68
44	6	204	DD6	C4-C3-C2	-3.18	116.96	123.47
31	b	510	CLA	CMB-C2B-C3B	3.18	130.62	124.68
44	1	204	DD6	C4-C3-C2	-3.18	116.97	123.47
31	6	211	CLA	CMB-C2B-C3B	3.18	130.62	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	P	605	CLA	CBD-CHA-C1A	3.18	132.52	127.43
31	9	204	CLA	CAA-C2A-C3A	-3.18	108.69	116.10
34	a	409	SQD	O8-S-C6	3.18	110.80	105.74
31	w	202	CLA	O2D-CGD-O1D	-3.18	117.63	123.84
31	W	202	CLA	O2D-CGD-O1D	-3.18	117.63	123.84
31	9	209	CLA	CMB-C2B-C3B	3.17	130.61	124.68
44	1	203	DD6	C12-C11-C10	-3.17	118.48	122.92
31	5	310	CLA	CMB-C2B-C3B	3.17	130.61	124.68
31	2	307	CLA	CMB-C2B-C3B	3.17	130.61	124.68
31	8	314	CLA	CMB-C2B-C1B	-3.16	123.60	128.46
31	p	605	CLA	CBD-CHA-C1A	3.16	132.49	127.43
31	P	602	CLA	CAA-C2A-C3A	-3.16	108.72	116.10
34	A	411	SQD	C44-O6-C1	3.16	119.91	113.74
34	A	409	SQD	O8-S-C6	3.16	110.77	105.74
31	8	311	CLA	CMB-C2B-C1B	-3.16	123.61	128.46
31	p	602	CLA	CAA-C2A-C3A	-3.16	108.73	116.10
44	2	303	DD6	C12-C11-C10	-3.15	118.50	122.92
31	0	310	CLA	CMB-C2B-C3B	3.15	130.58	124.68
31	D	404	CLA	CMB-C2B-C3B	3.15	130.57	124.68
31	d	404	CLA	CMB-C2B-C3B	3.15	130.57	124.68
31	B	509	CLA	CMB-C2B-C3B	3.15	130.57	124.68
34	B	522	SQD	C44-O6-C1	3.15	119.89	113.74
31	B	501	CLA	O2D-CGD-O1D	-3.14	117.69	123.84
31	0	306	CLA	CMB-C2B-C3B	3.14	130.56	124.68
31	6	215	CLA	CMB-C2B-C3B	3.14	130.55	124.68
42	3	302	A86	C20-C19-C18	3.14	118.96	112.75
31	a	407	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
31	b	502	CLA	O2D-CGD-O1D	-3.13	117.71	123.84
31	7	307	CLA	CMB-C2B-C3B	3.13	130.54	124.68
31	1	215	CLA	CMB-C2B-C3B	3.13	130.53	124.68
31	5	306	CLA	CMB-C2B-C3B	3.13	130.53	124.68
31	3	314	CLA	CMB-C2B-C1B	-3.13	123.66	128.46
39	C	518	DGD	O6D-C1D-O3G	-3.12	102.58	109.97
31	w	202	CLA	CMB-C2B-C3B	3.12	130.52	124.68
44	8	303	DD6	C33-C34-C35	-3.12	106.03	110.30
31	A	407	CLA	O2D-CGD-O1D	-3.12	117.74	123.84
34	B	522	SQD	C4-C3-C2	3.12	116.27	110.82
39	c	518	DGD	O6D-C1D-O3G	-3.12	102.59	109.97
42	8	302	A86	C20-C19-C18	3.12	118.91	112.75
31	3	311	CLA	CMB-C2B-C1B	-3.11	123.68	128.46
42	8	302	A86	C17-C16-C15	3.11	112.34	109.16
31	B	515	CLA	CMB-C2B-C1B	-3.11	123.69	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	A	411	SQD	C4-C3-C2	3.11	116.25	110.82
31	7	305	CLA	O2D-CGD-O1D	-3.11	117.77	123.84
31	W	202	CLA	CMB-C2B-C3B	3.10	130.49	124.68
39	c	519	DGD	O5D-C6D-C5D	-3.10	103.30	109.05
39	C	519	DGD	O5D-C6D-C5D	-3.10	103.31	109.05
31	b	516	CLA	CMB-C2B-C1B	-3.10	123.70	128.46
42	1	202	A86	C9-C8-C6	-3.09	117.72	126.42
44	P	611	DD6	C37-C36-C31	-3.09	120.15	124.35
31	c	506	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
31	2	305	CLA	O2D-CGD-O1D	-3.08	117.81	123.84
44	3	303	DD6	C33-C34-C35	-3.08	106.09	110.30
31	C	506	CLA	O2D-CGD-O1D	-3.08	117.81	123.84
31	c	509	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
42	6	202	A86	C9-C8-C6	-3.08	117.77	126.42
31	C	504	CLA	C1-C2-C3	-3.08	120.72	126.04
37	y	101	LMG	O6-C1-O1	-3.08	102.69	109.97
31	c	504	CLA	C1-C2-C3	-3.08	120.72	126.04
31	6	206	CLA	CMB-C2B-C3B	3.07	130.43	124.68
42	3	302	A86	C17-C16-C15	3.07	112.30	109.16
42	p	610	A86	O1-C15-C20	-3.07	56.40	59.40
31	7	306	CLA	CMB-C2B-C3B	3.07	130.42	124.68
32	a	405	PHO	CMB-C2B-C3B	3.07	130.42	124.68
31	C	514	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
32	A	405	PHO	CMB-C2B-C3B	3.07	130.42	124.68
42	0	301	A86	O4-C38-O5	-3.07	116.87	122.96
42	5	301	A86	O4-C38-O5	-3.07	116.87	122.96
31	C	509	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
31	c	514	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
37	Y	101	LMG	O6-C1-O1	-3.06	102.72	109.97
31	7	316	CLA	O2D-CGD-O1D	-3.06	117.85	123.84
31	1	210	CLA	CMB-C2B-C1B	-3.06	123.76	128.46
31	6	210	CLA	CMB-C2B-C1B	-3.06	123.76	128.46
44	p	611	DD6	C37-C36-C31	-3.06	120.20	124.35
44	6	204	DD6	C28-C27-C29	3.06	122.89	116.84
31	1	206	CLA	CMB-C2B-C3B	3.06	130.40	124.68
44	1	204	DD6	C28-C27-C29	3.05	122.89	116.84
43	5	302	ET4	C01-C06-C07	3.05	124.42	115.78
42	2	302	A86	O4-C38-O5	-3.05	116.90	122.96
31	b	515	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
31	c	502	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
43	0	302	ET4	C01-C06-C07	3.05	124.40	115.78
31	5	312	CLA	O2D-CGD-O1D	-3.04	117.89	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	0	312	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
31	5	312	CLA	CMB-C2B-C3B	3.04	130.37	124.68
31	0	312	CLA	CMB-C2B-C3B	3.04	130.37	124.68
31	B	514	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
42	P	610	A86	O1-C15-C20	-3.04	56.43	59.40
31	2	316	CLA	O2D-CGD-O1D	-3.04	117.89	123.84
35	d	406	PL9	C7-C8-C9	-3.04	121.73	126.79
31	C	502	CLA	O2D-CGD-O1D	-3.04	117.90	123.84
42	7	302	A86	C41-C32-C31	-3.04	107.75	110.47
43	5	302	ET4	C42-C34-C33	-3.03	105.64	110.47
42	7	302	A86	O4-C38-O5	-3.03	116.94	122.96
31	C	503	CLA	CMB-C2B-C3B	3.03	130.34	124.68
31	D	404	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
42	8	302	A86	C23-C16-C22	-3.02	102.91	107.37
44	2	303	DD6	C13-C11-C10	3.02	123.58	118.94
31	2	306	CLA	CMB-C2B-C3B	3.02	130.33	124.68
42	9	203	A86	C28-C27-C26	-3.02	118.69	122.92
42	2	302	A86	C41-C32-C31	-3.02	107.77	110.47
31	4	213	CLA	CAB-C3B-C2B	3.02	130.59	124.69
35	D	406	PL9	C7-C8-C9	-3.02	121.77	126.79
44	8	303	DD6	C4-C3-C2	-3.02	117.30	123.47
31	c	503	CLA	CMB-C2B-C3B	3.01	130.32	124.68
41	V	201	HEM	C4D-ND-C1D	3.01	108.19	105.07
44	7	303	DD6	C13-C11-C10	3.01	123.56	118.94
44	1	203	DD6	C13-C11-C10	3.01	123.56	118.94
42	8	302	A86	C4-C3-C2	-3.01	117.31	123.47
31	3	311	CLA	CAA-C2A-C3A	-3.01	109.08	116.10
31	4	211	CLA	CAB-C3B-C2B	3.01	130.58	124.69
42	3	302	A86	C23-C16-C22	-3.01	102.93	107.37
44	3	303	DD6	C4-C3-C2	-3.01	117.31	123.47
44	6	204	DD6	C37-C36-C31	-3.01	120.26	124.35
31	C	508	CLA	O2D-CGD-O1D	-3.00	117.96	123.84
43	0	302	ET4	C42-C34-C33	-3.00	105.69	110.47
41	v	201	HEM	C4D-ND-C1D	3.00	108.17	105.07
31	B	510	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
31	9	213	CLA	CAB-C3B-C2B	3.00	130.56	124.69
31	d	404	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
31	9	211	CLA	CAB-C3B-C2B	3.00	130.56	124.69
44	6	203	DD6	C13-C11-C10	3.00	123.54	118.94
31	8	311	CLA	CAA-C2A-C3A	-2.99	109.11	116.10
42	4	203	A86	C28-C27-C26	-2.99	118.73	122.92
37	J	101	LMG	O6-C1-O1	-2.99	102.89	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	P	605	CLA	CMB-C2B-C3B	2.99	130.26	124.68
42	3	302	A86	C4-C3-C2	-2.98	117.36	123.47
37	j	101	LMG	O6-C1-O1	-2.98	102.91	109.97
44	1	204	DD6	C37-C36-C31	-2.98	120.30	124.35
44	6	204	DD6	C21-C20-C15	-2.98	117.27	122.26
31	b	511	CLA	O2D-CGD-O1D	-2.98	118.02	123.84
44	7	303	DD6	C-C1-C2	-2.98	118.75	122.92
44	2	303	DD6	C-C1-C2	-2.98	118.75	122.92
31	c	508	CLA	O2D-CGD-O1D	-2.98	118.02	123.84
37	D	410	LMG	O6-C1-O1	-2.97	102.93	109.97
31	3	306	CLA	C3A-C4A-CHB	-2.97	120.27	123.91
31	8	306	CLA	C3A-C4A-CHB	-2.97	120.27	123.91
37	d	410	LMG	O6-C1-O1	-2.97	102.94	109.97
31	b	515	CLA	CMB-C2B-C3B	2.97	130.23	124.68
31	0	313	CLA	CMB-C2B-C3B	2.97	130.23	124.68
44	2	304	DD6	C37-C36-C35	2.97	119.85	114.36
33	c	516	BCR	C20-C21-C22	-2.96	123.08	127.31
31	7	315	CLA	CMB-C2B-C3B	2.96	130.22	124.68
31	p	603	CLA	CBD-CHA-C1A	2.96	132.17	127.43
31	2	308	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
31	P	603	CLA	CBD-CHA-C1A	2.96	132.16	127.43
31	B	514	CLA	CMB-C2B-C3B	2.95	130.21	124.68
44	1	203	DD6	C-C1-C2	-2.95	118.78	122.92
44	1	204	DD6	C21-C20-C15	-2.95	117.31	122.26
31	p	605	CLA	CMB-C2B-C3B	2.95	130.20	124.68
33	B	517	BCR	C24-C23-C22	-2.95	121.78	126.23
31	D	401	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
42	5	303	A86	O1-C15-C14	-2.95	107.29	113.21
42	0	303	A86	O1-C15-C14	-2.95	107.29	113.21
31	d	401	CLA	O2D-CGD-O1D	-2.95	118.08	123.84
42	5	303	A86	C40-C32-C31	-2.95	107.83	110.47
42	0	303	A86	C40-C32-C31	-2.95	107.83	110.47
31	1	215	CLA	CBD-CHA-C1A	2.95	132.15	127.43
31	B	515	CLA	O2D-CGD-O1D	-2.95	118.08	123.84
44	6	203	DD6	C-C1-C2	-2.94	118.80	122.92
31	5	313	CLA	CMB-C2B-C3B	2.94	130.18	124.68
31	0	314	CLA	CBD-CHA-C1A	2.94	132.14	127.43
31	7	308	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
31	b	513	CLA	CAA-C2A-C3A	-2.94	109.24	116.10
33	b	518	BCR	C24-C23-C22	-2.94	121.79	126.23
44	P	611	DD6	C21-C20-C15	-2.94	117.34	122.26
31	6	215	CLA	CBD-CHA-C1A	2.94	132.13	127.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B	512	CLA	CAA-C2A-C3A	-2.94	109.25	116.10
42	9	202	A86	C21-C20-C19	2.94	117.58	114.28
44	p	611	DD6	C21-C20-C15	-2.94	117.34	122.26
31	B	512	CLA	O2D-CGD-O1D	-2.93	118.10	123.84
44	7	304	DD6	C37-C36-C35	2.93	119.78	114.36
33	C	516	BCR	C20-C21-C22	-2.93	123.13	127.31
31	p	609	CLA	CHB-C4A-NA	2.93	128.56	124.51
31	p	608	CLA	CAB-C3B-C2B	2.93	130.43	124.69
31	C	510	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
31	D	403	CLA	CMB-C2B-C3B	2.93	130.42	124.69
31	c	510	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
31	P	608	CLA	CAB-C3B-C2B	2.93	130.42	124.69
31	2	315	CLA	CMB-C2B-C3B	2.93	130.16	124.68
31	d	403	CLA	CMB-C2B-C3B	2.93	130.42	124.69
31	b	516	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
37	d	409	LMG	C6-C5-C4	-2.92	106.16	113.00
37	D	409	LMG	C6-C5-C4	-2.92	106.16	113.00
31	b	513	CLA	O2D-CGD-O1D	-2.92	118.12	123.84
31	3	305	CLA	CAC-C3C-C4C	2.92	128.60	124.81
31	9	211	CLA	C1B-CHB-C4A	-2.92	124.33	130.12
32	A	405	PHO	C1-C2-C3	-2.92	121.00	126.04
31	6	205	CLA	CMB-C2B-C3B	2.92	130.14	124.68
32	a	405	PHO	C1-C2-C3	-2.92	121.00	126.04
31	P	609	CLA	CHB-C4A-NA	2.91	128.54	124.51
31	3	312	CLA	CMB-C2B-C3B	2.91	130.13	124.68
42	4	202	A86	C21-C20-C19	2.91	117.56	114.28
42	9	203	A86	C12-C11-C13	2.91	120.91	116.02
31	z	101	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
31	8	305	CLA	CAC-C3C-C4C	2.91	128.59	124.81
31	4	211	CLA	C1B-CHB-C4A	-2.91	124.35	130.12
31	5	314	CLA	CBD-CHA-C1A	2.91	132.09	127.43
31	7	313	CLA	CBD-CHA-C1A	2.91	132.09	127.43
31	2	313	CLA	CBD-CHA-C1A	2.91	132.09	127.43
31	1	205	CLA	CMB-C2B-C3B	2.91	130.11	124.68
31	6	208	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
32	A	406	PHO	O2D-CGD-O1D	-2.90	118.16	123.84
31	C	512	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
31	8	312	CLA	CMB-C2B-C3B	2.90	130.11	124.68
31	5	307	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
37	D	410	LMG	O6-C1-C2	2.90	116.49	110.35
32	a	406	PHO	O2D-CGD-O1D	-2.90	118.17	123.84
31	Z	101	CLA	O2D-CGD-O1D	-2.90	118.17	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	6	213	CLA	CMB-C2B-C3B	2.90	130.10	124.68
31	b	505	CLA	C1-C2-C3	-2.90	121.03	126.04
31	5	307	CLA	CMB-C2B-C3B	2.90	130.10	124.68
31	C	507	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
37	d	410	LMG	O6-C1-C2	2.90	116.48	110.35
31	6	206	CLA	O2D-CGD-O1D	-2.90	118.18	123.84
31	c	512	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
34	0	316	SQD	O8-S-C6	2.89	110.35	105.74
31	5	313	CLA	CBD-CHA-C1A	2.89	132.06	127.43
31	B	504	CLA	C1-C2-C3	-2.89	121.04	126.04
31	1	213	CLA	CMB-C2B-C3B	2.89	130.09	124.68
31	0	307	CLA	CMB-C2B-C3B	2.89	130.09	124.68
31	1	206	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
33	c	516	BCR	C7-C8-C9	-2.89	121.87	126.23
31	4	212	CLA	CMB-C2B-C3B	2.89	130.34	124.69
31	c	507	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
31	9	207	CLA	CBD-CHA-C1A	2.89	132.05	127.43
31	7	309	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
31	0	307	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
31	1	208	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
31	C	503	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
34	5	316	SQD	O8-S-C6	2.88	110.33	105.74
31	9	208	CLA	CMB-C2B-C3B	2.88	130.07	124.68
42	4	203	A86	C12-C11-C13	2.88	120.86	116.02
31	0	304	CLA	CAA-C2A-C3A	-2.88	109.38	116.10
31	1	216	CLA	CBD-CHA-C1A	2.88	132.04	127.43
31	4	207	CLA	CBD-CHA-C1A	2.88	132.04	127.43
33	B	518	BCR	C15-C14-C13	-2.87	123.21	127.31
31	2	309	CLA	C1B-CHB-C4A	-2.87	124.42	130.12
31	0	313	CLA	CBD-CHA-C1A	2.87	132.03	127.43
31	9	212	CLA	CMB-C2B-C3B	2.87	130.31	124.69
42	7	302	A86	C9-C10-C11	-2.87	118.16	126.61
31	7	309	CLA	C1B-CHB-C4A	-2.87	124.43	130.12
39	H	102	DGD	O6D-C1D-O3G	-2.87	103.18	109.97
37	J	101	LMG	O1-C7-C8	-2.87	103.98	110.90
39	h	102	DGD	O6D-C1D-O3G	-2.87	103.18	109.97
31	0	309	CLA	CAA-C2A-C3A	-2.87	109.41	116.10
31	0	310	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
33	b	518	BCR	C33-C5-C6	-2.87	121.31	124.53
34	A	411	SQD	O8-S-C6	2.87	110.31	105.74
31	5	309	CLA	CAA-C2A-C3A	-2.86	109.42	116.10
37	B	520	LMG	O6-C1-O1	-2.86	103.19	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	5	304	CLA	CAA-C2A-C3A	-2.86	109.42	116.10
33	b	519	BCR	C15-C14-C13	-2.86	123.22	127.31
31	3	313	CLA	CMB-C2B-C3B	2.86	130.03	124.68
31	c	502	CLA	CHB-C4A-NA	2.86	128.47	124.51
42	0	303	A86	C-C1-C2	-2.86	118.92	122.92
33	k	101	BCR	C15-C16-C17	-2.86	117.61	123.47
37	b	521	LMG	O6-C1-O1	-2.86	103.20	109.97
33	C	516	BCR	C7-C8-C9	-2.86	121.91	126.23
37	j	101	LMG	O1-C7-C8	-2.86	104.00	110.90
31	8	313	CLA	CBD-CHA-C1A	2.86	132.01	127.43
31	5	310	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
31	7	308	CLA	CAB-C3B-C2B	2.86	130.28	124.69
31	4	208	CLA	CMB-C2B-C3B	2.86	130.03	124.68
31	8	313	CLA	CMB-C2B-C3B	2.86	130.03	124.68
33	K	101	BCR	C15-C16-C17	-2.86	117.62	123.47
31	6	216	CLA	CBD-CHA-C1A	2.86	132.00	127.43
42	2	302	A86	C9-C10-C11	-2.86	118.21	126.61
42	5	303	A86	C-C1-C2	-2.86	118.92	122.92
31	B	516	CLA	CMB-C2B-C3B	2.86	130.02	124.68
31	P	606	CLA	CMB-C2B-C3B	2.86	130.02	124.68
31	8	306	CLA	CAB-C3B-C2B	2.86	130.28	124.69
32	a	406	PHO	O1D-CGD-CBD	2.86	129.50	124.74
34	B	522	SQD	O8-S-C6	2.85	110.29	105.74
31	0	311	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
39	h	102	DGD	CDB-CCB-CBB	-2.85	99.94	114.42
31	2	309	CLA	O2D-CGD-O1D	-2.85	118.26	123.84
39	H	102	DGD	CDB-CCB-CBB	-2.85	99.95	114.42
31	3	313	CLA	CBD-CHA-C1A	2.85	131.99	127.43
31	5	311	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
31	B	510	CLA	CMB-C2B-C3B	2.85	130.00	124.68
31	b	508	CLA	CAA-C2A-C3A	-2.85	109.45	116.10
31	C	504	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
31	c	503	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
31	b	517	CLA	CMB-C2B-C3B	2.85	130.00	124.68
32	A	406	PHO	O1D-CGD-CBD	2.85	129.48	124.74
31	3	306	CLA	CAB-C3B-C2B	2.85	130.26	124.69
31	B	507	CLA	CAA-C2A-C3A	-2.84	109.46	116.10
31	b	511	CLA	CMB-C2B-C3B	2.84	129.99	124.68
44	6	203	DD6	C33-C34-C35	-2.84	106.42	110.30
31	1	209	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
31	c	504	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
39	c	518	DGD	O5D-C6D-C5D	-2.84	103.80	109.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	p	606	CLA	CMB-C2B-C3B	2.84	129.99	124.68
31	7	311	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
31	4	204	CLA	CMB-C2B-C3B	2.84	129.98	124.68
31	C	502	CLA	CHB-C4A-NA	2.83	128.43	124.51
39	C	518	DGD	O5D-C6D-C5D	-2.83	103.81	109.05
33	B	517	BCR	C33-C5-C6	-2.83	121.35	124.53
42	9	202	A86	C35-C34-C33	-2.83	104.94	109.88
44	1	204	DD6	C25-C24-C1	-2.83	118.47	126.42
31	2	308	CLA	CAB-C3B-C2B	2.83	130.22	124.69
42	4	202	A86	C35-C34-C33	-2.82	104.95	109.88
31	P	609	CLA	CAA-C2A-C3A	-2.82	109.51	116.10
31	9	211	CLA	CMB-C2B-C3B	2.82	130.22	124.69
31	6	206	CLA	CHB-C4A-NA	2.82	128.41	124.51
42	P	610	A86	C23-C16-C17	-2.82	104.08	108.98
42	8	302	A86	O4-C38-O5	-2.82	117.36	122.96
31	6	209	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
44	7	303	DD6	C7-C6-C5	-2.82	118.97	122.92
31	2	312	CLA	CBD-CHA-C1A	2.82	131.94	127.43
44	6	204	DD6	C25-C24-C1	-2.82	118.50	126.42
31	9	212	CLA	CAB-C3B-C2B	2.82	130.20	124.69
42	7	302	A86	C33-C32-C31	2.82	111.95	109.21
31	7	312	CLA	CBD-CHA-C1A	2.81	131.94	127.43
31	p	606	CLA	C1B-CHB-C4A	-2.81	124.55	130.12
31	2	311	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
31	p	601	CLA	CHB-C4A-NA	2.81	128.40	124.51
37	c	521	LMG	C8-O7-C10	-2.81	110.87	117.79
31	P	606	CLA	C1B-CHB-C4A	-2.81	124.55	130.12
31	9	208	CLA	O2D-CGD-O1D	-2.81	117.70	124.09
31	9	204	CLA	CMB-C2B-C3B	2.81	129.94	124.68
37	C	521	LMG	C8-O7-C10	-2.81	110.87	117.79
44	2	303	DD6	C7-C6-C5	-2.81	118.99	122.92
42	p	610	A86	C23-C16-C17	-2.81	104.11	108.98
42	2	302	A86	C33-C32-C31	2.81	111.94	109.21
31	4	212	CLA	CAB-C3B-C2B	2.81	130.18	124.69
31	6	212	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
31	4	208	CLA	O2D-CGD-O1D	-2.81	117.72	124.09
31	1	212	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
31	7	315	CLA	CBD-CHA-C1A	2.80	131.92	127.43
42	3	302	A86	O4-C38-O5	-2.80	117.39	122.96
44	1	203	DD6	C33-C34-C35	-2.80	106.47	110.30
31	4	211	CLA	CMB-C2B-C3B	2.80	130.17	124.69
31	4	208	CLA	C2A-C1A-CHA	2.80	128.73	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	9	213	CLA	CHD-C1D-ND	-2.79	121.89	124.45
34	B	522	SQD	O5-C1-C2	2.79	116.26	110.35
31	9	208	CLA	C2A-C1A-CHA	2.79	128.73	123.85
31	B	506	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
31	7	306	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
31	p	609	CLA	CAA-C2A-C3A	-2.79	109.59	116.10
34	A	411	SQD	O5-C1-C2	2.79	116.25	110.35
31	B	507	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
31	C	513	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
31	4	213	CLA	CHD-C1D-ND	-2.79	121.89	124.45
31	b	508	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
31	b	507	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
31	1	206	CLA	CHB-C4A-NA	2.79	128.37	124.51
31	6	216	CLA	CMB-C2B-C3B	2.79	129.89	124.68
31	7	313	CLA	CAA-C2A-C3A	-2.79	109.60	116.10
43	5	302	ET4	C07-C06-C05	-2.79	114.71	121.46
31	c	508	CLA	CHB-C4A-NA	2.79	128.36	124.51
31	1	216	CLA	CMB-C2B-C3B	2.78	129.89	124.68
31	3	304	CLA	CHB-C4A-NA	2.78	128.36	124.51
44	6	203	DD6	C7-C6-C5	-2.78	119.02	122.92
31	P	601	CLA	CMB-C2B-C3B	2.78	129.89	124.68
44	2	303	DD6	C33-C34-C35	-2.78	106.49	110.30
31	p	601	CLA	CMB-C2B-C3B	2.78	129.88	124.68
33	b	518	BCR	C15-C16-C17	-2.78	117.77	123.47
34	5	316	SQD	O6-C1-C2	2.78	112.65	108.30
31	D	403	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
31	9	207	CLA	CHB-C4A-NA	2.78	128.36	124.51
31	0	306	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
37	D	410	LMG	O1-C7-C8	-2.78	104.20	110.90
31	b	517	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
33	B	517	BCR	C15-C16-C17	-2.78	117.78	123.47
44	7	303	DD6	C33-C34-C35	-2.78	106.50	110.30
31	5	309	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
31	4	207	CLA	CMB-C2B-C3B	2.78	129.87	124.68
31	9	207	CLA	CMB-C2B-C3B	2.78	129.87	124.68
31	2	306	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
44	p	611	DD6	C15-C14-C13	-2.77	120.13	125.99
37	d	410	LMG	O1-C7-C8	-2.77	104.21	110.90
31	P	608	CLA	CBD-CHA-C1A	2.77	131.77	128.50
44	1	203	DD6	C7-C6-C5	-2.77	119.04	122.92
31	C	508	CLA	CHB-C4A-NA	2.77	128.34	124.51
31	8	304	CLA	CHB-C4A-NA	2.77	128.34	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	c	513	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
31	0	309	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
31	5	306	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
31	z	101	CLA	CMB-C2B-C3B	2.77	129.85	124.68
31	5	304	CLA	CMB-C2B-C3B	2.77	129.85	124.68
31	6	201	CLA	CMB-C2B-C3B	2.77	130.10	124.69
43	0	302	ET4	C07-C06-C05	-2.77	114.76	121.46
31	2	310	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
42	4	202	A86	O4-C34-C35	2.76	114.47	107.59
34	0	316	SQD	O6-C1-C2	2.76	112.62	108.30
44	6	204	DD6	O1-C20-C21	-2.76	111.75	115.06
31	Z	101	CLA	CMB-C2B-C3B	2.76	129.84	124.68
31	8	308	CLA	C1B-CHB-C4A	-2.76	124.65	130.12
42	9	202	A86	C9-C10-C11	-2.76	118.49	126.61
31	P	601	CLA	CHB-C4A-NA	2.76	128.33	124.51
31	B	516	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
31	c	511	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
31	4	207	CLA	CHB-C4A-NA	2.76	128.33	124.51
31	C	511	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
31	2	315	CLA	CBD-CHA-C1A	2.76	131.84	127.43
44	1	204	DD6	O1-C20-C21	-2.76	111.75	115.06
31	B	508	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
31	d	403	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
44	P	611	DD6	C15-C14-C13	-2.75	120.17	125.99
31	3	310	CLA	CHB-C4A-NA	2.75	128.32	124.51
31	2	313	CLA	CMB-C2B-C3B	2.75	129.83	124.68
37	m	102	LMG	O6-C1-O1	-2.75	103.45	109.97
31	6	211	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
42	9	202	A86	O4-C34-C35	2.75	114.45	107.59
31	3	306	CLA	CMB-C2B-C3B	2.75	130.08	124.69
31	2	313	CLA	CAA-C2A-C3A	-2.75	109.68	116.10
31	1	210	CLA	C1B-CHB-C4A	-2.75	124.67	130.12
31	0	304	CLA	CMB-C2B-C3B	2.75	129.82	124.68
31	7	310	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
34	a	409	SQD	O5-C5-C4	2.75	114.68	109.69
36	d	412	LHG	O8-C23-C24	2.75	120.53	111.91
31	1	211	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
34	A	409	SQD	O5-C5-C4	2.75	114.68	109.69
31	1	207	CLA	CMB-C2B-C3B	2.75	130.06	124.69
34	B	523	SQD	C44-O6-C1	2.75	119.10	113.74
31	6	215	CLA	CAA-C2A-C3A	-2.74	109.69	116.10
31	P	607	CLA	CMB-C2B-C3B	2.74	130.06	124.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	1	201	CLA	CMB-C2B-C3B	2.74	130.06	124.69
31	3	308	CLA	C1B-CHB-C4A	-2.74	124.68	130.12
31	6	210	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
42	4	202	A86	C9-C10-C11	-2.74	118.55	126.61
37	M	102	LMG	O6-C1-O1	-2.74	103.49	109.97
42	5	303	A86	C19-C18-C17	-2.74	105.48	110.77
31	7	313	CLA	CMB-C2B-C3B	2.74	129.80	124.68
31	B	511	CLA	O2D-CGD-O1D	-2.74	118.49	123.84
42	8	301	A86	C14-C15-C16	2.74	129.23	118.75
37	M	101	LMG	O6-C1-O1	-2.74	103.49	109.97
36	A	412	LHG	O8-C23-C24	2.74	120.49	111.91
42	8	301	A86	C19-C18-C17	2.74	116.06	110.77
33	b	519	BCR	C15-C16-C17	-2.74	117.87	123.47
31	1	215	CLA	CAA-C2A-C3A	-2.73	109.72	116.10
31	b	509	CLA	O2D-CGD-O1D	-2.73	118.49	123.84
33	B	518	BCR	C15-C16-C17	-2.73	117.88	123.47
42	P	610	A86	C4-C3-C2	-2.73	117.88	123.47
31	8	310	CLA	CHB-C4A-NA	2.73	128.29	124.51
31	b	512	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
42	3	301	A86	C19-C18-C17	2.73	116.05	110.77
42	3	301	A86	C14-C15-C16	2.73	129.21	118.75
31	b	502	CLA	CMB-C2B-C3B	2.73	129.78	124.68
42	0	303	A86	C19-C18-C17	-2.73	105.50	110.77
31	p	607	CLA	CMB-C2B-C3B	2.73	130.03	124.69
36	a	411	LHG	O8-C23-C24	2.73	120.47	111.91
31	B	501	CLA	CMB-C2B-C3B	2.73	129.78	124.68
31	p	608	CLA	CBD-CHA-C1A	2.73	131.71	128.50
31	6	207	CLA	O2D-CGD-O1D	-2.73	118.51	123.84
31	6	207	CLA	CMB-C2B-C3B	2.73	130.03	124.69
37	C	521	LMG	O8-C28-C29	2.73	120.46	111.91
34	b	501	SQD	C44-O6-C1	2.72	119.06	113.74
31	8	306	CLA	CMB-C2B-C3B	2.72	130.02	124.69
42	p	610	A86	C17-C16-C15	2.72	111.94	109.16
42	P	610	A86	C17-C16-C15	2.72	111.94	109.16
31	4	206	CLA	CMB-C2B-C3B	2.72	129.77	124.68
31	0	308	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
37	c	521	LMG	O8-C28-C29	2.72	120.44	111.91
31	6	205	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
37	m	101	LMG	O6-C1-O1	-2.72	103.54	109.97
36	D	412	LHG	O8-C23-C24	2.72	120.44	111.91
42	p	610	A86	C4-C3-C2	-2.72	117.91	123.47
42	0	317	A86	C23-C16-C17	-2.72	104.26	108.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	6	214	CLA	CBD-CHA-C1A	2.71	131.78	127.43
31	1	214	CLA	CBD-CHA-C1A	2.71	131.78	127.43
42	6	202	A86	O1-C15-C20	-2.71	56.75	59.40
42	4	201	A86	C41-C32-C40	-2.71	100.20	108.53
34	b	501	SQD	O6-C1-C2	2.71	112.54	108.30
31	0	314	CLA	CAA-C2A-C3A	-2.71	109.77	116.10
31	3	308	CLA	CMB-C2B-C3B	2.71	129.75	124.68
31	5	309	CLA	CMB-C2B-C3B	2.71	129.75	124.68
31	p	603	CLA	CHB-C4A-NA	2.71	128.26	124.51
31	0	313	CLA	CAA-C2A-C3A	-2.71	109.77	116.10
31	1	205	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
31	1	201	CLA	CAB-C3B-C2B	2.71	130.00	124.69
31	1	207	CLA	O2D-CGD-O1D	-2.71	118.54	123.84
42	4	202	A86	O4-C34-C33	-2.71	100.84	107.59
31	2	305	CLA	CMB-C2B-C3B	2.71	129.75	124.68
31	b	502	CLA	CHB-C4A-NA	2.71	128.26	124.51
42	9	201	A86	C41-C32-C40	-2.71	100.22	108.53
42	5	317	A86	C23-C16-C17	-2.71	104.28	108.98
31	C	505	CLA	O2D-CGD-O1D	-2.71	118.55	123.84
31	6	209	CLA	CAB-C3B-C2B	2.71	129.99	124.69
42	3	301	A86	C8-C6-C5	2.71	123.09	118.94
31	8	308	CLA	CMB-C2B-C3B	2.71	129.74	124.68
31	9	206	CLA	CMB-C2B-C3B	2.70	129.74	124.68
42	9	202	A86	O4-C34-C33	-2.70	100.86	107.59
42	7	301	A86	C23-C16-C17	-2.70	104.29	108.98
31	5	308	CLA	O2D-CGD-O1D	-2.70	118.55	123.84
31	8	311	CLA	CHB-C4A-NA	2.70	128.25	124.51
32	A	405	PHO	O2D-CGD-O1D	-2.70	118.56	123.84
31	0	309	CLA	CMB-C2B-C3B	2.70	129.73	124.68
31	6	201	CLA	CAB-C3B-C2B	2.70	129.98	124.69
31	3	309	CLA	CHB-C4A-NA	2.70	128.25	124.51
31	p	605	CLA	CHB-C4A-NA	2.70	128.24	124.51
31	5	314	CLA	CAA-C2A-C3A	-2.70	109.80	116.10
31	5	313	CLA	CAA-C2A-C3A	-2.70	109.80	116.10
31	B	504	CLA	CHB-C4A-NA	2.70	128.24	124.51
31	w	202	CLA	CMD-C2D-C1D	-2.70	119.96	124.71
31	6	210	CLA	CHB-C4A-NA	2.69	128.24	124.51
31	8	309	CLA	CHB-C4A-NA	2.69	128.24	124.51
31	c	505	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
31	b	506	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
31	b	505	CLA	CHB-C4A-NA	2.69	128.23	124.51
31	1	209	CLA	CAB-C3B-C2B	2.69	129.95	124.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	2	304	DD6	C19-C18-C17	2.69	115.97	110.77
31	7	314	CLA	CAA-C2A-C3A	-2.69	109.83	116.10
31	W	202	CLA	CMD-C2D-C1D	-2.69	119.98	124.71
31	p	607	CLA	CAB-C3B-C2B	2.69	129.95	124.69
31	7	305	CLA	CMB-C2B-C3B	2.69	129.70	124.68
31	2	314	CLA	CBD-CHA-C1A	2.69	131.73	127.43
42	2	301	A86	C23-C16-C17	-2.68	104.32	108.98
31	B	505	CLA	O2D-CGD-O1D	-2.68	118.59	123.84
31	P	603	CLA	CHB-C4A-NA	2.68	128.22	124.51
42	8	301	A86	C8-C6-C5	2.68	123.06	118.94
31	P	607	CLA	CAB-C3B-C2B	2.68	129.94	124.69
34	B	523	SQD	O6-C1-C2	2.68	112.49	108.30
31	1	210	CLA	CHB-C4A-NA	2.68	128.22	124.51
31	8	307	CLA	CHB-C4A-NA	2.68	128.22	124.51
31	2	314	CLA	CAA-C2A-C3A	-2.68	109.85	116.10
31	c	505	CLA	CHB-C4A-NA	2.68	128.21	124.51
31	4	209	CLA	CHB-C4A-NA	2.68	128.21	124.51
31	3	311	CLA	CHB-C4A-NA	2.68	128.21	124.51
44	7	304	DD6	C19-C18-C17	2.68	115.94	110.77
42	0	301	A86	C25-C24-C1	-2.68	118.90	126.42
32	a	405	PHO	O2D-CGD-O1D	-2.67	118.61	123.84
36	B	521	LHG	C11-C10-C9	-2.67	100.85	114.42
31	3	305	CLA	CMB-C2B-C3B	2.67	129.68	124.68
43	0	302	ET4	C08-C09-C10	2.67	123.04	118.94
36	b	522	LHG	C11-C10-C9	-2.67	100.86	114.42
31	9	209	CLA	CHB-C4A-NA	2.67	128.21	124.51
31	6	207	CLA	CAB-C3B-C2B	2.67	129.92	124.69
31	B	501	CLA	CHB-C4A-NA	2.67	128.20	124.51
34	B	523	SQD	O48-C23-C24	2.67	120.28	111.91
42	5	301	A86	C25-C24-C1	-2.67	118.92	126.42
31	d	403	CLA	C1B-CHB-C4A	-2.67	124.84	130.12
34	b	501	SQD	O48-C23-C24	2.67	120.28	111.91
43	5	302	ET4	C08-C09-C10	2.67	123.03	118.94
31	7	315	CLA	CAA-C2A-C3A	-2.67	109.88	116.10
31	8	309	CLA	CMA-C3A-C2A	-2.67	109.88	116.10
35	D	406	PL9	C27-C28-C29	-2.66	121.24	127.66
43	5	302	ET4	C28-C13-C14	-2.66	119.19	122.92
31	2	315	CLA	CAA-C2A-C3A	-2.66	109.89	116.10
31	9	213	CLA	CMB-C2B-C3B	2.66	129.90	124.69
31	1	210	CLA	CMB-C2B-C3B	2.66	129.66	124.68
42	1	202	A86	O1-C15-C20	-2.66	56.80	59.40
31	C	505	CLA	CHB-C4A-NA	2.66	128.19	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	3	307	CLA	CHB-C4A-NA	2.66	128.19	124.51
31	P	605	CLA	CHB-C4A-NA	2.66	128.19	124.51
31	W	202	CLA	C1B-CHB-C4A	-2.66	124.85	130.12
31	P	608	CLA	CMB-C2B-C3B	2.66	129.89	124.69
43	0	302	ET4	C35-C36-C37	-2.66	106.67	110.30
31	b	516	CLA	CHB-C4A-NA	2.66	128.19	124.51
39	c	519	DGD	CDB-CCB-CBB	-2.66	100.94	114.42
35	d	406	PL9	C27-C28-C29	-2.66	121.27	127.66
42	5	303	A86	C33-C32-C31	2.65	111.79	109.21
42	0	303	A86	C33-C32-C31	2.65	111.79	109.21
31	3	309	CLA	CMA-C3A-C2A	-2.65	109.91	116.10
39	C	519	DGD	CDB-CCB-CBB	-2.65	100.96	114.42
42	9	203	A86	C21-C20-C19	2.65	117.26	114.28
31	6	216	CLA	CAA-C2A-C3A	-2.65	109.91	116.10
31	D	403	CLA	C1B-CHB-C4A	-2.65	124.87	130.12
43	5	302	ET4	C35-C36-C37	-2.65	106.68	110.30
31	w	202	CLA	C1B-CHB-C4A	-2.65	124.87	130.12
31	7	308	CLA	CMB-C2B-C3B	2.65	129.87	124.69
31	2	308	CLA	CMB-C2B-C3B	2.64	129.87	124.69
31	7	314	CLA	CBD-CHA-C1A	2.64	131.66	127.43
31	6	213	CLA	O2D-CGD-O1D	-2.64	118.09	124.09
31	d	403	CLA	CAB-C3B-C2B	2.64	129.86	124.69
39	C	518	DGD	CDB-CCB-CBB	-2.64	101.03	114.42
31	p	605	CLA	C1B-CHB-C4A	-2.64	124.89	130.12
31	6	210	CLA	CMB-C2B-C3B	2.64	129.61	124.68
31	6	205	CLA	CAA-C2A-C3A	-2.64	109.94	116.10
42	4	203	A86	C21-C20-C19	2.64	117.25	114.28
32	A	405	PHO	O1D-CGD-CBD	2.64	129.13	124.74
31	1	216	CLA	CAA-C2A-C3A	-2.64	109.95	116.10
42	5	301	A86	O-C13-C11	-2.63	115.33	121.15
39	c	518	DGD	CDB-CCB-CBB	-2.63	101.05	114.42
42	0	301	A86	O-C13-C11	-2.63	115.33	121.15
31	1	207	CLA	CAB-C3B-C2B	2.63	129.84	124.69
31	B	515	CLA	CHB-C4A-NA	2.63	128.15	124.51
31	c	514	CLA	CHB-C4A-NA	2.63	128.15	124.51
31	0	311	CLA	CHB-C4A-NA	2.63	128.15	124.51
37	d	409	LMG	O6-C1-O1	-2.63	103.74	109.97
31	8	305	CLA	CMB-C2B-C3B	2.63	129.60	124.68
31	D	403	CLA	CAB-C3B-C2B	2.63	129.84	124.69
31	6	212	CLA	CAA-C2A-C3A	-2.63	109.96	116.10
31	C	514	CLA	CHB-C4A-NA	2.63	128.15	124.51
31	1	205	CLA	CAA-C2A-C3A	-2.63	109.96	116.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	a	407	CLA	CHB-C4A-NA	2.63	128.15	124.51
31	P	605	CLA	C1B-CHB-C4A	-2.63	124.91	130.12
44	p	611	DD6	C37-C36-C35	2.63	119.22	114.36
31	1	212	CLA	CAA-C2A-C3A	-2.63	109.97	116.10
42	8	301	A86	O-C13-C11	-2.62	115.35	121.15
31	1	213	CLA	O2D-CGD-O1D	-2.62	118.13	124.09
43	0	302	ET4	C28-C13-C14	-2.62	119.25	122.92
31	C	512	CLA	CHB-C4A-NA	2.62	128.14	124.51
31	5	309	CLA	CHB-C4A-NA	2.62	128.13	124.51
31	1	209	CLA	CMB-C2B-C3B	2.62	129.82	124.69
31	c	512	CLA	CHB-C4A-NA	2.62	128.13	124.51
42	3	301	A86	O-C13-C11	-2.62	115.36	121.15
37	D	409	LMG	O6-C1-O1	-2.62	103.78	109.97
33	k	101	BCR	C33-C5-C6	-2.62	121.59	124.53
31	p	607	CLA	C1B-CHB-C4A	-2.62	124.94	130.12
42	9	202	A86	C9-C8-C6	-2.62	119.07	126.42
31	B	512	CLA	CHB-C4A-NA	2.62	128.13	124.51
31	A	407	CLA	CHB-C4A-NA	2.61	128.13	124.51
31	4	213	CLA	CMB-C2B-C3B	2.61	129.81	124.69
31	6	209	CLA	CMB-C2B-C3B	2.61	129.81	124.69
44	P	611	DD6	C37-C36-C35	2.61	119.20	114.36
32	a	405	PHO	O1D-CGD-CBD	2.61	129.09	124.74
31	B	516	CLA	CHB-C4A-NA	2.61	128.12	124.51
31	5	311	CLA	CHB-C4A-NA	2.61	128.12	124.51
31	8	314	CLA	CAB-C3B-C2B	2.61	129.80	124.69
36	a	412	LHG	C11-C10-C9	-2.61	101.17	114.42
31	8	310	CLA	CHC-C1C-C2C	-2.61	123.56	129.77
42	7	301	A86	C20-C19-C18	2.61	117.91	112.75
36	A	413	LHG	C11-C10-C9	-2.61	101.18	114.42
31	p	608	CLA	CMB-C2B-C3B	2.61	129.80	124.69
36	H	103	LHG	O8-C23-C24	2.61	120.09	111.91
33	c	515	BCR	C24-C23-C22	-2.61	122.29	126.23
33	B	519	BCR	C11-C10-C9	-2.61	123.59	127.31
31	4	210	CLA	CHD-C1D-ND	-2.61	122.06	124.45
42	4	202	A86	C9-C8-C6	-2.60	119.10	126.42
31	b	510	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
31	3	310	CLA	CHC-C1C-C2C	-2.60	123.58	129.77
31	B	509	CLA	O2D-CGD-O1D	-2.60	118.75	123.84
42	2	301	A86	C20-C19-C18	2.60	117.89	112.75
31	b	513	CLA	CHB-C4A-NA	2.60	128.11	124.51
42	0	303	A86	C41-C32-C31	-2.60	108.14	110.47
31	P	604	CLA	CHB-C4A-NA	2.60	128.10	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	0	305	CLA	O2D-CGD-O1D	-2.60	118.76	123.84
31	b	517	CLA	CHB-C4A-NA	2.60	128.10	124.51
31	1	211	CLA	CHB-C4A-NA	2.59	128.10	124.51
31	8	305	CLA	CHB-C4A-NA	2.59	128.10	124.51
33	K	101	BCR	C33-C5-C6	-2.59	121.62	124.53
31	3	314	CLA	CAB-C3B-C2B	2.59	129.76	124.69
36	h	103	LHG	O8-C23-C24	2.59	120.03	111.91
39	c	519	DGD	C3G-C2G-C1G	-2.59	105.67	111.79
39	C	519	DGD	C3G-C2G-C1G	-2.59	105.67	111.79
31	4	210	CLA	CHB-C4A-NA	2.59	128.09	124.51
31	0	309	CLA	CHB-C4A-NA	2.59	128.09	124.51
31	P	607	CLA	C1B-CHB-C4A	-2.59	125.00	130.12
33	C	515	BCR	C24-C23-C22	-2.58	122.33	126.23
31	D	404	CLA	CHB-C4A-NA	2.58	128.09	124.51
31	8	309	CLA	CHD-C1D-ND	-2.58	122.08	124.45
31	c	507	CLA	C1B-CHB-C4A	-2.58	125.00	130.12
31	p	606	CLA	C4D-C3D-CAD	-2.58	105.06	108.10
42	5	303	A86	C41-C32-C31	-2.58	108.16	110.47
31	c	511	CLA	C1B-CHB-C4A	-2.58	125.01	130.12
31	1	214	CLA	CAA-C2A-C3A	-2.58	110.08	116.10
31	5	305	CLA	O2D-CGD-O1D	-2.58	118.80	123.84
34	a	409	SQD	O6-C1-C2	2.58	112.33	108.30
31	C	511	CLA	C1B-CHB-C4A	-2.57	125.02	130.12
33	b	520	BCR	C11-C10-C9	-2.57	123.64	127.31
34	A	409	SQD	O6-C1-C2	2.57	112.32	108.30
31	B	508	CLA	CHB-C4A-NA	2.57	128.07	124.51
31	d	404	CLA	CHB-C4A-NA	2.57	128.07	124.51
42	0	317	A86	C20-C19-C18	2.57	117.83	112.75
31	3	312	CLA	O2D-CGD-O1D	-2.57	118.26	124.09
35	D	406	PL9	C22-C23-C24	-2.57	121.48	127.66
31	b	514	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
31	4	209	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
31	9	210	CLA	CHB-C4A-NA	2.57	128.06	124.51
31	7	312	CLA	CAA-C2A-C3A	-2.57	110.11	116.10
42	5	317	A86	C20-C19-C18	2.57	117.83	112.75
31	b	509	CLA	CHB-C4A-NA	2.57	128.06	124.51
31	B	502	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
31	B	513	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
31	b	503	CLA	C1B-CHB-C4A	-2.56	125.04	130.12
31	P	606	CLA	C4D-C3D-CAD	-2.56	105.08	108.10
31	b	507	CLA	CHB-C4A-NA	2.56	128.05	124.51
31	6	214	CLA	CHB-C4A-NA	2.56	128.05	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	1	214	CLA	CHB-C4A-NA	2.56	128.05	124.51
31	6	214	CLA	CAA-C2A-C3A	-2.56	110.12	116.10
31	2	312	CLA	CAA-C2A-C3A	-2.56	110.12	116.10
31	8	305	CLA	O2D-CGD-O1D	-2.56	118.28	124.09
31	5	313	CLA	CHB-C4A-NA	2.56	128.05	124.51
44	8	303	DD6	C12-C11-C10	-2.56	119.34	122.92
31	d	401	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
31	D	401	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
31	8	312	CLA	O2D-CGD-O1D	-2.56	118.28	124.09
31	4	205	CLA	CMB-C2B-C1B	-2.56	124.53	128.46
35	d	406	PL9	C22-C23-C24	-2.56	121.50	127.66
31	C	507	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
35	a	410	PL9	C7-C8-C9	-2.56	122.54	126.79
31	3	313	CLA	CHB-C4A-NA	2.56	128.05	124.51
33	c	515	BCR	C15-C16-C17	-2.56	118.24	123.47
35	A	410	PL9	C7-C8-C9	-2.55	122.54	126.79
31	3	305	CLA	CHB-C4A-NA	2.55	128.04	124.51
31	0	313	CLA	CHB-C4A-NA	2.55	128.04	124.51
36	b	522	LHG	O8-C23-C24	2.55	119.92	111.91
31	9	205	CLA	CMB-C2B-C1B	-2.55	124.54	128.46
36	B	521	LHG	O8-C23-C24	2.55	119.92	111.91
33	C	515	BCR	C15-C16-C17	-2.55	118.25	123.47
31	8	304	CLA	CAB-C3B-C2B	2.55	129.68	124.69
31	B	507	CLA	CHB-C4A-NA	2.55	128.04	124.51
31	9	209	CLA	O2D-CGD-O1D	-2.55	118.85	123.84
31	C	510	CLA	CHB-C4A-NA	2.55	128.03	124.51
31	p	604	CLA	CHB-C4A-NA	2.55	128.03	124.51
42	7	302	A86	C-C1-C2	-2.54	119.36	122.92
36	B	521	LHG	C20-C19-C18	-2.54	101.52	114.42
42	2	302	A86	C-C1-C2	-2.54	119.36	122.92
31	a	403	CLA	CHB-C4A-NA	2.54	128.03	124.51
44	6	204	DD6	C9-C8-C6	-2.54	119.28	126.42
31	P	601	CLA	CHC-C1C-C2C	-2.54	123.73	129.77
36	b	522	LHG	C20-C19-C18	-2.54	101.53	114.42
44	2	303	DD6	C21-C20-C15	-2.54	118.00	122.26
35	d	406	PL9	C20-C19-C21	2.54	119.54	115.27
31	3	314	CLA	CHB-C4A-NA	2.54	128.02	124.51
31	0	307	CLA	CHB-C4A-NA	2.54	128.02	124.51
31	3	304	CLA	CAB-C3B-C2B	2.54	129.66	124.69
31	5	307	CLA	CHB-C4A-NA	2.54	128.02	124.51
31	8	313	CLA	CHB-C4A-NA	2.54	128.02	124.51
31	p	607	CLA	CHD-C1D-ND	-2.54	122.12	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	1	204	DD6	C32-C33-C34	-2.53	107.92	113.64
31	A	403	CLA	CHB-C4A-NA	2.53	128.01	124.51
31	6	211	CLA	CHB-C4A-NA	2.53	128.01	124.51
31	3	310	CLA	CMB-C2B-C3B	2.53	129.42	124.68
31	8	310	CLA	CMB-C2B-C3B	2.53	129.42	124.68
44	1	203	DD6	C21-C20-C15	-2.53	118.02	122.26
31	7	307	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
37	m	101	LMG	O1-C7-C8	-2.53	104.79	110.90
37	5	315	LMG	O6-C1-O1	-2.53	103.98	109.97
31	p	601	CLA	CHC-C1C-C2C	-2.53	123.75	129.77
42	4	201	A86	C41-C32-C33	2.53	120.41	109.05
31	3	309	CLA	CHD-C1D-ND	-2.53	122.13	124.45
37	j	101	LMG	C38-C37-C36	-2.53	101.59	114.42
31	a	403	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
44	P	611	DD6	C32-C31-C36	-2.53	119.06	122.63
44	3	303	DD6	C12-C11-C10	-2.53	119.38	122.92
37	J	101	LMG	C38-C37-C36	-2.53	101.60	114.42
31	b	508	CLA	CHB-C4A-NA	2.53	128.01	124.51
31	3	305	CLA	O2D-CGD-O1D	-2.53	118.35	124.09
42	9	201	A86	C41-C32-C33	2.53	120.39	109.05
31	C	509	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
31	c	509	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
31	3	311	CLA	CMA-C3A-C2A	-2.53	110.20	116.10
31	d	401	CLA	CHB-C4A-NA	2.53	128.00	124.51
31	4	210	CLA	CBD-CHA-C1A	2.52	131.47	127.43
44	6	204	DD6	C32-C33-C34	-2.52	107.94	113.64
42	9	201	A86	C35-C34-C33	-2.52	105.47	109.88
42	7	302	A86	C25-C24-C1	-2.52	119.33	126.42
31	B	506	CLA	CHB-C4A-NA	2.52	128.00	124.51
31	D	401	CLA	CHB-C4A-NA	2.52	128.00	124.51
44	1	204	DD6	C26-C25-C24	-2.52	115.35	123.22
44	p	611	DD6	C7-C6-C5	-2.52	119.39	122.92
31	A	403	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
33	C	517	BCR	C33-C5-C6	-2.52	121.70	124.53
44	8	303	DD6	C3-C2-C1	-2.52	123.71	127.31
37	0	315	LMG	O6-C1-O1	-2.52	104.01	109.97
44	1	204	DD6	C9-C8-C6	-2.52	119.34	126.42
31	c	504	CLA	CHB-C4A-NA	2.52	127.99	124.51
31	9	212	CLA	CHB-C4A-NA	2.52	127.99	124.51
31	c	505	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
31	8	311	CLA	CMA-C3A-C2A	-2.52	110.23	116.10
31	C	504	CLA	CHB-C4A-NA	2.52	127.99	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	4	201	A86	C35-C34-C33	-2.52	105.49	109.88
42	2	302	A86	C25-C24-C1	-2.52	119.35	126.42
35	D	406	PL9	C20-C19-C21	2.52	119.50	115.27
31	9	210	CLA	CHD-C1D-ND	-2.51	122.14	124.45
31	9	204	CLA	CHB-C4A-NA	2.51	127.99	124.51
33	c	515	BCR	C15-C14-C13	-2.51	123.72	127.31
42	8	302	A86	C3-C4-C5	-2.51	118.33	123.47
31	A	404	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
44	6	204	DD6	C26-C25-C24	-2.51	115.37	123.22
33	c	517	BCR	C33-C5-C6	-2.51	121.71	124.53
31	1	216	CLA	CHB-C4A-NA	2.51	127.99	124.51
37	M	101	LMG	O1-C7-C8	-2.51	104.84	110.90
31	b	510	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
31	b	511	CLA	CHB-C4A-NA	2.51	127.99	124.51
31	6	212	CLA	CHB-C4A-NA	2.51	127.99	124.51
37	B	520	LMG	O1-C1-C2	-2.51	104.38	108.30
31	A	407	CLA	C1B-CHB-C4A	-2.51	125.14	130.12
31	b	506	CLA	CHB-C4A-NA	2.51	127.98	124.51
31	b	510	CLA	CHB-C4A-NA	2.51	127.98	124.51
31	8	314	CLA	CHB-C4A-NA	2.51	127.98	124.51
31	7	316	CLA	CAA-C2A-C3A	-2.51	110.24	116.10
31	2	305	CLA	CHB-C4A-NA	2.51	127.98	124.51
31	a	404	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
31	9	210	CLA	CBD-CHA-C1A	2.51	131.45	127.43
37	b	521	LMG	O1-C1-C2	-2.51	104.39	108.30
31	c	510	CLA	CHB-C4A-NA	2.51	127.98	124.51
36	D	407	LHG	C11-C10-C9	-2.51	101.69	114.42
31	8	311	CLA	CMB-C2B-C3B	2.51	129.37	124.68
37	d	410	LMG	O1-C1-C2	-2.51	104.39	108.30
31	B	505	CLA	CHB-C4A-NA	2.51	127.98	124.51
31	B	509	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
31	2	316	CLA	CAA-C2A-C3A	-2.51	110.25	116.10
31	c	509	CLA	CHB-C4A-NA	2.51	127.98	124.51
31	a	407	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
33	B	519	BCR	C33-C5-C6	-2.51	121.71	124.53
33	b	520	BCR	C33-C5-C6	-2.51	121.71	124.53
31	1	215	CLA	CHB-C4A-NA	2.51	127.98	124.51
33	B	517	BCR	C27-C26-C25	2.51	126.37	122.73
41	f	101	HEM	C4D-ND-C1D	2.50	107.66	105.07
31	C	505	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
31	4	206	CLA	C1B-CHB-C4A	-2.50	125.16	130.12
31	3	312	CLA	CHB-C4A-NA	2.50	127.97	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	d	407	LHG	C11-C10-C9	-2.50	101.72	114.42
31	8	306	CLA	CHC-C1C-C2C	-2.50	123.82	129.77
33	h	101	BCR	C2-C1-C6	2.50	114.33	110.48
33	b	518	BCR	C27-C26-C25	2.50	126.36	122.73
39	H	102	DGD	C1D-C2D-C3D	-2.50	104.79	110.00
31	6	216	CLA	CHB-C4A-NA	2.50	127.97	124.51
31	C	509	CLA	CHB-C4A-NA	2.50	127.97	124.51
42	7	301	A86	O4-C34-C35	2.50	113.82	107.59
42	2	301	A86	O4-C34-C35	2.50	113.82	107.59
44	6	203	DD6	C21-C20-C15	-2.50	118.07	122.26
31	6	215	CLA	CHB-C4A-NA	2.50	127.97	124.51
31	3	311	CLA	CMB-C2B-C3B	2.50	129.35	124.68
41	F	101	HEM	C4D-ND-C1D	2.50	107.65	105.07
31	1	207	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
31	4	204	CLA	CHB-C4A-NA	2.50	127.96	124.51
31	B	509	CLA	CHB-C4A-NA	2.49	127.96	124.51
31	B	508	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
31	2	307	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
31	7	312	CLA	CHB-C4A-NA	2.49	127.96	124.51
44	P	611	DD6	C7-C6-C5	-2.49	119.43	122.92
44	P	611	DD6	C25-C24-C1	-2.49	119.41	126.42
31	1	208	CLA	CHB-C4A-NA	2.49	127.96	124.51
44	7	303	DD6	C21-C20-C15	-2.49	118.08	122.26
31	b	509	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
39	h	102	DGD	C1D-C2D-C3D	-2.49	104.81	110.00
31	6	207	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
31	7	305	CLA	CHB-C4A-NA	2.49	127.96	124.51
37	D	410	LMG	O1-C1-C2	-2.49	104.42	108.30
42	3	302	A86	C3-C4-C5	-2.49	118.38	123.47
31	p	602	CLA	CHB-C4A-NA	2.49	127.95	124.51
31	4	205	CLA	CAB-C3B-C2B	2.49	129.56	124.69
33	C	516	BCR	C11-C10-C9	-2.49	123.76	127.31
31	3	306	CLA	CHC-C1C-C2C	-2.49	123.86	129.77
44	p	611	DD6	C-C1-C2	-2.49	119.44	122.92
31	B	511	CLA	C1B-CHB-C4A	-2.49	125.19	130.12
33	H	101	BCR	C2-C1-C6	2.49	114.31	110.48
31	B	510	CLA	CHB-C4A-NA	2.48	127.95	124.51
31	5	312	CLA	CHB-C4A-NA	2.48	127.95	124.51
44	3	303	DD6	C3-C2-C1	-2.48	123.76	127.31
31	6	208	CLA	CHB-C4A-NA	2.48	127.95	124.51
44	p	611	DD6	C32-C31-C36	-2.48	119.13	122.63
33	C	515	BCR	C15-C14-C13	-2.48	123.77	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	2	313	CLA	CHB-C4A-NA	2.48	127.94	124.51
31	B	515	CLA	CMB-C2B-C3B	2.48	129.32	124.68
31	b	516	CLA	CMB-C2B-C3B	2.48	129.32	124.68
33	c	516	BCR	C11-C10-C9	-2.48	123.77	127.31
31	4	212	CLA	CHB-C4A-NA	2.48	127.94	124.51
31	P	607	CLA	CHD-C1D-ND	-2.48	122.17	124.45
31	b	504	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
33	d	405	BCR	C27-C26-C25	2.48	126.33	122.73
31	C	513	CLA	CHB-C4A-NA	2.48	127.94	124.51
31	c	513	CLA	CHB-C4A-NA	2.48	127.94	124.51
31	5	305	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
41	V	201	HEM	C1B-NB-C4B	2.48	107.63	105.07
31	7	310	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
31	2	310	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
31	6	206	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
31	0	312	CLA	CHB-C4A-NA	2.47	127.93	124.51
31	1	212	CLA	CHB-C4A-NA	2.47	127.93	124.51
31	B	514	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
31	9	205	CLA	CAB-C3B-C2B	2.47	129.53	124.69
31	0	305	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
31	b	514	CLA	CHB-C4A-NA	2.47	127.93	124.51
44	p	611	DD6	C25-C24-C1	-2.47	119.47	126.42
31	b	512	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
31	9	204	CLA	CBD-CHA-C1A	2.47	131.39	127.43
44	P	611	DD6	C-C1-C2	-2.47	119.46	122.92
31	0	308	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
31	p	602	CLA	O2D-CGD-CBD	2.47	115.66	111.27
31	8	312	CLA	CHB-C4A-NA	2.47	127.93	124.51
31	b	515	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
31	9	206	CLA	C1B-CHB-C4A	-2.47	125.23	130.12
31	0	314	CLA	CHB-C4A-NA	2.47	127.93	124.51
33	k	101	BCR	C24-C23-C22	-2.47	122.50	126.23
31	3	311	CLA	O2D-CGD-O1D	-2.47	118.48	124.09
31	8	311	CLA	O2D-CGD-O1D	-2.47	118.48	124.09
31	3	304	CLA	C4C-C3C-C2C	-2.47	106.16	108.89
31	8	304	CLA	C4C-C3C-C2C	-2.47	106.16	108.89
31	P	602	CLA	O2D-CGD-CBD	2.47	115.65	111.27
31	P	602	CLA	CHB-C4A-NA	2.47	127.92	124.51
31	3	312	CLA	C1B-CHB-C4A	-2.46	125.23	130.12
33	K	101	BCR	C24-C23-C22	-2.46	122.51	126.23
31	3	304	CLA	CHC-C1C-C2C	-2.46	123.91	129.77
42	7	301	A86	C9-C10-C11	-2.46	119.36	126.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	A	404	CLA	CHB-C4A-NA	2.46	127.92	124.51
31	c	503	CLA	CHB-C4A-NA	2.46	127.92	124.51
31	6	210	CLA	CAA-C2A-C3A	-2.46	106.03	112.78
44	3	303	DD6	O1-C20-C21	-2.46	112.11	115.06
42	P	610	A86	C41-C32-C40	2.46	116.09	108.53
42	2	301	A86	C9-C10-C11	-2.46	119.37	126.61
42	p	610	A86	C41-C32-C40	2.46	116.09	108.53
31	1	206	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
31	b	504	CLA	CHB-C4A-NA	2.46	127.92	124.51
42	0	301	A86	C36-C31-C32	-2.46	117.25	119.70
31	b	511	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
31	5	308	CLA	C1B-CHB-C4A	-2.46	125.24	130.12
31	7	310	CLA	CHB-C4A-NA	2.46	127.92	124.51
31	2	310	CLA	CHB-C4A-NA	2.46	127.92	124.51
31	p	608	CLA	CHB-C4A-NA	2.46	127.91	124.51
31	c	507	CLA	CHB-C4A-NA	2.46	127.91	124.51
31	0	310	CLA	CHB-C4A-NA	2.46	127.91	124.51
31	8	304	CLA	CHC-C1C-C2C	-2.46	123.92	129.77
34	B	523	SQD	C4-C3-C2	2.46	115.11	110.82
37	M	101	LMG	C40-C39-C38	-2.46	101.96	114.42
37	m	101	LMG	C40-C39-C38	-2.45	101.96	114.42
31	c	502	CLA	C1B-CHB-C4A	-2.45	125.25	130.12
31	6	210	CLA	O2D-CGD-CBD	2.45	115.63	111.27
31	9	208	CLA	CHA-C1A-NA	-2.45	120.78	126.40
31	7	313	CLA	CHB-C4A-NA	2.45	127.91	124.51
37	d	408	LMG	O6-C1-O1	-2.45	104.17	109.97
31	w	202	CLA	CMD-C2D-C3D	2.45	133.25	127.61
37	J	101	LMG	O3-C3-C2	-2.45	104.68	110.35
31	7	315	CLA	CHB-C4A-NA	2.45	127.90	124.51
31	2	315	CLA	CHB-C4A-NA	2.45	127.90	124.51
33	c	517	BCR	C15-C16-C17	-2.45	118.45	123.47
31	4	204	CLA	CBD-CHA-C1A	2.45	131.35	127.43
31	4	208	CLA	CHB-C4A-NA	2.45	127.90	124.51
31	B	503	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
31	B	510	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
31	C	502	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
41	v	201	HEM	C1B-NB-C4B	2.45	107.60	105.07
31	8	312	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
37	D	408	LMG	O6-C1-O1	-2.45	104.18	109.97
31	5	314	CLA	CHB-C4A-NA	2.45	127.89	124.51
31	B	513	CLA	CHB-C4A-NA	2.44	127.89	124.51
37	j	101	LMG	O3-C3-C2	-2.44	104.70	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	3	309	CLA	CMB-C2B-C1B	-2.44	124.71	128.46
31	3	313	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
31	1	209	CLA	CHB-C4A-NA	2.44	127.89	124.51
33	D	405	BCR	C27-C26-C25	2.44	126.28	122.73
31	a	404	CLA	CHB-C4A-NA	2.44	127.89	124.51
37	D	409	LMG	O1-C7-C8	-2.44	105.01	110.90
33	C	517	BCR	C15-C16-C17	-2.44	118.48	123.47
31	c	503	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
34	A	409	SQD	O48-C23-C24	2.44	119.56	111.91
31	1	210	CLA	O2D-CGD-CBD	2.44	115.60	111.27
44	6	204	DD6	C37-C36-C35	2.44	118.87	114.36
34	b	501	SQD	C4-C3-C2	2.44	115.08	110.82
31	7	314	CLA	CHB-C4A-NA	2.44	127.88	124.51
31	0	304	CLA	CHB-C4A-NA	2.44	127.88	124.51
42	5	317	A86	C9-C10-C11	-2.43	119.45	126.61
33	C	515	BCR	C27-C26-C25	2.43	126.27	122.73
31	4	208	CLA	CHA-C1A-NA	-2.43	120.82	126.40
31	1	210	CLA	CAA-C2A-C3A	-2.43	106.11	112.78
31	C	503	CLA	CHB-C4A-NA	2.43	127.88	124.51
31	5	310	CLA	CHB-C4A-NA	2.43	127.88	124.51
31	1	205	CLA	CHB-C4A-NA	2.43	127.88	124.51
31	9	208	CLA	CHB-C4A-NA	2.43	127.88	124.51
31	6	208	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
33	b	518	BCR	C15-C14-C13	-2.43	123.84	127.31
31	2	312	CLA	CHC-C1C-C2C	-2.43	123.99	129.77
44	8	303	DD6	O1-C20-C21	-2.43	112.14	115.06
42	0	317	A86	C9-C10-C11	-2.43	119.46	126.61
33	a	408	BCR	C33-C5-C6	-2.43	121.80	124.53
34	a	409	SQD	O48-C23-C24	2.43	119.53	111.91
31	B	507	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
31	C	506	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
31	1	211	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
31	1	201	CLA	O2D-CGD-CBD	2.43	115.58	111.27
37	D	408	LMG	O3-C3-C2	-2.43	104.73	110.35
42	P	610	A86	O-C13-C11	-2.43	115.78	121.15
31	6	211	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
33	B	517	BCR	C15-C14-C13	-2.43	123.85	127.31
31	W	202	CLA	CMD-C2D-C3D	2.43	133.19	127.61
31	8	313	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
31	1	201	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
31	1	208	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
31	z	101	CLA	CHB-C4A-NA	2.43	127.87	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	1	213	CLA	CAA-C2A-C3A	-2.43	110.44	116.10
34	b	501	SQD	O8-S-C6	2.42	109.60	105.74
31	2	312	CLA	CHB-C4A-NA	2.42	127.86	124.51
43	0	302	ET4	C02-C03-C04	-2.42	106.99	110.30
31	5	306	CLA	CHB-C4A-NA	2.42	127.86	124.51
31	0	306	CLA	CHB-C4A-NA	2.42	127.86	124.51
33	A	408	BCR	C33-C5-C6	-2.42	121.81	124.53
31	p	604	CLA	O2D-CGD-O1D	-2.42	118.59	124.09
31	P	604	CLA	O2D-CGD-O1D	-2.42	118.59	124.09
31	C	507	CLA	CHB-C4A-NA	2.42	127.86	124.51
33	K	101	BCR	C15-C14-C13	-2.42	123.86	127.31
33	k	101	BCR	C15-C14-C13	-2.42	123.86	127.31
37	d	409	LMG	O1-C7-C8	-2.42	105.06	110.90
31	6	205	CLA	CHB-C4A-NA	2.42	127.86	124.51
31	b	507	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
33	c	517	BCR	C24-C23-C22	-2.42	122.58	126.23
37	d	408	LMG	O3-C3-C2	-2.42	104.76	110.35
31	B	503	CLA	CHB-C4A-NA	2.42	127.85	124.51
34	B	523	SQD	O8-S-C6	2.42	109.59	105.74
33	c	515	BCR	C27-C26-C25	2.42	126.24	122.73
31	D	404	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
31	C	510	CLA	C1B-CHB-C4A	-2.41	125.33	130.12
31	6	213	CLA	CAA-C2A-C3A	-2.41	110.46	116.10
31	b	508	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
36	d	407	LHG	C20-C19-C18	-2.41	102.17	114.42
31	8	309	CLA	CMB-C2B-C1B	-2.41	124.75	128.46
36	D	407	LHG	C20-C19-C18	-2.41	102.18	114.42
33	a	408	BCR	C27-C26-C25	2.41	126.23	122.73
31	c	506	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
31	5	309	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
31	0	310	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
31	7	307	CLA	CHB-C4A-NA	2.41	127.84	124.51
31	2	314	CLA	CHB-C4A-NA	2.41	127.84	124.51
31	6	201	CLA	O2D-CGD-CBD	2.41	115.55	111.27
31	5	310	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
31	7	312	CLA	CHC-C1C-C2C	-2.41	124.04	129.77
44	1	204	DD6	C37-C36-C35	2.41	118.82	114.36
41	f	101	HEM	CMC-C2C-C3C	2.41	129.19	124.68
31	d	404	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
44	7	304	DD6	C7-C6-C5	-2.41	119.55	122.92
31	b	517	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
31	2	306	CLA	CHB-C4A-NA	2.41	127.84	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	5	302	ET4	C02-C03-C04	-2.41	107.01	110.30
42	7	302	A86	C20-C19-C18	2.41	117.51	112.75
31	0	309	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
37	W	201	LMG	C38-C37-C36	-2.41	102.21	114.42
37	w	201	LMG	C38-C37-C36	-2.41	102.21	114.42
31	2	307	CLA	CHB-C4A-NA	2.41	127.84	124.51
31	C	514	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
31	5	306	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
31	0	306	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
31	Z	101	CLA	CHB-C4A-NA	2.41	127.84	124.51
31	B	516	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
31	C	503	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
31	B	511	CLA	CHB-C4A-NA	2.40	127.83	124.51
42	5	301	A86	C36-C31-C32	-2.40	117.31	119.70
39	h	102	DGD	C3G-C2G-C1G	-2.40	106.11	111.79
31	6	201	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
42	p	610	A86	O-C13-C11	-2.40	115.84	121.15
41	F	101	HEM	CMC-C2C-C3C	2.40	129.17	124.68
33	C	516	BCR	C15-C14-C13	-2.40	123.88	127.31
33	C	517	BCR	C24-C23-C22	-2.40	122.61	126.23
31	C	508	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
31	B	514	CLA	CHB-C4A-NA	2.40	127.83	124.51
37	M	101	LMG	C38-C37-C36	-2.40	102.25	114.42
31	b	506	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
42	4	203	A86	C26-C25-C24	-2.40	115.74	123.22
44	2	304	DD6	C7-C6-C5	-2.40	119.56	122.92
44	1	203	DD6	O1-C20-C21	-2.40	112.18	115.06
31	c	508	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
37	m	101	LMG	C38-C37-C36	-2.40	102.26	114.42
31	a	404	CLA	O2D-CGD-CBD	2.40	115.53	111.27
31	3	314	CLA	CMB-C2B-C3B	2.40	129.38	124.69
31	5	304	CLA	CHB-C4A-NA	2.40	127.82	124.51
36	d	407	LHG	O8-C23-C24	2.39	119.42	111.91
31	c	514	CLA	C1B-CHB-C4A	-2.39	125.37	130.12
31	B	505	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
31	P	608	CLA	CHB-C4A-NA	2.39	127.82	124.51
31	8	314	CLA	CMB-C2B-C3B	2.39	129.37	124.69
31	P	608	CLA	O2D-CGD-O1D	-2.39	118.66	124.09
36	d	411	LHG	C11-C10-C9	-2.39	102.28	114.42
42	9	201	A86	C12-C11-C13	2.39	120.04	116.02
44	8	303	DD6	C26-C25-C24	-2.39	115.75	123.22
39	H	102	DGD	C3G-C2G-C1G	-2.39	106.13	111.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	2	302	A86	C20-C19-C18	2.39	117.48	112.75
31	B	506	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
31	B	512	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
31	c	510	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
33	H	101	BCR	C27-C26-C25	2.39	126.20	122.73
31	7	306	CLA	CHB-C4A-NA	2.39	127.82	124.51
31	b	513	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
36	D	411	LHG	C11-C10-C9	-2.39	102.30	114.42
31	6	209	CLA	CHB-C4A-NA	2.39	127.81	124.51
31	B	514	CLA	C1-C2-C3	-2.39	121.92	126.04
31	b	515	CLA	CHB-C4A-NA	2.39	127.81	124.51
33	b	520	BCR	C24-C23-C22	-2.38	122.63	126.23
36	A	412	LHG	C11-C10-C9	-2.38	102.32	114.42
36	a	411	LHG	C11-C10-C9	-2.38	102.32	114.42
31	D	404	CLA	C1-C2-C3	-2.38	121.92	126.04
31	b	515	CLA	C1-C2-C3	-2.38	121.92	126.04
31	9	204	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
36	D	407	LHG	O8-C23-C24	2.38	119.38	111.91
33	c	516	BCR	C15-C14-C13	-2.38	123.91	127.31
42	9	203	A86	C26-C25-C24	-2.38	115.79	123.22
33	B	518	BCR	C27-C26-C25	2.38	126.19	122.73
44	3	303	DD6	C26-C25-C24	-2.38	115.79	123.22
31	A	407	CLA	C1-C2-C3	-2.38	121.93	126.04
33	B	519	BCR	C24-C23-C22	-2.38	122.64	126.23
31	b	503	CLA	CHB-C4A-NA	2.38	127.80	124.51
34	0	316	SQD	O48-C23-C24	2.38	119.37	111.91
31	b	512	CLA	CHB-C4A-NA	2.38	127.80	124.51
37	b	521	LMG	O3-C3-C2	-2.38	104.86	110.35
31	b	516	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
44	7	303	DD6	O1-C20-C21	-2.37	112.21	115.06
31	B	515	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
31	c	513	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
31	a	407	CLA	C1-C2-C3	-2.37	121.94	126.04
31	C	513	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
44	2	303	DD6	O1-C20-C21	-2.37	112.22	115.06
31	6	201	CLA	CHB-C4A-NA	2.37	127.79	124.51
37	B	520	LMG	O3-C3-C2	-2.37	104.87	110.35
33	K	101	BCR	C27-C26-C25	2.37	126.17	122.73
33	b	519	BCR	C27-C26-C25	2.37	126.17	122.73
31	p	608	CLA	O2D-CGD-O1D	-2.37	118.72	124.09
31	d	404	CLA	C1-C2-C3	-2.37	121.95	126.04
31	6	205	CLA	C1B-CHB-C4A	-2.37	125.43	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	5	316	SQD	O48-C23-C24	2.37	119.33	111.91
31	2	316	CLA	CHB-C4A-NA	2.37	127.78	124.51
31	A	404	CLA	O2D-CGD-CBD	2.36	115.47	111.27
33	A	408	BCR	C27-C26-C25	2.36	126.16	122.73
33	k	101	BCR	C27-C26-C25	2.36	126.16	122.73
31	1	205	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
31	6	213	CLA	CHB-C4A-NA	2.36	127.78	124.51
31	z	101	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
31	8	304	CLA	CMB-C2B-C1B	-2.36	124.83	128.46
33	c	517	BCR	C15-C14-C13	-2.36	123.94	127.31
41	V	201	HEM	C4A-C3A-C2A	2.36	108.64	107.00
37	w	201	LMG	C40-C39-C38	-2.36	102.44	114.42
31	b	514	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
33	h	101	BCR	C27-C26-C25	2.36	126.15	122.73
37	Y	101	LMG	C38-C37-C36	-2.36	102.46	114.42
31	B	502	CLA	CHB-C4A-NA	2.36	127.77	124.51
31	7	316	CLA	CHB-C4A-NA	2.36	127.77	124.51
31	p	608	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
33	B	518	BCR	C33-C5-C6	-2.36	121.88	124.53
37	W	201	LMG	C40-C39-C38	-2.36	102.47	114.42
31	5	307	CLA	C1B-CHB-C4A	-2.35	125.45	130.12
35	A	410	PL9	C21-C22-C23	-2.35	107.51	112.59
31	7	314	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
42	4	201	A86	C12-C11-C13	2.35	119.97	116.02
31	b	502	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
37	y	101	LMG	C38-C37-C36	-2.35	102.49	114.42
44	6	203	DD6	O1-C20-C21	-2.35	112.24	115.06
31	2	316	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
31	1	201	CLA	CHB-C4A-NA	2.35	127.76	124.51
36	A	412	LHG	C27-C26-C25	-2.35	102.50	114.42
35	d	406	PL9	C12-C13-C14	-2.35	122.00	127.66
33	C	517	BCR	C15-C14-C13	-2.35	123.96	127.31
31	4	204	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
36	a	411	LHG	C27-C26-C25	-2.35	102.50	114.42
35	a	410	PL9	C21-C22-C23	-2.35	107.52	112.59
31	p	604	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
31	b	514	CLA	C1-C2-C3	-2.35	121.98	126.04
31	3	304	CLA	CMB-C2B-C1B	-2.35	124.86	128.46
42	8	302	A86	C26-C25-C24	-2.35	115.89	123.22
35	D	406	PL9	C12-C13-C14	-2.35	122.01	127.66
31	Z	101	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
31	P	604	CLA	C1B-CHB-C4A	-2.35	125.47	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	7	316	CLA	CHD-C1D-ND	-2.34	122.30	124.45
42	3	302	A86	C26-C25-C24	-2.34	115.90	123.22
31	C	506	CLA	CHB-C4A-NA	2.34	127.75	124.51
41	v	201	HEM	C3D-C4D-ND	-2.34	107.56	110.17
31	7	316	CLA	C1B-CHB-C4A	-2.34	125.47	130.12
31	1	213	CLA	C1B-CHB-C4A	-2.34	125.47	130.12
35	D	406	PL9	C37-C38-C39	-2.34	122.02	127.66
31	4	212	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
41	V	201	HEM	C3D-C4D-ND	-2.34	107.56	110.17
31	9	212	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
31	B	513	CLA	C1-C2-C3	-2.34	122.00	126.04
31	B	504	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
31	3	304	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
32	a	405	PHO	CMC-C2C-C3C	2.34	129.35	124.94
42	5	317	A86	C9-C8-C6	-2.34	119.85	126.42
31	6	213	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
42	0	317	A86	C9-C8-C6	-2.34	119.85	126.42
31	2	308	CLA	CHB-C4A-NA	2.34	127.74	124.51
31	1	213	CLA	CHB-C4A-NA	2.34	127.74	124.51
31	c	509	CLA	O2D-CGD-CBD	2.34	115.42	111.27
37	5	315	LMG	C38-C37-C36	-2.34	102.56	114.42
37	0	315	LMG	C38-C37-C36	-2.34	102.56	114.42
33	b	519	BCR	C33-C5-C6	-2.34	121.91	124.53
31	B	501	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
33	C	515	BCR	C11-C10-C9	-2.33	123.98	127.31
44	7	304	DD6	C-C1-C24	2.33	121.75	118.08
31	2	309	CLA	CHB-C4A-NA	2.33	127.74	124.51
31	8	310	CLA	C1B-CHB-C4A	-2.33	125.49	130.12
31	2	308	CLA	C1B-CHB-C4A	-2.33	125.49	130.12
31	P	608	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
31	2	316	CLA	CHD-C1D-ND	-2.33	122.31	124.45
31	7	308	CLA	CHB-C4A-NA	2.33	127.74	124.51
31	b	505	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
31	C	509	CLA	O2D-CGD-CBD	2.33	115.41	111.27
31	B	513	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
31	0	308	CLA	O2A-CGA-O1A	-2.33	117.72	123.59
31	9	207	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
35	d	406	PL9	C37-C38-C39	-2.32	122.06	127.66
31	5	308	CLA	CHB-C4A-NA	2.32	127.73	124.51
41	v	201	HEM	C4C-CHD-C1D	2.32	125.62	122.56
31	8	304	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
31	7	308	CLA	C1B-CHB-C4A	-2.32	125.52	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	d	407	LHG	C27-C26-C25	-2.32	102.63	114.42
41	f	101	HEM	CBA-CAA-C2A	-2.32	108.66	112.62
36	d	407	LHG	C18-C17-C16	-2.32	102.64	114.42
37	m	102	LMG	O1-C7-C8	-2.32	105.30	110.90
36	D	407	LHG	C27-C26-C25	-2.32	102.64	114.42
31	5	313	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
36	D	407	LHG	C18-C17-C16	-2.32	102.65	114.42
31	4	213	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
31	0	313	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
42	4	202	A86	C23-C16-C17	-2.32	104.95	108.98
31	2	307	CLA	CHD-C1D-ND	-2.32	122.32	124.45
31	c	506	CLA	CHB-C4A-NA	2.32	127.72	124.51
42	9	202	A86	C23-C16-C17	-2.32	104.96	108.98
31	3	310	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
31	2	314	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
31	4	207	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
42	9	203	A86	O-C13-C11	-2.32	116.03	121.15
33	b	519	BCR	C11-C10-C9	-2.31	124.01	127.31
31	a	403	CLA	O2D-CGD-CBD	2.31	115.38	111.27
37	M	102	LMG	O1-C7-C8	-2.31	105.32	110.90
31	6	214	CLA	CMA-C3A-C2A	-2.31	110.70	116.10
31	D	401	CLA	C1-C2-C3	-2.31	122.04	126.04
44	2	304	DD6	C-C1-C24	2.31	121.72	118.08
32	A	405	PHO	CMC-C2C-C3C	2.31	129.30	124.94
37	b	521	LMG	O1-C7-C8	-2.31	105.32	110.90
31	0	307	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
31	A	403	CLA	O2D-CGD-CBD	2.31	115.37	111.27
41	F	101	HEM	CBA-CAA-C2A	-2.31	108.68	112.62
33	B	518	BCR	C11-C10-C9	-2.31	124.02	127.31
33	c	515	BCR	C11-C10-C9	-2.31	124.02	127.31
31	1	214	CLA	CMA-C3A-C2A	-2.31	110.71	116.10
31	d	403	CLA	CHB-C4A-NA	2.31	127.70	124.51
42	4	203	A86	O-C13-C11	-2.31	116.05	121.15
34	B	522	SQD	C1-C2-C3	2.31	114.80	110.00
37	d	410	LMG	O3-C3-C2	-2.31	105.02	110.35
31	3	307	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
41	V	201	HEM	C4C-CHD-C1D	2.31	125.60	122.56
31	5	308	CLA	O2A-CGA-O1A	-2.30	117.78	123.59
37	M	102	LMG	O3-C3-C2	-2.30	105.02	110.35
31	9	210	CLA	C1B-CHB-C4A	-2.30	125.55	130.12
37	B	520	LMG	O1-C7-C8	-2.30	105.34	110.90
37	0	315	LMG	C40-C39-C38	-2.30	102.73	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	D	410	LMG	O3-C3-C2	-2.30	105.03	110.35
42	3	302	A86	C10-C9-C8	-2.30	116.03	123.22
31	6	214	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
31	0	312	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
31	1	212	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
31	1	214	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
36	B	521	LHG	C18-C17-C16	-2.30	102.74	114.42
36	b	522	LHG	C18-C17-C16	-2.30	102.74	114.42
41	v	201	HEM	C4A-C3A-C2A	2.30	108.60	107.00
39	C	519	DGD	O3E-C3E-C2E	-2.30	105.03	110.35
31	6	212	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
42	8	302	A86	C10-C9-C8	-2.30	116.04	123.22
37	5	315	LMG	C40-C39-C38	-2.30	102.75	114.42
31	d	401	CLA	C1-C2-C3	-2.30	122.06	126.04
34	A	411	SQD	C1-C2-C3	2.30	114.79	110.00
31	9	213	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
31	c	511	CLA	CHB-C4A-NA	2.30	127.69	124.51
31	7	307	CLA	CHD-C1D-ND	-2.30	122.34	124.45
31	1	209	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
31	0	308	CLA	CHB-C4A-NA	2.30	127.69	124.51
31	5	312	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
31	7	311	CLA	CHB-C4A-NA	2.30	127.69	124.51
40	D	402	BCT	O3-C-O1	-2.29	113.59	119.55
31	D	403	CLA	CHB-C4A-NA	2.29	127.68	124.51
39	C	518	DGD	C3G-C2G-C1G	-2.29	106.36	111.79
44	1	204	DD6	C12-C11-C10	-2.29	119.71	122.92
31	4	210	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
39	c	518	DGD	C3G-C2G-C1G	-2.29	106.36	111.79
31	C	510	CLA	O2A-CGA-O1A	-2.29	117.81	123.59
31	P	601	CLA	CHD-C1D-ND	-2.29	122.35	124.45
42	0	317	A86	O4-C34-C35	2.29	113.30	107.59
42	8	302	A86	C36-C31-C32	-2.29	117.42	119.70
31	A	403	CLA	O2D-CGD-O1D	-2.29	119.36	123.84
31	c	510	CLA	O2A-CGA-O1A	-2.29	117.81	123.59
39	c	519	DGD	O3E-C3E-C2E	-2.29	105.06	110.35
31	7	311	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
31	4	209	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
31	7	309	CLA	CHB-C4A-NA	2.29	127.67	124.51
44	6	204	DD6	C12-C11-C10	-2.29	119.72	122.92
31	6	209	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
37	Y	101	LMG	O1-C7-C8	-2.28	105.39	110.90
31	2	311	CLA	CHB-C4A-NA	2.28	127.67	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	A	410	PL9	C20-C19-C21	2.28	119.11	115.27
31	C	511	CLA	CHB-C4A-NA	2.28	127.67	124.51
37	D	408	LMG	C1-C2-C3	-2.28	105.25	110.00
42	5	317	A86	O4-C34-C35	2.28	113.27	107.59
31	9	209	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
31	1	216	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
31	B	516	CLA	C1-C2-C3	-2.28	122.10	126.04
42	7	301	A86	C9-C8-C6	-2.28	120.01	126.42
33	D	405	BCR	C15-C16-C17	-2.28	118.81	123.47
40	d	402	BCT	O3-C-O1	-2.28	113.63	119.55
39	h	102	DGD	CBB-CAB-C9B	-2.28	102.86	114.42
37	y	101	LMG	O1-C7-C8	-2.28	105.40	110.90
35	a	410	PL9	C20-C19-C21	2.28	119.10	115.27
31	6	207	CLA	CHB-C4A-NA	2.28	127.66	124.51
31	8	307	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
37	M	102	LMG	O2-C2-C1	-2.28	104.52	110.05
33	d	405	BCR	C15-C16-C17	-2.28	118.81	123.47
37	w	201	LMG	O3-C3-C2	-2.28	105.09	110.35
35	D	406	PL9	C31-C32-C33	-2.28	104.40	111.88
37	m	102	LMG	O3-C3-C2	-2.27	105.09	110.35
37	d	408	LMG	C6-C5-C4	-2.27	107.68	113.00
31	a	403	CLA	O2D-CGD-O1D	-2.27	119.39	123.84
37	m	102	LMG	O2-C2-C1	-2.27	104.52	110.05
44	2	304	DD6	C8-C6-C5	2.27	122.43	118.94
31	B	504	CLA	O2D-CGD-CBD	2.27	115.31	111.27
31	5	311	CLA	C1B-CHB-C4A	-2.27	125.61	130.12
31	p	602	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
35	d	406	PL9	C31-C32-C33	-2.27	104.41	111.88
31	b	517	CLA	C1-C2-C3	-2.27	122.11	126.04
31	W	202	CLA	CHB-C4A-NA	2.27	127.65	124.51
33	B	519	BCR	C28-C27-C26	-2.27	110.02	114.08
39	H	102	DGD	CBB-CAB-C9B	-2.27	102.90	114.42
31	p	601	CLA	CHD-C1D-ND	-2.27	122.37	124.45
31	8	311	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
33	a	408	BCR	C15-C14-C13	-2.26	124.08	127.31
37	d	408	LMG	C1-C2-C3	-2.26	105.28	110.00
31	0	311	CLA	C1B-CHB-C4A	-2.26	125.63	130.12
37	D	408	LMG	C6-C5-C4	-2.26	107.70	113.00
31	c	510	CLA	C1-C2-C3	-2.26	122.13	126.04
31	1	207	CLA	CHB-C4A-NA	2.26	127.64	124.51
31	7	312	CLA	C1B-CHB-C4A	-2.26	125.63	130.12
31	3	311	CLA	C1B-CHB-C4A	-2.26	125.63	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	2	301	A86	C9-C8-C6	-2.26	120.06	126.42
31	2	311	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
37	W	201	LMG	O3-C3-C2	-2.26	105.12	110.35
31	6	216	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
42	6	202	A86	C25-C24-C1	-2.26	120.07	126.42
44	1	203	DD6	C9-C8-C6	-2.26	120.07	126.42
31	C	510	CLA	C1-C2-C3	-2.26	122.13	126.04
31	b	505	CLA	O2D-CGD-CBD	2.26	115.28	111.27
33	b	520	BCR	C28-C27-C26	-2.26	110.04	114.08
37	Y	101	LMG	C40-C39-C38	-2.26	102.96	114.42
31	C	504	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
44	6	203	DD6	C9-C8-C6	-2.26	120.07	126.42
31	P	602	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
31	2	312	CLA	C1C-NC-C4C	2.26	107.72	106.71
44	2	303	DD6	C37-C36-C35	2.26	118.54	114.36
31	c	503	CLA	C1-C2-C3	-2.26	122.14	126.04
31	C	503	CLA	C1-C2-C3	-2.25	122.14	126.04
31	c	504	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
31	0	304	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
31	C	512	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
31	6	215	CLA	C1B-CHB-C4A	-2.25	125.65	130.12
31	7	315	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
33	A	408	BCR	C15-C14-C13	-2.25	124.09	127.31
31	w	202	CLA	CHB-C4A-NA	2.25	127.63	124.51
31	0	314	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
31	2	315	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
37	y	101	LMG	C40-C39-C38	-2.25	103.00	114.42
31	c	512	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
37	b	521	LMG	C6-C5-C4	-2.25	107.73	113.00
31	1	215	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
44	1	203	DD6	C24-C1-C2	2.25	122.39	118.94
31	4	205	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
31	9	205	CLA	C1B-CHB-C4A	-2.25	125.67	130.12
42	3	302	A86	C36-C31-C32	-2.25	117.47	119.70
31	2	313	CLA	C1B-CHB-C4A	-2.25	125.67	130.12
42	6	202	A86	C26-C25-C24	-2.25	116.21	123.22
42	4	202	A86	O-C13-C11	-2.25	116.19	121.15
37	M	101	LMG	O2-C2-C1	-2.25	104.59	110.05
44	7	303	DD6	C9-C8-C6	-2.24	120.11	126.42
44	7	304	DD6	C26-C25-C24	-2.24	116.21	123.22
44	2	304	DD6	C26-C25-C24	-2.24	116.21	123.22
33	C	516	BCR	C33-C5-C6	-2.24	122.01	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	c	516	BCR	C33-C5-C6	-2.24	122.01	124.53
31	B	506	CLA	O2A-CGA-O1A	-2.24	117.93	123.59
37	m	101	LMG	O2-C2-C1	-2.24	104.60	110.05
31	7	305	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
37	B	520	LMG	C6-C5-C4	-2.24	107.76	113.00
31	5	314	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
37	m	101	LMG	O3-C3-C2	-2.24	105.17	110.35
31	3	308	CLA	CHA-C1A-NA	-2.24	122.59	125.08
42	1	202	A86	C25-C24-C1	-2.24	120.13	126.42
44	1	203	DD6	C37-C36-C35	2.24	118.50	114.36
31	5	304	CLA	C1B-CHB-C4A	-2.24	125.69	130.12
39	C	518	DGD	C1D-C2D-C3D	-2.24	105.34	110.00
44	7	303	DD6	C37-C36-C35	2.24	118.50	114.36
31	b	503	CLA	CHD-C1D-ND	-2.24	122.40	124.45
39	c	518	DGD	C1D-C2D-C3D	-2.24	105.34	110.00
44	7	304	DD6	C8-C6-C5	2.24	122.37	118.94
31	7	313	CLA	C1B-CHB-C4A	-2.24	125.69	130.12
31	2	305	CLA	C1B-CHB-C4A	-2.23	125.69	130.12
31	2	306	CLA	C1B-CHB-C4A	-2.23	125.69	130.12
33	B	519	BCR	C37-C22-C21	-2.23	119.80	122.92
31	8	308	CLA	CHA-C1A-NA	-2.23	122.60	125.08
44	2	303	DD6	C9-C8-C6	-2.23	120.15	126.42
31	b	507	CLA	O2A-CGA-O1A	-2.23	117.96	123.59
33	b	520	BCR	C37-C22-C21	-2.23	119.80	122.92
37	M	101	LMG	O1-C1-C2	-2.23	104.82	108.30
37	d	409	LMG	O3-C3-C2	-2.23	105.20	110.35
33	c	516	BCR	C27-C26-C25	2.23	125.97	122.73
44	7	304	DD6	C12-C11-C10	-2.23	119.80	122.92
44	2	304	DD6	C12-C11-C10	-2.23	119.80	122.92
39	c	520	DGD	O1G-C1A-C2A	2.23	118.89	111.91
37	M	101	LMG	O3-C3-C2	-2.23	105.20	110.35
42	5	301	A86	C-C1-C2	-2.23	119.81	122.92
39	C	520	DGD	O1G-C1A-C2A	2.22	118.89	111.91
33	C	515	BCR	C7-C8-C9	-2.22	122.88	126.23
33	C	515	BCR	C33-C5-C6	-2.22	122.03	124.53
31	C	511	CLA	C1-C2-C3	-2.22	122.20	126.04
31	5	308	CLA	C1-C2-C3	-2.22	122.20	126.04
44	6	203	DD6	C37-C36-C35	2.22	118.47	114.36
31	2	312	CLA	C1B-CHB-C4A	-2.22	125.72	130.12
44	2	303	DD6	C24-C1-C2	2.22	122.35	118.94
42	0	303	A86	C9-C8-C6	-2.22	120.18	126.42
44	7	304	DD6	C3-C4-C5	-2.22	118.93	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	m	101	LMG	O1-C1-C2	-2.22	104.84	108.30
44	7	303	DD6	C24-C1-C2	2.22	122.35	118.94
31	3	309	CLA	O2D-CGD-O1D	-2.22	119.05	124.09
42	5	303	A86	C9-C8-C6	-2.22	120.18	126.42
42	3	301	A86	C4-C3-C2	-2.22	118.93	123.47
42	9	202	A86	O-C13-C11	-2.22	116.25	121.15
31	8	309	CLA	O2D-CGD-O1D	-2.21	119.06	124.09
42	1	202	A86	C26-C25-C24	-2.21	116.31	123.22
31	b	513	CLA	CMA-C3A-C2A	-2.21	110.93	116.10
39	c	518	DGD	C4E-C3E-C2E	-2.21	106.96	110.82
31	B	512	CLA	CMA-C3A-C2A	-2.21	110.93	116.10
44	6	203	DD6	C24-C1-C2	2.21	122.34	118.94
44	2	304	DD6	C3-C4-C5	-2.21	118.94	123.47
31	p	608	CLA	CAC-C3C-C4C	2.21	127.68	124.81
41	f	101	HEM	C1B-NB-C4B	2.21	107.36	105.07
37	D	409	LMG	O1-C1-C2	-2.21	104.85	108.30
31	0	308	CLA	C1-C2-C3	-2.21	122.22	126.04
42	3	302	A86	C40-C32-C31	2.21	112.45	110.47
31	p	609	CLA	C1B-CHB-C4A	-2.21	125.74	130.12
37	d	409	LMG	O1-C1-C2	-2.21	104.85	108.30
37	W	201	LMG	O7-C10-O9	-2.21	118.36	123.70
31	c	511	CLA	CHD-C1D-ND	-2.21	122.42	124.45
42	8	301	A86	C4-C3-C2	-2.21	118.95	123.47
33	C	516	BCR	C27-C26-C25	2.21	125.94	122.73
37	Y	101	LMG	O2-C2-C1	-2.21	104.68	110.05
31	6	208	CLA	O2A-CGA-O1A	-2.21	118.02	123.59
31	7	306	CLA	C1B-CHB-C4A	-2.21	125.75	130.12
37	D	409	LMG	O3-C3-C2	-2.21	105.25	110.35
31	3	306	CLA	C1B-CHB-C4A	-2.21	125.75	130.12
42	0	301	A86	C-C1-C2	-2.21	119.83	122.92
37	y	101	LMG	O2-C2-C1	-2.20	104.69	110.05
39	C	518	DGD	C4E-C3E-C2E	-2.20	106.97	110.82
31	B	502	CLA	CHD-C1D-ND	-2.20	122.43	124.45
33	c	517	BCR	C37-C22-C21	-2.20	119.84	122.92
31	5	310	CLA	O2A-CGA-O1A	-2.20	118.03	123.59
39	h	102	DGD	CAB-C9B-C8B	-2.20	103.25	114.42
31	5	307	CLA	C1-C2-C3	-2.20	122.23	126.04
31	0	307	CLA	C1-C2-C3	-2.20	122.23	126.04
34	A	411	SQD	O48-C23-C24	2.20	118.82	111.91
31	c	511	CLA	C1-C2-C3	-2.20	122.24	126.04
33	C	517	BCR	C37-C22-C21	-2.20	119.84	122.92
31	P	609	CLA	C1B-CHB-C4A	-2.20	125.76	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	2	310	CLA	O2A-CGA-O1A	-2.20	118.04	123.59
31	8	306	CLA	C1B-CHB-C4A	-2.20	125.76	130.12
34	B	522	SQD	O48-C23-C24	2.20	118.81	111.91
33	c	515	BCR	C33-C5-C6	-2.20	122.06	124.53
31	C	511	CLA	CHD-C1D-ND	-2.20	122.43	124.45
31	C	504	CLA	O2A-CGA-O1A	-2.20	118.05	123.59
33	h	101	BCR	C3-C4-C5	-2.20	110.15	114.08
35	d	406	PL9	O1-C4-C3	-2.20	118.30	120.72
37	J	101	LMG	O1-C1-C2	-2.20	104.87	108.30
31	1	208	CLA	O2A-CGA-O1A	-2.20	118.05	123.59
31	7	310	CLA	O2A-CGA-O1A	-2.20	118.05	123.59
31	7	305	CLA	O2D-CGD-CBD	2.20	115.17	111.27
31	2	305	CLA	O2D-CGD-CBD	2.20	115.17	111.27
33	c	516	BCR	C15-C16-C17	-2.20	118.98	123.47
31	0	310	CLA	O2A-CGA-O1A	-2.19	118.05	123.59
31	w	202	CLA	O2D-CGD-CBD	2.19	115.17	111.27
33	h	101	BCR	C7-C8-C9	-2.19	122.92	126.23
42	9	203	A86	C3-C4-C5	-2.19	118.98	123.47
39	H	102	DGD	CAB-C9B-C8B	-2.19	103.29	114.42
31	4	208	CLA	C1B-CHB-C4A	-2.19	125.77	130.12
37	w	201	LMG	O7-C10-O9	-2.19	118.40	123.70
42	0	303	A86	C25-C26-C27	-2.19	124.18	127.31
33	H	101	BCR	C3-C4-C5	-2.19	110.16	114.08
42	4	203	A86	C3-C4-C5	-2.19	118.98	123.47
42	4	202	A86	C33-C32-C31	-2.19	107.08	109.21
31	D	401	CLA	CHD-C1D-ND	-2.19	122.44	124.45
31	d	401	CLA	CHD-C1D-ND	-2.19	122.44	124.45
37	y	101	LMG	O3-C3-C2	-2.19	105.28	110.35
33	c	515	BCR	C7-C8-C9	-2.19	122.93	126.23
31	B	516	CLA	O2A-CGA-O1A	-2.19	118.07	123.59
31	P	601	CLA	C1B-CHB-C4A	-2.19	125.78	130.12
36	b	522	LHG	C27-C26-C25	-2.19	103.31	114.42
37	Y	101	LMG	O3-C3-C2	-2.19	105.29	110.35
42	3	301	A86	C9-C8-C6	-2.19	120.27	126.42
42	8	301	A86	C9-C8-C6	-2.19	120.27	126.42
31	P	603	CLA	C1B-CHB-C4A	-2.19	125.78	130.12
31	c	504	CLA	O2A-CGA-O1A	-2.19	118.07	123.59
44	7	303	DD6	C8-C6-C5	2.19	122.30	118.94
42	5	303	A86	C25-C26-C27	-2.19	124.19	127.31
31	p	601	CLA	C1B-CHB-C4A	-2.19	125.79	130.12
37	Y	101	LMG	O1-C1-C2	-2.19	104.89	108.30
37	j	101	LMG	O1-C1-C2	-2.19	104.89	108.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	p	610	A86	C41-C32-C33	-2.19	99.24	109.05
31	p	602	CLA	CHD-C1D-ND	-2.19	122.45	124.45
31	p	603	CLA	C1B-CHB-C4A	-2.18	125.79	130.12
42	P	610	A86	C41-C32-C33	-2.18	99.24	109.05
31	b	517	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
37	y	101	LMG	O1-C1-C2	-2.18	104.89	108.30
41	F	101	HEM	C1B-NB-C4B	2.18	107.33	105.07
31	W	202	CLA	O2D-CGD-CBD	2.18	115.15	111.27
42	8	302	A86	C40-C32-C31	2.18	112.42	110.47
33	C	516	BCR	C15-C16-C17	-2.18	119.01	123.47
33	H	101	BCR	C24-C23-C22	-2.18	122.94	126.23
31	P	608	CLA	CAC-C3C-C4C	2.18	127.64	124.81
36	B	521	LHG	C27-C26-C25	-2.18	103.36	114.42
37	j	101	LMG	O2-C2-C1	-2.18	104.75	110.05
31	8	305	CLA	C1B-CHB-C4A	-2.18	125.80	130.12
37	J	101	LMG	O2-C2-C1	-2.18	104.76	110.05
31	1	211	CLA	C1-C2-C3	-2.18	122.28	126.04
44	2	303	DD6	C8-C6-C5	2.18	122.28	118.94
42	2	301	A86	C26-C25-C24	-2.18	116.42	123.22
31	1	206	CLA	CMC-C2C-C1C	2.17	128.35	125.04
31	9	206	CLA	CHB-C4A-NA	2.17	127.52	124.51
33	b	520	BCR	C15-C14-C13	-2.17	124.21	127.31
33	H	101	BCR	C7-C8-C9	-2.17	122.95	126.23
31	6	211	CLA	C1-C2-C3	-2.17	122.28	126.04
42	7	301	A86	C26-C25-C24	-2.17	116.44	123.22
31	4	213	CLA	CBD-CHA-C1A	2.17	130.36	128.06
42	3	302	A86	C23-C16-C17	-2.17	105.21	108.98
31	3	305	CLA	C1B-CHB-C4A	-2.17	125.82	130.12
39	C	518	DGD	CAB-C9B-C8B	-2.17	103.40	114.42
31	6	206	CLA	CMC-C2C-C1C	2.17	128.34	125.04
42	9	202	A86	C33-C32-C31	-2.17	107.10	109.21
39	c	518	DGD	CAB-C9B-C8B	-2.17	103.42	114.42
31	4	209	CLA	CHD-C1D-ND	-2.17	122.46	124.45
35	a	410	PL9	O2-C1-C6	2.17	124.34	120.59
33	C	516	BCR	C37-C22-C21	-2.17	119.89	122.92
42	8	302	A86	C23-C16-C17	-2.17	105.22	108.98
31	8	314	CLA	CMA-C3A-C2A	-2.16	111.05	116.10
31	9	209	CLA	CHD-C1D-ND	-2.16	122.47	124.45
31	4	206	CLA	CHB-C4A-NA	2.16	127.50	124.51
37	w	201	LMG	O2-C2-C1	-2.16	104.79	110.05
37	w	201	LMG	C1-C2-C3	-2.16	105.49	110.00
44	6	203	DD6	C8-C6-C5	2.16	122.26	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	A	408	BCR	C24-C23-C22	-2.16	122.97	126.23
31	3	314	CLA	CMA-C3A-C2A	-2.16	111.06	116.10
31	9	208	CLA	C1B-CHB-C4A	-2.16	125.84	130.12
33	B	519	BCR	C15-C14-C13	-2.16	124.23	127.31
33	h	101	BCR	C24-C23-C22	-2.16	122.98	126.23
31	9	213	CLA	CBD-CHA-C1A	2.15	130.34	128.06
42	3	302	A86	O-C13-C11	-2.15	116.39	121.15
37	y	101	LMG	C3-C4-C5	-2.15	106.40	110.24
31	1	211	CLA	O2A-CGA-O1A	-2.15	118.16	123.59
44	3	303	DD6	C21-C20-C15	-2.15	118.66	122.26
44	1	203	DD6	C8-C6-C5	2.15	122.24	118.94
37	Y	101	LMG	C3-C4-C5	-2.15	106.41	110.24
35	D	406	PL9	O1-C4-C3	-2.15	118.35	120.72
33	a	408	BCR	C24-C23-C22	-2.15	122.99	126.23
35	A	410	PL9	O2-C1-C6	2.15	124.31	120.59
37	5	315	LMG	O3-C3-C2	-2.15	105.39	110.35
33	b	520	BCR	C20-C21-C22	-2.15	124.25	127.31
42	9	202	A86	C19-C18-C17	-2.15	106.63	110.77
31	3	310	CLA	C4C-C3C-C2C	-2.15	106.51	108.89
31	8	312	CLA	CAA-C2A-C3A	-2.15	108.90	114.26
37	w	201	LMG	O6-C1-O1	-2.15	104.89	109.97
33	d	405	BCR	C33-C5-C6	-2.15	122.12	124.53
37	W	201	LMG	O6-C1-O1	-2.15	104.89	109.97
37	0	315	LMG	O3-C3-C2	-2.14	105.39	110.35
31	0	309	CLA	CMA-C3A-C2A	-2.14	111.10	116.10
37	W	201	LMG	C1-C2-C3	-2.14	105.53	110.00
33	d	405	BCR	C7-C8-C9	-2.14	123.00	126.23
31	8	310	CLA	C4C-C3C-C2C	-2.14	106.52	108.89
37	W	201	LMG	O2-C2-C1	-2.14	104.84	110.05
42	5	301	A86	O-C13-C14	-2.14	117.31	121.66
42	8	302	A86	O-C13-C11	-2.14	116.42	121.15
35	D	406	PL9	O2-C1-C6	2.14	124.30	120.59
34	0	316	SQD	O5-C5-C4	2.14	113.58	109.69
31	3	314	CLA	C1B-CHB-C4A	-2.14	125.88	130.12
42	0	301	A86	O-C13-C14	-2.14	117.31	121.66
35	d	406	PL9	O2-C1-C6	2.14	124.29	120.59
34	5	316	SQD	O5-C5-C4	2.14	113.57	109.69
33	c	517	BCR	C11-C10-C9	-2.14	124.26	127.31
33	H	101	BCR	C15-C16-C17	-2.14	119.10	123.47
31	b	509	CLA	O2A-CGA-O1A	-2.14	118.20	123.59
31	3	312	CLA	CAA-C2A-C3A	-2.13	108.93	114.26
39	C	519	DGD	CAB-C9B-C8B	-2.13	103.59	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	C	519	DGD	C5B-C4B-C3B	-2.13	103.60	114.42
44	8	303	DD6	C21-C20-C15	-2.13	118.69	122.26
37	y	101	LMG	O8-C28-O10	-2.13	118.21	123.59
31	6	211	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
39	c	519	DGD	C5B-C4B-C3B	-2.13	103.61	114.42
39	c	519	DGD	CAB-C9B-C8B	-2.13	103.61	114.42
37	b	521	LMG	O2-C2-C1	-2.13	104.87	110.05
39	C	519	DGD	C1D-C2D-C3D	-2.13	105.56	110.00
36	D	412	LHG	C27-C26-C25	-2.13	103.61	114.42
37	B	520	LMG	O2-C2-C1	-2.13	104.88	110.05
37	0	315	LMG	C42-C41-C40	-2.13	103.63	114.42
31	7	312	CLA	C1C-NC-C4C	2.13	107.66	106.71
33	D	405	BCR	C7-C8-C9	-2.13	123.02	126.23
42	5	317	A86	C12-C11-C13	2.13	119.59	116.02
42	0	317	A86	C12-C11-C13	2.13	119.59	116.02
31	8	314	CLA	C1B-CHB-C4A	-2.13	125.91	130.12
31	9	208	CLA	CAA-C2A-C3A	-2.13	111.14	116.10
32	a	406	PHO	CMC-C2C-C3C	2.13	128.95	124.94
31	5	309	CLA	CMA-C3A-C2A	-2.12	111.14	116.10
31	6	210	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
31	1	210	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
36	d	412	LHG	C27-C26-C25	-2.12	103.64	114.42
37	D	410	LMG	O7-C10-O9	-2.12	118.57	123.70
42	2	301	A86	C3-C4-C5	-2.12	119.12	123.47
31	3	306	CLA	CHB-C4A-NA	2.12	127.59	124.34
31	b	514	CLA	O2A-CGA-O1A	-2.12	118.23	123.59
33	c	516	BCR	C37-C22-C21	-2.12	119.95	122.92
31	2	310	CLA	CHD-C1D-ND	-2.12	122.50	124.45
33	B	519	BCR	C20-C21-C22	-2.12	124.28	127.31
33	d	405	BCR	C24-C23-C22	-2.12	123.03	126.23
42	7	301	A86	C3-C4-C5	-2.12	119.13	123.47
33	D	405	BCR	C24-C23-C22	-2.12	123.03	126.23
31	c	502	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
31	B	514	CLA	CHD-C1D-ND	-2.12	122.51	124.45
31	B	508	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
31	a	404	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
31	P	602	CLA	CHD-C1D-ND	-2.12	122.51	124.45
42	3	301	A86	C41-C32-C40	2.12	115.03	108.53
37	D	408	LMG	O2-C2-C1	-2.12	104.90	110.05
33	h	101	BCR	C15-C16-C17	-2.12	119.14	123.47
37	5	315	LMG	C42-C41-C40	-2.12	103.68	114.42
31	4	205	CLA	CMA-C3A-C2A	-2.12	108.30	114.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B	513	CLA	O2A-CGA-O1A	-2.12	118.25	123.59
44	2	304	DD6	C28-C27-C29	2.12	121.03	116.84
39	c	519	DGD	C1D-C2D-C3D	-2.12	105.59	110.00
37	Y	101	LMG	O8-C28-O10	-2.12	118.25	123.59
31	7	310	CLA	CHD-C1D-ND	-2.12	122.51	124.45
43	5	302	ET4	C39-C38-C33	2.11	127.22	124.35
43	0	302	ET4	C39-C38-C33	2.11	127.22	124.35
35	a	410	PL9	O1-C4-C3	-2.11	118.39	120.72
42	7	301	A86	C12-C11-C13	2.11	119.58	116.02
37	Y	101	LMG	C6-C5-C4	-2.11	108.05	113.00
36	D	411	LHG	C18-C17-C16	-2.11	103.69	114.42
42	8	301	A86	C41-C32-C40	2.11	115.02	108.53
31	d	403	CLA	CAA-CBA-CGA	-2.11	107.08	113.25
37	d	410	LMG	O7-C10-O9	-2.11	118.59	123.70
42	6	202	A86	C12-C11-C13	2.11	119.57	116.02
42	0	301	A86	C41-C32-C31	-2.11	108.58	110.47
39	C	519	DGD	CBB-CAB-C9B	-2.11	103.70	114.42
32	A	406	PHO	CMC-C2C-C3C	2.11	128.92	124.94
36	d	411	LHG	C18-C17-C16	-2.11	103.70	114.42
37	d	408	LMG	O2-C2-C1	-2.11	104.92	110.05
33	B	517	BCR	C7-C8-C9	-2.11	123.04	126.23
31	A	404	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
31	4	208	CLA	CAA-C2A-C3A	-2.11	111.17	116.10
39	c	518	DGD	O3E-C3E-C2E	-2.11	105.47	110.35
39	h	102	DGD	O3E-C3E-C2E	-2.11	105.47	110.35
31	C	502	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
31	D	403	CLA	CAA-CBA-CGA	-2.11	107.09	113.25
42	4	202	A86	C19-C18-C17	-2.11	106.70	110.77
42	3	302	A86	C-C1-C24	2.11	121.40	118.08
33	C	517	BCR	C11-C10-C9	-2.11	124.30	127.31
39	c	519	DGD	CBB-CAB-C9B	-2.11	103.72	114.42
33	b	518	BCR	C7-C8-C9	-2.11	123.05	126.23
42	8	302	A86	C-C1-C24	2.11	121.39	118.08
31	0	305	CLA	CHB-C4A-NA	2.11	127.42	124.51
42	4	201	A86	C4-C3-C2	-2.10	119.16	123.47
42	P	610	A86	O2-C18-C19	-2.10	105.62	109.80
39	C	518	DGD	O3E-C3E-C2E	-2.10	105.49	110.35
37	y	101	LMG	C6-C5-C4	-2.10	108.08	113.00
31	a	407	CLA	O2D-CGD-CBD	2.10	115.00	111.27
35	a	410	PL9	O2-C1-C2	-2.10	116.97	121.78
31	b	515	CLA	CHD-C1D-ND	-2.10	122.52	124.45
31	5	305	CLA	CHB-C4A-NA	2.10	127.41	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	9	211	CLA	CHB-C4A-NA	2.10	127.41	124.51
44	7	304	DD6	C28-C27-C29	2.10	121.00	116.84
31	a	407	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
31	4	211	CLA	CHB-C4A-NA	2.10	127.41	124.51
39	H	102	DGD	O3E-C3E-C2E	-2.10	105.50	110.35
35	A	410	PL9	O2-C1-C2	-2.10	116.98	121.78
31	9	205	CLA	CMA-C3A-C2A	-2.09	108.37	114.44
34	b	501	SQD	C1-O5-C5	2.09	117.80	113.69
34	B	523	SQD	C1-O5-C5	2.09	117.80	113.69
31	9	205	CLA	CHB-C4A-NA	2.09	127.40	124.51
31	8	306	CLA	CHB-C4A-NA	2.09	127.54	124.34
31	A	407	CLA	O2D-CGD-CBD	2.09	114.98	111.27
33	D	405	BCR	C33-C5-C6	-2.09	122.18	124.53
42	0	303	A86	C9-C10-C11	-2.09	120.47	126.61
31	Z	101	CLA	CHD-C1D-ND	-2.09	122.53	124.45
31	A	407	CLA	O2A-CGA-O1A	-2.09	118.33	123.59
33	b	518	BCR	C11-C10-C9	-2.08	124.33	127.31
37	d	409	LMG	O7-C10-O9	-2.08	118.67	123.70
31	9	213	CLA	CHD-C4C-NC	2.08	127.49	124.20
31	4	205	CLA	CHB-C4A-NA	2.08	127.39	124.51
31	C	506	CLA	O2D-CGD-CBD	2.08	114.97	111.27
41	F	101	HEM	CAD-CBD-CGD	-2.08	109.12	113.60
42	9	201	A86	C4-C3-C2	-2.08	119.21	123.47
31	2	314	CLA	CHD-C1D-ND	-2.08	122.54	124.45
42	5	303	A86	C12-C11-C13	2.08	119.52	116.02
42	1	202	A86	C12-C11-C13	2.08	119.52	116.02
37	D	409	LMG	O7-C10-O9	-2.08	118.67	123.70
42	8	301	A86	C26-C25-C24	-2.08	116.72	123.22
42	3	301	A86	C26-C25-C24	-2.08	116.72	123.22
33	C	517	BCR	C28-C27-C26	-2.08	110.36	114.08
31	c	506	CLA	O2D-CGD-CBD	2.08	114.97	111.27
39	c	519	DGD	O2D-C2D-C1D	-2.08	104.99	110.05
37	D	409	LMG	O2-C2-C1	-2.08	104.99	110.05
39	c	518	DGD	O2D-C2D-C1D	-2.08	104.99	110.05
42	5	303	A86	C9-C10-C11	-2.08	120.50	126.61
33	b	519	BCR	C24-C23-C22	-2.08	123.09	126.23
33	d	405	BCR	C2-C1-C6	2.08	113.68	110.48
31	z	101	CLA	CHD-C1D-ND	-2.08	122.55	124.45
39	C	519	DGD	O2D-C2D-C1D	-2.08	105.00	110.05
42	0	303	A86	C4-C3-C2	-2.08	119.22	123.47
31	b	512	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
35	A	410	PL9	O1-C4-C3	-2.08	118.43	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	2	301	A86	C12-C11-C13	2.08	119.51	116.02
43	0	302	ET4	C36-C37-C38	2.07	115.99	111.85
33	d	405	BCR	C11-C10-C9	-2.07	124.35	127.31
39	C	518	DGD	O2D-C2D-C1D	-2.07	105.01	110.05
37	d	409	LMG	O2-C2-C1	-2.07	105.01	110.05
33	B	518	BCR	C24-C23-C22	-2.07	123.10	126.23
33	B	517	BCR	C11-C10-C9	-2.07	124.35	127.31
44	6	204	DD6	C24-C1-C2	2.07	122.12	118.94
33	D	405	BCR	C11-C10-C9	-2.07	124.36	127.31
31	0	305	CLA	CHD-C1D-ND	-2.07	122.55	124.45
43	5	302	ET4	C36-C37-C38	2.07	115.97	111.85
42	2	302	A86	C23-C16-C17	-2.07	105.39	108.98
41	f	101	HEM	CAD-CBD-CGD	-2.07	109.16	113.60
31	B	511	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
39	h	102	DGD	C5B-C4B-C3B	-2.07	103.94	114.42
31	2	307	CLA	O2A-CGA-O1A	-2.06	118.38	123.59
32	A	405	PHO	O2A-CGA-O1A	-2.06	118.38	123.59
31	4	213	CLA	CHD-C4C-NC	2.06	127.46	124.20
42	5	301	A86	C41-C32-C31	-2.06	108.62	110.47
31	8	308	CLA	C2A-C1A-CHA	2.06	124.87	122.46
31	p	608	CLA	CHD-C1D-ND	-2.06	122.56	124.45
42	p	610	A86	O2-C18-C19	-2.06	105.71	109.80
31	Z	101	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
31	B	503	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
32	a	405	PHO	O2A-CGA-O1A	-2.06	118.39	123.59
31	z	101	CLA	O2A-CGA-O1A	-2.06	118.40	123.59
31	a	407	CLA	CHD-C1D-ND	-2.06	122.56	124.45
37	d	408	LMG	O1-C7-C8	-2.06	105.93	110.90
42	p	610	A86	C-C1-C2	-2.06	120.04	122.92
39	H	102	DGD	C5B-C4B-C3B	-2.06	103.98	114.42
31	b	504	CLA	O2A-CGA-O1A	-2.06	118.40	123.59
42	P	610	A86	C-C1-C2	-2.05	120.05	122.92
37	0	315	LMG	O2-C2-C1	-2.05	105.06	110.05
31	A	407	CLA	CHD-C1D-ND	-2.05	122.57	124.45
42	0	303	A86	C12-C11-C13	2.05	119.47	116.02
39	C	520	DGD	C2G-O2G-C1B	-2.05	112.74	117.79
42	7	302	A86	C23-C16-C17	-2.05	105.42	108.98
39	c	520	DGD	C2G-O2G-C1B	-2.05	112.74	117.79
31	5	305	CLA	CHD-C1D-ND	-2.05	122.57	124.45
33	D	405	BCR	C2-C1-C6	2.05	113.64	110.48
42	5	303	A86	C4-C3-C2	-2.05	119.28	123.47
34	a	409	SQD	C44-O6-C1	2.05	117.74	113.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	6	209	CLA	CHD-C1D-ND	-2.05	122.57	124.45
31	d	401	CLA	O2D-CGD-CBD	2.05	114.91	111.27
39	c	519	DGD	C3D-C4D-C5D	-2.05	106.59	110.24
31	D	401	CLA	O2D-CGD-CBD	2.05	114.91	111.27
37	D	408	LMG	O1-C7-C8	-2.05	105.96	110.90
42	6	202	A86	C7-C6-C8	2.05	121.30	118.08
31	p	606	CLA	CHB-C4A-NA	2.05	127.34	124.51
31	7	314	CLA	CHD-C1D-ND	-2.05	122.57	124.45
31	w	202	CLA	O2A-CGA-O1A	-2.05	118.20	123.30
44	1	204	DD6	C24-C1-C2	2.04	122.08	118.94
31	5	313	CLA	CHD-C1D-ND	-2.04	122.58	124.45
31	c	503	CLA	O2A-CGA-O1A	-2.04	118.43	123.59
31	B	505	CLA	CHD-C1D-ND	-2.04	122.58	124.45
31	p	601	CLA	CMA-C3A-C2A	-2.04	111.33	116.10
31	1	205	CLA	CHD-C1D-ND	-2.04	122.58	124.45
31	1	209	CLA	CHD-C1D-ND	-2.04	122.58	124.45
33	c	517	BCR	C28-C27-C26	-2.04	110.43	114.08
31	p	609	CLA	C2D-C1D-ND	-2.04	108.60	110.10
31	B	515	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
44	P	611	DD6	C32-C33-C34	-2.04	109.03	113.64
33	A	408	BCR	C15-C16-C17	-2.04	119.29	123.47
31	b	516	CLA	O2A-CGA-O1A	-2.04	118.44	123.59
35	d	406	PL9	O2-C1-C2	-2.04	117.11	121.78
44	2	304	DD6	C13-C11-C10	2.04	122.07	118.94
39	C	519	DGD	C3D-C4D-C5D	-2.04	106.60	110.24
37	5	315	LMG	O2-C2-C1	-2.04	105.09	110.05
35	D	406	PL9	O2-C1-C2	-2.04	117.11	121.78
33	a	408	BCR	C15-C16-C17	-2.04	119.30	123.47
42	9	201	A86	C9-C8-C6	-2.04	120.69	126.42
42	2	301	A86	C25-C26-C27	-2.04	124.40	127.31
42	4	201	A86	C9-C8-C6	-2.04	120.70	126.42
31	7	310	CLA	C1-C2-C3	-2.04	122.52	126.04
31	2	310	CLA	C1-C2-C3	-2.04	122.52	126.04
34	A	409	SQD	C44-O6-C1	2.04	117.72	113.74
42	5	317	A86	C26-C25-C24	-2.04	116.87	123.22
31	P	606	CLA	CHB-C4A-NA	2.03	127.33	124.51
31	W	202	CLA	O2A-CGA-O1A	-2.03	118.23	123.30
42	5	317	A86	C25-C26-C27	-2.03	124.41	127.31
42	0	317	A86	C25-C26-C27	-2.03	124.41	127.31
33	c	516	BCR	C28-C27-C26	-2.03	110.44	114.08
42	0	317	A86	C26-C25-C24	-2.03	116.87	123.22
31	P	607	CLA	C4D-CHA-C1A	2.03	123.72	121.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	1	206	CLA	O2A-CGA-O1A	-2.03	118.23	123.30
31	7	309	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
31	0	310	CLA	C1-C2-C3	-2.03	122.53	126.04
42	1	202	A86	C7-C6-C8	2.03	121.28	118.08
31	b	510	CLA	O2A-CGA-O1A	-2.03	118.47	123.59
33	C	516	BCR	C28-C27-C26	-2.03	110.45	114.08
31	P	609	CLA	C2D-C1D-ND	-2.03	108.61	110.10
44	7	304	DD6	C13-C11-C10	2.03	122.06	118.94
44	p	611	DD6	C32-C33-C34	-2.03	109.06	113.64
33	b	520	BCR	C27-C26-C25	2.03	125.68	122.73
39	h	102	DGD	O2D-C2D-C1D	-2.03	105.12	110.05
42	7	301	A86	C25-C26-C27	-2.03	124.42	127.31
42	P	610	A86	C8-C6-C5	2.03	122.05	118.94
31	P	608	CLA	CHD-C1D-ND	-2.03	122.59	124.45
31	5	310	CLA	CHD-C1D-ND	-2.03	122.59	124.45
39	H	102	DGD	O2D-C2D-C1D	-2.03	105.12	110.05
31	7	311	CLA	CHD-C1D-ND	-2.03	122.59	124.45
37	M	101	LMG	C1-C2-C3	-2.02	105.78	110.00
36	h	103	LHG	C11-C10-C9	-2.02	104.16	114.42
37	m	101	LMG	C1-C2-C3	-2.02	105.78	110.00
31	0	313	CLA	CHD-C1D-ND	-2.02	122.59	124.45
31	b	506	CLA	CHD-C1D-ND	-2.02	122.60	124.45
31	C	502	CLA	C1-C2-C3	-2.02	122.55	126.04
36	A	412	LHG	C5-O7-C7	-2.02	112.82	117.79
31	2	309	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
37	m	101	LMG	O7-C10-O9	-2.02	118.83	123.70
31	C	503	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
44	2	304	DD6	C3-C2-C1	-2.02	124.43	127.31
36	H	103	LHG	C11-C10-C9	-2.02	104.19	114.42
42	5	303	A86	C35-C34-C33	-2.02	106.36	109.88
31	7	307	CLA	O2A-CGA-O1A	-2.02	118.51	123.59
31	B	509	CLA	O2A-CGA-O1A	-2.01	118.51	123.59
31	P	601	CLA	CMA-C3A-C2A	-2.01	111.40	116.10
36	d	407	LHG	C5-O7-C7	-2.01	112.83	117.79
31	8	305	CLA	CAC-C3C-C2C	-2.01	124.08	127.53
42	p	610	A86	C8-C6-C5	2.01	122.03	118.94
31	7	312	CLA	C4C-C3C-C2C	-2.01	106.66	108.89
31	0	308	CLA	CHD-C1D-ND	-2.01	122.61	124.45
35	d	406	PL9	C36-C34-C33	-2.01	117.05	121.12
31	9	213	CLA	C3C-C4C-NC	-2.01	108.38	110.57
31	1	210	CLA	C2A-C1A-CHA	2.01	127.37	123.86
36	D	407	LHG	C5-O7-C7	-2.01	112.85	117.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	M	101	LMG	O7-C10-O9	-2.01	118.85	123.70
31	6	211	CLA	CHD-C1D-ND	-2.01	122.61	124.45
31	1	211	CLA	CHD-C1D-ND	-2.01	122.61	124.45
31	5	310	CLA	C1-C2-C3	-2.01	122.57	126.04
33	A	408	BCR	C11-C10-C9	-2.01	124.44	127.31
44	p	611	DD6	C9-C8-C6	-2.01	120.78	126.42
31	C	509	CLA	CHD-C1D-ND	-2.01	122.61	124.45
36	a	411	LHG	C5-O7-C7	-2.01	112.85	117.79
39	C	518	DGD	CBB-CAB-C9B	-2.01	104.24	114.42
37	d	408	LMG	O7-C10-O9	-2.01	118.85	123.70
39	c	518	DGD	CBB-CAB-C9B	-2.01	104.24	114.42
31	4	213	CLA	C3C-C4C-NC	-2.01	108.38	110.57
31	6	210	CLA	C2A-C1A-CHA	2.00	127.36	123.86
31	D	403	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
44	P	611	DD6	C9-C8-C6	-2.00	120.79	126.42
37	y	101	LMG	O7-C10-O9	-2.00	118.86	123.70
31	2	308	CLA	CHD-C1D-ND	-2.00	122.61	124.45
31	7	315	CLA	CMA-C3A-C2A	-2.00	111.43	116.10
37	b	521	LMG	O7-C10-O9	-2.00	118.87	123.70
31	b	508	CLA	O1D-CGD-CBD	2.00	128.58	124.48
31	3	311	CLA	C2D-C1D-ND	-2.00	108.63	110.10

All (206) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
31	A	403	CLA	ND
31	A	404	CLA	ND
31	A	407	CLA	ND
31	B	501	CLA	ND
31	B	502	CLA	ND
31	B	503	CLA	ND
31	B	504	CLA	ND
31	B	505	CLA	ND
31	B	506	CLA	ND
31	B	507	CLA	ND
31	B	508	CLA	ND
31	B	509	CLA	ND
31	B	510	CLA	ND
31	B	511	CLA	ND
31	B	512	CLA	ND
31	B	513	CLA	ND
31	B	514	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
31	B	515	CLA	ND
31	B	516	CLA	ND
31	C	502	CLA	ND
31	C	503	CLA	ND
31	C	504	CLA	ND
31	C	505	CLA	ND
31	C	506	CLA	ND
31	C	507	CLA	ND
31	C	508	CLA	ND
31	C	509	CLA	ND
31	C	510	CLA	ND
31	C	511	CLA	ND
31	C	512	CLA	ND
31	C	513	CLA	ND
31	C	514	CLA	ND
31	D	401	CLA	ND
31	D	403	CLA	ND
31	D	404	CLA	ND
31	W	202	CLA	ND
31	Z	101	CLA	ND
31	a	403	CLA	ND
31	a	404	CLA	ND
31	a	407	CLA	ND
31	b	502	CLA	ND
31	b	503	CLA	ND
31	b	504	CLA	ND
31	b	505	CLA	ND
31	b	506	CLA	ND
31	b	507	CLA	ND
31	b	508	CLA	ND
31	b	509	CLA	ND
31	b	510	CLA	ND
31	b	511	CLA	ND
31	b	512	CLA	ND
31	b	513	CLA	ND
31	b	514	CLA	ND
31	b	515	CLA	ND
31	b	516	CLA	ND
31	b	517	CLA	ND
31	c	502	CLA	ND
31	c	503	CLA	ND
31	c	504	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
31	c	505	CLA	ND
31	c	506	CLA	ND
31	c	507	CLA	ND
31	c	508	CLA	ND
31	c	509	CLA	ND
31	c	510	CLA	ND
31	c	511	CLA	ND
31	c	512	CLA	ND
31	c	513	CLA	ND
31	c	514	CLA	ND
31	d	401	CLA	ND
31	d	403	CLA	ND
31	d	404	CLA	ND
31	w	202	CLA	ND
31	z	101	CLA	ND
31	5	304	CLA	ND
31	5	305	CLA	ND
31	5	306	CLA	ND
31	5	307	CLA	ND
31	5	308	CLA	ND
31	5	309	CLA	ND
31	5	310	CLA	ND
31	5	311	CLA	ND
31	5	312	CLA	ND
31	5	313	CLA	ND
31	5	314	CLA	ND
31	7	305	CLA	ND
31	7	306	CLA	ND
31	7	307	CLA	ND
31	7	308	CLA	ND
31	7	309	CLA	ND
31	7	310	CLA	ND
31	7	311	CLA	ND
31	7	312	CLA	ND
31	7	313	CLA	ND
31	7	314	CLA	ND
31	7	315	CLA	ND
31	7	316	CLA	ND
31	6	201	CLA	ND
31	6	205	CLA	ND
31	6	206	CLA	ND
31	6	207	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
31	6	208	CLA	ND
31	6	209	CLA	ND
31	6	210	CLA	ND
31	6	211	CLA	ND
31	6	212	CLA	ND
31	6	213	CLA	ND
31	6	214	CLA	ND
31	6	215	CLA	ND
31	6	216	CLA	ND
31	p	601	CLA	ND
31	p	602	CLA	ND
31	p	603	CLA	ND
31	p	604	CLA	ND
31	p	605	CLA	ND
31	p	606	CLA	ND
31	p	607	CLA	ND
31	p	608	CLA	ND
31	p	609	CLA	ND
31	4	204	CLA	ND
31	4	205	CLA	ND
31	4	206	CLA	ND
31	4	207	CLA	ND
31	4	208	CLA	ND
31	4	209	CLA	ND
31	4	210	CLA	ND
31	4	211	CLA	ND
31	4	212	CLA	ND
31	4	213	CLA	ND
31	3	304	CLA	ND
31	3	305	CLA	ND
31	3	306	CLA	ND
31	3	307	CLA	ND
31	3	308	CLA	ND
31	3	309	CLA	ND
31	3	310	CLA	ND
31	3	311	CLA	ND
31	3	312	CLA	ND
31	3	313	CLA	ND
31	3	314	CLA	ND
31	P	601	CLA	ND
31	P	602	CLA	ND
31	P	603	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
31	P	604	CLA	ND
31	P	605	CLA	ND
31	P	606	CLA	ND
31	P	607	CLA	ND
31	P	608	CLA	ND
31	P	609	CLA	ND
31	9	204	CLA	ND
31	9	205	CLA	ND
31	9	206	CLA	ND
31	9	207	CLA	ND
31	9	208	CLA	ND
31	9	209	CLA	ND
31	9	210	CLA	ND
31	9	211	CLA	ND
31	9	212	CLA	ND
31	9	213	CLA	ND
31	8	304	CLA	ND
31	8	305	CLA	ND
31	8	306	CLA	ND
31	8	307	CLA	ND
31	8	308	CLA	ND
31	8	309	CLA	ND
31	8	310	CLA	ND
31	8	311	CLA	ND
31	8	312	CLA	ND
31	8	313	CLA	ND
31	8	314	CLA	ND
31	0	304	CLA	ND
31	0	305	CLA	ND
31	0	306	CLA	ND
31	0	307	CLA	ND
31	0	308	CLA	ND
31	0	309	CLA	ND
31	0	310	CLA	ND
31	0	311	CLA	ND
31	0	312	CLA	ND
31	0	313	CLA	ND
31	0	314	CLA	ND
31	2	305	CLA	ND
31	2	306	CLA	ND
31	2	307	CLA	ND
31	2	308	CLA	ND

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Mol	Chain	Res	Type	Atom
31	2	309	CLA	ND
31	2	310	CLA	ND
31	2	311	CLA	ND
31	2	312	CLA	ND
31	2	313	CLA	ND
31	2	314	CLA	ND
31	2	315	CLA	ND
31	2	316	CLA	ND
31	1	201	CLA	ND
31	1	205	CLA	ND
31	1	206	CLA	ND
31	1	207	CLA	ND
31	1	208	CLA	ND
31	1	209	CLA	ND
31	1	210	CLA	ND
31	1	211	CLA	ND
31	1	212	CLA	ND
31	1	213	CLA	ND
31	1	214	CLA	ND
31	1	215	CLA	ND
31	1	216	CLA	ND

All (2485) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
31	B	501	CLA	CAD-CBD-CGD-O1D
31	B	501	CLA	CAD-CBD-CGD-O2D
31	C	502	CLA	CHA-CBD-CGD-O1D
31	C	502	CLA	CHA-CBD-CGD-O2D
31	C	502	CLA	CAD-CBD-CGD-O1D
31	C	502	CLA	CAD-CBD-CGD-O2D
31	C	508	CLA	CHA-CBD-CGD-O2D
31	C	512	CLA	CHA-CBD-CGD-O1D
31	C	512	CLA	CHA-CBD-CGD-O2D
31	C	514	CLA	CBD-CGD-O2D-CED
31	D	401	CLA	CHA-CBD-CGD-O1D
31	D	401	CLA	CHA-CBD-CGD-O2D
31	D	403	CLA	C1A-C2A-CAA-CBA
31	D	403	CLA	C3A-C2A-CAA-CBA
31	Z	101	CLA	C2-C3-C5-C6
31	b	502	CLA	CAD-CBD-CGD-O1D
31	b	502	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
31	c	502	CLA	CHA-CBD-CGD-O1D
31	c	502	CLA	CHA-CBD-CGD-O2D
31	c	502	CLA	CAD-CBD-CGD-O1D
31	c	502	CLA	CAD-CBD-CGD-O2D
31	c	508	CLA	CHA-CBD-CGD-O2D
31	c	512	CLA	CHA-CBD-CGD-O1D
31	c	512	CLA	CHA-CBD-CGD-O2D
31	c	514	CLA	CBD-CGD-O2D-CED
31	d	401	CLA	CHA-CBD-CGD-O1D
31	d	401	CLA	CHA-CBD-CGD-O2D
31	d	403	CLA	C1A-C2A-CAA-CBA
31	d	403	CLA	C3A-C2A-CAA-CBA
31	z	101	CLA	C2-C3-C5-C6
31	5	307	CLA	C1A-C2A-CAA-CBA
31	5	307	CLA	CBD-CGD-O2D-CED
31	5	307	CLA	C2-C3-C5-C6
31	5	307	CLA	C4-C3-C5-C6
31	5	307	CLA	C6-C7-C8-C9
31	5	309	CLA	CBD-CGD-O2D-CED
31	5	312	CLA	CAD-CBD-CGD-O1D
31	5	312	CLA	CAD-CBD-CGD-O2D
31	7	309	CLA	CBD-CGD-O2D-CED
31	7	310	CLA	CBD-CGD-O2D-CED
31	7	311	CLA	CHA-CBD-CGD-O1D
31	7	311	CLA	CHA-CBD-CGD-O2D
31	7	311	CLA	CAD-CBD-CGD-O1D
31	6	205	CLA	CHA-CBD-CGD-O1D
31	6	205	CLA	CHA-CBD-CGD-O2D
31	6	206	CLA	CHA-CBD-CGD-O1D
31	6	206	CLA	CHA-CBD-CGD-O2D
31	6	208	CLA	CHA-CBD-CGD-O1D
31	6	208	CLA	CHA-CBD-CGD-O2D
31	6	209	CLA	C1A-C2A-CAA-CBA
31	6	210	CLA	C1A-C2A-CAA-CBA
31	6	210	CLA	CBD-CGD-O2D-CED
31	6	211	CLA	CBD-CGD-O2D-CED
31	6	212	CLA	CHA-CBD-CGD-O1D
31	6	212	CLA	CHA-CBD-CGD-O2D
31	6	212	CLA	CBD-CGD-O2D-CED
31	p	604	CLA	CAD-CBD-CGD-O2D
31	p	609	CLA	CHA-CBD-CGD-O2D
31	p	609	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
31	4	209	CLA	CHA-CBD-CGD-O1D
31	4	209	CLA	CHA-CBD-CGD-O2D
31	4	209	CLA	CBD-CGD-O2D-CED
31	4	209	CLA	O1D-CGD-O2D-CED
31	3	308	CLA	C2D-C3D-CAD-OB
31	3	308	CLA	C4D-C3D-CAD-OB
31	3	312	CLA	C1A-C2A-CAA-CBA
31	3	312	CLA	CAD-CBD-CGD-O2D
31	P	604	CLA	CAD-CBD-CGD-O2D
31	P	609	CLA	CHA-CBD-CGD-O2D
31	P	609	CLA	CAD-CBD-CGD-O2D
31	9	209	CLA	CHA-CBD-CGD-O1D
31	9	209	CLA	CHA-CBD-CGD-O2D
31	9	209	CLA	CBD-CGD-O2D-CED
31	9	209	CLA	O1D-CGD-O2D-CED
31	8	308	CLA	C2D-C3D-CAD-OB
31	8	308	CLA	C4D-C3D-CAD-OB
31	8	312	CLA	C1A-C2A-CAA-CBA
31	8	312	CLA	CAD-CBD-CGD-O2D
31	0	307	CLA	C1A-C2A-CAA-CBA
31	0	307	CLA	CBD-CGD-O2D-CED
31	0	307	CLA	C2-C3-C5-C6
31	0	307	CLA	C4-C3-C5-C6
31	0	307	CLA	C6-C7-C8-C9
31	0	309	CLA	CBD-CGD-O2D-CED
31	0	312	CLA	CAD-CBD-CGD-O1D
31	0	312	CLA	CAD-CBD-CGD-O2D
31	2	309	CLA	CBD-CGD-O2D-CED
31	2	310	CLA	CBD-CGD-O2D-CED
31	2	311	CLA	CHA-CBD-CGD-O1D
31	2	311	CLA	CHA-CBD-CGD-O2D
31	2	311	CLA	CAD-CBD-CGD-O1D
31	1	205	CLA	CHA-CBD-CGD-O1D
31	1	205	CLA	CHA-CBD-CGD-O2D
31	1	206	CLA	CHA-CBD-CGD-O1D
31	1	206	CLA	CHA-CBD-CGD-O2D
31	1	208	CLA	CHA-CBD-CGD-O1D
31	1	208	CLA	CHA-CBD-CGD-O2D
31	1	209	CLA	C1A-C2A-CAA-CBA
31	1	210	CLA	C1A-C2A-CAA-CBA
31	1	210	CLA	CBD-CGD-O2D-CED
31	1	211	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
31	1	212	CLA	CHA-CBD-CGD-O1D
31	1	212	CLA	CHA-CBD-CGD-O2D
31	1	212	CLA	CBD-CGD-O2D-CED
32	A	406	PHO	C1A-C2A-CAA-CBA
32	A	406	PHO	C3A-C2A-CAA-CBA
32	a	406	PHO	C1A-C2A-CAA-CBA
32	a	406	PHO	C3A-C2A-CAA-CBA
33	B	519	BCR	C7-C8-C9-C10
33	B	519	BCR	C21-C22-C23-C24
33	B	519	BCR	C22-C23-C24-C25
33	C	517	BCR	C1-C6-C7-C8
33	K	101	BCR	C6-C7-C8-C9
33	K	101	BCR	C7-C8-C9-C34
33	K	101	BCR	C11-C10-C9-C8
33	K	101	BCR	C10-C11-C12-C13
33	K	101	BCR	C11-C12-C13-C14
33	K	101	BCR	C11-C12-C13-C35
33	K	101	BCR	C12-C13-C14-C15
33	K	101	BCR	C18-C19-C20-C21
33	b	520	BCR	C7-C8-C9-C10
33	b	520	BCR	C21-C22-C23-C24
33	b	520	BCR	C22-C23-C24-C25
33	c	517	BCR	C1-C6-C7-C8
33	k	101	BCR	C6-C7-C8-C9
33	k	101	BCR	C7-C8-C9-C34
33	k	101	BCR	C11-C10-C9-C8
33	k	101	BCR	C10-C11-C12-C13
33	k	101	BCR	C11-C12-C13-C14
33	k	101	BCR	C11-C12-C13-C35
33	k	101	BCR	C12-C13-C14-C15
33	k	101	BCR	C18-C19-C20-C21
34	A	409	SQD	O5-C5-C6-S
34	A	411	SQD	C2-C1-O6-C44
34	A	411	SQD	O5-C1-O6-C44
34	A	411	SQD	O5-C5-C6-S
34	B	522	SQD	C2-C1-O6-C44
34	B	522	SQD	O5-C1-O6-C44
34	B	522	SQD	O5-C5-C6-S
34	B	523	SQD	C2-C1-O6-C44
34	B	523	SQD	O5-C1-O6-C44
34	B	523	SQD	O49-C7-O47-C45
34	B	523	SQD	C8-C7-O47-C45

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Mol	Chain	Res	Type	Atoms
34	a	409	SQD	O5-C5-C6-S
34	b	501	SQD	C2-C1-O6-C44
34	b	501	SQD	O5-C1-O6-C44
34	b	501	SQD	O49-C7-O47-C45
34	b	501	SQD	C8-C7-O47-C45
34	5	316	SQD	C45-C44-O6-C1
34	5	316	SQD	C5-C6-S-O7
34	0	316	SQD	C45-C44-O6-C1
34	0	316	SQD	C5-C6-S-O7
35	A	410	PL9	C12-C13-C14-C16
35	D	406	PL9	C37-C38-C39-C41
35	a	410	PL9	C12-C13-C14-C16
35	d	406	PL9	C37-C38-C39-C41
36	A	412	LHG	O1-C1-C2-C3
36	A	413	LHG	C3-O3-P-O5
36	A	413	LHG	C3-O3-P-O6
36	A	413	LHG	C4-O6-P-O4
36	B	521	LHG	C3-O3-P-O4
36	D	407	LHG	O1-C1-C2-C3
36	D	407	LHG	O2-C2-C3-O3
36	D	411	LHG	C4-O6-P-O3
36	D	411	LHG	C4-O6-P-O4
36	D	411	LHG	C4-O6-P-O5
36	D	411	LHG	O6-C4-C5-O7
36	D	412	LHG	C4-O6-P-O3
36	D	412	LHG	C4-O6-P-O4
36	D	412	LHG	C4-O6-P-O5
36	D	412	LHG	O7-C5-C6-O8
36	H	103	LHG	C3-O3-P-O6
36	a	411	LHG	O1-C1-C2-C3
36	a	412	LHG	C3-O3-P-O5
36	a	412	LHG	C3-O3-P-O6
36	a	412	LHG	C4-O6-P-O4
36	b	522	LHG	C3-O3-P-O4
36	d	407	LHG	O1-C1-C2-C3
36	d	407	LHG	O2-C2-C3-O3
36	d	411	LHG	C4-O6-P-O3
36	d	411	LHG	C4-O6-P-O4
36	d	411	LHG	C4-O6-P-O5
36	d	411	LHG	O6-C4-C5-O7
36	d	412	LHG	C4-O6-P-O3
36	d	412	LHG	C4-O6-P-O4

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Mol	Chain	Res	Type	Atoms
36	d	412	LHG	C4-O6-P-O5
36	d	412	LHG	O7-C5-C6-O8
36	h	103	LHG	C3-O3-P-O5
36	h	103	LHG	C3-O3-P-O6
37	C	521	LMG	O9-C10-O7-C8
37	D	408	LMG	C11-C10-O7-C8
37	D	409	LMG	C11-C10-O7-C8
37	W	201	LMG	O6-C1-O1-C7
37	W	201	LMG	C11-C10-O7-C8
37	c	521	LMG	O9-C10-O7-C8
37	d	408	LMG	C11-C10-O7-C8
37	d	409	LMG	C11-C10-O7-C8
37	w	201	LMG	O6-C1-O1-C7
37	w	201	LMG	C11-C10-O7-C8
37	5	315	LMG	O6-C1-O1-C7
37	5	315	LMG	O7-C8-C9-O8
37	0	315	LMG	O6-C1-O1-C7
37	0	315	LMG	O7-C8-C9-O8
39	C	519	DGD	C2B-C1B-O2G-C2G
39	c	519	DGD	C2B-C1B-O2G-C2G
41	V	201	HEM	C1A-C2A-CAA-CBA
41	V	201	HEM	C3A-C2A-CAA-CBA
41	v	201	HEM	C1A-C2A-CAA-CBA
41	v	201	HEM	C3A-C2A-CAA-CBA
42	5	301	A86	C10-C11-C13-O
42	5	301	A86	C10-C11-C13-C14
42	5	301	A86	C12-C11-C13-O
42	5	301	A86	C13-C14-C15-C16
42	5	301	A86	C13-C14-C15-O1
42	5	303	A86	C5-C6-C8-C9
42	5	303	A86	C7-C6-C8-C9
42	5	317	A86	C10-C11-C13-O
42	5	317	A86	C12-C11-C13-O
42	5	317	A86	C12-C11-C13-C14
42	7	301	A86	C10-C11-C13-O
42	7	301	A86	C12-C11-C13-O
42	7	301	A86	C12-C11-C13-C14
42	p	610	A86	C39-C38-O4-C34
42	p	610	A86	C5-C6-C8-C9
42	p	610	A86	C7-C6-C8-C9
42	4	201	A86	C12-C11-C13-O
42	4	201	A86	C39-C38-O4-C34

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Mol	Chain	Res	Type	Atoms
42	4	202	A86	C12-C11-C13-C14
42	3	301	A86	C13-C14-C15-C16
42	3	301	A86	C13-C14-C15-O1
42	3	301	A86	C3-C4-C5-C6
42	3	301	A86	C5-C6-C8-C9
42	3	301	A86	C7-C6-C8-C9
42	P	610	A86	C39-C38-O4-C34
42	P	610	A86	C5-C6-C8-C9
42	P	610	A86	C7-C6-C8-C9
42	9	201	A86	C12-C11-C13-O
42	9	201	A86	C39-C38-O4-C34
42	9	202	A86	C12-C11-C13-C14
42	8	301	A86	C13-C14-C15-C16
42	8	301	A86	C13-C14-C15-O1
42	8	301	A86	C3-C4-C5-C6
42	8	301	A86	C5-C6-C8-C9
42	8	301	A86	C7-C6-C8-C9
42	0	301	A86	C10-C11-C13-O
42	0	301	A86	C10-C11-C13-C14
42	0	301	A86	C12-C11-C13-O
42	0	301	A86	C13-C14-C15-C16
42	0	301	A86	C13-C14-C15-O1
42	0	303	A86	C5-C6-C8-C9
42	0	303	A86	C7-C6-C8-C9
42	0	317	A86	C10-C11-C13-O
42	0	317	A86	C12-C11-C13-O
42	0	317	A86	C12-C11-C13-C14
42	2	301	A86	C10-C11-C13-O
42	2	301	A86	C12-C11-C13-O
42	2	301	A86	C12-C11-C13-C14
43	5	302	ET4	C17-C18-C19-C20
43	5	302	ET4	C30-C18-C19-C20
43	5	302	ET4	C01-C06-C07-C08
43	5	302	ET4	C05-C06-C07-C08
43	5	302	ET4	C07-C08-C09-C10
43	5	302	ET4	C07-C08-C09-C27
43	0	302	ET4	C17-C18-C19-C20
43	0	302	ET4	C30-C18-C19-C20
43	0	302	ET4	C01-C06-C07-C08
43	0	302	ET4	C05-C06-C07-C08
43	0	302	ET4	C07-C08-C09-C10
43	0	302	ET4	C07-C08-C09-C27

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Mol	Chain	Res	Type	Atoms
44	7	304	DD6	C-C1-C24-C25
44	7	304	DD6	C2-C1-C24-C25
44	7	304	DD6	C13-C14-C15-C16
44	7	304	DD6	C13-C14-C15-C20
44	6	204	DD6	C12-C11-C13-C14
44	6	204	DD6	C1-C2-C3-C4
44	p	611	DD6	C10-C11-C13-C14
44	p	611	DD6	C12-C11-C13-C14
44	3	303	DD6	C12-C11-C13-C14
44	P	611	DD6	C10-C11-C13-C14
44	P	611	DD6	C12-C11-C13-C14
44	8	303	DD6	C12-C11-C13-C14
44	2	304	DD6	C-C1-C24-C25
44	2	304	DD6	C2-C1-C24-C25
44	2	304	DD6	C13-C14-C15-C16
44	2	304	DD6	C13-C14-C15-C20
44	1	204	DD6	C12-C11-C13-C14
44	1	204	DD6	C1-C2-C3-C4
42	5	317	A86	C39-C38-O4-C34
42	7	301	A86	C39-C38-O4-C34
42	6	202	A86	C39-C38-O4-C34
42	3	301	A86	C39-C38-O4-C34
42	8	301	A86	C39-C38-O4-C34
42	0	317	A86	C39-C38-O4-C34
42	2	301	A86	C39-C38-O4-C34
42	1	202	A86	C39-C38-O4-C34
31	A	403	CLA	O1D-CGD-O2D-CED
31	C	504	CLA	O1D-CGD-O2D-CED
31	C	514	CLA	O1D-CGD-O2D-CED
31	a	403	CLA	O1D-CGD-O2D-CED
31	c	504	CLA	O1D-CGD-O2D-CED
31	c	514	CLA	O1D-CGD-O2D-CED
42	3	302	A86	C39-C38-O4-C34
42	8	302	A86	C39-C38-O4-C34
31	7	310	CLA	O1D-CGD-O2D-CED
31	6	211	CLA	O1D-CGD-O2D-CED
31	2	310	CLA	O1D-CGD-O2D-CED
31	1	211	CLA	O1D-CGD-O2D-CED
31	A	403	CLA	CBD-CGD-O2D-CED
31	B	505	CLA	CBD-CGD-O2D-CED
31	B	509	CLA	CBD-CGD-O2D-CED
31	B	516	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
31	C	504	CLA	CBD-CGD-O2D-CED
31	a	403	CLA	CBD-CGD-O2D-CED
31	b	506	CLA	CBD-CGD-O2D-CED
31	b	510	CLA	CBD-CGD-O2D-CED
31	b	517	CLA	CBD-CGD-O2D-CED
31	c	504	CLA	CBD-CGD-O2D-CED
31	5	312	CLA	CBD-CGD-O2D-CED
31	7	308	CLA	CBD-CGD-O2D-CED
31	7	311	CLA	CBD-CGD-O2D-CED
31	6	207	CLA	CBD-CGD-O2D-CED
31	6	208	CLA	CBD-CGD-O2D-CED
31	0	312	CLA	CBD-CGD-O2D-CED
31	2	308	CLA	CBD-CGD-O2D-CED
31	2	311	CLA	CBD-CGD-O2D-CED
31	1	207	CLA	CBD-CGD-O2D-CED
31	1	208	CLA	CBD-CGD-O2D-CED
37	D	409	LMG	O10-C28-O8-C9
37	d	409	LMG	O10-C28-O8-C9
37	5	315	LMG	O10-C28-O8-C9
37	0	315	LMG	O10-C28-O8-C9
31	5	309	CLA	O1D-CGD-O2D-CED
31	5	312	CLA	O1D-CGD-O2D-CED
31	6	212	CLA	O1D-CGD-O2D-CED
31	0	309	CLA	O1D-CGD-O2D-CED
31	0	312	CLA	O1D-CGD-O2D-CED
31	1	212	CLA	O1D-CGD-O2D-CED
31	7	309	CLA	O1D-CGD-O2D-CED
31	6	210	CLA	O1D-CGD-O2D-CED
31	2	309	CLA	O1D-CGD-O2D-CED
31	1	210	CLA	O1D-CGD-O2D-CED
37	D	409	LMG	C29-C28-O8-C9
37	M	102	LMG	C29-C28-O8-C9
37	d	409	LMG	C29-C28-O8-C9
37	m	102	LMG	C29-C28-O8-C9
37	5	315	LMG	C29-C28-O8-C9
37	0	315	LMG	C29-C28-O8-C9
39	C	519	DGD	C4E-C5E-C6E-O5E
39	c	519	DGD	C4E-C5E-C6E-O5E
31	B	507	CLA	CBD-CGD-O2D-CED
31	C	507	CLA	CBD-CGD-O2D-CED
31	b	508	CLA	CBD-CGD-O2D-CED
31	c	507	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
31	6	201	CLA	CBD-CGD-O2D-CED
31	p	602	CLA	CBD-CGD-O2D-CED
31	P	602	CLA	CBD-CGD-O2D-CED
31	1	201	CLA	CBD-CGD-O2D-CED
31	A	403	CLA	O1A-CGA-O2A-C1
31	B	502	CLA	O1A-CGA-O2A-C1
31	a	403	CLA	O1A-CGA-O2A-C1
31	b	503	CLA	O1A-CGA-O2A-C1
31	5	305	CLA	O1A-CGA-O2A-C1
31	5	308	CLA	O1A-CGA-O2A-C1
31	7	309	CLA	O1A-CGA-O2A-C1
31	0	305	CLA	O1A-CGA-O2A-C1
31	0	308	CLA	O1A-CGA-O2A-C1
31	2	309	CLA	O1A-CGA-O2A-C1
32	A	405	PHO	O1A-CGA-O2A-C1
32	a	405	PHO	O1A-CGA-O2A-C1
37	M	102	LMG	O10-C28-O8-C9
37	W	201	LMG	O10-C28-O8-C9
37	m	102	LMG	O10-C28-O8-C9
37	w	201	LMG	O10-C28-O8-C9
42	5	317	A86	O5-C38-O4-C34
42	7	301	A86	O5-C38-O4-C34
42	6	202	A86	O5-C38-O4-C34
42	p	610	A86	O5-C38-O4-C34
42	4	201	A86	O5-C38-O4-C34
42	3	301	A86	O5-C38-O4-C34
42	P	610	A86	O5-C38-O4-C34
42	9	201	A86	O5-C38-O4-C34
42	8	301	A86	O5-C38-O4-C34
42	0	317	A86	O5-C38-O4-C34
42	2	301	A86	O5-C38-O4-C34
42	1	202	A86	O5-C38-O4-C34
39	C	518	DGD	C4E-C5E-C6E-O5E
39	c	518	DGD	C4E-C5E-C6E-O5E
31	5	307	CLA	O1D-CGD-O2D-CED
31	0	307	CLA	O1D-CGD-O2D-CED
36	H	103	LHG	O9-C7-O7-C5
36	h	103	LHG	O9-C7-O7-C5
37	D	409	LMG	O9-C10-O7-C8
37	d	409	LMG	O9-C10-O7-C8
39	C	519	DGD	O1B-C1B-O2G-C2G
39	c	519	DGD	O1B-C1B-O2G-C2G

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Mol	Chain	Res	Type	Atoms
31	a	407	CLA	C3-C5-C6-C7
31	5	308	CLA	C3-C5-C6-C7
31	5	310	CLA	C3-C5-C6-C7
31	0	308	CLA	C3-C5-C6-C7
31	0	310	CLA	C3-C5-C6-C7
31	B	502	CLA	CBA-CGA-O2A-C1
31	b	503	CLA	CBA-CGA-O2A-C1
32	A	405	PHO	CBA-CGA-O2A-C1
32	a	405	PHO	CBA-CGA-O2A-C1
37	W	201	LMG	C29-C28-O8-C9
37	w	201	LMG	C29-C28-O8-C9
34	A	411	SQD	C8-C7-O47-C45
34	B	522	SQD	C8-C7-O47-C45
36	D	411	LHG	C8-C7-O7-C5
36	d	411	LHG	C8-C7-O7-C5
37	C	521	LMG	C11-C10-O7-C8
37	c	521	LMG	C11-C10-O7-C8
31	6	207	CLA	O1D-CGD-O2D-CED
31	1	207	CLA	O1D-CGD-O2D-CED
31	7	307	CLA	CBD-CGD-O2D-CED
31	2	307	CLA	CBD-CGD-O2D-CED
39	C	519	DGD	O6E-C5E-C6E-O5E
39	c	519	DGD	O6E-C5E-C6E-O5E
37	J	101	LMG	C4-C5-C6-O5
37	j	101	LMG	C4-C5-C6-O5
31	B	511	CLA	CBD-CGD-O2D-CED
31	b	512	CLA	CBD-CGD-O2D-CED
31	5	304	CLA	CBD-CGD-O2D-CED
31	5	308	CLA	CBD-CGD-O2D-CED
31	0	304	CLA	CBD-CGD-O2D-CED
31	0	308	CLA	CBD-CGD-O2D-CED
31	B	506	CLA	C2A-CAA-CBA-CGA
31	B	510	CLA	C2A-CAA-CBA-CGA
31	b	507	CLA	C2A-CAA-CBA-CGA
31	b	511	CLA	C2A-CAA-CBA-CGA
31	B	509	CLA	O1D-CGD-O2D-CED
31	b	510	CLA	O1D-CGD-O2D-CED
37	C	521	LMG	C21-C22-C23-C24
37	c	521	LMG	C21-C22-C23-C24
31	A	407	CLA	C3-C5-C6-C7
31	B	504	CLA	C3-C5-C6-C7
31	B	514	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
31	b	505	CLA	C3-C5-C6-C7
31	b	515	CLA	C3-C5-C6-C7
32	A	405	PHO	C3-C5-C6-C7
32	A	406	PHO	C3-C5-C6-C7
32	a	405	PHO	C3-C5-C6-C7
32	a	406	PHO	C3-C5-C6-C7
31	A	403	CLA	CBA-CGA-O2A-C1
31	D	404	CLA	CBA-CGA-O2A-C1
31	a	403	CLA	CBA-CGA-O2A-C1
31	d	404	CLA	CBA-CGA-O2A-C1
31	5	305	CLA	CBA-CGA-O2A-C1
31	5	308	CLA	CBA-CGA-O2A-C1
31	7	309	CLA	CBA-CGA-O2A-C1
31	0	305	CLA	CBA-CGA-O2A-C1
31	0	308	CLA	CBA-CGA-O2A-C1
31	2	309	CLA	CBA-CGA-O2A-C1
31	B	505	CLA	O1D-CGD-O2D-CED
31	b	506	CLA	O1D-CGD-O2D-CED
35	A	410	PL9	C12-C13-C14-C15
35	a	410	PL9	C12-C13-C14-C15
31	C	503	CLA	CBD-CGD-O2D-CED
31	c	503	CLA	CBD-CGD-O2D-CED
31	7	308	CLA	O1D-CGD-O2D-CED
31	2	308	CLA	O1D-CGD-O2D-CED
39	C	518	DGD	O6E-C5E-C6E-O5E
39	c	518	DGD	O6E-C5E-C6E-O5E
34	A	411	SQD	O49-C7-O47-C45
34	B	522	SQD	O49-C7-O47-C45
36	D	411	LHG	O9-C7-O7-C5
36	d	411	LHG	O9-C7-O7-C5
37	D	410	LMG	O9-C10-O7-C8
37	d	408	LMG	O9-C10-O7-C8
37	d	410	LMG	O9-C10-O7-C8
37	W	201	LMG	C4-C5-C6-O5
37	w	201	LMG	C4-C5-C6-O5
31	6	208	CLA	O1D-CGD-O2D-CED
31	1	208	CLA	O1D-CGD-O2D-CED
42	p	610	A86	C11-C10-C9-C8
42	P	610	A86	C11-C10-C9-C8
44	7	304	DD6	C24-C25-C26-C27
44	6	204	DD6	C3-C4-C5-C6
44	2	304	DD6	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
44	1	204	DD6	C3-C4-C5-C6
42	5	303	A86	C39-C38-O4-C34
42	4	202	A86	C39-C38-O4-C34
42	3	302	A86	O5-C38-O4-C34
42	9	202	A86	C39-C38-O4-C34
42	0	303	A86	C39-C38-O4-C34
31	C	512	CLA	CBD-CGD-O2D-CED
31	c	512	CLA	CBD-CGD-O2D-CED
31	B	516	CLA	O1D-CGD-O2D-CED
31	b	517	CLA	O1D-CGD-O2D-CED
31	7	311	CLA	O1D-CGD-O2D-CED
31	2	311	CLA	O1D-CGD-O2D-CED
31	5	307	CLA	C3-C5-C6-C7
31	0	307	CLA	C3-C5-C6-C7
36	H	103	LHG	C24-C23-O8-C6
36	h	103	LHG	C24-C23-O8-C6
42	5	301	A86	C39-C38-O4-C34
42	5	303	A86	O5-C38-O4-C34
42	7	302	A86	C39-C38-O4-C34
42	4	202	A86	O5-C38-O4-C34
42	4	203	A86	C39-C38-O4-C34
42	9	202	A86	O5-C38-O4-C34
42	9	203	A86	C39-C38-O4-C34
42	0	301	A86	C39-C38-O4-C34
42	0	303	A86	O5-C38-O4-C34
42	2	302	A86	C39-C38-O4-C34
36	H	103	LHG	C8-C7-O7-C5
36	h	103	LHG	C8-C7-O7-C5
37	D	410	LMG	C11-C10-O7-C8
37	d	410	LMG	C11-C10-O7-C8
42	5	301	A86	O5-C38-O4-C34
42	7	302	A86	O5-C38-O4-C34
42	4	203	A86	O5-C38-O4-C34
42	9	203	A86	O5-C38-O4-C34
42	8	302	A86	O5-C38-O4-C34
42	0	301	A86	O5-C38-O4-C34
42	2	302	A86	O5-C38-O4-C34
31	B	503	CLA	CBD-CGD-O2D-CED
31	Z	101	CLA	CBD-CGD-O2D-CED
31	b	504	CLA	CBD-CGD-O2D-CED
31	z	101	CLA	CBD-CGD-O2D-CED
42	4	202	A86	C35-C34-O4-C38

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Mol	Chain	Res	Type	Atoms
36	A	412	LHG	C32-C33-C34-C35
36	a	411	LHG	C32-C33-C34-C35
37	C	521	LMG	C19-C20-C21-C22
37	J	101	LMG	C17-C18-C19-C20
37	c	521	LMG	C19-C20-C21-C22
37	j	101	LMG	C17-C18-C19-C20
37	D	408	LMG	O6-C5-C6-O5
37	d	408	LMG	O6-C5-C6-O5
31	C	505	CLA	CBD-CGD-O2D-CED
31	c	505	CLA	CBD-CGD-O2D-CED
37	J	101	LMG	O6-C5-C6-O5
37	j	101	LMG	O6-C5-C6-O5
37	D	408	LMG	O9-C10-O7-C8
31	D	404	CLA	O1A-CGA-O2A-C1
31	d	404	CLA	O1A-CGA-O2A-C1
36	H	103	LHG	O10-C23-O8-C6
36	h	103	LHG	O10-C23-O8-C6
39	C	519	DGD	O1A-C1A-O1G-C1G
39	c	519	DGD	O1A-C1A-O1G-C1G
31	B	503	CLA	C4-C3-C5-C6
31	b	504	CLA	C4-C3-C5-C6
31	B	503	CLA	C2-C3-C5-C6
31	b	504	CLA	C2-C3-C5-C6
42	9	202	A86	C35-C34-O4-C38
37	W	201	LMG	O6-C5-C6-O5
37	w	201	LMG	O6-C5-C6-O5
35	A	410	PL9	C9-C11-C12-C13
35	A	410	PL9	C14-C16-C17-C18
35	D	406	PL9	C39-C41-C42-C43
35	a	410	PL9	C9-C11-C12-C13
35	a	410	PL9	C14-C16-C17-C18
35	d	406	PL9	C39-C41-C42-C43
31	6	210	CLA	CBA-CGA-O2A-C1
31	1	210	CLA	CBA-CGA-O2A-C1
36	D	407	LHG	C23-C24-C25-C26
36	d	407	LHG	C23-C24-C25-C26
37	J	101	LMG	C23-C24-C25-C26
37	j	101	LMG	C23-C24-C25-C26
31	B	507	CLA	O1D-CGD-O2D-CED
31	C	507	CLA	O1D-CGD-O2D-CED
31	b	508	CLA	O1D-CGD-O2D-CED
31	c	507	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
36	A	412	LHG	C1-C2-C3-O3
36	D	407	LHG	C1-C2-C3-O3
36	a	411	LHG	C1-C2-C3-O3
36	d	407	LHG	C1-C2-C3-O3
35	A	410	PL9	C17-C18-C19-C21
35	a	410	PL9	C17-C18-C19-C21
31	6	210	CLA	O1A-CGA-O2A-C1
31	1	210	CLA	O1A-CGA-O2A-C1
37	D	410	LMG	O10-C28-O8-C9
37	d	410	LMG	O10-C28-O8-C9
31	6	201	CLA	O1D-CGD-O2D-CED
31	1	201	CLA	O1D-CGD-O2D-CED
36	D	412	LHG	C24-C23-O8-C6
36	d	412	LHG	C24-C23-O8-C6
37	D	410	LMG	C29-C28-O8-C9
37	d	410	LMG	C29-C28-O8-C9
39	C	519	DGD	C2A-C1A-O1G-C1G
39	c	519	DGD	C2A-C1A-O1G-C1G
31	C	502	CLA	CBD-CGD-O2D-CED
31	c	502	CLA	CBD-CGD-O2D-CED
37	5	315	LMG	C28-C29-C30-C31
37	0	315	LMG	C28-C29-C30-C31
34	A	411	SQD	C9-C10-C11-C12
34	B	522	SQD	C9-C10-C11-C12
37	C	521	LMG	C34-C35-C36-C37
37	c	521	LMG	C34-C35-C36-C37
36	A	413	LHG	O6-C4-C5-O7
36	a	412	LHG	O6-C4-C5-O7
37	J	101	LMG	C11-C12-C13-C14
37	j	101	LMG	C11-C12-C13-C14
31	B	514	CLA	C8-C10-C11-C12
31	B	515	CLA	C15-C16-C17-C18
31	b	515	CLA	C8-C10-C11-C12
31	b	516	CLA	C15-C16-C17-C18
36	A	412	LHG	O2-C2-C3-O3
36	a	411	LHG	O2-C2-C3-O3
37	5	315	LMG	C2-C1-O1-C7
37	0	315	LMG	C2-C1-O1-C7
31	B	502	CLA	C11-C12-C13-C14
31	B	504	CLA	C14-C13-C15-C16
31	B	505	CLA	C14-C13-C15-C16
31	B	514	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
31	B	516	CLA	C6-C7-C8-C9
31	C	508	CLA	C11-C10-C8-C9
31	C	508	CLA	C11-C12-C13-C14
31	C	510	CLA	C6-C7-C8-C9
31	b	503	CLA	C11-C12-C13-C14
31	b	505	CLA	C14-C13-C15-C16
31	b	506	CLA	C14-C13-C15-C16
31	b	515	CLA	C11-C10-C8-C9
31	b	517	CLA	C6-C7-C8-C9
31	c	508	CLA	C11-C10-C8-C9
31	c	508	CLA	C11-C12-C13-C14
31	c	510	CLA	C6-C7-C8-C9
31	5	308	CLA	C11-C10-C8-C9
31	7	309	CLA	C6-C7-C8-C9
31	6	210	CLA	C11-C12-C13-C14
31	0	308	CLA	C11-C10-C8-C9
31	2	309	CLA	C6-C7-C8-C9
31	1	210	CLA	C11-C12-C13-C14
31	p	602	CLA	O1D-CGD-O2D-CED
31	P	602	CLA	O1D-CGD-O2D-CED
33	B	519	BCR	C37-C22-C23-C24
33	C	516	BCR	C37-C22-C23-C24
33	b	520	BCR	C37-C22-C23-C24
33	c	516	BCR	C37-C22-C23-C24
44	7	303	DD6	C12-C11-C13-C14
44	6	203	DD6	C12-C11-C13-C14
44	2	303	DD6	C12-C11-C13-C14
44	1	203	DD6	C12-C11-C13-C14
33	C	516	BCR	C21-C22-C23-C24
33	K	101	BCR	C7-C8-C9-C10
33	c	516	BCR	C21-C22-C23-C24
33	k	101	BCR	C7-C8-C9-C10
44	7	303	DD6	C10-C11-C13-C14
44	6	203	DD6	C10-C11-C13-C14
44	6	204	DD6	C10-C11-C13-C14
44	2	303	DD6	C10-C11-C13-C14
44	1	203	DD6	C10-C11-C13-C14
44	1	204	DD6	C10-C11-C13-C14
37	M	102	LMG	C11-C10-O7-C8
37	m	102	LMG	C11-C10-O7-C8
34	A	409	SQD	C7-C8-C9-C10
34	a	409	SQD	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
37	M	102	LMG	C28-C29-C30-C31
37	m	102	LMG	C28-C29-C30-C31
31	B	504	CLA	C13-C15-C16-C17
31	b	505	CLA	C15-C16-C17-C18
31	C	505	CLA	CBA-CGA-O2A-C1
31	c	505	CLA	CBA-CGA-O2A-C1
41	F	101	HEM	C2A-CAA-CBA-CGA
41	f	101	HEM	C2A-CAA-CBA-CGA
31	B	504	CLA	C15-C16-C17-C18
31	B	508	CLA	C15-C16-C17-C18
31	b	505	CLA	C13-C15-C16-C17
31	b	509	CLA	C15-C16-C17-C18
39	h	102	DGD	O6E-C5E-C6E-O5E
37	D	410	LMG	C28-C29-C30-C31
37	d	410	LMG	C28-C29-C30-C31
31	6	209	CLA	CBD-CGD-O2D-CED
31	1	209	CLA	CBD-CGD-O2D-CED
39	H	102	DGD	O6E-C5E-C6E-O5E
31	5	307	CLA	C8-C10-C11-C12
31	7	310	CLA	C5-C6-C7-C8
31	0	307	CLA	C8-C10-C11-C12
31	2	310	CLA	C5-C6-C7-C8
37	C	521	LMG	C17-C18-C19-C20
37	J	101	LMG	C19-C20-C21-C22
37	c	521	LMG	C17-C18-C19-C20
37	j	101	LMG	C19-C20-C21-C22
34	5	316	SQD	C7-C8-C9-C10
34	0	316	SQD	C7-C8-C9-C10
36	A	413	LHG	C7-C8-C9-C10
36	D	407	LHG	C7-C8-C9-C10
36	a	412	LHG	C7-C8-C9-C10
36	d	407	LHG	C7-C8-C9-C10
37	J	101	LMG	C28-C29-C30-C31
37	j	101	LMG	C28-C29-C30-C31
34	5	316	SQD	C31-C32-C33-C34
34	0	316	SQD	C31-C32-C33-C34
37	C	521	LMG	C38-C39-C40-C41
37	c	521	LMG	C38-C39-C40-C41
37	W	201	LMG	O9-C10-O7-C8
37	w	201	LMG	O9-C10-O7-C8
36	B	521	LHG	C23-C24-C25-C26
36	b	522	LHG	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
37	D	408	LMG	C10-C11-C12-C13
37	d	408	LMG	C10-C11-C12-C13
31	7	309	CLA	C11-C10-C8-C7
31	2	309	CLA	C11-C10-C8-C7
44	7	304	DD6	C1-C2-C3-C4
44	6	204	DD6	C11-C10-C9-C8
44	2	304	DD6	C1-C2-C3-C4
44	1	204	DD6	C11-C10-C9-C8
31	B	505	CLA	C5-C6-C7-C8
31	C	505	CLA	C13-C15-C16-C17
31	b	506	CLA	C5-C6-C7-C8
31	c	505	CLA	C13-C15-C16-C17
31	c	508	CLA	C15-C16-C17-C18
31	5	308	CLA	C5-C6-C7-C8
31	0	308	CLA	C5-C6-C7-C8
39	C	518	DGD	O6D-C1D-O3G-C3G
39	C	519	DGD	O6E-C1E-O5D-C6D
39	c	518	DGD	O6D-C1D-O3G-C3G
39	c	519	DGD	O6E-C1E-O5D-C6D
34	5	316	SQD	C27-C28-C29-C30
34	0	316	SQD	C27-C28-C29-C30
33	B	519	BCR	C18-C19-C20-C21
33	b	520	BCR	C18-C19-C20-C21
37	B	520	LMG	O6-C5-C6-O5
37	b	521	LMG	O6-C5-C6-O5
42	4	201	A86	C35-C34-O4-C38
42	9	201	A86	C35-C34-O4-C38
31	B	513	CLA	C13-C15-C16-C17
31	C	508	CLA	C15-C16-C17-C18
31	b	514	CLA	C13-C15-C16-C17
31	6	211	CLA	C5-C6-C7-C8
31	1	211	CLA	C5-C6-C7-C8
31	B	513	CLA	C8-C10-C11-C12
31	C	508	CLA	C13-C15-C16-C17
31	b	514	CLA	C8-C10-C11-C12
31	c	508	CLA	C13-C15-C16-C17
31	5	305	CLA	C5-C6-C7-C8
31	0	305	CLA	C5-C6-C7-C8
31	C	505	CLA	O1A-CGA-O2A-C1
31	c	505	CLA	O1A-CGA-O2A-C1
36	D	412	LHG	C8-C7-O7-C5
36	d	412	LHG	C8-C7-O7-C5

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Mol	Chain	Res	Type	Atoms
34	0	316	SQD	C35-C36-C37-C38
31	A	403	CLA	C13-C15-C16-C17
31	B	509	CLA	C15-C16-C17-C18
31	B	510	CLA	C15-C16-C17-C18
31	D	403	CLA	C15-C16-C17-C18
31	a	403	CLA	C13-C15-C16-C17
31	b	510	CLA	C15-C16-C17-C18
31	b	511	CLA	C15-C16-C17-C18
31	d	403	CLA	C15-C16-C17-C18
36	A	413	LHG	C4-O6-P-O3
36	B	521	LHG	C3-O3-P-O6
36	D	411	LHG	C3-O3-P-O6
36	a	412	LHG	C4-O6-P-O3
36	b	522	LHG	C3-O3-P-O6
36	d	411	LHG	C3-O3-P-O6
34	5	316	SQD	C35-C36-C37-C38
31	7	310	CLA	CBA-CGA-O2A-C1
31	2	310	CLA	CBA-CGA-O2A-C1
31	B	504	CLA	CBD-CGD-O2D-CED
31	b	505	CLA	CBD-CGD-O2D-CED
31	C	512	CLA	C3-C5-C6-C7
31	c	512	CLA	C3-C5-C6-C7
36	d	411	LHG	C7-C8-C9-C10
36	D	407	LHG	C32-C33-C34-C35
36	d	407	LHG	C32-C33-C34-C35
37	y	101	LMG	C11-C12-C13-C14
44	7	304	DD6	C11-C10-C9-C8
44	7	304	DD6	C3-C4-C5-C6
44	2	304	DD6	C11-C10-C9-C8
44	2	304	DD6	C3-C4-C5-C6
36	D	411	LHG	C7-C8-C9-C10
36	B	521	LHG	C12-C13-C14-C15
36	D	407	LHG	C13-C14-C15-C16
36	D	411	LHG	C16-C17-C18-C19
36	b	522	LHG	C12-C13-C14-C15
36	d	407	LHG	C13-C14-C15-C16
36	d	411	LHG	C16-C17-C18-C19
37	C	521	LMG	C36-C37-C38-C39
37	J	101	LMG	C21-C22-C23-C24
37	Y	101	LMG	C11-C12-C13-C14
37	c	521	LMG	C36-C37-C38-C39
37	j	101	LMG	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
31	7	307	CLA	O1D-CGD-O2D-CED
31	0	304	CLA	O1D-CGD-O2D-CED
31	2	307	CLA	O1D-CGD-O2D-CED
33	B	517	BCR	C20-C21-C22-C37
33	K	101	BCR	C11-C10-C9-C34
33	K	101	BCR	C35-C13-C14-C15
33	b	518	BCR	C20-C21-C22-C37
33	k	101	BCR	C11-C10-C9-C34
33	k	101	BCR	C35-C13-C14-C15
36	B	521	LHG	C31-C32-C33-C34
36	b	522	LHG	C31-C32-C33-C34
37	D	408	LMG	C18-C19-C20-C21
37	M	101	LMG	C33-C34-C35-C36
37	W	201	LMG	C12-C13-C14-C15
37	W	201	LMG	C30-C31-C32-C33
37	d	408	LMG	C18-C19-C20-C21
37	m	101	LMG	C33-C34-C35-C36
37	w	201	LMG	C12-C13-C14-C15
37	w	201	LMG	C30-C31-C32-C33
39	C	519	DGD	C4B-C5B-C6B-C7B
39	c	519	DGD	C4B-C5B-C6B-C7B
31	B	511	CLA	O1D-CGD-O2D-CED
31	b	512	CLA	O1D-CGD-O2D-CED
31	5	304	CLA	O1D-CGD-O2D-CED
31	5	308	CLA	O1D-CGD-O2D-CED
31	0	308	CLA	O1D-CGD-O2D-CED
31	C	506	CLA	C16-C17-C18-C19
31	c	506	CLA	C16-C17-C18-C19
34	A	409	SQD	C14-C15-C16-C17
34	A	409	SQD	C27-C28-C29-C30
34	a	409	SQD	C14-C15-C16-C17
34	a	409	SQD	C27-C28-C29-C30
37	Y	101	LMG	C30-C31-C32-C33
37	y	101	LMG	C30-C31-C32-C33
39	C	518	DGD	C6B-C7B-C8B-C9B
39	c	518	DGD	C6B-C7B-C8B-C9B
39	C	519	DGD	C3G-C2G-O2G-C1B
39	c	519	DGD	C3G-C2G-O2G-C1B
31	c	503	CLA	O1D-CGD-O2D-CED
37	M	102	LMG	C34-C35-C36-C37
37	m	102	LMG	C34-C35-C36-C37
39	H	102	DGD	C7A-C8A-C9A-CAA

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Mol	Chain	Res	Type	Atoms
39	h	102	DGD	C7A-C8A-C9A-CAA
31	C	503	CLA	O1D-CGD-O2D-CED
35	A	410	PL9	C22-C23-C24-C26
35	a	410	PL9	C22-C23-C24-C26
37	C	521	LMG	C13-C14-C15-C16
37	D	408	LMG	C32-C33-C34-C35
37	D	409	LMG	C29-C30-C31-C32
37	J	101	LMG	C35-C36-C37-C38
37	c	521	LMG	C13-C14-C15-C16
37	d	408	LMG	C32-C33-C34-C35
37	d	409	LMG	C29-C30-C31-C32
37	j	101	LMG	C35-C36-C37-C38
37	C	521	LMG	C32-C33-C34-C35
37	c	521	LMG	C32-C33-C34-C35
39	H	102	DGD	C4B-C5B-C6B-C7B
34	A	411	SQD	C7-C8-C9-C10
34	B	522	SQD	C7-C8-C9-C10
36	d	412	LHG	C23-C24-C25-C26
39	C	518	DGD	C2D-C1D-O3G-C3G
39	C	519	DGD	C2E-C1E-O5D-C6D
39	c	518	DGD	C2D-C1D-O3G-C3G
39	c	519	DGD	C2E-C1E-O5D-C6D
36	D	411	LHG	C9-C10-C11-C12
36	d	411	LHG	C9-C10-C11-C12
37	D	408	LMG	C17-C18-C19-C20
37	D	409	LMG	C32-C33-C34-C35
37	d	408	LMG	C17-C18-C19-C20
37	d	409	LMG	C32-C33-C34-C35
37	5	315	LMG	C31-C32-C33-C34
37	0	315	LMG	C31-C32-C33-C34
39	h	102	DGD	C4B-C5B-C6B-C7B
31	B	515	CLA	C16-C17-C18-C19
31	b	516	CLA	C16-C17-C18-C19
32	A	405	PHO	C4-C3-C5-C6
32	a	405	PHO	C4-C3-C5-C6
31	D	403	CLA	C12-C13-C15-C16
31	d	403	CLA	C12-C13-C15-C16
34	A	409	SQD	C11-C10-C9-C8
34	a	409	SQD	C11-C10-C9-C8
37	C	521	LMG	C11-C12-C13-C14
37	W	201	LMG	C35-C36-C37-C38
37	Y	101	LMG	C39-C40-C41-C42

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Mol	Chain	Res	Type	Atoms
37	c	521	LMG	C11-C12-C13-C14
37	w	201	LMG	C35-C36-C37-C38
37	y	101	LMG	C39-C40-C41-C42
32	A	405	PHO	C2-C3-C5-C6
32	a	405	PHO	C2-C3-C5-C6
31	B	509	CLA	C6-C7-C8-C9
31	C	505	CLA	C11-C12-C13-C14
31	C	511	CLA	C14-C13-C15-C16
31	b	510	CLA	C6-C7-C8-C9
31	c	505	CLA	C11-C12-C13-C14
31	c	511	CLA	C14-C13-C15-C16
31	6	210	CLA	C14-C13-C15-C16
31	1	210	CLA	C14-C13-C15-C16
32	A	405	PHO	C14-C13-C15-C16
32	a	405	PHO	C14-C13-C15-C16
42	p	610	A86	C33-C34-O4-C38
42	P	610	A86	C33-C34-O4-C38
36	D	412	LHG	C23-C24-C25-C26
37	J	101	LMG	C16-C17-C18-C19
37	Y	101	LMG	C34-C35-C36-C37
37	j	101	LMG	C16-C17-C18-C19
39	C	518	DGD	C2B-C3B-C4B-C5B
39	c	518	DGD	C2B-C3B-C4B-C5B
31	D	403	CLA	C8-C10-C11-C12
31	d	403	CLA	C8-C10-C11-C12
44	7	304	DD6	C7-C6-C8-C9
44	2	304	DD6	C7-C6-C8-C9
37	Y	101	LMG	C31-C32-C33-C34
37	y	101	LMG	C31-C32-C33-C34
37	y	101	LMG	C34-C35-C36-C37
39	C	519	DGD	CBA-CCA-CDA-CEA
39	c	519	DGD	CBA-CCA-CDA-CEA
36	A	413	LHG	O1-C1-C2-C3
36	D	411	LHG	O1-C1-C2-C3
36	a	412	LHG	O1-C1-C2-C3
36	d	411	LHG	O1-C1-C2-C3
44	7	304	DD6	C5-C6-C8-C9
44	2	304	DD6	C5-C6-C8-C9
34	A	409	SQD	C12-C13-C14-C15
34	a	409	SQD	C12-C13-C14-C15
37	M	101	LMG	C17-C18-C19-C20
37	M	101	LMG	C31-C32-C33-C34

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Mol	Chain	Res	Type	Atoms
37	W	201	LMG	C32-C33-C34-C35
37	m	101	LMG	C17-C18-C19-C20
37	m	101	LMG	C31-C32-C33-C34
37	w	201	LMG	C32-C33-C34-C35
36	A	412	LHG	C7-C8-C9-C10
36	a	411	LHG	C7-C8-C9-C10
31	C	512	CLA	O1D-CGD-O2D-CED
31	c	512	CLA	O1D-CGD-O2D-CED
34	B	523	SQD	C27-C28-C29-C30
34	b	501	SQD	C27-C28-C29-C30
34	5	316	SQD	C10-C11-C12-C13
34	0	316	SQD	C10-C11-C12-C13
37	D	409	LMG	C31-C32-C33-C34
37	d	409	LMG	C31-C32-C33-C34
37	y	101	LMG	C12-C13-C14-C15
37	5	315	LMG	C29-C30-C31-C32
37	5	315	LMG	C33-C34-C35-C36
37	0	315	LMG	C29-C30-C31-C32
37	0	315	LMG	C30-C31-C32-C33
37	0	315	LMG	C33-C34-C35-C36
39	H	102	DGD	CCA-CDA-CEA-CFA
39	h	102	DGD	CCA-CDA-CEA-CFA
31	A	403	CLA	C16-C17-C18-C20
31	A	407	CLA	C11-C12-C13-C14
31	C	506	CLA	C16-C17-C18-C20
31	a	403	CLA	C16-C17-C18-C20
31	a	407	CLA	C11-C12-C13-C14
31	c	506	CLA	C16-C17-C18-C20
34	5	316	SQD	C11-C12-C13-C14
34	0	316	SQD	C11-C12-C13-C14
37	Y	101	LMG	C12-C13-C14-C15
37	Y	101	LMG	C14-C15-C16-C17
37	5	315	LMG	C30-C31-C32-C33
39	H	102	DGD	C3B-C4B-C5B-C6B
39	h	102	DGD	C3B-C4B-C5B-C6B
37	D	408	LMG	C16-C17-C18-C19
37	d	408	LMG	C16-C17-C18-C19
37	y	101	LMG	C14-C15-C16-C17
34	5	316	SQD	C23-C24-C25-C26
34	0	316	SQD	C23-C24-C25-C26
36	A	412	LHG	C27-C28-C29-C30
36	D	411	LHG	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
36	a	411	LHG	C27-C28-C29-C30
37	Y	101	LMG	C13-C14-C15-C16
37	w	201	LMG	C31-C32-C33-C34
37	y	101	LMG	C13-C14-C15-C16
39	C	518	DGD	C5B-C6B-C7B-C8B
39	H	102	DGD	CBA-CCA-CDA-CEA
39	c	518	DGD	C5B-C6B-C7B-C8B
39	h	102	DGD	CBA-CCA-CDA-CEA
36	d	411	LHG	C15-C16-C17-C18
37	W	201	LMG	C31-C32-C33-C34
31	A	403	CLA	C3A-C2A-CAA-CBA
31	B	502	CLA	C3A-C2A-CAA-CBA
31	B	516	CLA	C3A-C2A-CAA-CBA
31	a	403	CLA	C3A-C2A-CAA-CBA
31	b	503	CLA	C3A-C2A-CAA-CBA
31	b	517	CLA	C3A-C2A-CAA-CBA
31	5	307	CLA	C3A-C2A-CAA-CBA
31	5	311	CLA	C3A-C2A-CAA-CBA
31	7	308	CLA	C3A-C2A-CAA-CBA
31	6	209	CLA	C3A-C2A-CAA-CBA
31	6	210	CLA	C3A-C2A-CAA-CBA
31	0	307	CLA	C3A-C2A-CAA-CBA
31	0	311	CLA	C3A-C2A-CAA-CBA
31	2	308	CLA	C3A-C2A-CAA-CBA
31	1	209	CLA	C3A-C2A-CAA-CBA
31	1	210	CLA	C3A-C2A-CAA-CBA
39	C	519	DGD	C8A-C9A-CAA-CBA
39	c	519	DGD	C8A-C9A-CAA-CBA
31	7	310	CLA	O1A-CGA-O2A-C1
31	B	515	CLA	C16-C17-C18-C20
31	b	516	CLA	C16-C17-C18-C20
31	7	310	CLA	C6-C7-C8-C10
31	2	310	CLA	C6-C7-C8-C10
34	A	409	SQD	C31-C32-C33-C34
34	a	409	SQD	C31-C32-C33-C34
36	B	521	LHG	C24-C25-C26-C27
36	b	522	LHG	C24-C25-C26-C27
36	d	407	LHG	C27-C28-C29-C30
37	J	101	LMG	C20-C21-C22-C23
37	M	101	LMG	C38-C39-C40-C41
37	m	101	LMG	C38-C39-C40-C41
39	C	519	DGD	C8B-C9B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
39	c	519	DGD	C8B-C9B-CAB-CBB
31	B	514	CLA	CBD-CGD-O2D-CED
31	b	515	CLA	CBD-CGD-O2D-CED
31	6	206	CLA	CBD-CGD-O2D-CED
31	1	206	CLA	CBD-CGD-O2D-CED
36	D	407	LHG	C27-C28-C29-C30
37	j	101	LMG	C20-C21-C22-C23
39	H	102	DGD	C2B-C3B-C4B-C5B
39	h	102	DGD	C2B-C3B-C4B-C5B
37	M	101	LMG	C28-C29-C30-C31
37	m	101	LMG	C28-C29-C30-C31
31	2	310	CLA	O1A-CGA-O2A-C1
37	Y	101	LMG	C11-C10-O7-C8
37	y	101	LMG	C11-C10-O7-C8
37	M	101	LMG	C19-C20-C21-C22
37	m	101	LMG	C19-C20-C21-C22
31	C	502	CLA	C2A-CAA-CBA-CGA
31	c	502	CLA	C2A-CAA-CBA-CGA
37	M	101	LMG	C30-C31-C32-C33
37	m	101	LMG	C30-C31-C32-C33
37	M	102	LMG	O6-C5-C6-O5
37	m	102	LMG	O6-C5-C6-O5
37	M	102	LMG	C30-C31-C32-C33
37	m	102	LMG	C30-C31-C32-C33
37	d	408	LMG	C30-C31-C32-C33
31	C	503	CLA	C11-C10-C8-C7
31	c	503	CLA	C11-C10-C8-C7
36	B	521	LHG	C27-C28-C29-C30
36	b	522	LHG	C27-C28-C29-C30
37	D	408	LMG	C30-C31-C32-C33
31	C	505	CLA	C11-C10-C8-C7
31	c	505	CLA	C11-C10-C8-C7
36	B	521	LHG	C32-C33-C34-C35
36	b	522	LHG	C32-C33-C34-C35
37	J	101	LMG	C18-C19-C20-C21
37	j	101	LMG	C18-C19-C20-C21
39	C	518	DGD	C7B-C8B-C9B-CAB
39	c	518	DGD	C7B-C8B-C9B-CAB
33	B	517	BCR	C1-C6-C7-C8
33	B	517	BCR	C5-C6-C7-C8
33	C	517	BCR	C5-C6-C7-C8
33	b	518	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
33	b	518	BCR	C5-C6-C7-C8
33	c	517	BCR	C5-C6-C7-C8
31	C	509	CLA	CBA-CGA-O2A-C1
31	c	509	CLA	CBA-CGA-O2A-C1
31	C	513	CLA	C15-C16-C17-C18
31	c	513	CLA	C15-C16-C17-C18
36	D	411	LHG	C10-C11-C12-C13
36	d	411	LHG	C10-C11-C12-C13
39	H	102	DGD	C1A-C2A-C3A-C4A
39	h	102	DGD	C1A-C2A-C3A-C4A
37	D	409	LMG	C12-C13-C14-C15
37	d	409	LMG	C12-C13-C14-C15
31	B	505	CLA	C4-C3-C5-C6
31	b	506	CLA	C4-C3-C5-C6
31	5	305	CLA	C4-C3-C5-C6
31	0	305	CLA	C4-C3-C5-C6
31	B	502	CLA	C11-C12-C13-C15
31	C	508	CLA	C11-C10-C8-C7
31	C	508	CLA	C11-C12-C13-C15
31	C	510	CLA	C6-C7-C8-C10
31	C	511	CLA	C12-C13-C15-C16
31	b	503	CLA	C11-C12-C13-C15
31	c	508	CLA	C11-C10-C8-C7
31	c	508	CLA	C11-C12-C13-C15
31	c	510	CLA	C6-C7-C8-C10
31	c	511	CLA	C12-C13-C15-C16
31	5	305	CLA	C2-C3-C5-C6
31	6	210	CLA	C11-C12-C13-C15
31	6	210	CLA	C12-C13-C15-C16
31	0	305	CLA	C2-C3-C5-C6
31	1	210	CLA	C11-C12-C13-C15
31	1	210	CLA	C12-C13-C15-C16
31	5	305	CLA	CBD-CGD-O2D-CED
31	5	311	CLA	CBD-CGD-O2D-CED
31	0	311	CLA	CBD-CGD-O2D-CED
37	M	102	LMG	O9-C10-O7-C8
37	m	102	LMG	O9-C10-O7-C8
37	W	201	LMG	C10-C11-C12-C13
37	w	201	LMG	C10-C11-C12-C13
31	C	513	CLA	CBA-CGA-O2A-C1
31	c	513	CLA	CBA-CGA-O2A-C1
31	B	503	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
31	b	504	CLA	C2A-CAA-CBA-CGA
31	5	310	CLA	C2A-CAA-CBA-CGA
31	0	310	CLA	C2A-CAA-CBA-CGA
31	C	509	CLA	C5-C6-C7-C8
31	c	509	CLA	C5-C6-C7-C8
37	M	102	LMG	C29-C30-C31-C32
37	m	102	LMG	C29-C30-C31-C32
31	7	311	CLA	C2A-CAA-CBA-CGA
31	2	311	CLA	C2A-CAA-CBA-CGA
31	Z	101	CLA	O1D-CGD-O2D-CED
31	0	305	CLA	CBD-CGD-O2D-CED
37	D	410	LMG	C30-C31-C32-C33
37	d	410	LMG	C30-C31-C32-C33
39	c	520	DGD	C9A-CAA-CBA-CCA
31	z	101	CLA	O1D-CGD-O2D-CED
34	A	411	SQD	C28-C29-C30-C31
37	D	408	LMG	C33-C34-C35-C36
37	d	408	LMG	C33-C34-C35-C36
39	C	520	DGD	C9A-CAA-CBA-CCA
35	D	406	PL9	C37-C38-C39-C40
35	d	406	PL9	C37-C38-C39-C40
34	B	522	SQD	C28-C29-C30-C31
31	5	307	CLA	C10-C11-C12-C13
31	0	307	CLA	C10-C11-C12-C13
39	C	519	DGD	C3B-C4B-C5B-C6B
39	c	519	DGD	C3B-C4B-C5B-C6B
34	A	409	SQD	C8-C7-O47-C45
34	a	409	SQD	C8-C7-O47-C45
37	B	520	LMG	C11-C10-O7-C8
37	b	521	LMG	C11-C10-O7-C8
39	C	520	DGD	C2B-C1B-O2G-C2G
39	c	520	DGD	C2B-C1B-O2G-C2G
31	D	404	CLA	C10-C11-C12-C13
31	d	404	CLA	C10-C11-C12-C13
31	B	510	CLA	CBD-CGD-O2D-CED
31	b	511	CLA	CBD-CGD-O2D-CED
37	D	410	LMG	C32-C33-C34-C35
36	D	407	LHG	C15-C16-C17-C18
37	d	410	LMG	C32-C33-C34-C35
37	C	521	LMG	C2-C1-O1-C7
37	c	521	LMG	C2-C1-O1-C7
34	A	409	SQD	O6-C44-C45-O47

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Mol	Chain	Res	Type	Atoms
34	a	409	SQD	O6-C44-C45-O47
31	B	511	CLA	C10-C11-C12-C13
31	b	512	CLA	C10-C11-C12-C13
36	D	407	LHG	C14-C15-C16-C17
36	d	407	LHG	C14-C15-C16-C17
36	d	407	LHG	C15-C16-C17-C18
31	7	310	CLA	C6-C7-C8-C9
31	2	310	CLA	C6-C7-C8-C9
31	B	511	CLA	C13-C15-C16-C17
31	b	512	CLA	C13-C15-C16-C17
34	A	411	SQD	C33-C34-C35-C36
34	B	522	SQD	C33-C34-C35-C36
35	A	410	PL9	C15-C14-C16-C17
35	a	410	PL9	C15-C14-C16-C17
37	D	409	LMG	C10-C11-C12-C13
37	d	409	LMG	C10-C11-C12-C13
35	D	406	PL9	C38-C39-C41-C42
35	d	406	PL9	C38-C39-C41-C42
35	A	410	PL9	C4-C3-C7-C8
35	a	410	PL9	C4-C3-C7-C8
34	B	523	SQD	C9-C10-C11-C12
34	b	501	SQD	C9-C10-C11-C12
31	C	503	CLA	C14-C13-C15-C16
31	c	503	CLA	C14-C13-C15-C16
31	5	307	CLA	C2A-CAA-CBA-CGA
31	0	307	CLA	C2A-CAA-CBA-CGA
36	B	521	LHG	C30-C31-C32-C33
36	D	412	LHG	C28-C29-C30-C31
36	b	522	LHG	C30-C31-C32-C33
31	C	509	CLA	O1A-CGA-O2A-C1
31	c	509	CLA	O1A-CGA-O2A-C1
31	A	403	CLA	C1A-C2A-CAA-CBA
31	B	501	CLA	C1A-C2A-CAA-CBA
31	B	502	CLA	C1A-C2A-CAA-CBA
31	B	516	CLA	C1A-C2A-CAA-CBA
31	C	502	CLA	C1A-C2A-CAA-CBA
31	D	401	CLA	C1A-C2A-CAA-CBA
31	Z	101	CLA	C1A-C2A-CAA-CBA
31	a	403	CLA	C1A-C2A-CAA-CBA
31	b	502	CLA	C1A-C2A-CAA-CBA
31	b	503	CLA	C1A-C2A-CAA-CBA
31	b	517	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
31	c	502	CLA	C1A-C2A-CAA-CBA
31	d	401	CLA	C1A-C2A-CAA-CBA
31	z	101	CLA	C1A-C2A-CAA-CBA
31	5	311	CLA	C1A-C2A-CAA-CBA
31	7	306	CLA	C1A-C2A-CAA-CBA
31	7	308	CLA	C1A-C2A-CAA-CBA
31	7	309	CLA	C1A-C2A-CAA-CBA
31	0	311	CLA	C1A-C2A-CAA-CBA
31	2	306	CLA	C1A-C2A-CAA-CBA
31	2	308	CLA	C1A-C2A-CAA-CBA
31	2	309	CLA	C1A-C2A-CAA-CBA
31	A	407	CLA	C11-C12-C13-C15
31	a	407	CLA	C11-C12-C13-C15
36	D	412	LHG	O9-C7-O7-C5
36	d	412	LHG	O9-C7-O7-C5
39	C	520	DGD	O1B-C1B-O2G-C2G
39	c	520	DGD	O1B-C1B-O2G-C2G
36	d	412	LHG	C28-C29-C30-C31
37	W	201	LMG	C17-C18-C19-C20
37	w	201	LMG	C17-C18-C19-C20
43	5	302	ET4	C09-C10-C11-C12
43	0	302	ET4	C09-C10-C11-C12
31	B	503	CLA	O1D-CGD-O2D-CED
31	b	504	CLA	O1D-CGD-O2D-CED
31	C	506	CLA	C5-C6-C7-C8
31	c	506	CLA	C5-C6-C7-C8
31	6	210	CLA	C8-C10-C11-C12
31	1	210	CLA	C8-C10-C11-C12
42	6	202	A86	C35-C34-O4-C38
42	1	202	A86	C35-C34-O4-C38
37	D	409	LMG	C11-C12-C13-C14
37	d	409	LMG	C11-C12-C13-C14
31	6	210	CLA	C3-C5-C6-C7
31	1	210	CLA	C3-C5-C6-C7
36	D	412	LHG	C5-C4-O6-P
36	d	412	LHG	C5-C4-O6-P
31	C	505	CLA	O1D-CGD-O2D-CED
31	c	505	CLA	O1D-CGD-O2D-CED
37	J	101	LMG	C15-C16-C17-C18
37	j	101	LMG	C15-C16-C17-C18
37	5	315	LMG	C34-C35-C36-C37
37	0	315	LMG	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
39	H	102	DGD	C6A-C7A-C8A-C9A
39	h	102	DGD	C6A-C7A-C8A-C9A
31	C	506	CLA	CBA-CGA-O2A-C1
31	c	506	CLA	CBA-CGA-O2A-C1
36	D	411	LHG	O6-C4-C5-C6
36	D	412	LHG	O6-C4-C5-C6
36	d	411	LHG	O6-C4-C5-C6
36	d	412	LHG	O6-C4-C5-C6
37	J	101	LMG	C32-C33-C34-C35
37	j	101	LMG	C32-C33-C34-C35
37	5	315	LMG	C14-C15-C16-C17
37	0	315	LMG	C14-C15-C16-C17
31	A	403	CLA	C15-C16-C17-C18
31	A	403	CLA	C16-C17-C18-C19
31	a	403	CLA	C16-C17-C18-C19
31	B	502	CLA	C8-C10-C11-C12
31	b	503	CLA	C8-C10-C11-C12
37	C	521	LMG	C37-C38-C39-C40
37	c	521	LMG	C37-C38-C39-C40
37	j	101	LMG	C14-C15-C16-C17
31	a	403	CLA	C15-C16-C17-C18
37	J	101	LMG	C14-C15-C16-C17
31	B	509	CLA	C4-C3-C5-C6
31	B	511	CLA	C4-C3-C5-C6
31	b	510	CLA	C4-C3-C5-C6
31	b	512	CLA	C4-C3-C5-C6
31	6	210	CLA	C4-C3-C5-C6
31	1	210	CLA	C4-C3-C5-C6
32	A	405	PHO	C13-C15-C16-C17
32	a	405	PHO	C13-C15-C16-C17
36	D	407	LHG	C28-C29-C30-C31
36	d	407	LHG	C28-C29-C30-C31
37	M	101	LMG	C34-C35-C36-C37
37	m	101	LMG	C34-C35-C36-C37
31	c	513	CLA	O1A-CGA-O2A-C1
34	A	409	SQD	O6-C44-C45-C46
34	a	409	SQD	O6-C44-C45-C46
37	C	521	LMG	C7-C8-C9-O8
37	D	409	LMG	O1-C7-C8-C9
37	D	410	LMG	O1-C7-C8-C9
37	c	521	LMG	C7-C8-C9-O8
37	d	409	LMG	O1-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
37	d	410	LMG	O1-C7-C8-C9
37	5	315	LMG	C7-C8-C9-O8
37	0	315	LMG	C7-C8-C9-O8
39	C	518	DGD	O1G-C1G-C2G-C3G
39	c	518	DGD	O1G-C1G-C2G-C3G
31	B	504	CLA	C10-C11-C12-C13
31	b	505	CLA	C10-C11-C12-C13
37	D	409	LMG	C33-C34-C35-C36
37	d	409	LMG	C33-C34-C35-C36
31	C	513	CLA	O1A-CGA-O2A-C1
39	C	519	DGD	C5D-C6D-O5D-C1E
39	c	519	DGD	C5D-C6D-O5D-C1E
37	5	315	LMG	C41-C42-C43-C44
34	B	523	SQD	C7-C8-C9-C10
34	B	523	SQD	C23-C24-C25-C26
34	b	501	SQD	C7-C8-C9-C10
34	b	501	SQD	C23-C24-C25-C26
36	A	412	LHG	C23-C24-C25-C26
36	a	411	LHG	C23-C24-C25-C26
39	C	519	DGD	C1A-C2A-C3A-C4A
39	c	519	DGD	C1A-C2A-C3A-C4A
37	0	315	LMG	C41-C42-C43-C44
37	5	315	LMG	O6-C5-C6-O5
37	0	315	LMG	O6-C5-C6-O5
42	7	301	A86	C35-C34-O4-C38
42	2	301	A86	C35-C34-O4-C38
31	C	502	CLA	C10-C11-C12-C13
31	c	502	CLA	C10-C11-C12-C13
36	D	412	LHG	O10-C23-O8-C6
36	d	412	LHG	O10-C23-O8-C6
36	B	521	LHG	C7-C8-C9-C10
36	b	522	LHG	C7-C8-C9-C10
37	M	101	LMG	C11-C10-O7-C8
37	m	101	LMG	C11-C10-O7-C8
37	C	521	LMG	C35-C36-C37-C38
31	B	505	CLA	C15-C16-C17-C18
31	b	506	CLA	C15-C16-C17-C18
33	B	519	BCR	C20-C21-C22-C37
33	b	520	BCR	C20-C21-C22-C37
37	c	521	LMG	C35-C36-C37-C38
31	6	209	CLA	O1D-CGD-O2D-CED
36	D	407	LHG	C24-C23-O8-C6

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Mol	Chain	Res	Type	Atoms
36	d	407	LHG	C24-C23-O8-C6
31	B	502	CLA	C6-C7-C8-C10
31	B	508	CLA	CBD-CGD-O2D-CED
31	b	509	CLA	CBD-CGD-O2D-CED
42	0	301	A86	C35-C34-O4-C38
31	b	503	CLA	C6-C7-C8-C10
31	c	503	CLA	C6-C7-C8-C10
37	J	101	LMG	C37-C38-C39-C40
37	j	101	LMG	C37-C38-C39-C40
31	C	503	CLA	C6-C7-C8-C10
37	m	101	LMG	C15-C16-C17-C18
31	1	209	CLA	O1D-CGD-O2D-CED
37	M	101	LMG	C15-C16-C17-C18
39	H	102	DGD	C6B-C7B-C8B-C9B
39	h	102	DGD	C6B-C7B-C8B-C9B
31	C	502	CLA	O1D-CGD-O2D-CED
31	c	502	CLA	O1D-CGD-O2D-CED
36	D	412	LHG	O6-C4-C5-O7
36	d	412	LHG	O6-C4-C5-O7
31	C	506	CLA	O1A-CGA-O2A-C1
31	c	506	CLA	O1A-CGA-O2A-C1
31	B	504	CLA	C5-C6-C7-C8
31	b	505	CLA	C5-C6-C7-C8
37	5	315	LMG	C16-C17-C18-C19
37	0	315	LMG	C16-C17-C18-C19
37	5	315	LMG	O1-C7-C8-O7
37	0	315	LMG	O1-C7-C8-O7
42	5	301	A86	C35-C34-O4-C38
42	5	317	A86	C35-C34-O4-C38
42	0	317	A86	C35-C34-O4-C38
37	W	201	LMG	C33-C34-C35-C36
32	A	406	PHO	CHA-CBD-CGD-O1D
32	A	406	PHO	CHA-CBD-CGD-O2D
32	a	406	PHO	CHA-CBD-CGD-O1D
32	a	406	PHO	CHA-CBD-CGD-O2D
37	w	201	LMG	C33-C34-C35-C36
37	W	201	LMG	C40-C41-C42-C43
37	w	201	LMG	C40-C41-C42-C43
31	B	504	CLA	C12-C13-C15-C16
31	B	506	CLA	C11-C12-C13-C15
31	B	516	CLA	C6-C7-C8-C10
31	C	502	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
31	C	508	CLA	C12-C13-C15-C16
31	C	509	CLA	C12-C13-C15-C16
31	b	505	CLA	C12-C13-C15-C16
31	b	507	CLA	C11-C12-C13-C15
31	b	517	CLA	C6-C7-C8-C10
31	c	502	CLA	C11-C12-C13-C15
31	c	508	CLA	C12-C13-C15-C16
31	c	509	CLA	C12-C13-C15-C16
31	5	307	CLA	C11-C10-C8-C7
31	5	307	CLA	C11-C12-C13-C15
31	0	307	CLA	C11-C10-C8-C7
31	0	307	CLA	C11-C12-C13-C15
39	H	102	DGD	O2G-C1B-C2B-C3B
39	h	102	DGD	O2G-C1B-C2B-C3B
37	J	101	LMG	C30-C31-C32-C33
31	B	503	CLA	C6-C7-C8-C9
31	B	506	CLA	C11-C12-C13-C14
31	C	508	CLA	C14-C13-C15-C16
31	C	511	CLA	C6-C7-C8-C9
31	C	513	CLA	C11-C10-C8-C9
31	b	504	CLA	C6-C7-C8-C9
31	b	507	CLA	C11-C12-C13-C14
31	c	508	CLA	C14-C13-C15-C16
31	c	511	CLA	C6-C7-C8-C9
31	c	513	CLA	C11-C10-C8-C9
31	5	307	CLA	C11-C10-C8-C9
31	7	309	CLA	C11-C10-C8-C9
31	0	307	CLA	C11-C10-C8-C9
31	2	309	CLA	C11-C10-C8-C9
31	c	503	CLA	C8-C10-C11-C12
37	M	102	LMG	C11-C12-C13-C14
37	j	101	LMG	C30-C31-C32-C33
37	m	102	LMG	C11-C12-C13-C14
31	B	516	CLA	CBA-CGA-O2A-C1
31	b	517	CLA	CBA-CGA-O2A-C1
31	C	503	CLA	C13-C15-C16-C17
31	c	503	CLA	C13-C15-C16-C17
31	B	514	CLA	C12-C13-C15-C16
31	C	503	CLA	C8-C10-C11-C12
31	b	515	CLA	C12-C13-C15-C16
33	B	519	BCR	C7-C8-C9-C34
33	b	520	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
44	p	611	DD6	C-C1-C24-C25
44	P	611	DD6	C-C1-C24-C25
44	3	303	DD6	C10-C11-C13-C14
44	8	303	DD6	C10-C11-C13-C14
37	w	201	LMG	C29-C30-C31-C32
31	B	515	CLA	C10-C11-C12-C13
31	C	513	CLA	C13-C15-C16-C17
31	b	516	CLA	C10-C11-C12-C13
31	c	513	CLA	C13-C15-C16-C17
37	D	410	LMG	C15-C16-C17-C18
37	W	201	LMG	C29-C30-C31-C32
37	d	410	LMG	C15-C16-C17-C18
37	j	101	LMG	C24-C25-C26-C27
31	b	512	CLA	C8-C10-C11-C12
36	D	412	LHG	C26-C27-C28-C29
36	d	412	LHG	C26-C27-C28-C29
37	J	101	LMG	C24-C25-C26-C27
31	B	511	CLA	C8-C10-C11-C12
36	A	413	LHG	O6-C4-C5-C6
36	D	407	LHG	O6-C4-C5-C6
36	a	412	LHG	O6-C4-C5-C6
36	d	407	LHG	O6-C4-C5-C6
31	B	509	CLA	C2-C3-C5-C6
31	b	510	CLA	C2-C3-C5-C6
35	D	406	PL9	C13-C14-C16-C17
35	d	406	PL9	C13-C14-C16-C17
31	Z	101	CLA	C3A-C2A-CAA-CBA
31	z	101	CLA	C3A-C2A-CAA-CBA
31	3	307	CLA	C3A-C2A-CAA-CBA
31	8	307	CLA	C3A-C2A-CAA-CBA
41	V	201	HEM	C2A-CAA-CBA-CGA
41	v	201	HEM	C2A-CAA-CBA-CGA
35	D	406	PL9	C47-C48-C49-C51
35	d	406	PL9	C47-C48-C49-C51
34	b	501	SQD	C26-C27-C28-C29
36	B	521	LHG	C15-C16-C17-C18
36	b	522	LHG	C15-C16-C17-C18
37	Y	101	LMG	C29-C30-C31-C32
37	y	101	LMG	C29-C30-C31-C32
37	0	315	LMG	C32-C33-C34-C35
34	B	523	SQD	C26-C27-C28-C29
36	B	521	LHG	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
36	b	522	LHG	C28-C29-C30-C31
37	5	315	LMG	C32-C33-C34-C35
39	C	518	DGD	C6A-C7A-C8A-C9A
39	c	518	DGD	C6A-C7A-C8A-C9A
37	J	101	LMG	O1-C7-C8-C9
37	j	101	LMG	O1-C7-C8-C9
37	5	315	LMG	O1-C7-C8-C9
37	0	315	LMG	O1-C7-C8-C9
39	C	518	DGD	C1G-C2G-C3G-O3G
39	c	518	DGD	C1G-C2G-C3G-O3G
37	D	408	LMG	C35-C36-C37-C38
37	W	201	LMG	C19-C20-C21-C22
37	d	408	LMG	C35-C36-C37-C38
37	w	201	LMG	C19-C20-C21-C22
34	0	316	SQD	C12-C13-C14-C15
34	5	316	SQD	C12-C13-C14-C15
31	5	310	CLA	C4-C3-C5-C6
31	0	310	CLA	C4-C3-C5-C6
31	B	511	CLA	C2-C3-C5-C6
31	b	512	CLA	C2-C3-C5-C6
37	Y	101	LMG	C17-C18-C19-C20
37	y	101	LMG	C17-C18-C19-C20
37	D	410	LMG	C31-C32-C33-C34
37	d	410	LMG	C31-C32-C33-C34
36	D	407	LHG	O1-C1-C2-O2
36	d	407	LHG	O1-C1-C2-O2
39	C	518	DGD	C2A-C3A-C4A-C5A
39	c	518	DGD	C2A-C3A-C4A-C5A
31	b	505	CLA	O1D-CGD-O2D-CED
36	D	411	LHG	O7-C5-C6-O8
36	d	411	LHG	O7-C5-C6-O8
37	C	521	LMG	O1-C7-C8-O7
37	C	521	LMG	O7-C8-C9-O8
37	c	521	LMG	O1-C7-C8-O7
37	c	521	LMG	O7-C8-C9-O8
31	B	504	CLA	O1D-CGD-O2D-CED
36	D	407	LHG	C9-C10-C11-C12
36	d	407	LHG	C9-C10-C11-C12
37	m	102	LMG	C33-C34-C35-C36
42	5	317	A86	C10-C11-C13-C14
42	7	301	A86	C10-C11-C13-C14
42	7	302	A86	C10-C11-C13-C14

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Mol	Chain	Res	Type	Atoms
42	4	202	A86	C10-C11-C13-C14
42	3	302	A86	C10-C11-C13-C14
42	9	202	A86	C10-C11-C13-C14
42	8	302	A86	C10-C11-C13-C14
42	0	317	A86	C10-C11-C13-C14
42	2	301	A86	C10-C11-C13-C14
42	2	302	A86	C10-C11-C13-C14
37	M	102	LMG	C33-C34-C35-C36
35	a	410	PL9	C12-C11-C9-C10
31	6	210	CLA	C2-C1-O2A-CGA
31	1	210	CLA	C2-C1-O2A-CGA
31	C	506	CLA	C11-C12-C13-C14
31	c	506	CLA	C11-C12-C13-C14
31	5	305	CLA	C6-C7-C8-C9
31	5	308	CLA	C11-C12-C13-C14
31	0	305	CLA	C6-C7-C8-C9
31	0	308	CLA	C11-C12-C13-C14
31	B	503	CLA	C11-C12-C13-C15
31	Z	101	CLA	C4-C3-C5-C6
31	z	101	CLA	C4-C3-C5-C6
36	D	411	LHG	C2-C3-O3-P
36	d	411	LHG	C2-C3-O3-P
31	B	516	CLA	O1A-CGA-O2A-C1
31	b	517	CLA	O1A-CGA-O2A-C1
37	D	408	LMG	C4-C5-C6-O5
31	b	504	CLA	C11-C12-C13-C15
33	A	408	BCR	C1-C6-C7-C8
33	B	518	BCR	C23-C24-C25-C26
33	B	518	BCR	C23-C24-C25-C30
33	B	519	BCR	C1-C6-C7-C8
33	C	516	BCR	C23-C24-C25-C26
33	C	516	BCR	C23-C24-C25-C30
33	H	101	BCR	C23-C24-C25-C26
33	H	101	BCR	C23-C24-C25-C30
33	K	101	BCR	C1-C6-C7-C8
33	a	408	BCR	C1-C6-C7-C8
33	b	519	BCR	C23-C24-C25-C26
33	b	519	BCR	C23-C24-C25-C30
33	b	520	BCR	C1-C6-C7-C8
33	c	516	BCR	C23-C24-C25-C26
33	c	516	BCR	C23-C24-C25-C30
33	h	101	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
33	h	101	BCR	C23-C24-C25-C30
33	k	101	BCR	C1-C6-C7-C8
33	h	101	BCR	C7-C8-C9-C34
37	d	408	LMG	C4-C5-C6-O5
37	5	315	LMG	C42-C43-C44-C45
37	0	315	LMG	C42-C43-C44-C45
31	5	305	CLA	O1D-CGD-O2D-CED
31	5	311	CLA	O1D-CGD-O2D-CED
31	0	305	CLA	O1D-CGD-O2D-CED
31	0	311	CLA	O1D-CGD-O2D-CED
31	3	305	CLA	C1A-C2A-CAA-CBA
31	3	313	CLA	C1A-C2A-CAA-CBA
31	8	305	CLA	C1A-C2A-CAA-CBA
31	8	313	CLA	C1A-C2A-CAA-CBA
31	b	514	CLA	C10-C11-C12-C13
37	B	520	LMG	C4-C5-C6-O5
37	b	521	LMG	C4-C5-C6-O5
39	h	102	DGD	C4E-C5E-C6E-O5E
37	J	101	LMG	C11-C10-O7-C8
37	j	101	LMG	C11-C10-O7-C8
39	H	102	DGD	C4E-C5E-C6E-O5E
31	B	513	CLA	C10-C11-C12-C13
37	J	101	LMG	C13-C14-C15-C16
37	j	101	LMG	C13-C14-C15-C16
31	c	508	CLA	C16-C17-C18-C20
39	c	518	DGD	CDB-CEB-CFB-CGB
31	B	514	CLA	O1D-CGD-O2D-CED
31	b	515	CLA	O1D-CGD-O2D-CED
39	C	518	DGD	CDB-CEB-CFB-CGB
31	1	206	CLA	O1D-CGD-O2D-CED
37	m	101	LMG	C16-C17-C18-C19
35	A	410	PL9	C12-C11-C9-C10
37	M	101	LMG	C16-C17-C18-C19
31	B	503	CLA	C6-C7-C8-C10
31	B	504	CLA	C11-C12-C13-C15
31	B	516	CLA	C11-C10-C8-C7
31	C	506	CLA	C11-C12-C13-C15
31	C	510	CLA	C11-C10-C8-C7
31	C	511	CLA	C6-C7-C8-C10
31	C	513	CLA	C11-C10-C8-C7
31	C	513	CLA	C12-C13-C15-C16
31	b	504	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
31	b	505	CLA	C11-C12-C13-C15
31	b	517	CLA	C11-C10-C8-C7
31	c	506	CLA	C11-C12-C13-C15
31	c	510	CLA	C11-C10-C8-C7
31	c	511	CLA	C6-C7-C8-C10
31	c	513	CLA	C11-C10-C8-C7
31	c	513	CLA	C12-C13-C15-C16
32	A	406	PHO	C6-C7-C8-C10
32	a	406	PHO	C6-C7-C8-C10
31	6	206	CLA	O1D-CGD-O2D-CED
34	B	522	SQD	C16-C17-C18-C19
35	A	410	PL9	C24-C26-C27-C28
35	a	410	PL9	C24-C26-C27-C28
31	B	516	CLA	C13-C15-C16-C17
31	C	506	CLA	C15-C16-C17-C18
31	b	517	CLA	C13-C15-C16-C17
31	c	506	CLA	C15-C16-C17-C18
42	5	303	A86	C11-C10-C9-C8
42	0	303	A86	C11-C10-C9-C8
39	C	519	DGD	CCA-CDA-CEA-CFA
34	A	411	SQD	C16-C17-C18-C19
39	c	519	DGD	CCA-CDA-CEA-CFA
37	C	521	LMG	C39-C40-C41-C42
37	c	521	LMG	C39-C40-C41-C42
31	B	505	CLA	C13-C15-C16-C17
31	C	508	CLA	C16-C17-C18-C20
31	b	506	CLA	C13-C15-C16-C17
31	C	512	CLA	CBA-CGA-O2A-C1
31	c	512	CLA	CBA-CGA-O2A-C1
37	W	201	LMG	C37-C38-C39-C40
37	w	201	LMG	C37-C38-C39-C40
36	D	407	LHG	C29-C30-C31-C32
36	d	407	LHG	C29-C30-C31-C32
34	5	316	SQD	C25-C26-C27-C28
34	0	316	SQD	C25-C26-C27-C28
31	A	404	CLA	CAD-CBD-CGD-O2D
31	B	506	CLA	CAD-CBD-CGD-O2D
31	B	511	CLA	CAD-CBD-CGD-O2D
31	B	513	CLA	CAD-CBD-CGD-O2D
31	a	404	CLA	CAD-CBD-CGD-O2D
31	b	507	CLA	CAD-CBD-CGD-O2D
31	b	512	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
31	b	514	CLA	CAD-CBD-CGD-O2D
31	7	311	CLA	CAD-CBD-CGD-O2D
31	2	311	CLA	CAD-CBD-CGD-O2D
32	A	405	PHO	CAD-CBD-CGD-O2D
32	a	405	PHO	CAD-CBD-CGD-O2D
42	5	301	A86	C28-C27-C29-C30
42	0	301	A86	C28-C27-C29-C30
31	B	510	CLA	O1D-CGD-O2D-CED
36	A	412	LHG	C11-C12-C13-C14
36	a	411	LHG	C11-C12-C13-C14
31	C	513	CLA	C5-C6-C7-C8
31	c	513	CLA	C5-C6-C7-C8
37	C	521	LMG	C40-C41-C42-C43
37	c	521	LMG	C40-C41-C42-C43
31	b	511	CLA	O1D-CGD-O2D-CED
31	7	309	CLA	C4-C3-C5-C6
31	7	310	CLA	C4-C3-C5-C6
31	2	309	CLA	C4-C3-C5-C6
31	2	310	CLA	C4-C3-C5-C6
31	0	311	CLA	C2C-C3C-CAC-CBC
37	J	101	LMG	O6-C1-O1-C7
37	j	101	LMG	O6-C1-O1-C7
32	A	406	PHO	C2C-C3C-CAC-CBC
32	a	406	PHO	C2C-C3C-CAC-CBC
36	A	413	LHG	C4-C5-C6-O8
36	B	521	LHG	C4-C5-C6-O8
36	D	411	LHG	C4-C5-C6-O8
36	D	412	LHG	C4-C5-C6-O8
36	a	412	LHG	C4-C5-C6-O8
36	b	522	LHG	C4-C5-C6-O8
36	d	411	LHG	C4-C5-C6-O8
36	d	412	LHG	C4-C5-C6-O8
42	7	302	A86	C12-C11-C13-O
42	6	202	A86	C12-C11-C13-O
42	4	202	A86	C12-C11-C13-O
42	3	302	A86	C12-C11-C13-O
42	9	202	A86	C12-C11-C13-O
42	8	302	A86	C12-C11-C13-O
42	2	302	A86	C12-C11-C13-O
42	1	202	A86	C12-C11-C13-O
36	D	407	LHG	O6-C4-C5-O7
36	d	407	LHG	O6-C4-C5-O7

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Mol	Chain	Res	Type	Atoms
31	5	311	CLA	C2C-C3C-CAC-CBC
31	B	504	CLA	CHA-CBD-CGD-O1D
31	B	509	CLA	CHA-CBD-CGD-O1D
31	C	503	CLA	CHA-CBD-CGD-O1D
31	C	503	CLA	CHA-CBD-CGD-O2D
31	C	506	CLA	CHA-CBD-CGD-O1D
31	C	506	CLA	CHA-CBD-CGD-O2D
31	C	507	CLA	CHA-CBD-CGD-O1D
31	C	507	CLA	CHA-CBD-CGD-O2D
31	C	508	CLA	CHA-CBD-CGD-O1D
31	C	509	CLA	CHA-CBD-CGD-O1D
31	C	509	CLA	CHA-CBD-CGD-O2D
31	b	505	CLA	CHA-CBD-CGD-O1D
31	b	510	CLA	CHA-CBD-CGD-O1D
31	c	503	CLA	CHA-CBD-CGD-O1D
31	c	503	CLA	CHA-CBD-CGD-O2D
31	c	506	CLA	CHA-CBD-CGD-O1D
31	c	506	CLA	CHA-CBD-CGD-O2D
31	c	507	CLA	CHA-CBD-CGD-O1D
31	c	507	CLA	CHA-CBD-CGD-O2D
31	c	508	CLA	CHA-CBD-CGD-O1D
31	c	509	CLA	CHA-CBD-CGD-O1D
31	c	509	CLA	CHA-CBD-CGD-O2D
31	5	305	CLA	CHA-CBD-CGD-O1D
31	5	311	CLA	CHA-CBD-CGD-O1D
31	7	305	CLA	CHA-CBD-CGD-O1D
31	7	305	CLA	CHA-CBD-CGD-O2D
31	0	305	CLA	CHA-CBD-CGD-O1D
31	0	311	CLA	CHA-CBD-CGD-O1D
31	2	305	CLA	CHA-CBD-CGD-O1D
39	C	518	DGD	CBB-CCB-CDB-CEB
31	b	509	CLA	O1D-CGD-O2D-CED
39	c	518	DGD	CBB-CCB-CDB-CEB
31	B	508	CLA	O1D-CGD-O2D-CED
34	5	316	SQD	O47-C45-C46-O48
34	0	316	SQD	O47-C45-C46-O48
36	B	521	LHG	O7-C5-C6-O8
36	H	103	LHG	O7-C5-C6-O8
36	b	522	LHG	O7-C5-C6-O8
36	h	103	LHG	O7-C5-C6-O8
37	D	410	LMG	O1-C7-C8-O7
37	J	101	LMG	O1-C7-C8-O7

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Mol	Chain	Res	Type	Atoms
37	d	410	LMG	O1-C7-C8-O7
37	j	101	LMG	O1-C7-C8-O7
39	C	518	DGD	O1G-C1G-C2G-O2G
39	C	518	DGD	O2G-C2G-C3G-O3G
39	c	518	DGD	O1G-C1G-C2G-O2G
39	c	518	DGD	O2G-C2G-C3G-O3G
37	W	201	LMG	C34-C35-C36-C37
37	w	201	LMG	C34-C35-C36-C37
36	A	412	LHG	O1-C1-C2-O2
36	a	411	LHG	O1-C1-C2-O2
42	7	302	A86	C10-C11-C13-O
42	6	202	A86	C10-C11-C13-O
42	p	610	A86	C10-C11-C13-O
42	4	201	A86	C10-C11-C13-O
42	4	202	A86	C10-C11-C13-O
42	3	302	A86	C10-C11-C13-O
42	P	610	A86	C10-C11-C13-O
42	9	201	A86	C10-C11-C13-O
42	9	202	A86	C10-C11-C13-O
42	8	302	A86	C10-C11-C13-O
42	2	302	A86	C10-C11-C13-O
42	1	202	A86	C10-C11-C13-O
37	M	101	LMG	C12-C13-C14-C15
37	m	101	LMG	C12-C13-C14-C15
31	d	404	CLA	C4-C3-C5-C6
34	5	316	SQD	O49-C7-O47-C45
34	0	316	SQD	O49-C7-O47-C45
37	Y	101	LMG	O9-C10-O7-C8
37	y	101	LMG	O9-C10-O7-C8
31	C	511	CLA	C11-C10-C8-C9
31	c	511	CLA	C11-C10-C8-C9
36	D	411	LHG	O10-C23-O8-C6
31	C	512	CLA	O1A-CGA-O2A-C1
31	c	512	CLA	O1A-CGA-O2A-C1
36	d	411	LHG	O10-C23-O8-C6
33	H	101	BCR	C7-C8-C9-C34
43	5	302	ET4	C11-C12-C13-C28
43	0	302	ET4	C11-C12-C13-C28
44	p	611	DD6	C2-C1-C24-C25
44	P	611	DD6	C2-C1-C24-C25
31	B	514	CLA	C1A-C2A-CAA-CBA
31	b	515	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
31	7	310	CLA	C1A-C2A-CAA-CBA
31	3	307	CLA	C1A-C2A-CAA-CBA
31	8	307	CLA	C1A-C2A-CAA-CBA
31	2	310	CLA	C1A-C2A-CAA-CBA
31	5	307	CLA	CBA-CGA-O2A-C1
31	0	307	CLA	CBA-CGA-O2A-C1
39	C	518	DGD	C4A-C5A-C6A-C7A
39	c	518	DGD	C4A-C5A-C6A-C7A
39	c	519	DGD	C9B-CAB-CBB-CCB
39	C	519	DGD	C9B-CAB-CBB-CCB
37	m	101	LMG	C10-C11-C12-C13
39	H	102	DGD	C7B-C8B-C9B-CAB
39	h	102	DGD	C7B-C8B-C9B-CAB
31	D	404	CLA	C4-C3-C5-C6
31	B	505	CLA	C2-C3-C5-C6
31	b	506	CLA	C2-C3-C5-C6
37	M	102	LMG	C31-C32-C33-C34
36	D	411	LHG	C3-O3-P-O5
36	H	103	LHG	C3-O3-P-O5
36	d	411	LHG	C3-O3-P-O5
37	M	101	LMG	C10-C11-C12-C13
37	m	102	LMG	C31-C32-C33-C34
34	A	411	SQD	C24-C23-O48-C46
34	B	522	SQD	C24-C23-O48-C46
42	4	203	A86	C35-C34-O4-C38
36	D	412	LHG	C29-C30-C31-C32
36	d	412	LHG	C29-C30-C31-C32
31	C	509	CLA	C16-C17-C18-C20
31	c	509	CLA	C16-C17-C18-C20
42	9	203	A86	C35-C34-O4-C38
31	B	509	CLA	CAD-CBD-CGD-O1D
31	C	503	CLA	CAD-CBD-CGD-O1D
31	C	506	CLA	CAD-CBD-CGD-O1D
31	C	507	CLA	CAD-CBD-CGD-O1D
31	C	514	CLA	CAD-CBD-CGD-O1D
31	b	510	CLA	CAD-CBD-CGD-O1D
31	c	503	CLA	CAD-CBD-CGD-O1D
31	c	506	CLA	CAD-CBD-CGD-O1D
31	c	507	CLA	CAD-CBD-CGD-O1D
31	c	514	CLA	CAD-CBD-CGD-O1D
31	6	208	CLA	CAD-CBD-CGD-O1D
31	1	208	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
42	5	301	A86	C26-C27-C29-C30
42	0	301	A86	C26-C27-C29-C30
37	W	201	LMG	C16-C17-C18-C19
37	w	201	LMG	C16-C17-C18-C19
37	C	521	LMG	C12-C13-C14-C15
37	c	521	LMG	C12-C13-C14-C15
31	B	514	CLA	C11-C10-C8-C7
31	C	506	CLA	C6-C7-C8-C10
31	C	509	CLA	C11-C12-C13-C15
31	C	511	CLA	C11-C10-C8-C7
31	C	512	CLA	C12-C13-C15-C16
31	C	513	CLA	C11-C12-C13-C15
31	D	404	CLA	C12-C13-C15-C16
31	b	515	CLA	C11-C10-C8-C7
31	c	506	CLA	C6-C7-C8-C10
31	c	509	CLA	C11-C12-C13-C15
31	c	511	CLA	C11-C10-C8-C7
31	c	512	CLA	C12-C13-C15-C16
31	c	513	CLA	C11-C12-C13-C15
31	d	404	CLA	C12-C13-C15-C16
31	5	305	CLA	C11-C10-C8-C7
31	5	308	CLA	C6-C7-C8-C10
31	0	305	CLA	C11-C10-C8-C7
31	0	308	CLA	C6-C7-C8-C10
34	B	523	SQD	C30-C31-C32-C33
34	b	501	SQD	C30-C31-C32-C33
34	A	411	SQD	C14-C15-C16-C17
34	B	522	SQD	C14-C15-C16-C17
37	W	201	LMG	C11-C12-C13-C14
31	5	305	CLA	C2A-CAA-CBA-CGA
31	0	305	CLA	C2A-CAA-CBA-CGA
37	w	201	LMG	C11-C12-C13-C14
31	6	213	CLA	CAD-CBD-CGD-O1D
31	p	604	CLA	CAD-CBD-CGD-O1D
31	P	604	CLA	CAD-CBD-CGD-O1D
31	1	213	CLA	CAD-CBD-CGD-O1D
36	H	103	LHG	C4-C5-C6-O8
36	h	103	LHG	C4-C5-C6-O8
37	C	521	LMG	O1-C7-C8-C9
37	Y	101	LMG	C33-C34-C35-C36
37	c	521	LMG	O1-C7-C8-C9
37	y	101	LMG	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
36	A	413	LHG	O7-C5-C6-O8
36	a	412	LHG	O7-C5-C6-O8
37	D	409	LMG	O1-C7-C8-O7
37	d	409	LMG	O1-C7-C8-O7
31	5	305	CLA	O2A-C1-C2-C3
31	0	305	CLA	O2A-C1-C2-C3
31	2	305	CLA	O1D-CGD-O2D-CED
37	J	101	LMG	C33-C34-C35-C36
37	j	101	LMG	C33-C34-C35-C36
31	7	305	CLA	O1D-CGD-O2D-CED
42	6	202	A86	C33-C34-O4-C38
36	D	411	LHG	C24-C23-O8-C6
36	d	411	LHG	C24-C23-O8-C6
42	5	317	A86	C13-C14-C15-C20
42	7	301	A86	C13-C14-C15-C20
42	7	302	A86	C13-C14-C15-C20
42	p	610	A86	C13-C14-C15-C20
42	4	203	A86	C13-C14-C15-C20
42	P	610	A86	C13-C14-C15-C20
42	9	203	A86	C13-C14-C15-C20
42	0	317	A86	C13-C14-C15-C20
42	2	301	A86	C13-C14-C15-C20
42	2	302	A86	C13-C14-C15-C20
31	C	512	CLA	C13-C15-C16-C17
31	c	512	CLA	C13-C15-C16-C17
31	B	504	CLA	C11-C12-C13-C14
31	B	510	CLA	C11-C12-C13-C14
31	B	516	CLA	C11-C10-C8-C9
31	C	510	CLA	C11-C10-C8-C9
31	C	513	CLA	C6-C7-C8-C9
31	C	513	CLA	C14-C13-C15-C16
31	b	505	CLA	C11-C12-C13-C14
31	b	511	CLA	C11-C12-C13-C14
31	b	517	CLA	C11-C10-C8-C9
31	c	510	CLA	C11-C10-C8-C9
31	c	513	CLA	C6-C7-C8-C9
31	c	513	CLA	C14-C13-C15-C16
31	5	307	CLA	C11-C12-C13-C14
31	0	307	CLA	C11-C12-C13-C14
31	5	307	CLA	O1A-CGA-O2A-C1
31	0	307	CLA	O1A-CGA-O2A-C1
42	1	202	A86	C33-C34-O4-C38

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Mol	Chain	Res	Type	Atoms
36	D	411	LHG	O1-C1-C2-O2
36	d	411	LHG	O1-C1-C2-O2
39	c	519	DGD	C7B-C8B-C9B-CAB
31	c	505	CLA	C10-C11-C12-C13
39	C	519	DGD	C7B-C8B-C9B-CAB
31	6	211	CLA	C6-C7-C8-C9
31	1	211	CLA	C6-C7-C8-C9
31	C	505	CLA	C10-C11-C12-C13
36	D	407	LHG	C25-C26-C27-C28
36	d	407	LHG	C25-C26-C27-C28
36	B	521	LHG	O2-C2-C3-O3
36	b	522	LHG	O2-C2-C3-O3
42	7	302	A86	C35-C34-O4-C38
42	2	302	A86	C35-C34-O4-C38
33	k	101	BCR	C20-C21-C22-C37
34	b	501	SQD	C10-C11-C12-C13
37	D	410	LMG	C33-C34-C35-C36
37	d	410	LMG	C33-C34-C35-C36
31	6	210	CLA	C2-C3-C5-C6
31	1	210	CLA	C2-C3-C5-C6
31	B	504	CLA	C16-C17-C18-C19
31	b	505	CLA	C16-C17-C18-C19
34	B	523	SQD	C10-C11-C12-C13
34	A	409	SQD	C9-C10-C11-C12
34	a	409	SQD	C9-C10-C11-C12
36	D	411	LHG	C12-C13-C14-C15
36	d	411	LHG	C12-C13-C14-C15
31	6	210	CLA	C15-C16-C17-C18
31	1	210	CLA	C15-C16-C17-C18
31	A	404	CLA	C1-C2-C3-C4
31	C	514	CLA	C1-C2-C3-C4
31	a	404	CLA	C1-C2-C3-C4
31	c	514	CLA	C1-C2-C3-C4
39	C	519	DGD	C5B-C6B-C7B-C8B
39	c	519	DGD	C5B-C6B-C7B-C8B
37	D	410	LMG	C9-C8-O7-C10
37	d	410	LMG	C9-C8-O7-C10
31	B	508	CLA	C2-C1-O2A-CGA
31	b	509	CLA	C2-C1-O2A-CGA
42	7	302	A86	C12-C11-C13-C14
42	4	201	A86	C12-C11-C13-C14
42	3	301	A86	C12-C11-C13-C14

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Mol	Chain	Res	Type	Atoms
42	9	201	A86	C12-C11-C13-C14
42	8	301	A86	C12-C11-C13-C14
42	2	302	A86	C12-C11-C13-C14
31	C	513	CLA	O2A-C1-C2-C3
31	c	513	CLA	O2A-C1-C2-C3
35	D	406	PL9	C40-C39-C41-C42
35	d	406	PL9	C40-C39-C41-C42
33	A	408	BCR	C5-C6-C7-C8
33	B	517	BCR	C23-C24-C25-C26
33	B	517	BCR	C23-C24-C25-C30
33	B	518	BCR	C1-C6-C7-C8
33	B	518	BCR	C5-C6-C7-C8
33	B	519	BCR	C5-C6-C7-C8
33	C	515	BCR	C5-C6-C7-C8
33	C	516	BCR	C5-C6-C7-C8
33	D	405	BCR	C23-C24-C25-C26
33	D	405	BCR	C23-C24-C25-C30
33	K	101	BCR	C5-C6-C7-C8
33	K	101	BCR	C23-C24-C25-C26
33	K	101	BCR	C23-C24-C25-C30
33	a	408	BCR	C5-C6-C7-C8
33	b	518	BCR	C23-C24-C25-C26
33	b	518	BCR	C23-C24-C25-C30
33	b	519	BCR	C1-C6-C7-C8
33	b	519	BCR	C5-C6-C7-C8
33	b	520	BCR	C5-C6-C7-C8
33	c	515	BCR	C5-C6-C7-C8
33	c	516	BCR	C5-C6-C7-C8
33	d	405	BCR	C23-C24-C25-C26
33	d	405	BCR	C23-C24-C25-C30
33	k	101	BCR	C5-C6-C7-C8
33	k	101	BCR	C23-C24-C25-C26
33	k	101	BCR	C23-C24-C25-C30
37	B	520	LMG	O6-C1-O1-C7
37	b	521	LMG	O6-C1-O1-C7
31	D	401	CLA	C11-C12-C13-C14
31	d	401	CLA	C11-C12-C13-C14
36	D	412	LHG	C7-C8-C9-C10
36	D	407	LHG	C24-C25-C26-C27
36	d	407	LHG	C24-C25-C26-C27
36	d	412	LHG	C7-C8-C9-C10
34	A	411	SQD	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
36	B	521	LHG	C29-C30-C31-C32
36	b	522	LHG	C29-C30-C31-C32
31	C	503	CLA	C12-C13-C15-C16
31	c	503	CLA	C12-C13-C15-C16
31	5	308	CLA	C11-C12-C13-C15
31	7	310	CLA	C2-C3-C5-C6
31	0	308	CLA	C11-C12-C13-C15
31	2	310	CLA	C2-C3-C5-C6
34	B	522	SQD	C12-C13-C14-C15
31	C	502	CLA	C11-C12-C13-C14
31	C	506	CLA	C6-C7-C8-C9
31	C	509	CLA	C11-C12-C13-C14
31	C	512	CLA	C14-C13-C15-C16
31	C	513	CLA	C11-C12-C13-C14
31	D	404	CLA	C14-C13-C15-C16
31	c	502	CLA	C11-C12-C13-C14
31	c	506	CLA	C6-C7-C8-C9
31	c	509	CLA	C11-C12-C13-C14
31	c	512	CLA	C14-C13-C15-C16
31	c	513	CLA	C11-C12-C13-C14
31	d	404	CLA	C14-C13-C15-C16
31	5	308	CLA	C6-C7-C8-C9
31	0	308	CLA	C6-C7-C8-C9
31	C	509	CLA	C16-C17-C18-C19
31	c	509	CLA	C16-C17-C18-C19
31	5	306	CLA	CAA-CBA-CGA-O1A
31	0	306	CLA	CAA-CBA-CGA-O1A
37	D	408	LMG	C19-C20-C21-C22
37	d	408	LMG	C19-C20-C21-C22
39	H	102	DGD	C5B-C6B-C7B-C8B
39	h	102	DGD	C5B-C6B-C7B-C8B
31	B	511	CLA	C12-C13-C15-C16
37	Y	101	LMG	C28-C29-C30-C31
37	y	101	LMG	C28-C29-C30-C31
31	b	512	CLA	C12-C13-C15-C16
37	C	521	LMG	C29-C28-O8-C9
37	Y	101	LMG	C29-C28-O8-C9
37	c	521	LMG	C29-C28-O8-C9
37	y	101	LMG	C29-C28-O8-C9
31	7	316	CLA	CBD-CGD-O2D-CED
31	2	316	CLA	CBD-CGD-O2D-CED
31	7	305	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
31	2	305	CLA	CBD-CGD-O2D-CED
31	C	506	CLA	C2A-CAA-CBA-CGA
31	c	506	CLA	C2A-CAA-CBA-CGA
39	C	520	DGD	O6E-C1E-O5D-C6D
39	c	520	DGD	O6E-C1E-O5D-C6D
31	c	510	CLA	C3-C5-C6-C7
37	C	521	LMG	O10-C28-O8-C9
37	c	521	LMG	O10-C28-O8-C9
31	B	502	CLA	C10-C11-C12-C13
31	b	503	CLA	C10-C11-C12-C13
31	C	510	CLA	C3-C5-C6-C7
31	C	506	CLA	C4-C3-C5-C6
31	c	506	CLA	C4-C3-C5-C6
31	6	206	CLA	CAA-CBA-CGA-O2A
31	1	206	CLA	CAA-CBA-CGA-O2A
31	7	316	CLA	O1D-CGD-O2D-CED
31	2	316	CLA	O1D-CGD-O2D-CED
31	C	506	CLA	C2-C3-C5-C6
31	c	506	CLA	C2-C3-C5-C6
37	c	521	LMG	C31-C32-C33-C34
31	7	306	CLA	CAA-CBA-CGA-O1A
31	2	306	CLA	CAA-CBA-CGA-O1A
31	C	511	CLA	C2-C1-O2A-CGA
31	c	511	CLA	C2-C1-O2A-CGA
37	C	521	LMG	C31-C32-C33-C34
34	A	409	SQD	C11-C12-C13-C14
34	a	409	SQD	C11-C12-C13-C14
36	D	411	LHG	O10-C23-C24-C25
39	C	520	DGD	O1G-C1G-C2G-O2G
39	c	520	DGD	O1G-C1G-C2G-O2G
37	c	521	LMG	C18-C19-C20-C21
37	C	521	LMG	C18-C19-C20-C21
31	B	502	CLA	O2A-C1-C2-C3
31	b	503	CLA	O2A-C1-C2-C3
37	5	315	LMG	C17-C18-C19-C20
36	a	411	LHG	C34-C35-C36-C37
37	0	315	LMG	C17-C18-C19-C20
36	A	412	LHG	C34-C35-C36-C37
31	B	505	CLA	C11-C10-C8-C9
31	C	502	CLA	C14-C13-C15-C16
31	b	506	CLA	C11-C10-C8-C9
31	c	502	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
31	C	506	CLA	C10-C11-C12-C13
31	c	506	CLA	C10-C11-C12-C13
34	5	316	SQD	C33-C34-C35-C36
34	0	316	SQD	C33-C34-C35-C36
33	K	101	BCR	C20-C21-C22-C37
31	C	508	CLA	C2A-CAA-CBA-CGA
31	c	508	CLA	C2A-CAA-CBA-CGA
42	3	301	A86	C35-C34-O4-C38
31	b	512	CLA	C15-C16-C17-C18
34	B	523	SQD	C11-C10-C9-C8
34	b	501	SQD	C11-C10-C9-C8
36	H	103	LHG	C12-C13-C14-C15
36	h	103	LHG	C12-C13-C14-C15
31	7	306	CLA	CAA-CBA-CGA-O2A
31	2	306	CLA	CAA-CBA-CGA-O2A
43	5	302	ET4	C11-C12-C13-C14
43	0	302	ET4	C11-C12-C13-C14
31	0	312	CLA	C2C-C3C-CAC-CBC
37	D	410	LMG	C7-C8-O7-C10
37	d	410	LMG	C7-C8-O7-C10
42	8	301	A86	C35-C34-O4-C38
31	B	511	CLA	C15-C16-C17-C18
31	C	508	CLA	C4-C3-C5-C6
31	c	508	CLA	C4-C3-C5-C6
35	D	406	PL9	C15-C14-C16-C17
35	d	406	PL9	C15-C14-C16-C17
31	B	503	CLA	C1A-C2A-CAA-CBA
31	C	509	CLA	C1A-C2A-CAA-CBA
31	c	509	CLA	C1A-C2A-CAA-CBA
31	5	310	CLA	C1A-C2A-CAA-CBA
31	6	206	CLA	C1A-C2A-CAA-CBA
31	6	211	CLA	C1A-C2A-CAA-CBA
31	0	310	CLA	C1A-C2A-CAA-CBA
31	1	206	CLA	C1A-C2A-CAA-CBA
31	1	211	CLA	C1A-C2A-CAA-CBA
31	B	514	CLA	C6-C7-C8-C10
31	b	515	CLA	C6-C7-C8-C10
31	5	312	CLA	C2C-C3C-CAC-CBC
31	C	506	CLA	C13-C15-C16-C17
31	c	506	CLA	C13-C15-C16-C17
31	5	306	CLA	CAA-CBA-CGA-O2A
31	0	306	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
36	D	411	LHG	O8-C23-C24-C25
36	d	411	LHG	O8-C23-C24-C25
39	C	518	DGD	CCB-CDB-CEB-CFB
39	c	518	DGD	CCB-CDB-CEB-CFB
32	A	405	PHO	C5-C6-C7-C8
32	a	405	PHO	C5-C6-C7-C8
36	D	407	LHG	C12-C13-C14-C15
36	d	407	LHG	C12-C13-C14-C15
37	D	408	LMG	C34-C35-C36-C37
31	5	311	CLA	CAA-CBA-CGA-O2A
31	0	311	CLA	CAA-CBA-CGA-O2A
37	d	408	LMG	C34-C35-C36-C37
39	h	102	DGD	C8A-C9A-CAA-CBA
31	C	508	CLA	C16-C17-C18-C19
31	c	508	CLA	C16-C17-C18-C19
31	1	201	CLA	CAA-CBA-CGA-O2A
39	H	102	DGD	C8A-C9A-CAA-CBA
31	B	508	CLA	C13-C15-C16-C17
31	b	509	CLA	C13-C15-C16-C17
31	6	201	CLA	CAA-CBA-CGA-O2A
32	A	405	PHO	C15-C16-C17-C18
36	A	412	LHG	C25-C26-C27-C28
36	a	411	LHG	C25-C26-C27-C28
42	6	202	A86	C10-C11-C13-C14
42	4	201	A86	C10-C11-C13-C14
42	9	201	A86	C10-C11-C13-C14
42	1	202	A86	C10-C11-C13-C14
31	6	206	CLA	CAA-CBA-CGA-O1A
31	1	206	CLA	CAA-CBA-CGA-O1A
31	1	207	CLA	CAA-CBA-CGA-O2A
36	A	412	LHG	C12-C13-C14-C15
31	B	513	CLA	C2-C1-O2A-CGA
31	b	514	CLA	C2-C1-O2A-CGA
36	a	411	LHG	C12-C13-C14-C15
33	H	101	BCR	C10-C11-C12-C13
33	h	101	BCR	C10-C11-C12-C13
31	5	311	CLA	CAA-CBA-CGA-O1A
31	6	207	CLA	CAA-CBA-CGA-O2A
31	0	311	CLA	CAA-CBA-CGA-O1A
35	A	410	PL9	C23-C24-C26-C27
35	a	410	PL9	C23-C24-C26-C27
37	Y	101	LMG	O7-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
32	a	405	PHO	C15-C16-C17-C18
37	D	410	LMG	C34-C35-C36-C37
37	d	410	LMG	C34-C35-C36-C37
32	a	406	PHO	C8-C10-C11-C12
31	C	503	CLA	C5-C6-C7-C8
34	B	523	SQD	C25-C26-C27-C28
34	b	501	SQD	C25-C26-C27-C28
31	c	503	CLA	C5-C6-C7-C8
32	A	406	PHO	C8-C10-C11-C12
31	B	508	CLA	C2A-CAA-CBA-CGA
31	b	509	CLA	C2A-CAA-CBA-CGA
33	A	408	BCR	C23-C24-C25-C30
33	B	519	BCR	C23-C24-C25-C30
33	C	515	BCR	C1-C6-C7-C8
33	C	515	BCR	C23-C24-C25-C30
33	C	516	BCR	C1-C6-C7-C8
33	C	517	BCR	C23-C24-C25-C30
33	D	405	BCR	C1-C6-C7-C8
33	H	101	BCR	C1-C6-C7-C8
33	H	101	BCR	C5-C6-C7-C8
33	a	408	BCR	C23-C24-C25-C30
33	b	520	BCR	C23-C24-C25-C30
33	c	515	BCR	C1-C6-C7-C8
33	c	515	BCR	C23-C24-C25-C30
33	c	516	BCR	C1-C6-C7-C8
33	c	517	BCR	C23-C24-C25-C30
33	d	405	BCR	C1-C6-C7-C8
33	h	101	BCR	C1-C6-C7-C8
33	h	101	BCR	C5-C6-C7-C8
37	y	101	LMG	O7-C10-C11-C12
39	C	520	DGD	O1G-C1G-C2G-C3G
39	c	520	DGD	O1G-C1G-C2G-C3G
31	5	312	CLA	C4C-C3C-CAC-CBC
36	d	411	LHG	O10-C23-C24-C25
31	B	505	CLA	C8-C10-C11-C12
31	b	506	CLA	C8-C10-C11-C12
34	0	316	SQD	C32-C33-C34-C35
36	D	411	LHG	C11-C10-C9-C8
31	0	312	CLA	C4C-C3C-CAC-CBC
37	W	201	LMG	C8-C7-O1-C1
37	w	201	LMG	C8-C7-O1-C1
36	d	411	LHG	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
34	5	316	SQD	C32-C33-C34-C35
31	6	207	CLA	CAA-CBA-CGA-O1A
31	1	207	CLA	CAA-CBA-CGA-O1A
31	B	503	CLA	C13-C15-C16-C17
37	C	521	LMG	C10-C11-C12-C13
31	b	504	CLA	C13-C15-C16-C17
37	c	521	LMG	C10-C11-C12-C13
36	B	521	LHG	C33-C34-C35-C36
36	b	522	LHG	C33-C34-C35-C36
31	p	608	CLA	C2C-C3C-CAC-CBC
31	5	305	CLA	C6-C7-C8-C10
31	5	310	CLA	C2-C3-C5-C6
31	0	305	CLA	C6-C7-C8-C10
31	0	310	CLA	C2-C3-C5-C6
31	B	506	CLA	C8-C10-C11-C12
31	b	507	CLA	C8-C10-C11-C12
39	C	520	DGD	C4B-C5B-C6B-C7B
39	c	520	DGD	C4B-C5B-C6B-C7B
31	6	201	CLA	CAA-CBA-CGA-O1A
31	1	201	CLA	CAA-CBA-CGA-O1A
31	B	513	CLA	CAA-CBA-CGA-O2A
31	C	504	CLA	CBA-CGA-O2A-C1
31	c	504	CLA	CBA-CGA-O2A-C1
33	B	518	BCR	C20-C21-C22-C37
33	b	519	BCR	C20-C21-C22-C37
37	M	101	LMG	O7-C10-C11-C12
37	m	101	LMG	O7-C10-C11-C12
37	5	315	LMG	O7-C10-C11-C12
37	0	315	LMG	O7-C10-C11-C12
31	2	308	CLA	CAA-CBA-CGA-O1A
31	D	404	CLA	C2-C3-C5-C6
31	d	404	CLA	C2-C3-C5-C6
31	7	309	CLA	C2-C3-C5-C6
31	2	309	CLA	C2-C3-C5-C6
31	b	514	CLA	CAA-CBA-CGA-O2A
36	D	407	LHG	C33-C34-C35-C36
36	d	407	LHG	C33-C34-C35-C36
31	A	407	CLA	C11-C10-C8-C9
31	B	509	CLA	C14-C13-C15-C16
31	B	514	CLA	C6-C7-C8-C9
31	a	407	CLA	C11-C10-C8-C9
31	b	510	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
31	b	515	CLA	C6-C7-C8-C9
31	5	305	CLA	C11-C10-C8-C9
31	0	305	CLA	C11-C10-C8-C9
32	A	406	PHO	C6-C7-C8-C9
32	a	406	PHO	C6-C7-C8-C9
31	7	308	CLA	CAA-CBA-CGA-O1A
41	V	201	HEM	CAA-CBA-CGA-O1A
41	v	201	HEM	CAA-CBA-CGA-O1A
31	B	508	CLA	C3A-C2A-CAA-CBA
31	B	509	CLA	C3A-C2A-CAA-CBA
31	b	509	CLA	C3A-C2A-CAA-CBA
31	b	510	CLA	C3A-C2A-CAA-CBA
31	6	208	CLA	C3A-C2A-CAA-CBA
31	1	208	CLA	C3A-C2A-CAA-CBA
31	C	504	CLA	O1A-CGA-O2A-C1
31	c	504	CLA	O1A-CGA-O2A-C1
31	B	505	CLA	CAD-CBD-CGD-O2D
31	B	510	CLA	CAD-CBD-CGD-O2D
31	C	504	CLA	CAD-CBD-CGD-O2D
31	C	505	CLA	CAD-CBD-CGD-O2D
31	C	511	CLA	CAD-CBD-CGD-O2D
31	D	404	CLA	CAD-CBD-CGD-O2D
31	b	506	CLA	CAD-CBD-CGD-O2D
31	b	511	CLA	CAD-CBD-CGD-O2D
31	c	504	CLA	CAD-CBD-CGD-O2D
31	c	505	CLA	CAD-CBD-CGD-O2D
31	c	511	CLA	CAD-CBD-CGD-O2D
31	d	404	CLA	CAD-CBD-CGD-O2D
31	5	306	CLA	CAD-CBD-CGD-O2D
31	6	207	CLA	CAD-CBD-CGD-O2D
31	0	306	CLA	CAD-CBD-CGD-O2D
31	1	207	CLA	CAD-CBD-CGD-O2D
31	P	608	CLA	C2C-C3C-CAC-CBC
31	0	306	CLA	C2A-CAA-CBA-CGA
31	1	208	CLA	C2A-CAA-CBA-CGA
37	B	520	LMG	O9-C10-O7-C8
37	b	521	LMG	O9-C10-O7-C8
39	C	518	DGD	O1B-C1B-O2G-C2G
39	c	518	DGD	O1B-C1B-O2G-C2G
31	B	502	CLA	CAA-CBA-CGA-O2A
31	b	503	CLA	CAA-CBA-CGA-O2A
36	D	411	LHG	O7-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
36	d	411	LHG	O7-C7-C8-C9
34	B	522	SQD	C24-C25-C26-C27
31	6	209	CLA	CAA-CBA-CGA-O1A
31	1	209	CLA	CAA-CBA-CGA-O1A
41	V	201	HEM	CAA-CBA-CGA-O2A
41	v	201	HEM	CAA-CBA-CGA-O2A
34	A	411	SQD	C24-C25-C26-C27
33	D	405	BCR	C21-C22-C23-C24
33	d	405	BCR	C21-C22-C23-C24
42	p	610	A86	C12-C11-C13-O
42	3	301	A86	C12-C11-C13-O
42	P	610	A86	C12-C11-C13-O
42	8	301	A86	C12-C11-C13-O
44	p	611	DD6	C13-C14-C15-O1
44	P	611	DD6	C13-C14-C15-O1
34	A	409	SQD	O47-C7-C8-C9
34	B	522	SQD	O47-C7-C8-C9
34	a	409	SQD	O47-C7-C8-C9
37	W	201	LMG	O7-C10-C11-C12
37	W	201	LMG	O8-C28-C29-C30
37	w	201	LMG	O7-C10-C11-C12
37	w	201	LMG	O8-C28-C29-C30
31	C	510	CLA	O2A-C1-C2-C3
31	D	403	CLA	O2A-C1-C2-C3
31	c	510	CLA	O2A-C1-C2-C3
31	d	403	CLA	O2A-C1-C2-C3
31	5	306	CLA	C2A-CAA-CBA-CGA
31	6	208	CLA	C2A-CAA-CBA-CGA
31	B	506	CLA	C10-C11-C12-C13
31	B	510	CLA	CAA-CBA-CGA-O2A
31	b	511	CLA	CAA-CBA-CGA-O2A
31	c	502	CLA	CAA-CBA-CGA-O2A
34	A	411	SQD	O47-C7-C8-C9
41	F	101	HEM	CAA-CBA-CGA-O2A
41	f	101	HEM	CAA-CBA-CGA-O2A
37	J	101	LMG	C31-C32-C33-C34
35	A	410	PL9	C17-C18-C19-C20
37	j	101	LMG	C31-C32-C33-C34
31	A	403	CLA	CHA-CBD-CGD-O1D
31	A	403	CLA	CHA-CBD-CGD-O2D
31	B	501	CLA	CHA-CBD-CGD-O1D
31	B	501	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
31	B	504	CLA	CHA-CBD-CGD-O2D
31	B	509	CLA	CHA-CBD-CGD-O2D
31	B	512	CLA	CHA-CBD-CGD-O1D
31	B	515	CLA	CHA-CBD-CGD-O1D
31	B	515	CLA	CHA-CBD-CGD-O2D
31	C	513	CLA	CHA-CBD-CGD-O1D
31	C	513	CLA	CHA-CBD-CGD-O2D
31	W	202	CLA	CHA-CBD-CGD-O2D
31	a	403	CLA	CHA-CBD-CGD-O1D
31	a	403	CLA	CHA-CBD-CGD-O2D
31	b	502	CLA	CHA-CBD-CGD-O1D
31	b	502	CLA	CHA-CBD-CGD-O2D
31	b	505	CLA	CHA-CBD-CGD-O2D
31	b	510	CLA	CHA-CBD-CGD-O2D
31	b	513	CLA	CHA-CBD-CGD-O1D
31	b	516	CLA	CHA-CBD-CGD-O1D
31	b	516	CLA	CHA-CBD-CGD-O2D
31	c	513	CLA	CHA-CBD-CGD-O1D
31	c	513	CLA	CHA-CBD-CGD-O2D
31	w	202	CLA	CHA-CBD-CGD-O2D
31	5	305	CLA	CHA-CBD-CGD-O2D
31	5	308	CLA	CHA-CBD-CGD-O1D
31	5	308	CLA	CHA-CBD-CGD-O2D
31	5	311	CLA	CHA-CBD-CGD-O2D
31	5	312	CLA	CHA-CBD-CGD-O1D
31	5	312	CLA	CHA-CBD-CGD-O2D
31	0	305	CLA	CHA-CBD-CGD-O2D
31	0	308	CLA	CHA-CBD-CGD-O1D
31	0	308	CLA	CHA-CBD-CGD-O2D
31	0	311	CLA	CHA-CBD-CGD-O2D
31	0	312	CLA	CHA-CBD-CGD-O1D
31	0	312	CLA	CHA-CBD-CGD-O2D
31	2	305	CLA	CHA-CBD-CGD-O2D
31	7	308	CLA	CAA-CBA-CGA-O2A
31	2	308	CLA	CAA-CBA-CGA-O2A
31	C	502	CLA	CAA-CBA-CGA-O2A
31	C	511	CLA	CAA-CBA-CGA-O2A
31	c	511	CLA	CAA-CBA-CGA-O2A
32	A	406	PHO	CAA-CBA-CGA-O2A
32	a	406	PHO	CAA-CBA-CGA-O2A
31	B	502	CLA	C5-C6-C7-C8
31	b	503	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
31	b	507	CLA	C10-C11-C12-C13
31	6	209	CLA	CAA-CBA-CGA-O2A
31	C	513	CLA	C2-C3-C5-C6
31	c	513	CLA	C2-C3-C5-C6
31	b	512	CLA	C11-C12-C13-C15
36	A	413	LHG	O1-C1-C2-O2
36	a	412	LHG	O1-C1-C2-O2
41	F	101	HEM	C4D-C3D-CAD-CBD
41	f	101	HEM	C4D-C3D-CAD-CBD
42	4	203	A86	C10-C11-C13-O
42	3	301	A86	C10-C11-C13-O
42	9	203	A86	C10-C11-C13-O
42	8	301	A86	C10-C11-C13-O
31	B	511	CLA	C11-C12-C13-C15
37	J	101	LMG	O8-C28-C29-C30
31	1	209	CLA	CAA-CBA-CGA-O2A
35	a	410	PL9	C17-C18-C19-C20
31	B	503	CLA	C11-C10-C8-C7
31	C	503	CLA	C11-C12-C13-C15
31	b	504	CLA	C11-C10-C8-C7
31	c	503	CLA	C11-C12-C13-C15
31	5	307	CLA	C6-C7-C8-C10
31	0	307	CLA	C6-C7-C8-C10
44	3	303	DD6	C27-C29-C30-C31
35	A	410	PL9	C21-C22-C23-C24
35	a	410	PL9	C21-C22-C23-C24
36	b	522	LHG	O7-C7-C8-C9
37	j	101	LMG	O8-C28-C29-C30
39	c	519	DGD	CAA-CBA-CCA-CDA
31	C	503	CLA	C11-C12-C13-C14
31	c	503	CLA	C11-C12-C13-C14
37	d	408	LMG	C28-C29-C30-C31
37	M	101	LMG	C39-C40-C41-C42
37	m	101	LMG	C39-C40-C41-C42
39	C	519	DGD	CAA-CBA-CCA-CDA
34	A	411	SQD	C23-C24-C25-C26
37	D	408	LMG	C28-C29-C30-C31
36	H	103	LHG	C27-C28-C29-C30
36	h	103	LHG	C27-C28-C29-C30
36	B	521	LHG	O7-C7-C8-C9
34	5	316	SQD	C5-C6-S-O8
34	0	316	SQD	C5-C6-S-O8

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Mol	Chain	Res	Type	Atoms
37	J	101	LMG	C34-C35-C36-C37
37	j	101	LMG	C34-C35-C36-C37
34	B	522	SQD	C23-C24-C25-C26
37	M	101	LMG	C18-C19-C20-C21
37	m	101	LMG	C18-C19-C20-C21
37	J	101	LMG	O10-C28-C29-C30
31	B	514	CLA	CBA-CGA-O2A-C1
31	b	515	CLA	CBA-CGA-O2A-C1
34	0	316	SQD	C34-C35-C36-C37
31	B	508	CLA	C1A-C2A-CAA-CBA
31	B	509	CLA	C1A-C2A-CAA-CBA
31	b	504	CLA	C1A-C2A-CAA-CBA
31	b	509	CLA	C1A-C2A-CAA-CBA
31	b	510	CLA	C1A-C2A-CAA-CBA
31	6	213	CLA	CHA-CBD-CGD-O2D
31	p	608	CLA	CHA-CBD-CGD-O2D
31	3	309	CLA	CHA-CBD-CGD-O2D
31	P	608	CLA	CHA-CBD-CGD-O2D
31	8	309	CLA	CHA-CBD-CGD-O2D
31	1	213	CLA	CHA-CBD-CGD-O2D
31	B	513	CLA	CAA-CBA-CGA-O1A
31	b	514	CLA	CAA-CBA-CGA-O1A
32	A	406	PHO	CAA-CBA-CGA-O1A
32	a	406	PHO	CAA-CBA-CGA-O1A
36	D	407	LHG	O10-C23-C24-C25
36	d	407	LHG	O10-C23-C24-C25
37	j	101	LMG	O10-C28-C29-C30
34	5	316	SQD	C34-C35-C36-C37
31	C	502	CLA	CAA-CBA-CGA-O1A
31	c	502	CLA	CAA-CBA-CGA-O1A
37	Y	101	LMG	O1-C7-C8-C9
37	y	101	LMG	O1-C7-C8-C9
31	7	307	CLA	C2A-CAA-CBA-CGA
31	6	206	CLA	C2A-CAA-CBA-CGA
31	2	307	CLA	C2A-CAA-CBA-CGA
31	1	206	CLA	C2A-CAA-CBA-CGA
37	W	201	LMG	O10-C28-C29-C30
31	W	202	CLA	CAA-CBA-CGA-O2A
31	w	202	CLA	CAA-CBA-CGA-O2A
31	B	514	CLA	O1A-CGA-O2A-C1
34	A	409	SQD	O49-C7-O47-C45
34	a	409	SQD	O49-C7-O47-C45

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Mol	Chain	Res	Type	Atoms
37	w	201	LMG	O10-C28-C29-C30
31	b	515	CLA	O1A-CGA-O2A-C1
39	C	520	DGD	C2E-C1E-O5D-C6D
39	c	520	DGD	C2E-C1E-O5D-C6D
31	0	305	CLA	C10-C11-C12-C13
39	c	520	DGD	C3B-C4B-C5B-C6B
31	B	510	CLA	C16-C17-C18-C20
31	b	511	CLA	C16-C17-C18-C20
39	C	520	DGD	C3B-C4B-C5B-C6B
31	c	511	CLA	CAA-CBA-CGA-O1A
41	F	101	HEM	CAA-CBA-CGA-O1A
41	f	101	HEM	CAA-CBA-CGA-O1A
33	A	408	BCR	C23-C24-C25-C26
33	B	519	BCR	C23-C24-C25-C26
33	D	405	BCR	C5-C6-C7-C8
33	a	408	BCR	C23-C24-C25-C26
33	b	520	BCR	C23-C24-C25-C26
33	d	405	BCR	C5-C6-C7-C8
31	B	502	CLA	CAA-CBA-CGA-O1A
31	B	510	CLA	CAA-CBA-CGA-O1A
31	C	511	CLA	CAA-CBA-CGA-O1A
31	b	503	CLA	CAA-CBA-CGA-O1A
36	A	412	LHG	C24-C25-C26-C27
37	j	101	LMG	C36-C37-C38-C39
31	5	305	CLA	C10-C11-C12-C13
31	C	505	CLA	C6-C7-C8-C10
36	a	411	LHG	C24-C25-C26-C27
37	J	101	LMG	C36-C37-C38-C39
37	Y	101	LMG	O9-C10-C11-C12
37	y	101	LMG	O9-C10-C11-C12
37	5	315	LMG	O9-C10-C11-C12
37	0	315	LMG	O9-C10-C11-C12
37	5	315	LMG	C12-C13-C14-C15
37	0	315	LMG	C12-C13-C14-C15
31	c	505	CLA	C6-C7-C8-C10
31	b	511	CLA	CAA-CBA-CGA-O1A
39	H	102	DGD	O1B-C1B-C2B-C3B
39	h	102	DGD	O1B-C1B-C2B-C3B
31	B	504	CLA	CAD-CBD-CGD-O1D
31	B	512	CLA	CAD-CBD-CGD-O1D
31	B	514	CLA	CAD-CBD-CGD-O1D
31	b	505	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
31	b	513	CLA	CAD-CBD-CGD-O1D
31	b	515	CLA	CAD-CBD-CGD-O1D
31	5	307	CLA	CAD-CBD-CGD-O1D
31	5	308	CLA	CAD-CBD-CGD-O1D
31	7	307	CLA	CAD-CBD-CGD-O1D
31	7	308	CLA	CAD-CBD-CGD-O1D
31	0	307	CLA	CAD-CBD-CGD-O1D
31	0	308	CLA	CAD-CBD-CGD-O1D
31	2	307	CLA	CAD-CBD-CGD-O1D
31	2	308	CLA	CAD-CBD-CGD-O1D
34	A	411	SQD	C5-C6-S-O9
34	B	522	SQD	C5-C6-S-O9
31	C	511	CLA	C5-C6-C7-C8
31	c	511	CLA	C5-C6-C7-C8
31	B	503	CLA	C11-C10-C8-C9
31	B	505	CLA	C11-C12-C13-C14
31	C	508	CLA	C6-C7-C8-C9
31	C	509	CLA	C11-C10-C8-C9
31	b	504	CLA	C11-C10-C8-C9
31	b	506	CLA	C11-C12-C13-C14
31	c	508	CLA	C6-C7-C8-C9
31	c	509	CLA	C11-C10-C8-C9
37	m	101	LMG	C11-C12-C13-C14
37	M	101	LMG	C11-C12-C13-C14
31	6	207	CLA	C2C-C3C-CAC-CBC
31	1	207	CLA	C2C-C3C-CAC-CBC
34	5	316	SQD	C26-C27-C28-C29
34	0	316	SQD	C26-C27-C28-C29
37	0	315	LMG	C11-C12-C13-C14
37	5	315	LMG	C11-C12-C13-C14
31	C	513	CLA	C16-C17-C18-C20
31	C	508	CLA	C2-C3-C5-C6
31	c	508	CLA	C2-C3-C5-C6
31	6	213	CLA	CHA-CBD-CGD-O1D
31	6	213	CLA	CAD-CBD-CGD-O2D
31	p	608	CLA	CHA-CBD-CGD-O1D
31	P	608	CLA	CHA-CBD-CGD-O1D
31	1	213	CLA	CHA-CBD-CGD-O1D
31	1	213	CLA	CAD-CBD-CGD-O2D
37	C	521	LMG	C28-C29-C30-C31
37	c	521	LMG	C28-C29-C30-C31
34	B	523	SQD	O47-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
34	b	501	SQD	O47-C7-C8-C9
36	A	413	LHG	O9-C7-C8-C9
36	a	412	LHG	O9-C7-C8-C9
31	D	403	CLA	CAA-CBA-CGA-O2A
31	d	403	CLA	CAA-CBA-CGA-O2A
31	5	305	CLA	CAA-CBA-CGA-O2A
31	0	305	CLA	CAA-CBA-CGA-O2A
37	D	408	LMG	O7-C10-C11-C12
37	d	408	LMG	O7-C10-C11-C12
31	C	509	CLA	C13-C15-C16-C17
31	C	511	CLA	C15-C16-C17-C18
31	c	509	CLA	C13-C15-C16-C17
31	c	511	CLA	C15-C16-C17-C18
34	a	409	SQD	O49-C7-C8-C9
34	A	409	SQD	C24-C23-O48-C46
34	a	409	SQD	C24-C23-O48-C46
31	7	307	CLA	CAA-CBA-CGA-O2A
31	2	307	CLA	CAA-CBA-CGA-O2A
36	A	413	LHG	O7-C7-C8-C9
36	D	407	LHG	O8-C23-C24-C25
36	a	412	LHG	O7-C7-C8-C9
36	d	407	LHG	O8-C23-C24-C25
37	D	410	LMG	O8-C28-C29-C30
37	M	101	LMG	O8-C28-C29-C30
37	d	410	LMG	O8-C28-C29-C30
37	m	101	LMG	O8-C28-C29-C30
31	D	404	CLA	C5-C6-C7-C8
31	d	404	CLA	C5-C6-C7-C8
34	A	409	SQD	O49-C7-C8-C9
31	c	513	CLA	C16-C17-C18-C20
31	C	511	CLA	C8-C10-C11-C12
31	c	511	CLA	C8-C10-C11-C12

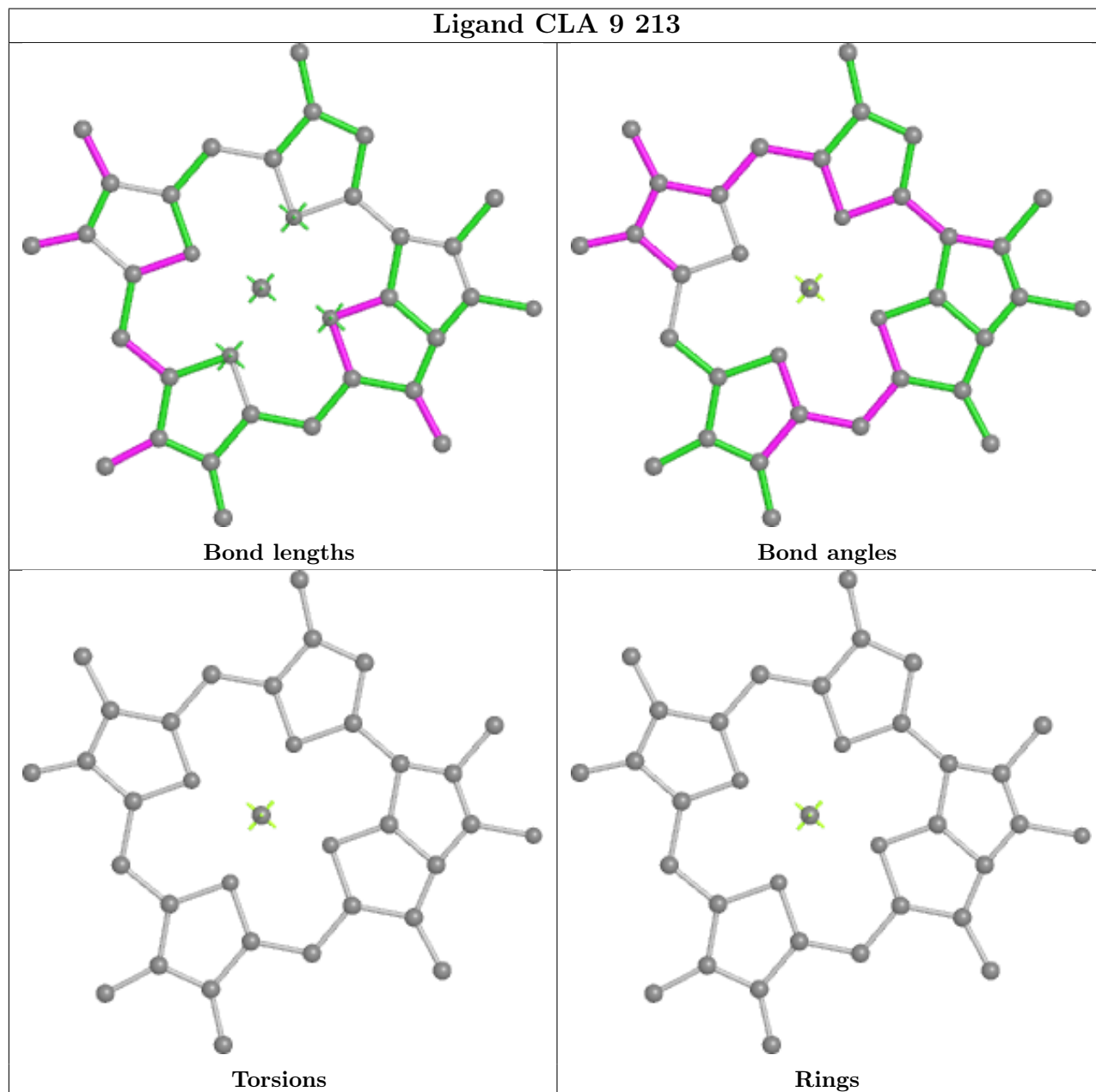
All (2) ring outliers are listed below:

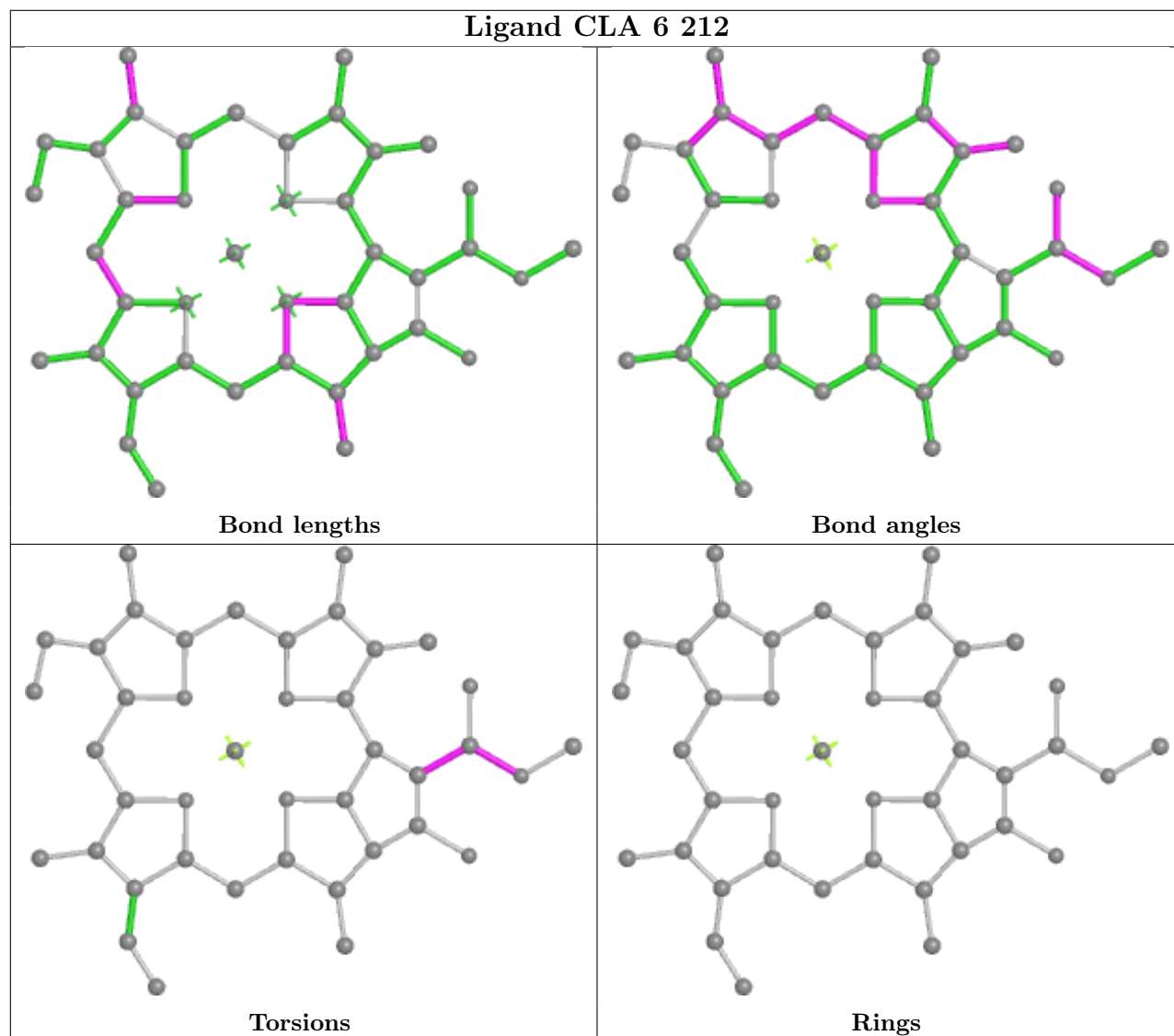
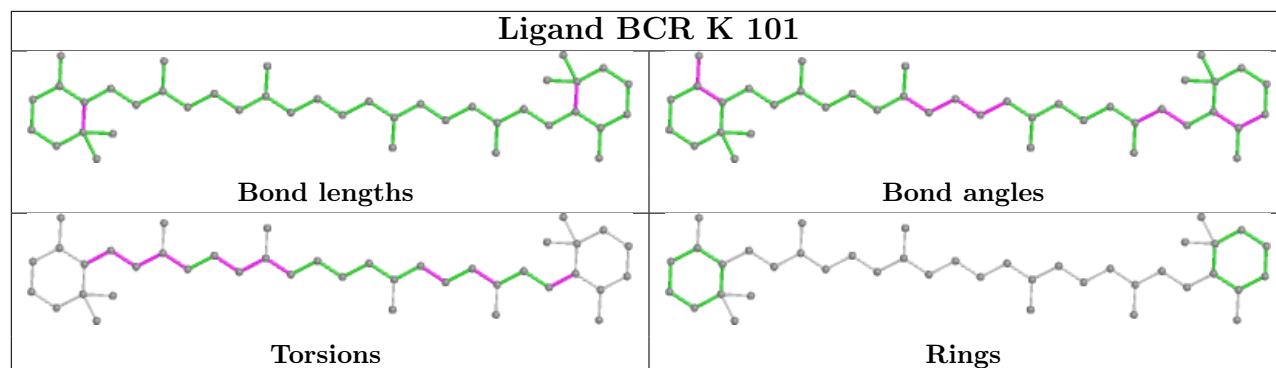
Mol	Chain	Res	Type	Atoms
42	4	201	A86	C31-C32-C33-C34-C35-C36
42	9	201	A86	C31-C32-C33-C34-C35-C36

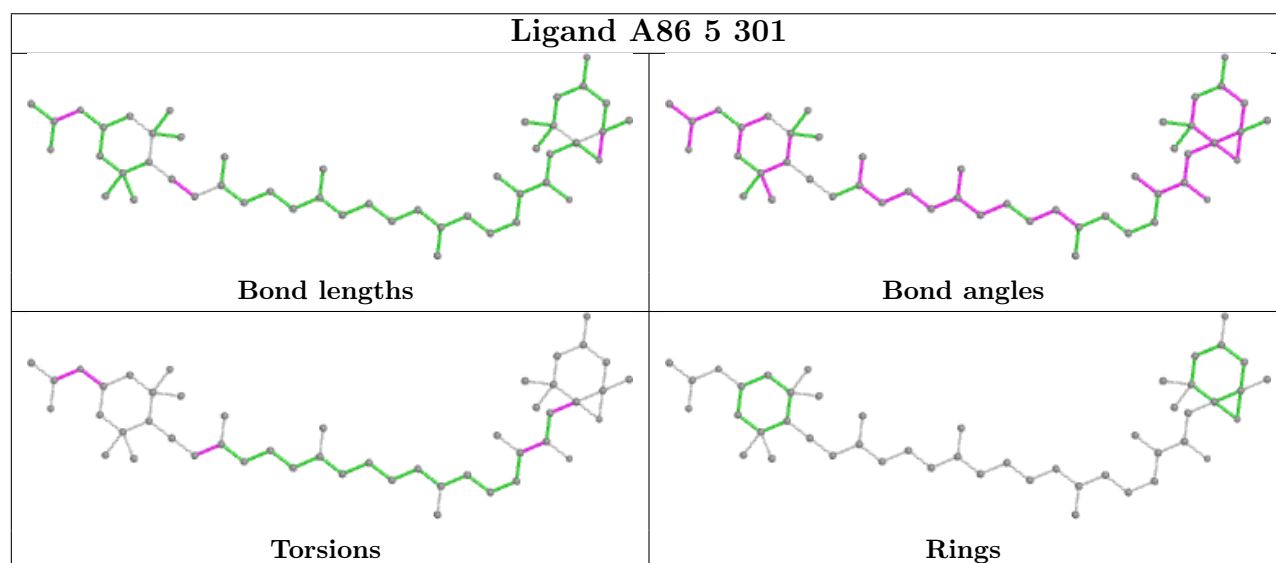
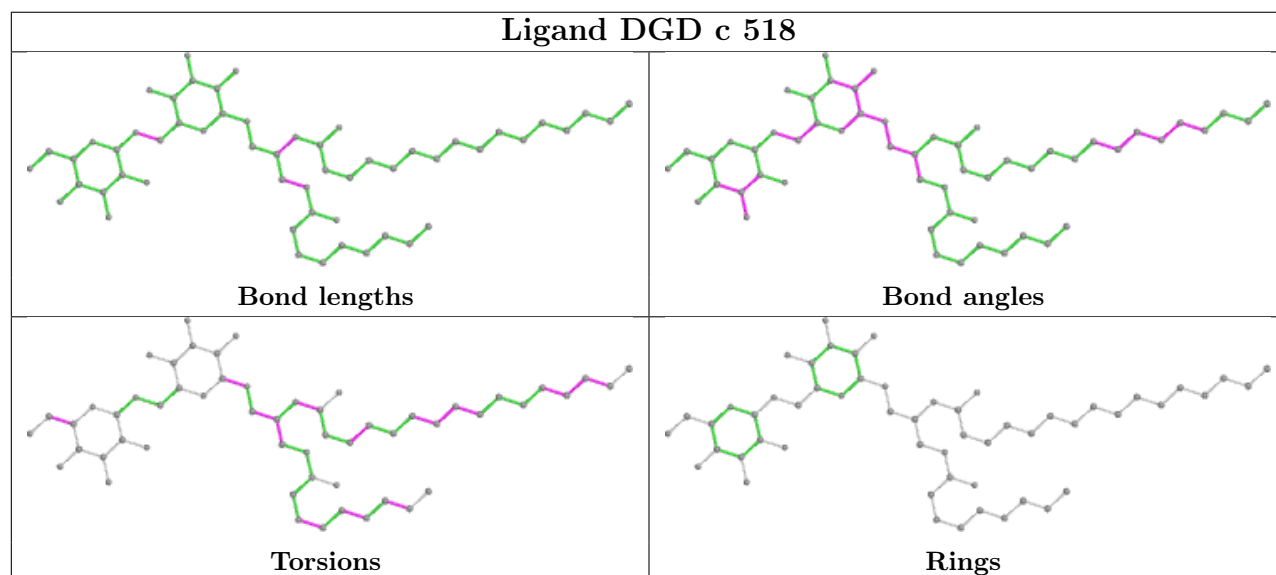
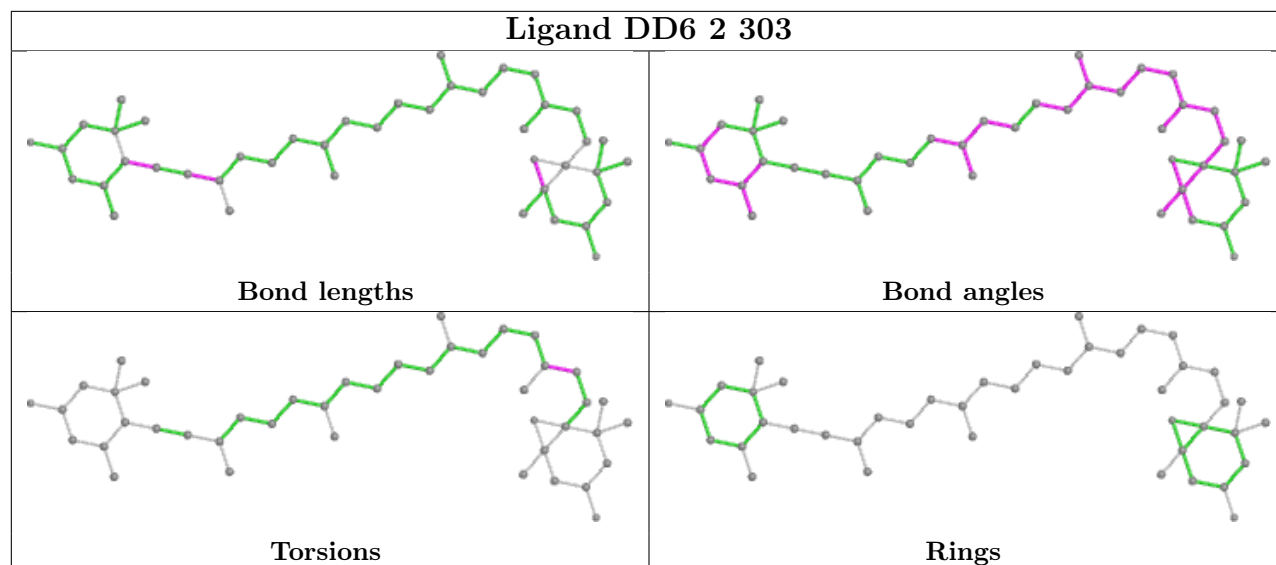
No monomer is involved in short contacts.

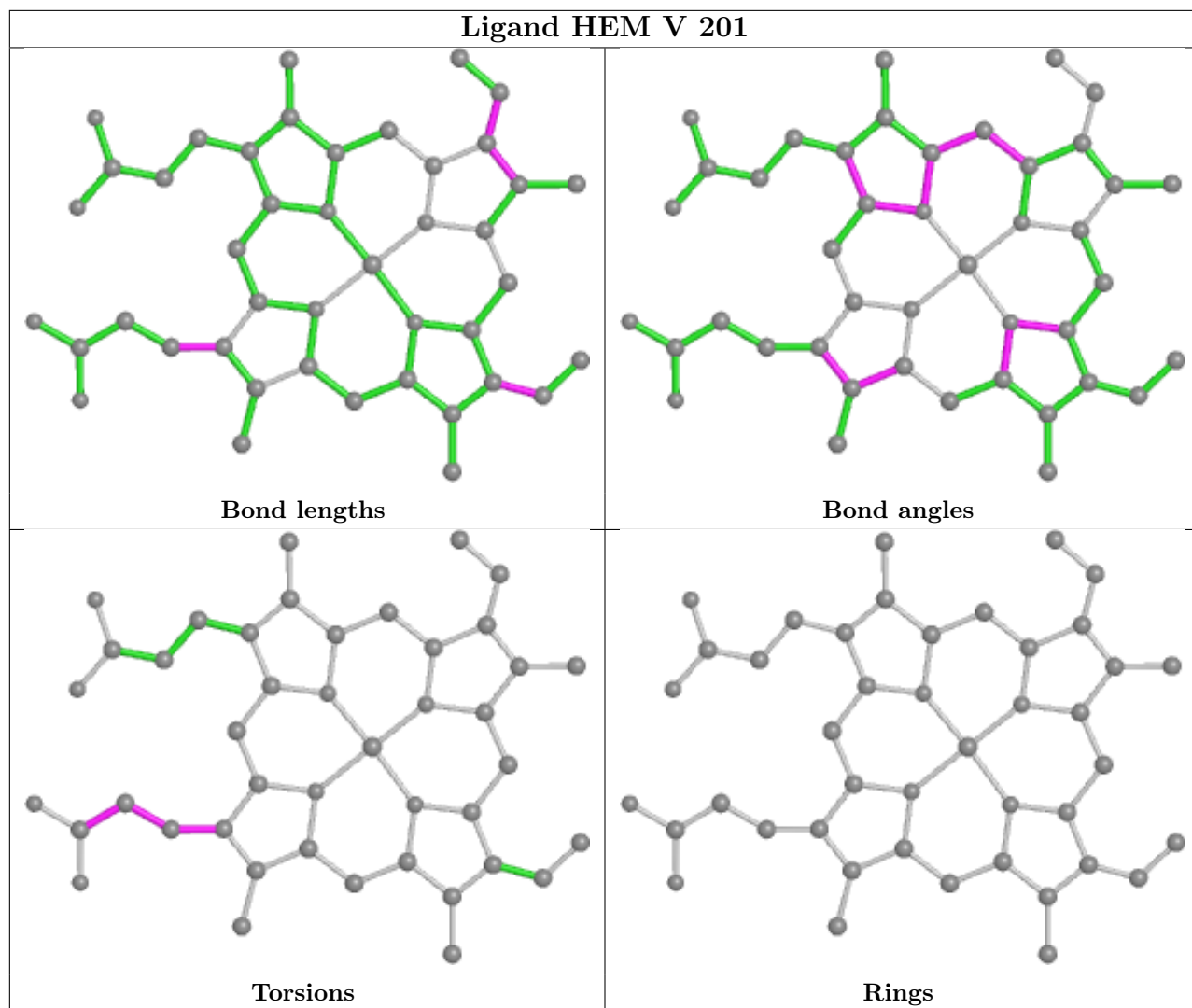
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

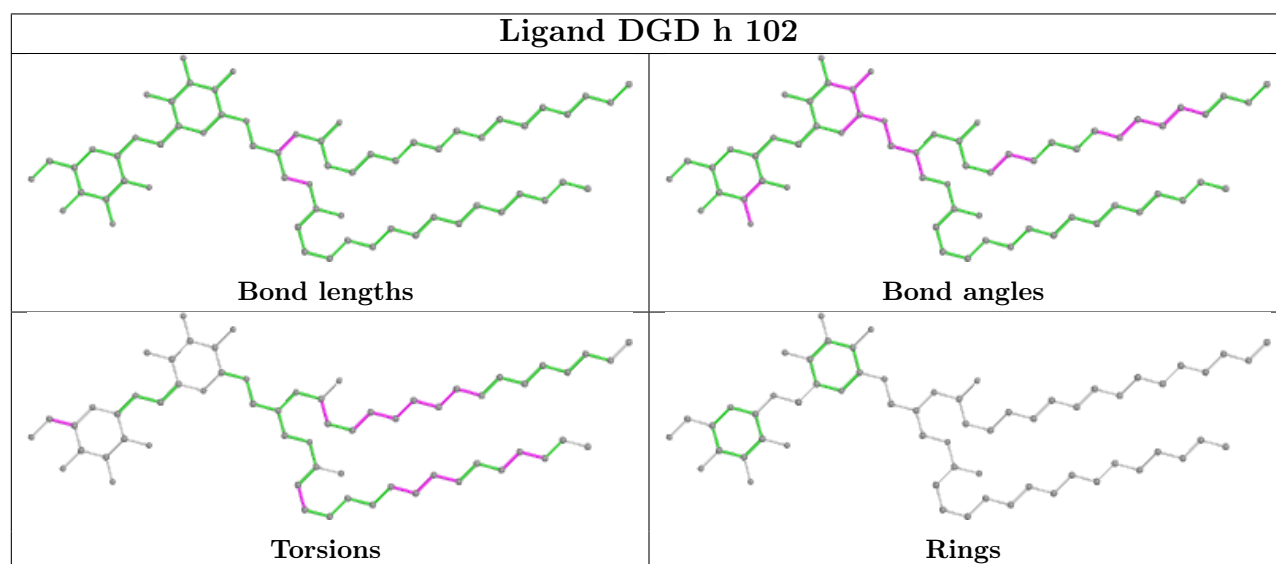
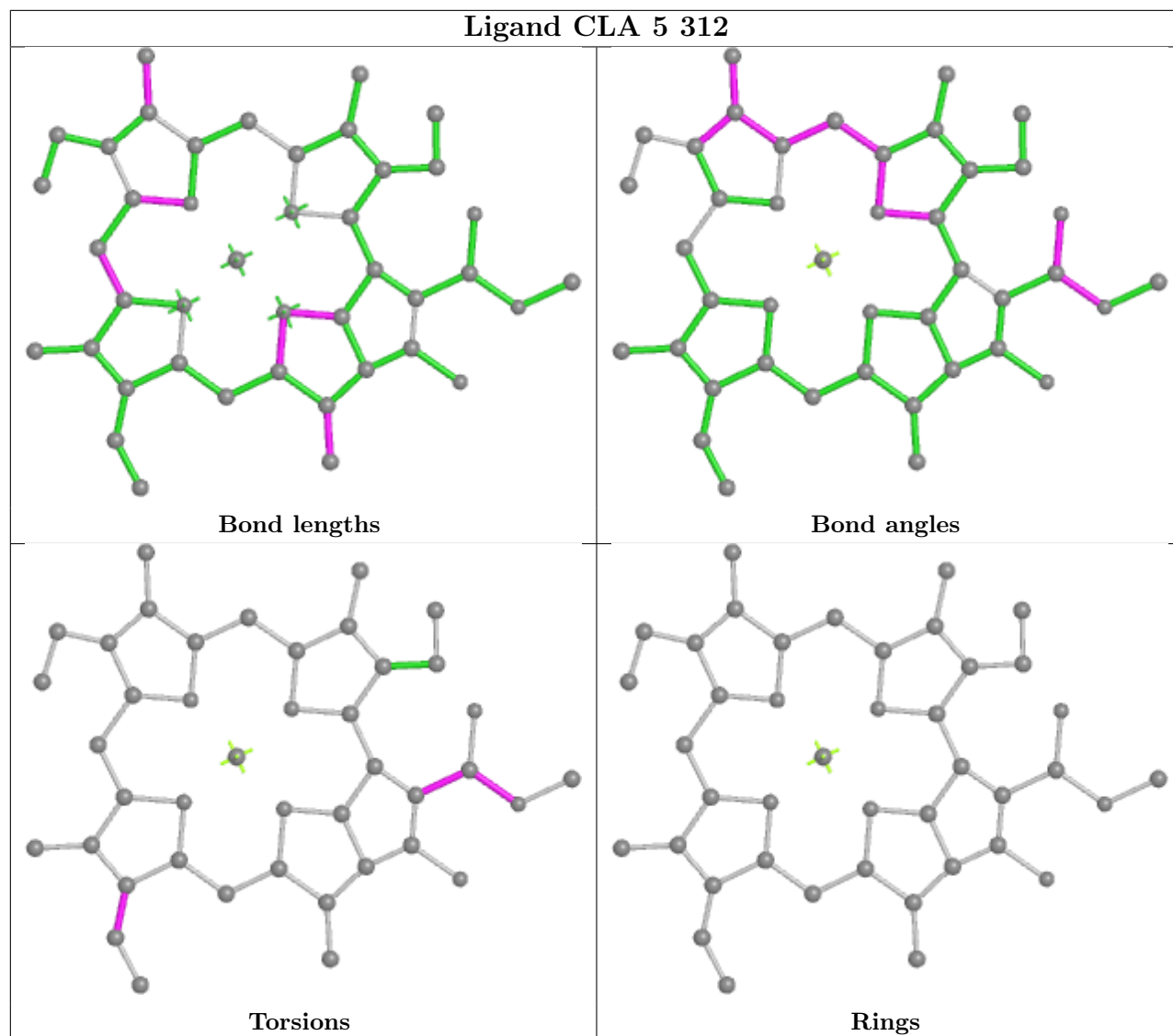
addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. 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.



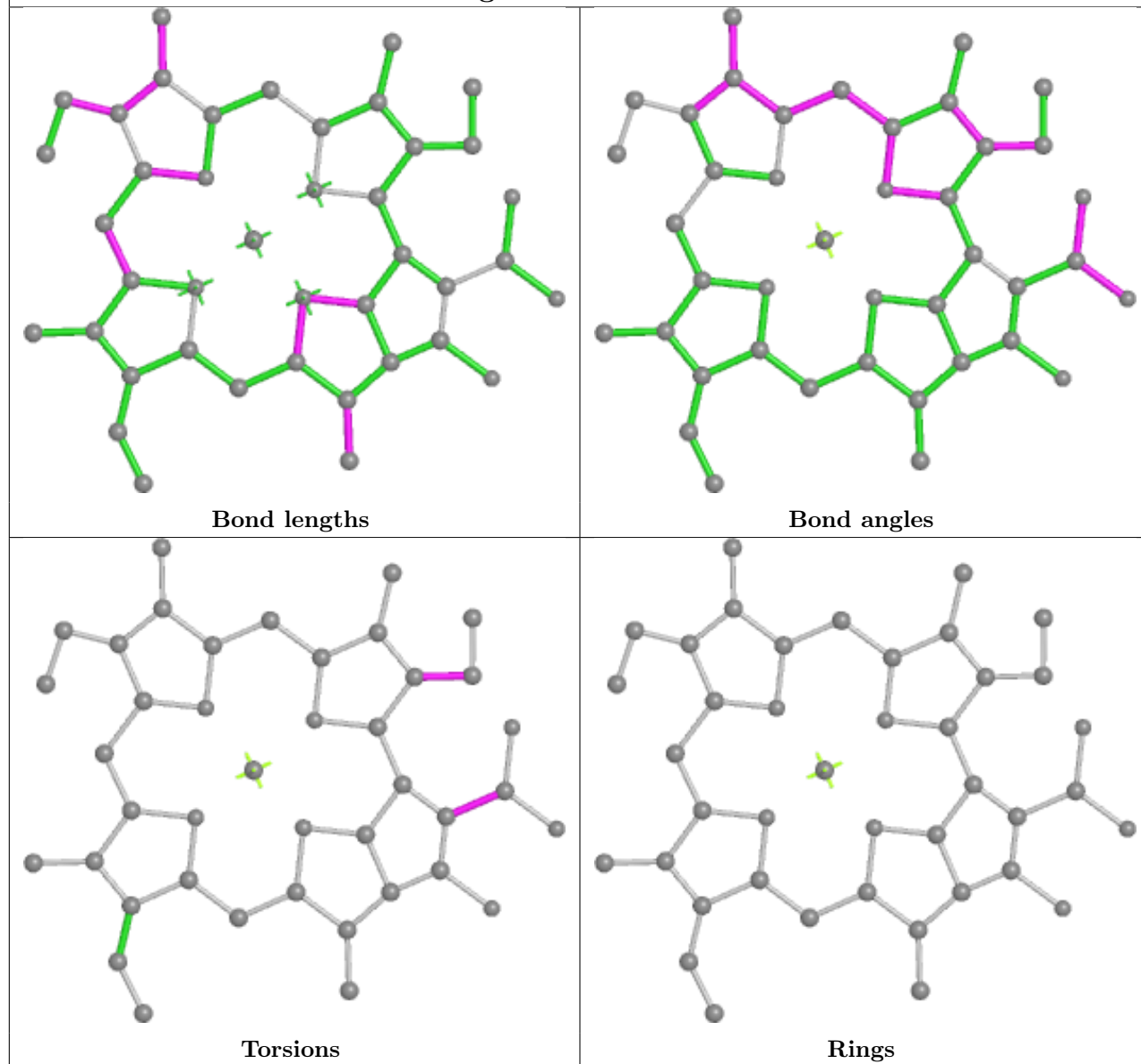




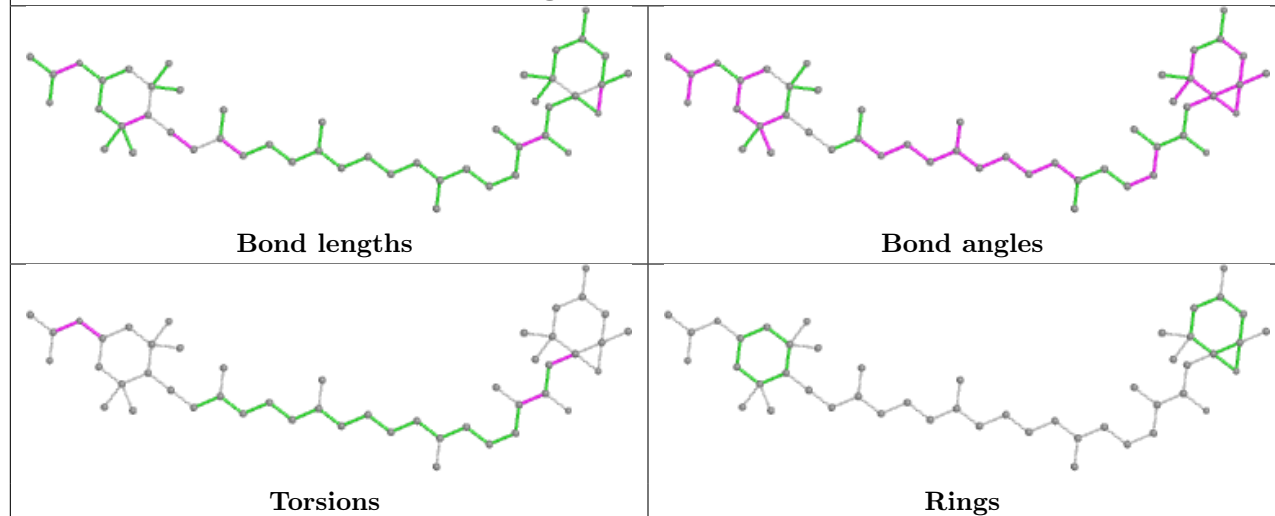




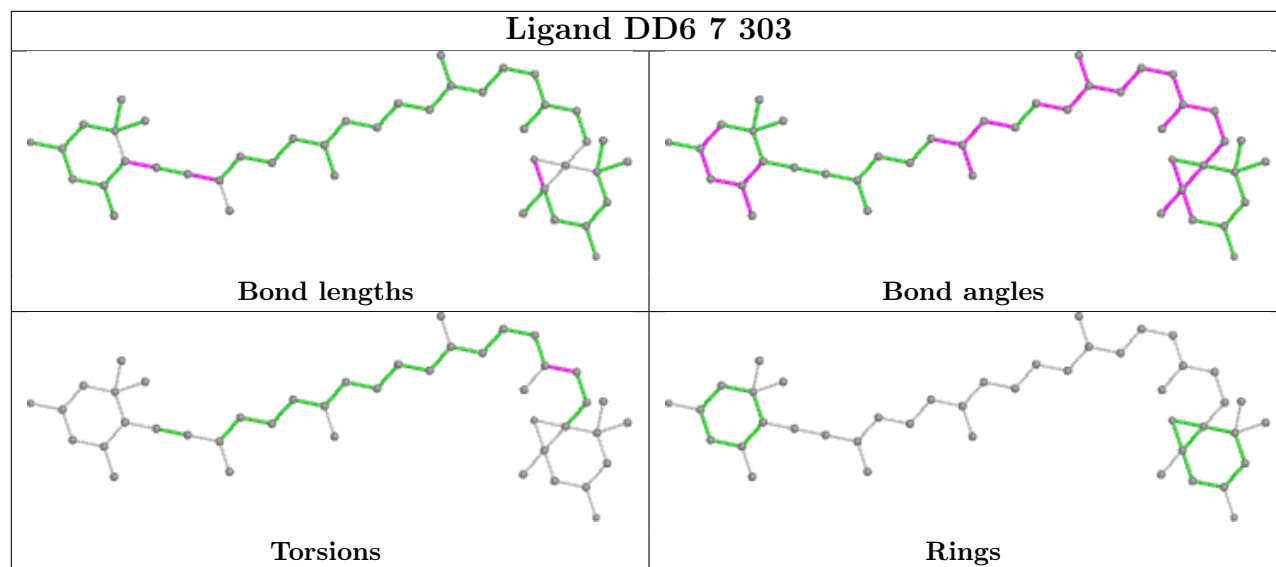
## Ligand CLA 8 312



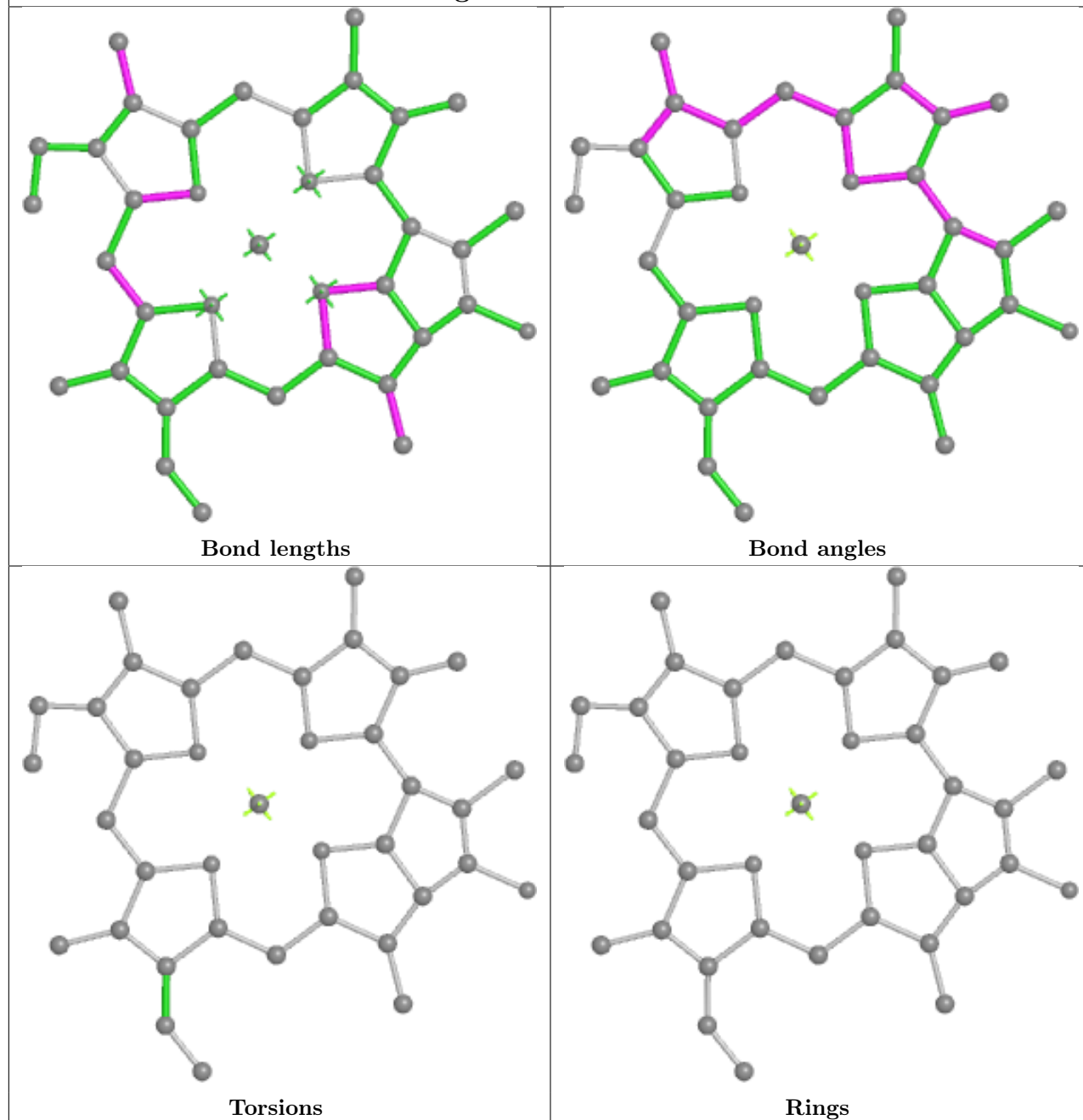
## Ligand A86 7 302

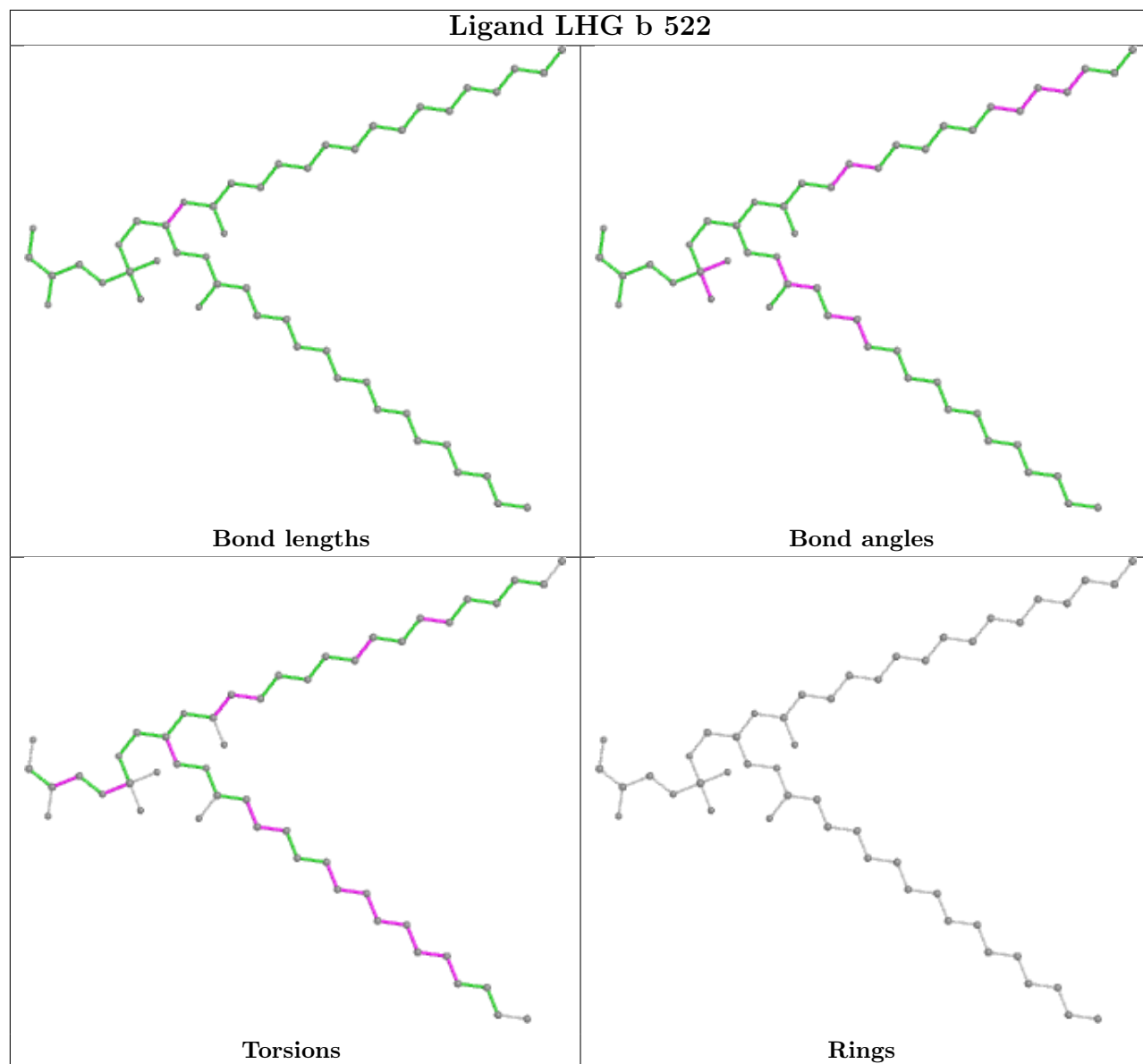


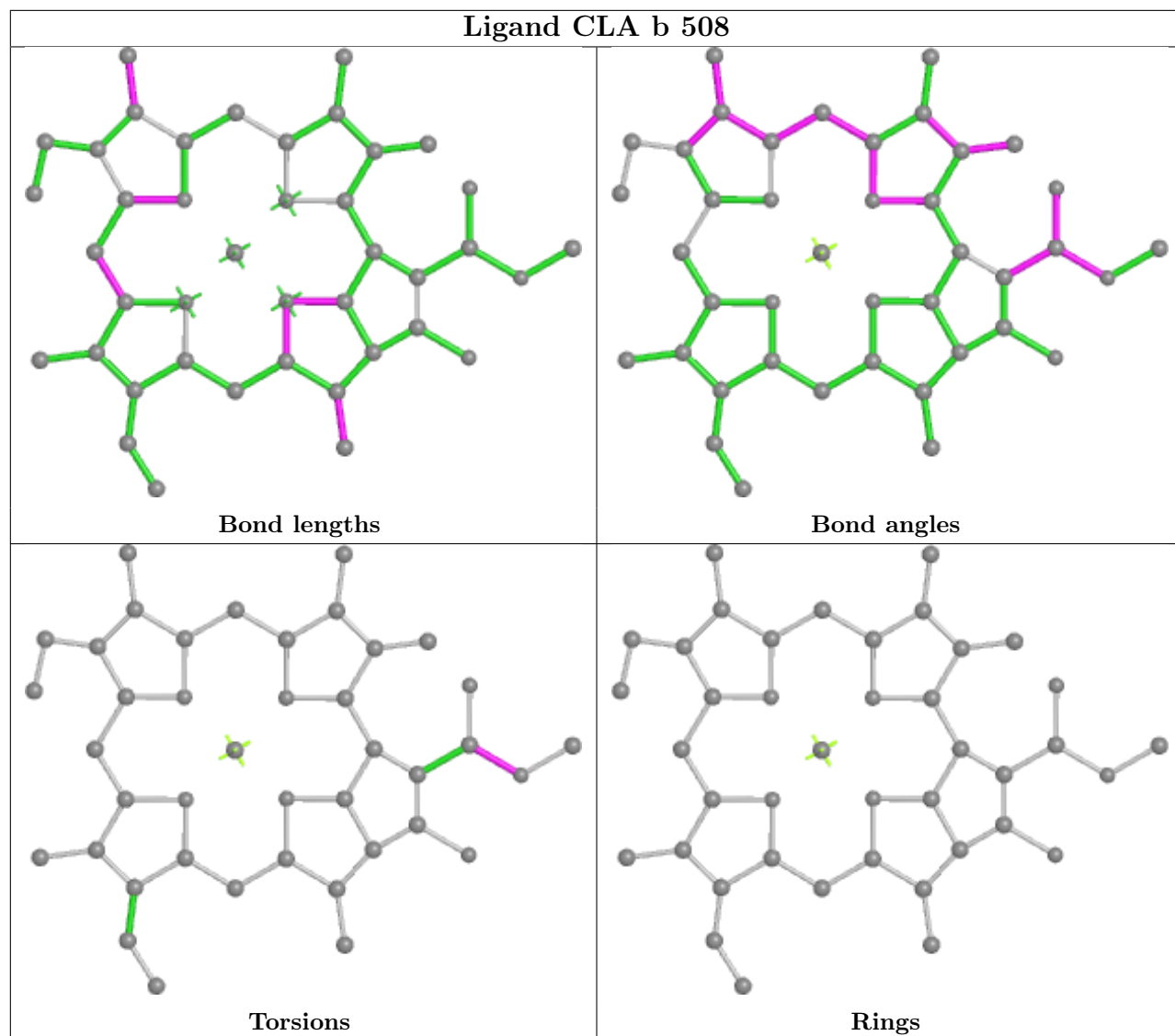


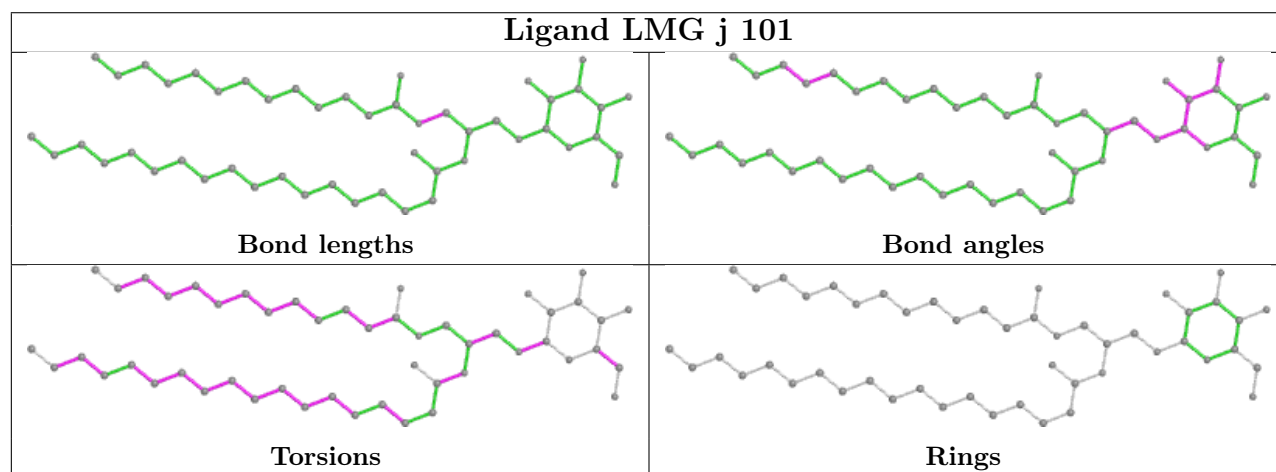
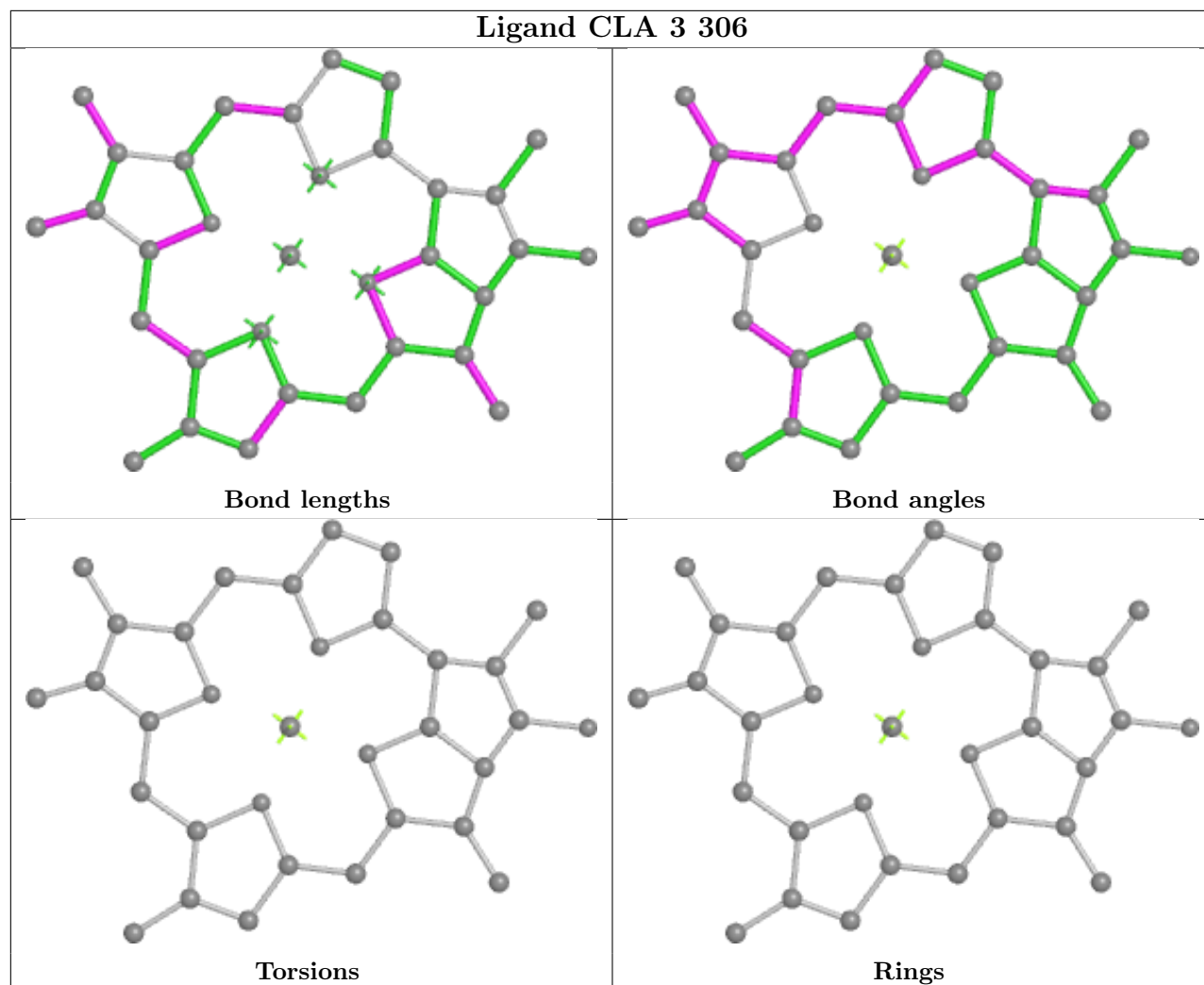


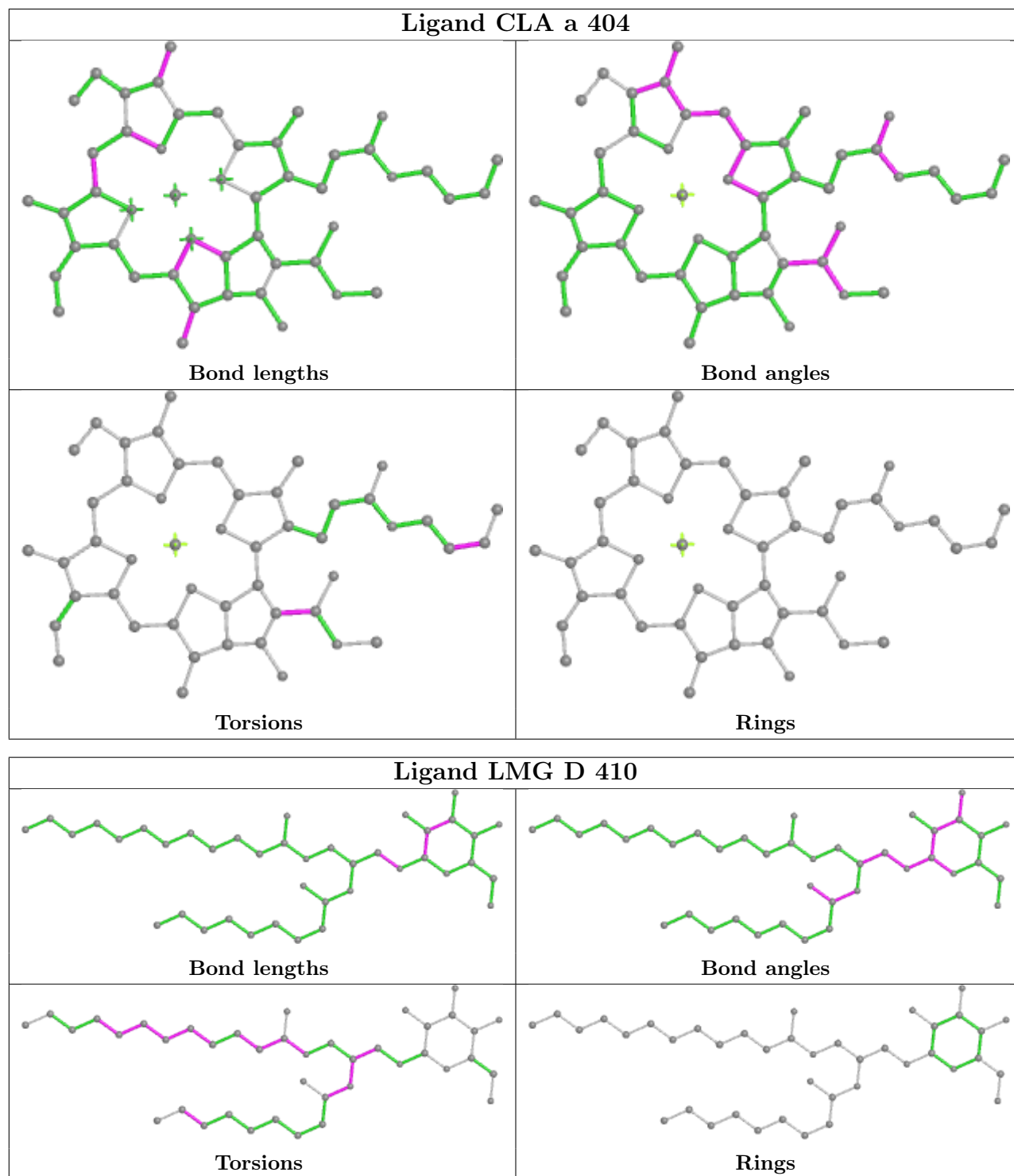
## Ligand CLA 9 204

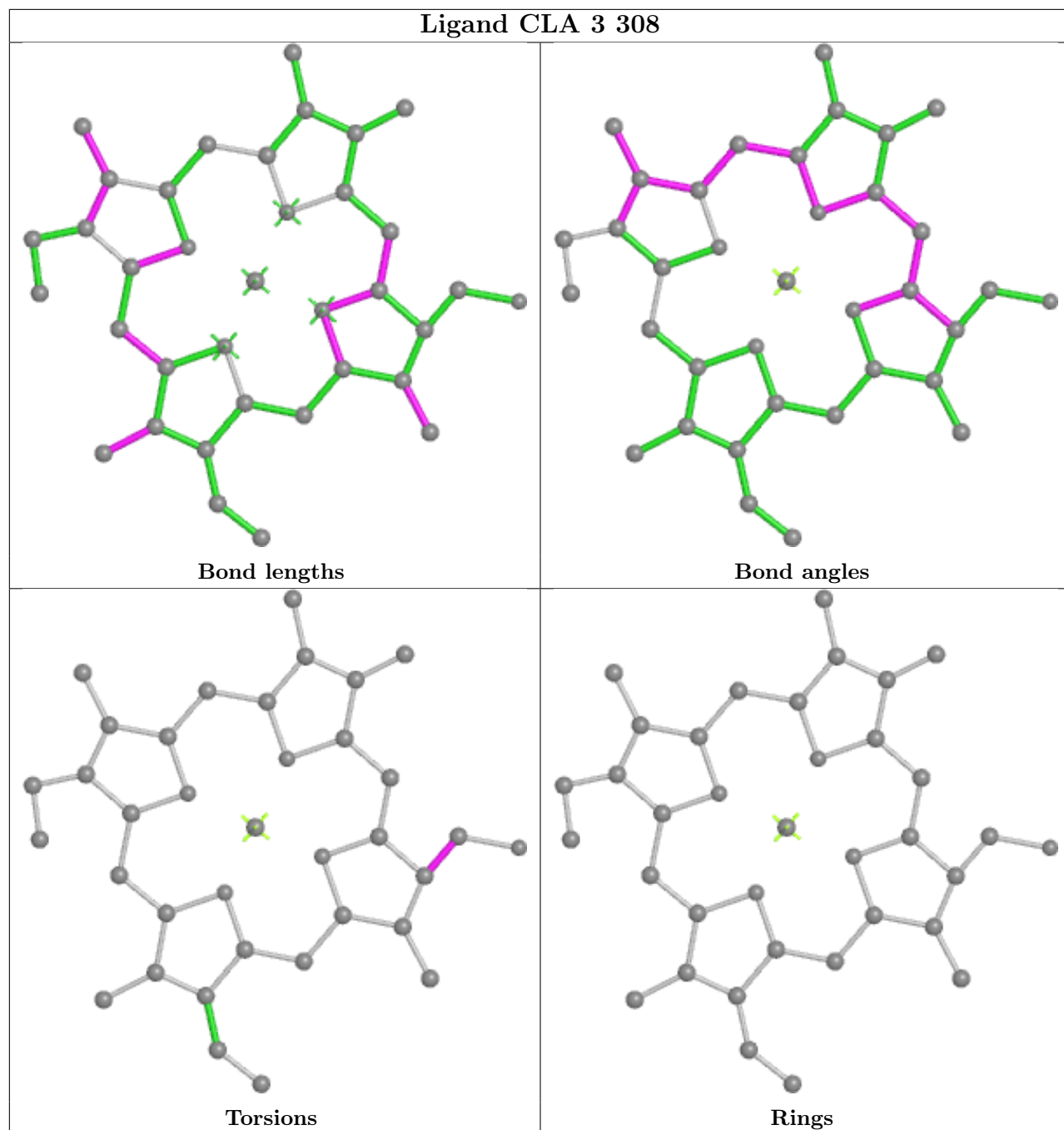


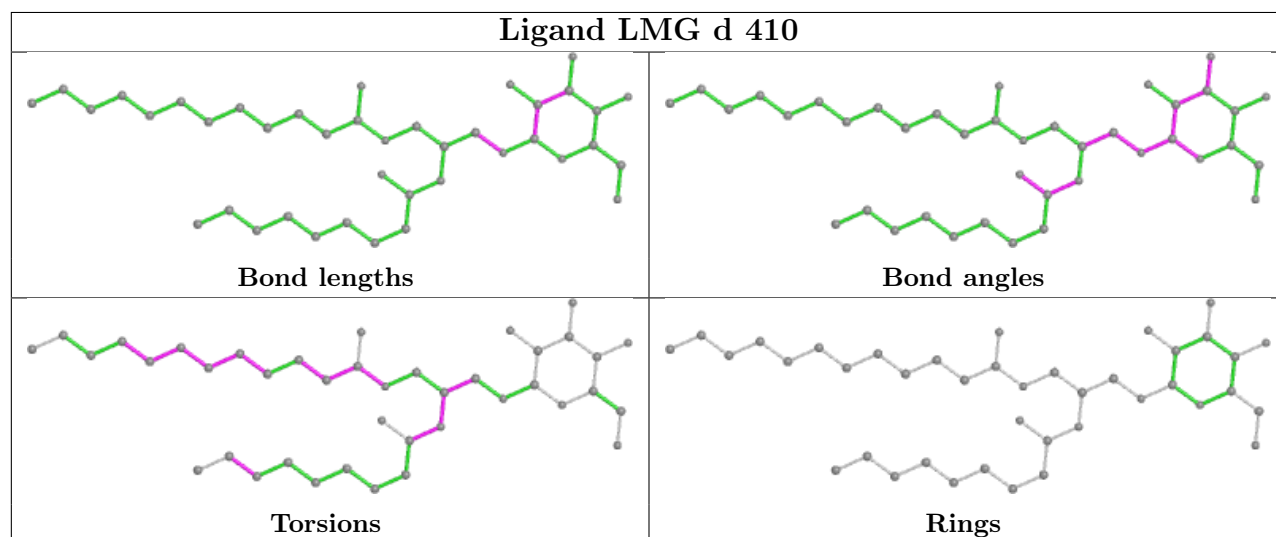
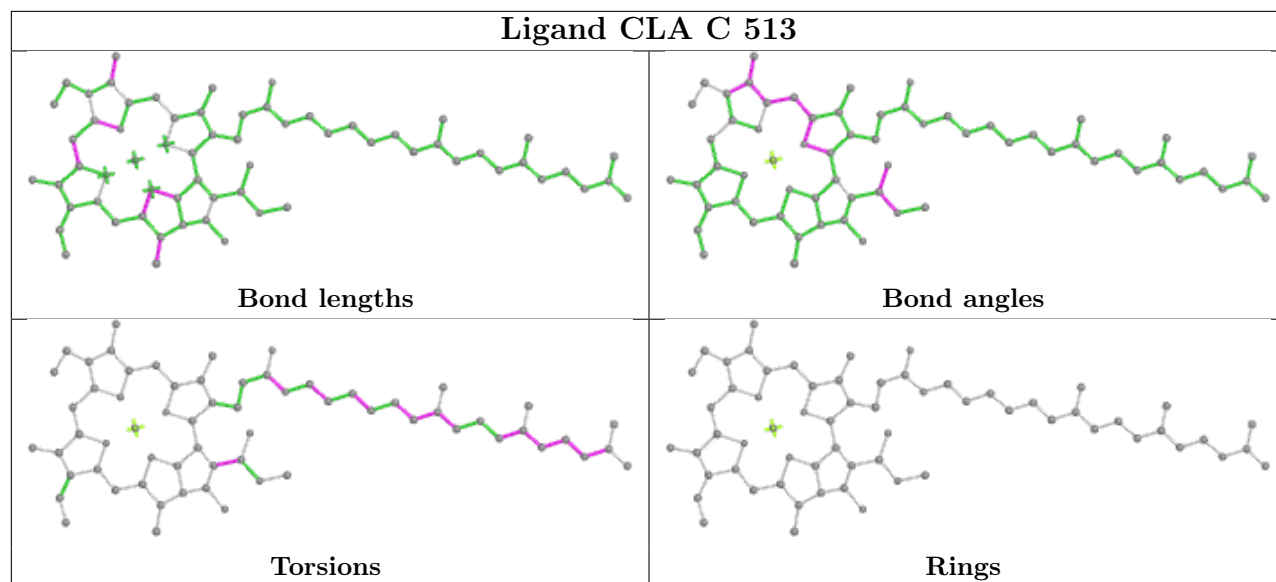




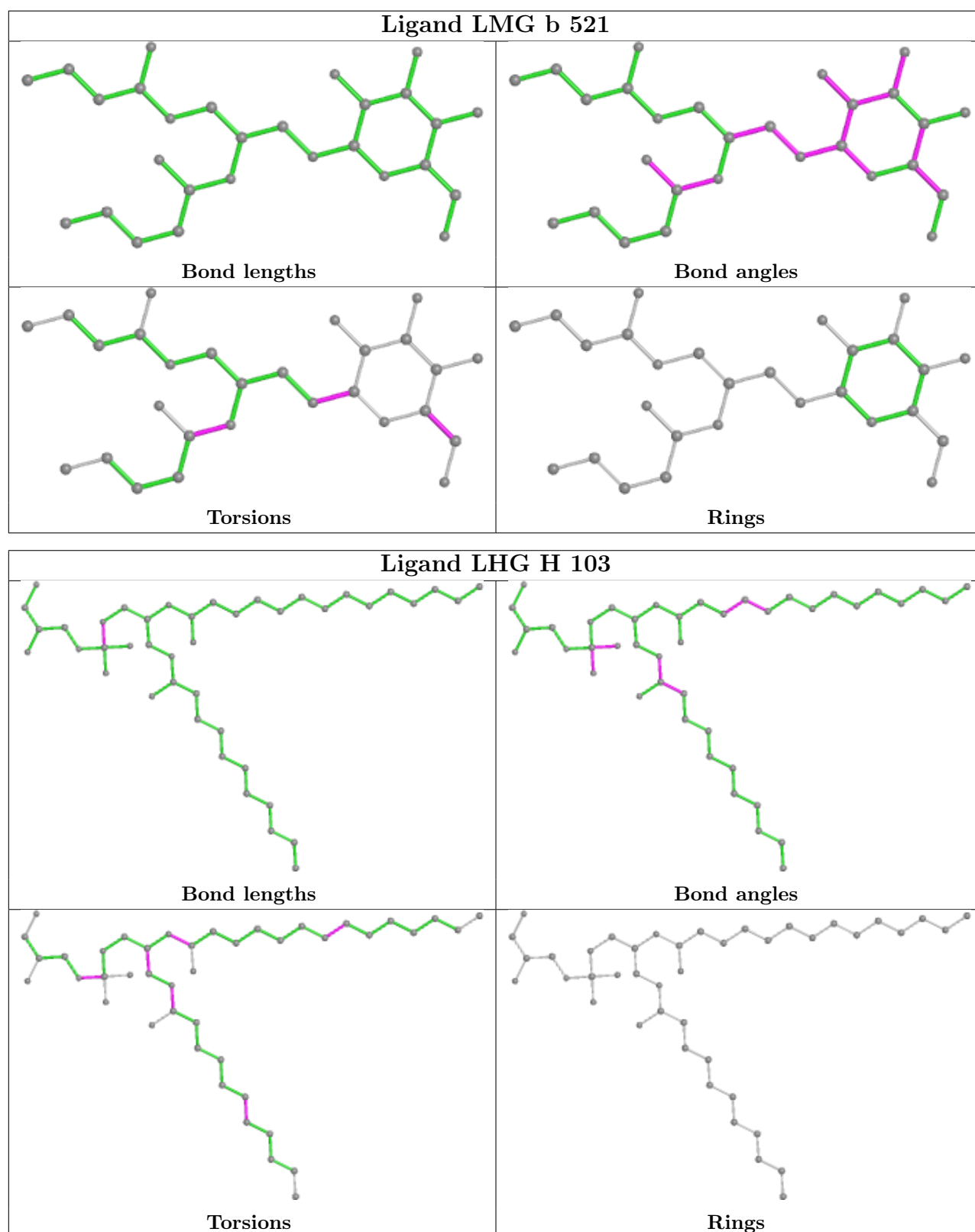


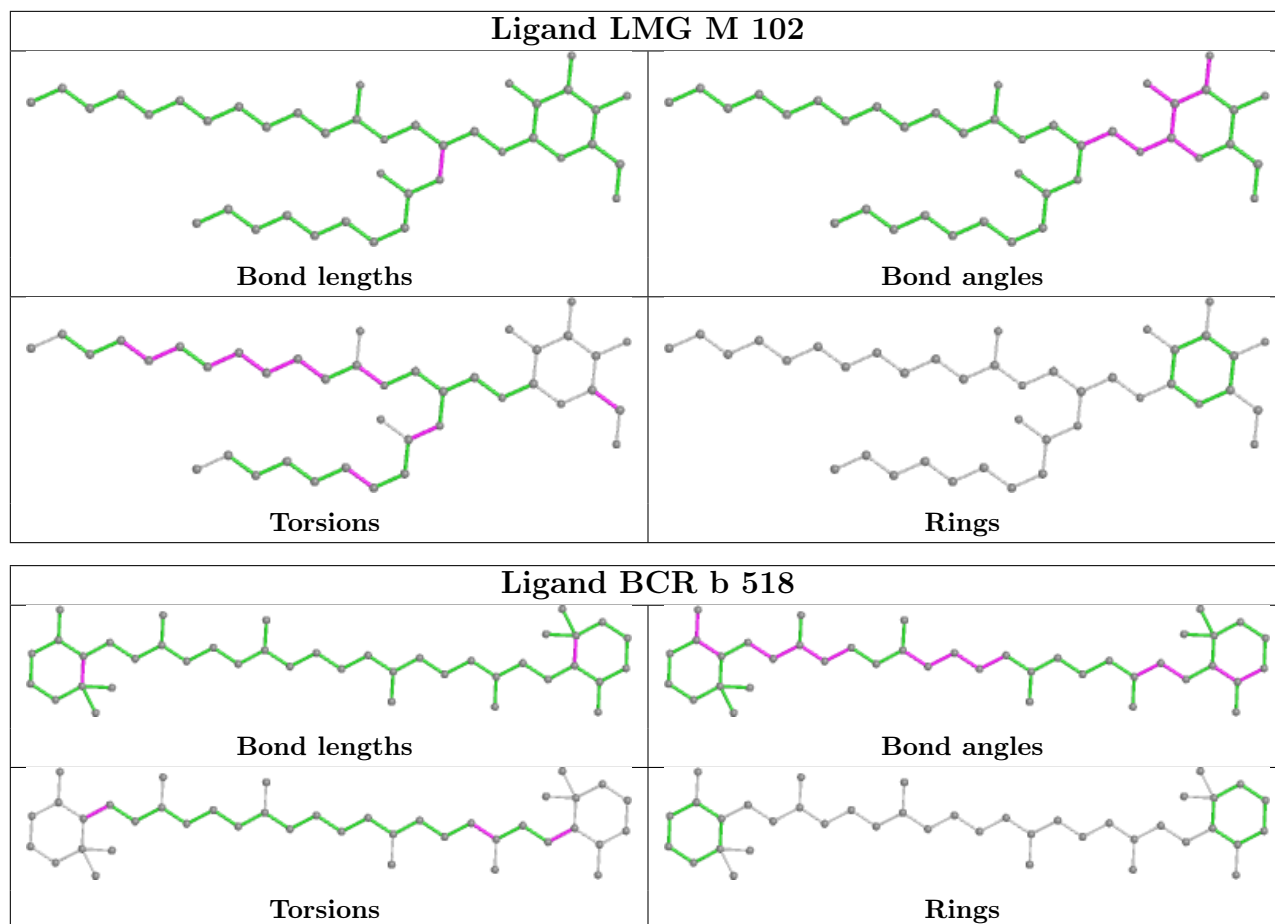


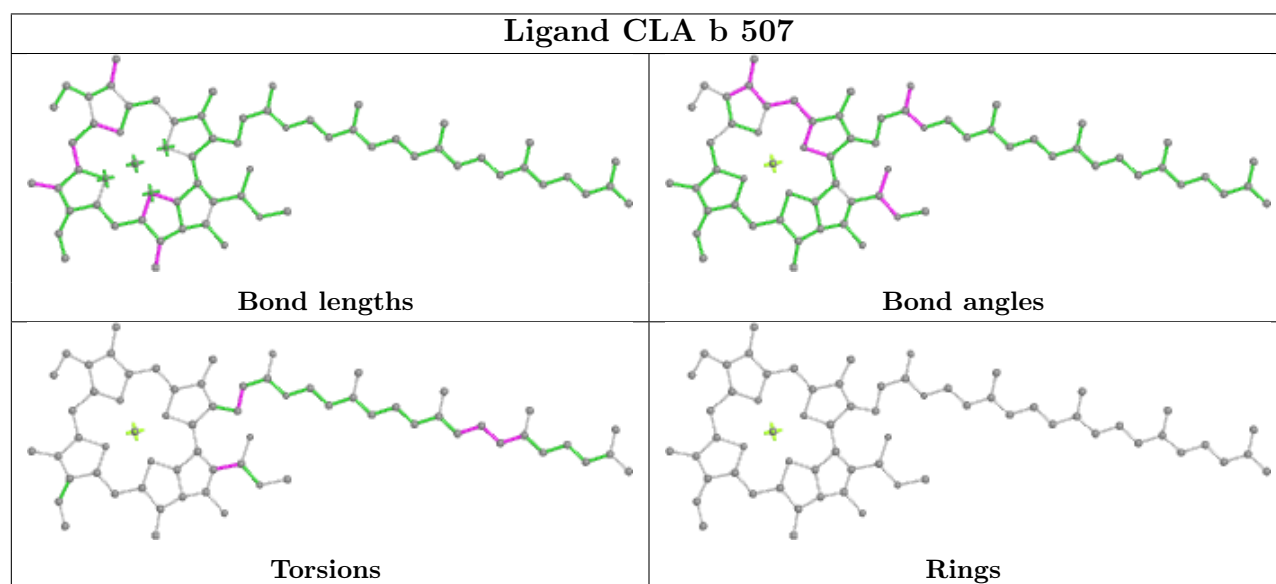
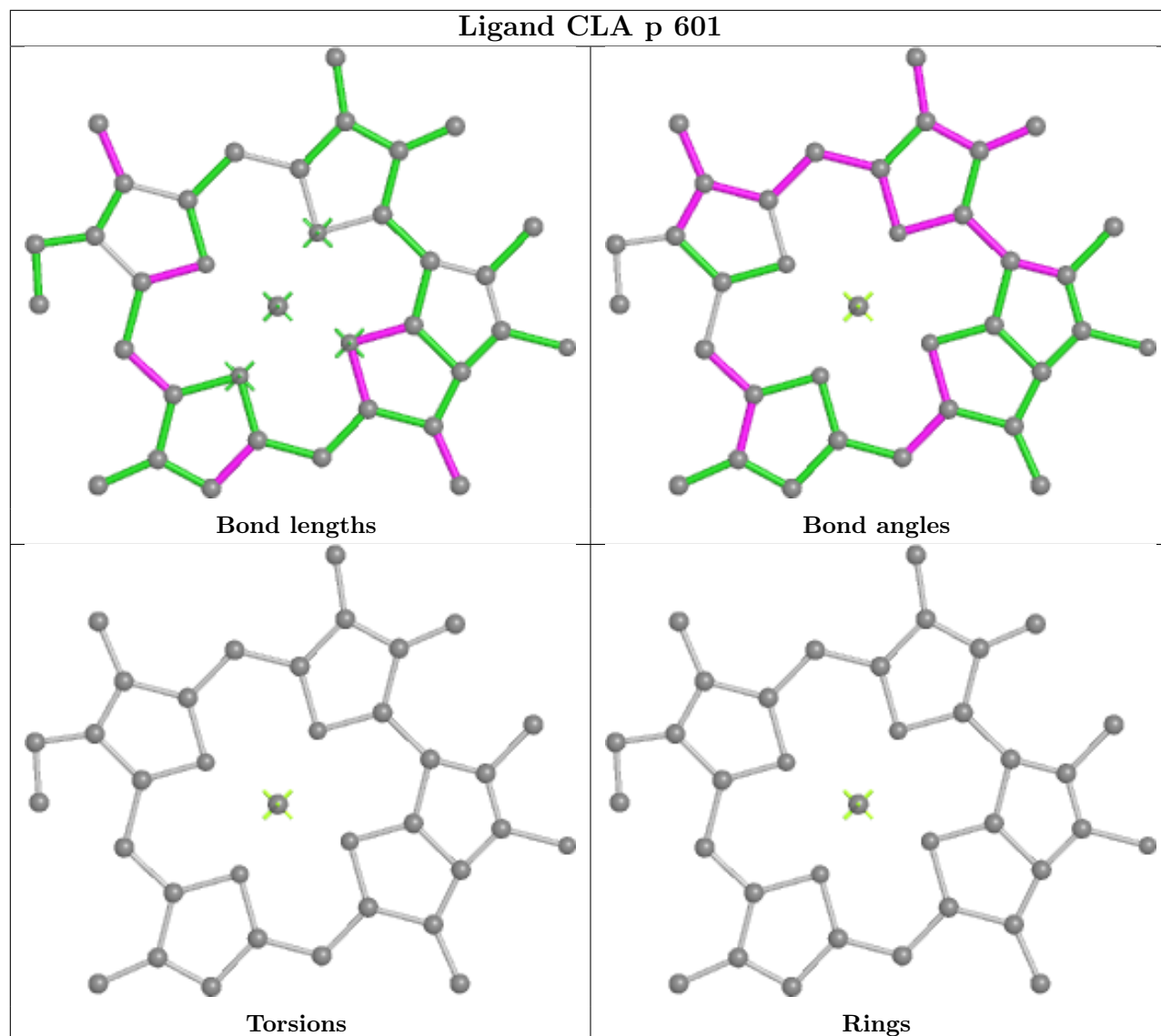


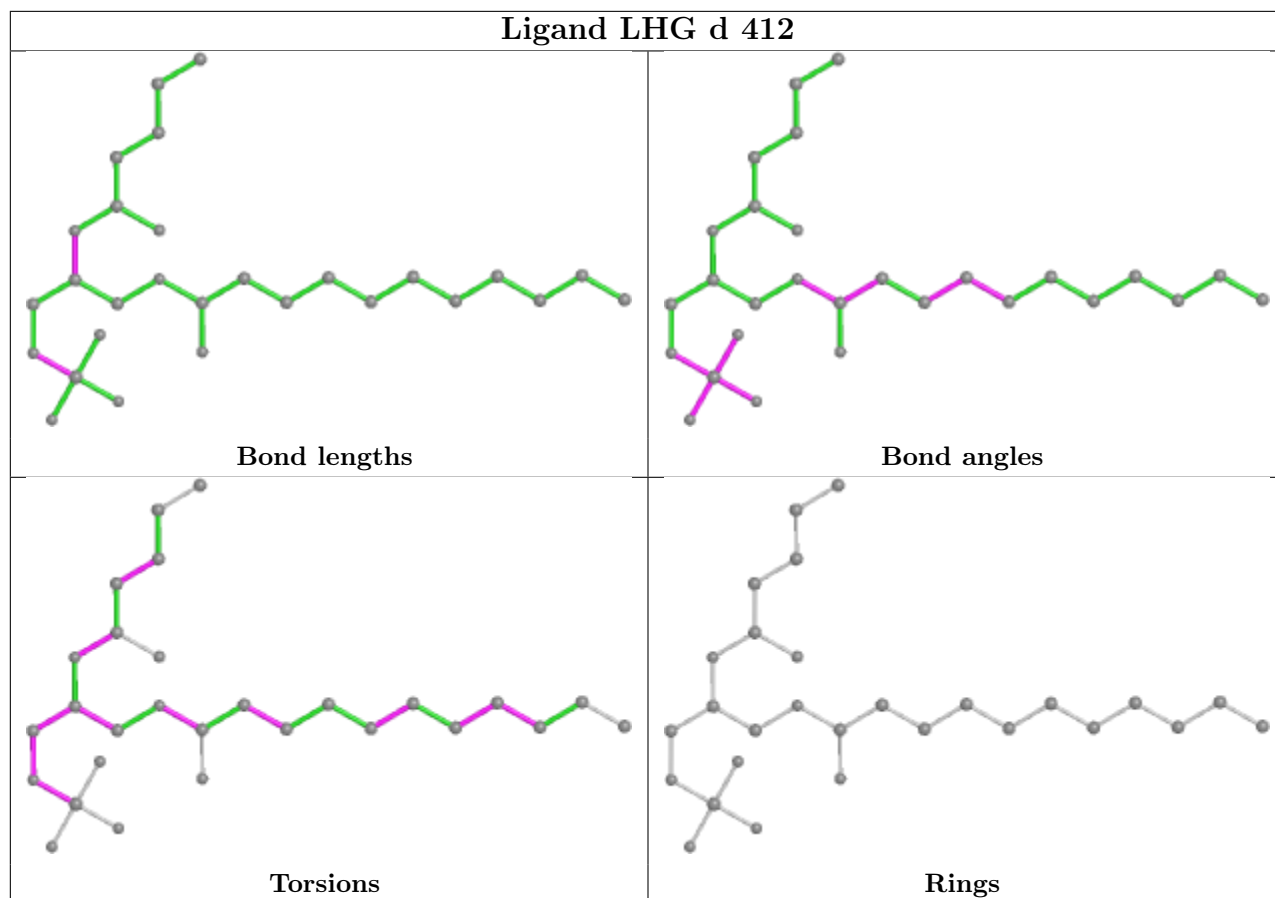




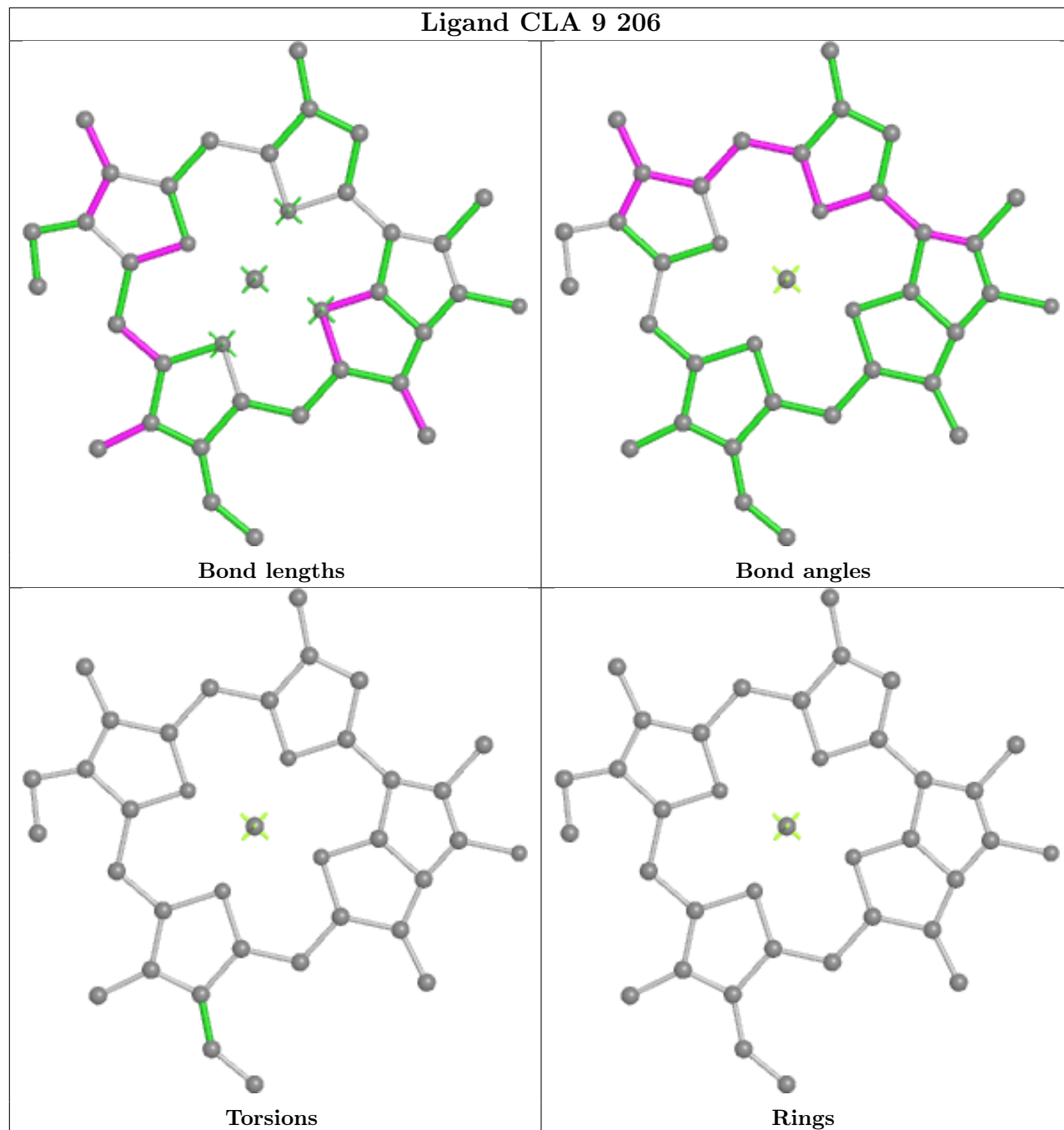


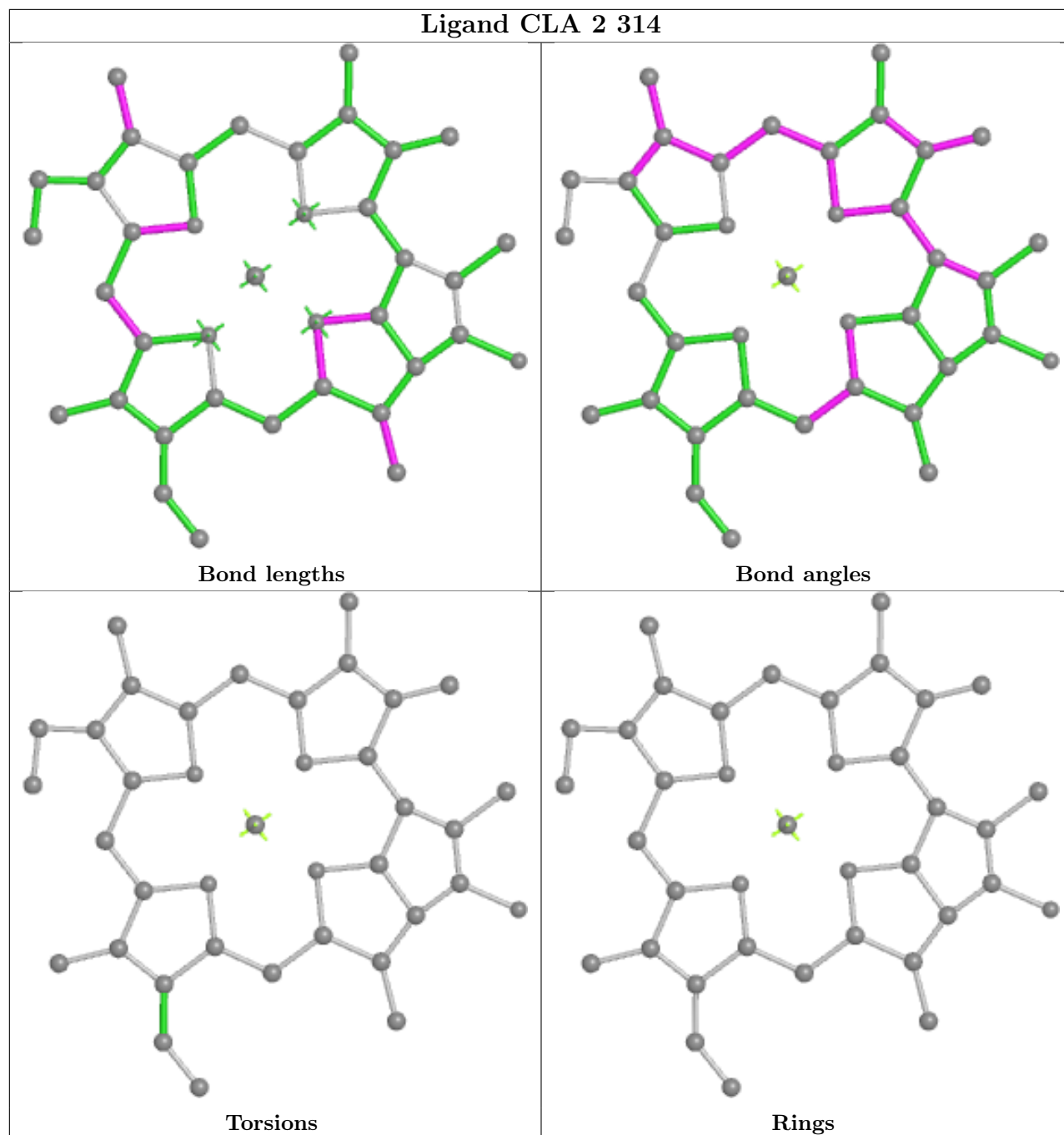


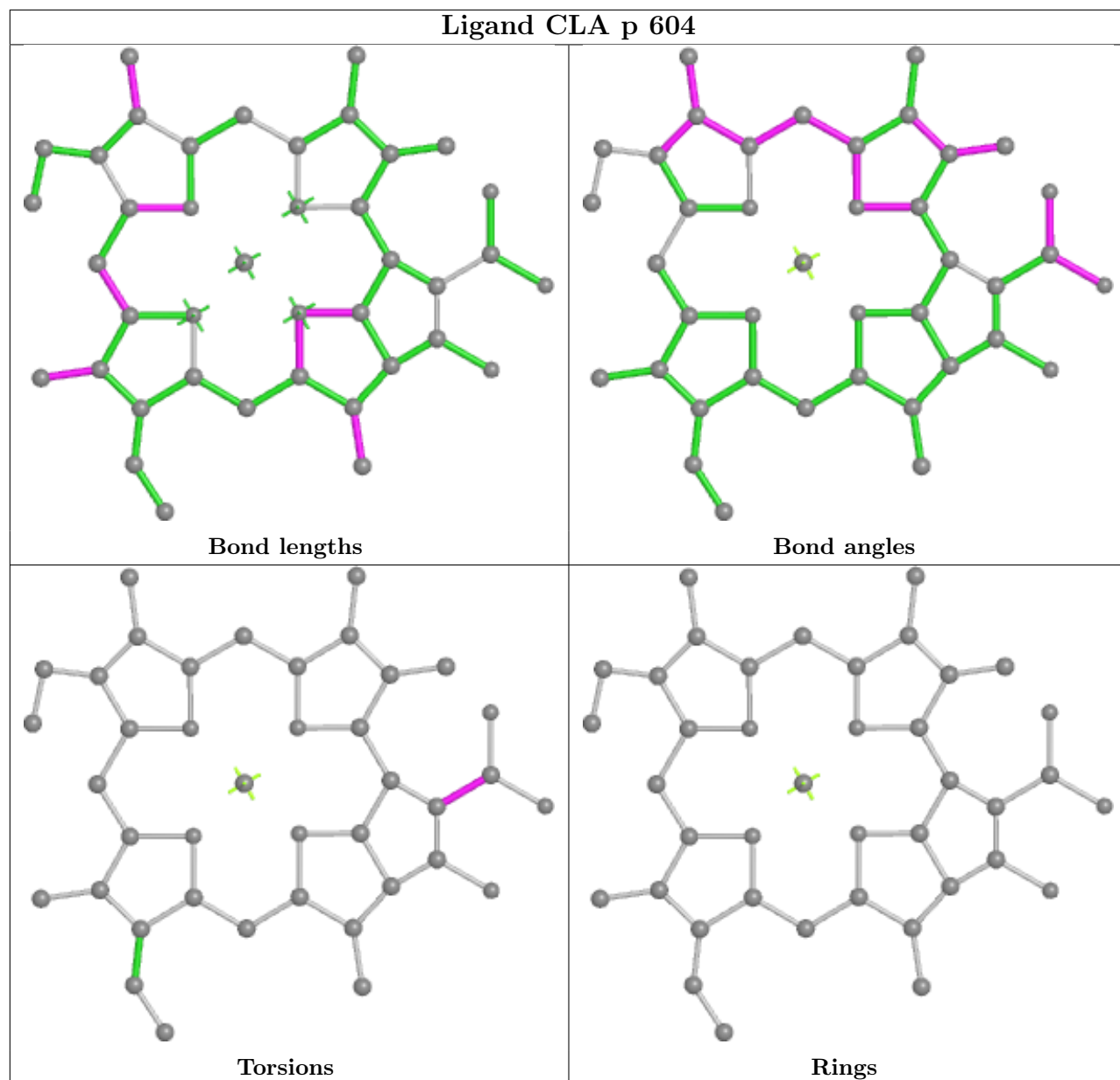


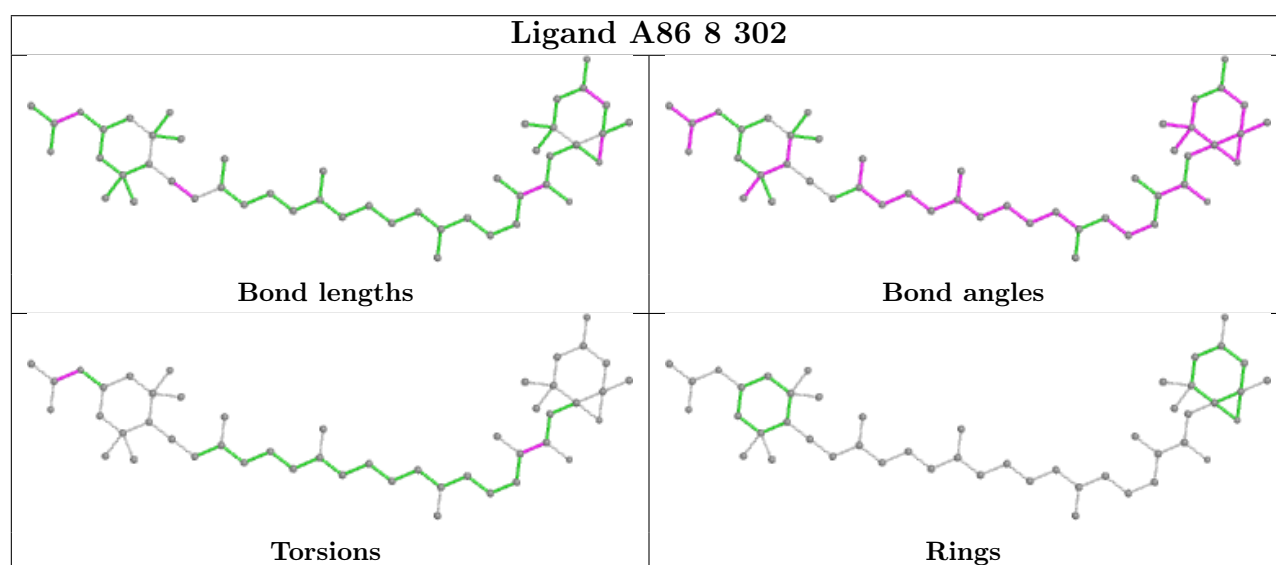
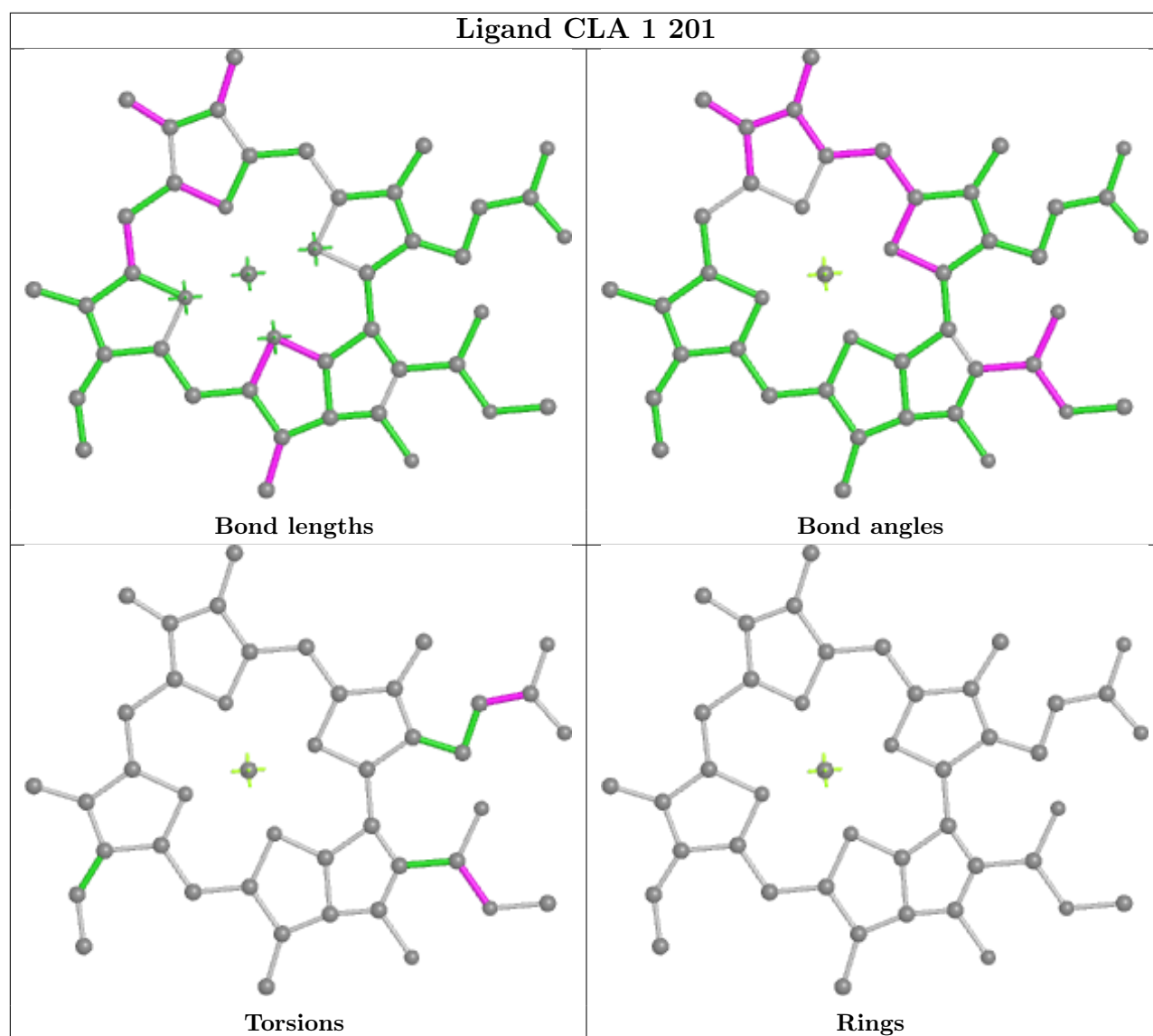


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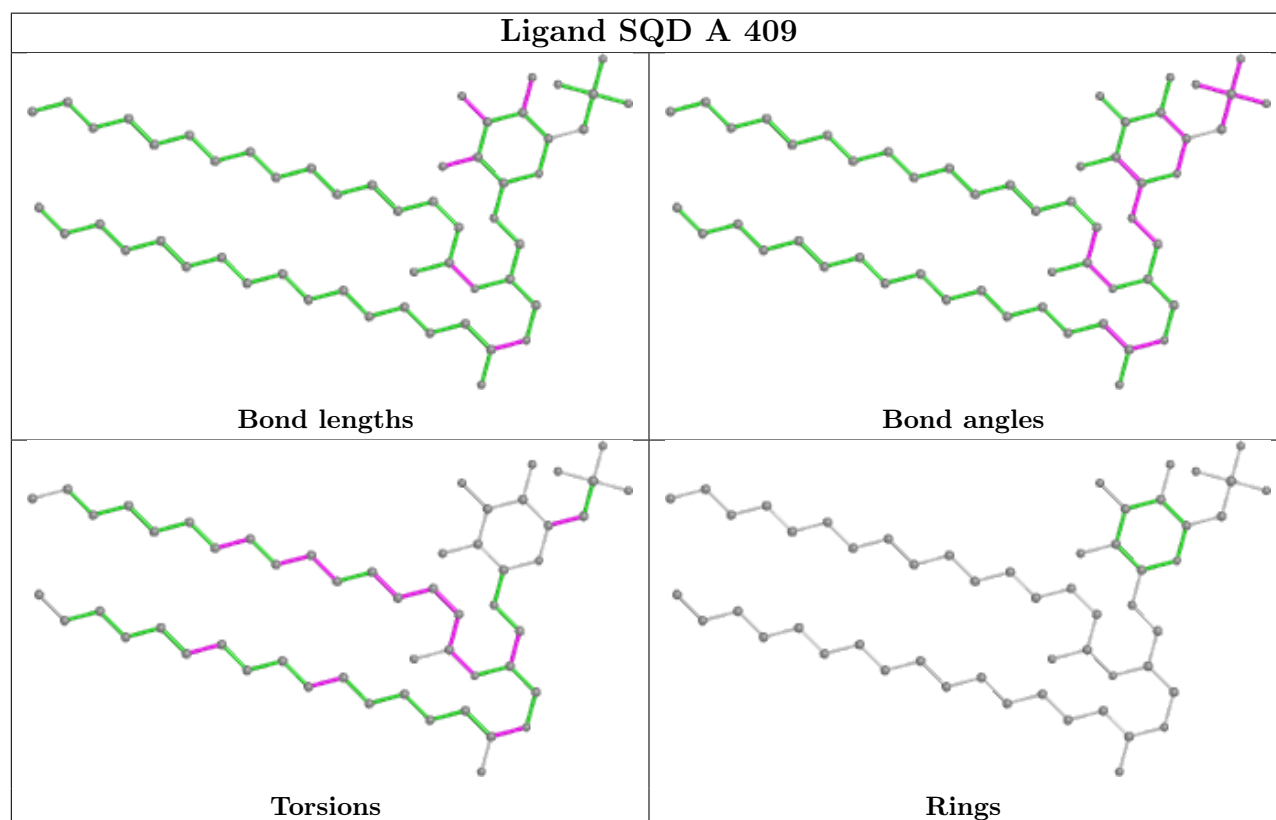
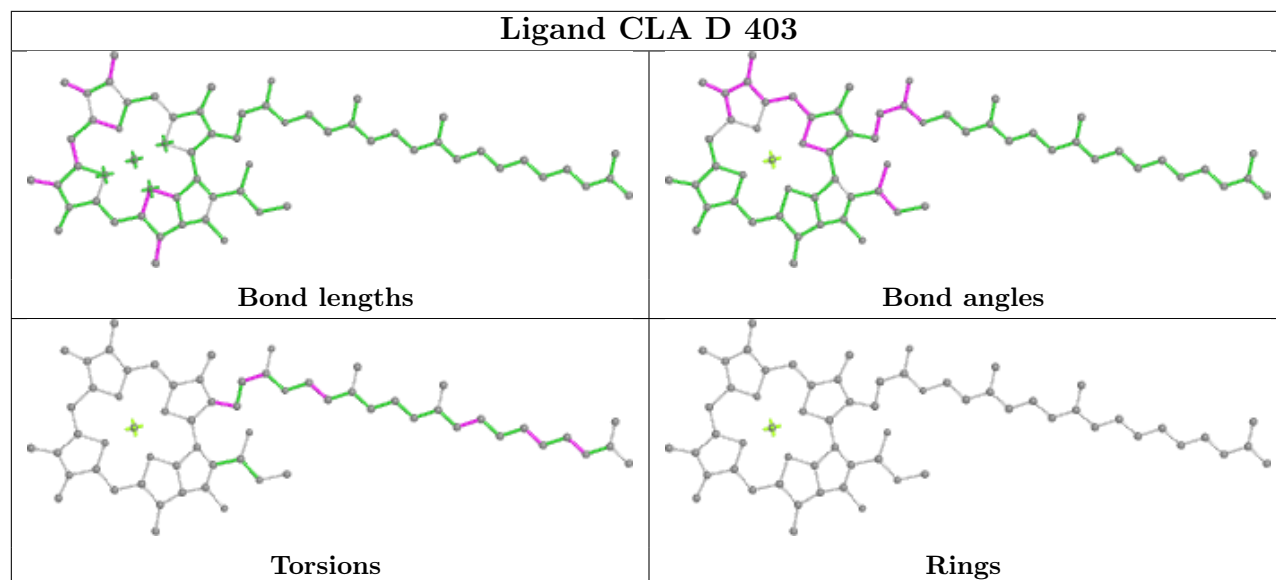


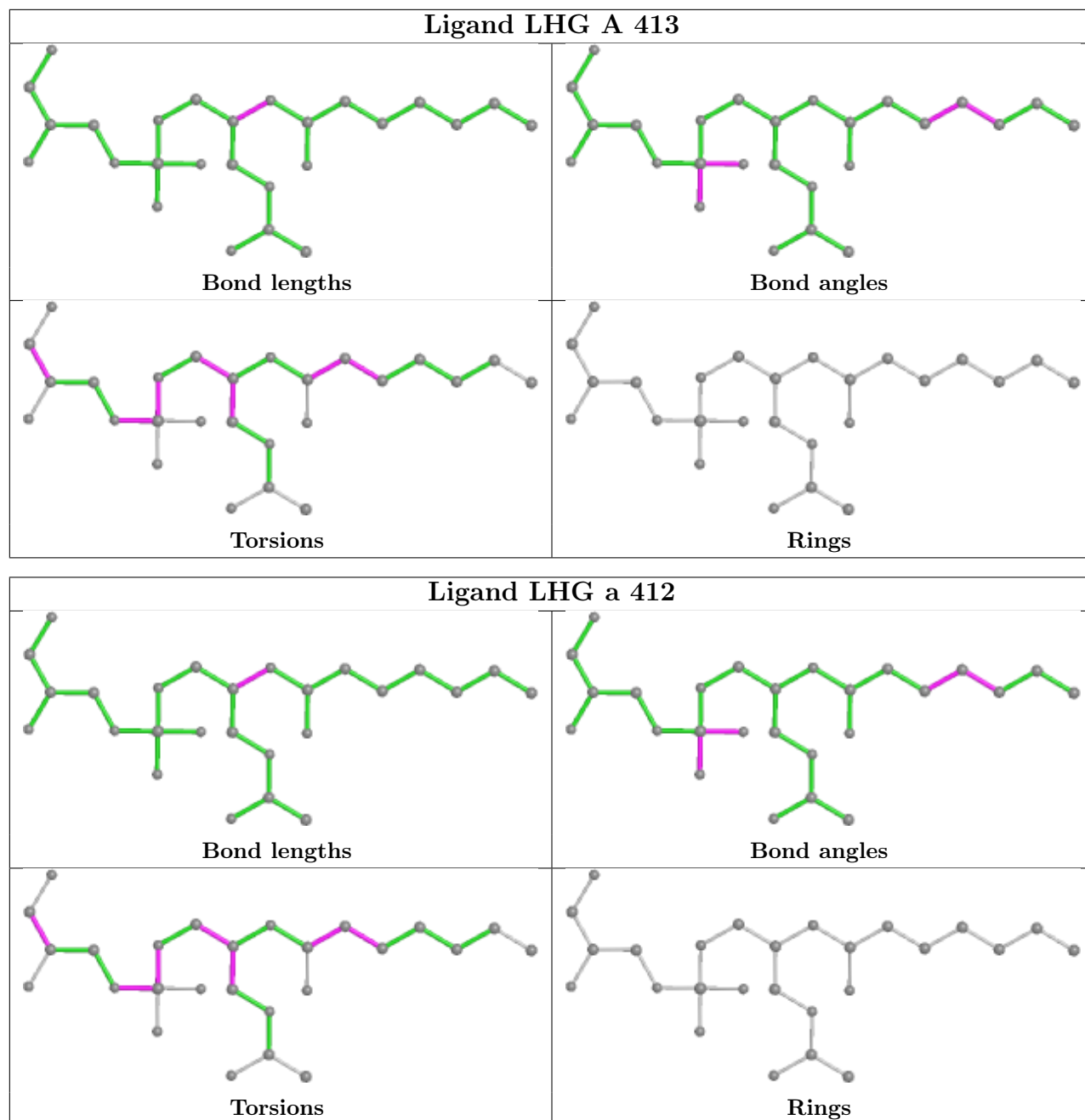


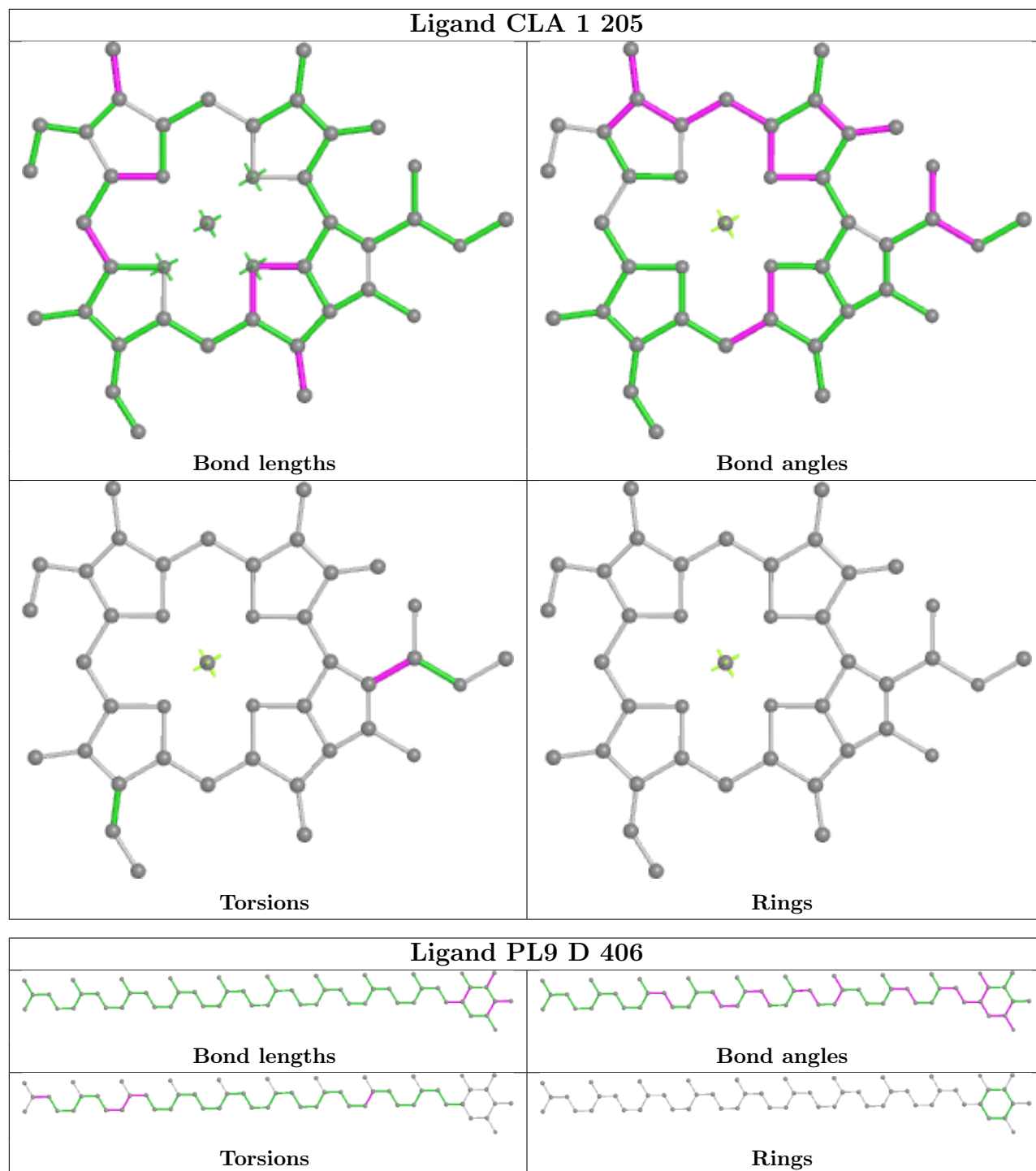


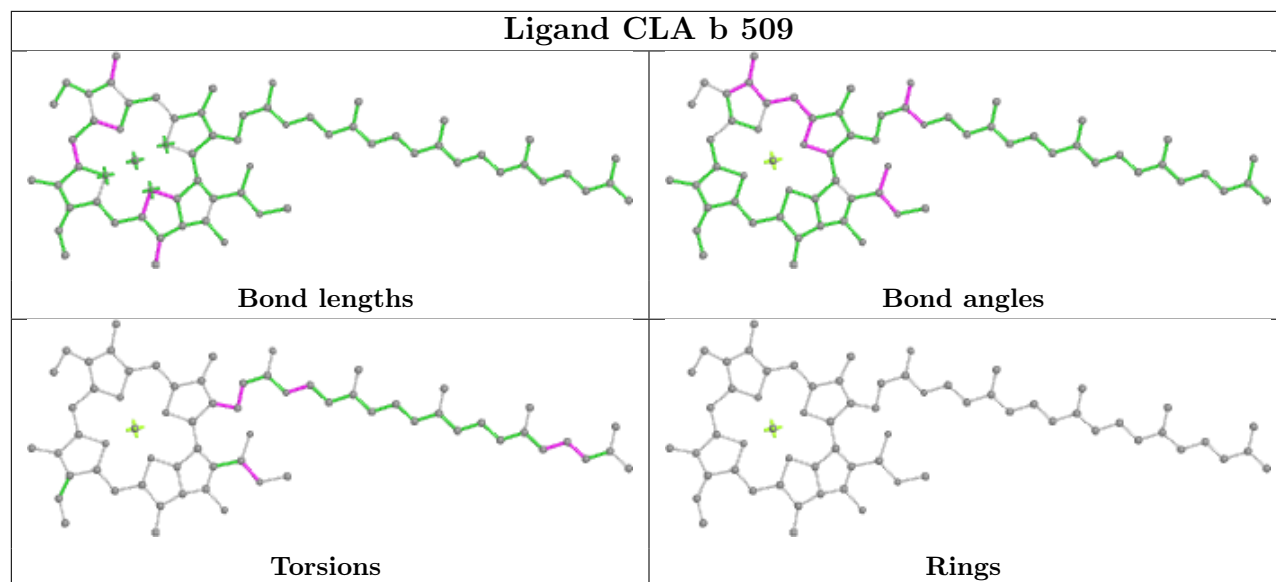


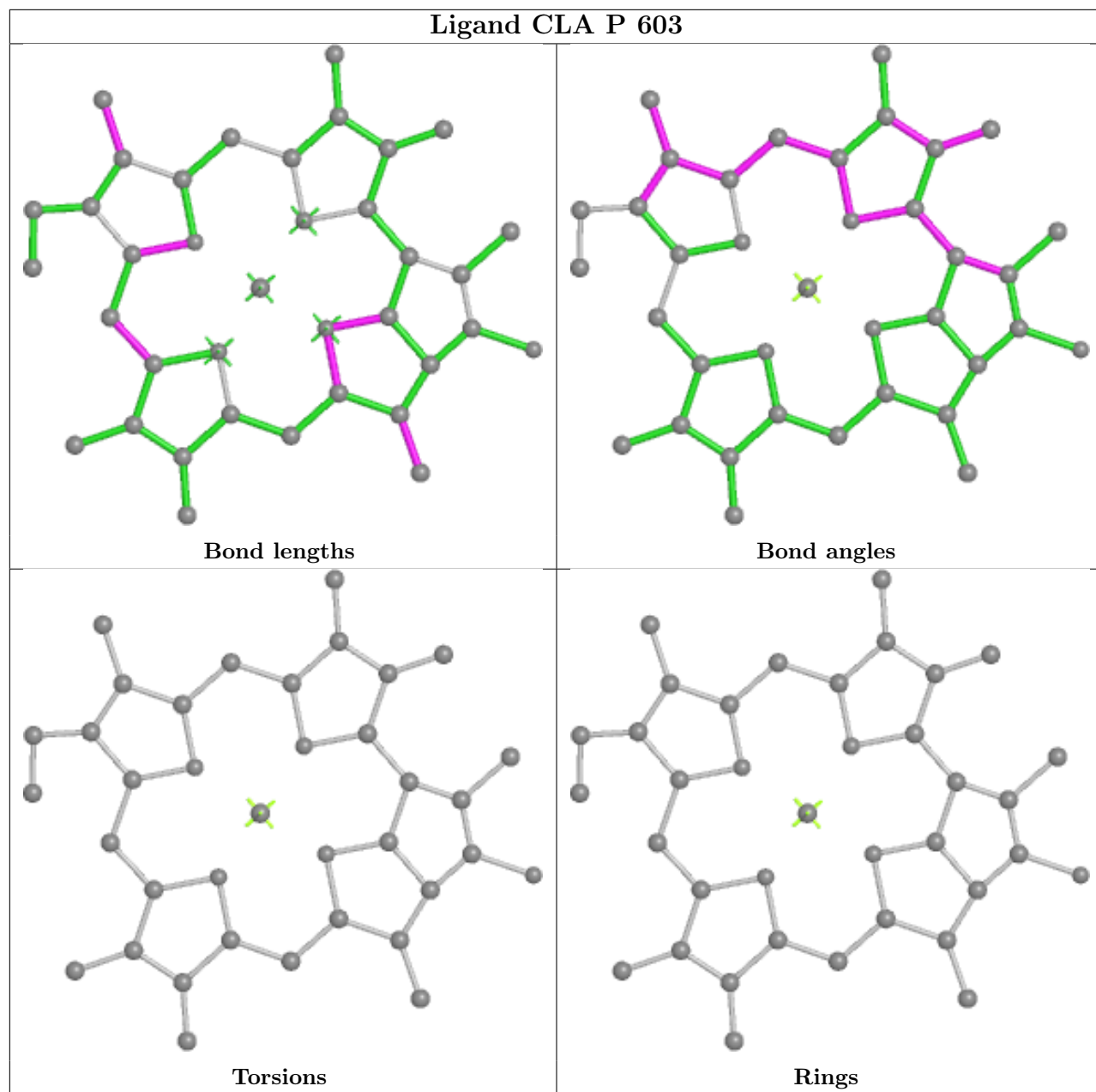


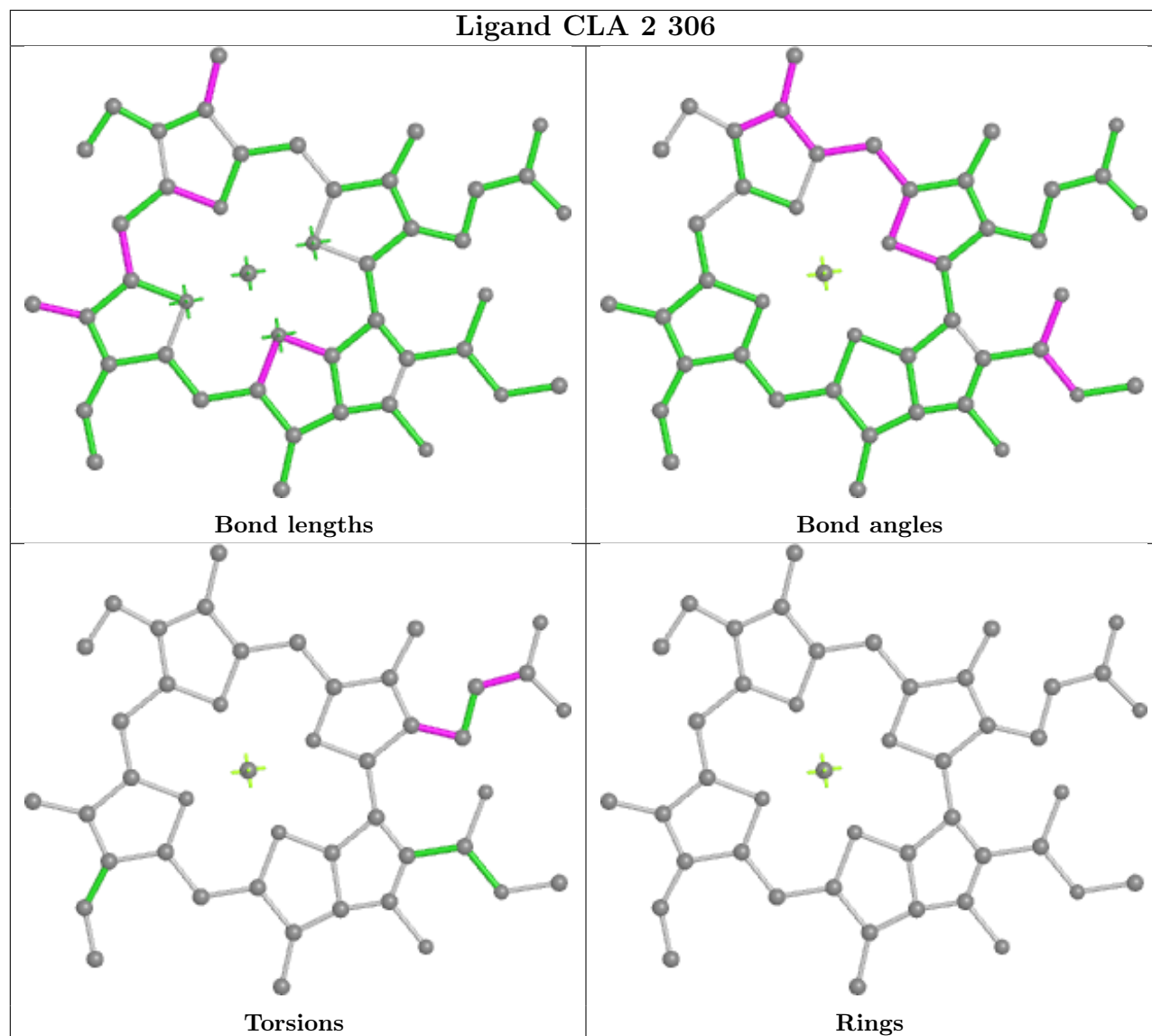


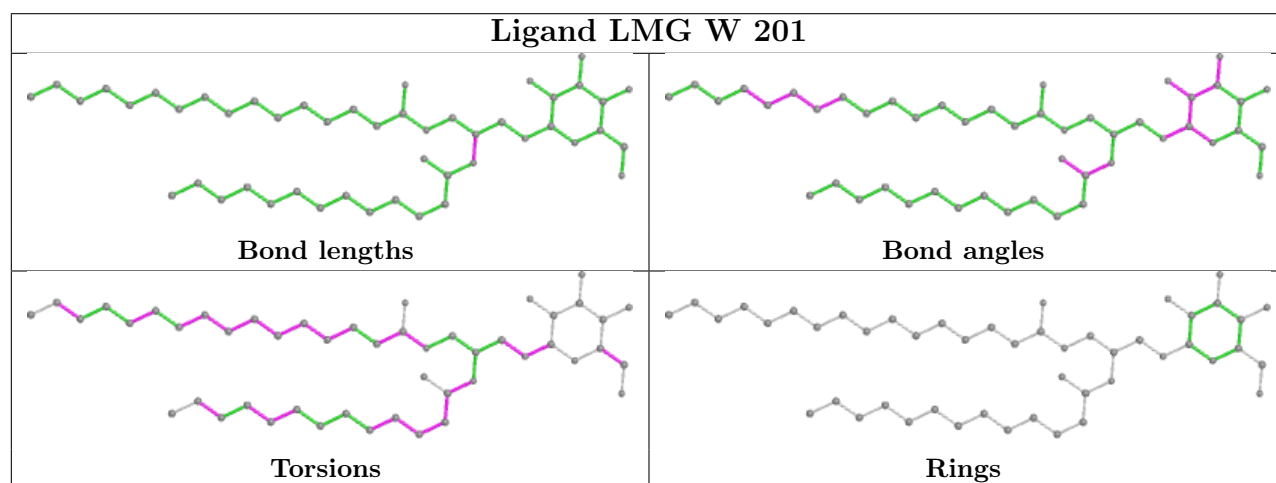
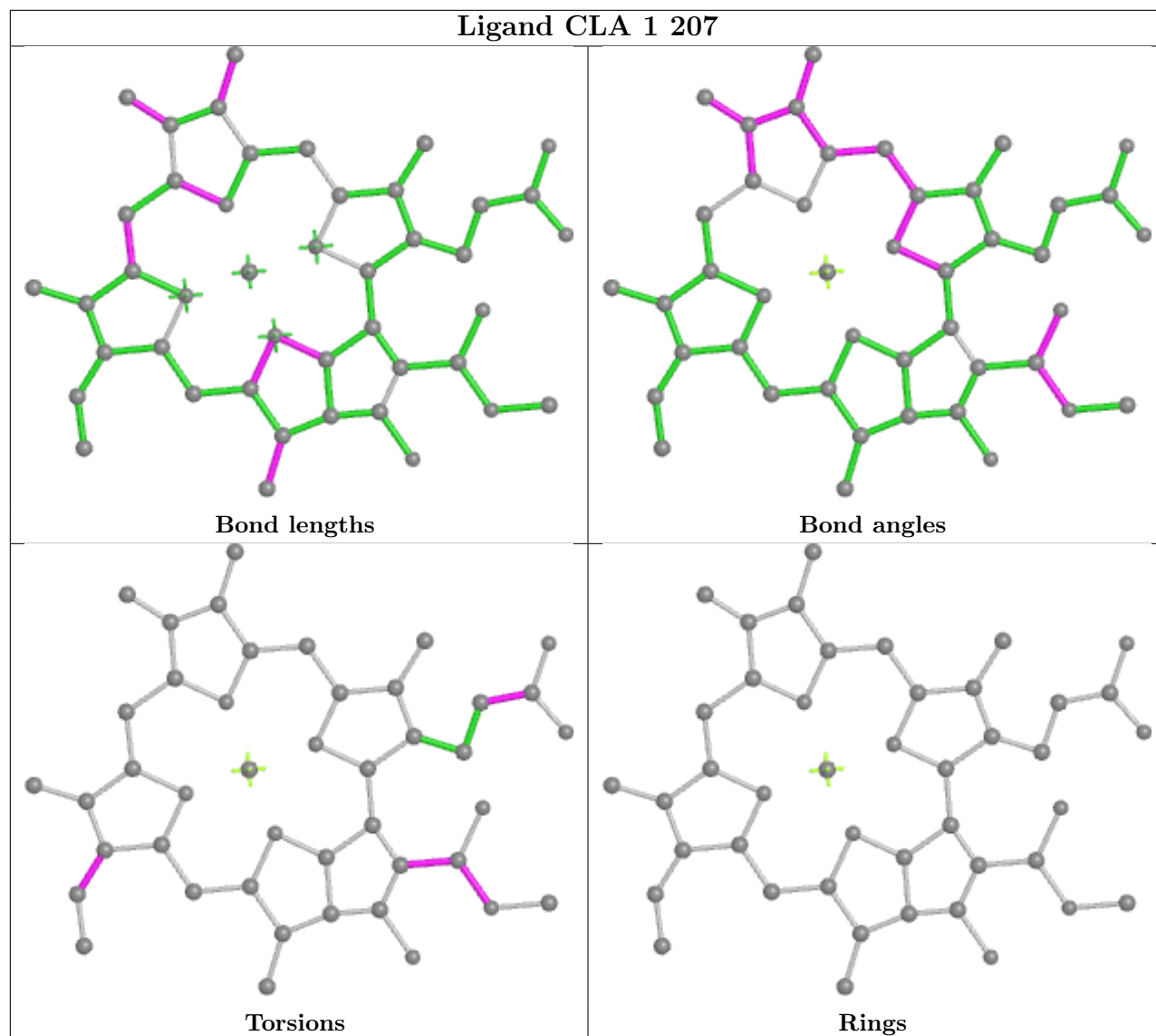


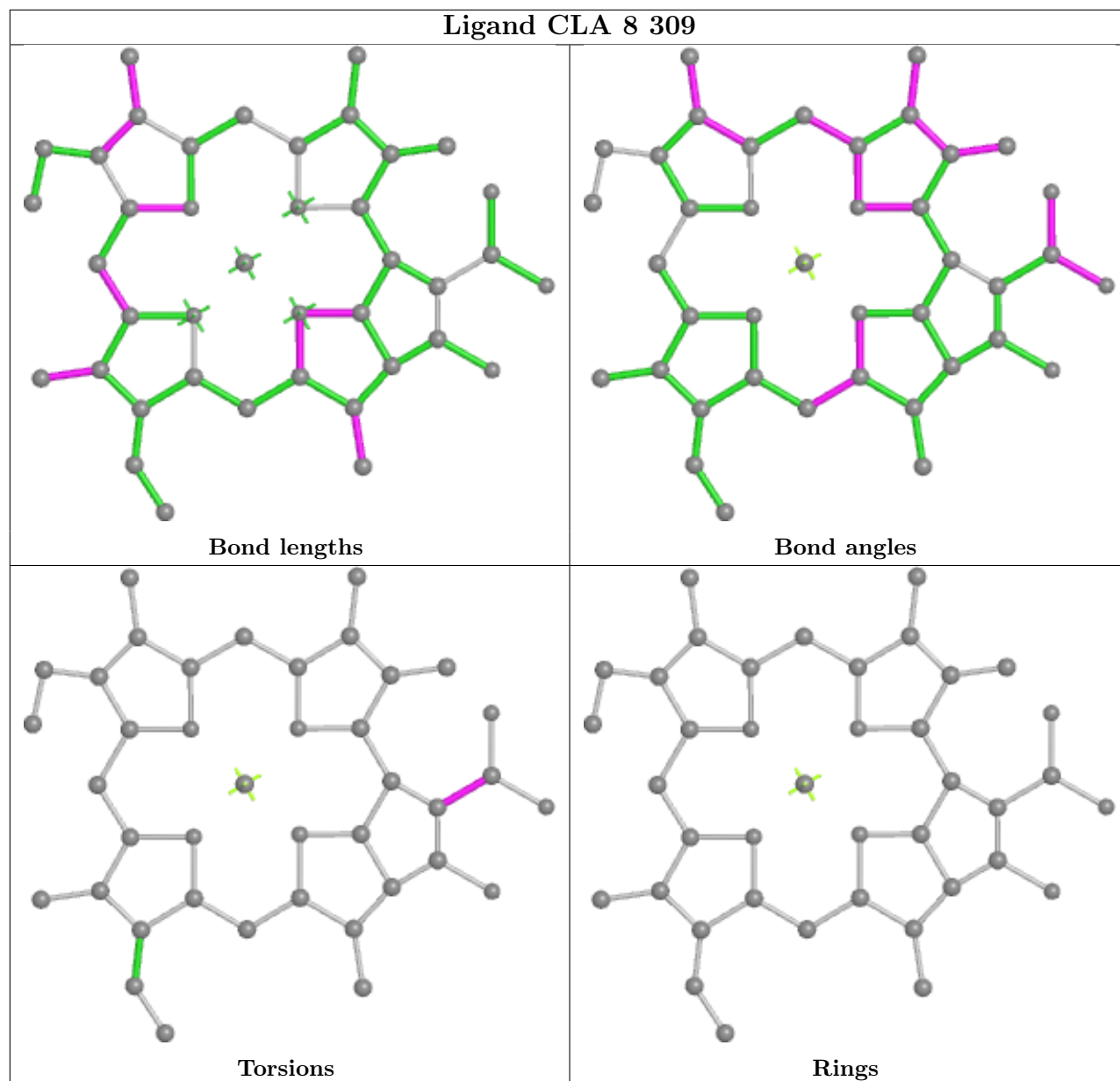




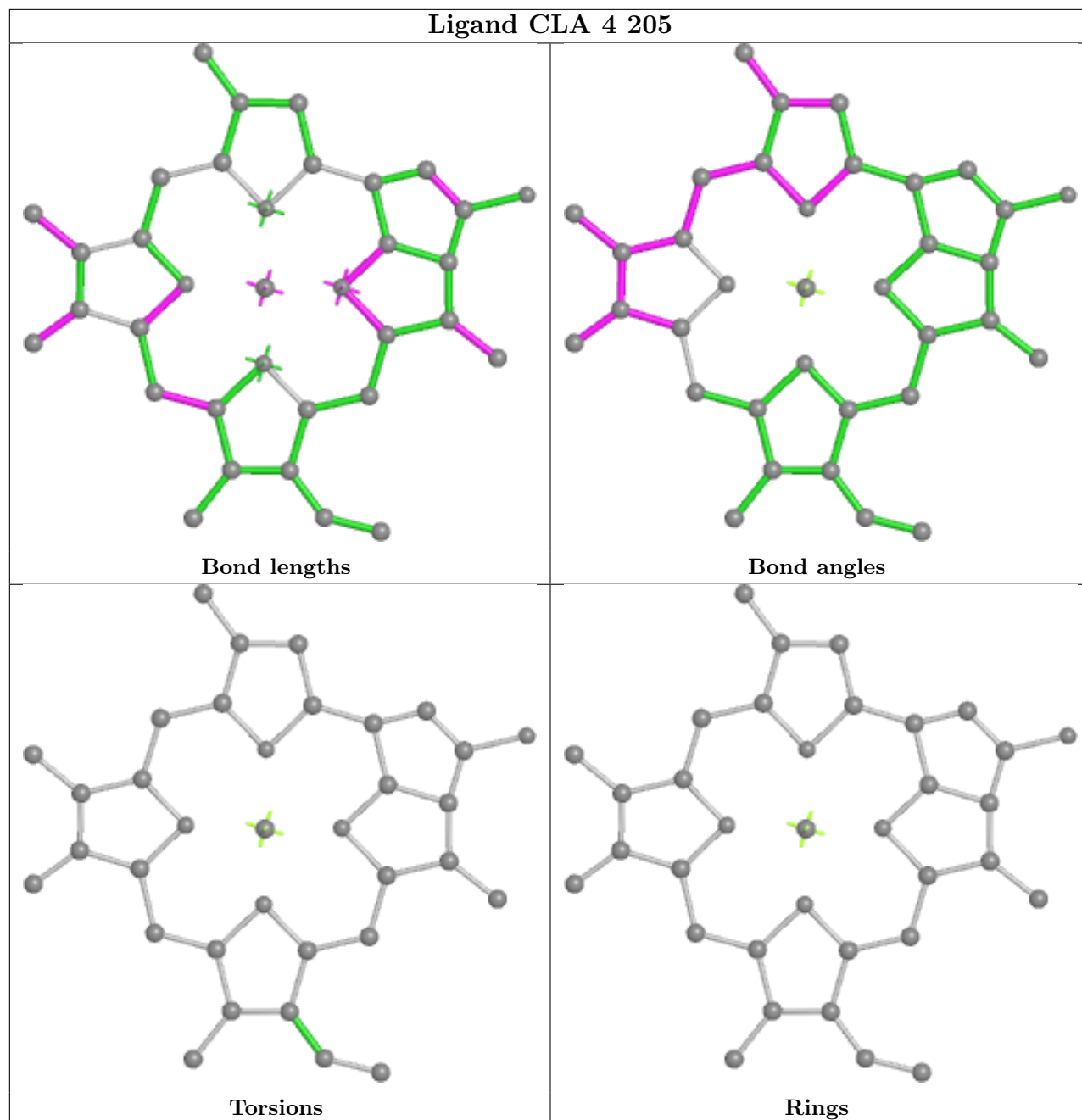


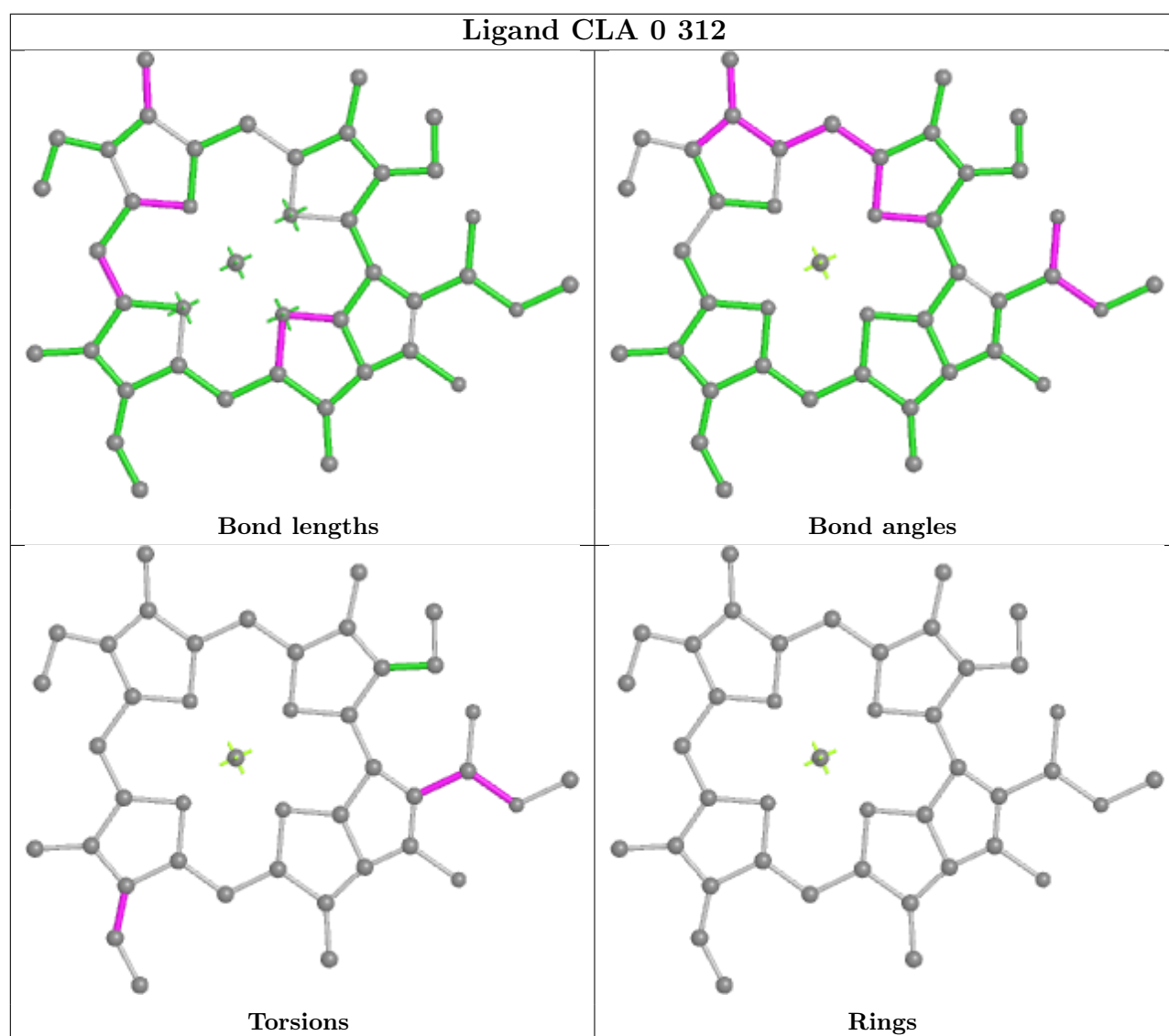
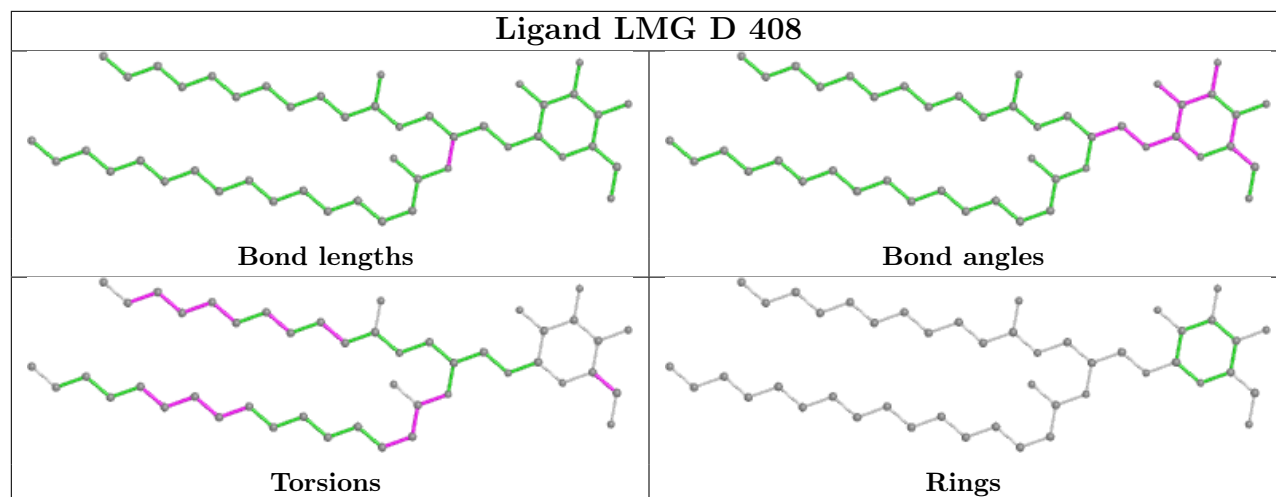


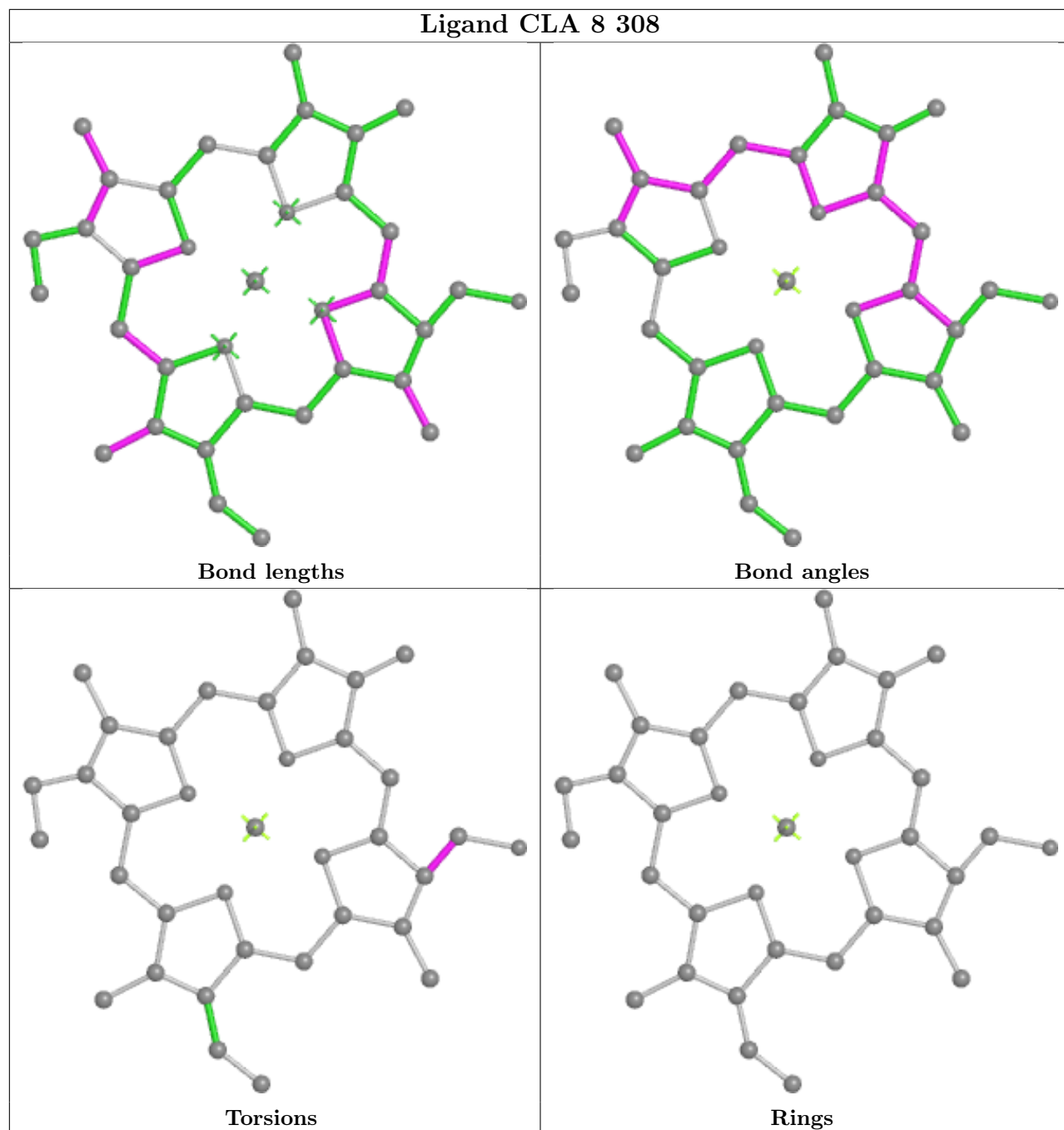


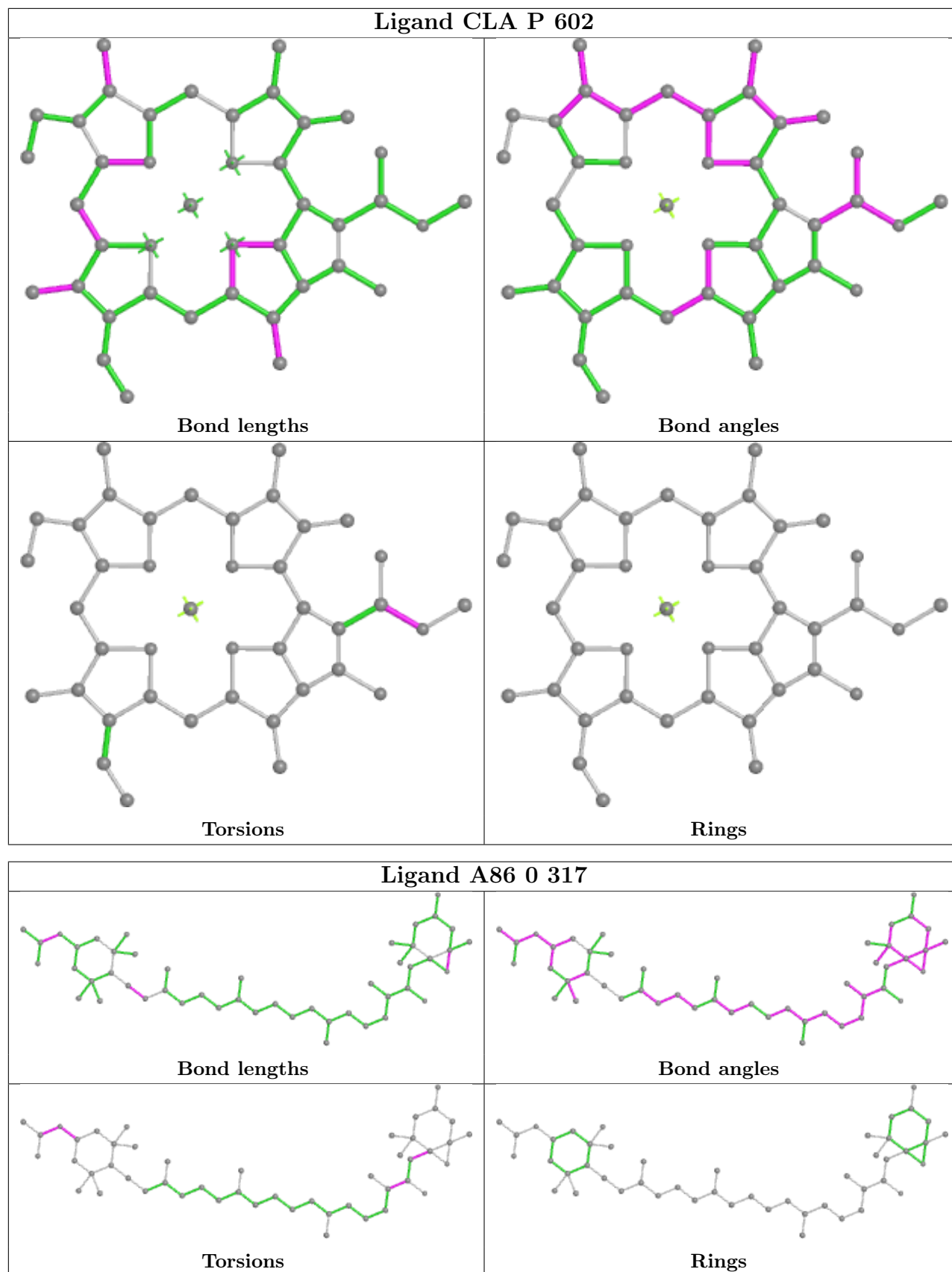


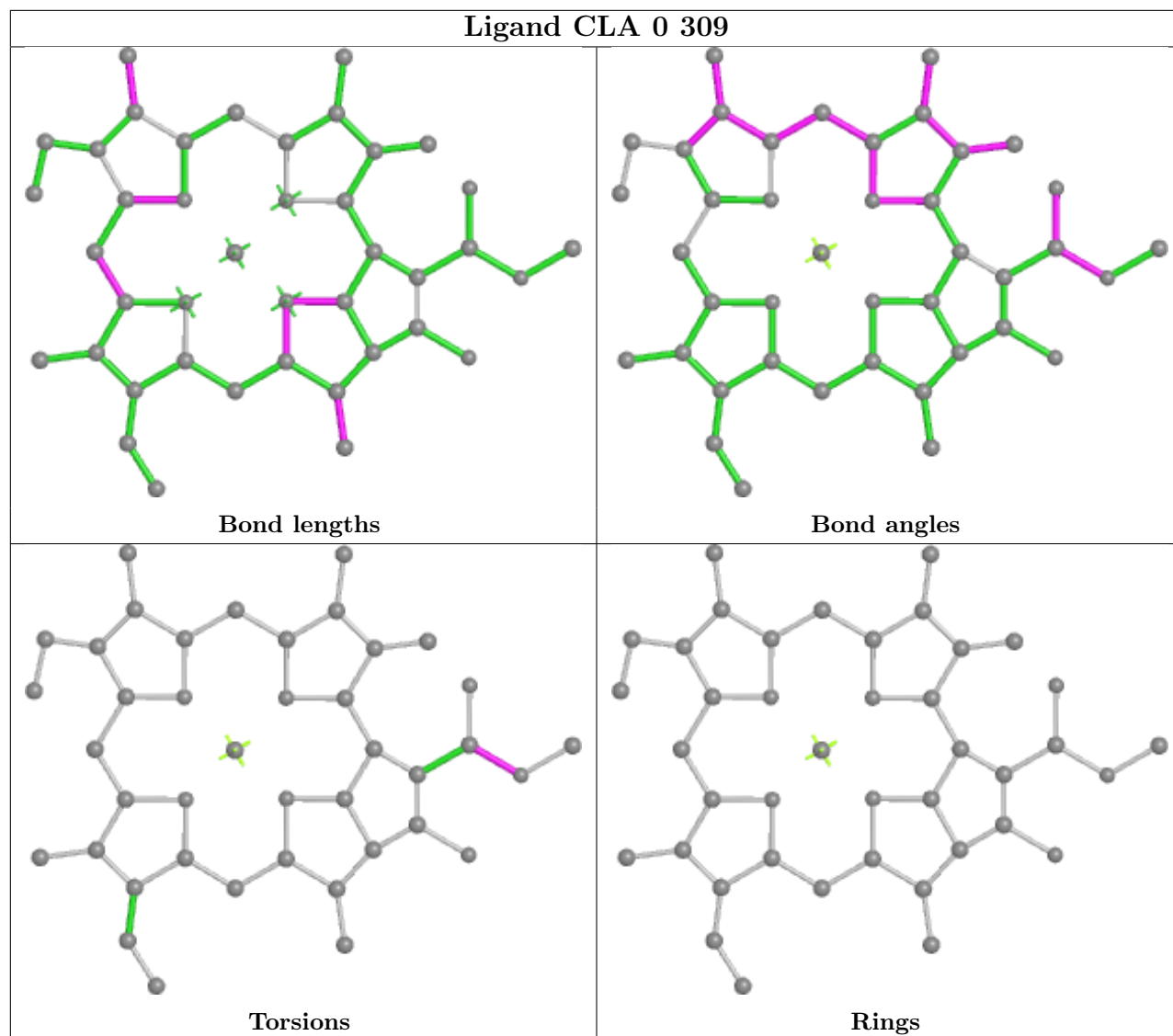


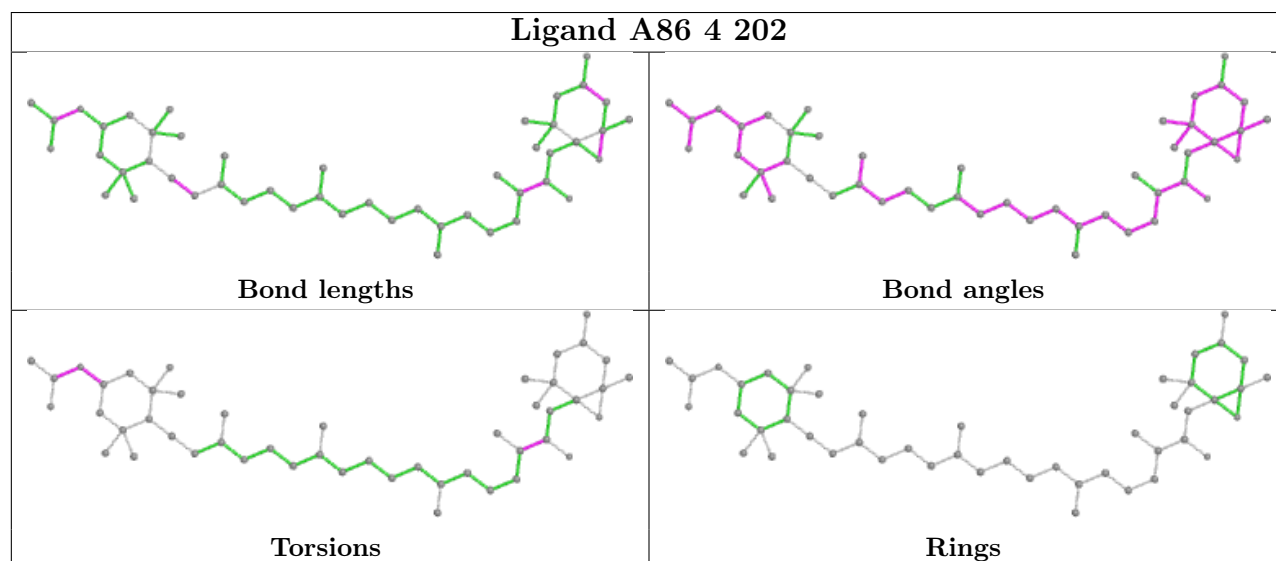
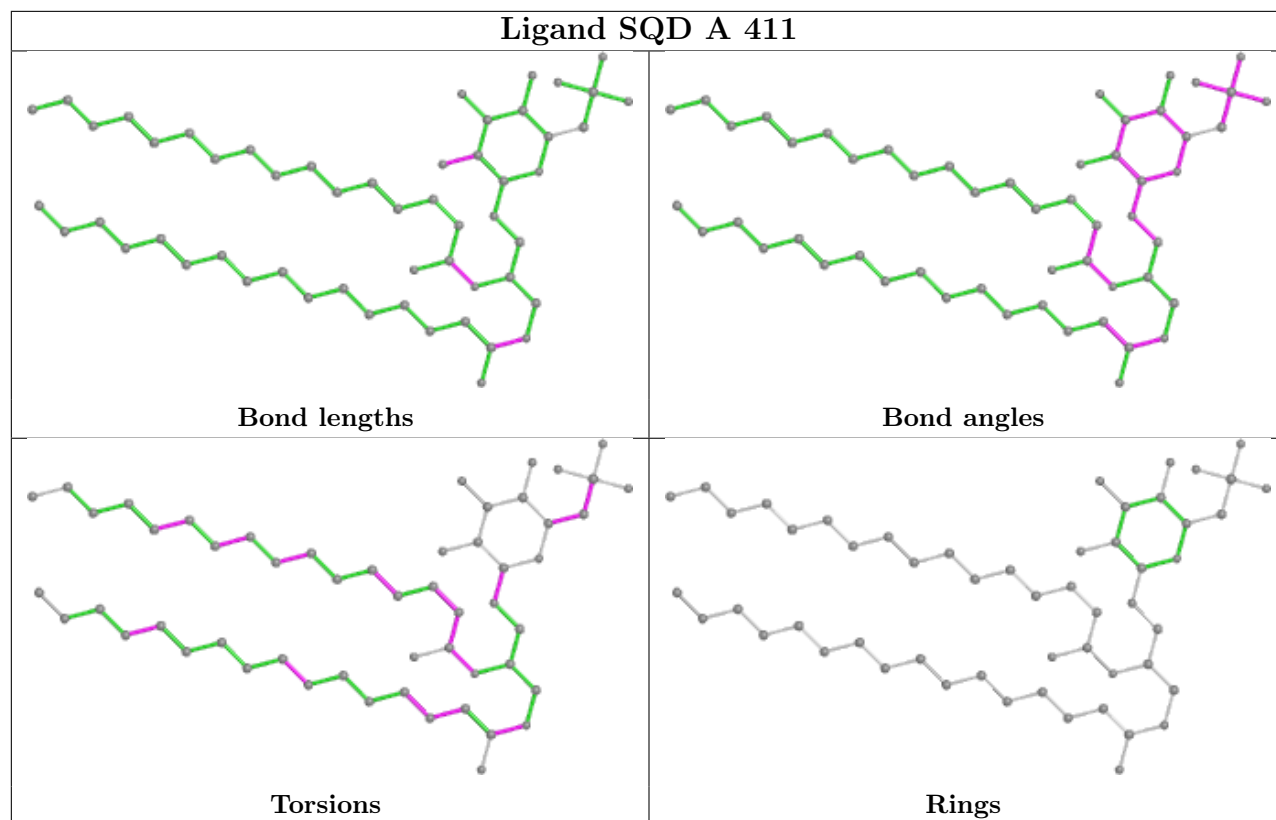


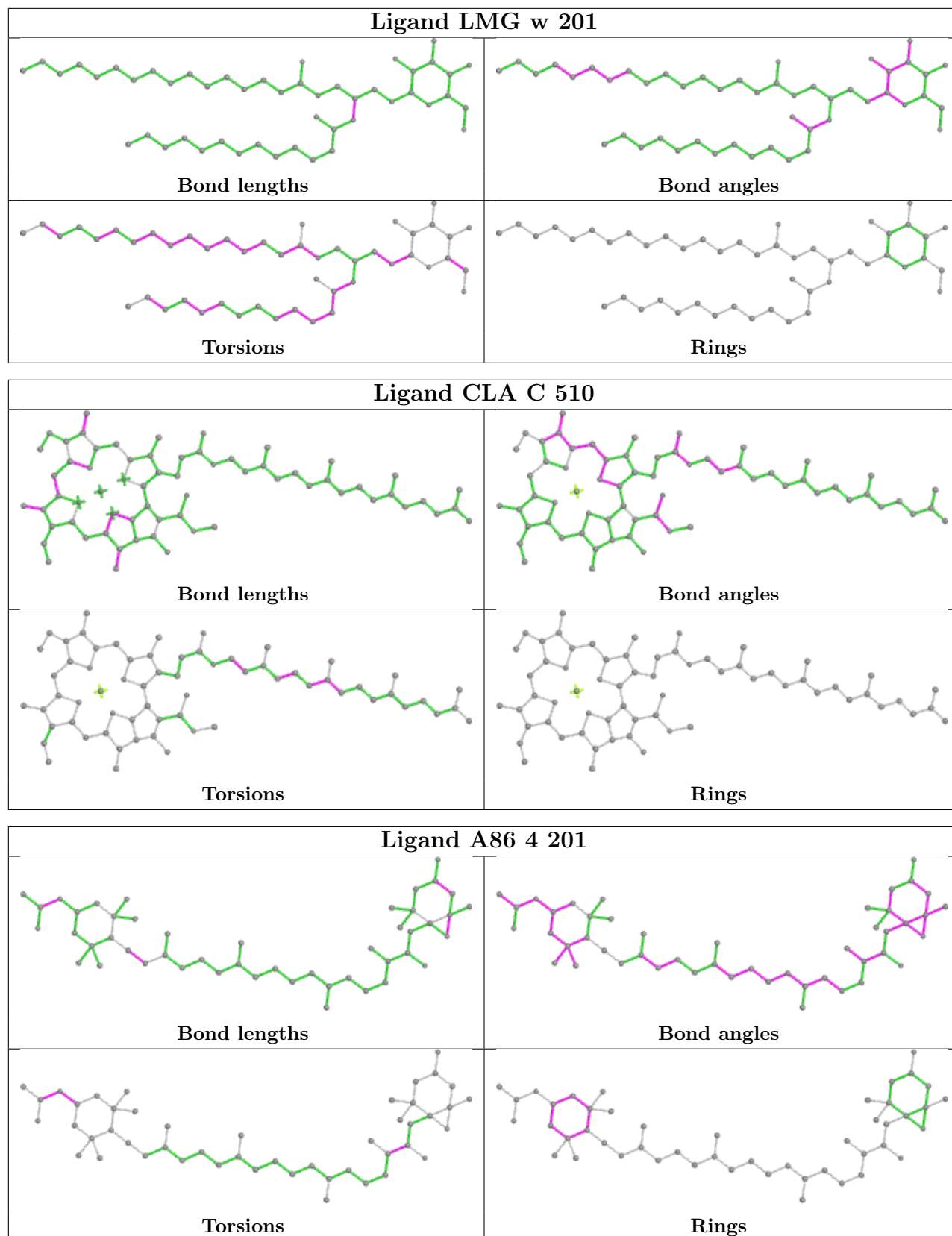


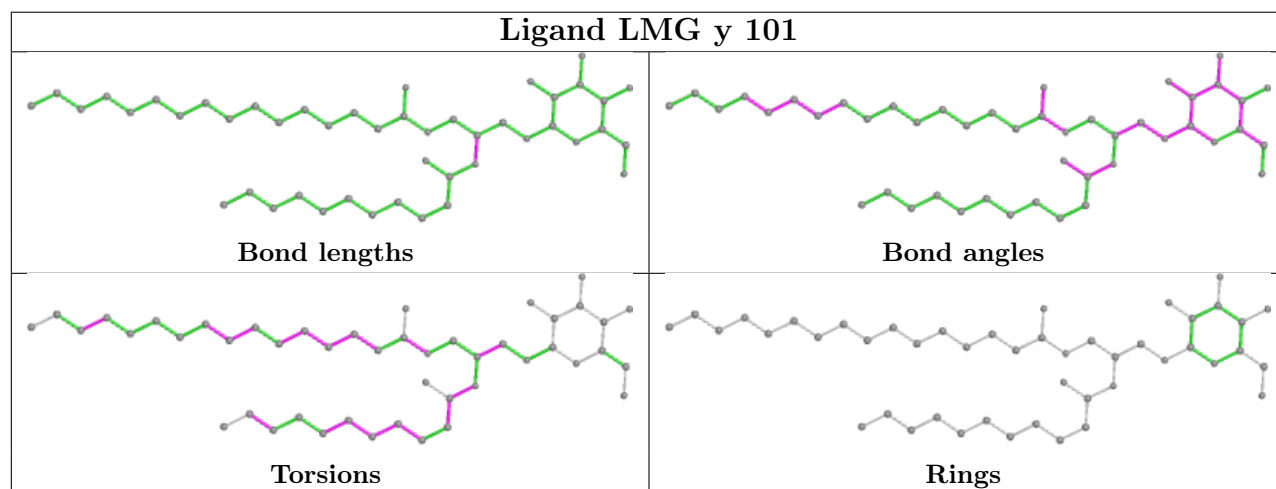
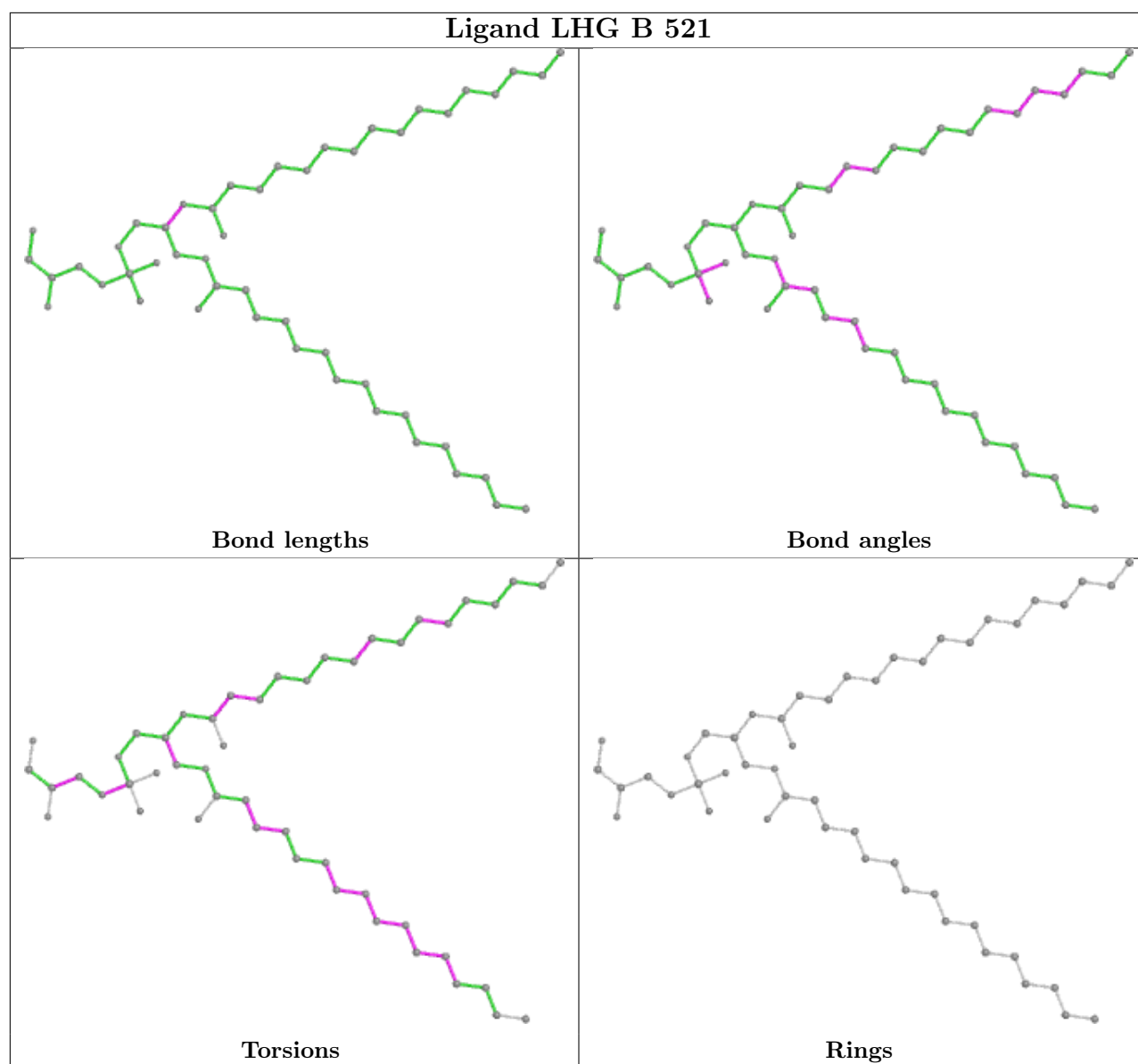




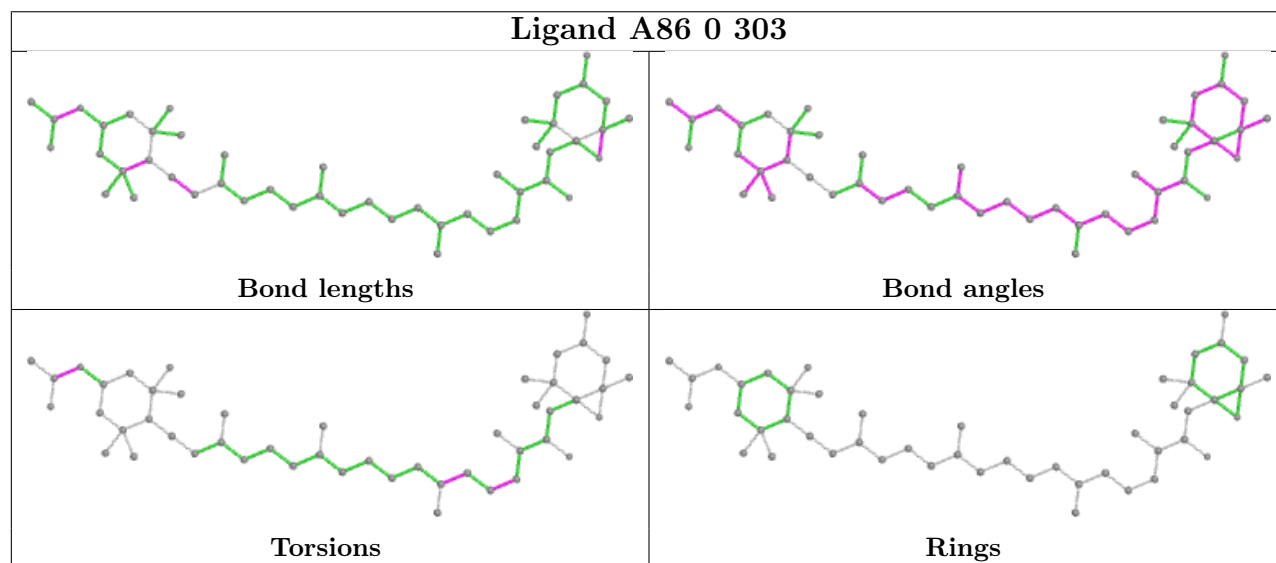
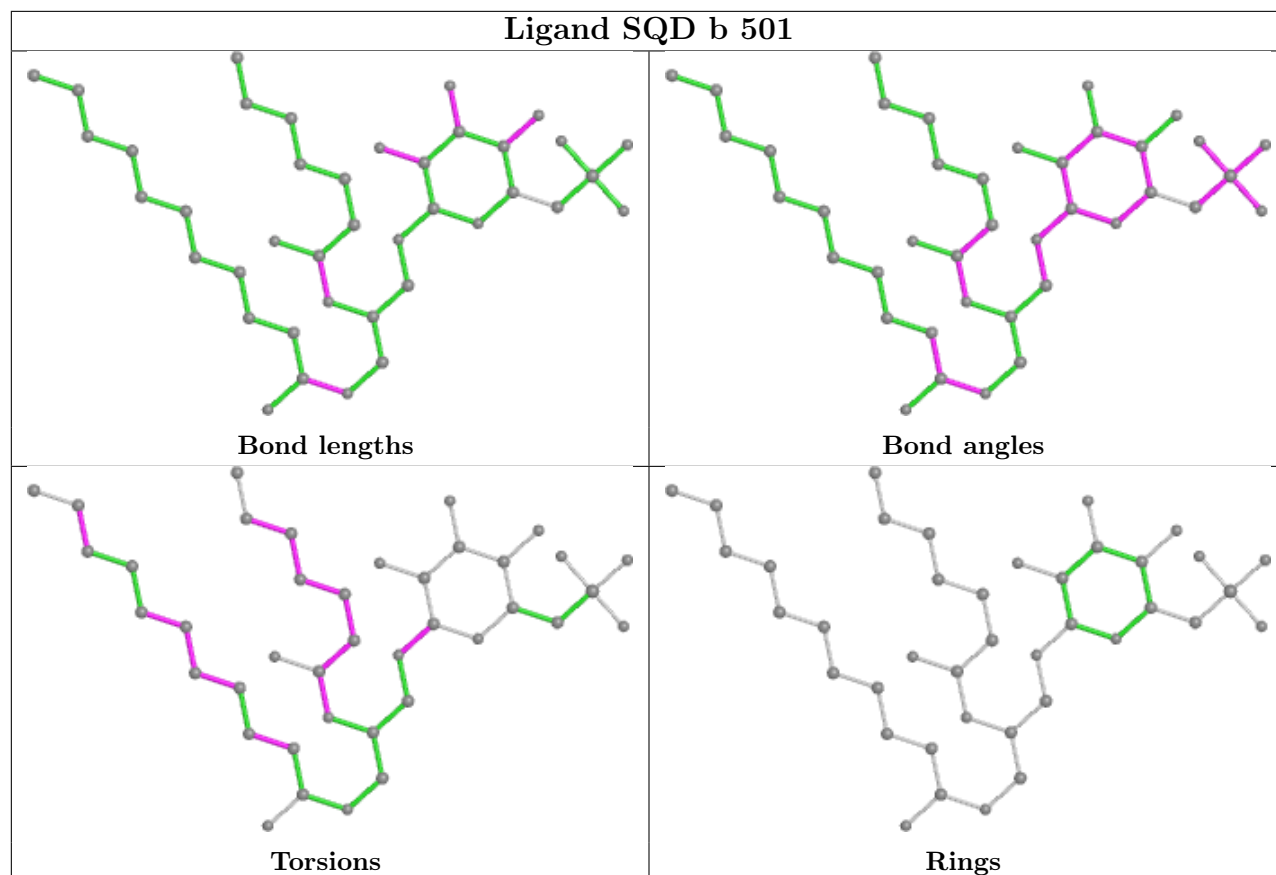


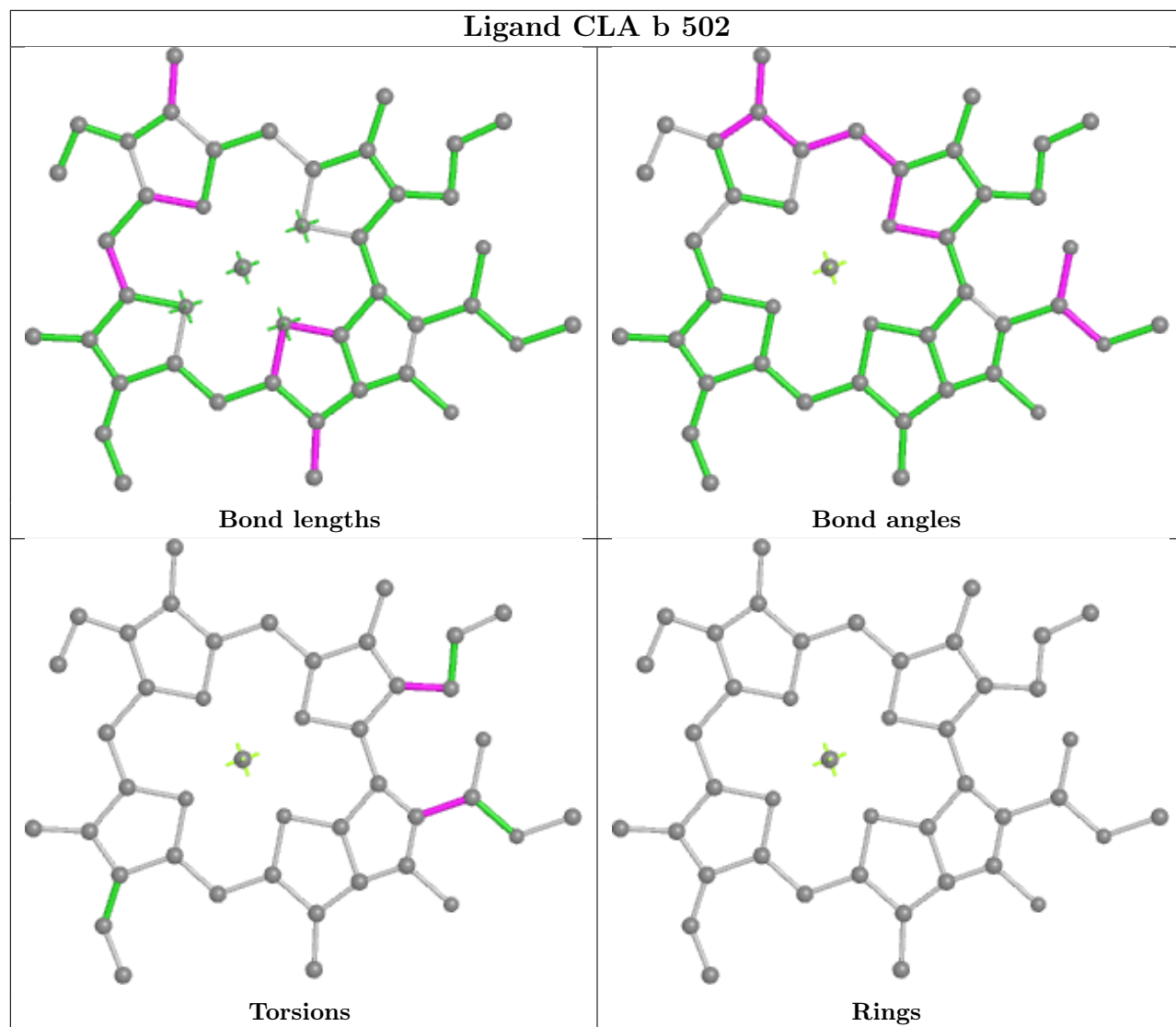


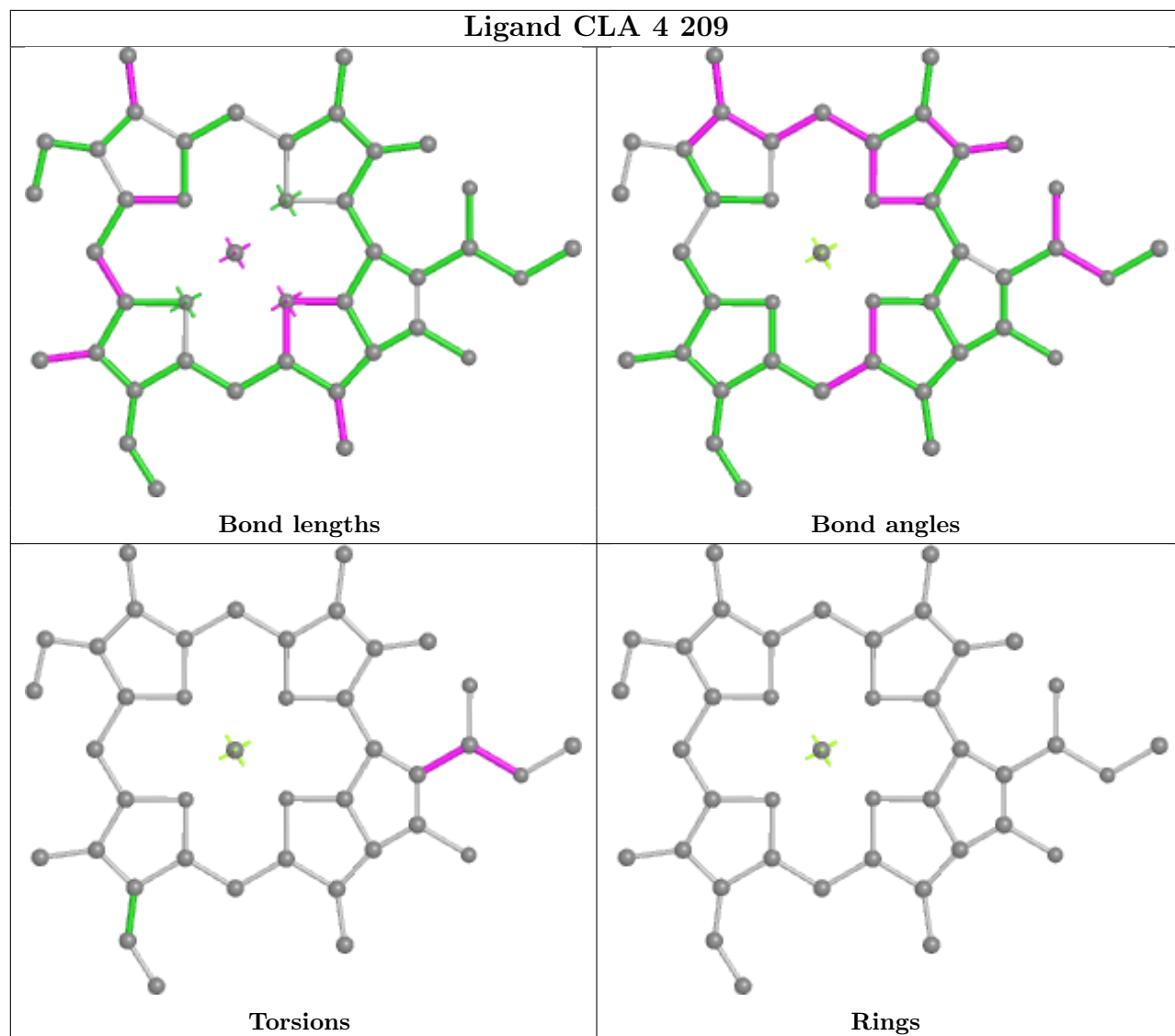


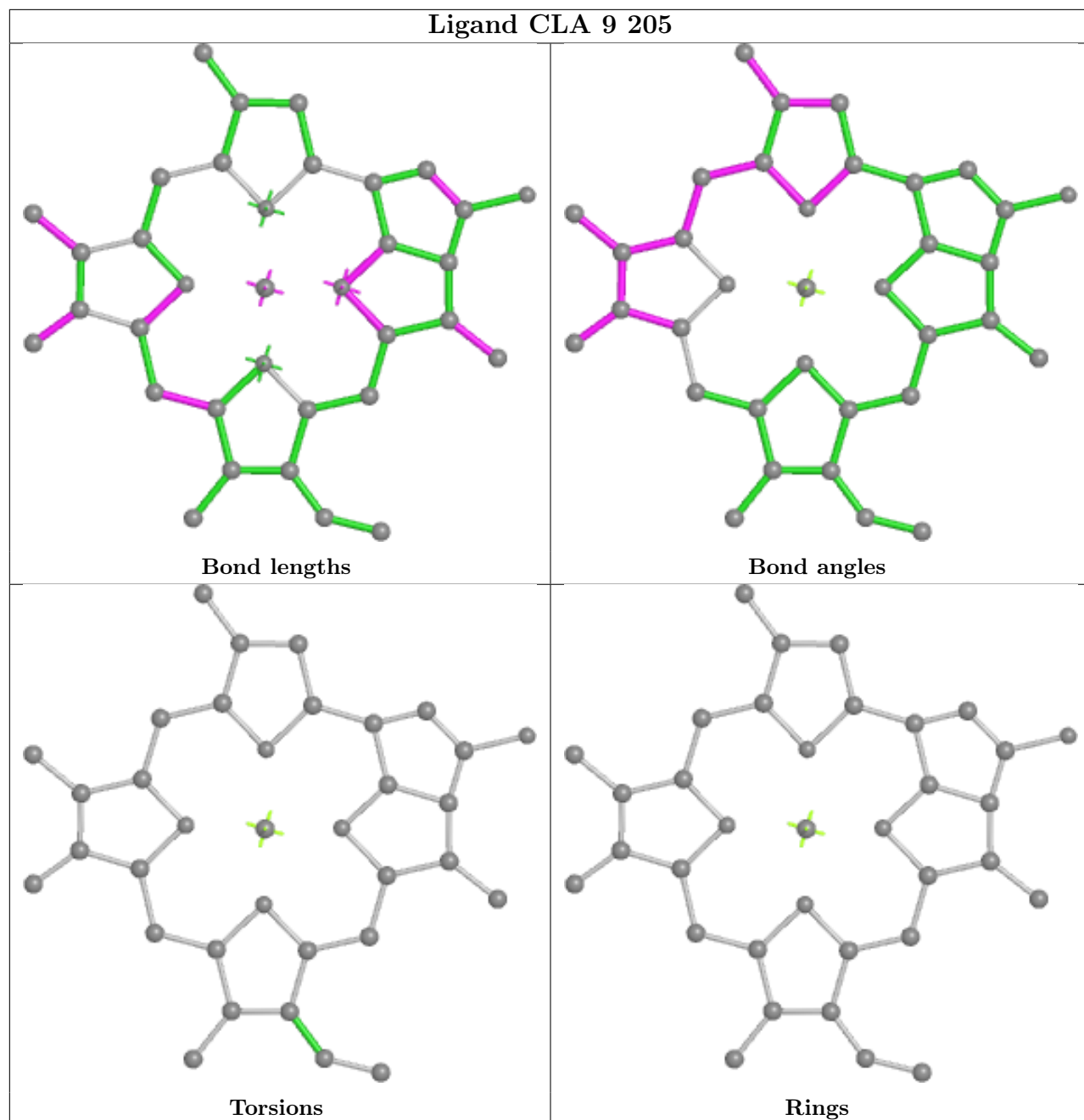


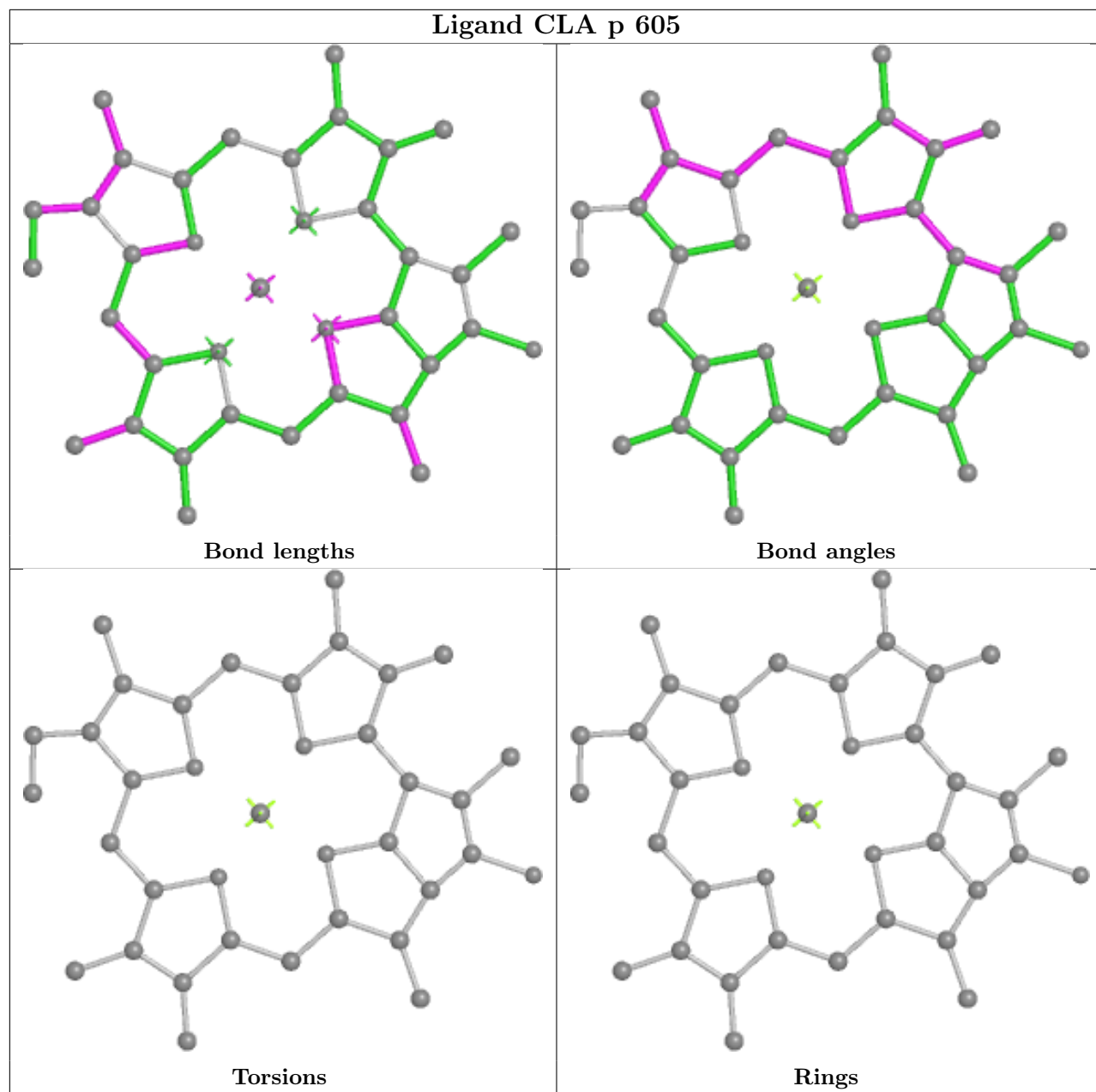


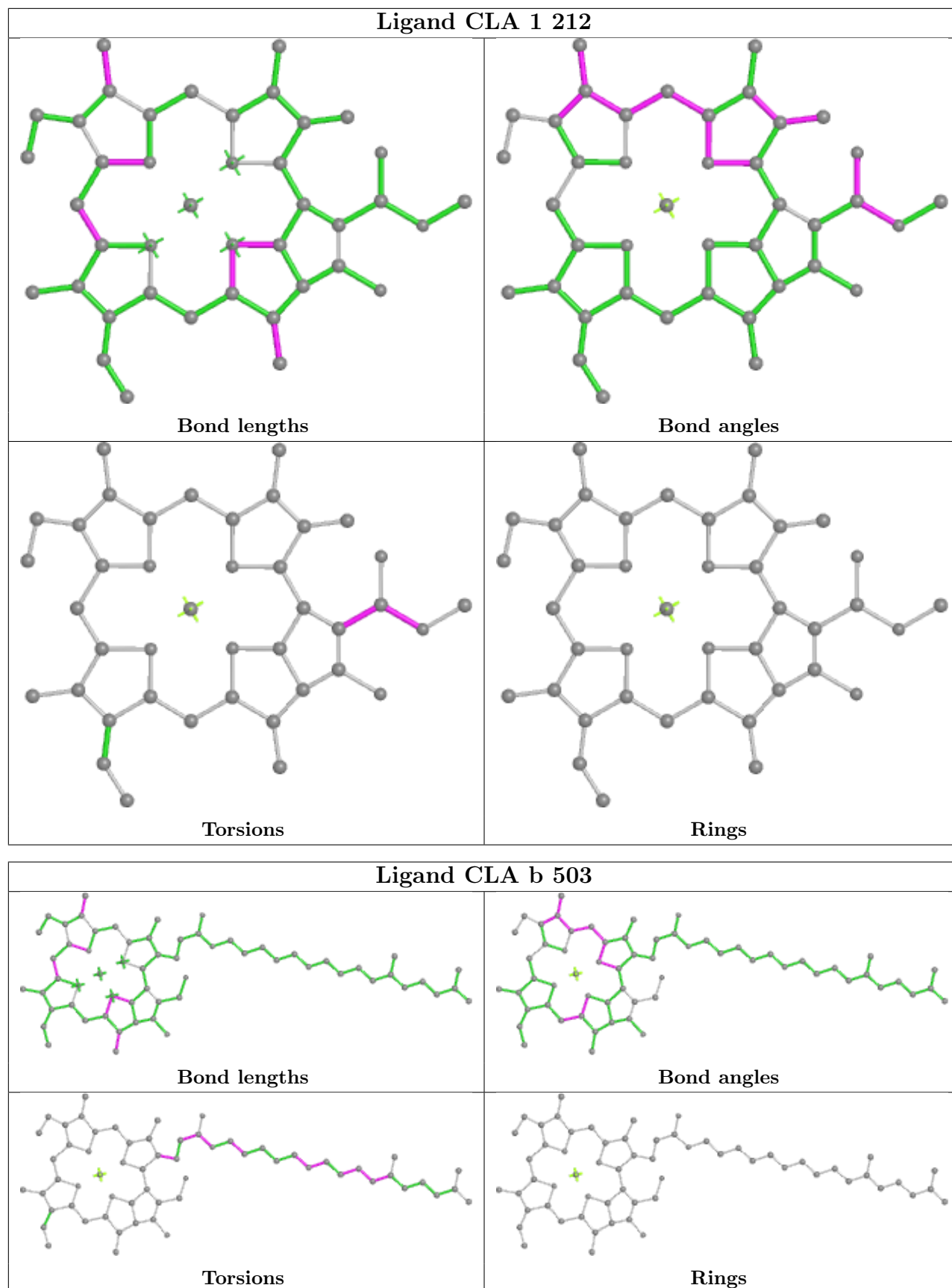


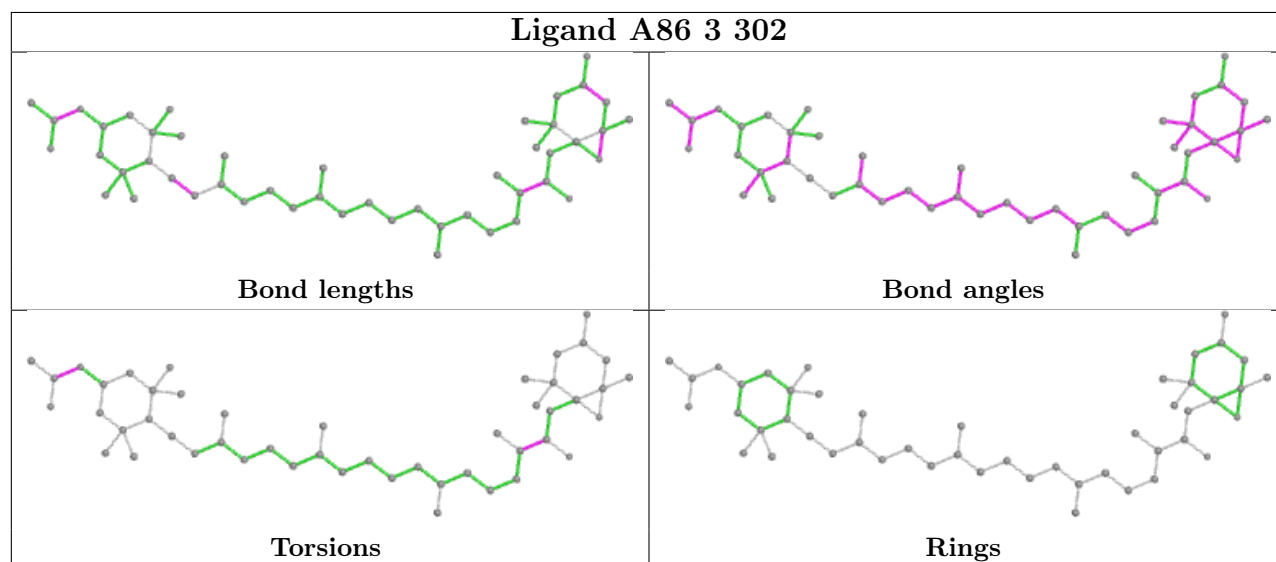
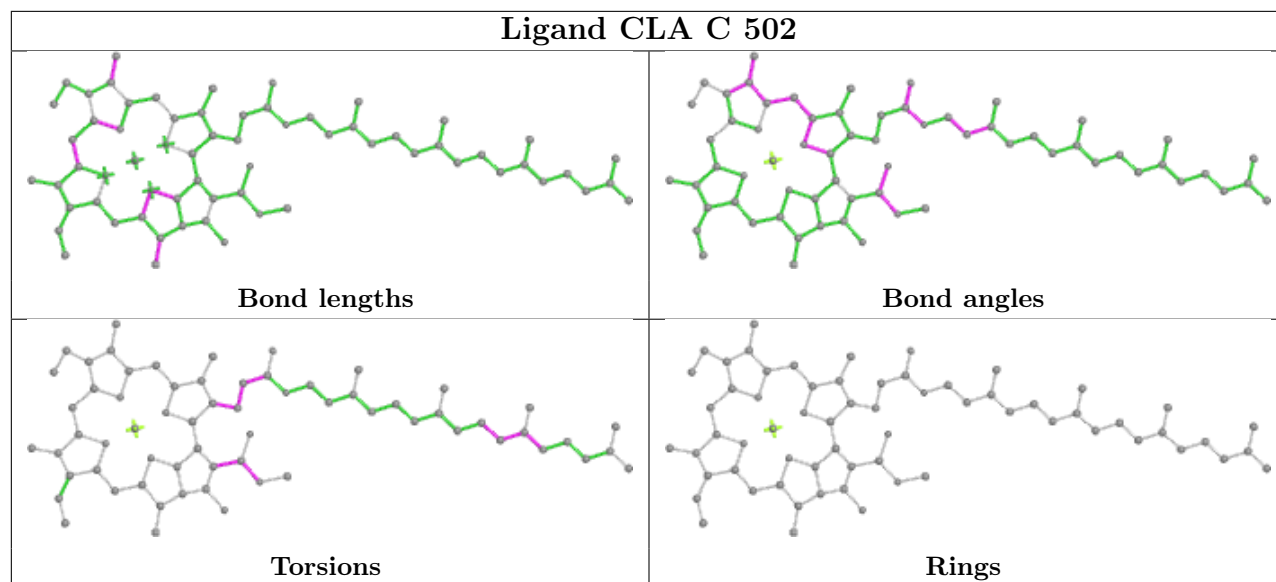


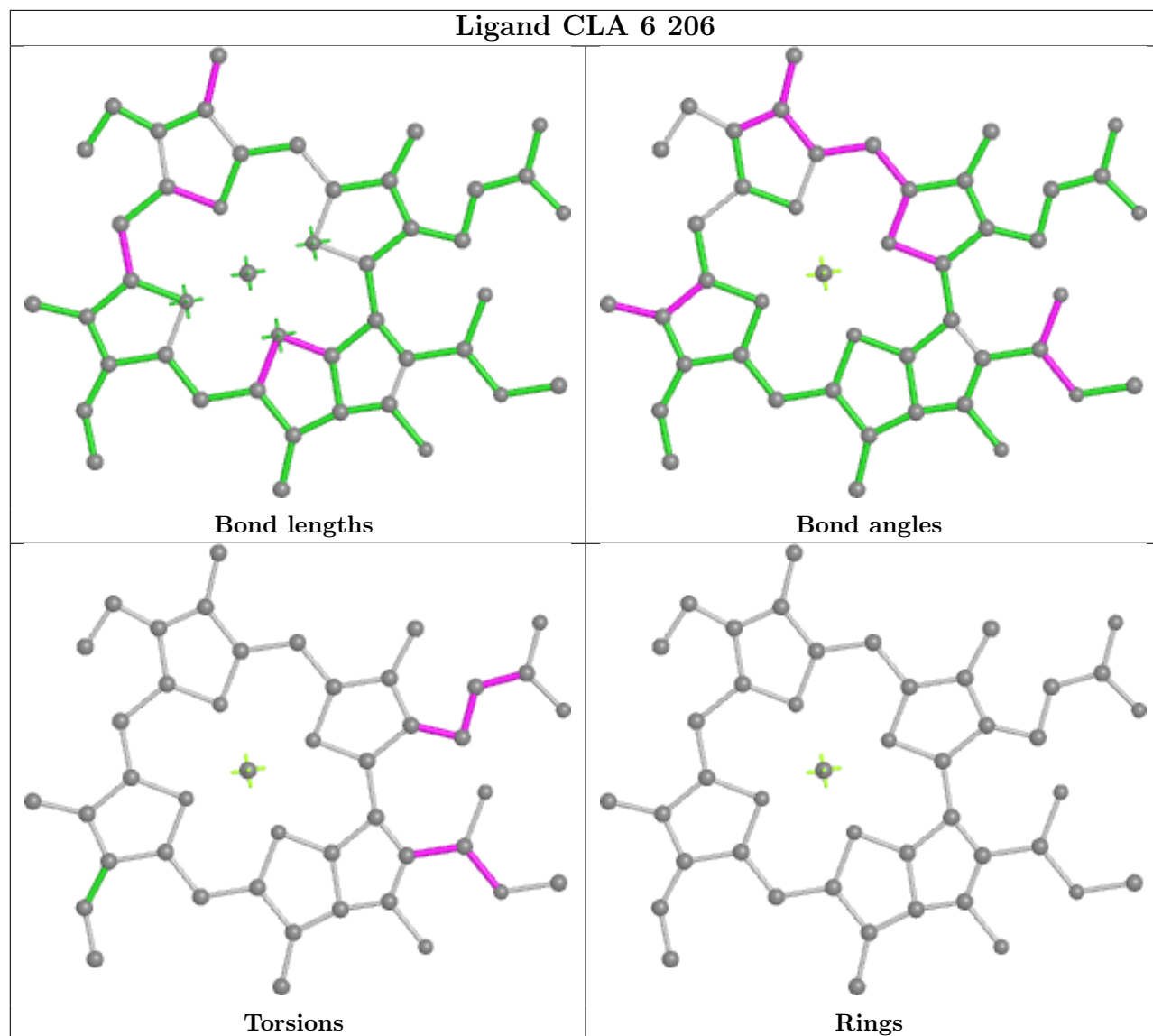




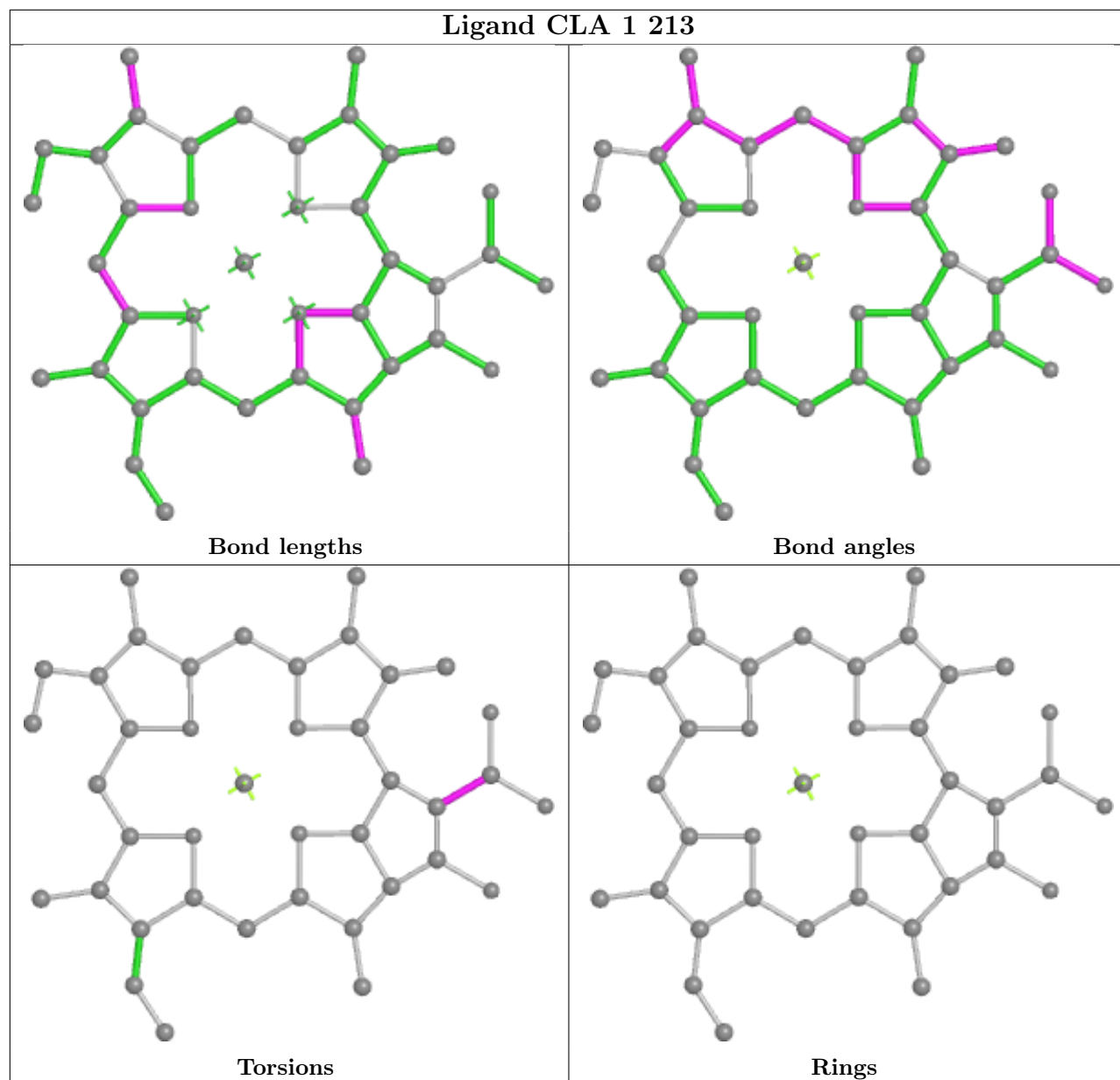




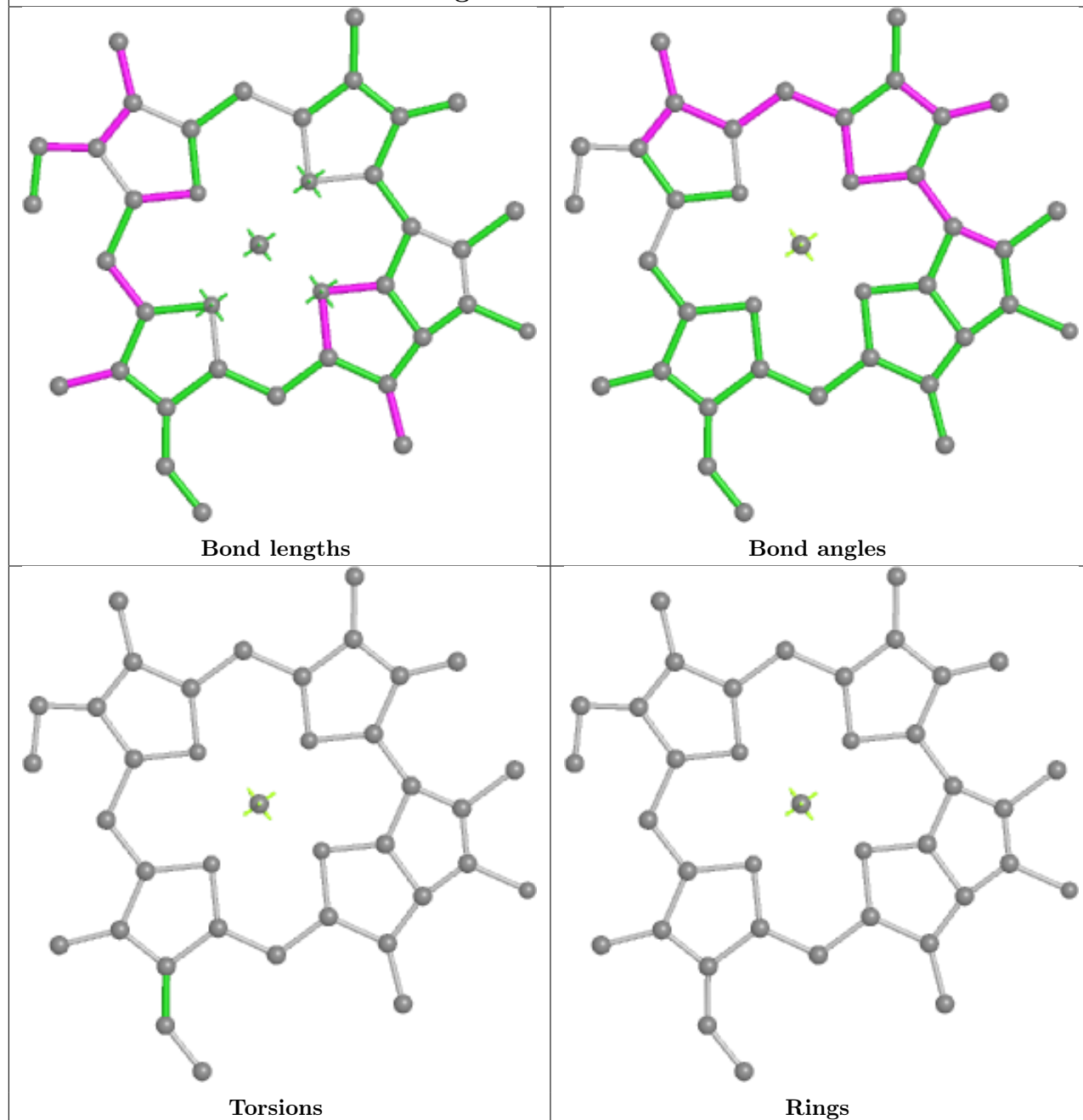


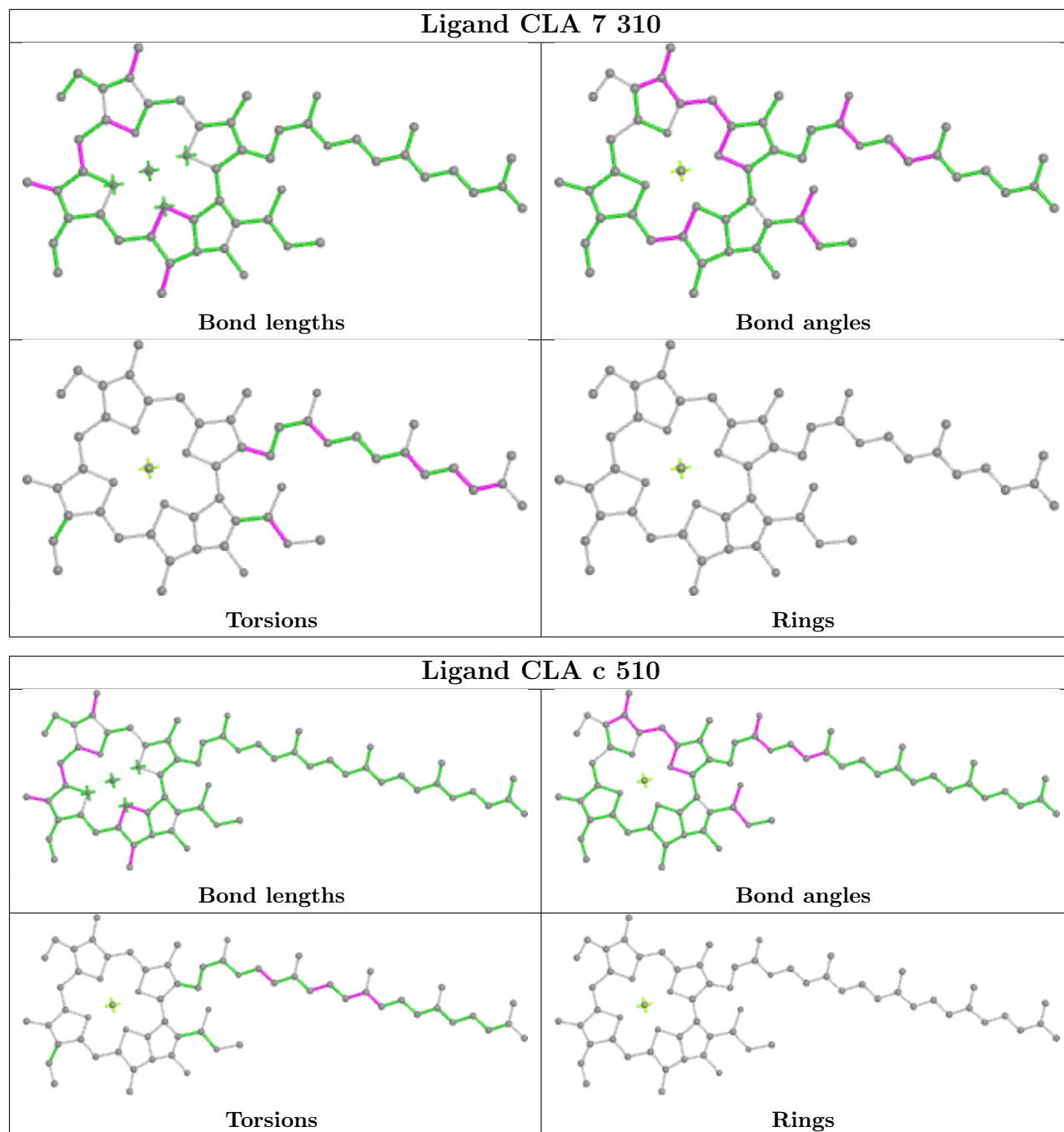


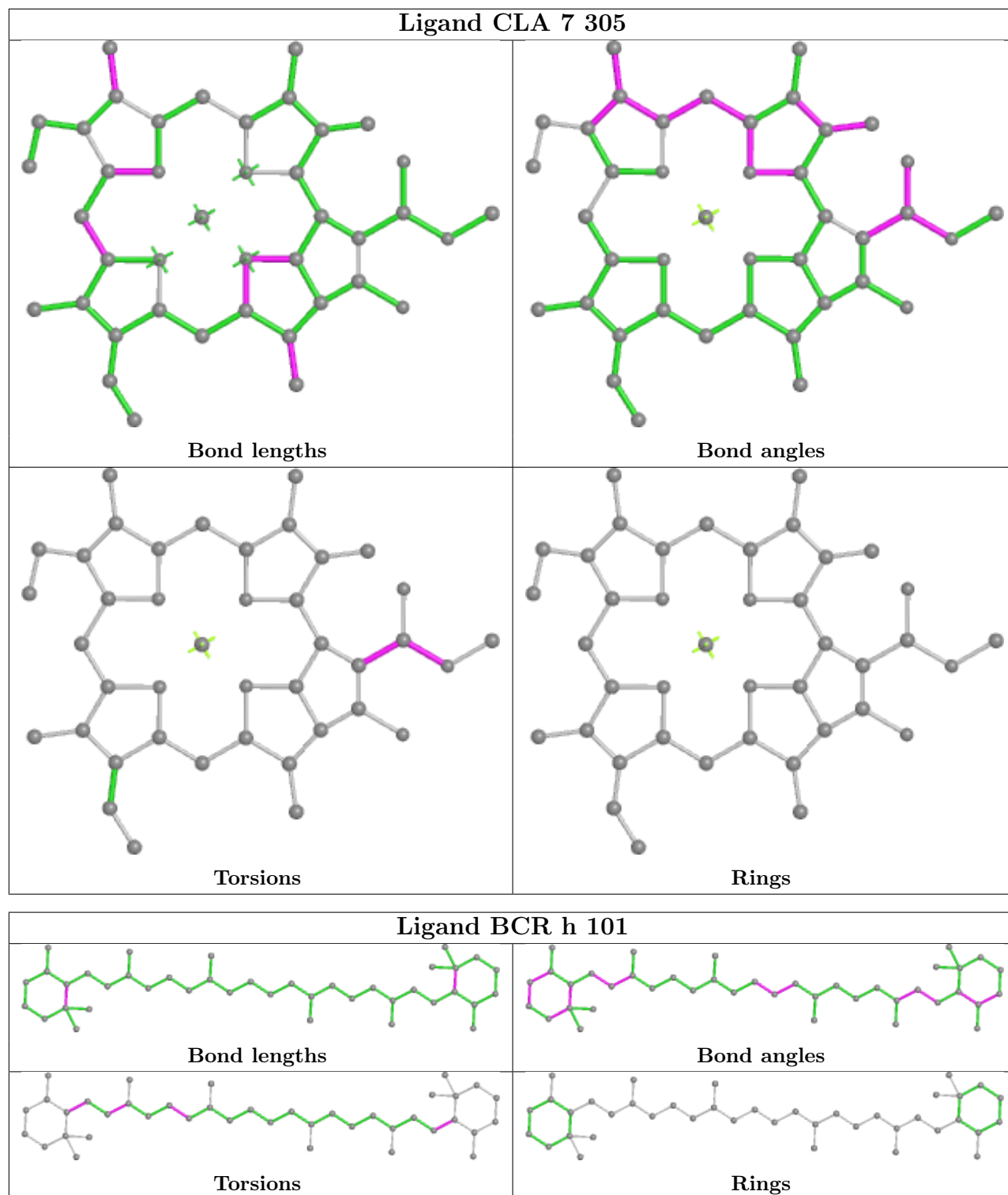


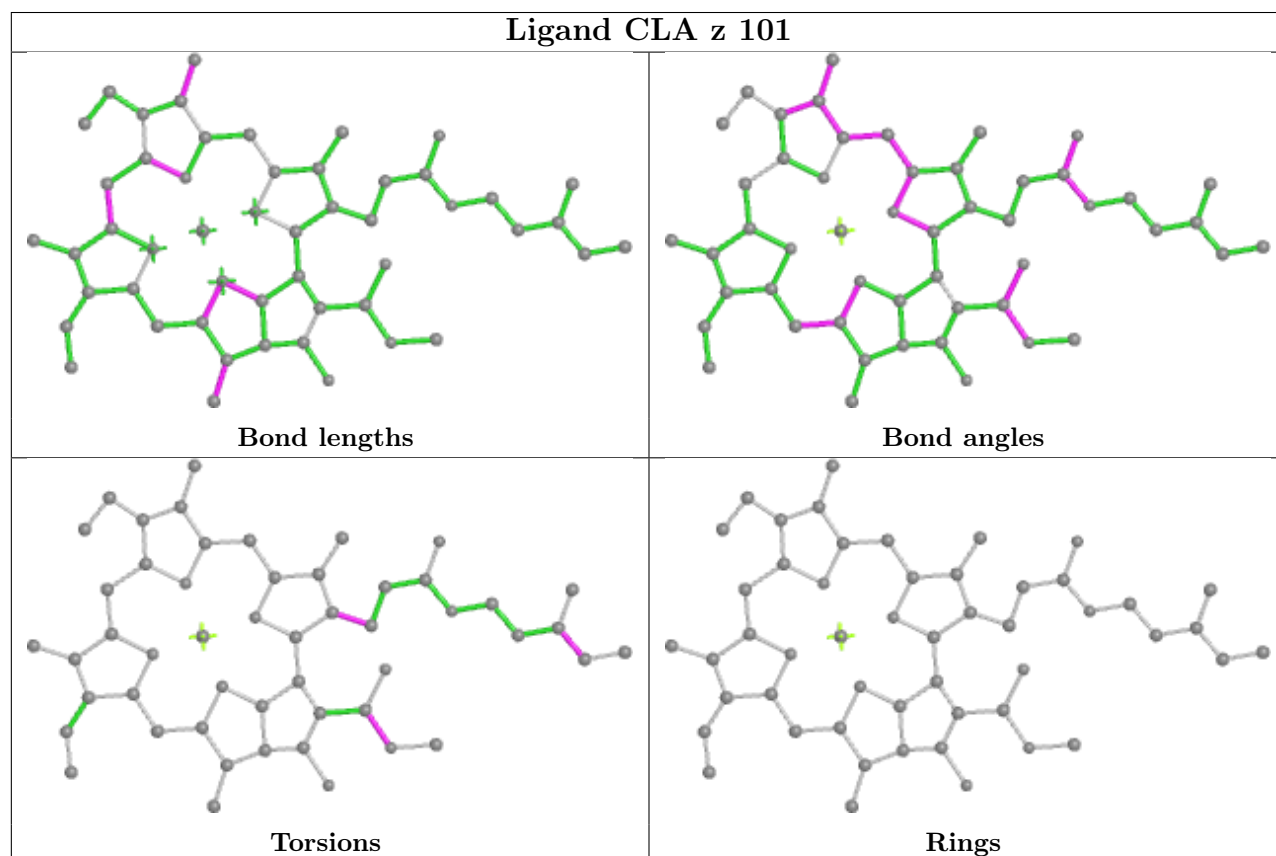
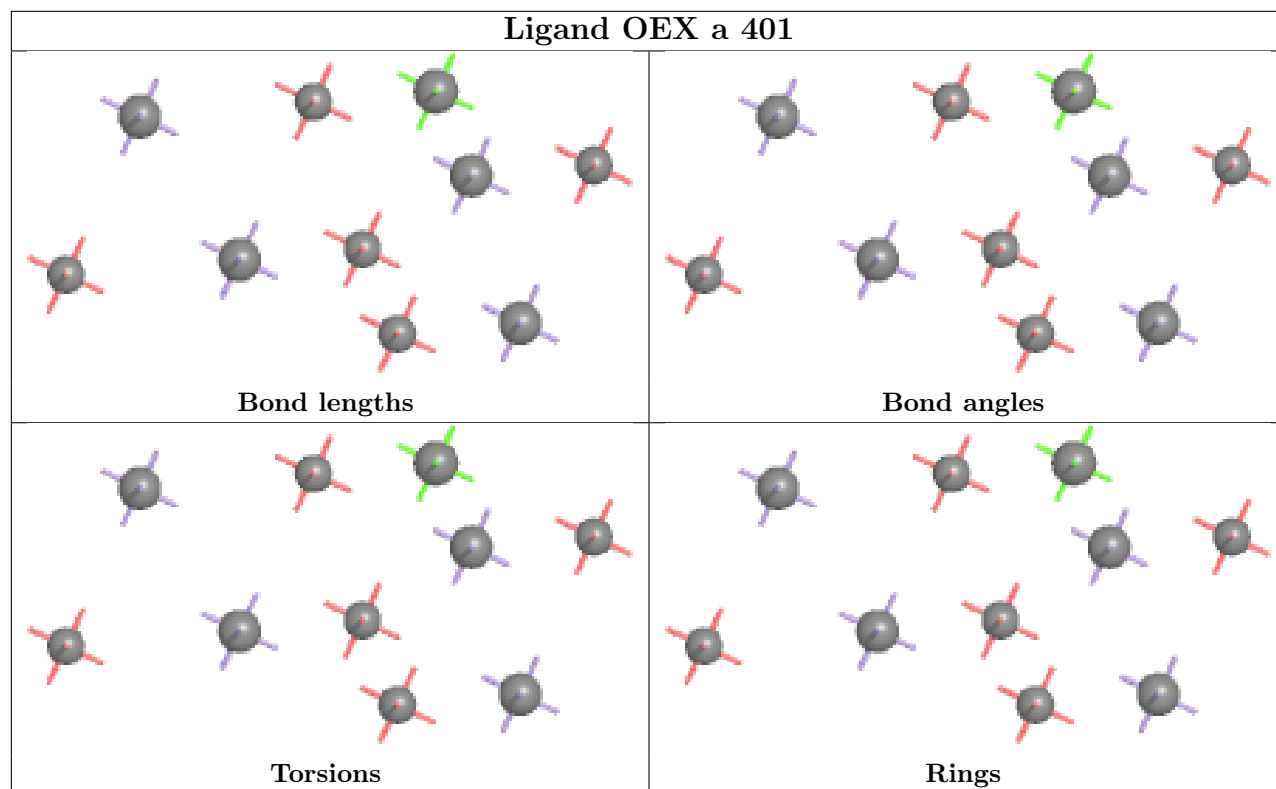


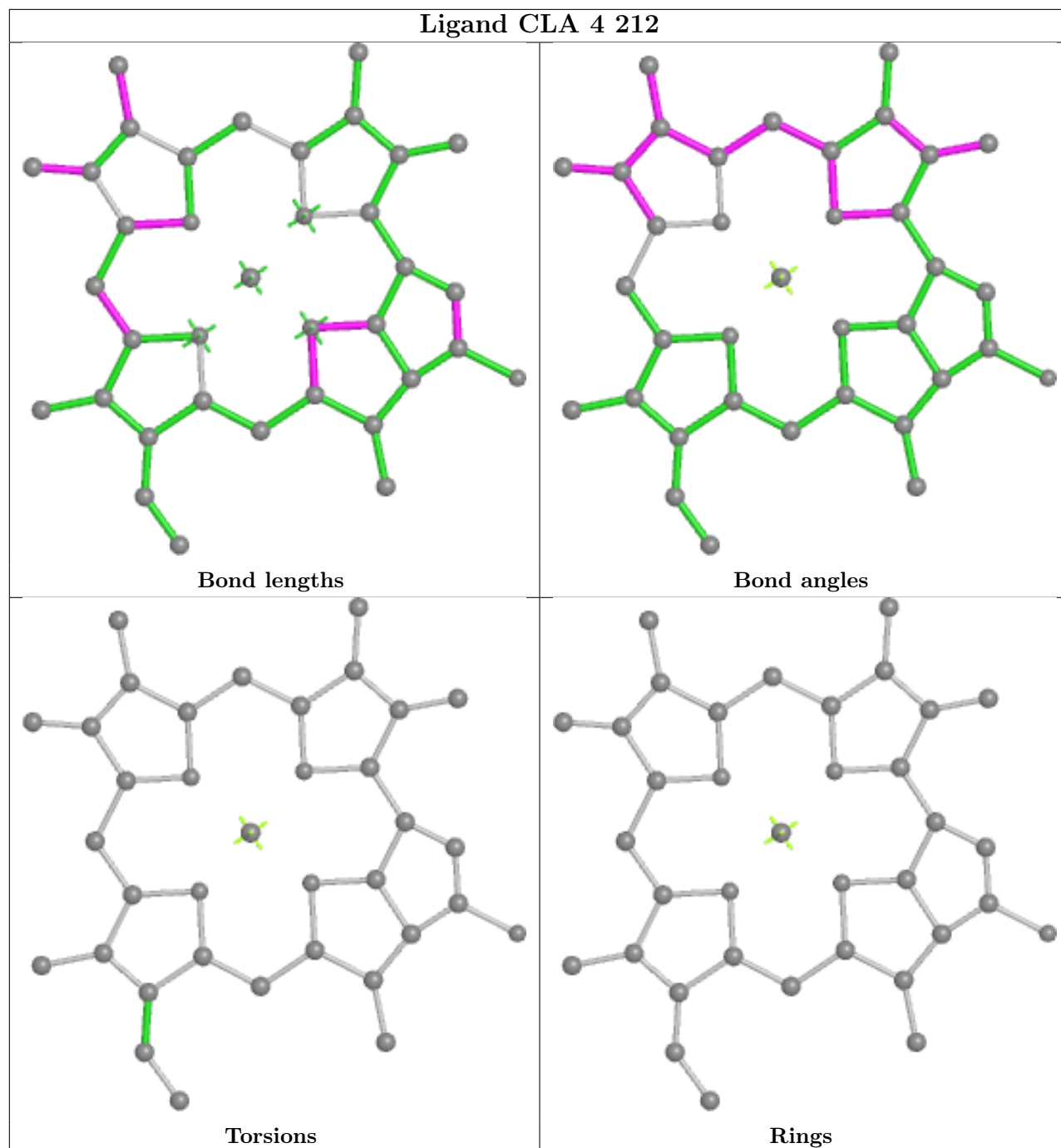
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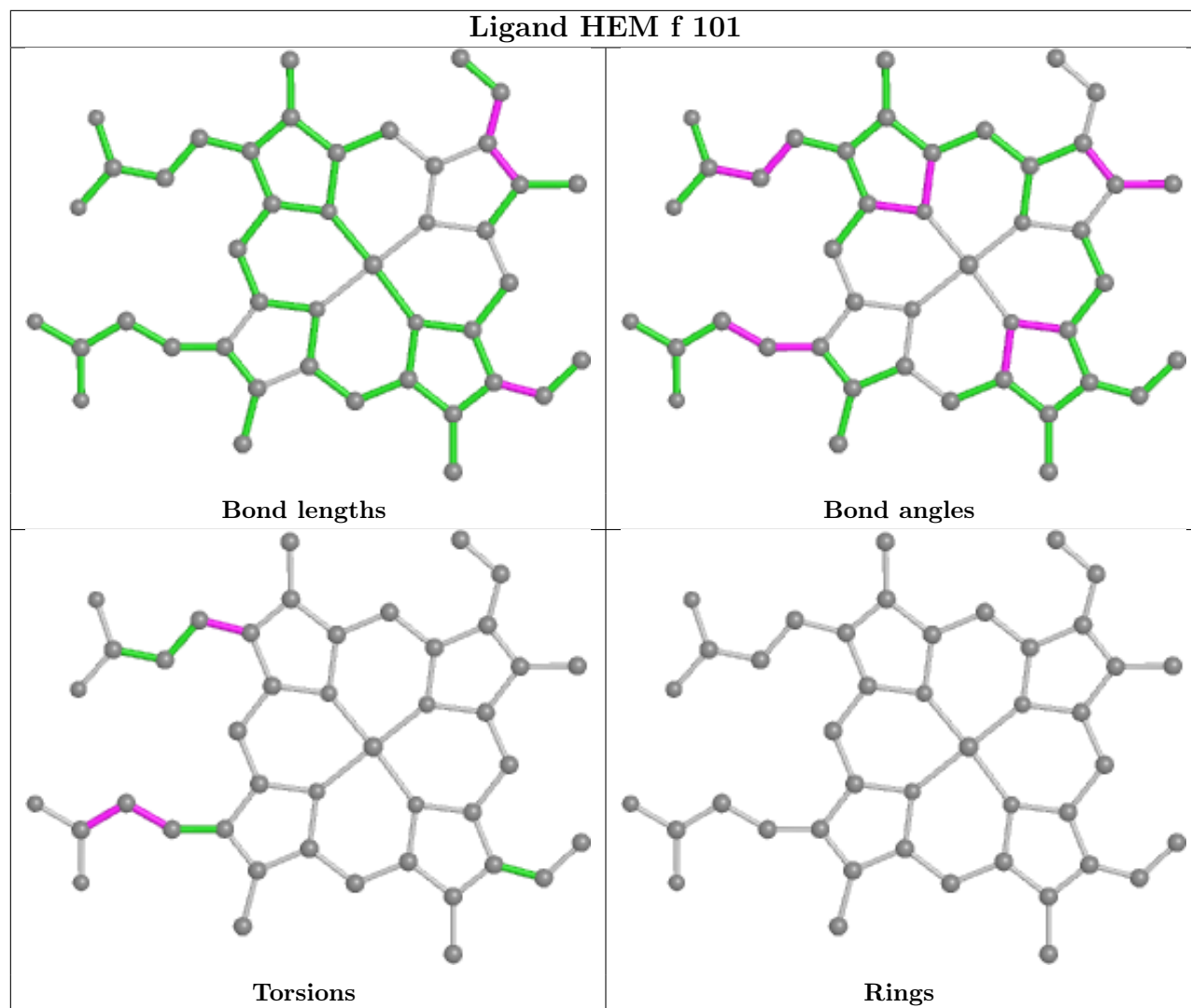


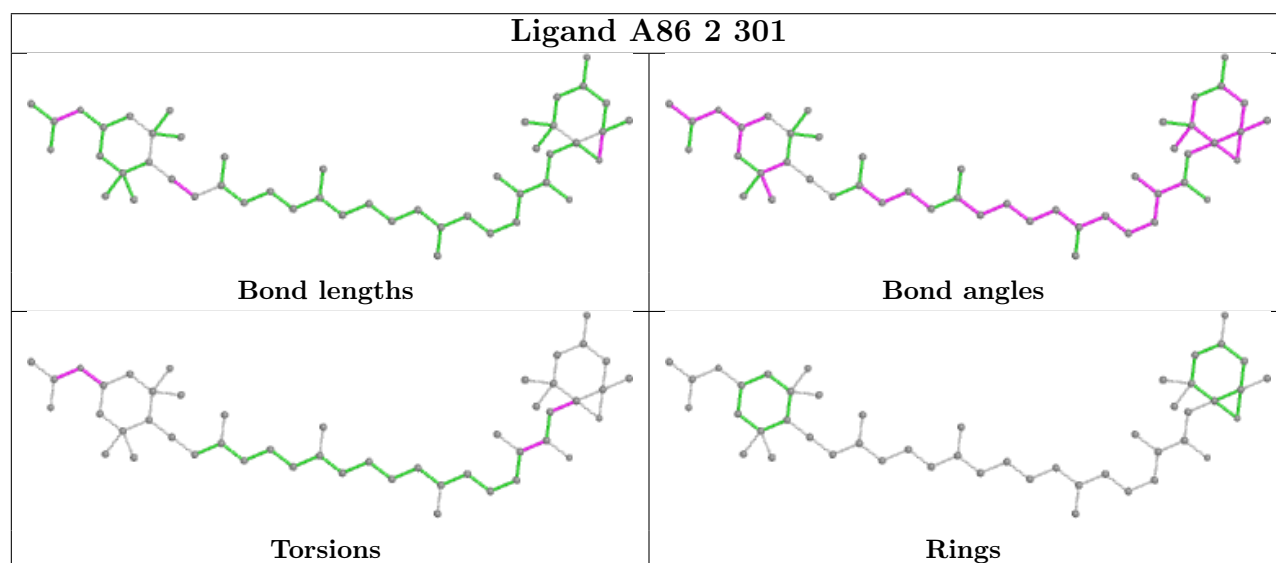
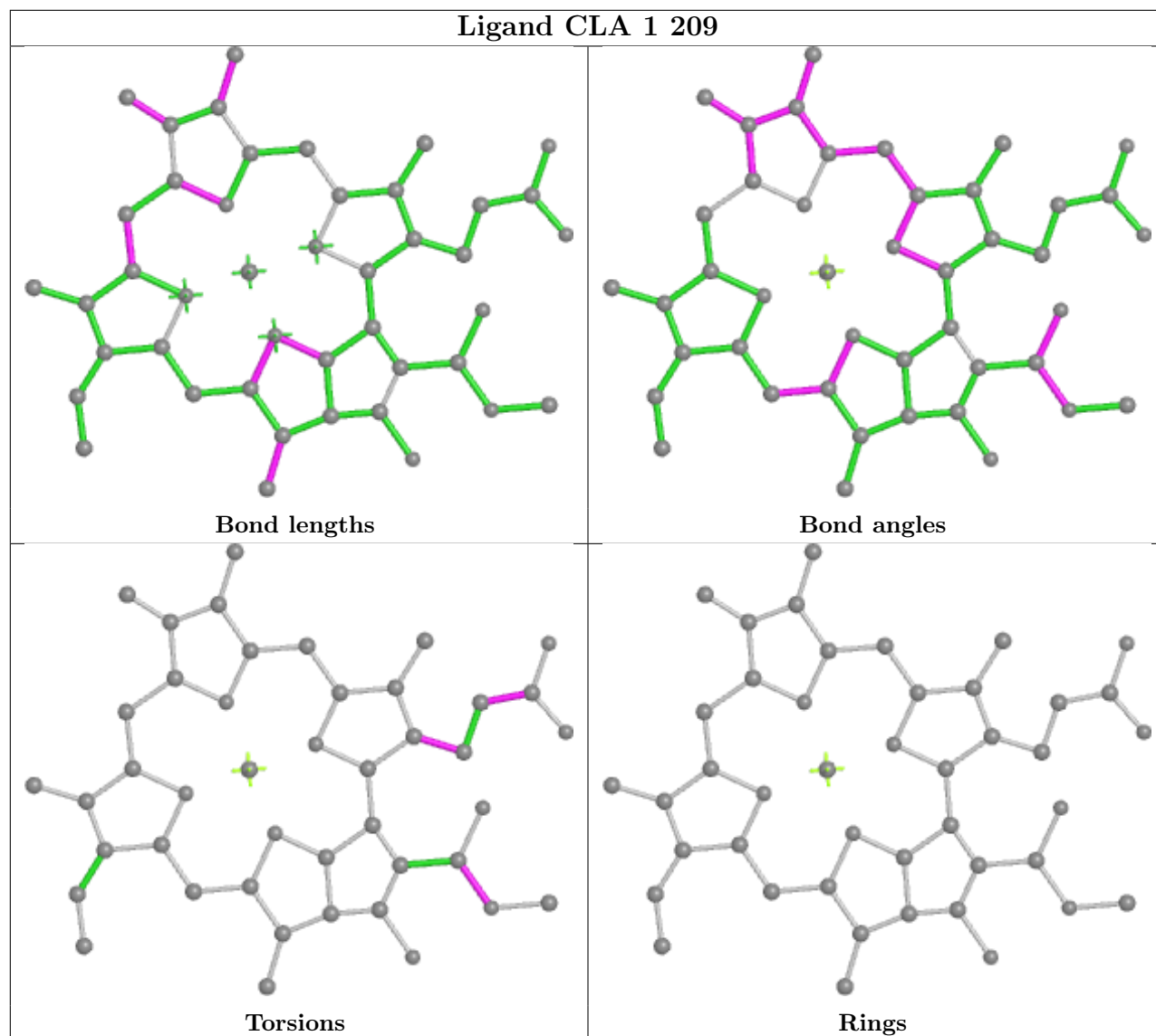




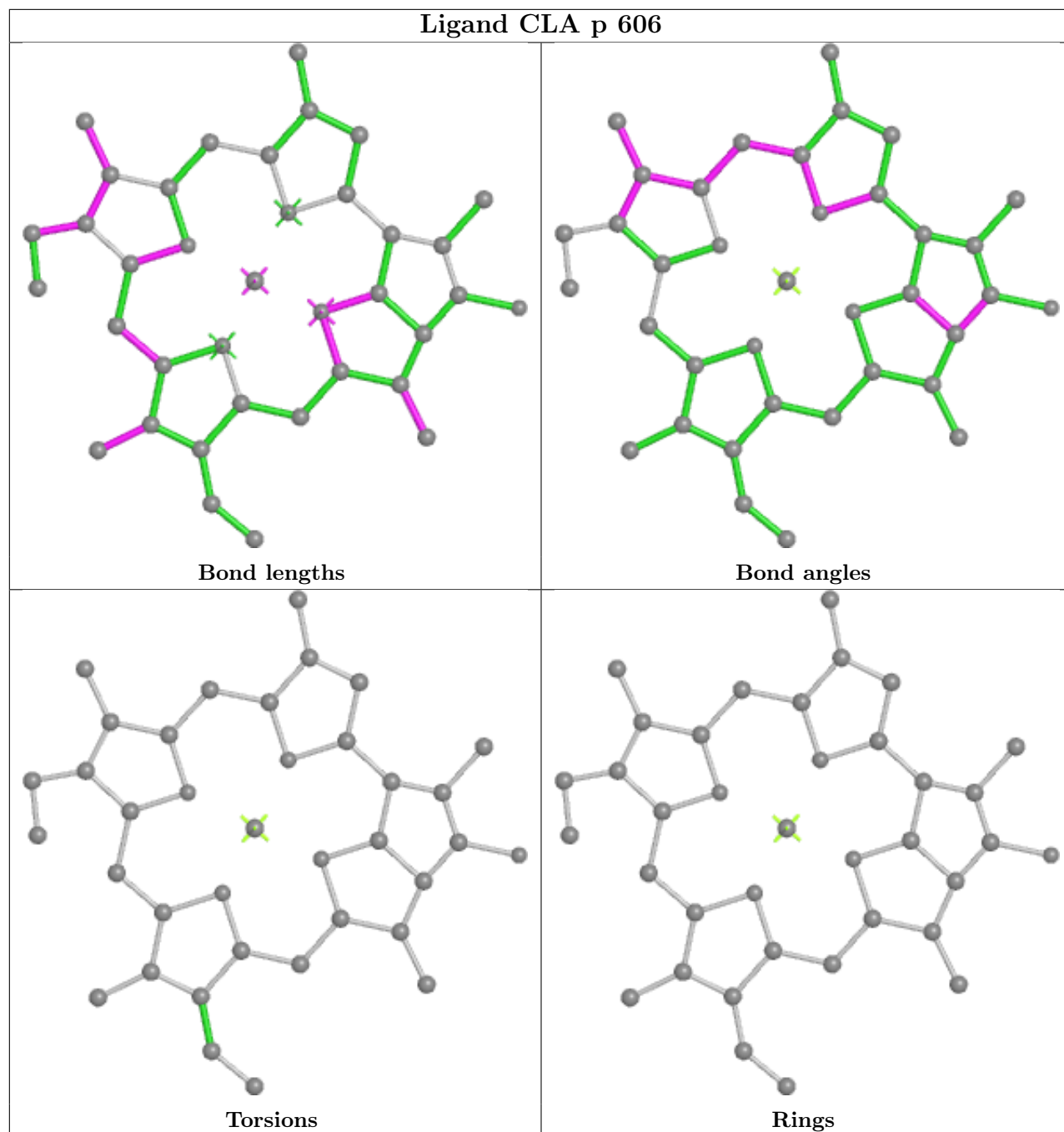


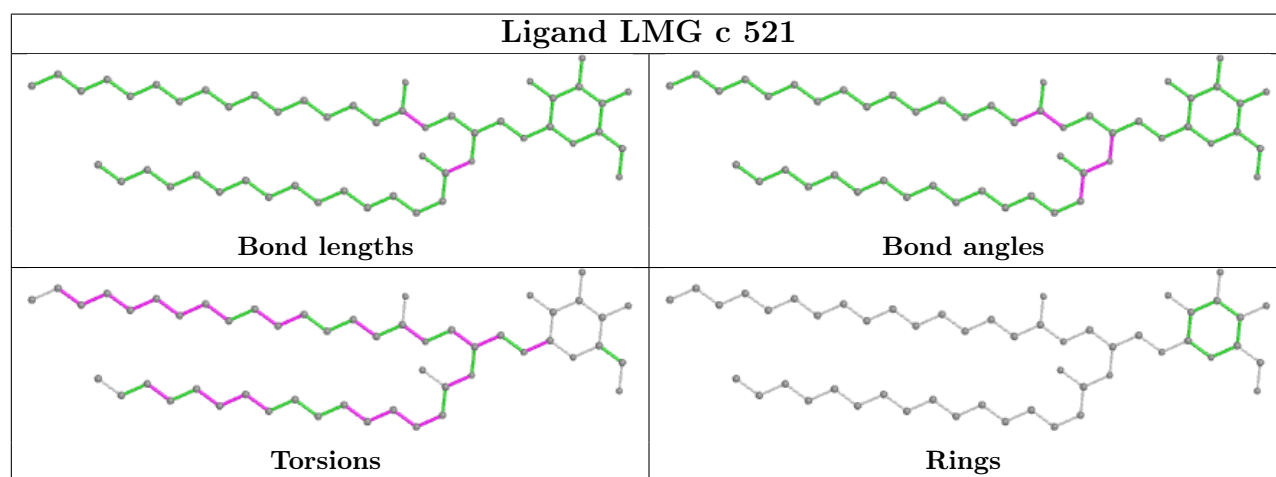
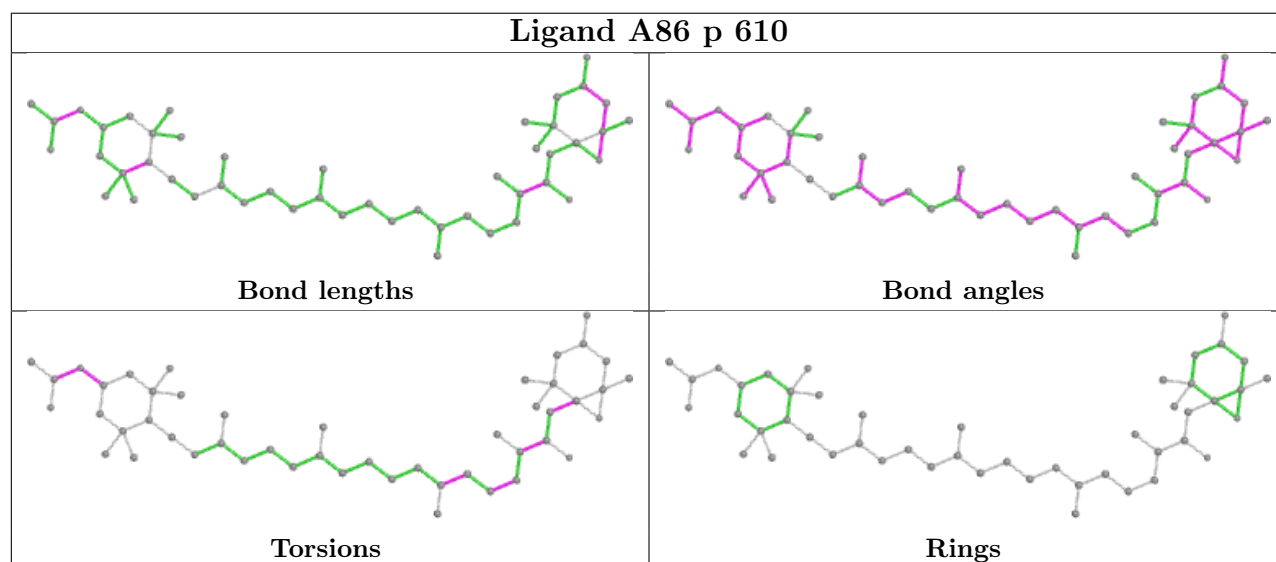
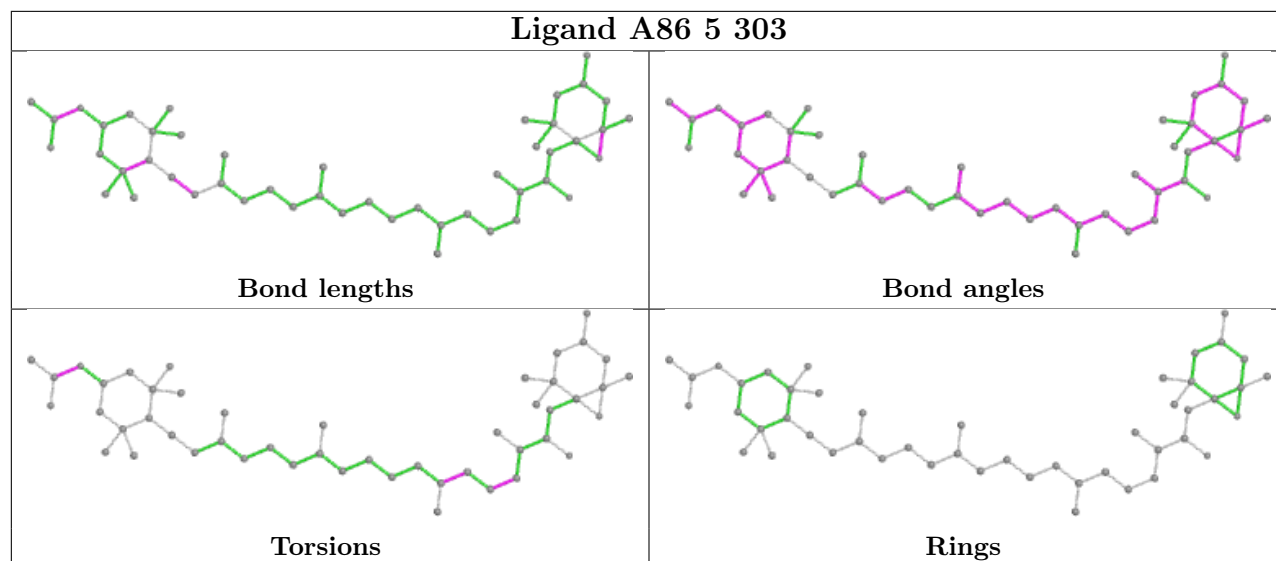


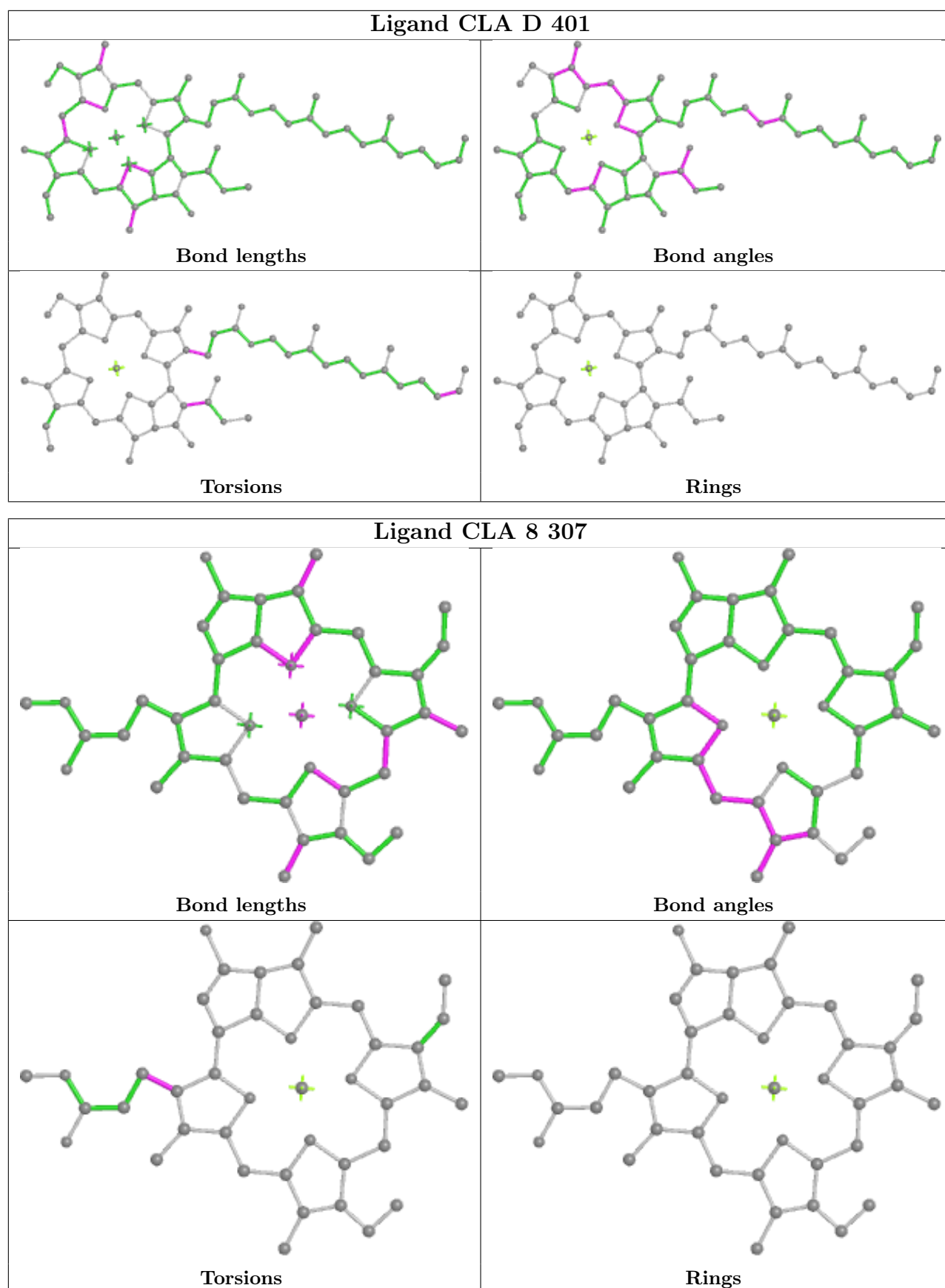


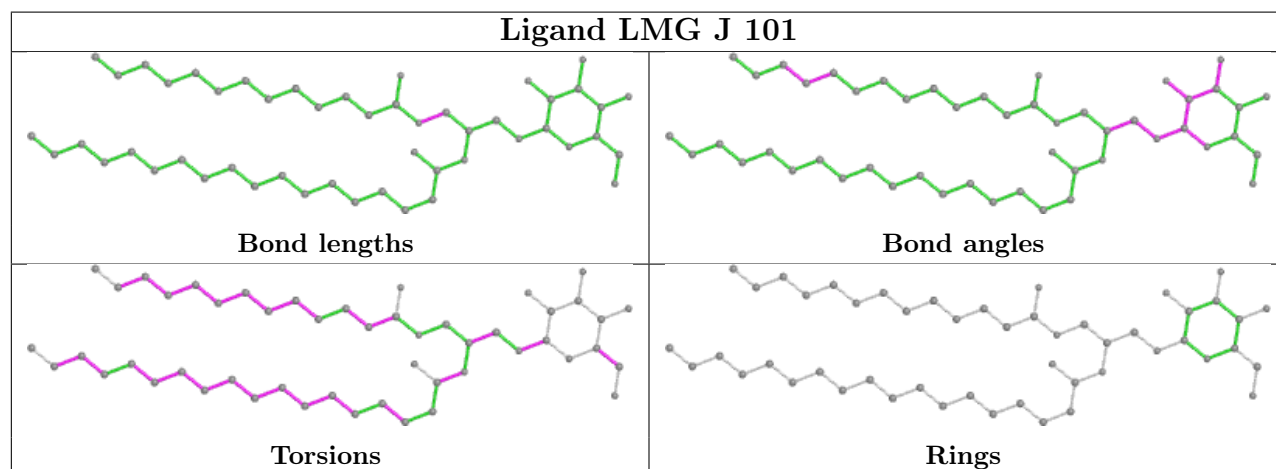
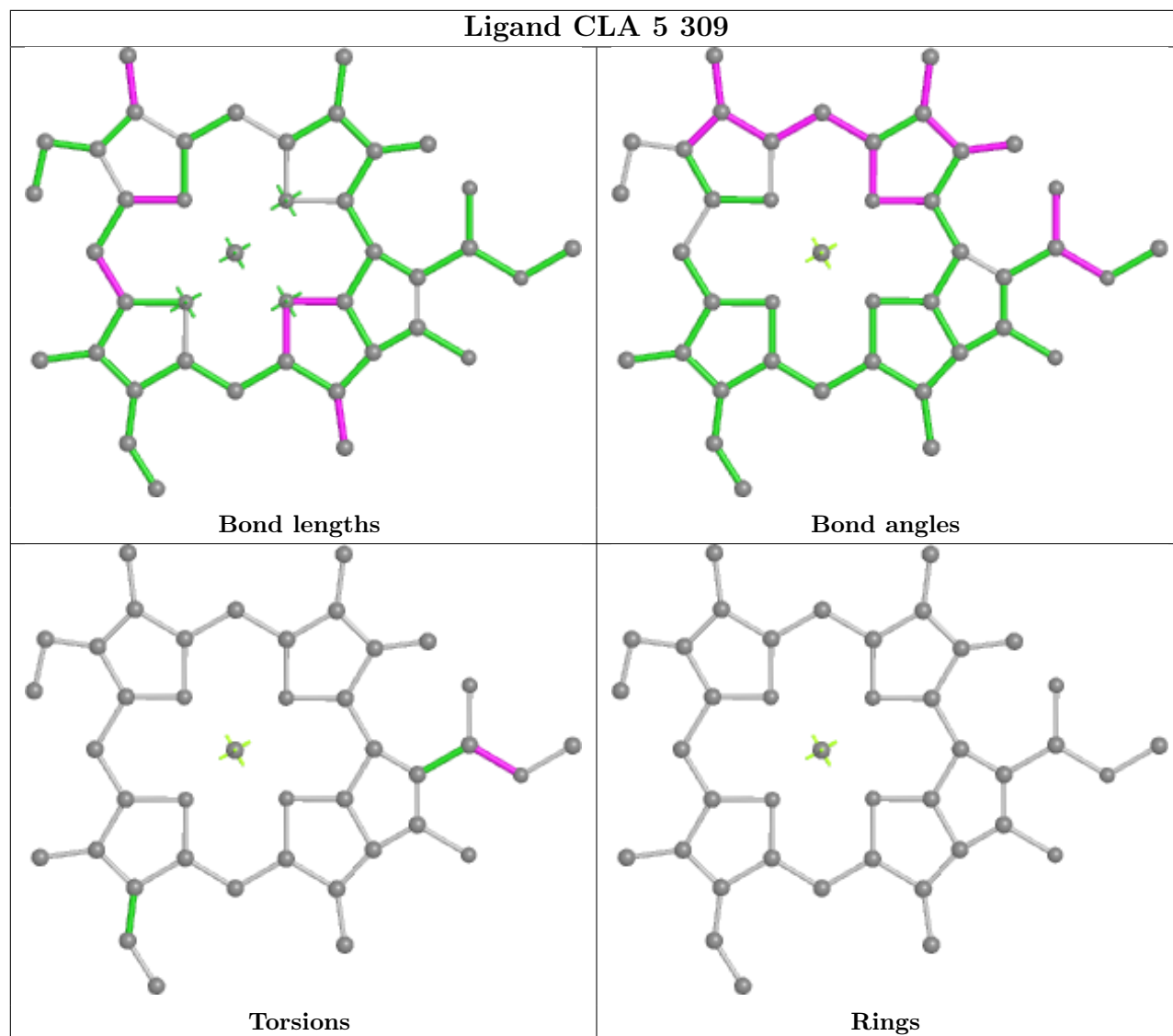


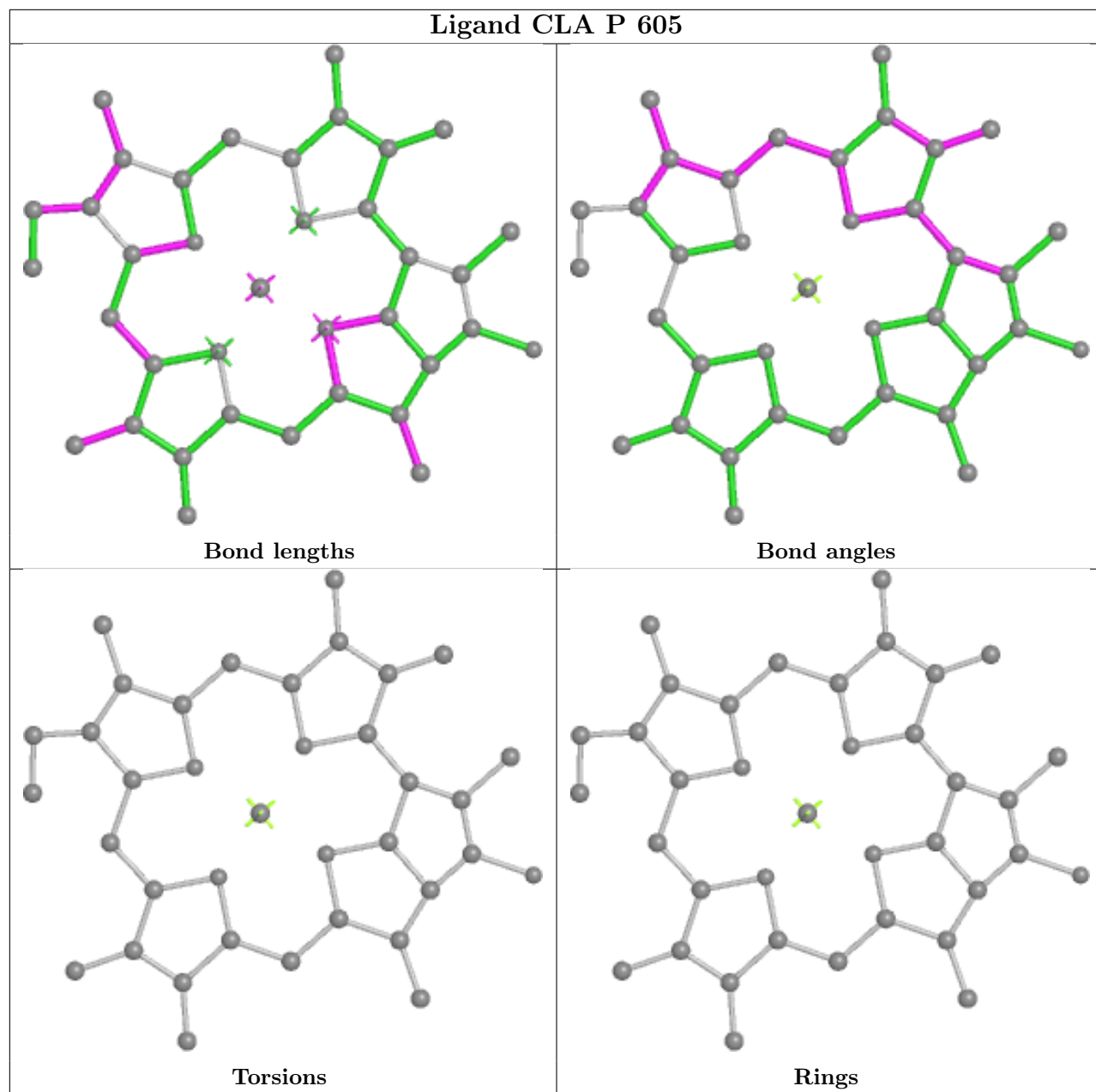


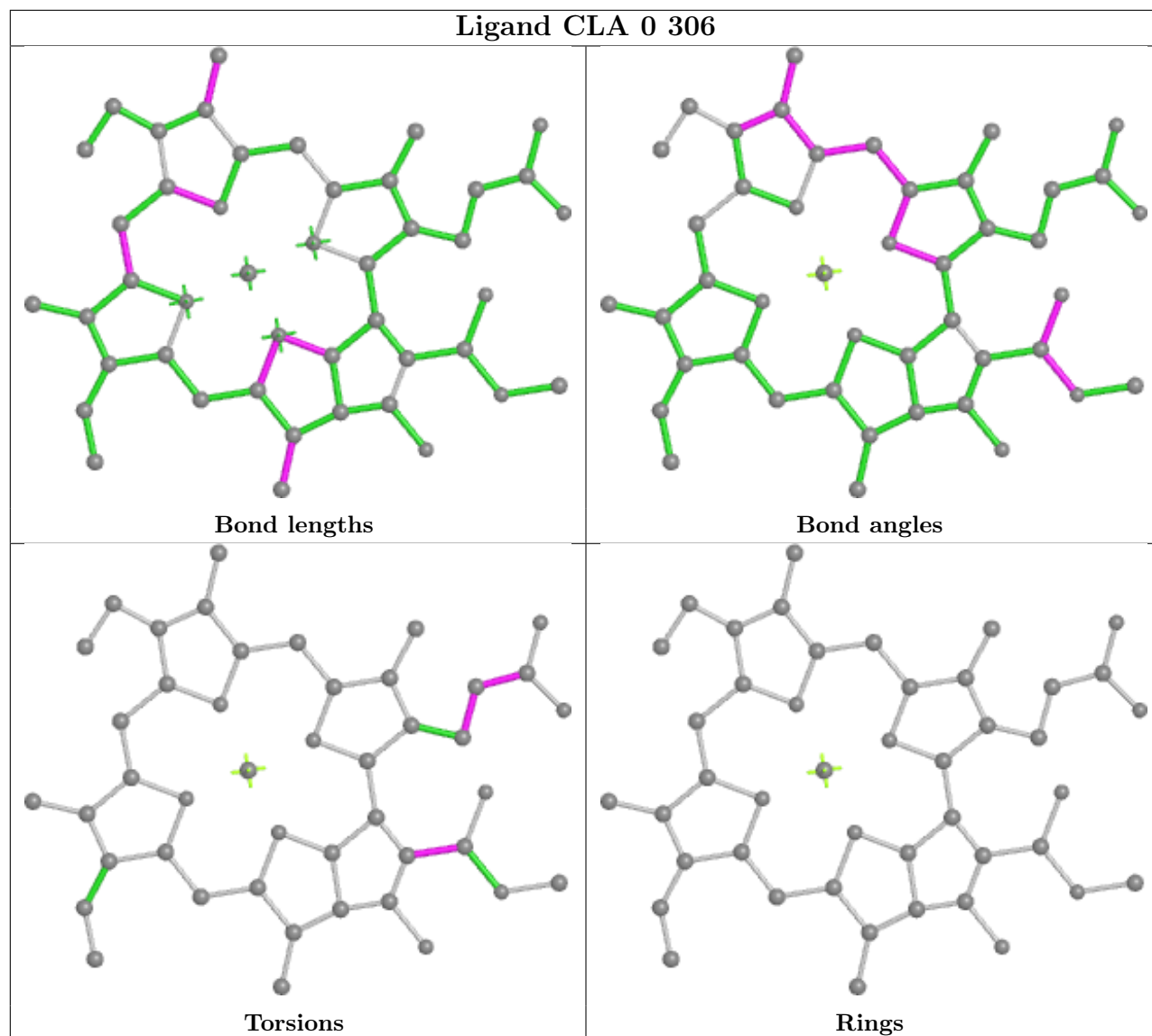




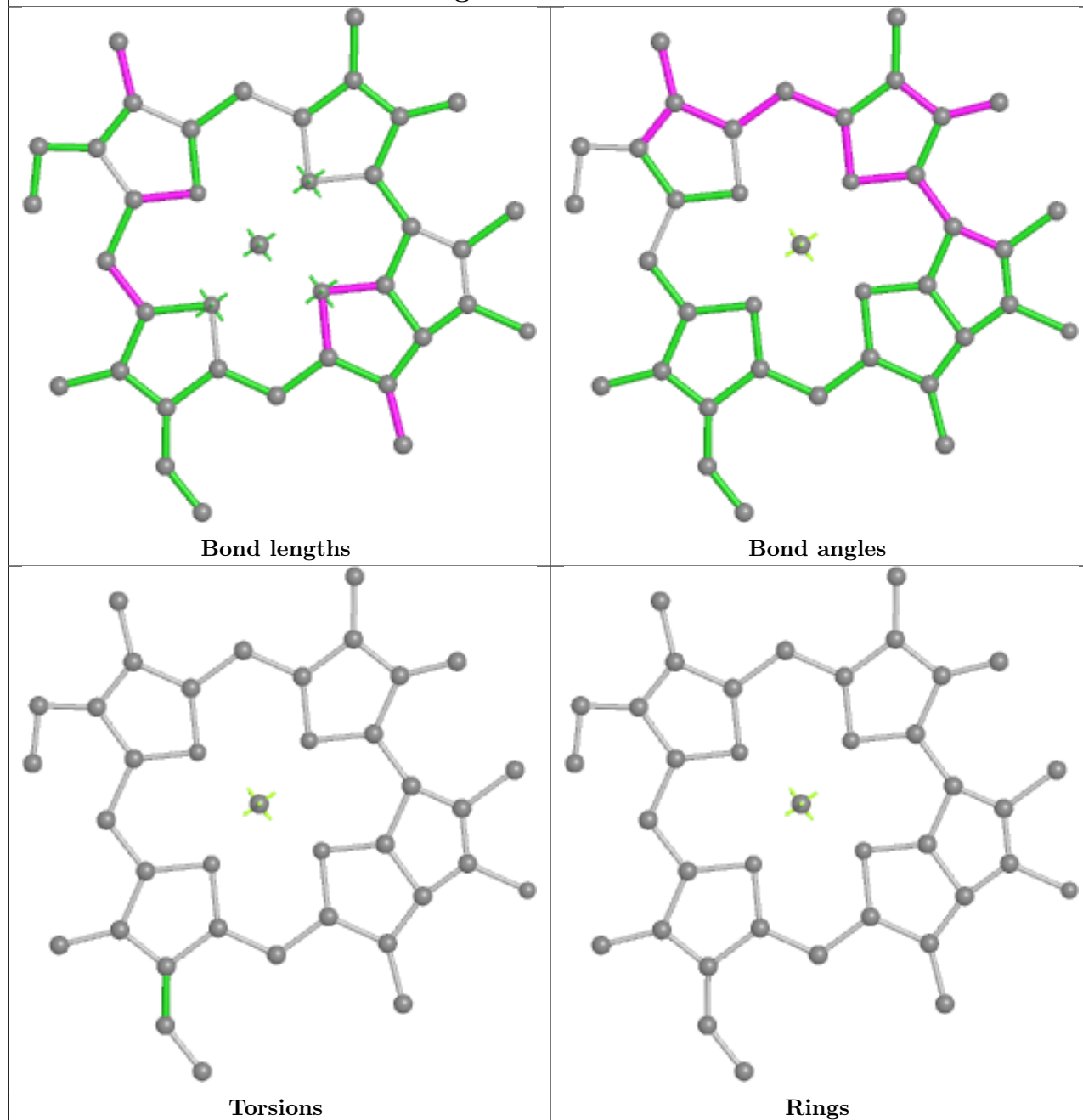


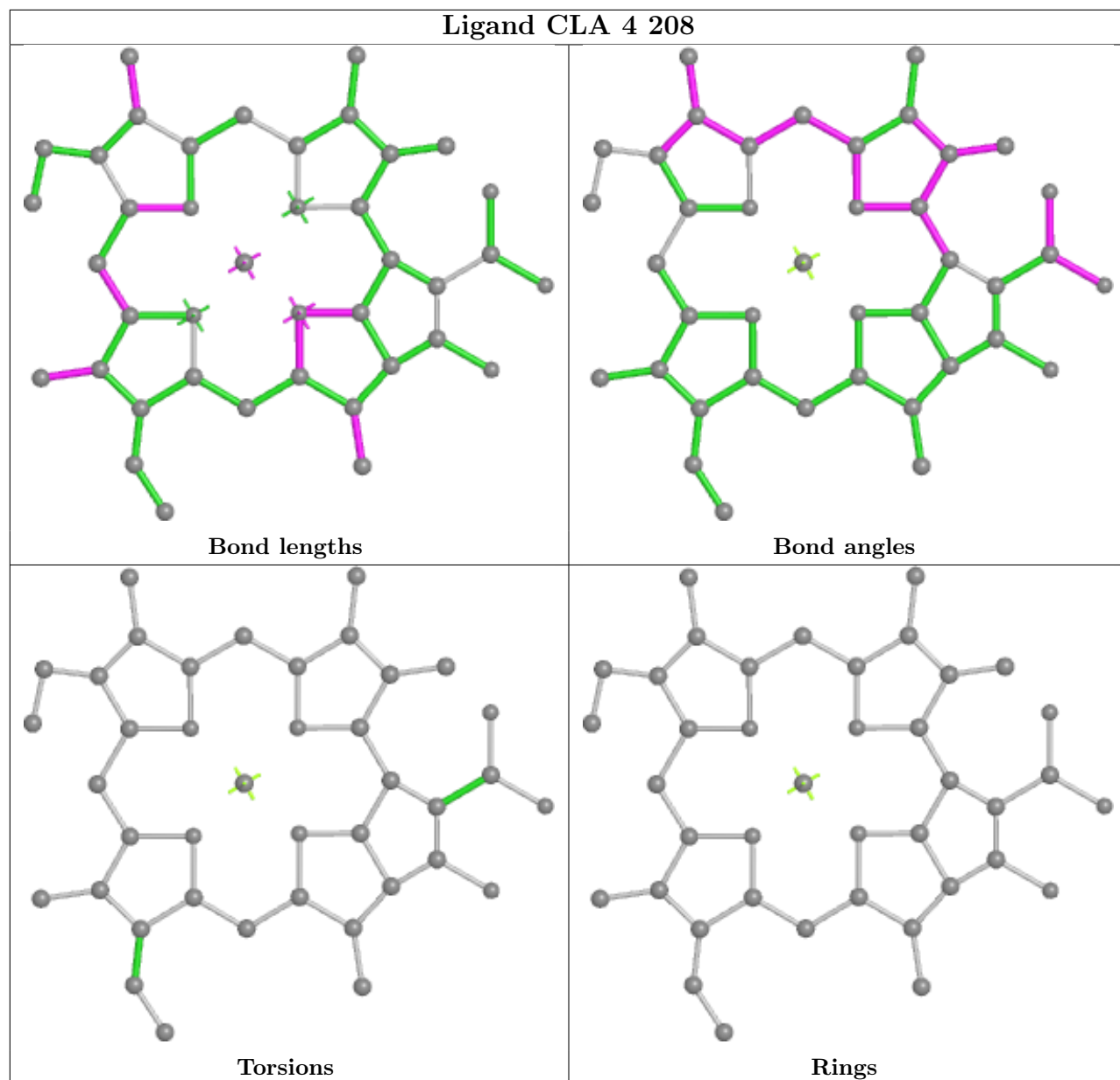




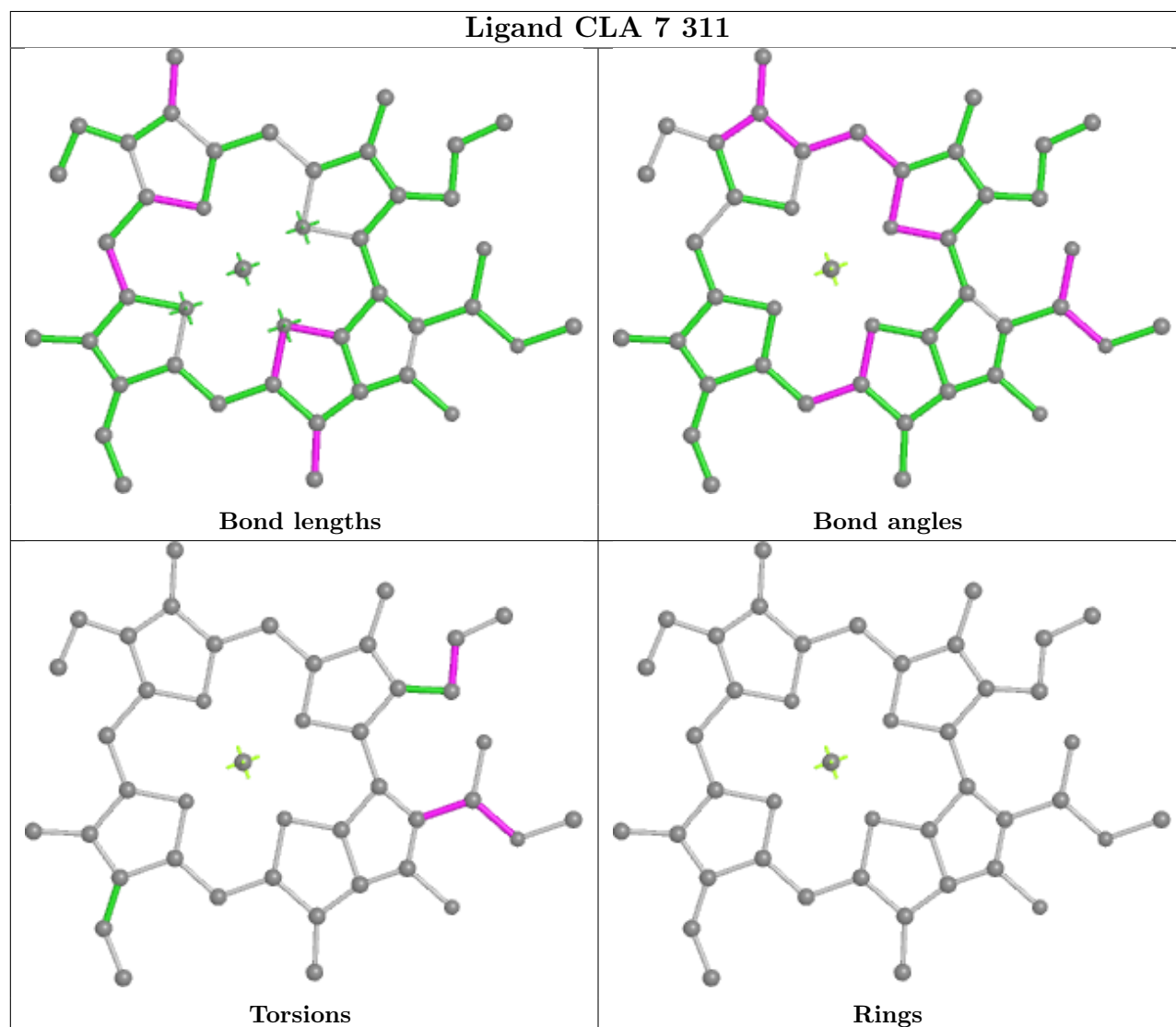
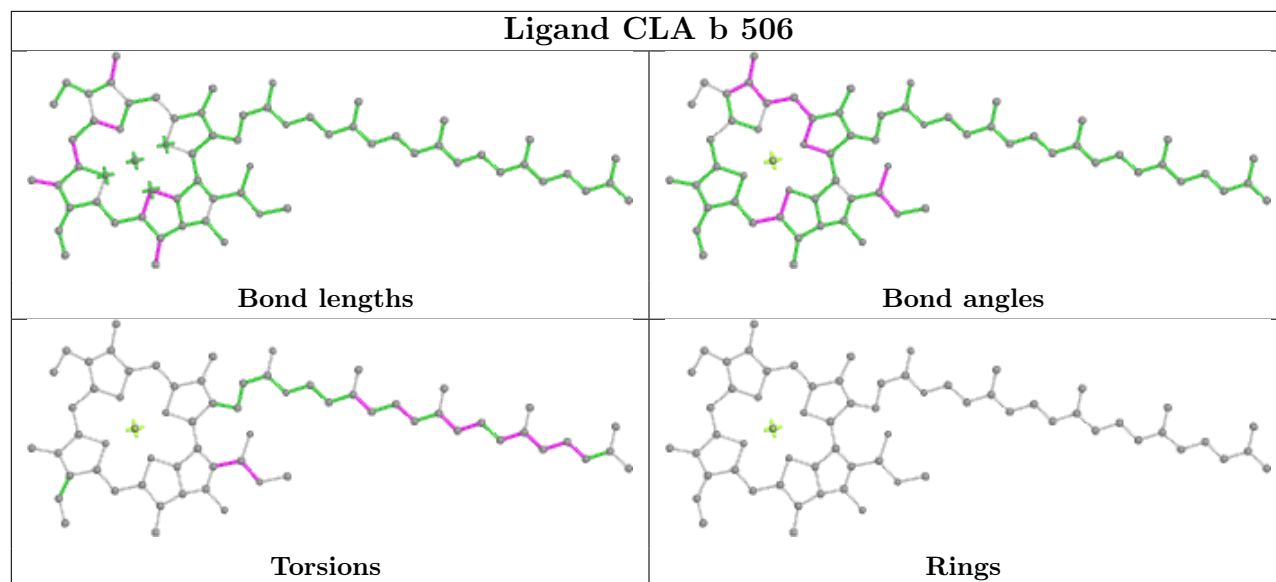


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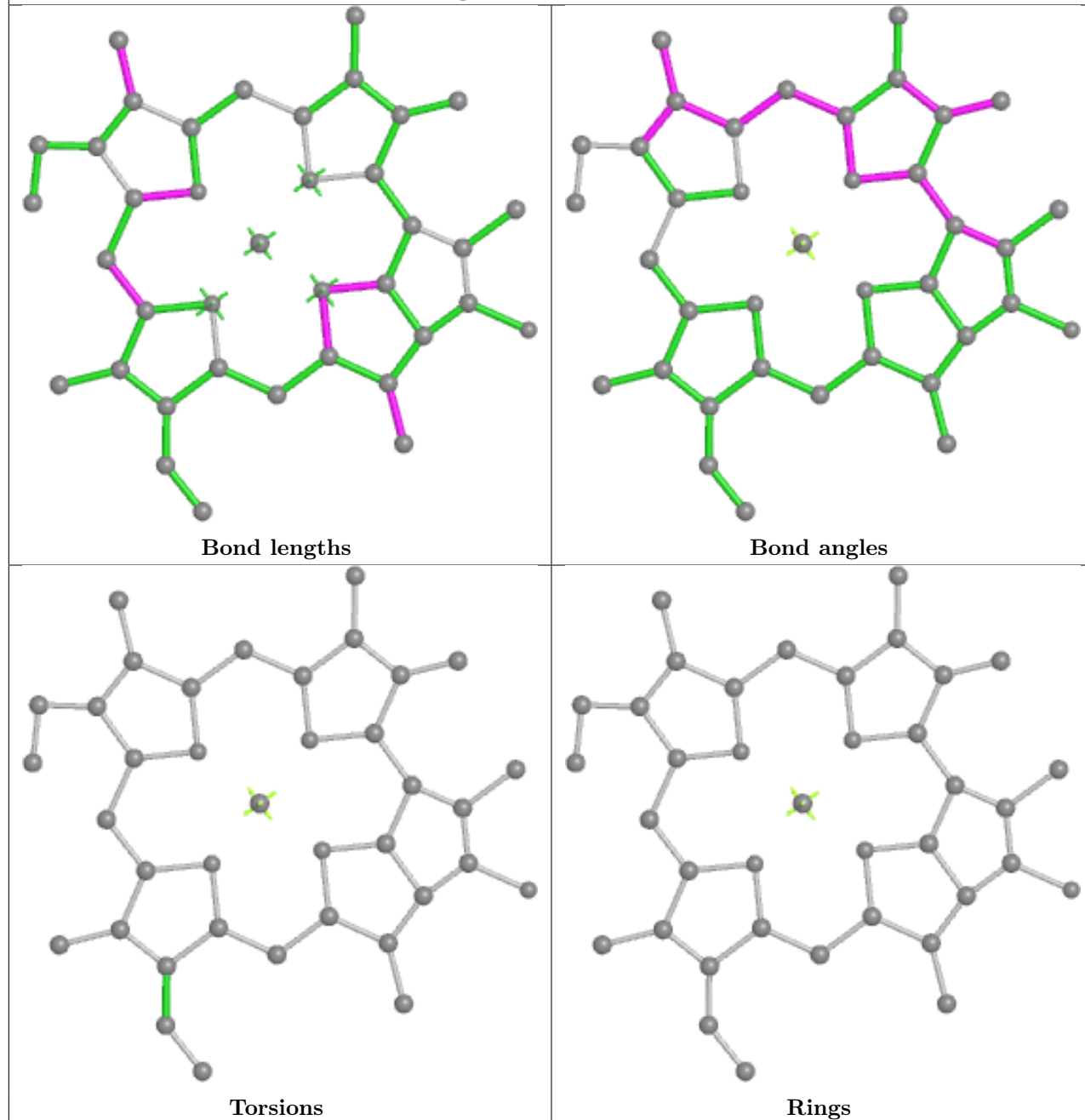


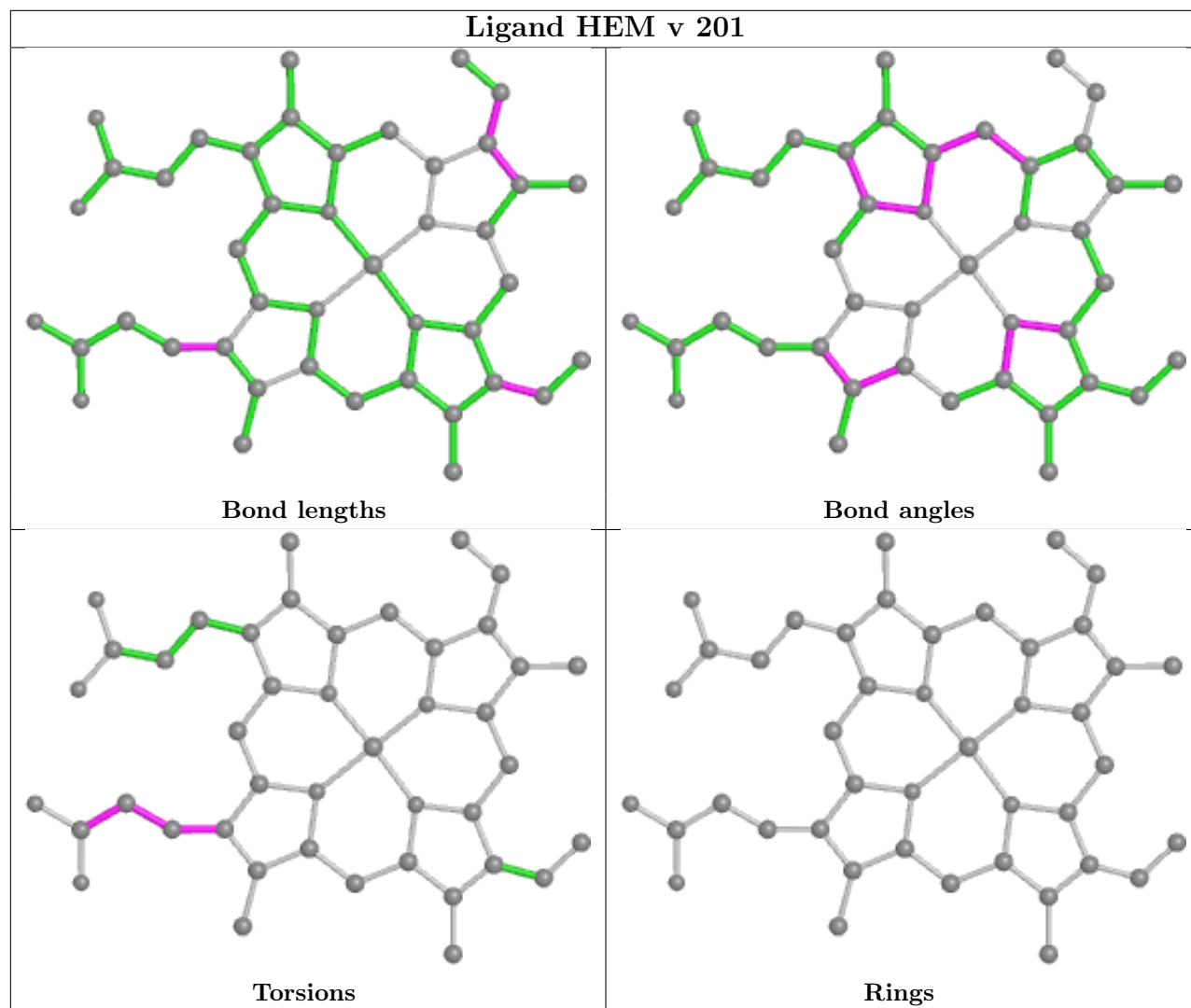




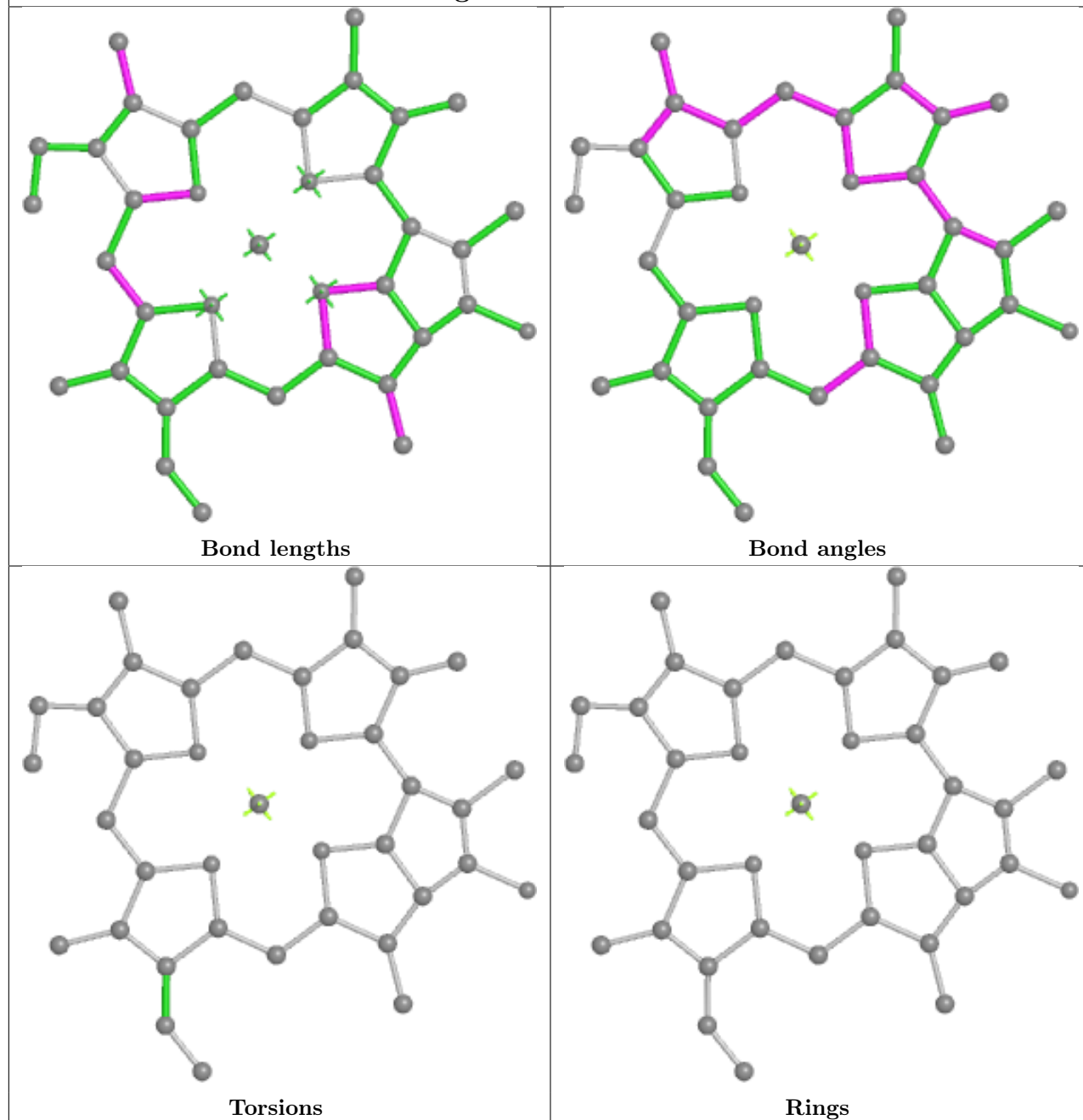


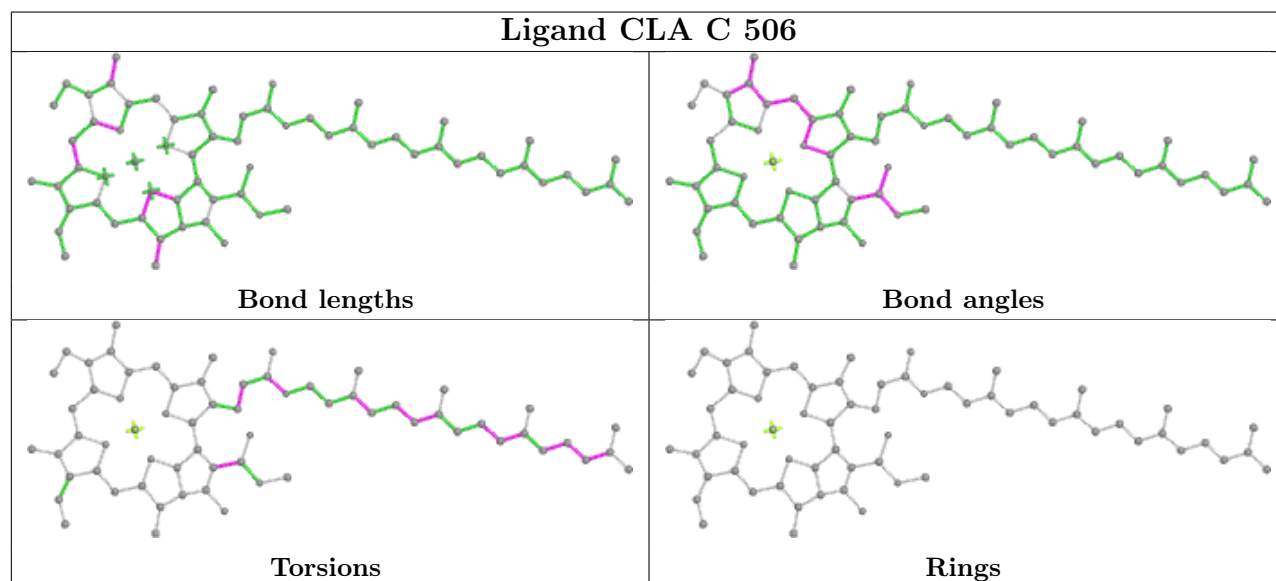
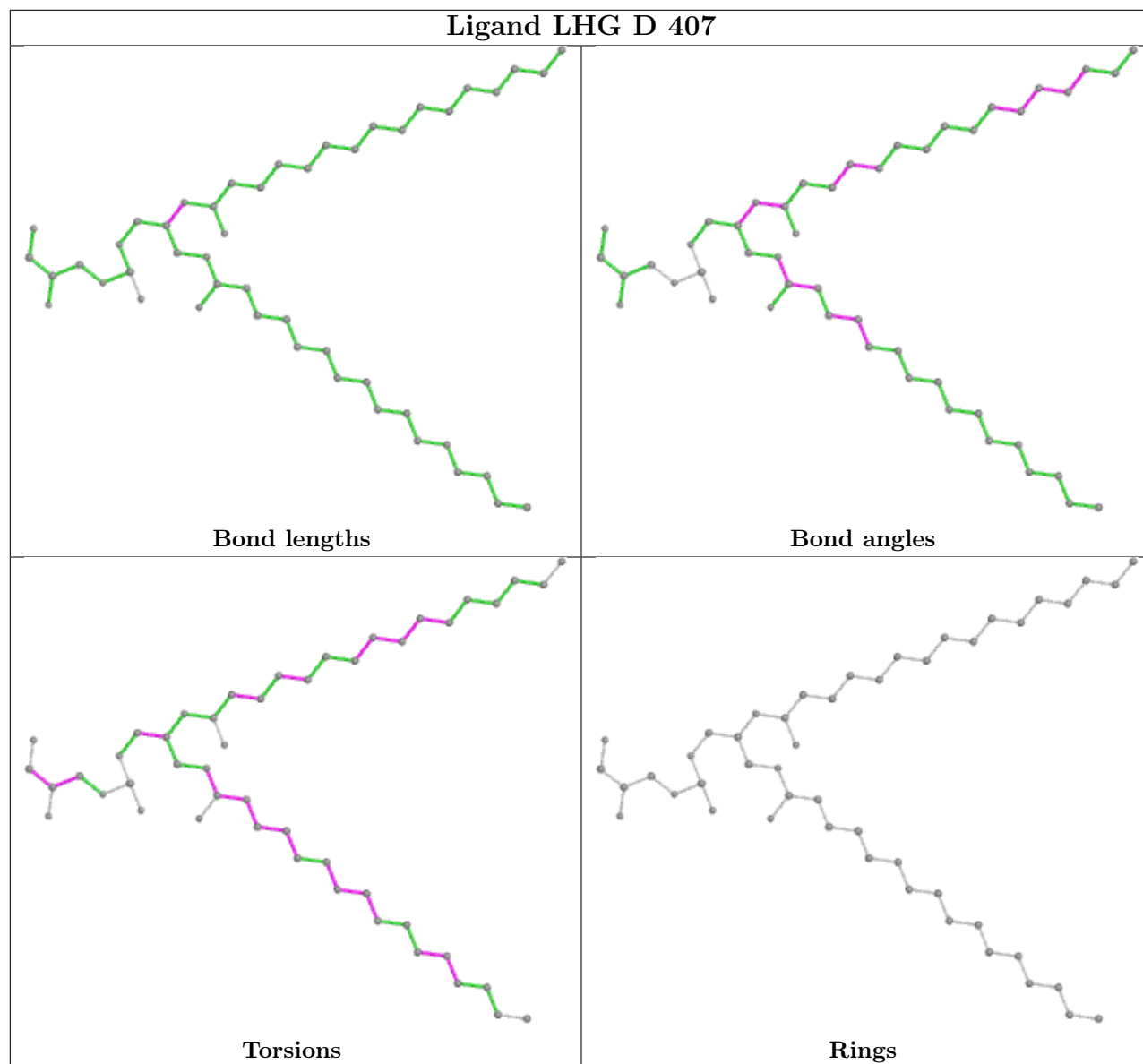
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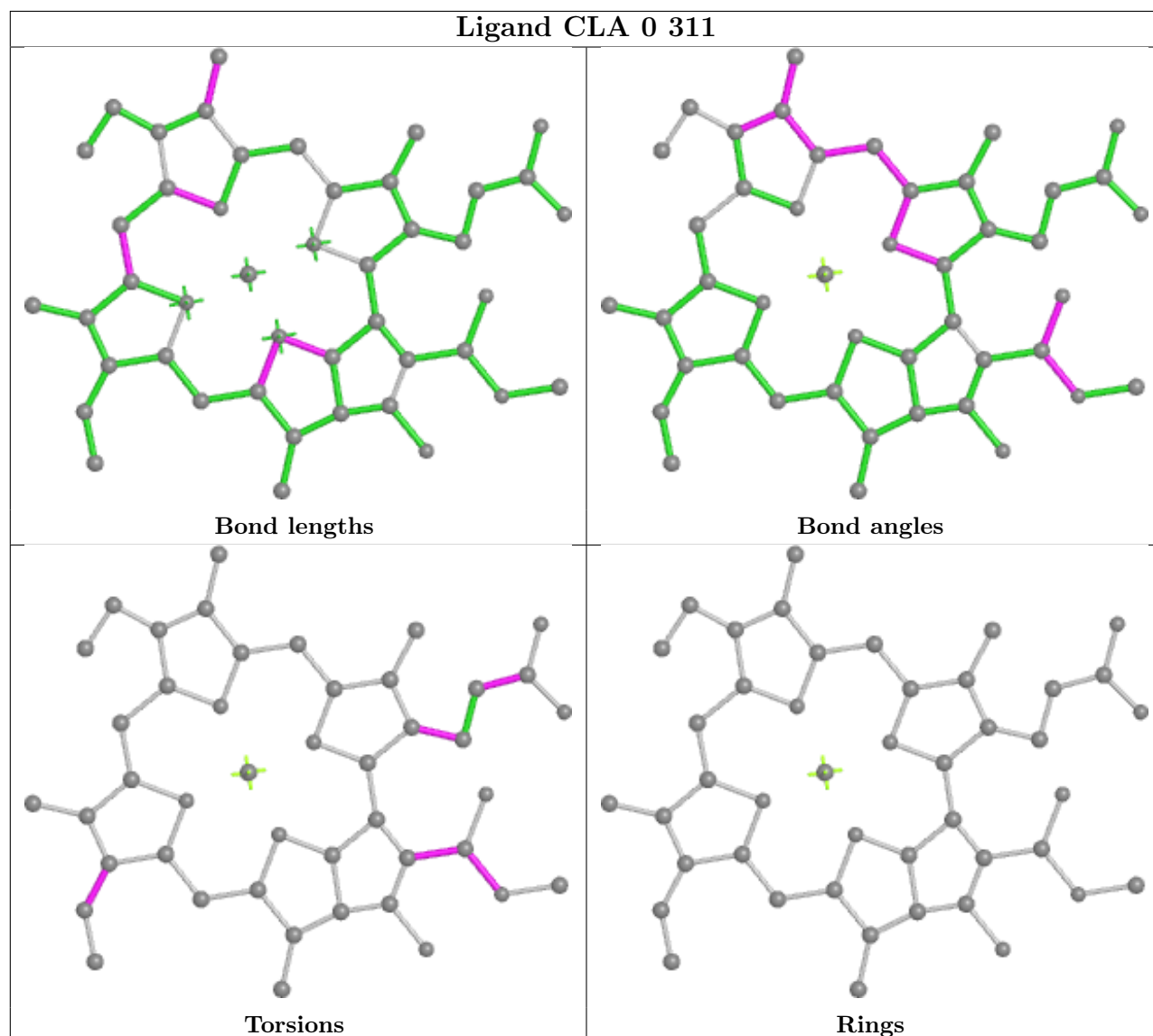
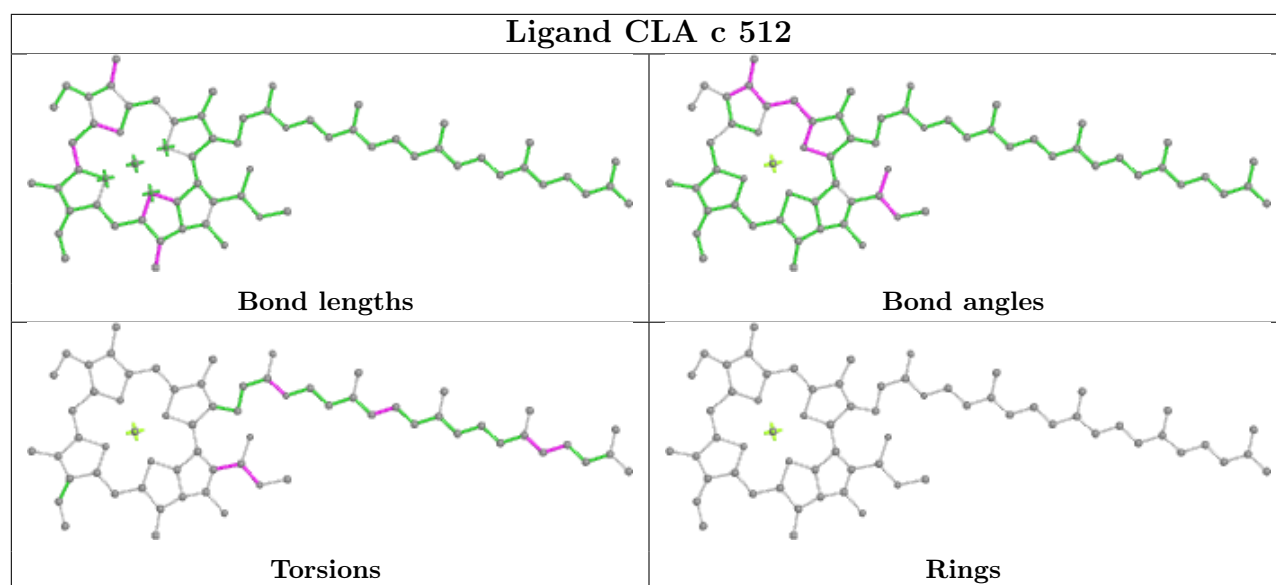


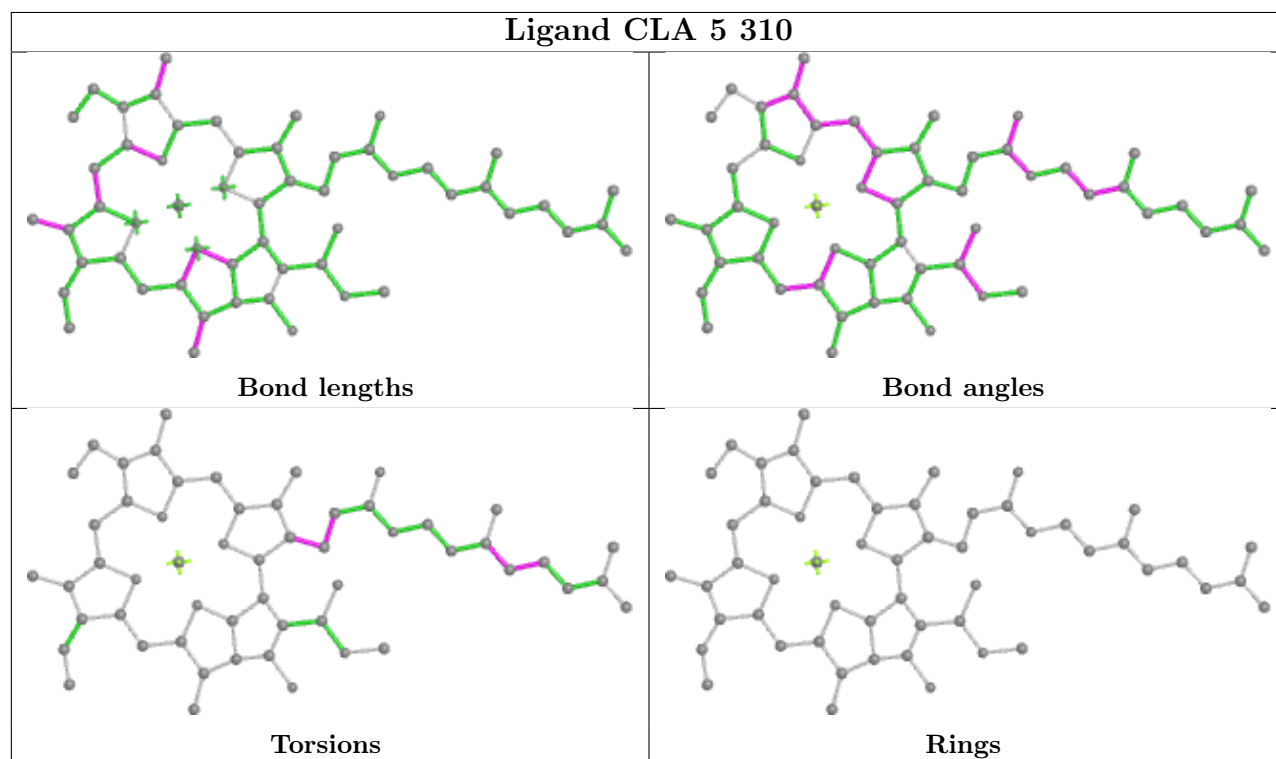
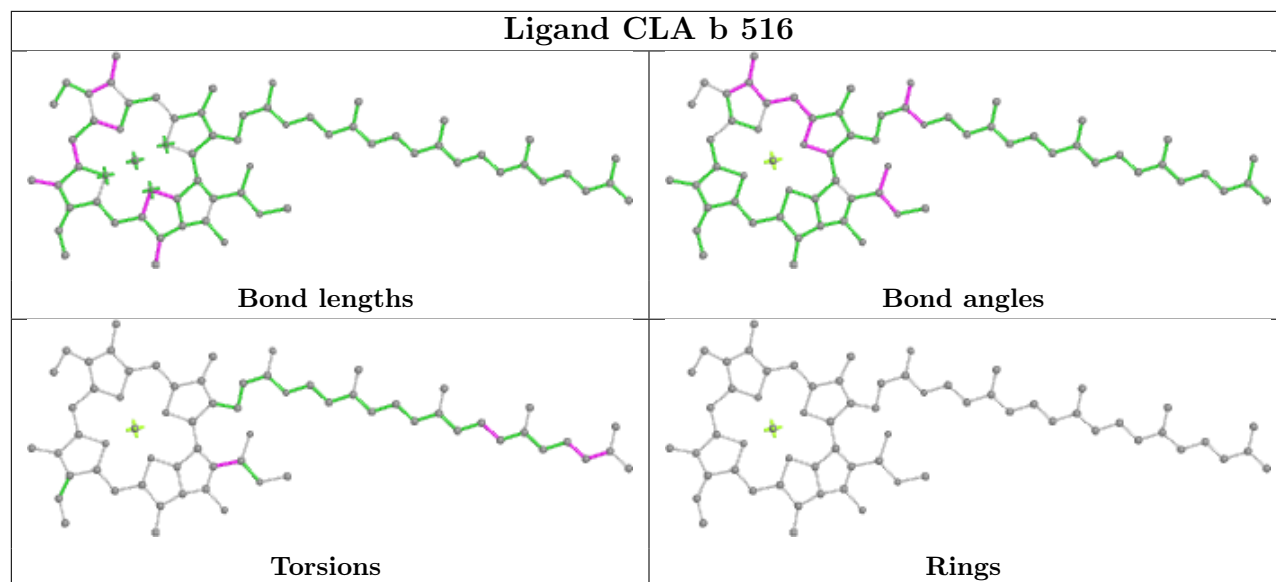


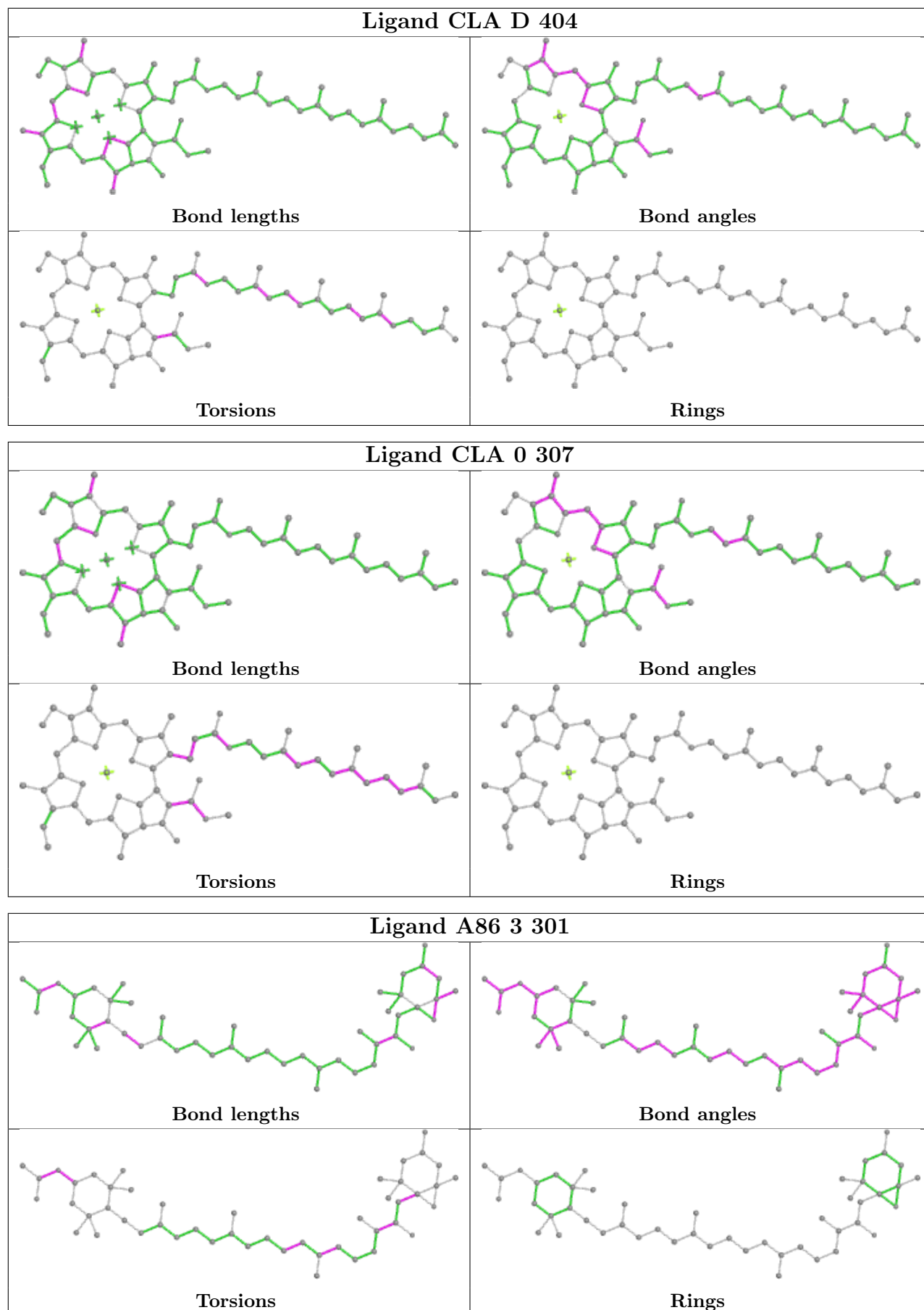
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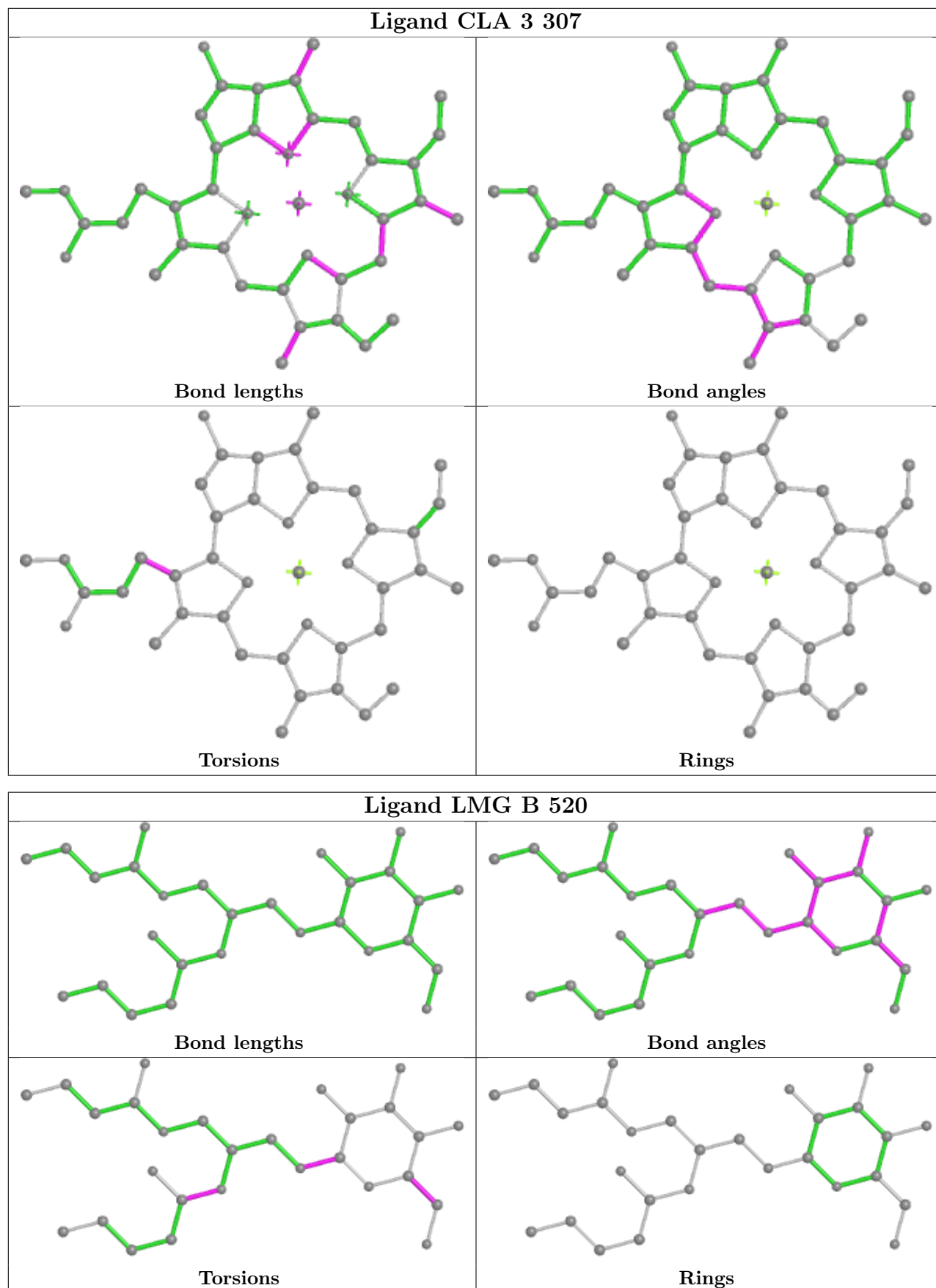


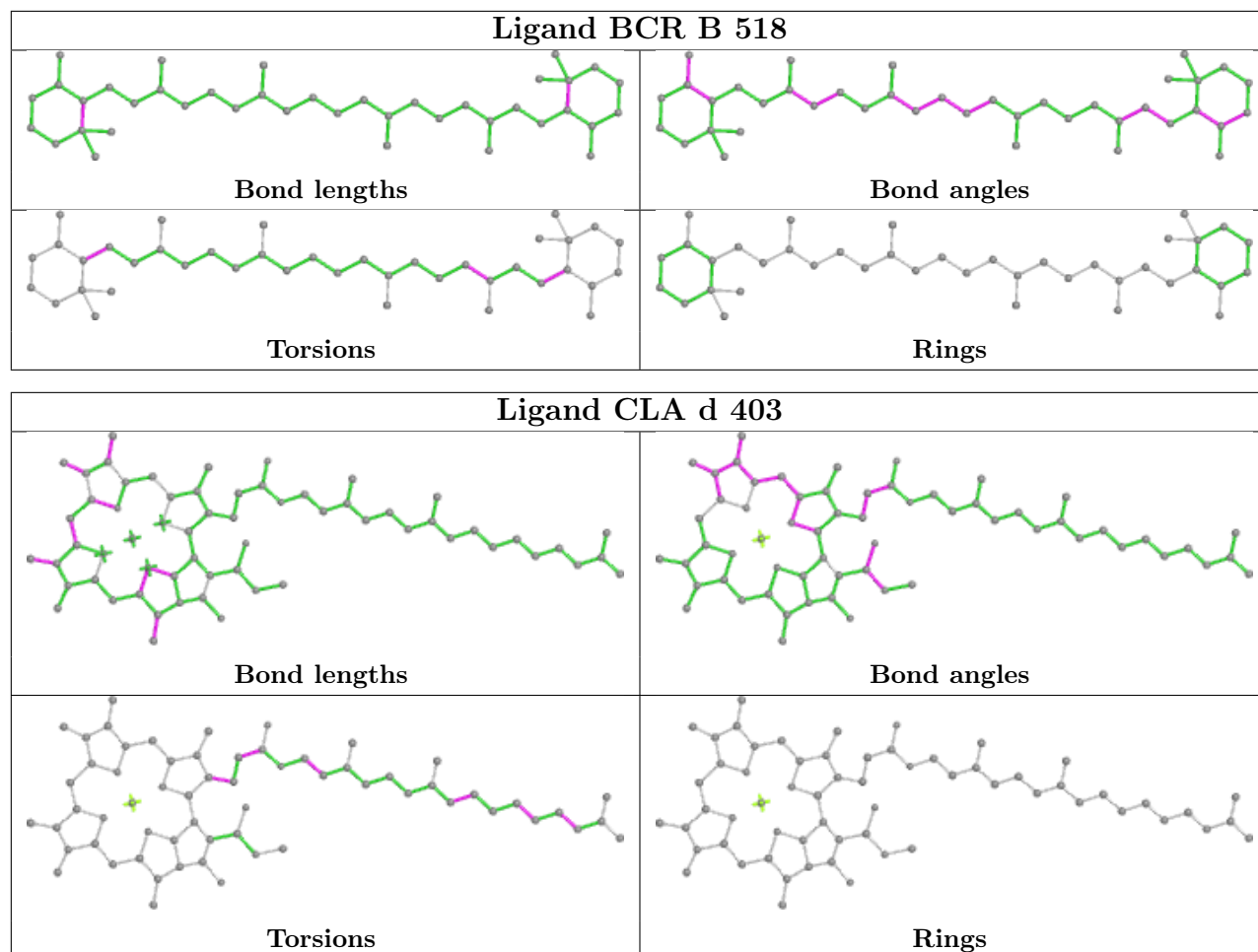


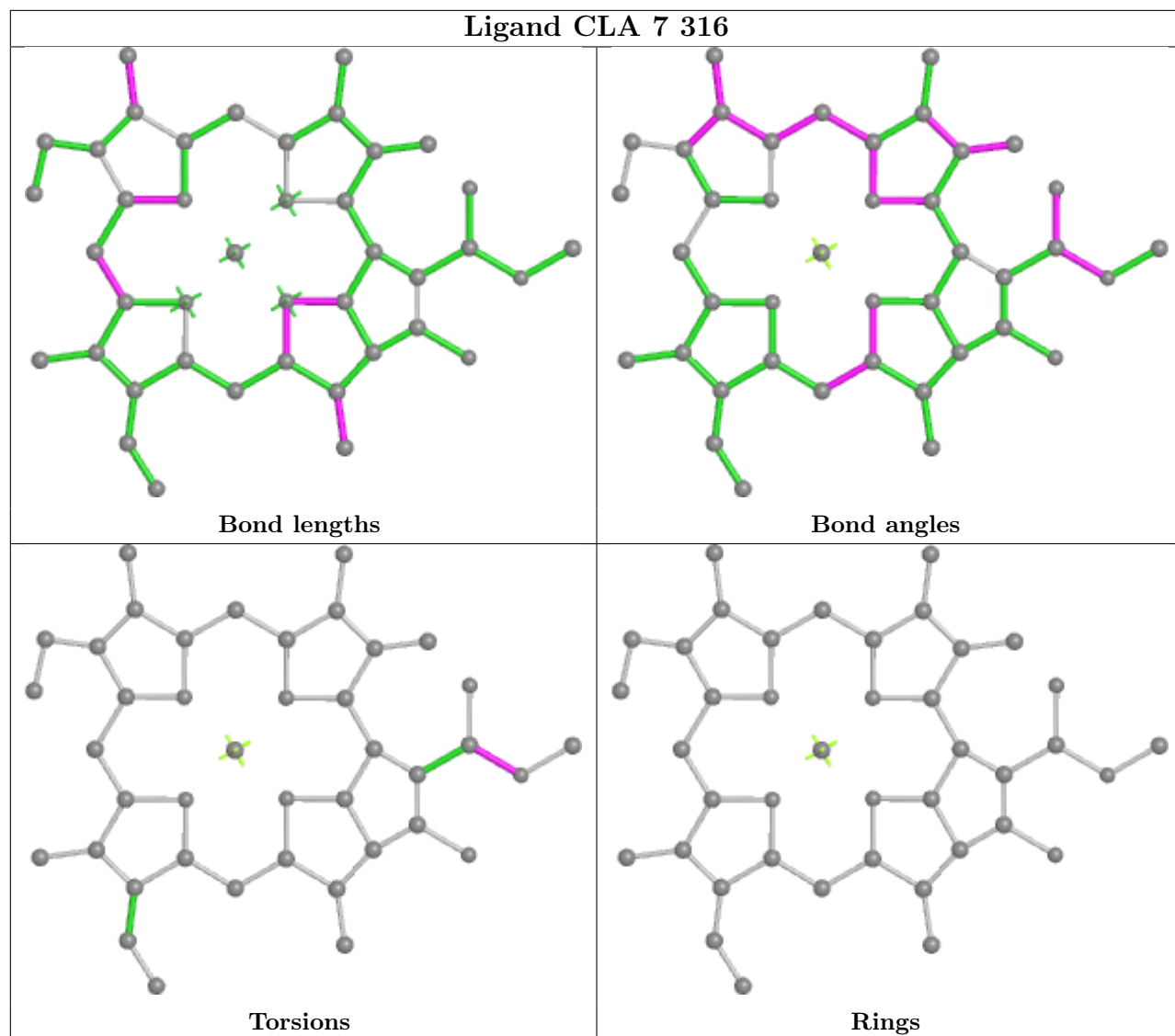


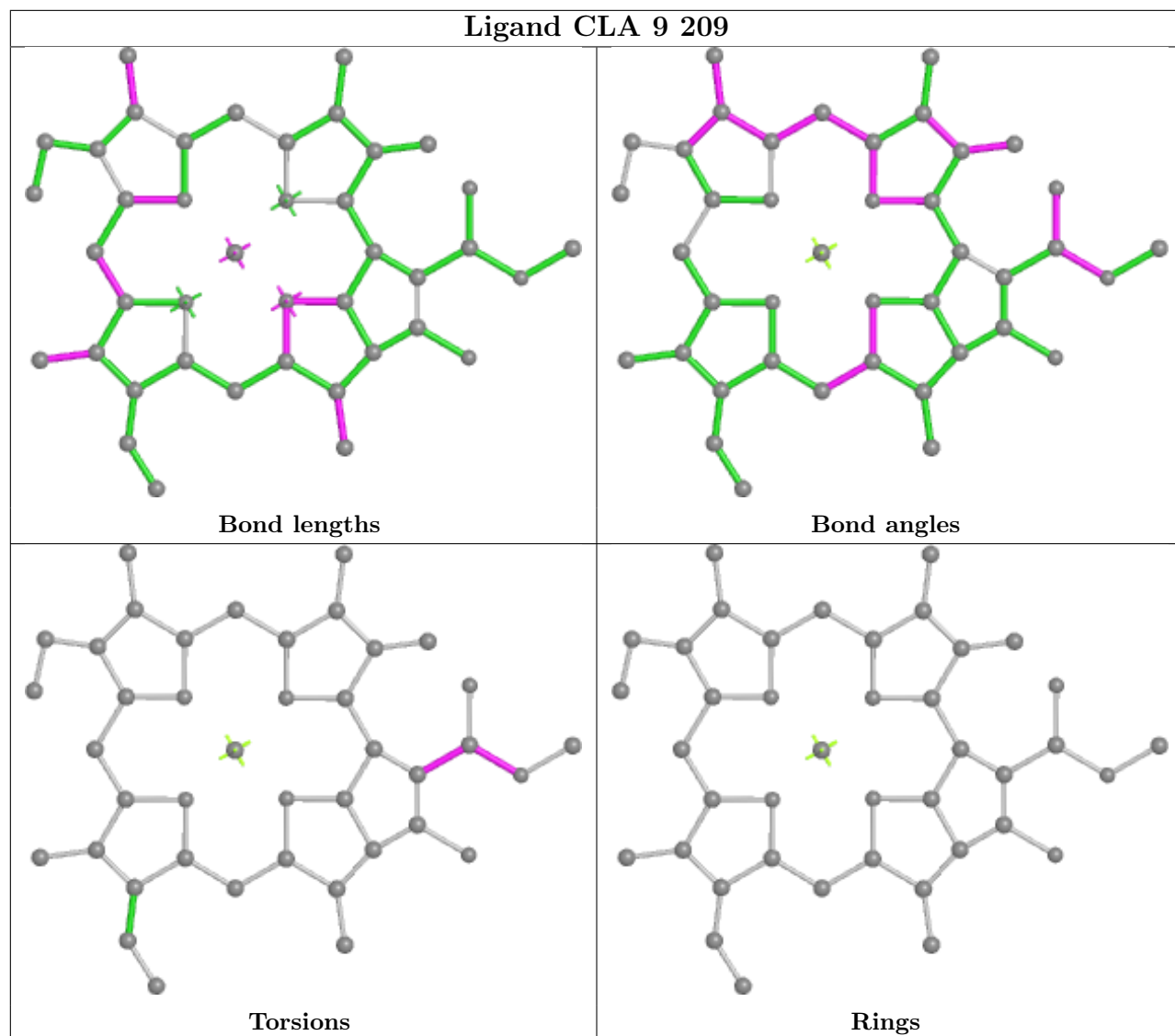


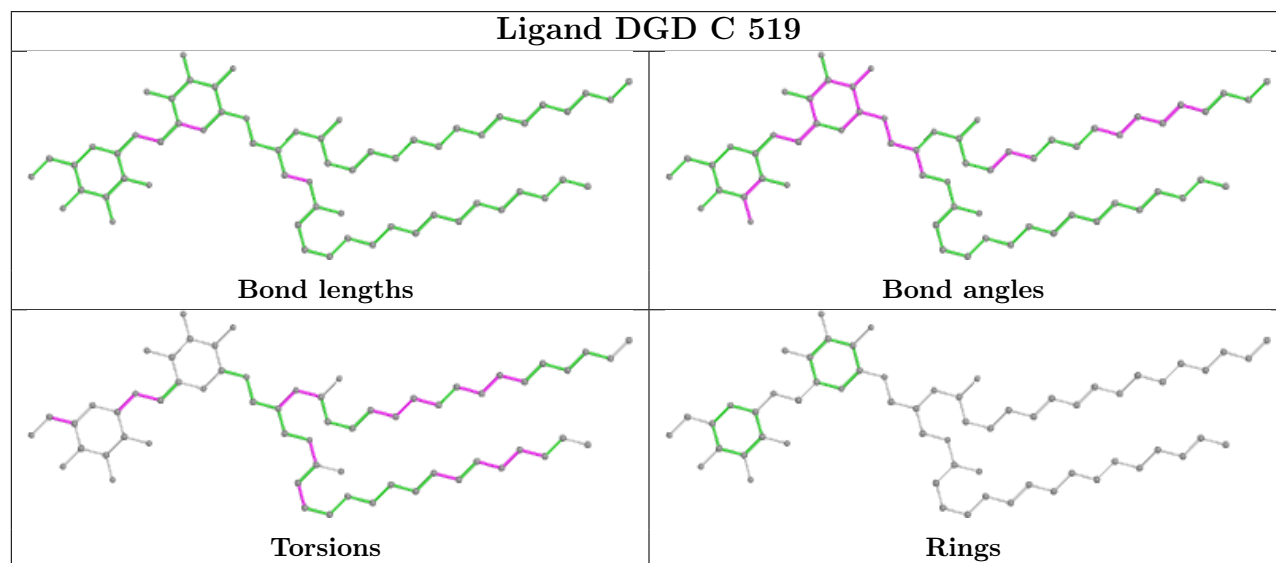
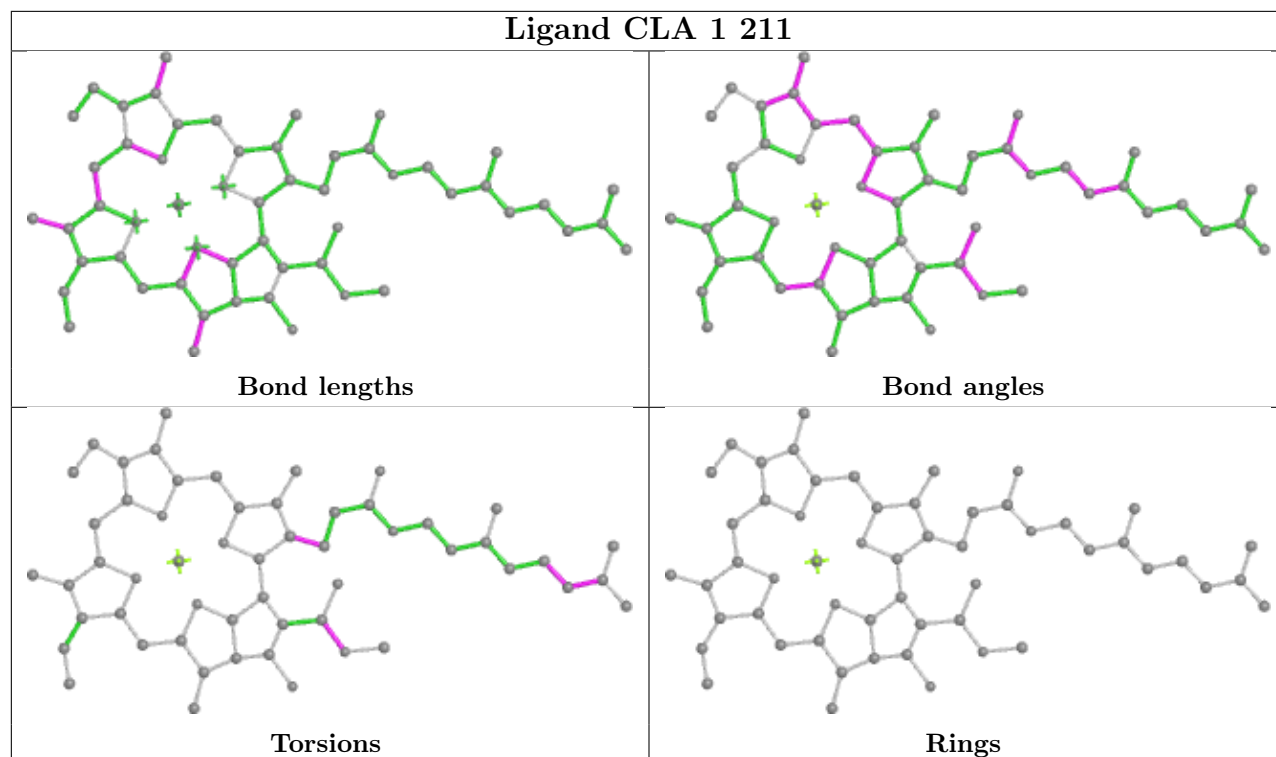


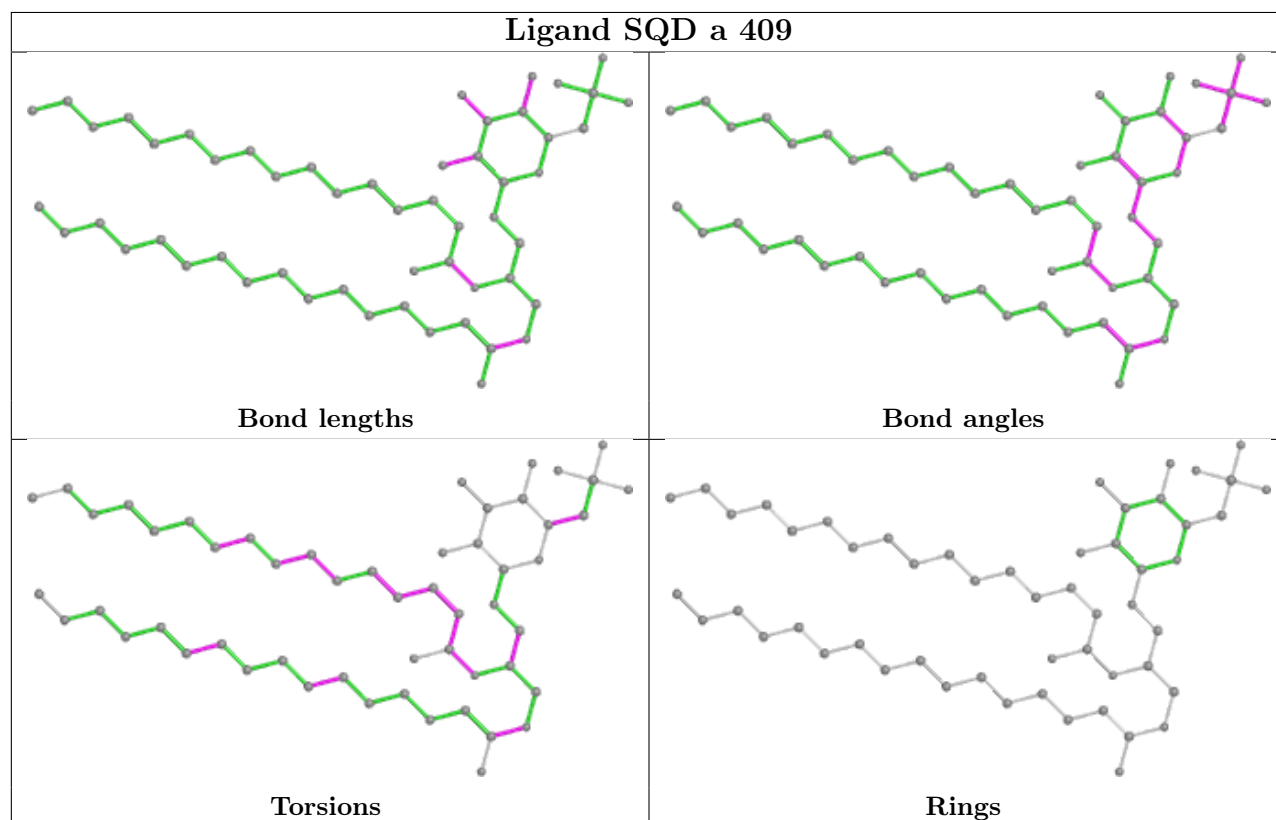
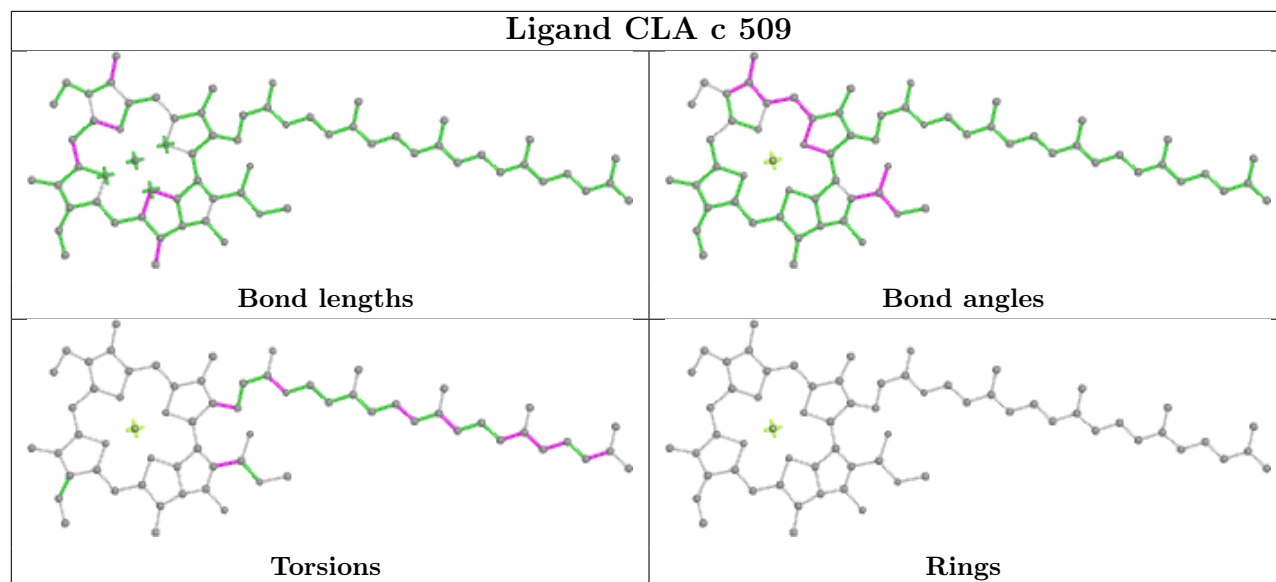


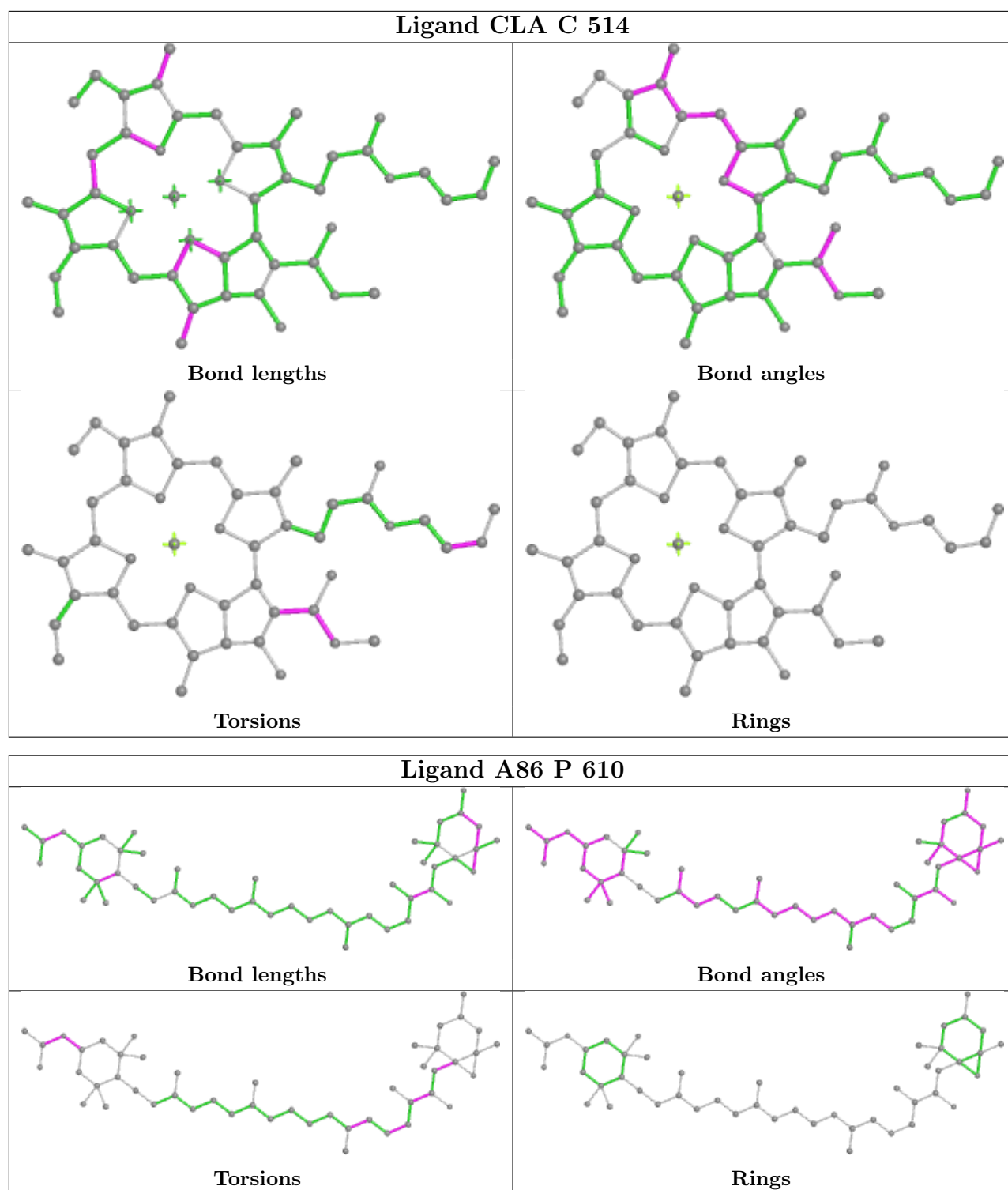




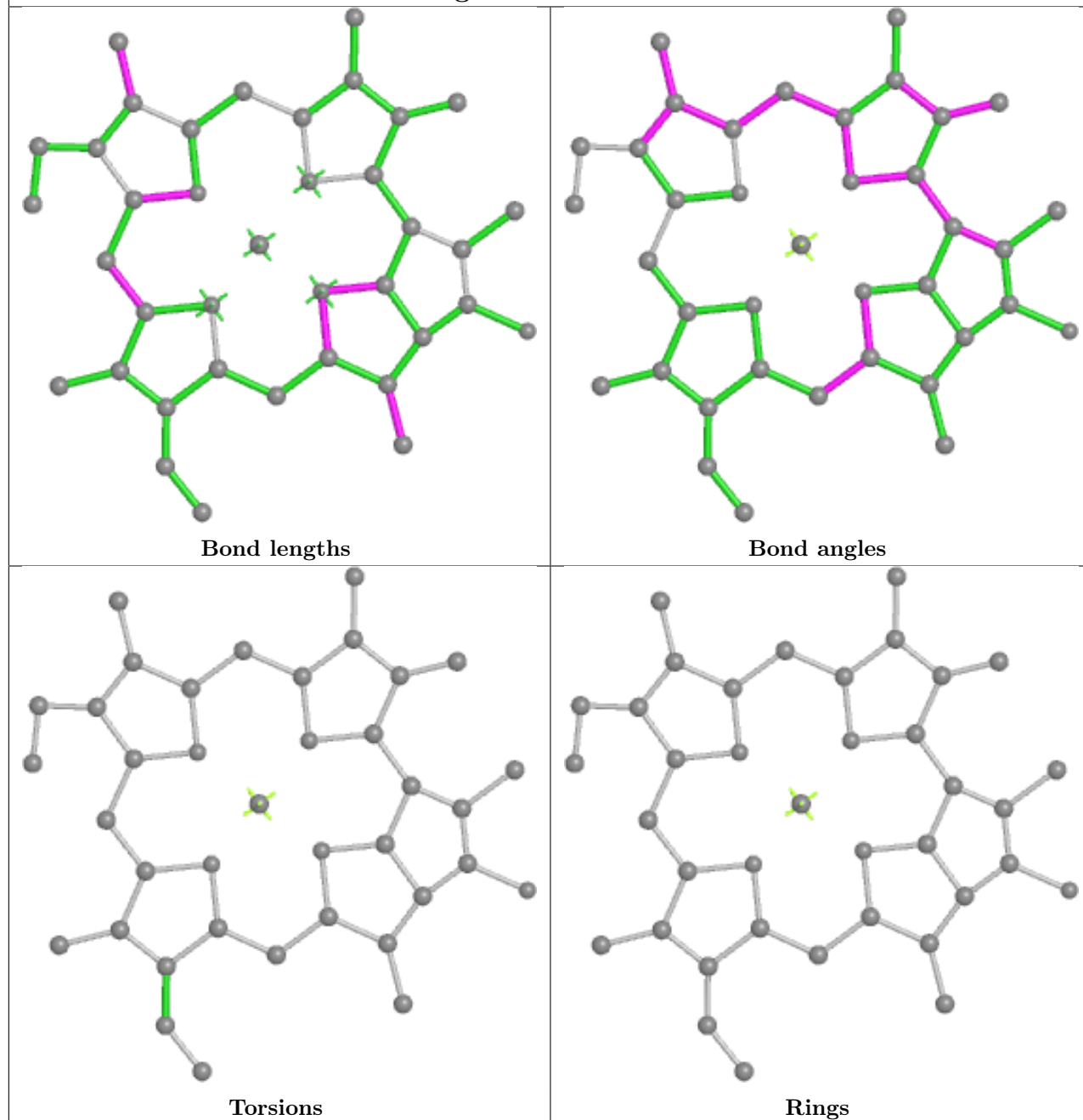






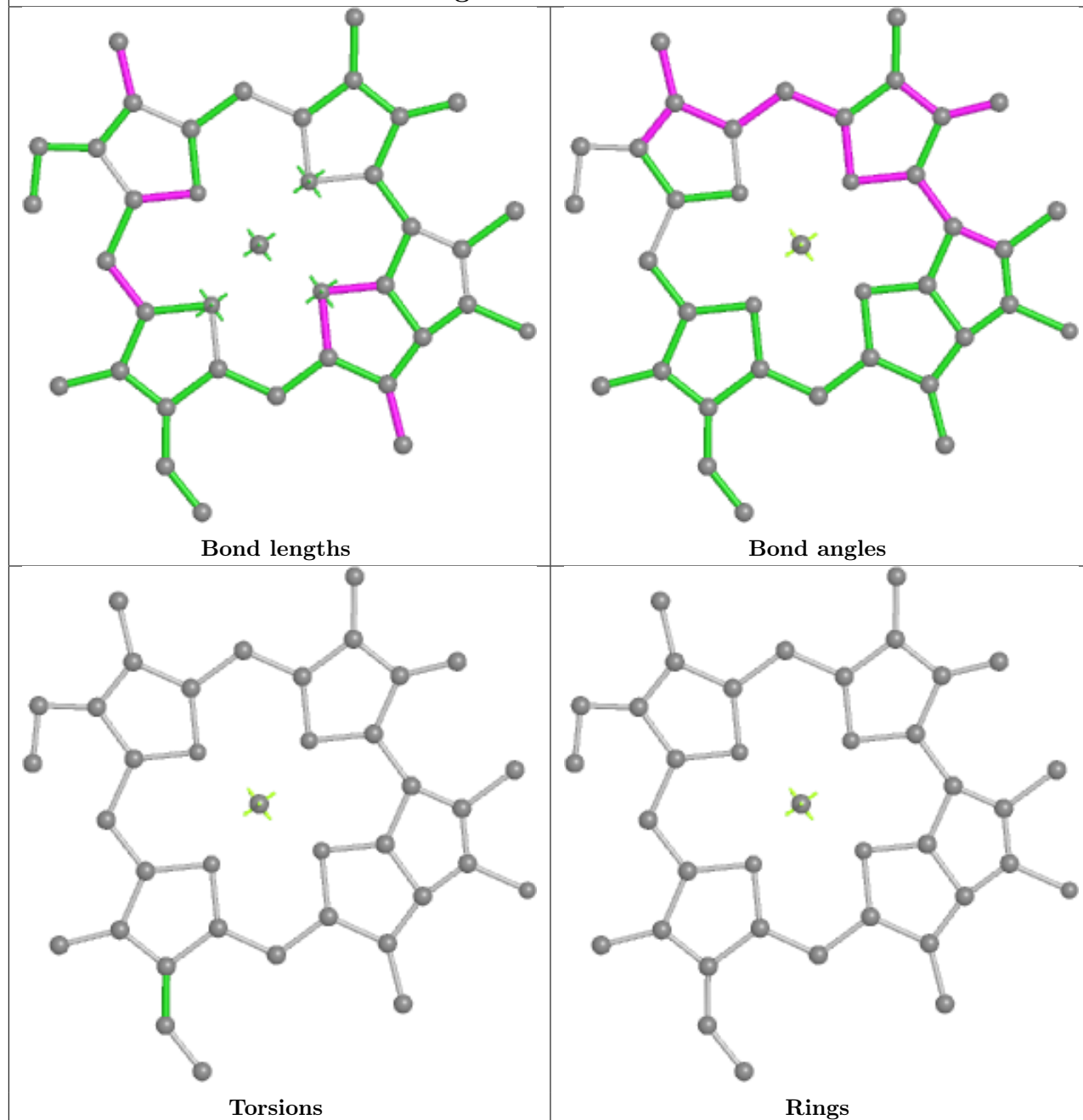


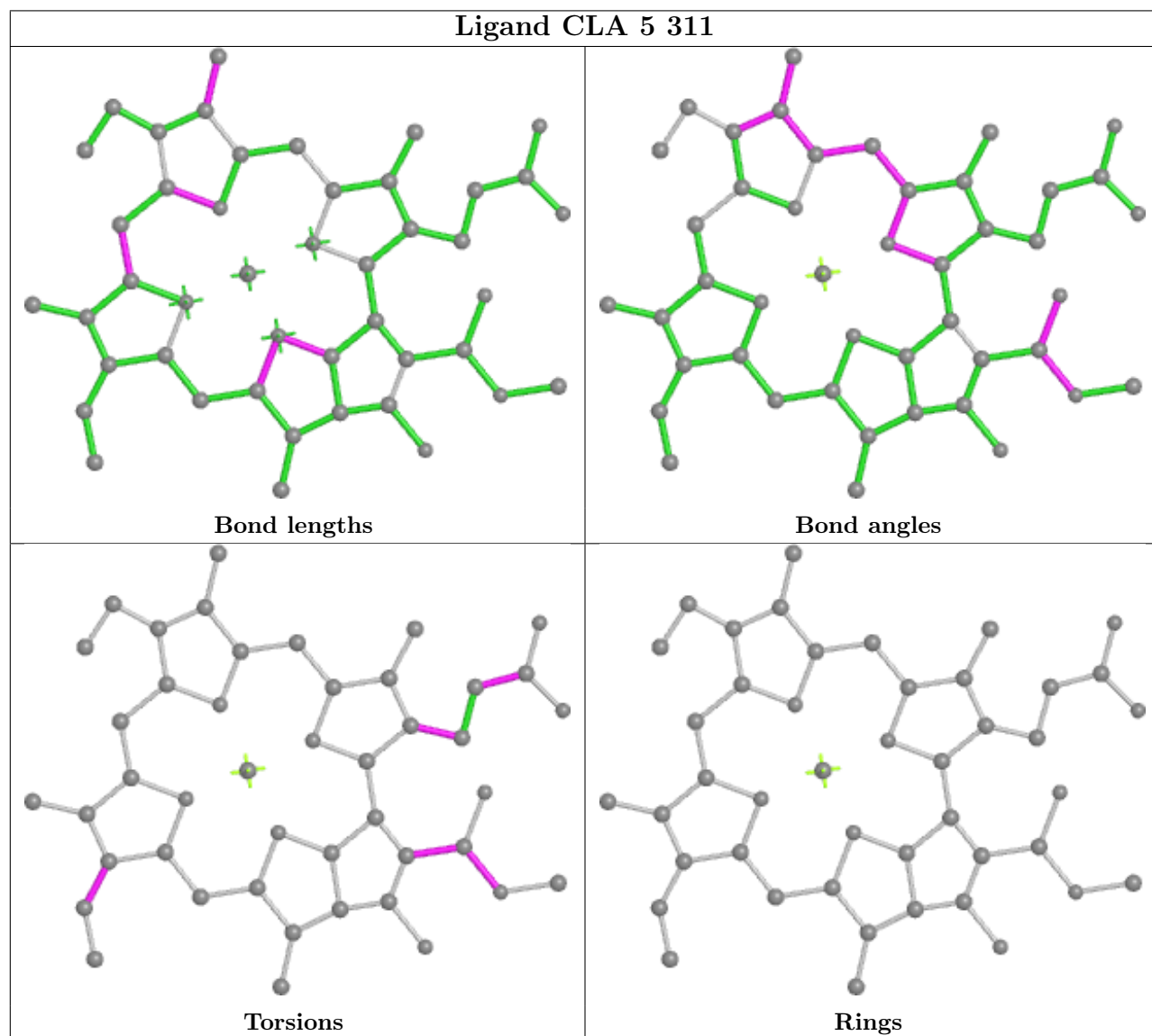
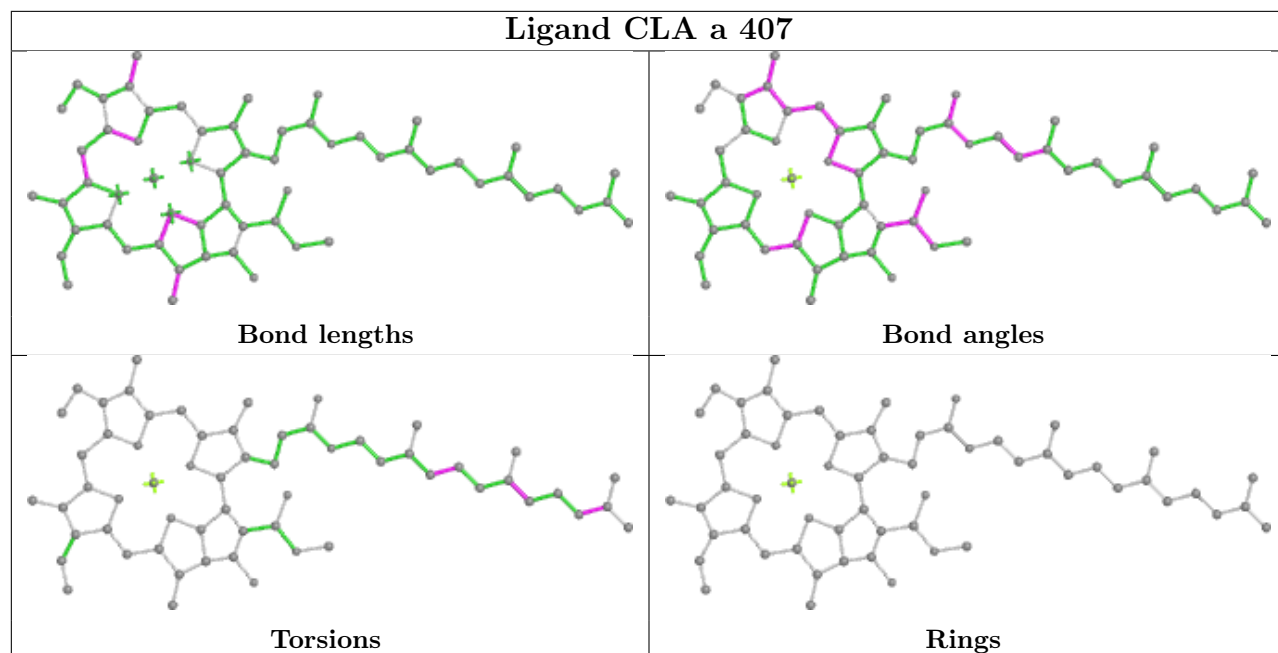
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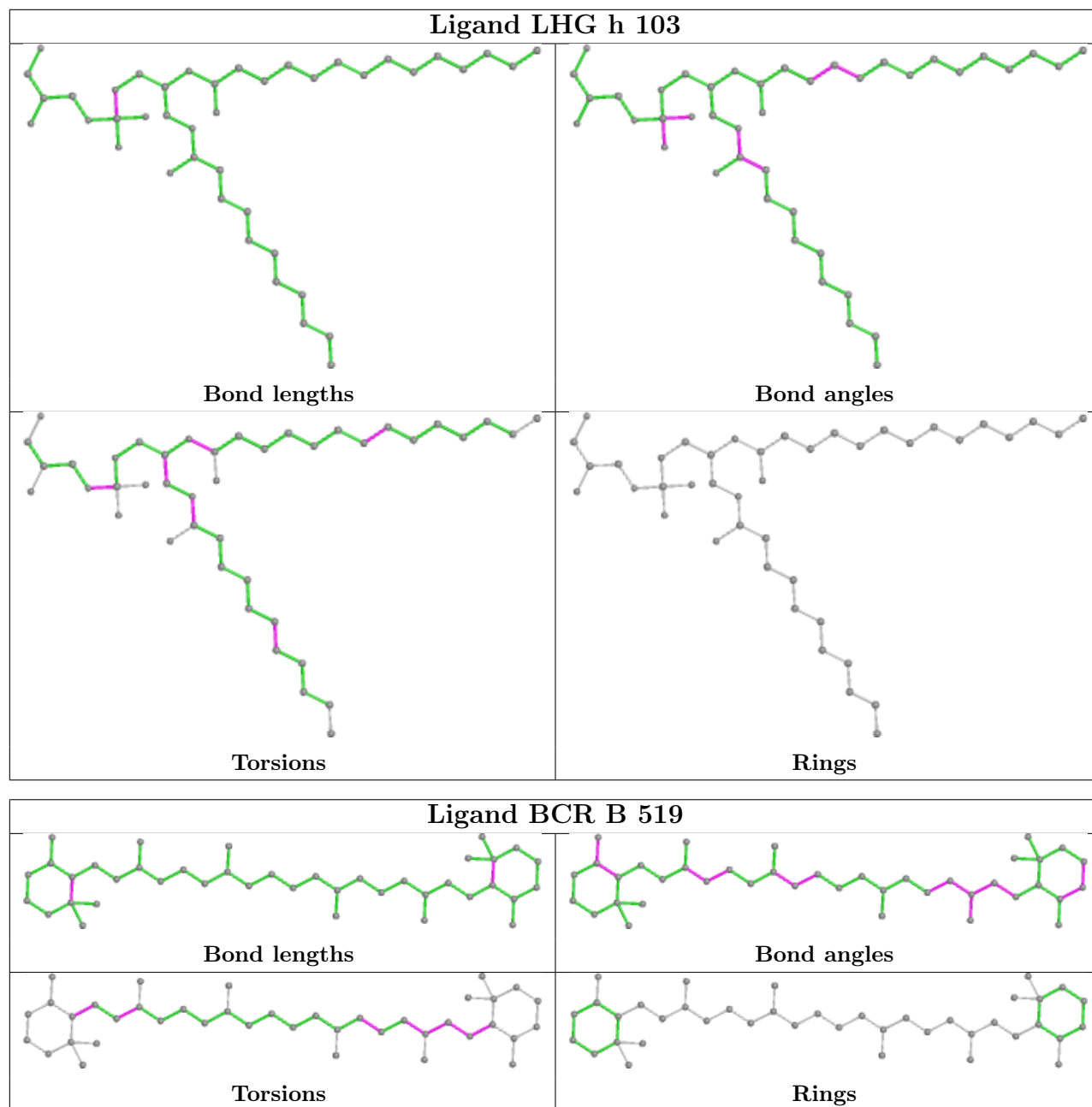


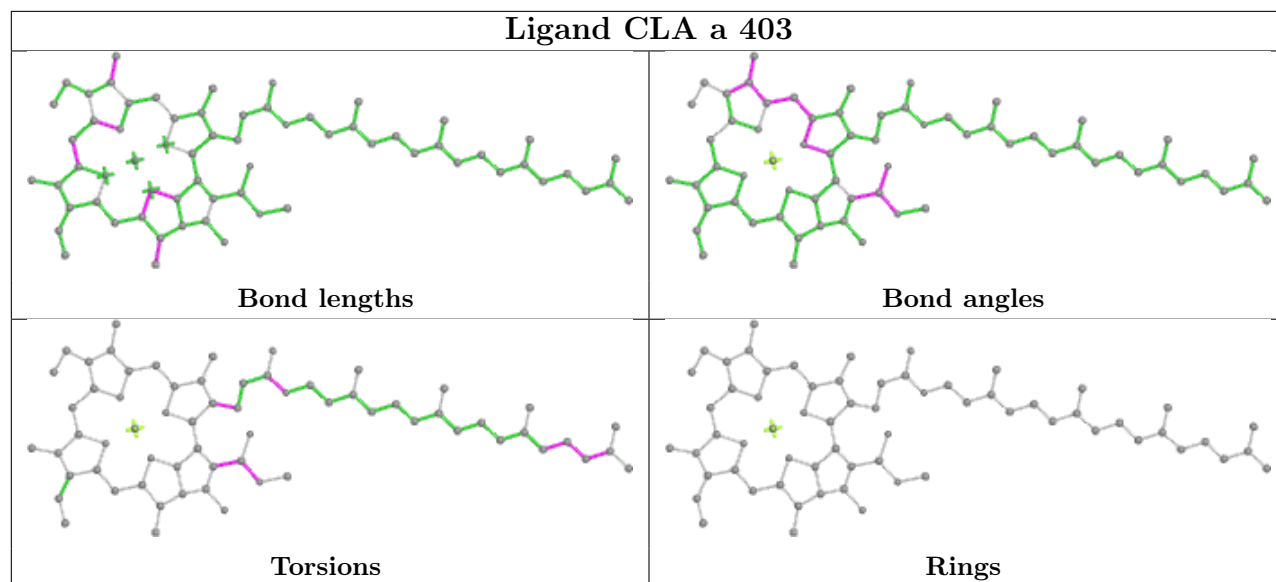


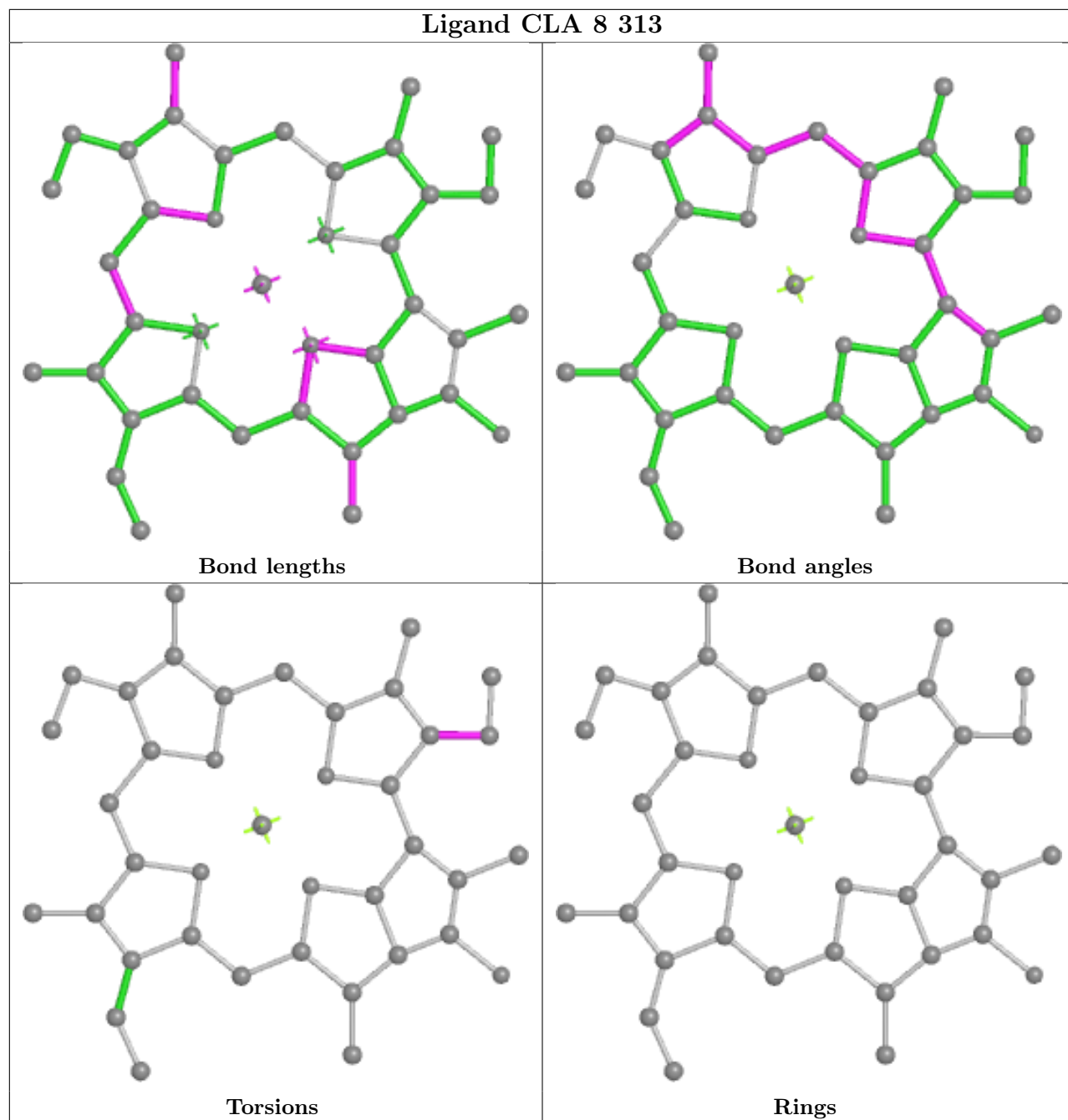
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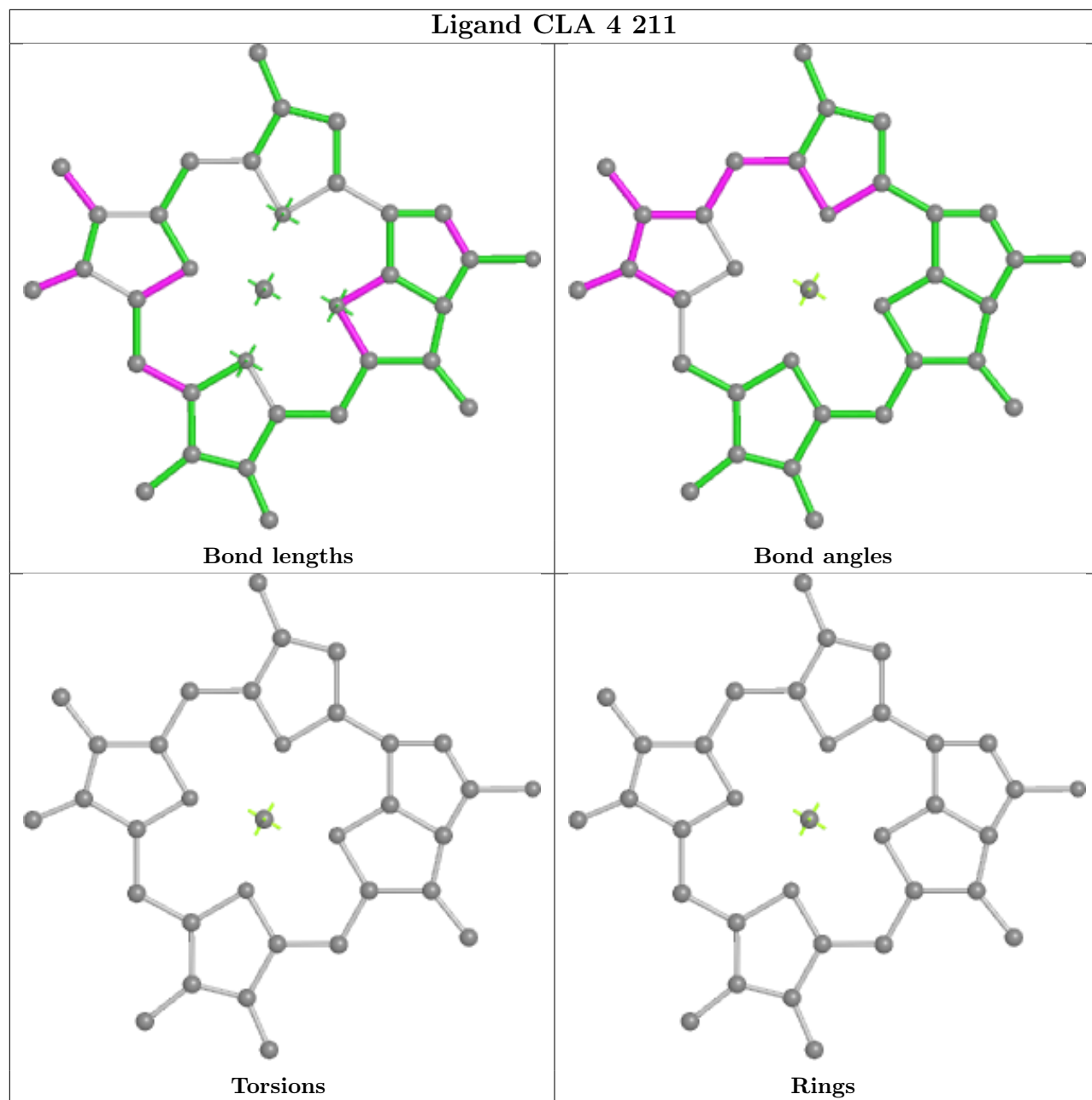


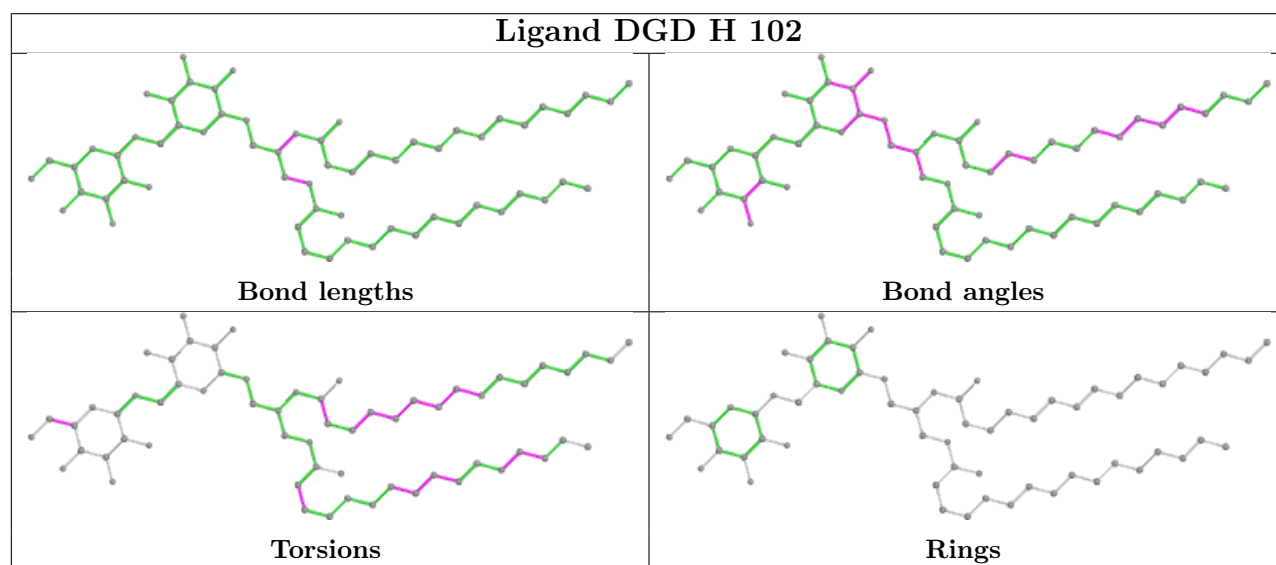
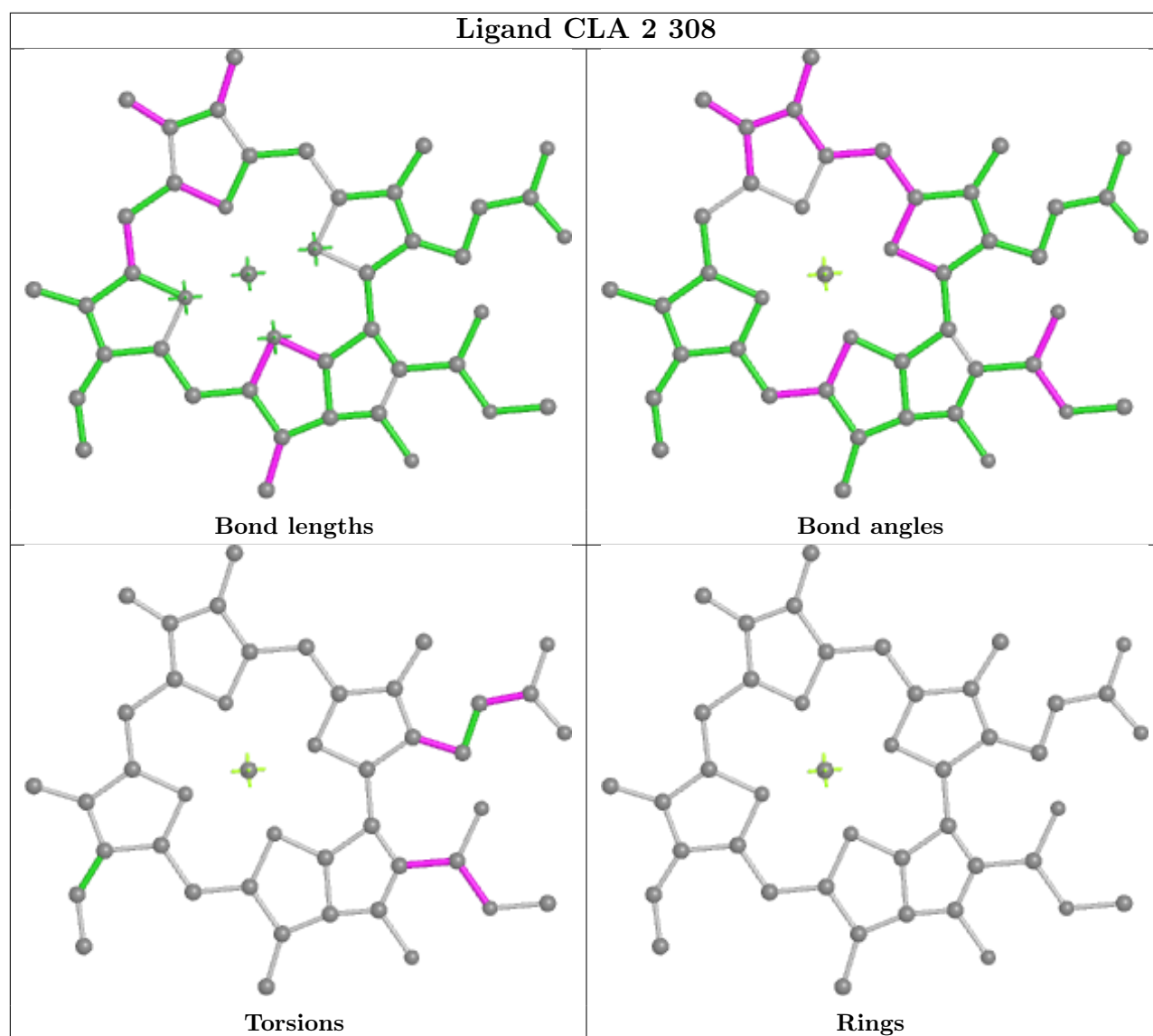


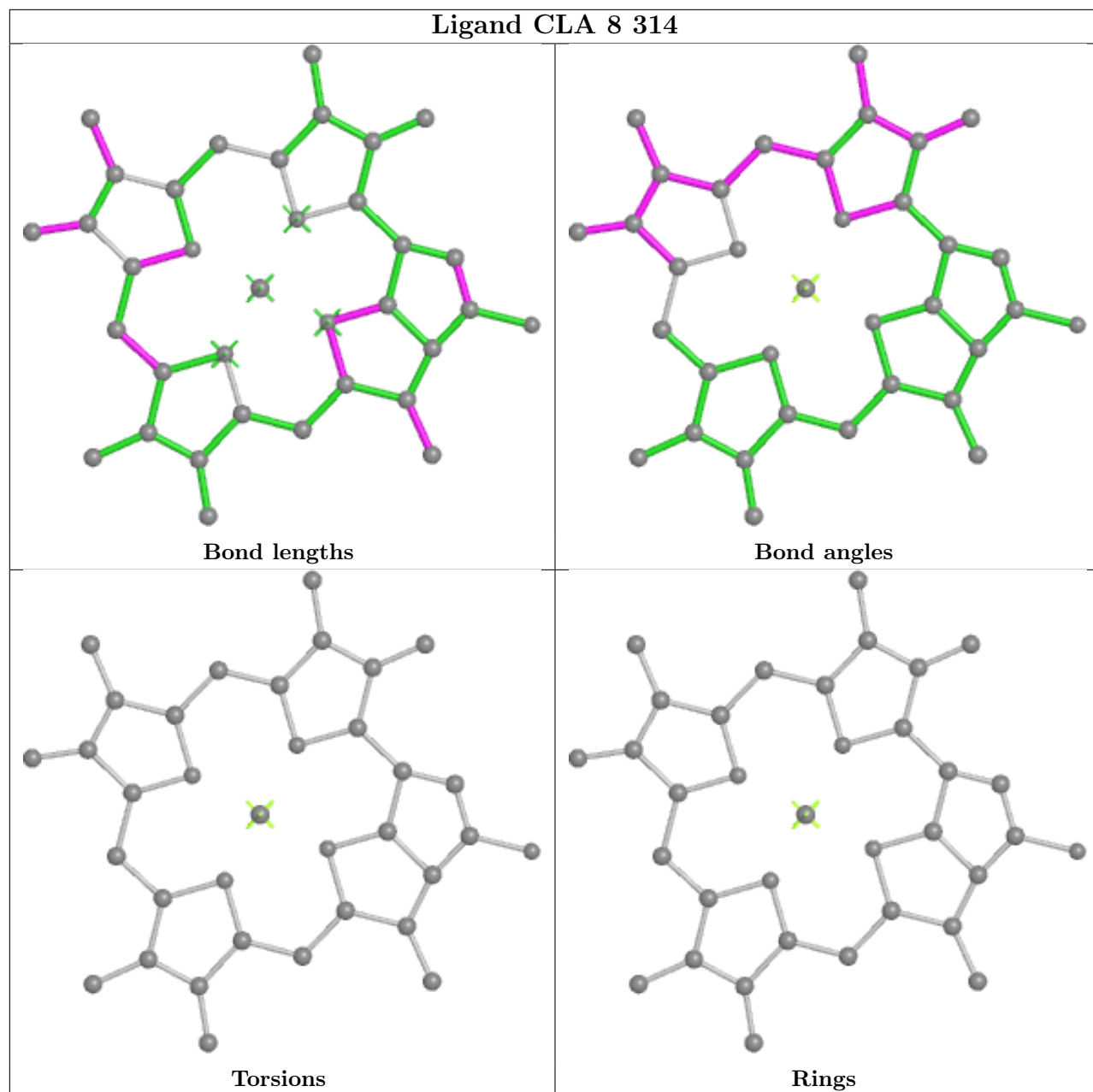




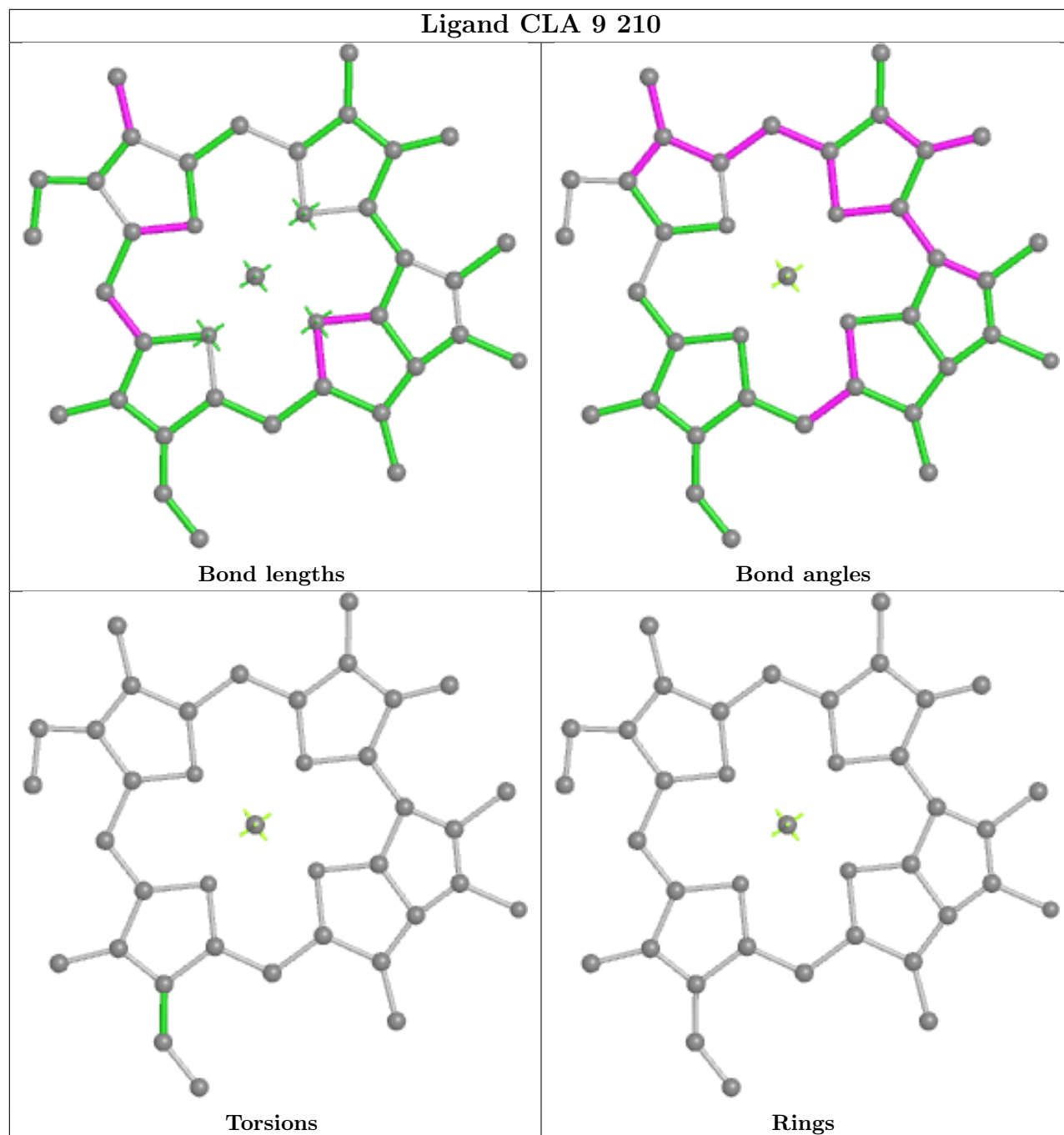


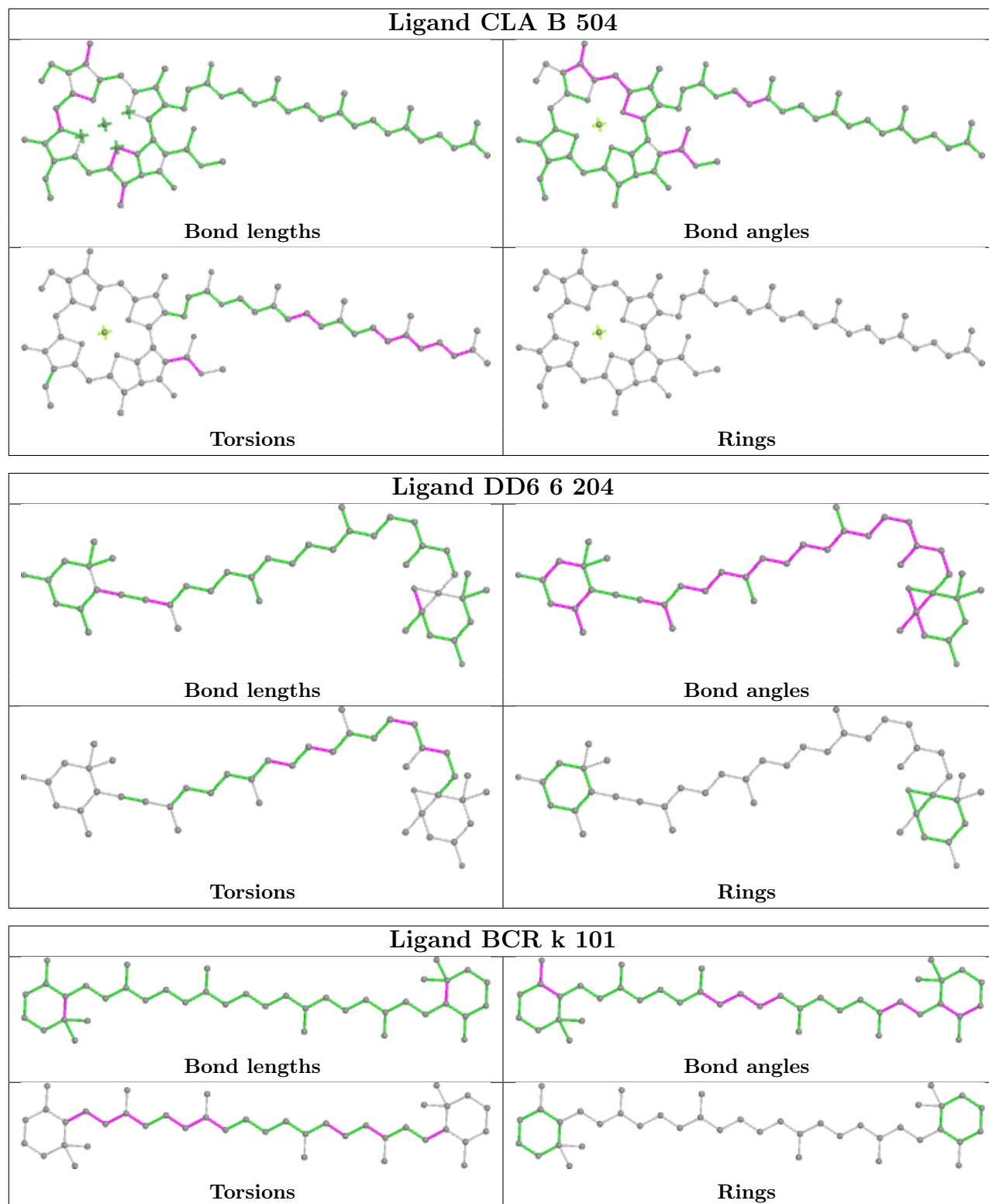


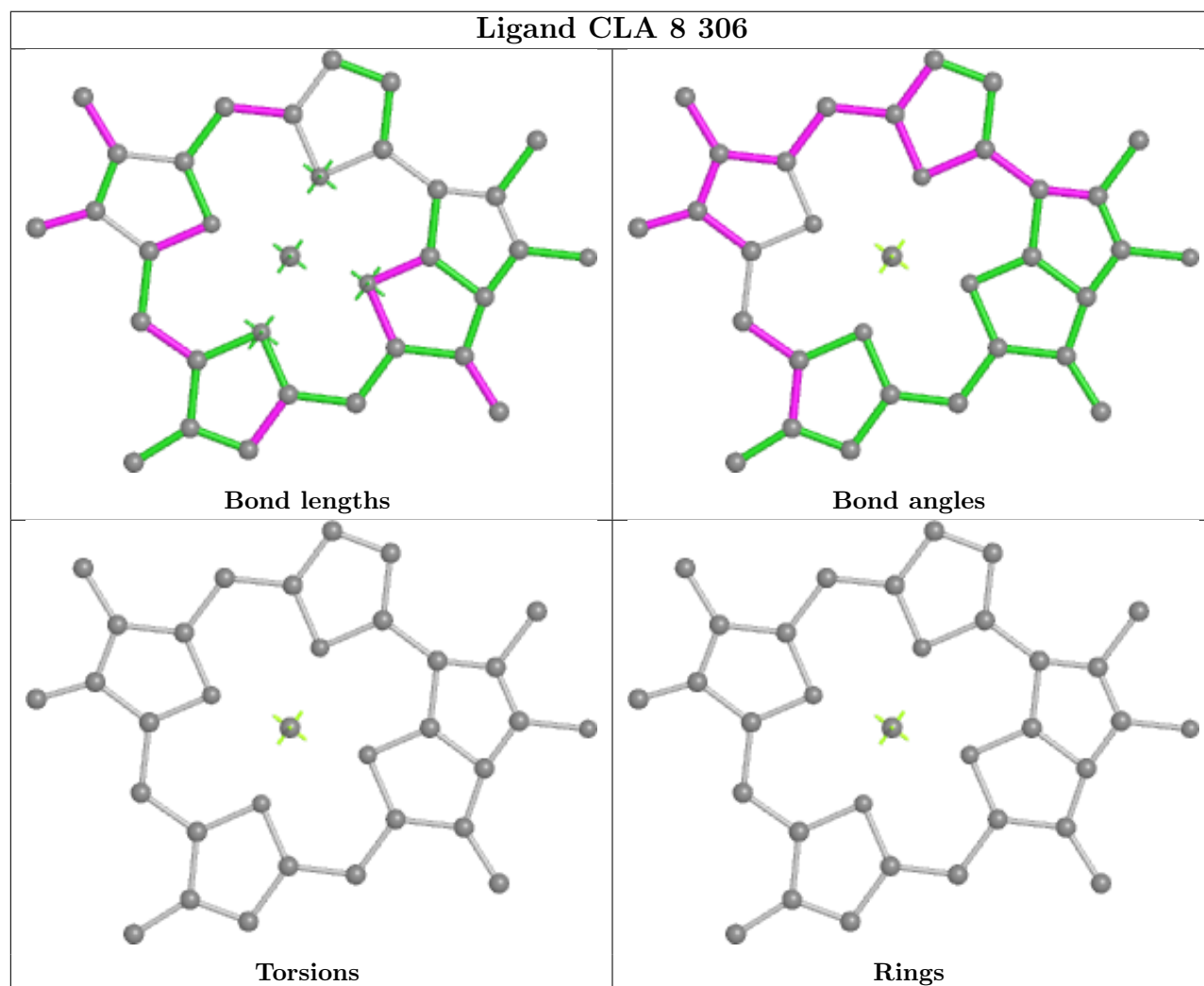
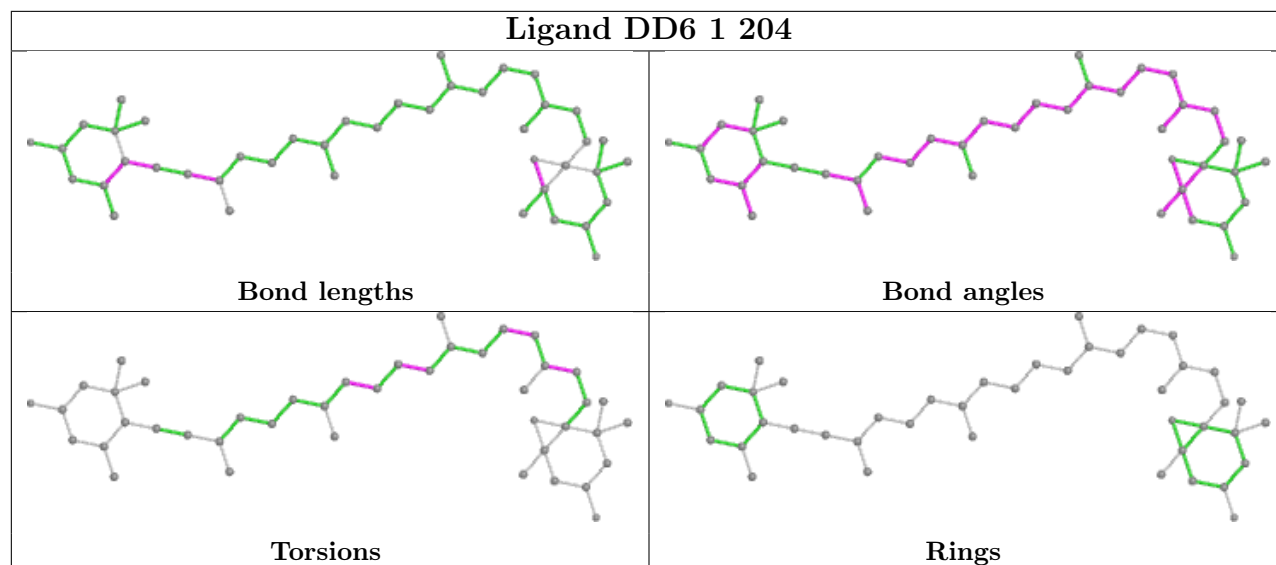


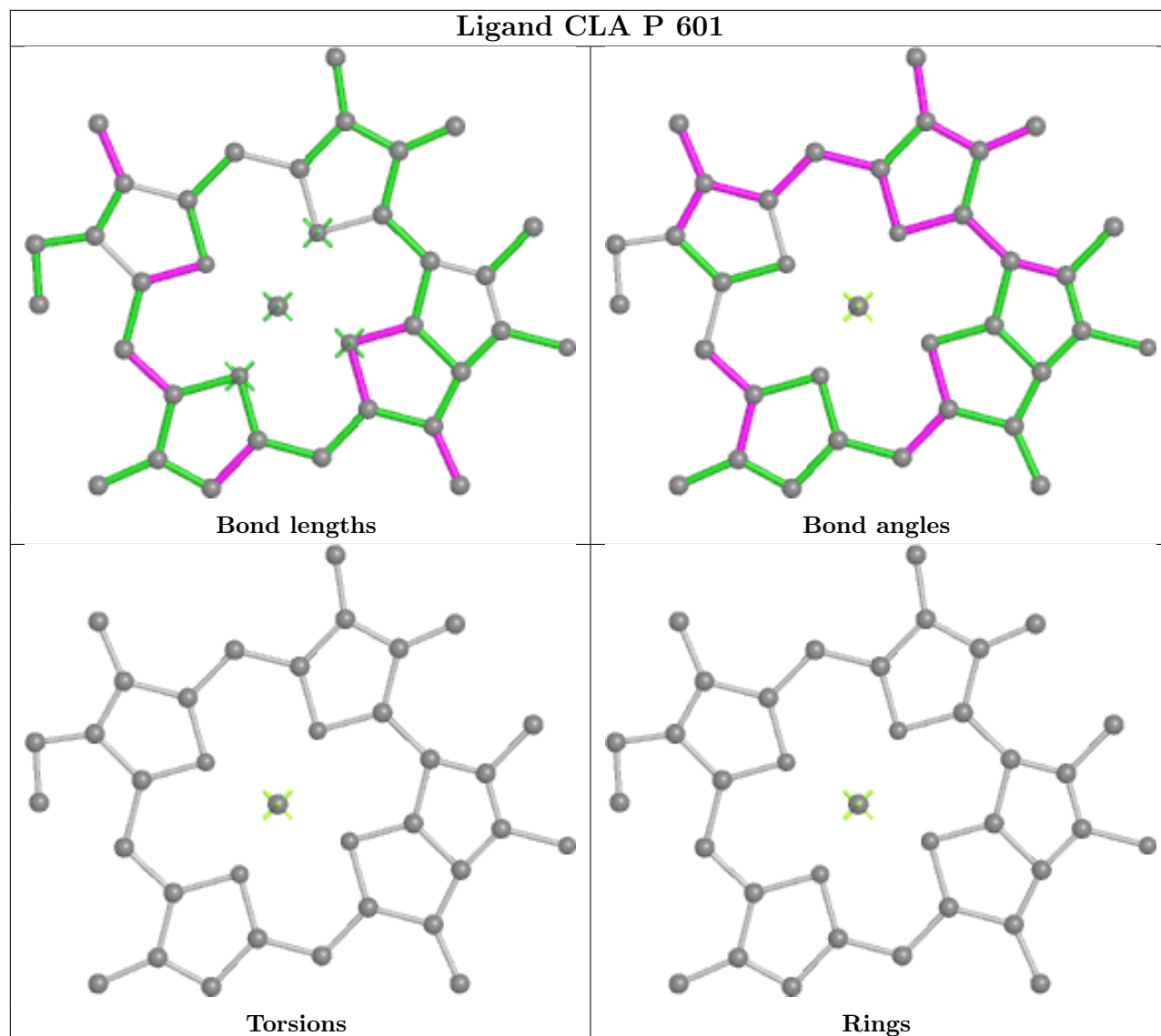


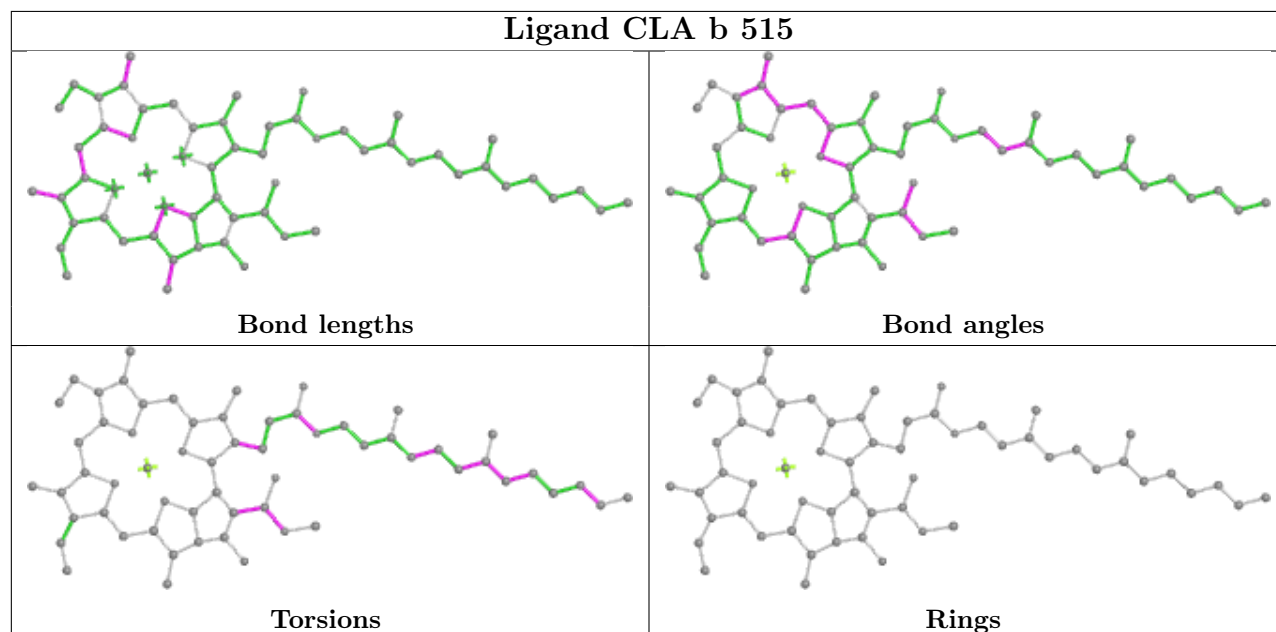
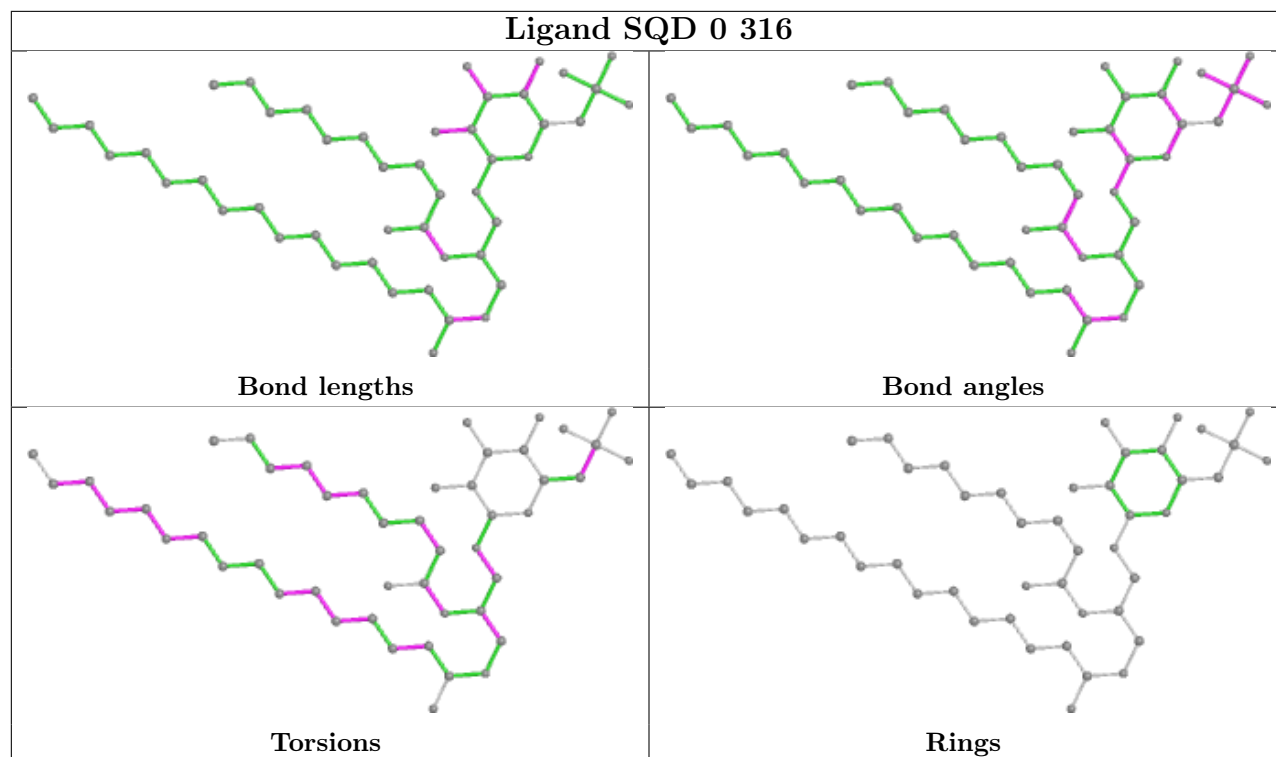


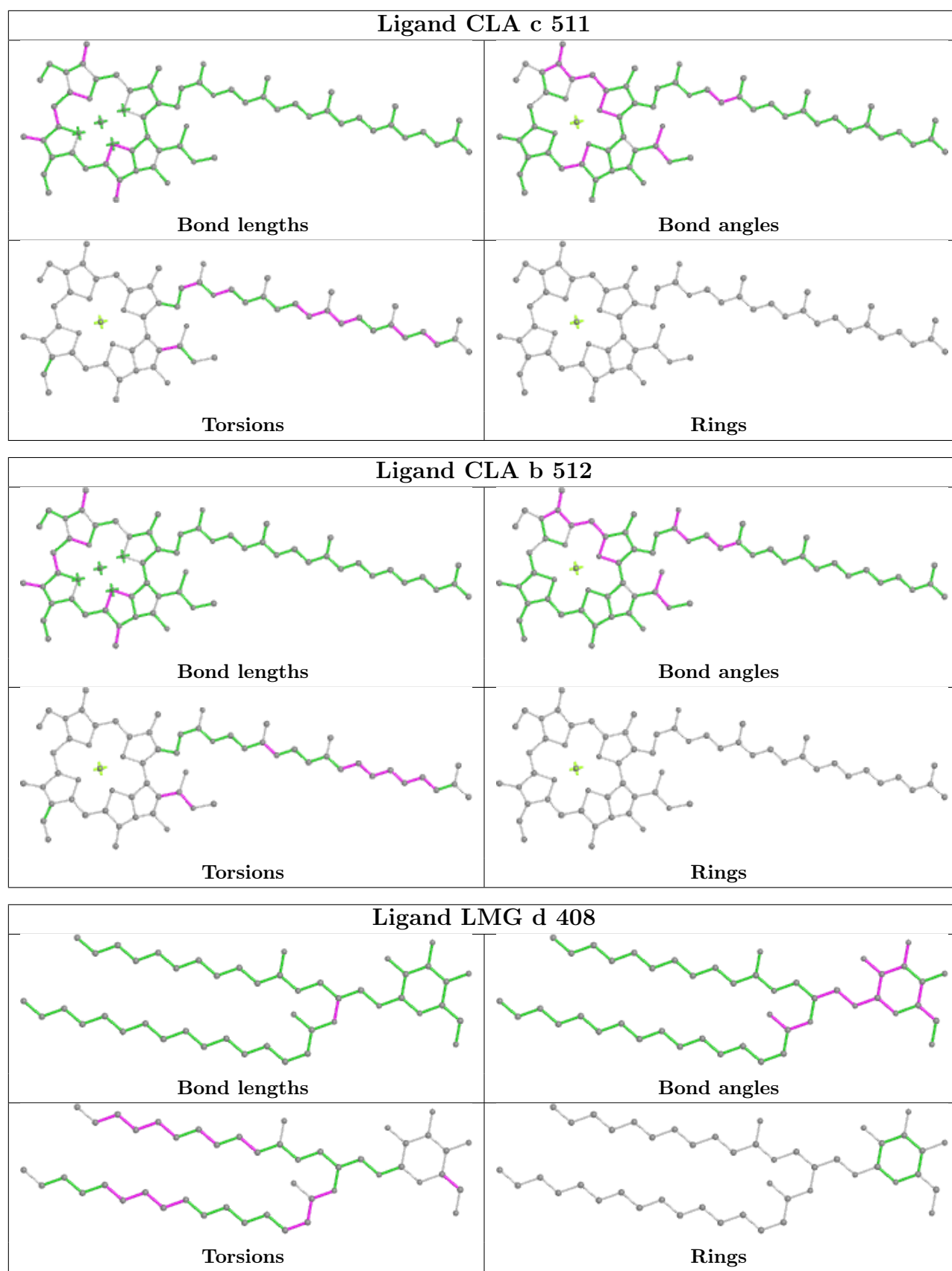


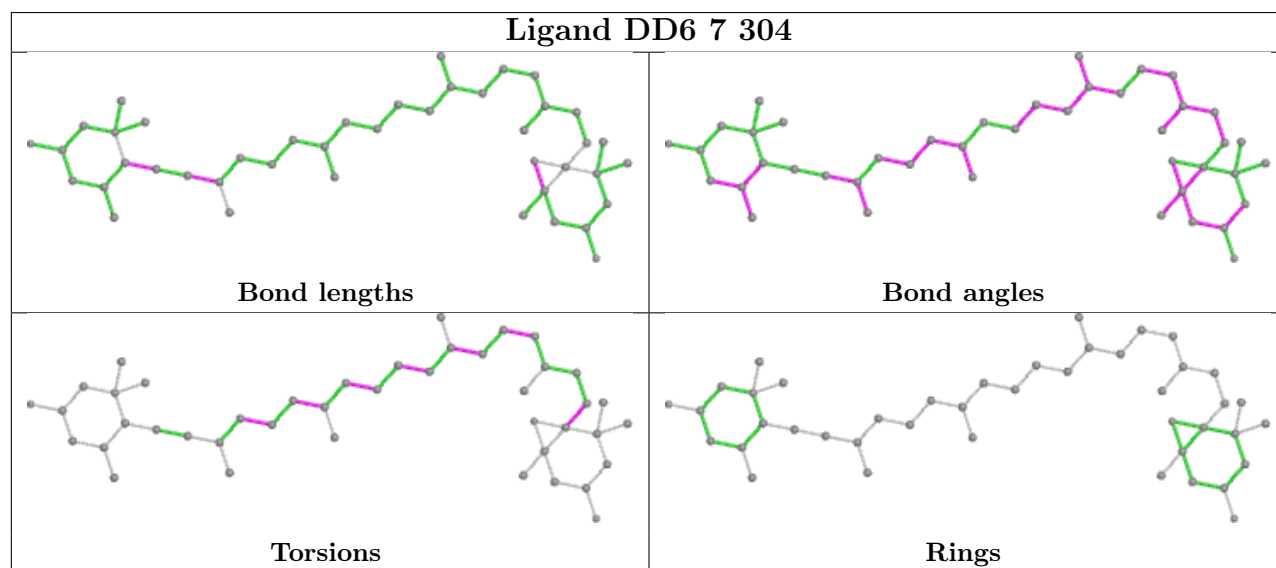
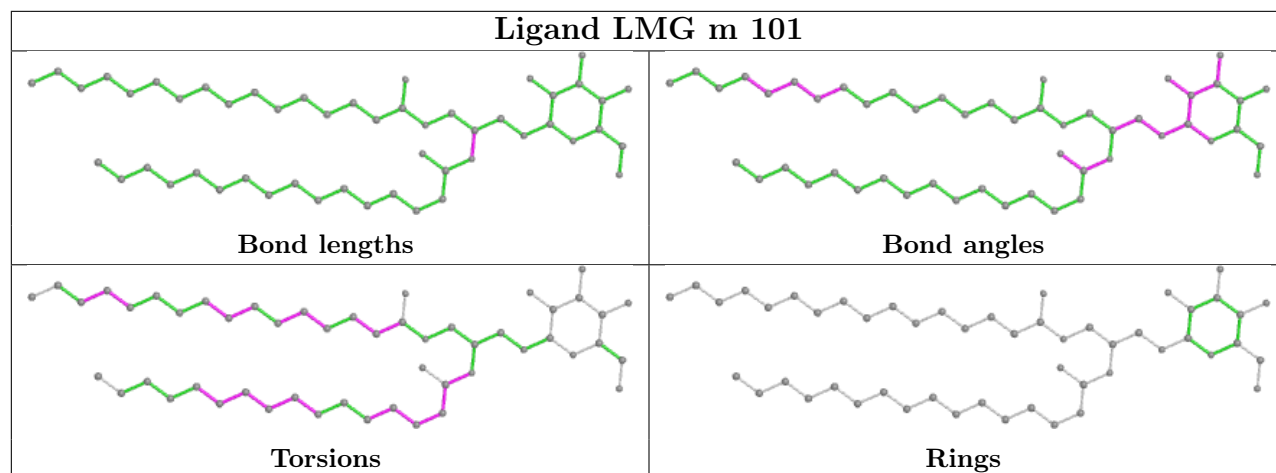
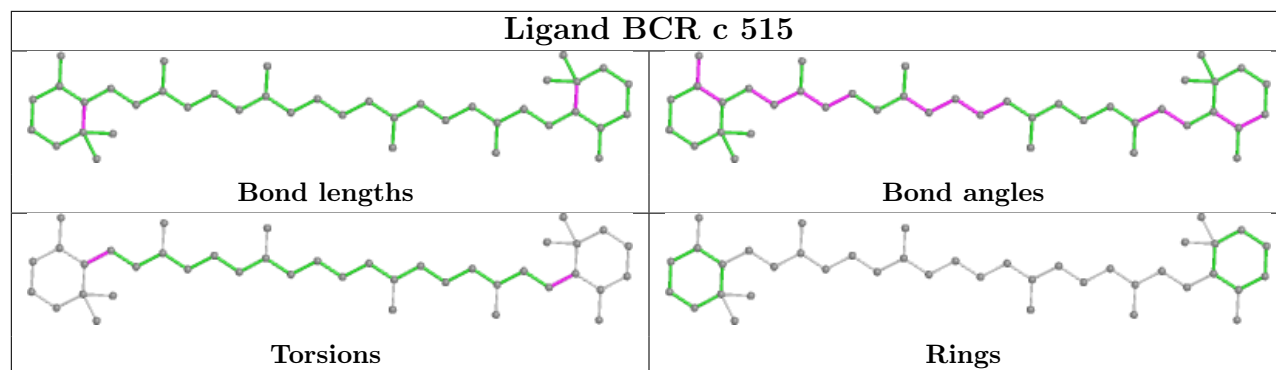


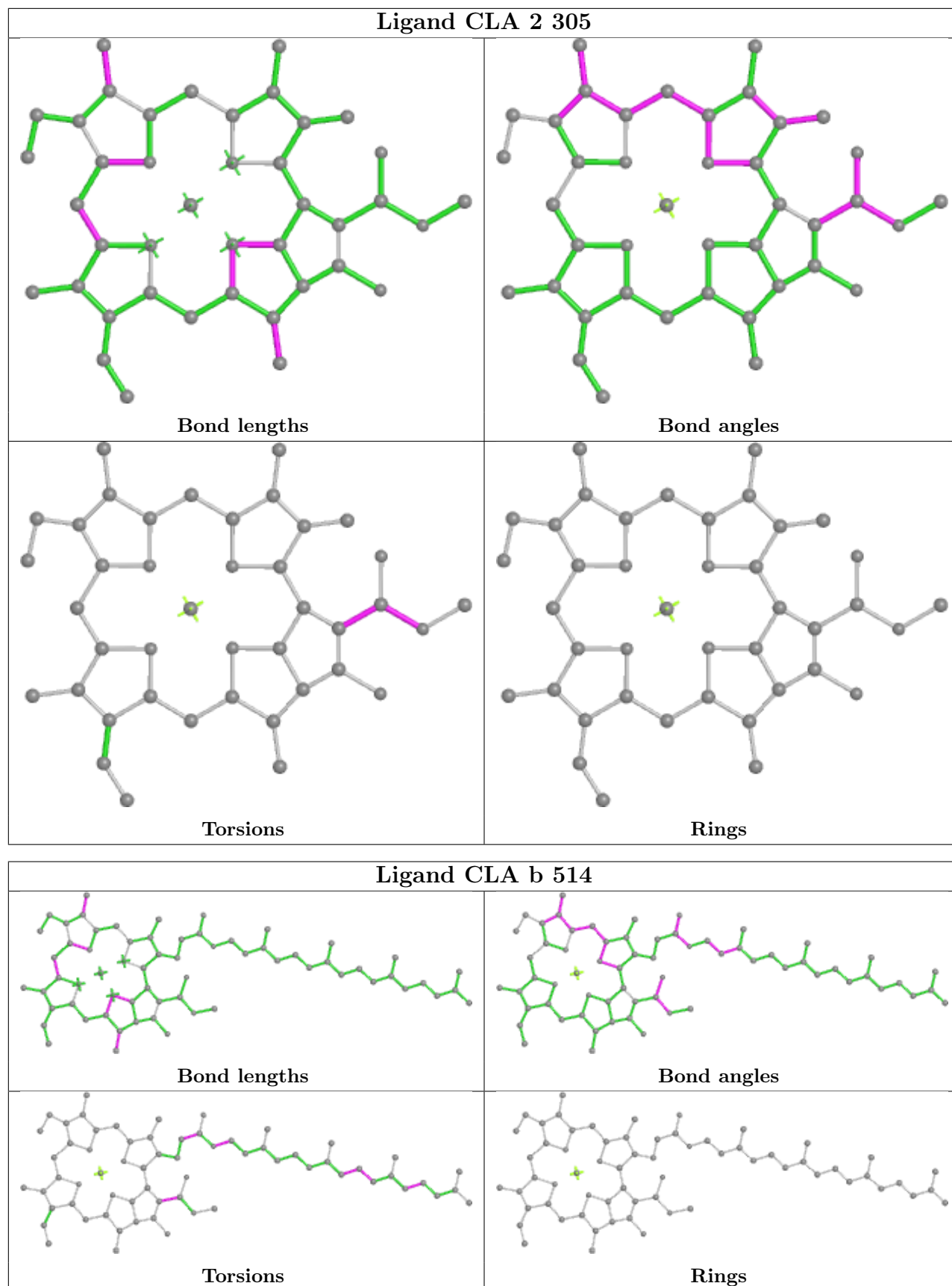






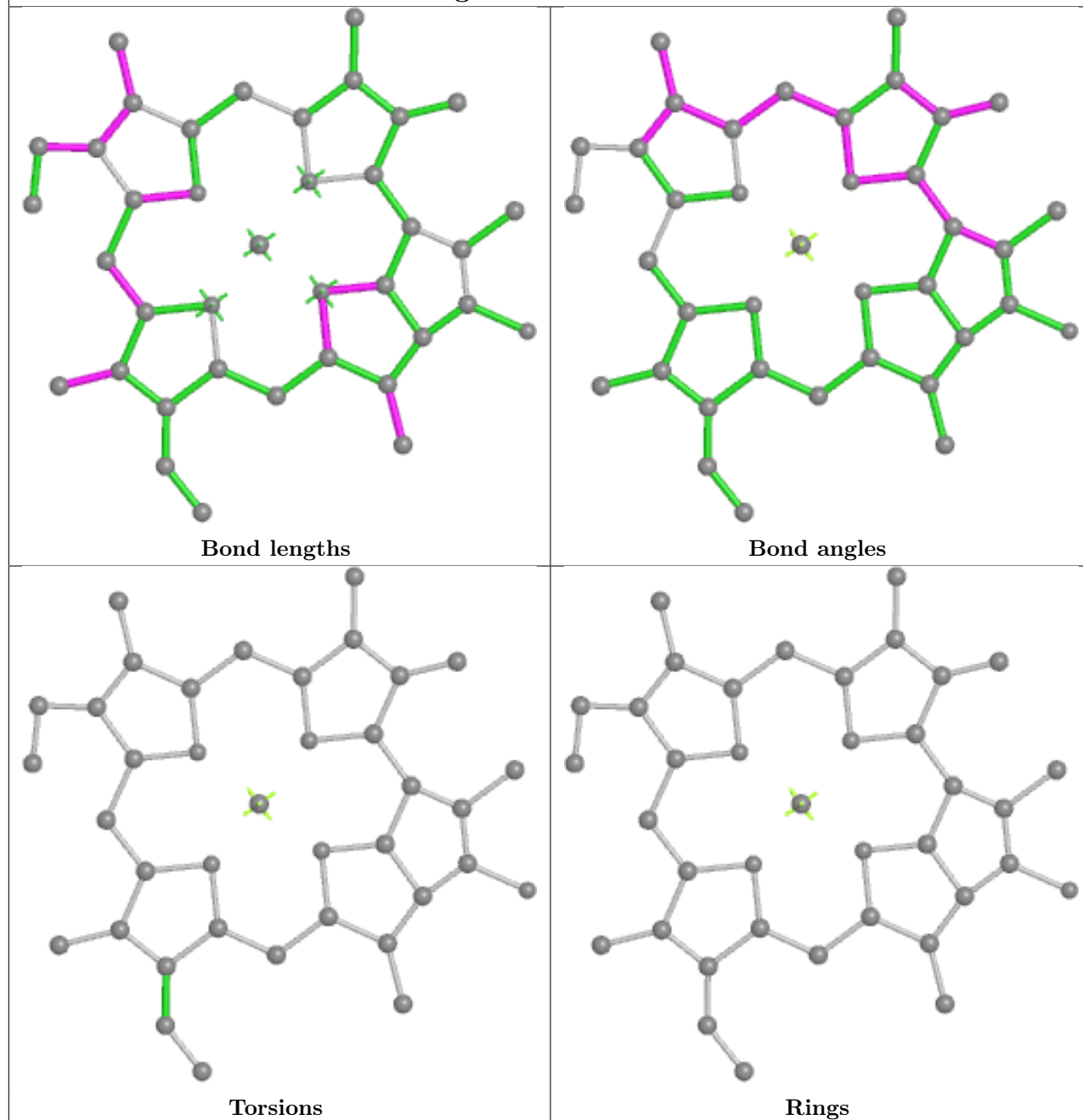


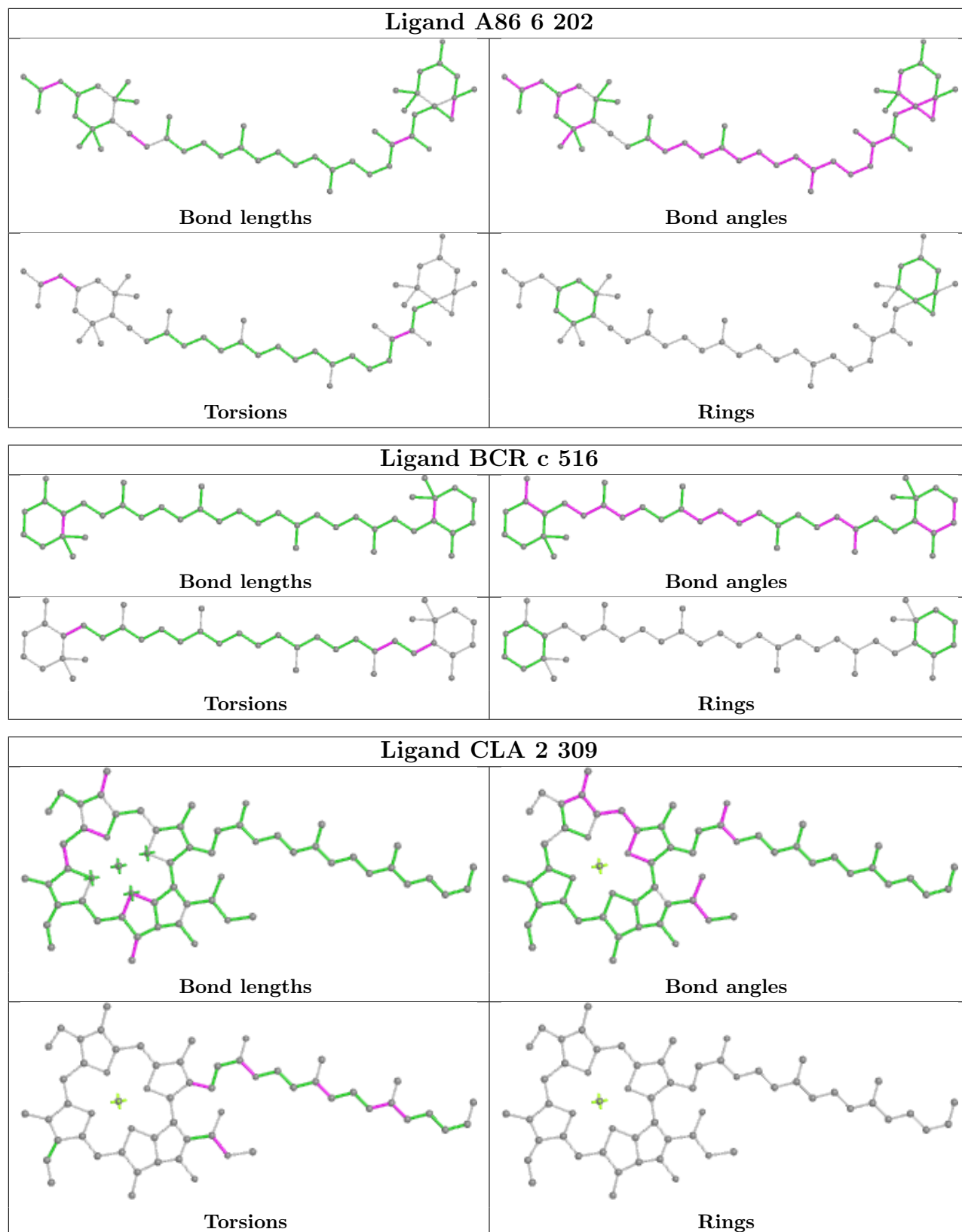


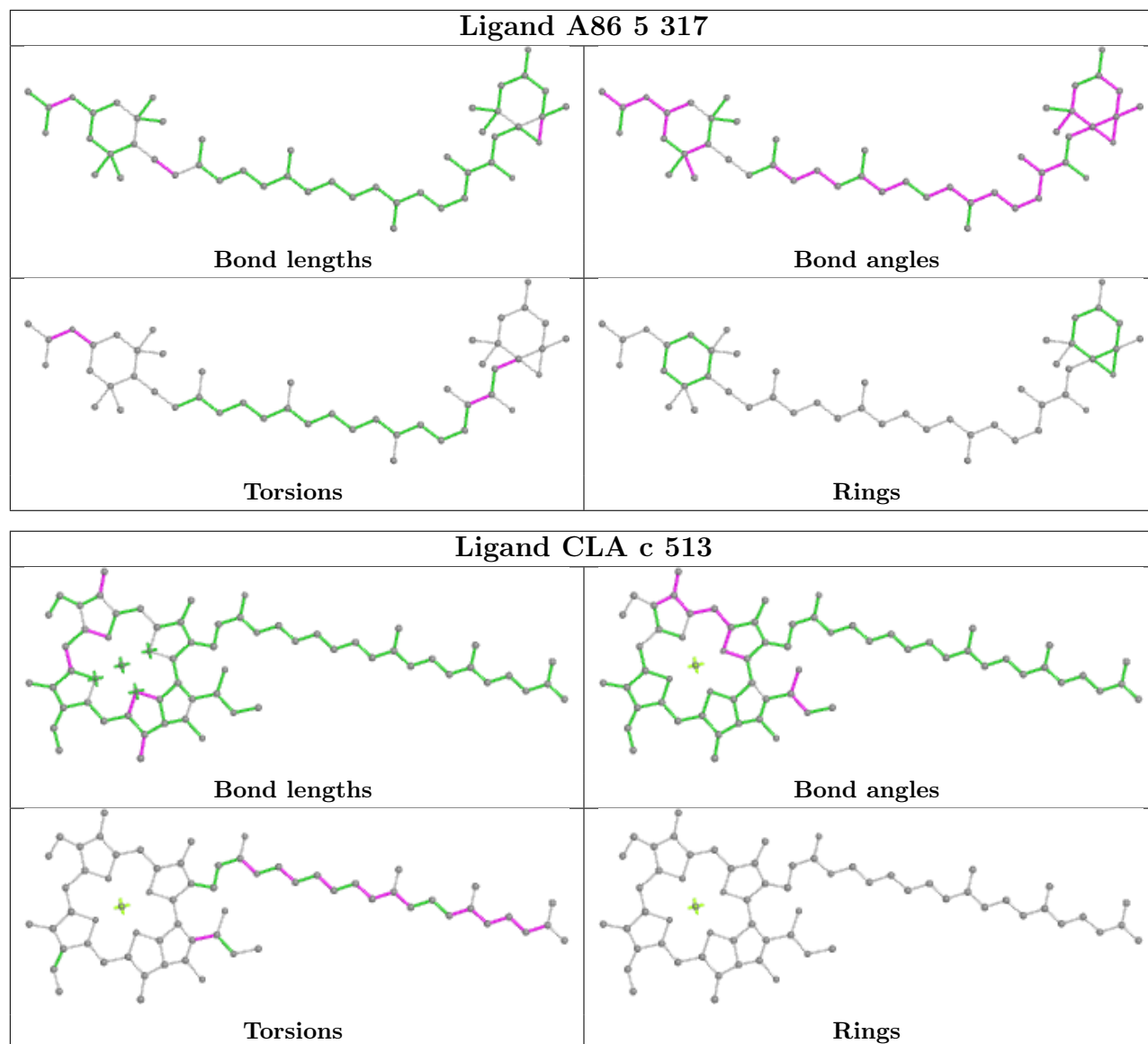


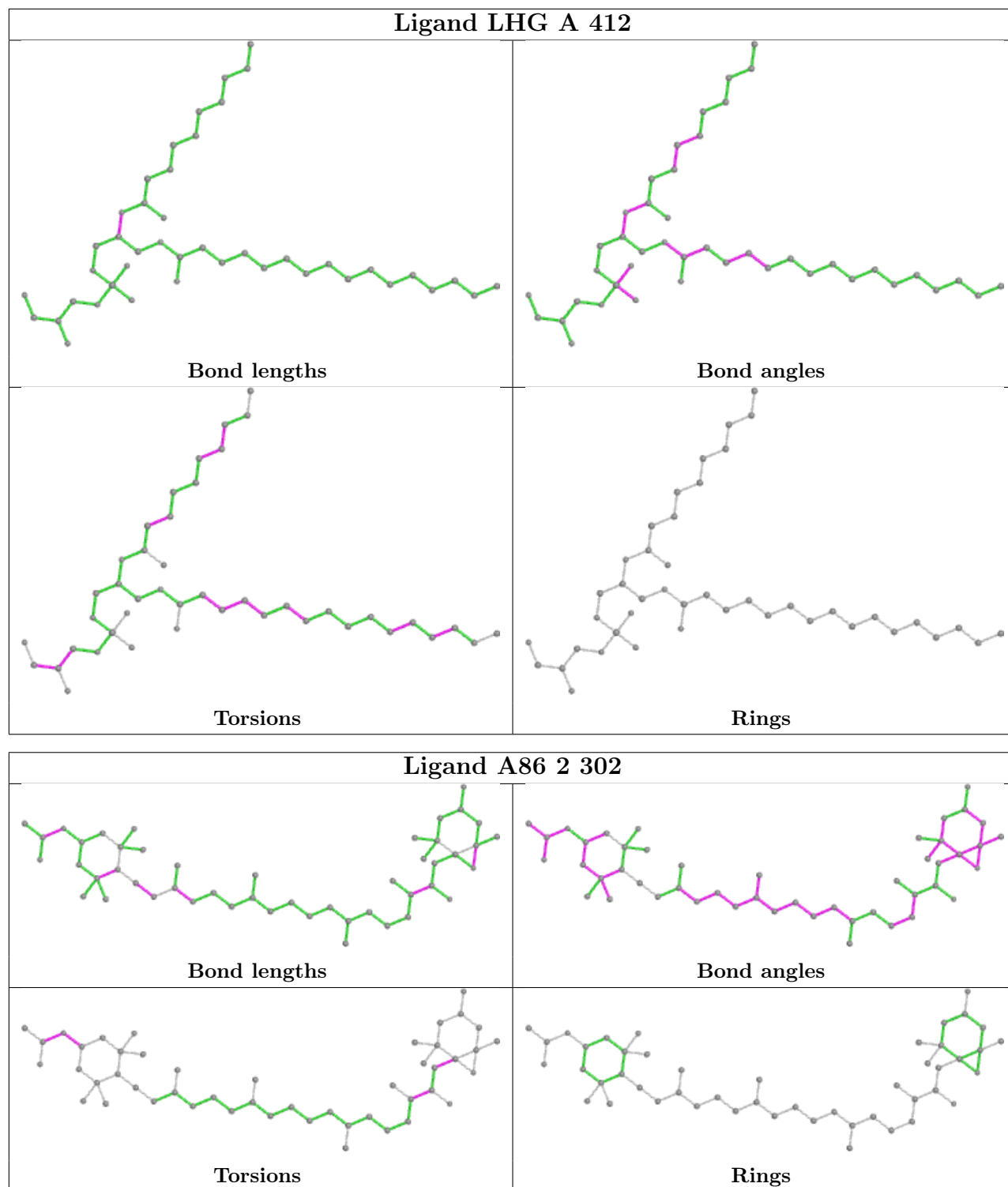


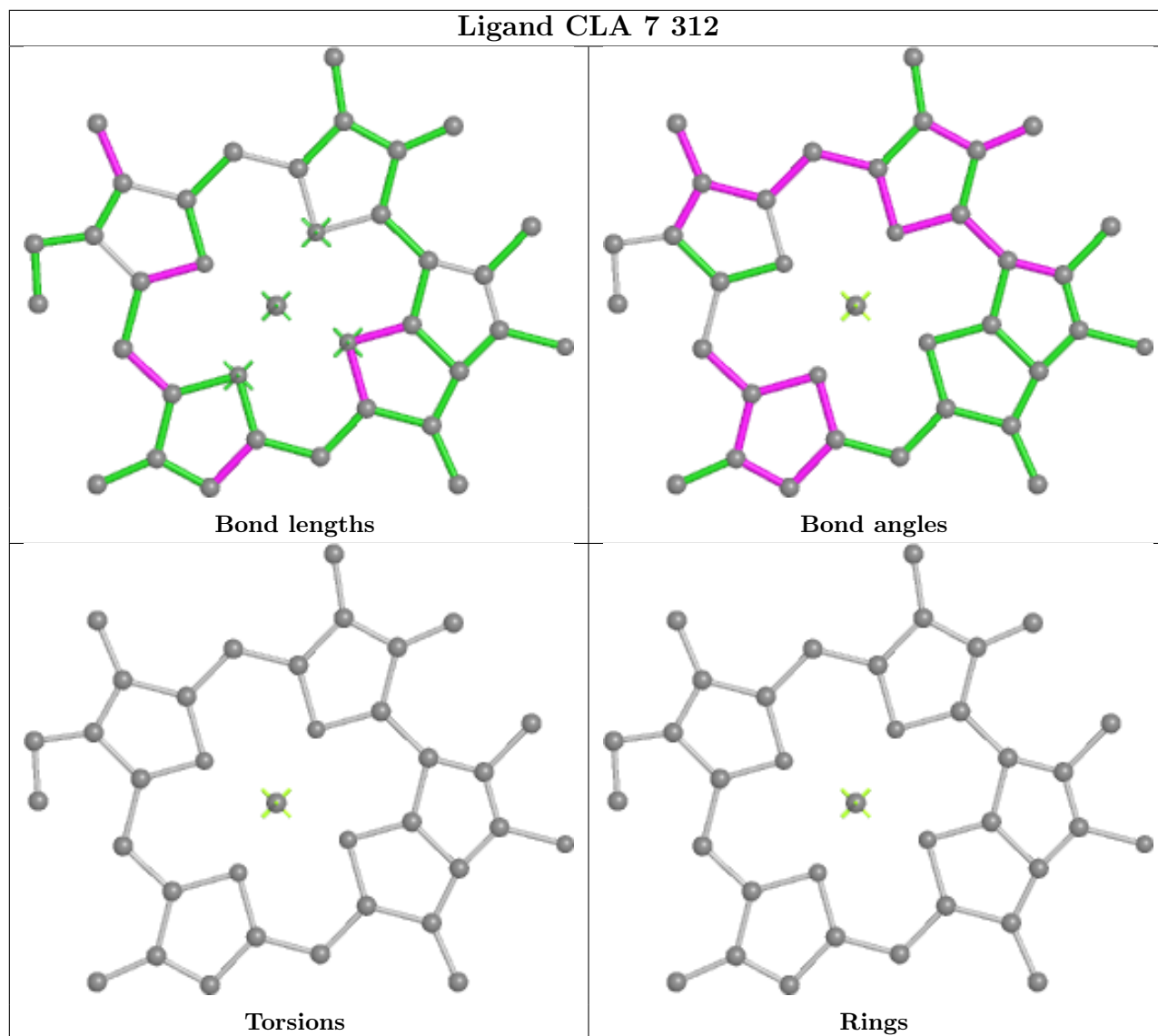
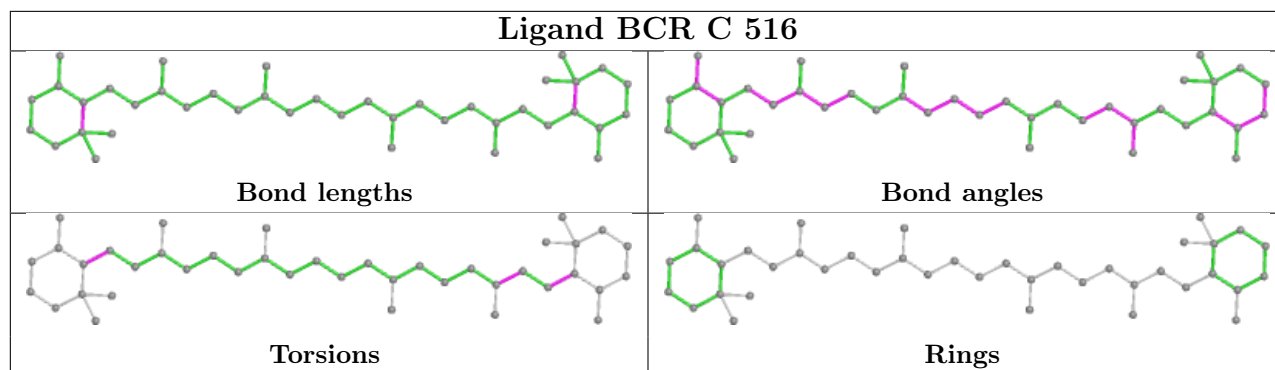
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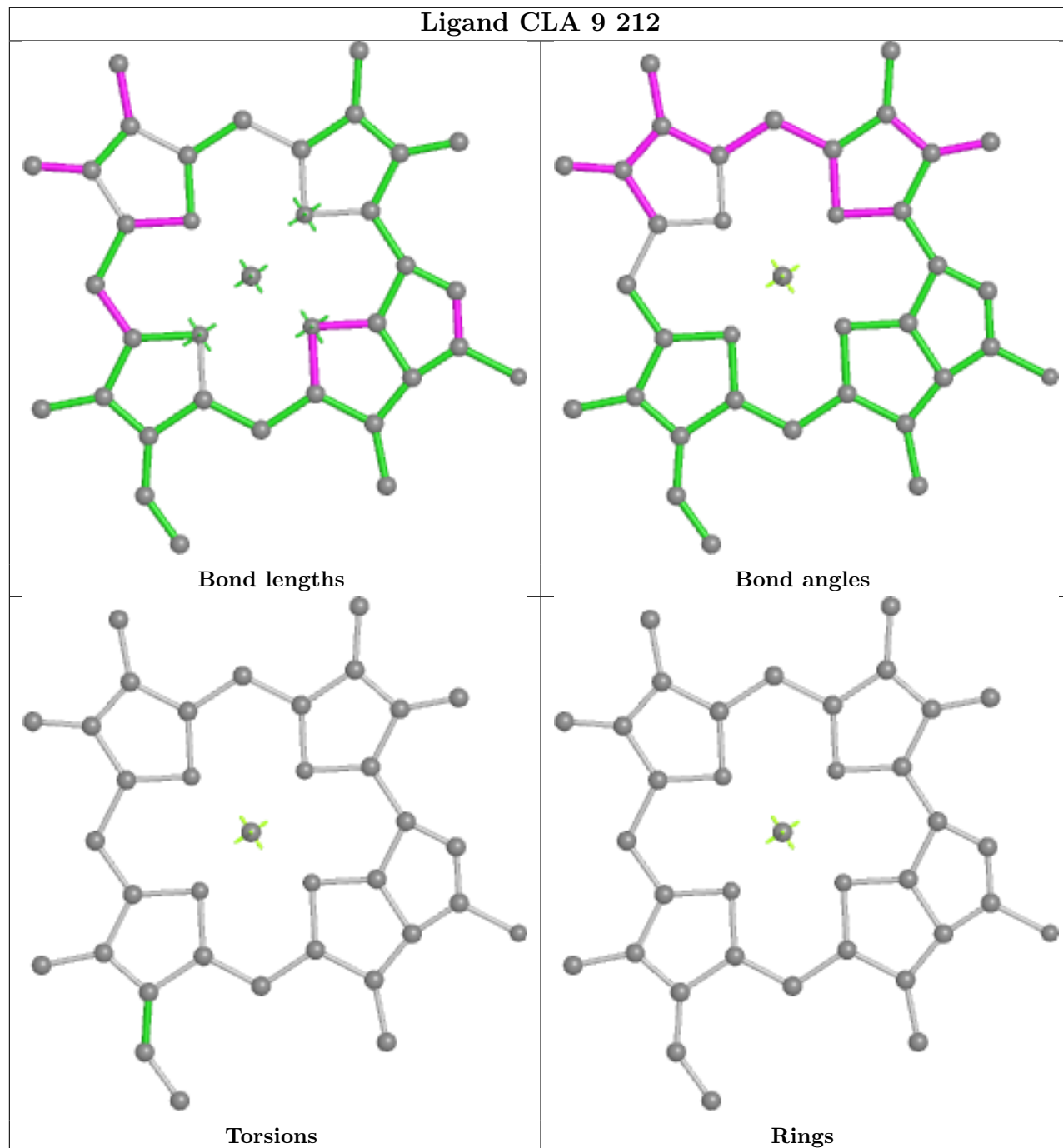


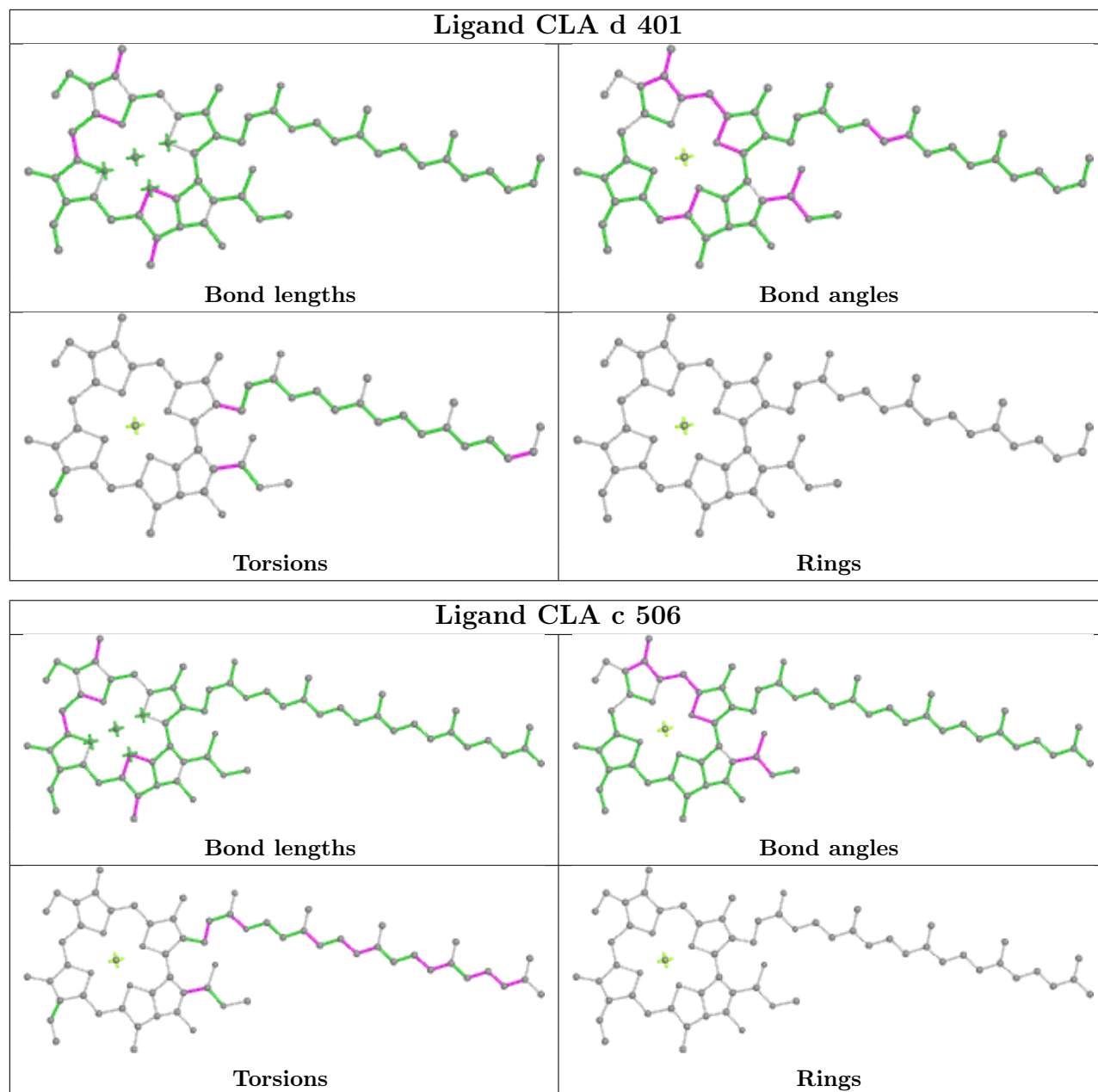


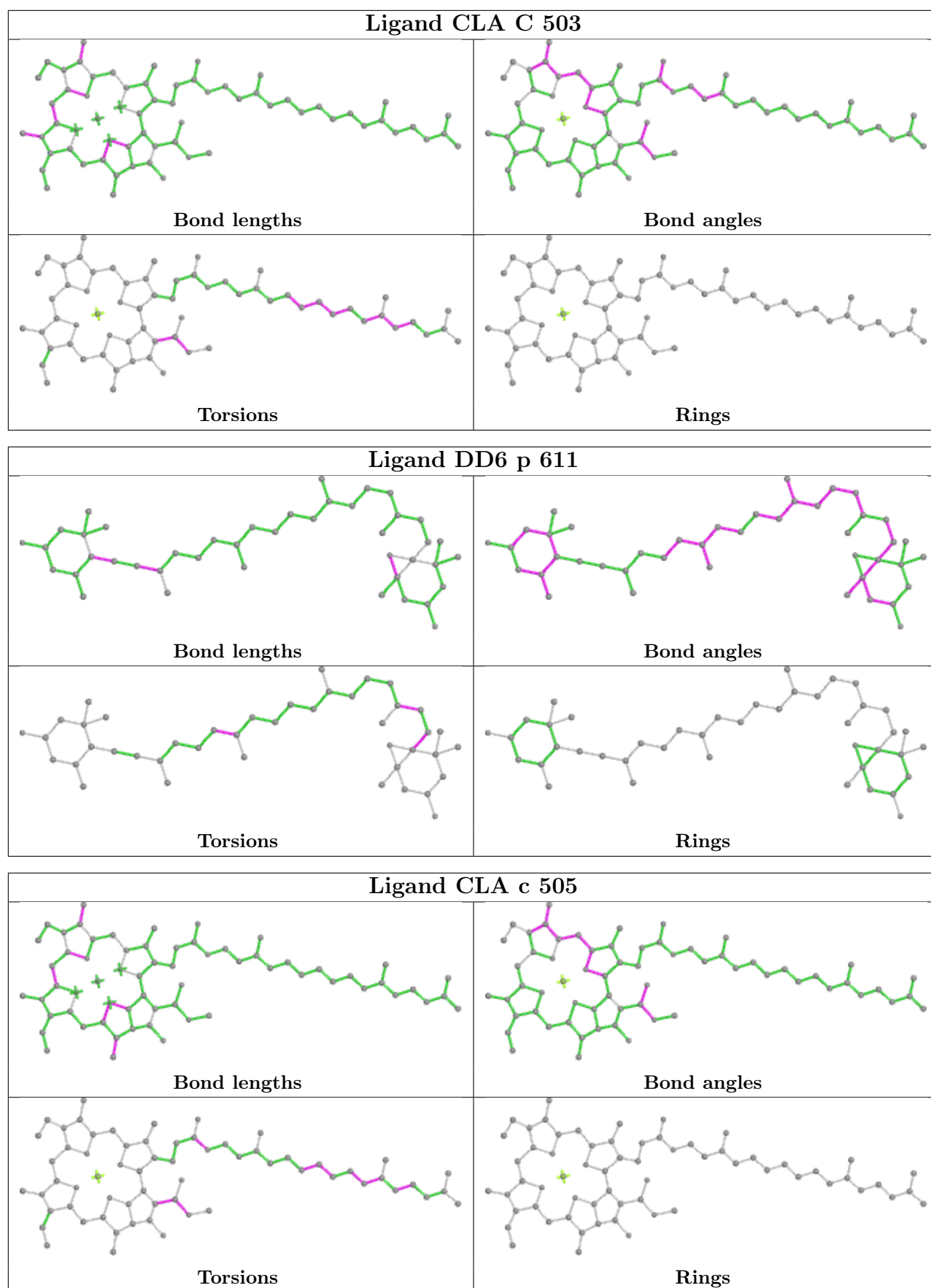




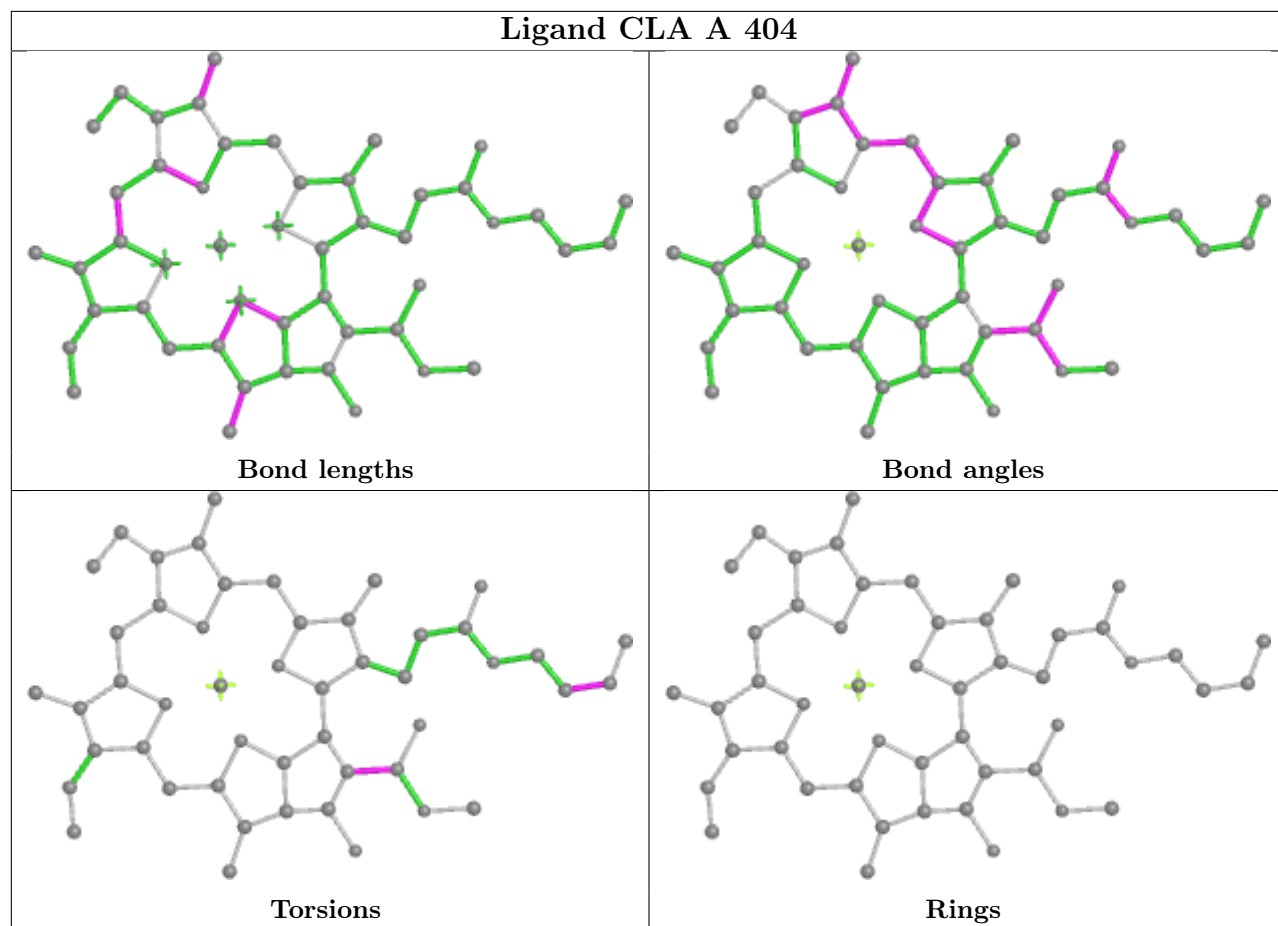
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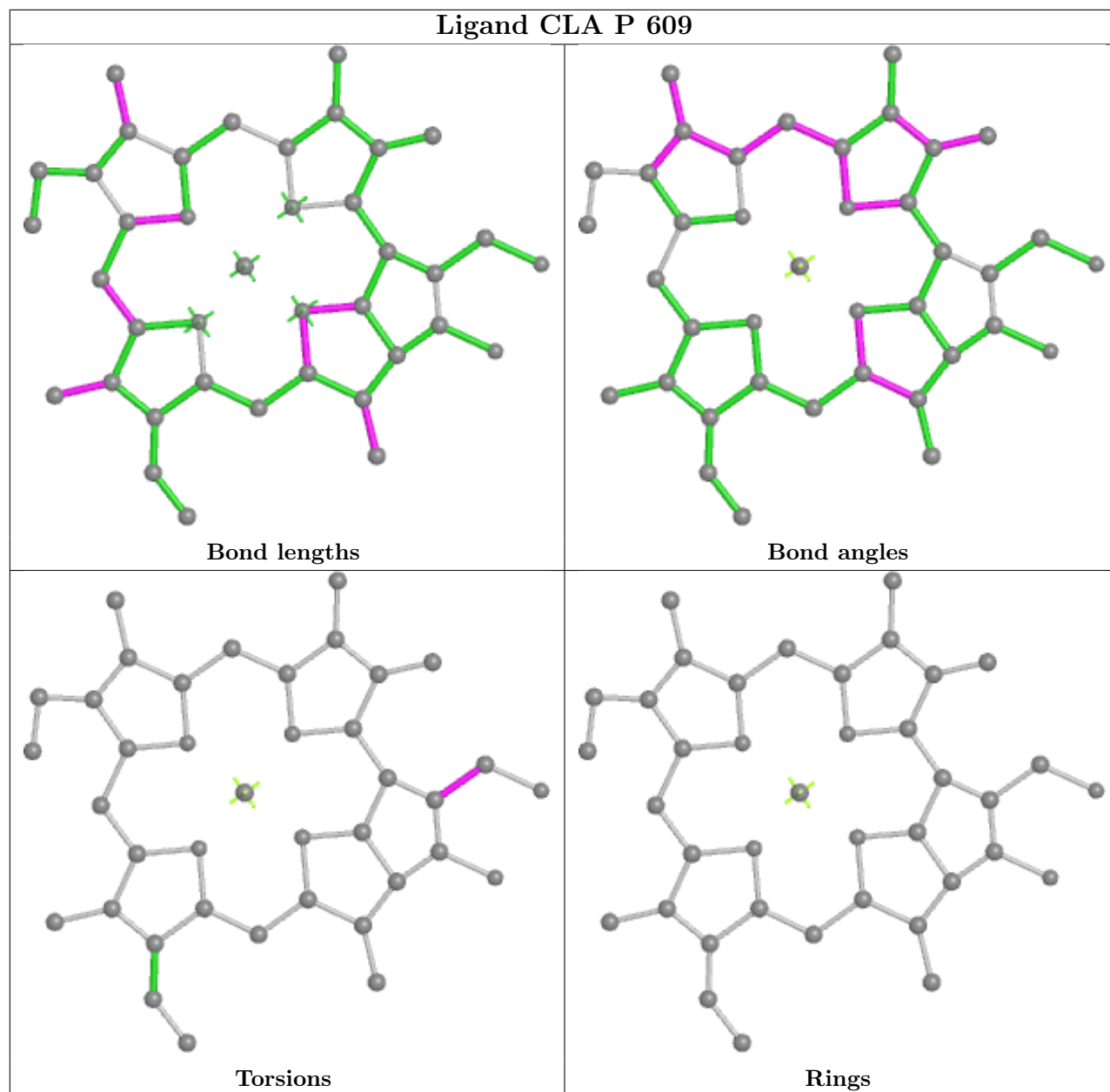


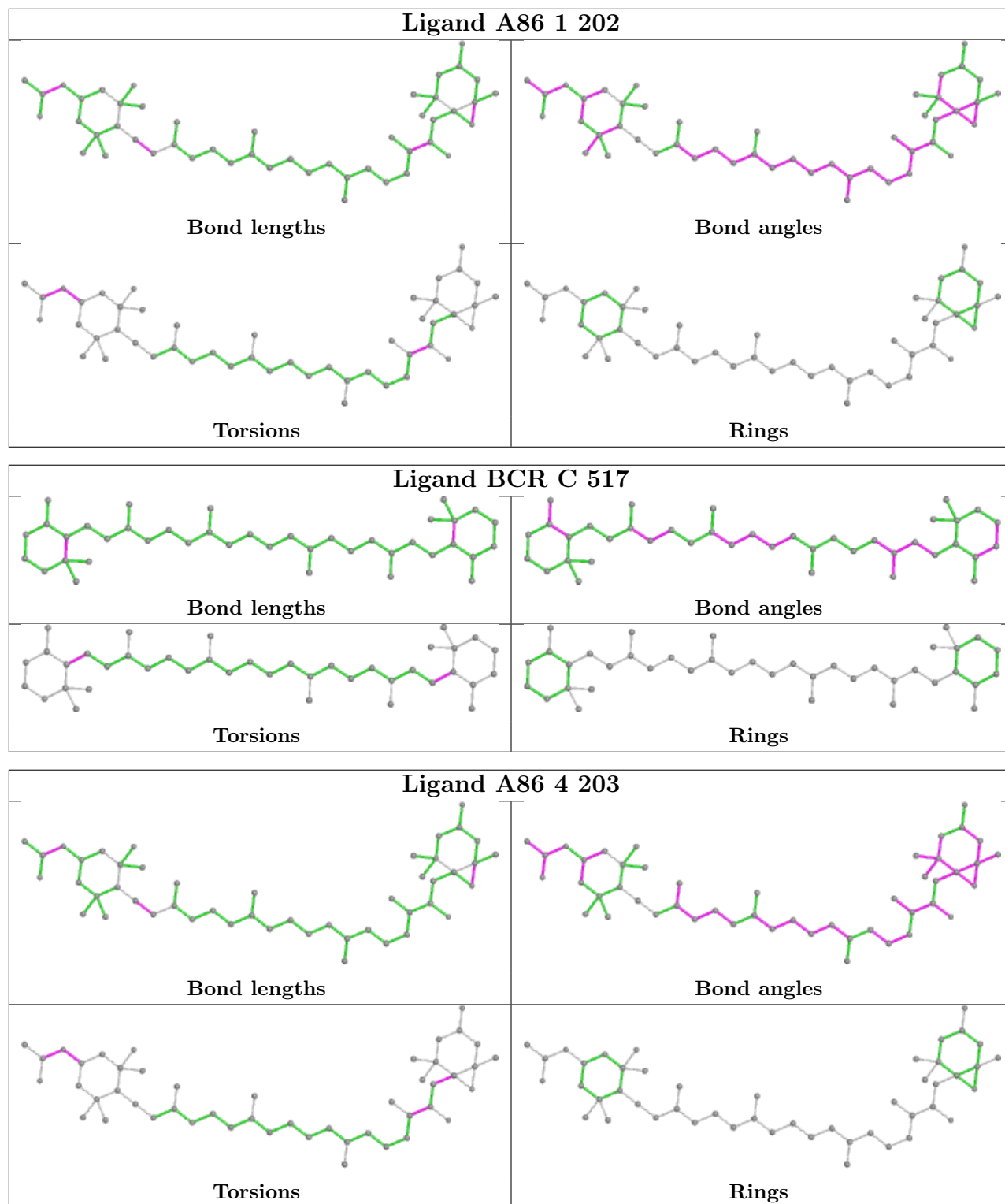


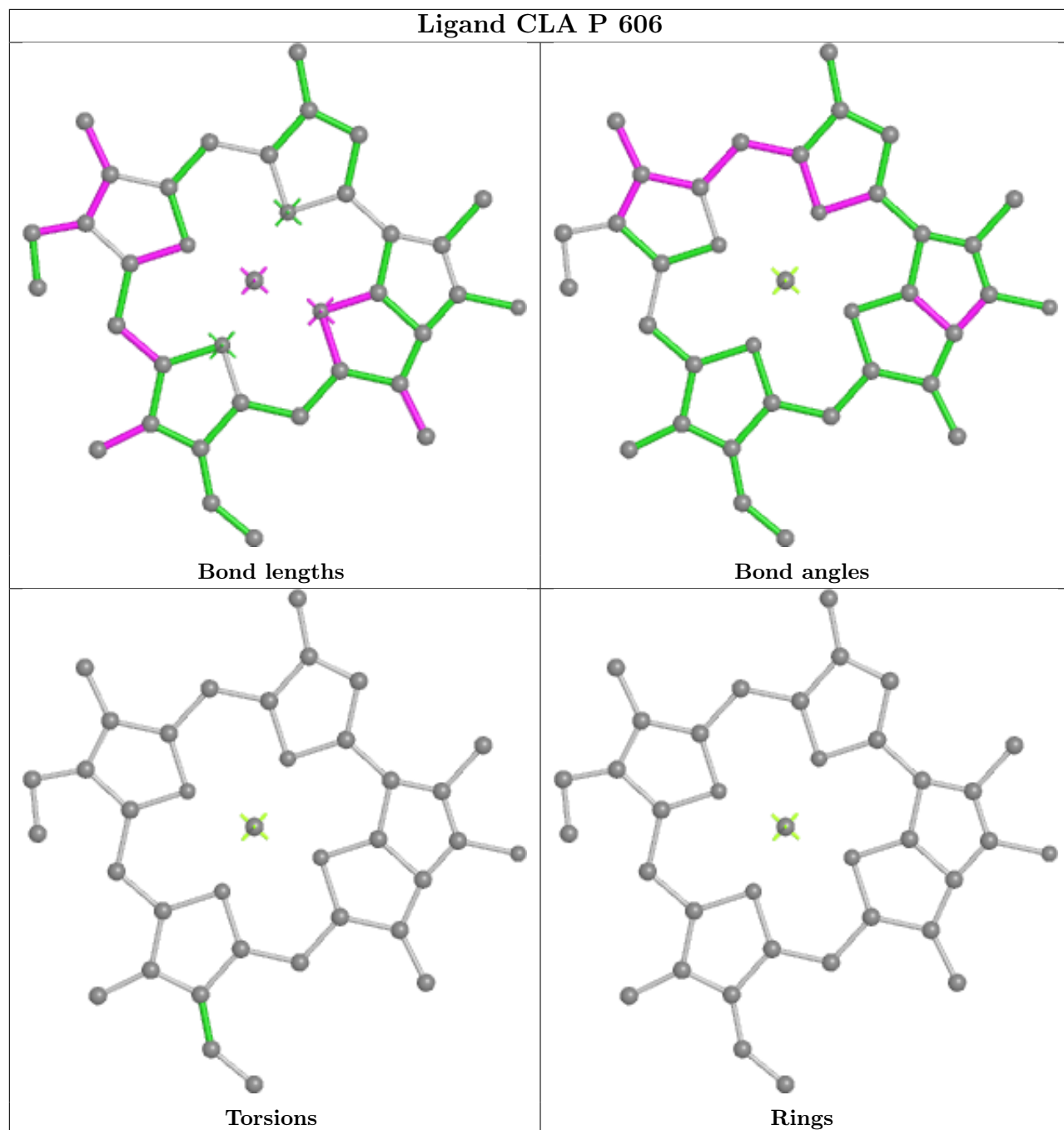


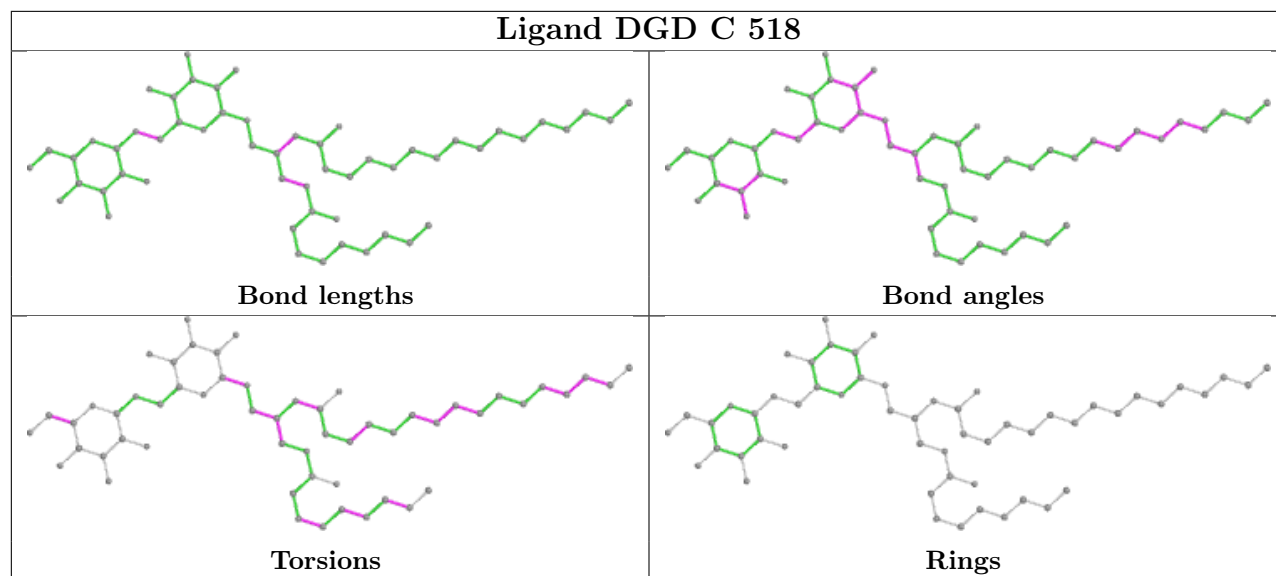




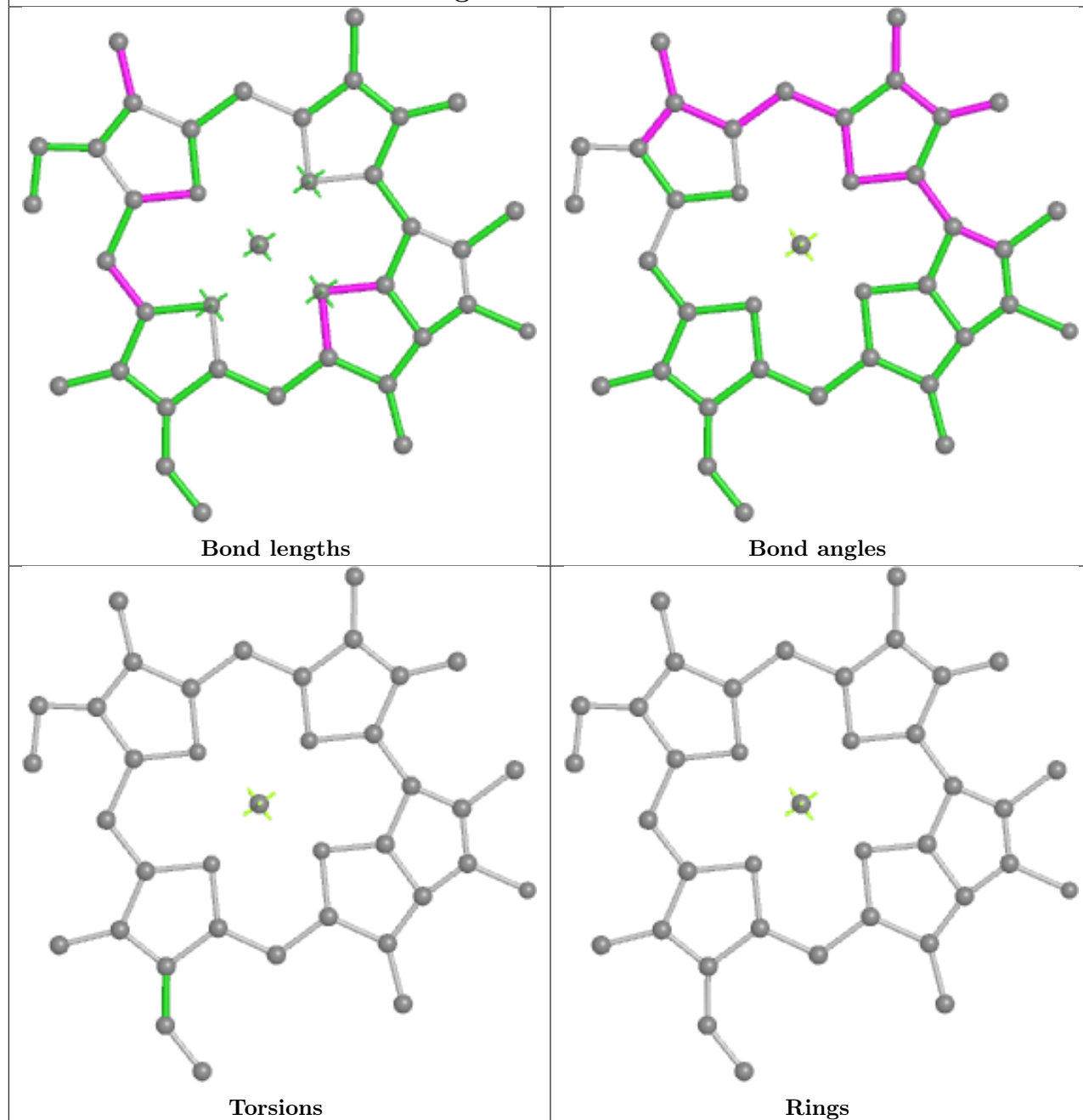


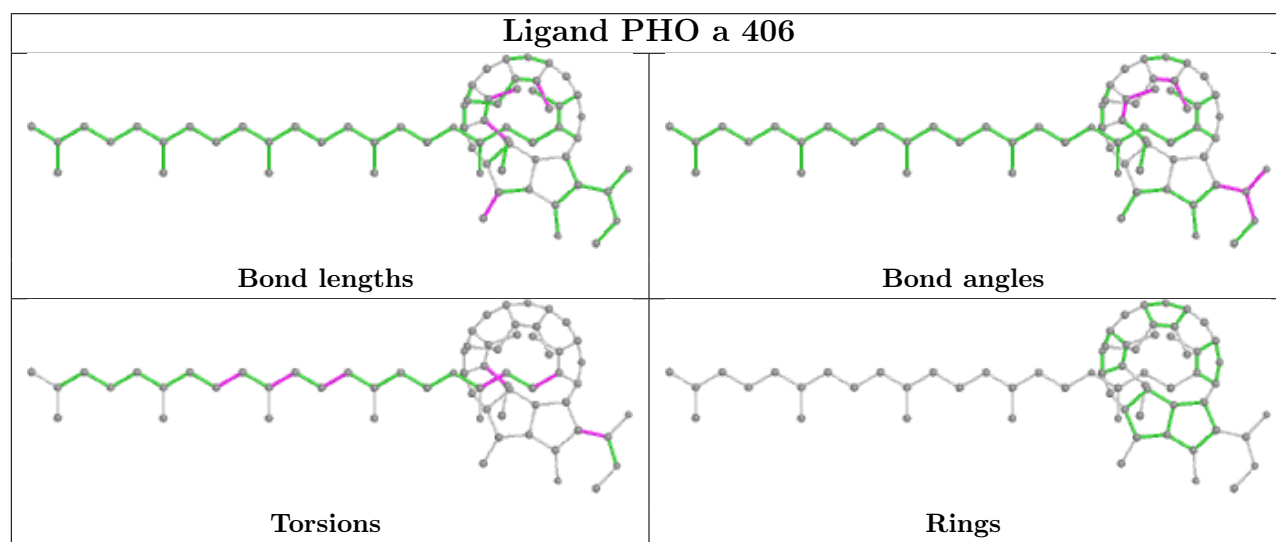
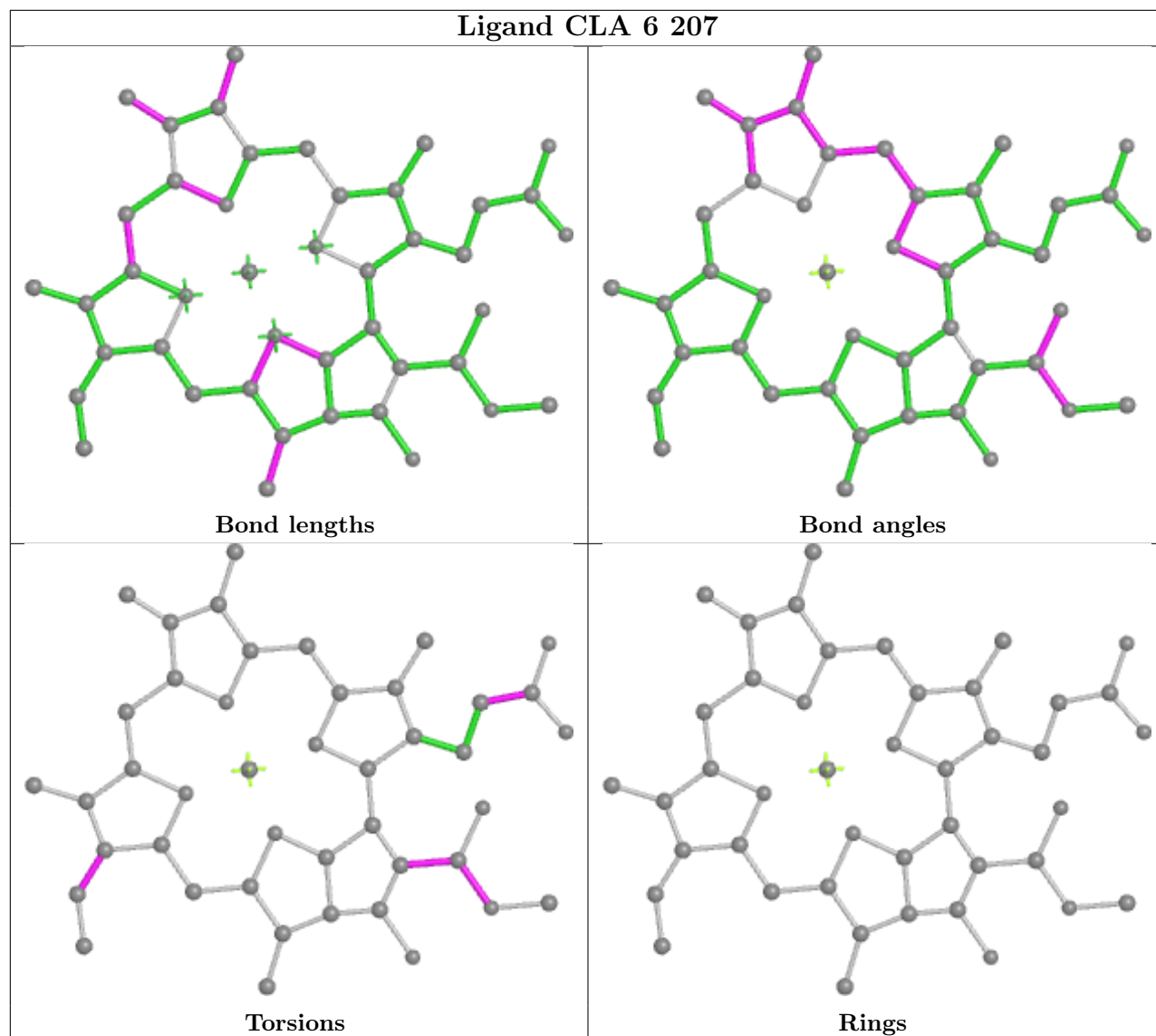


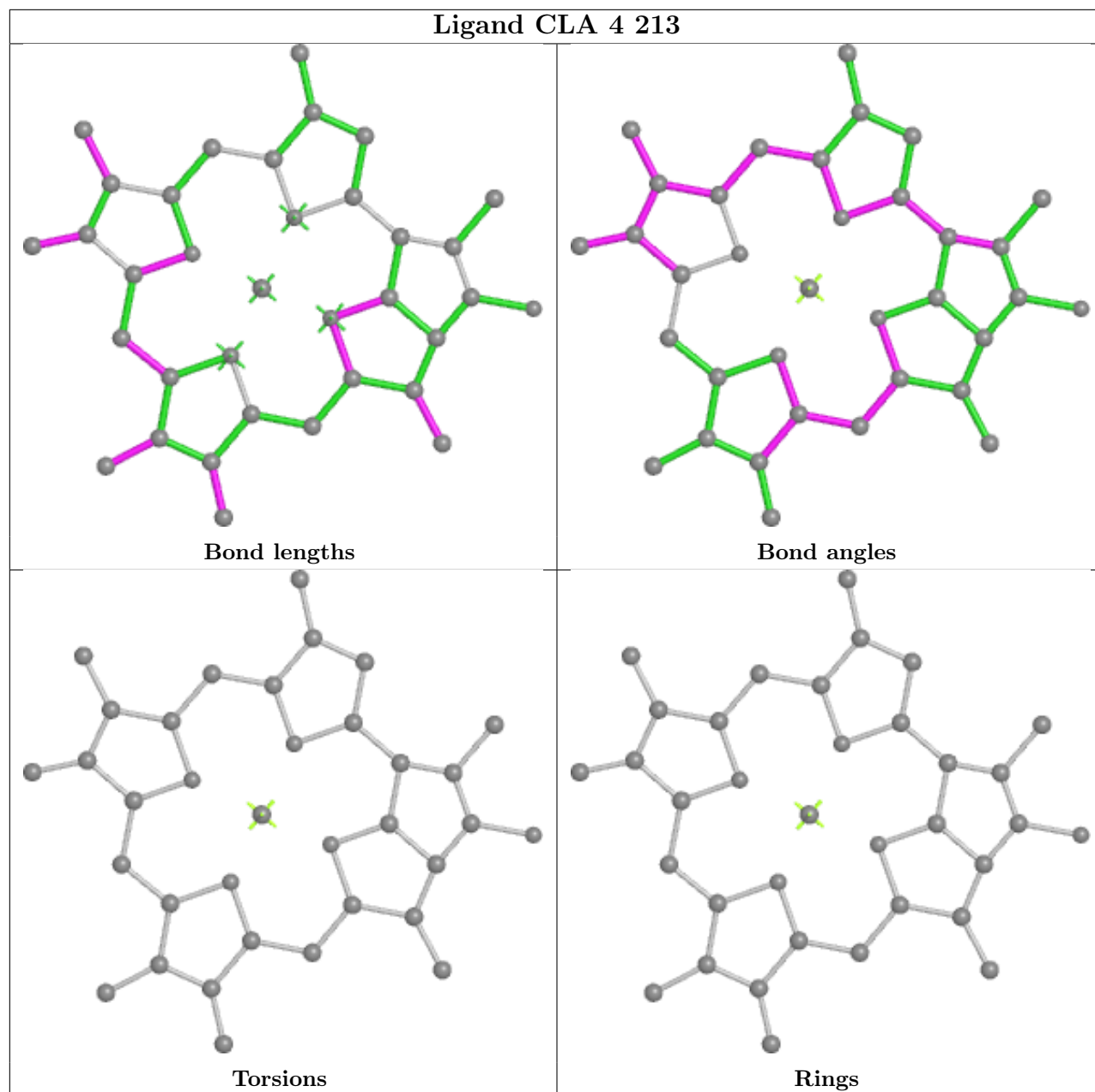




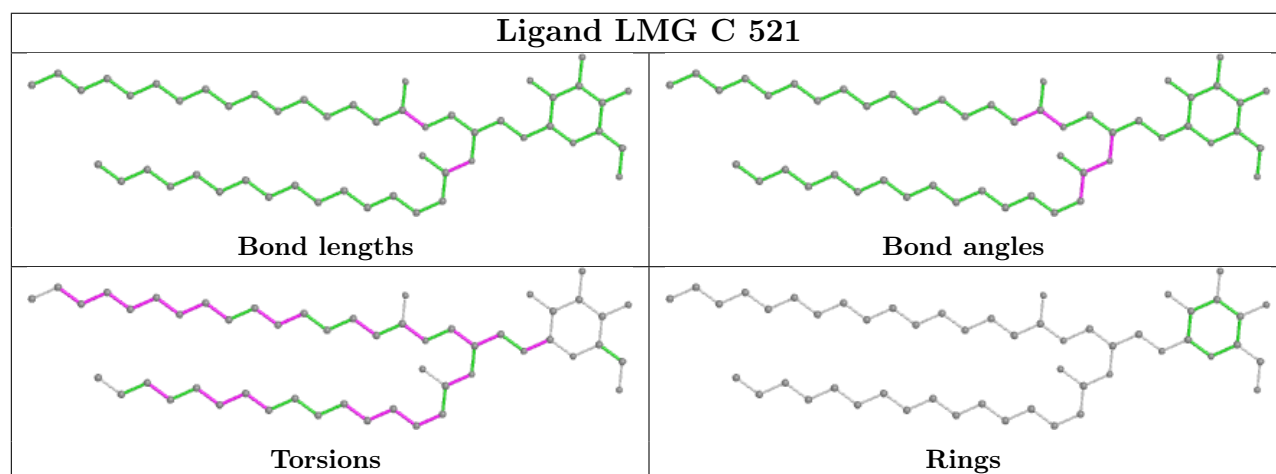
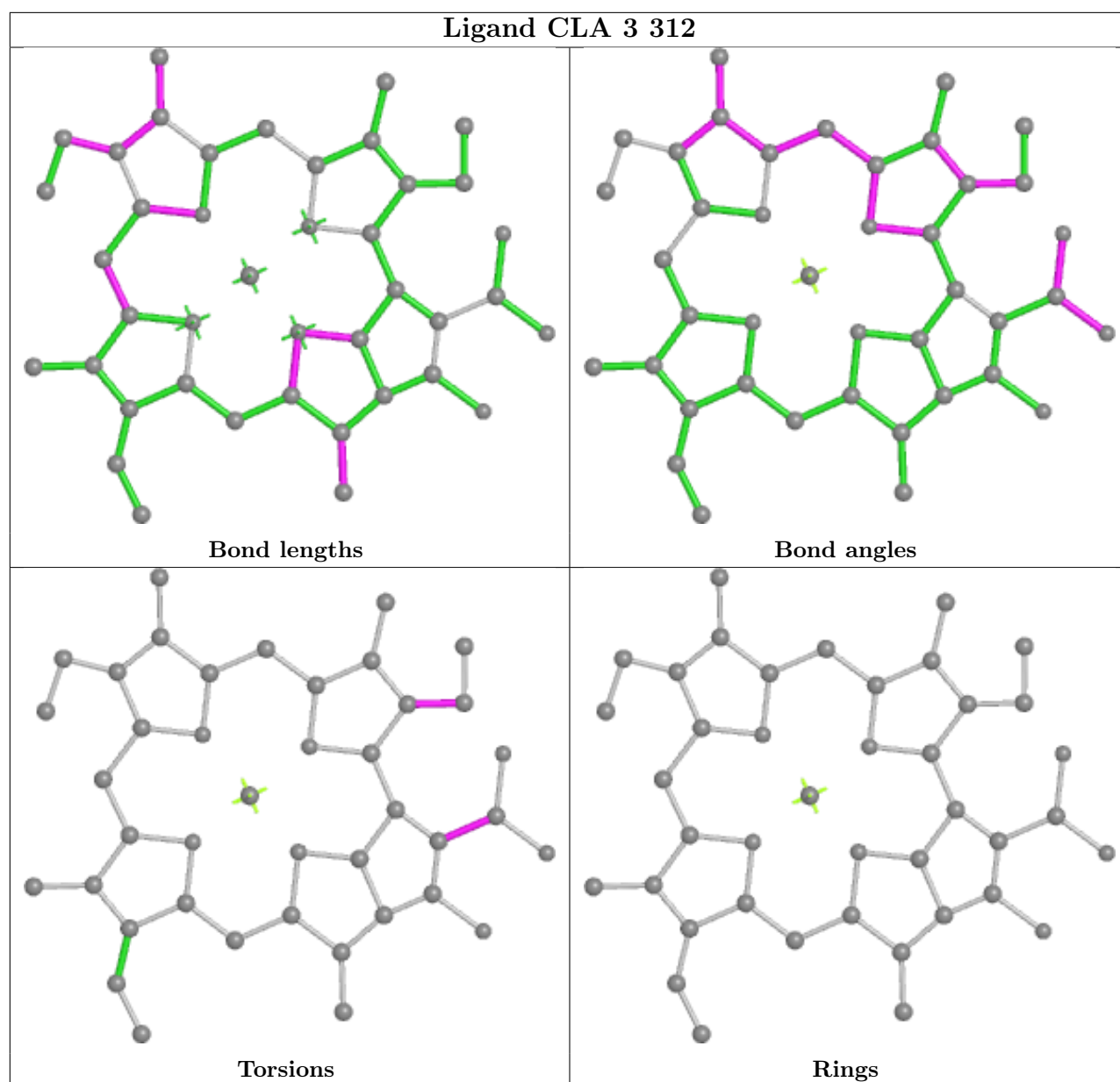
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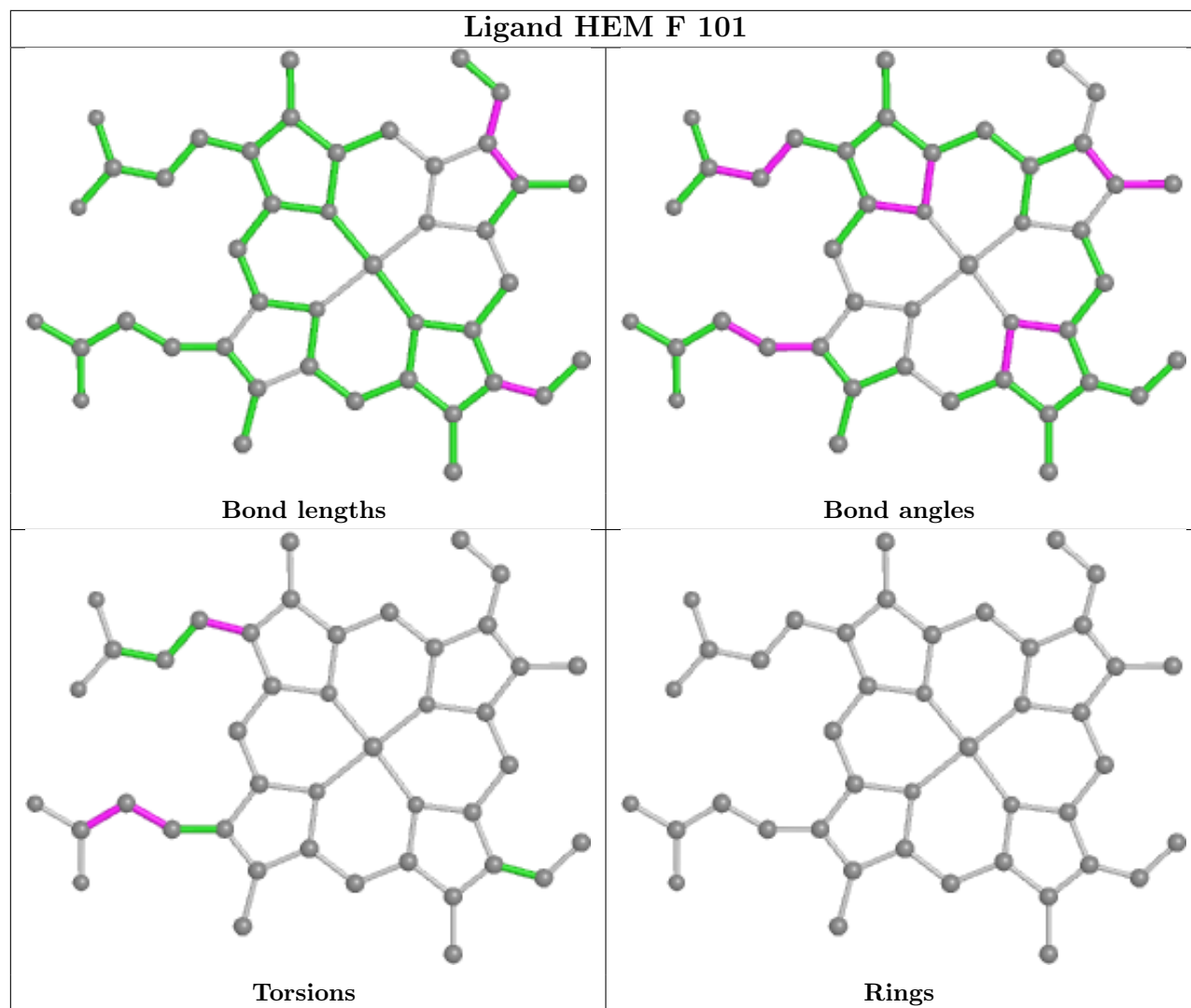
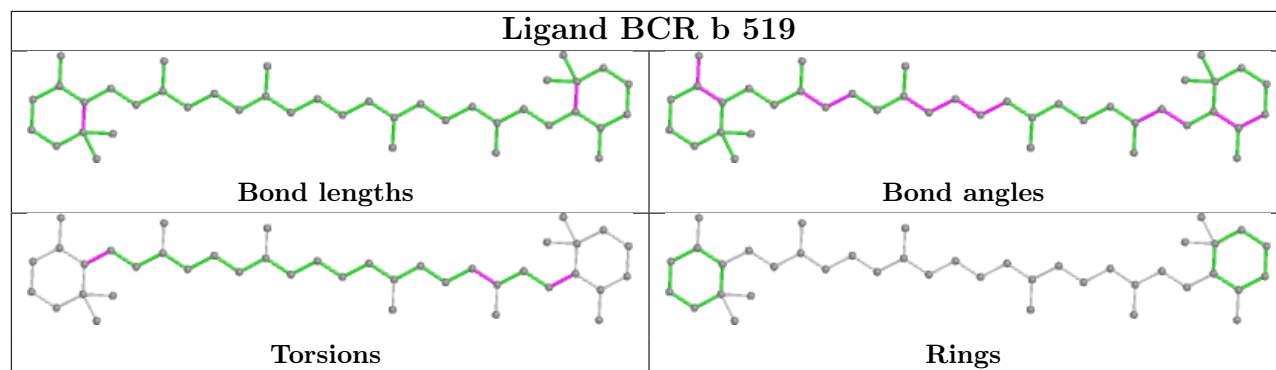


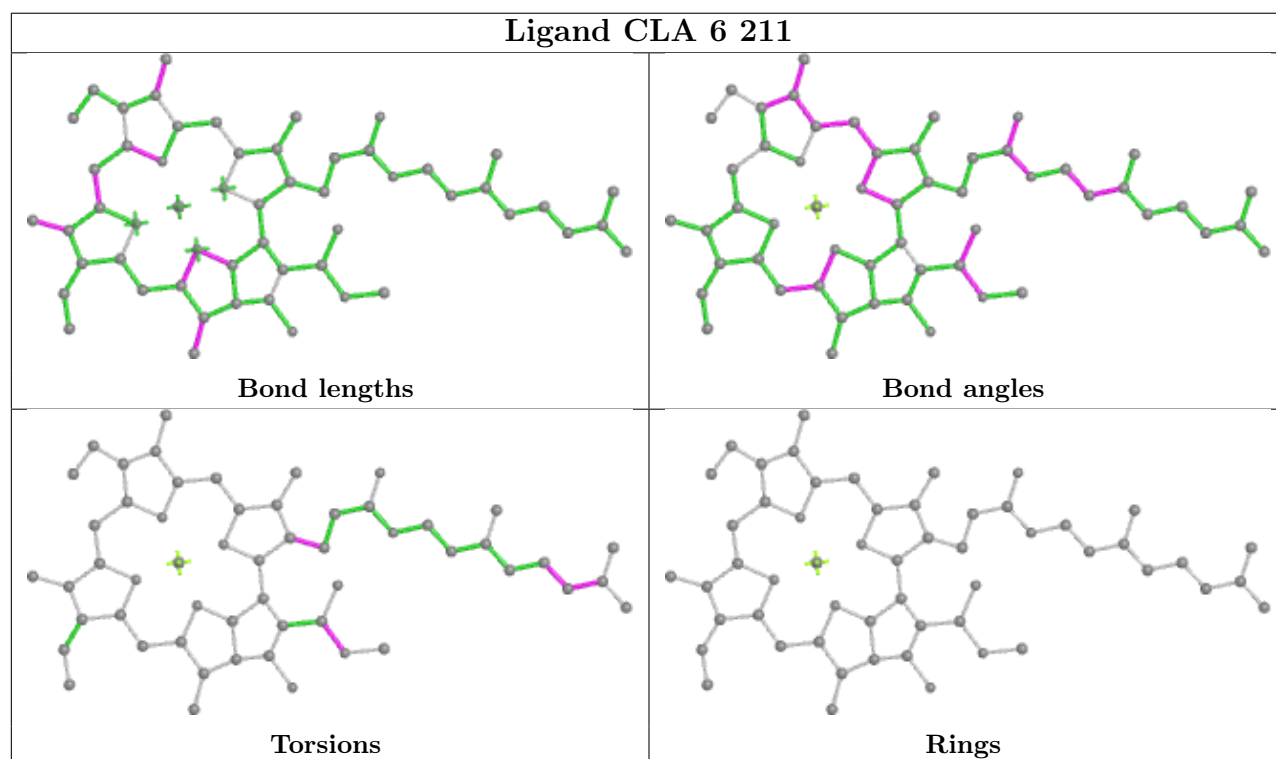
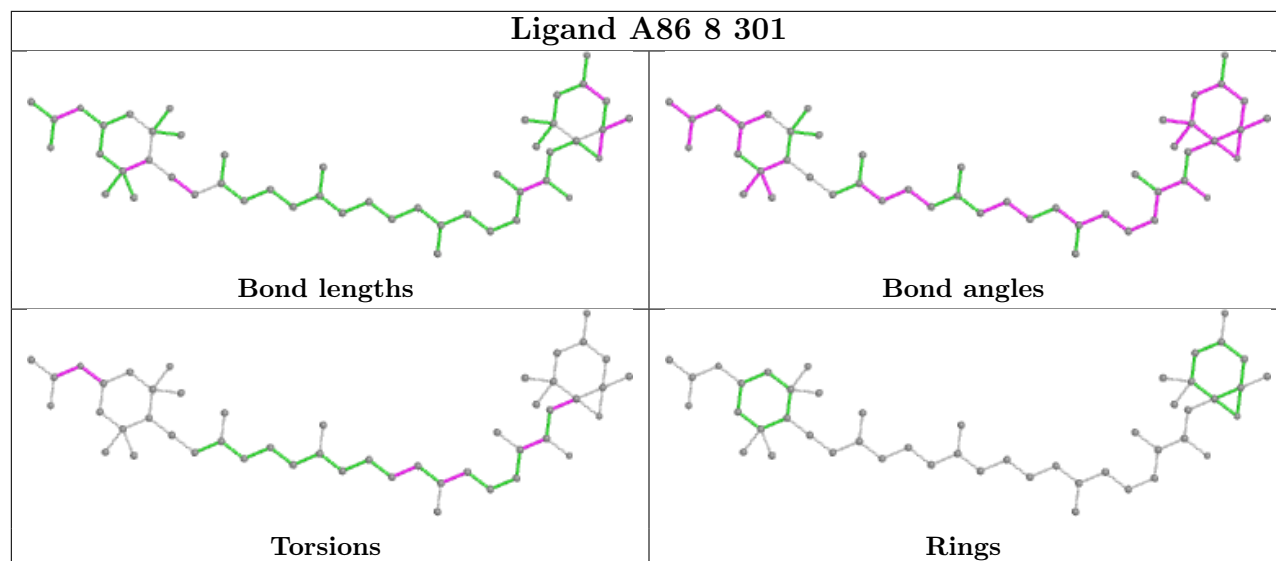


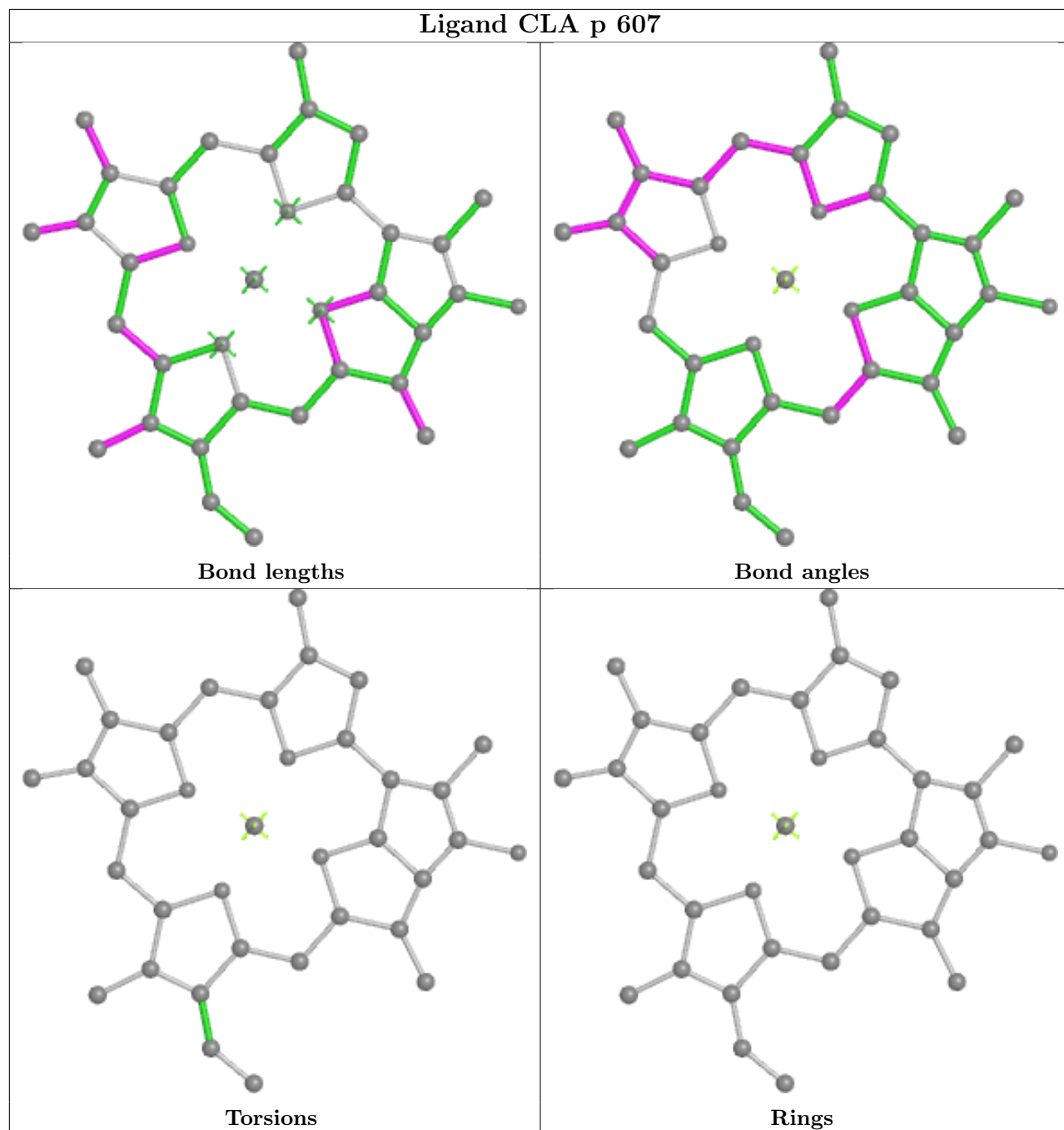


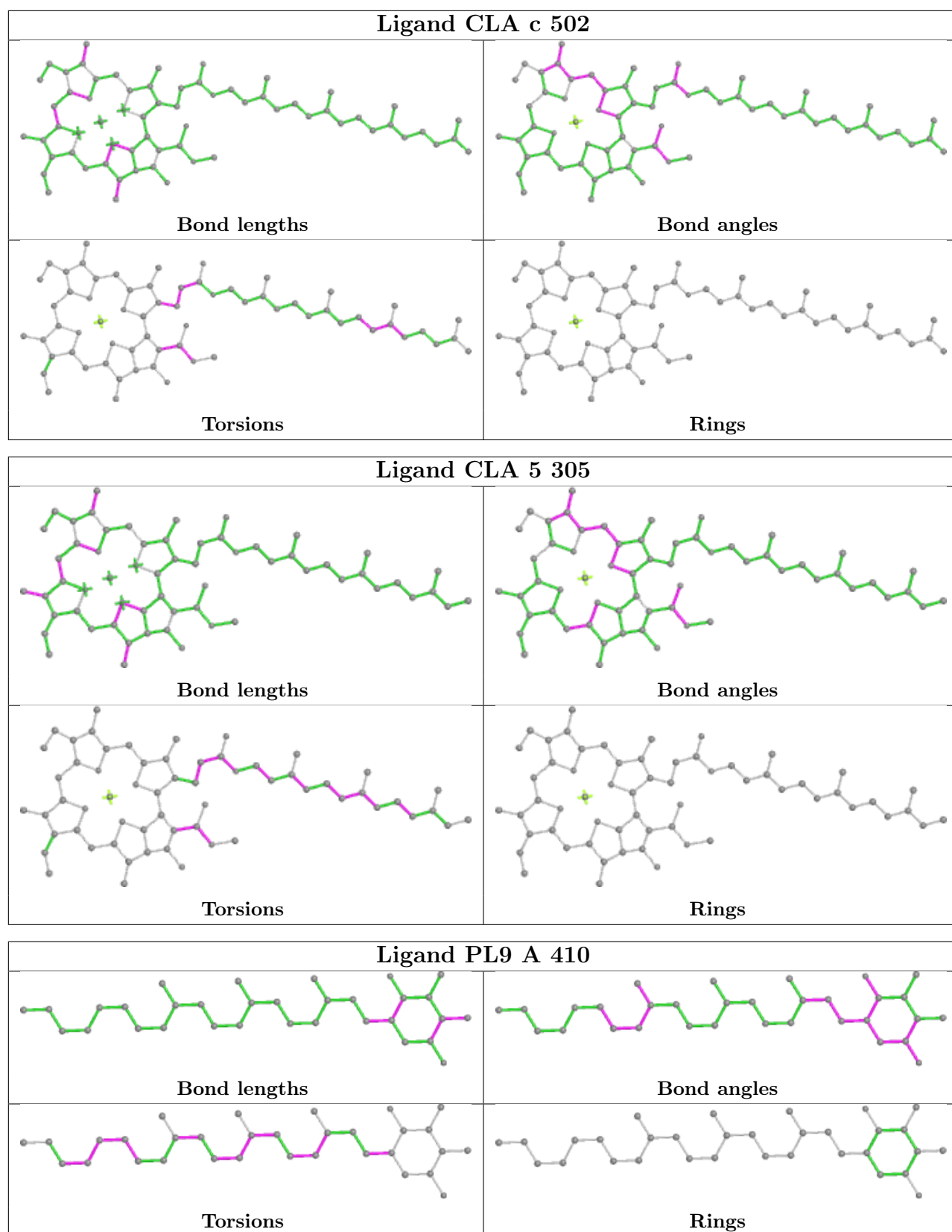


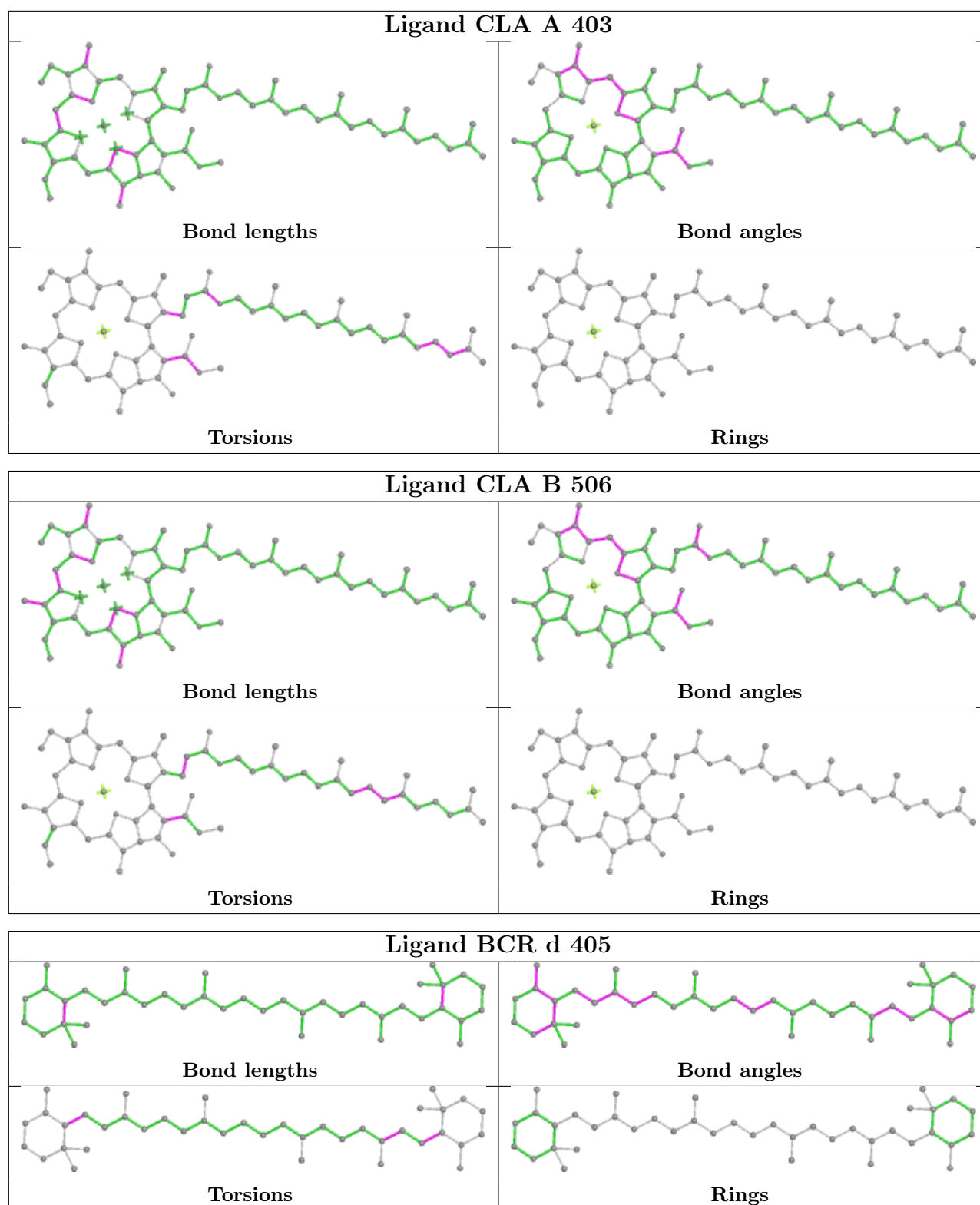


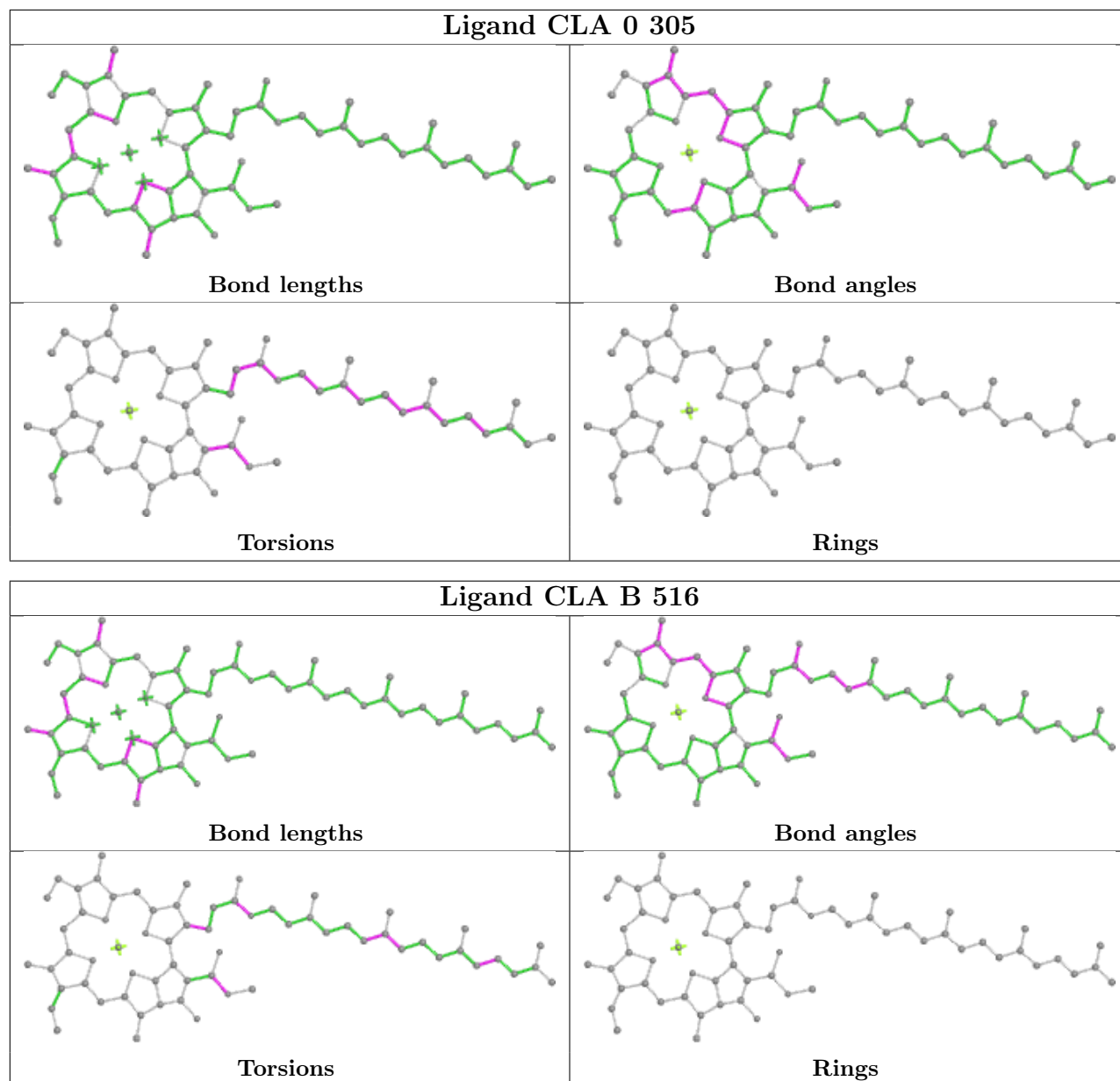


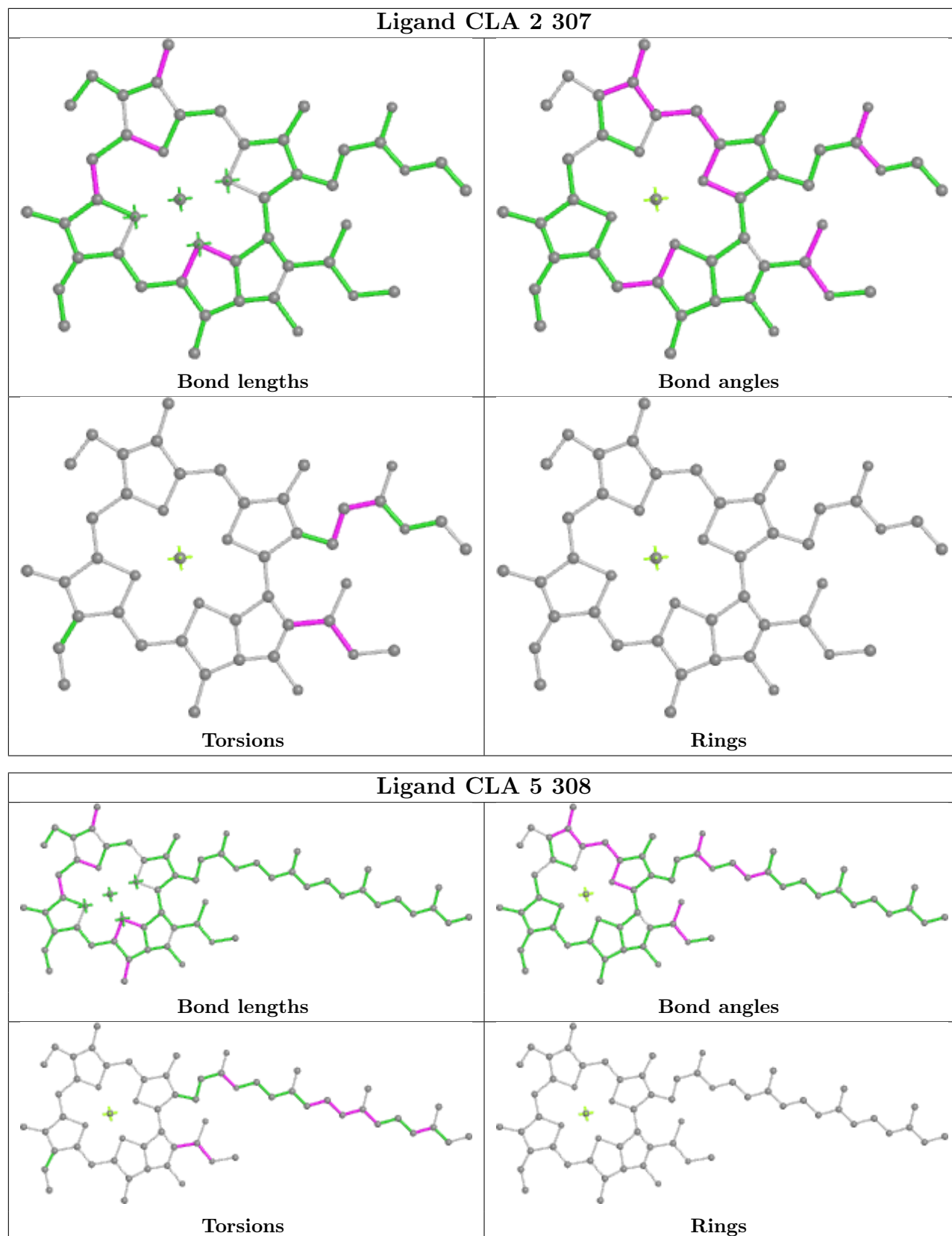




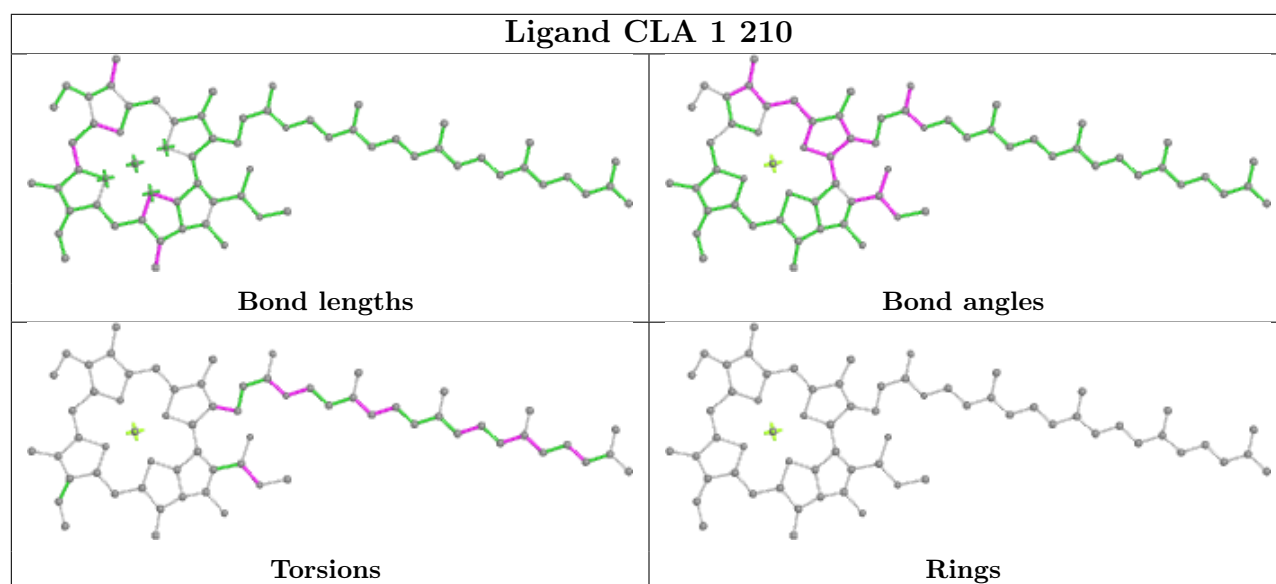
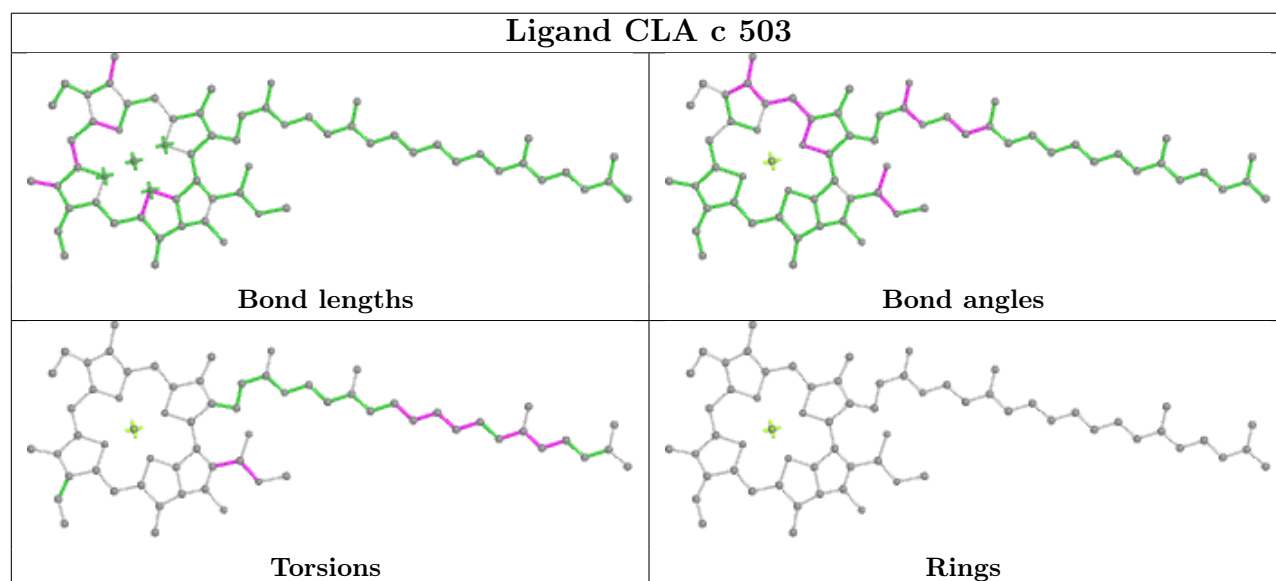
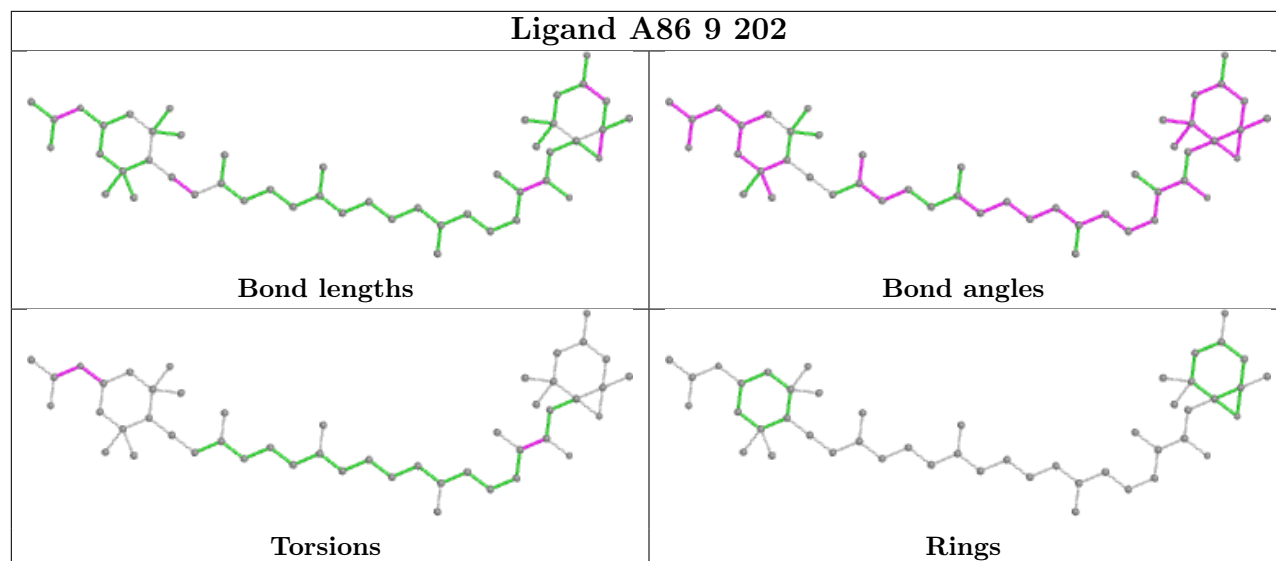


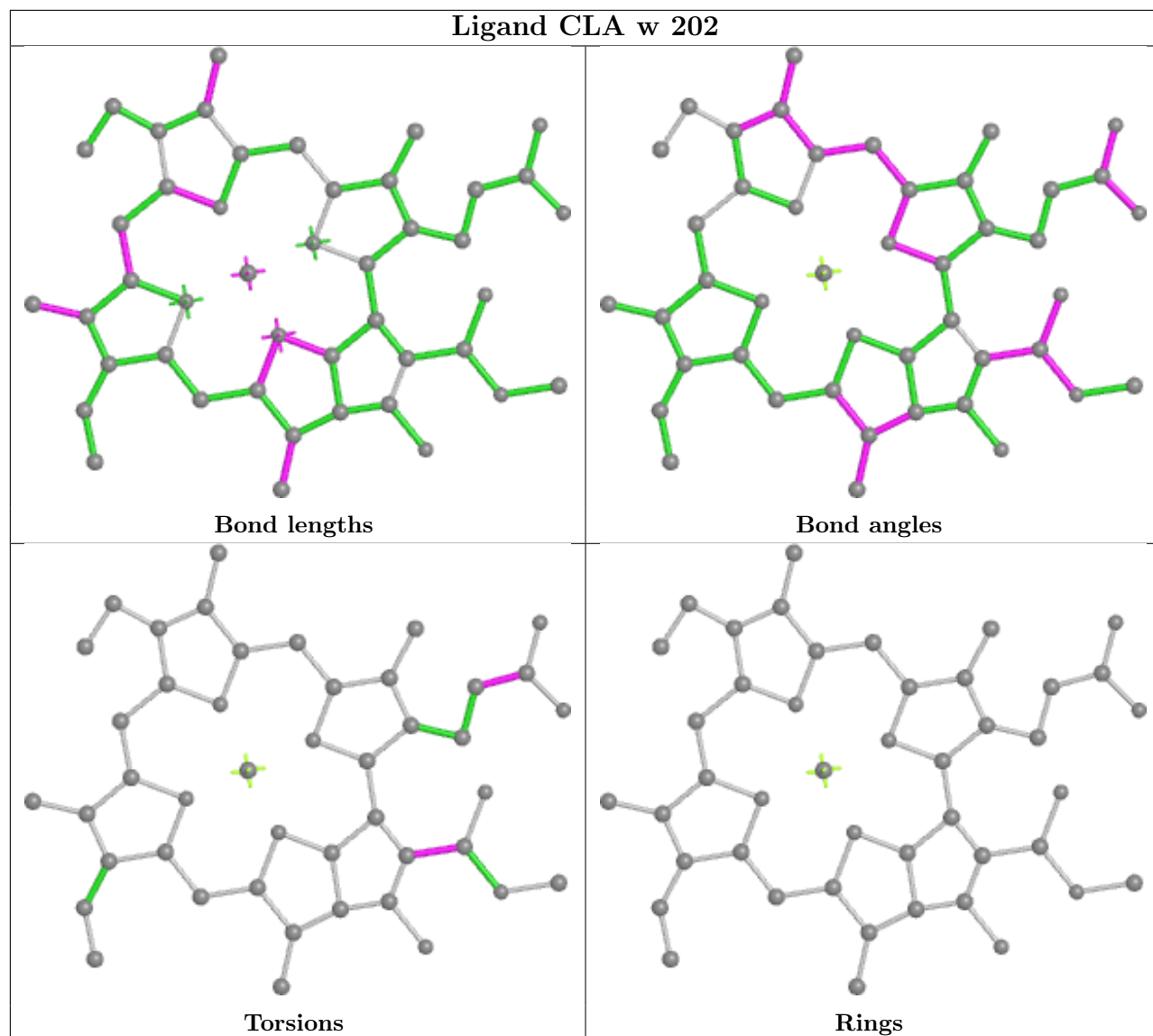


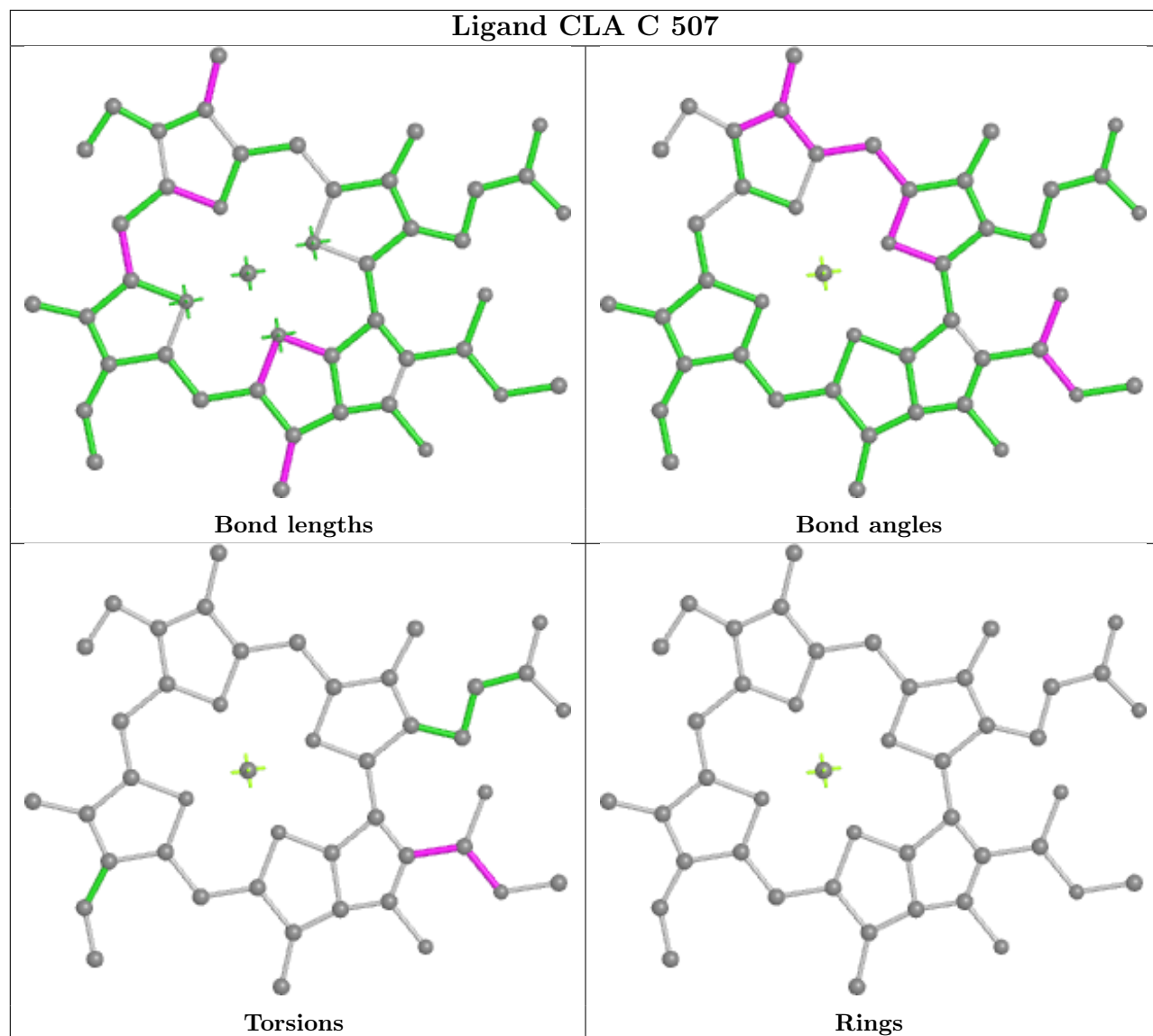


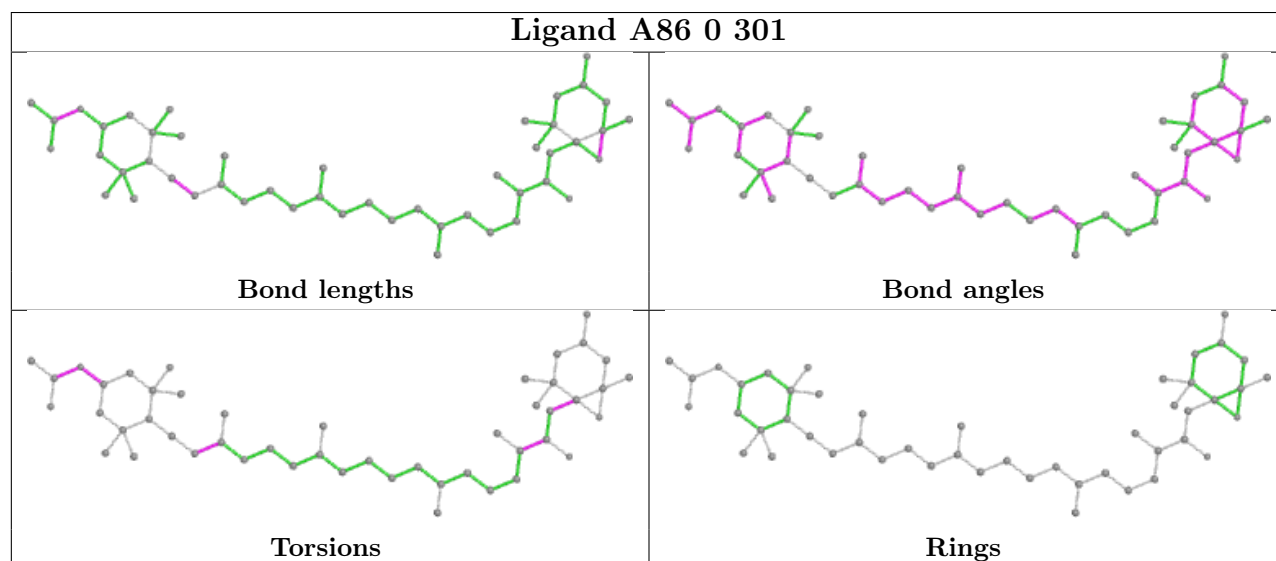
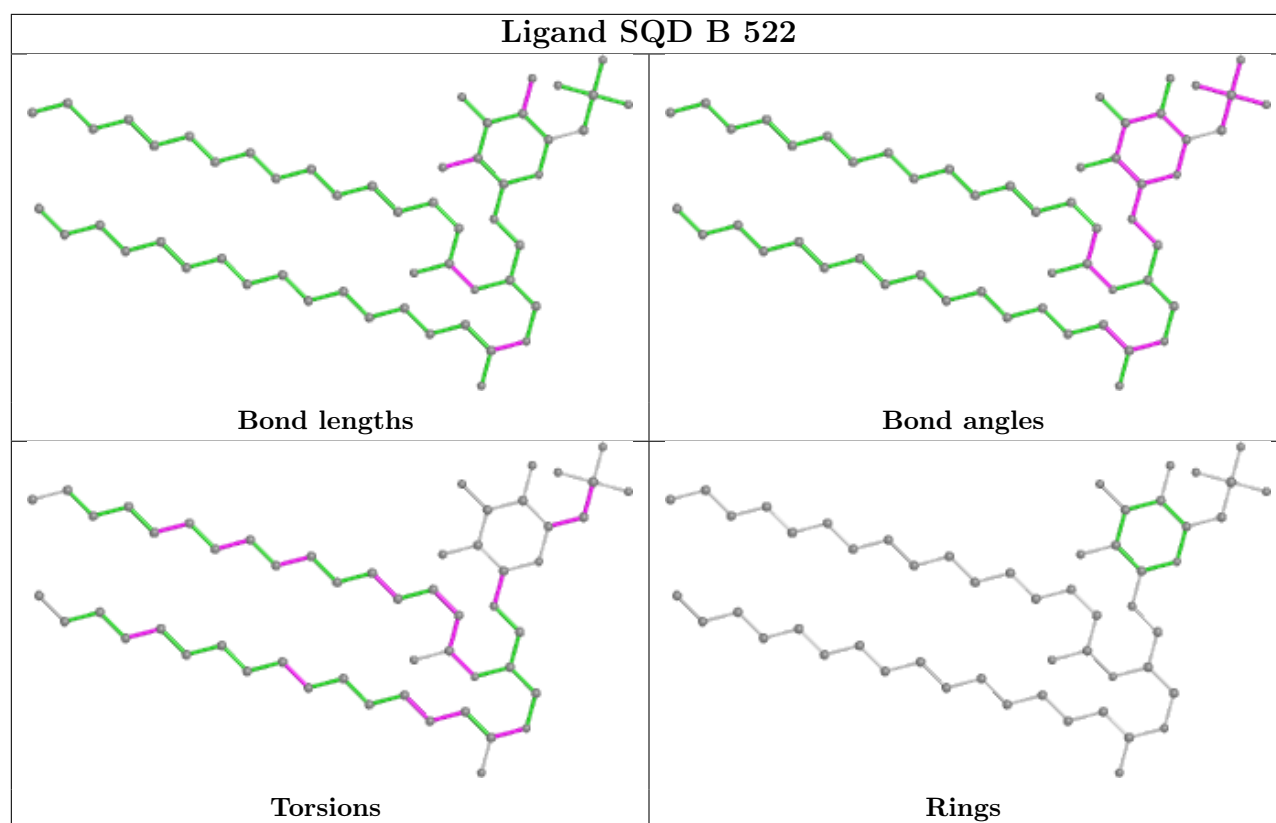


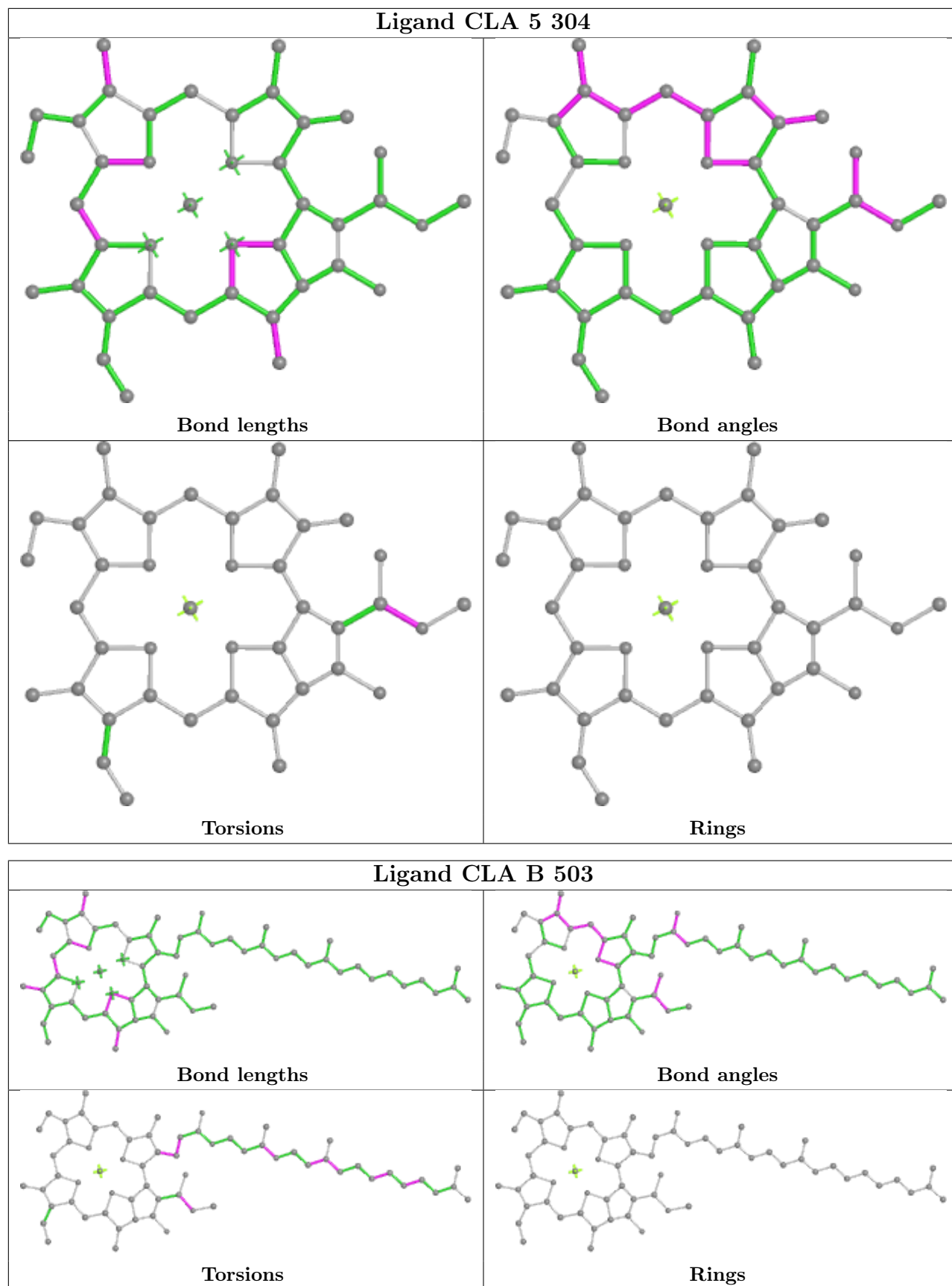


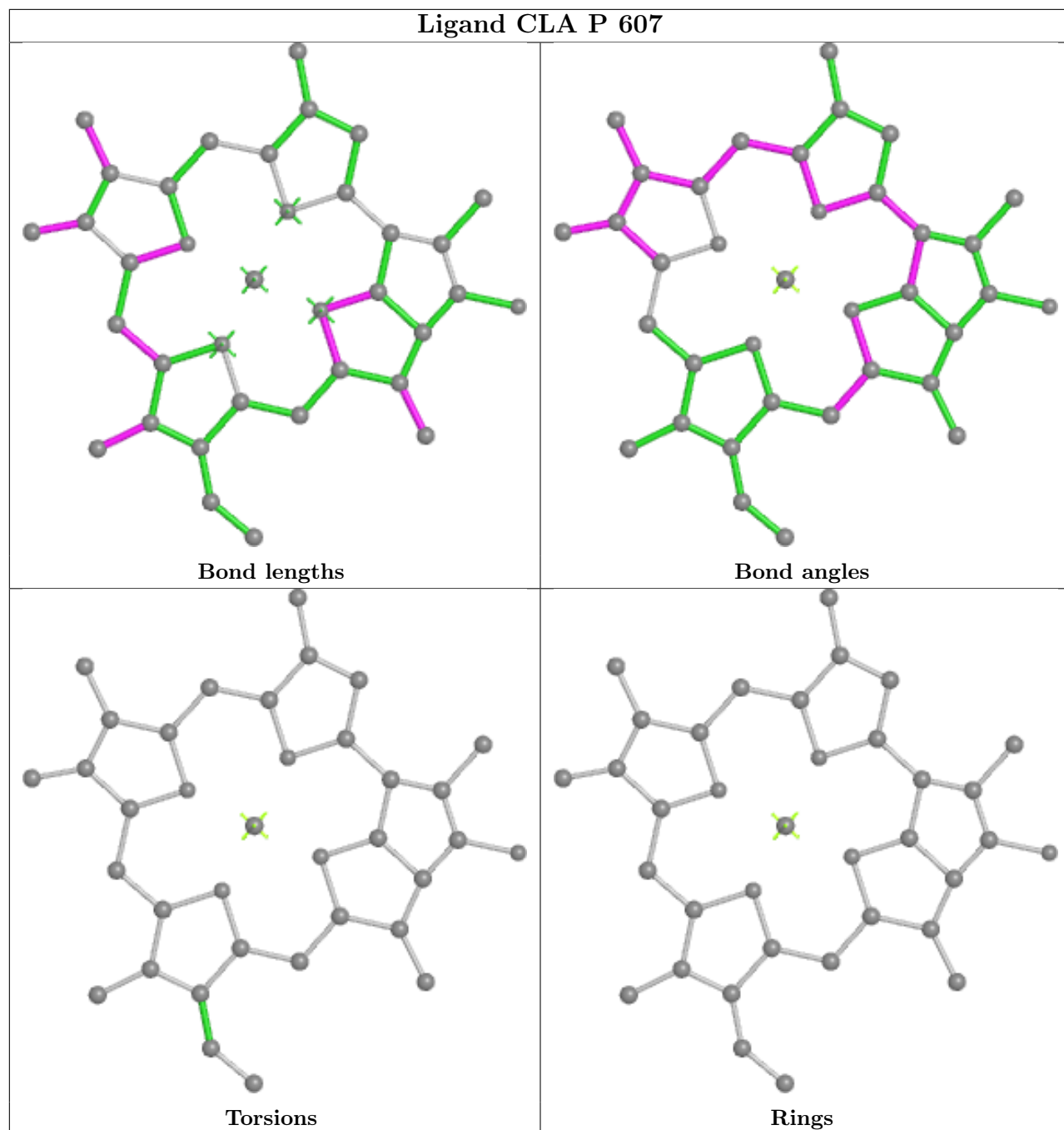


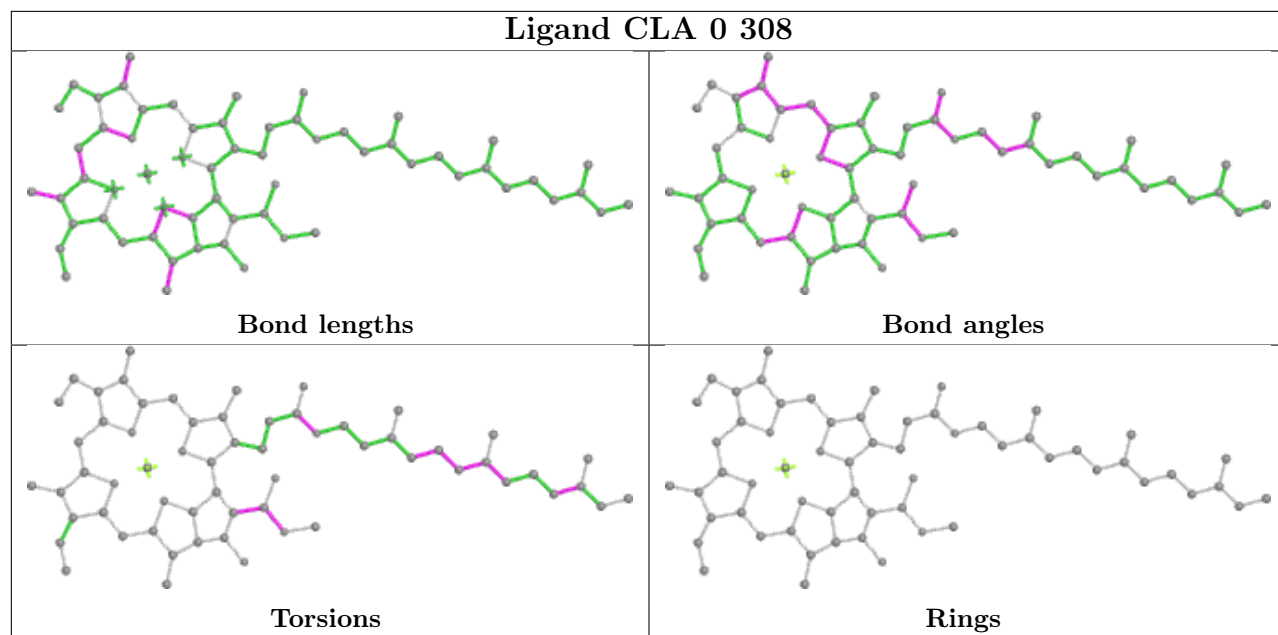


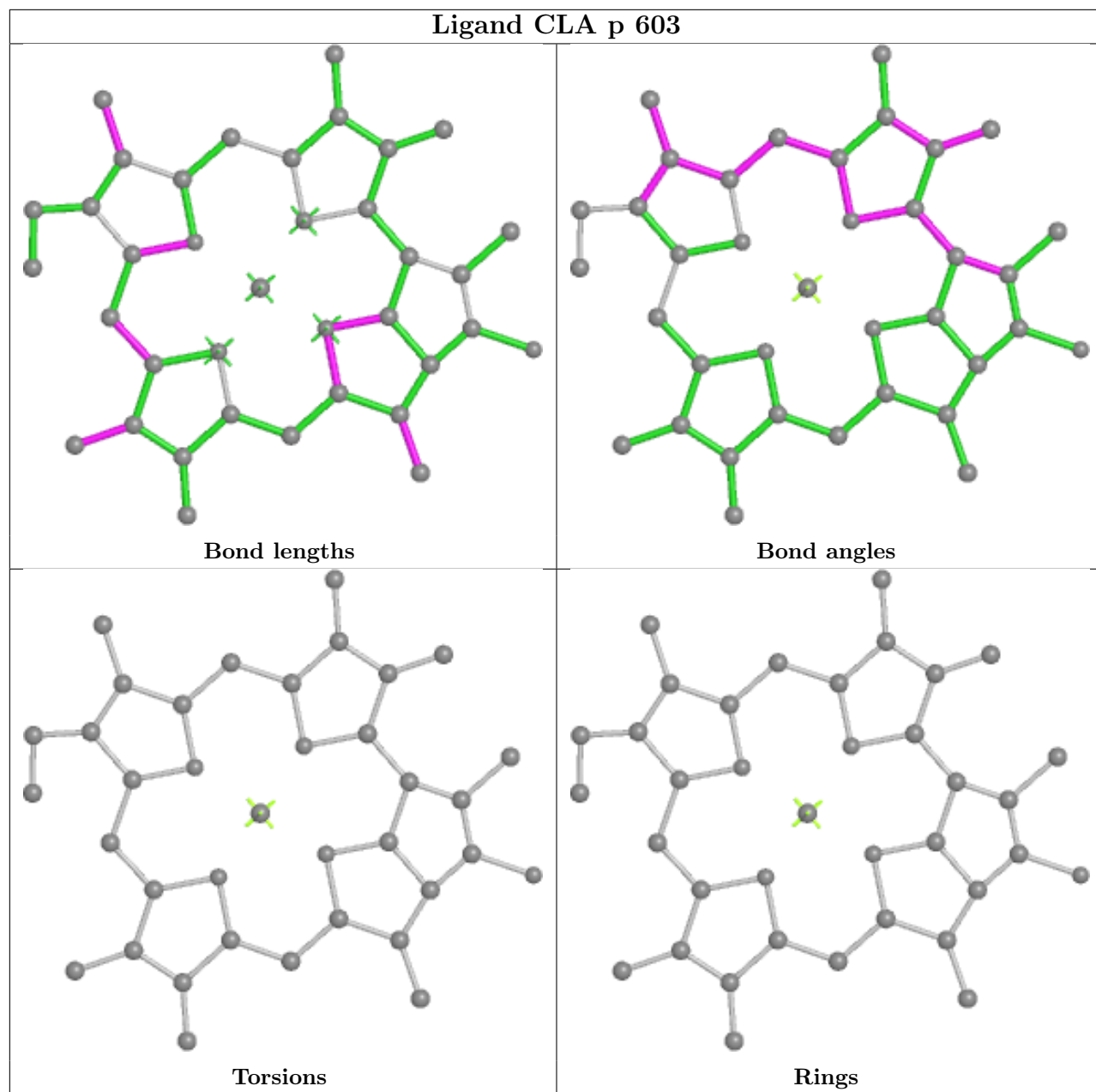




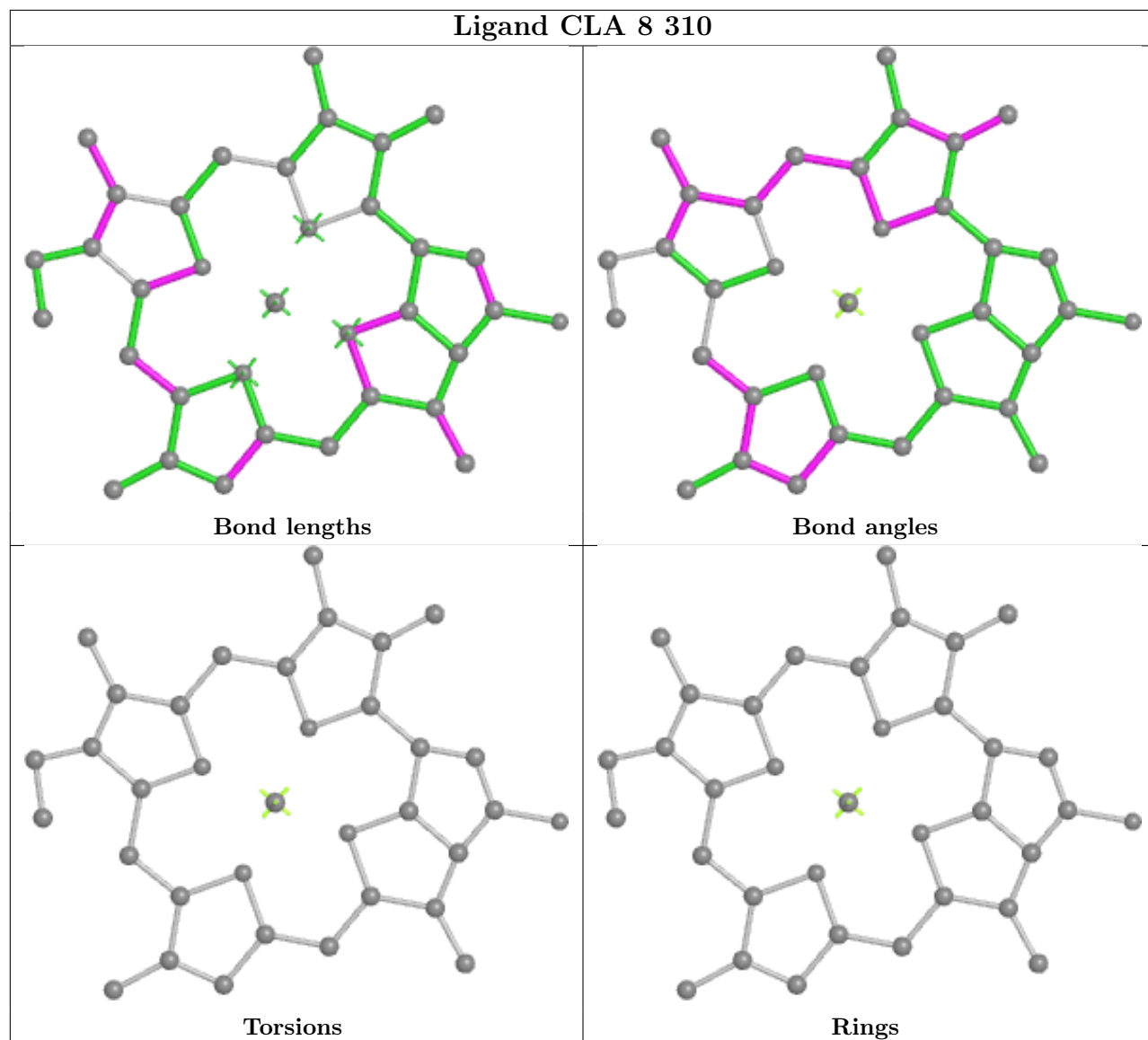




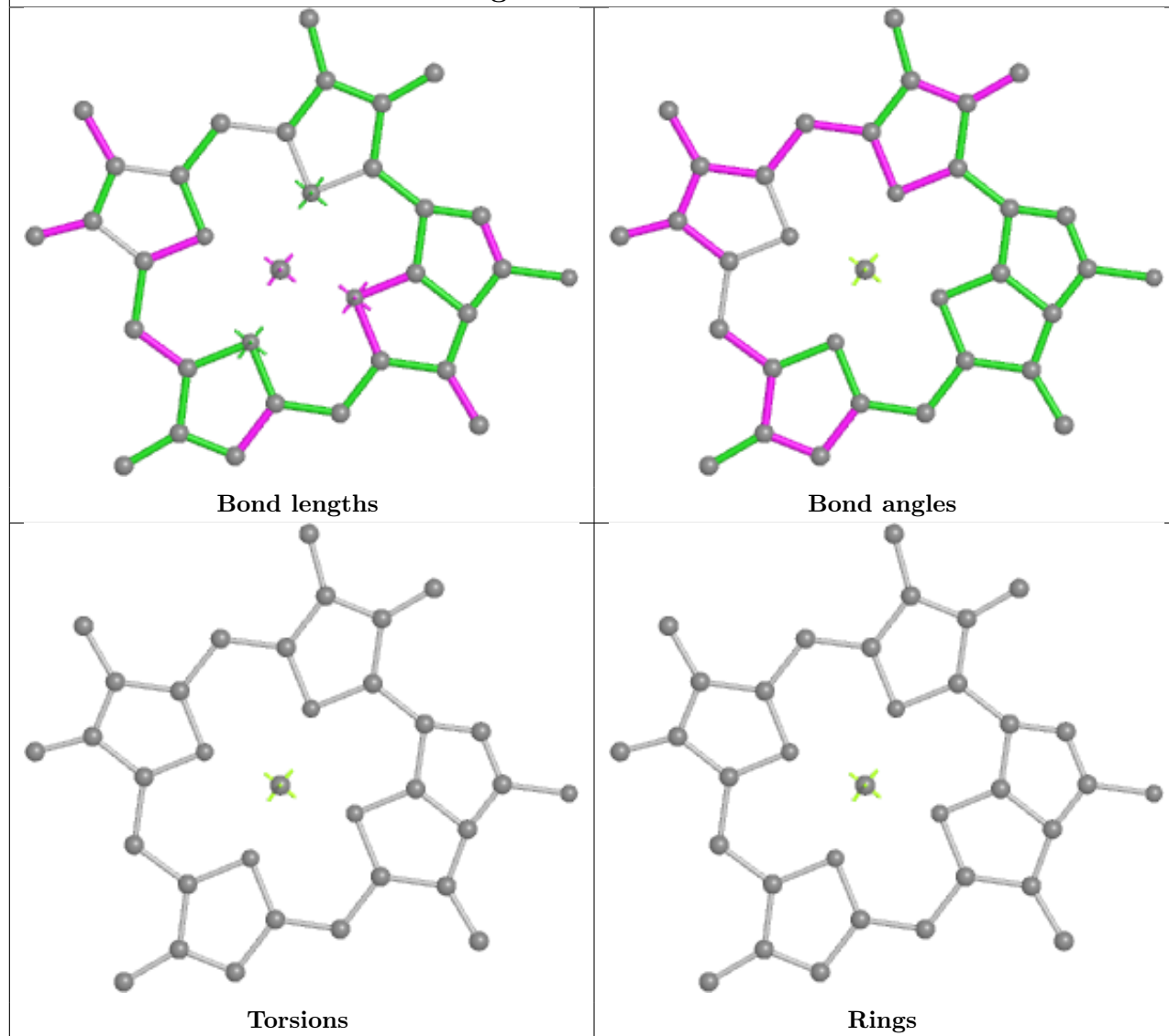




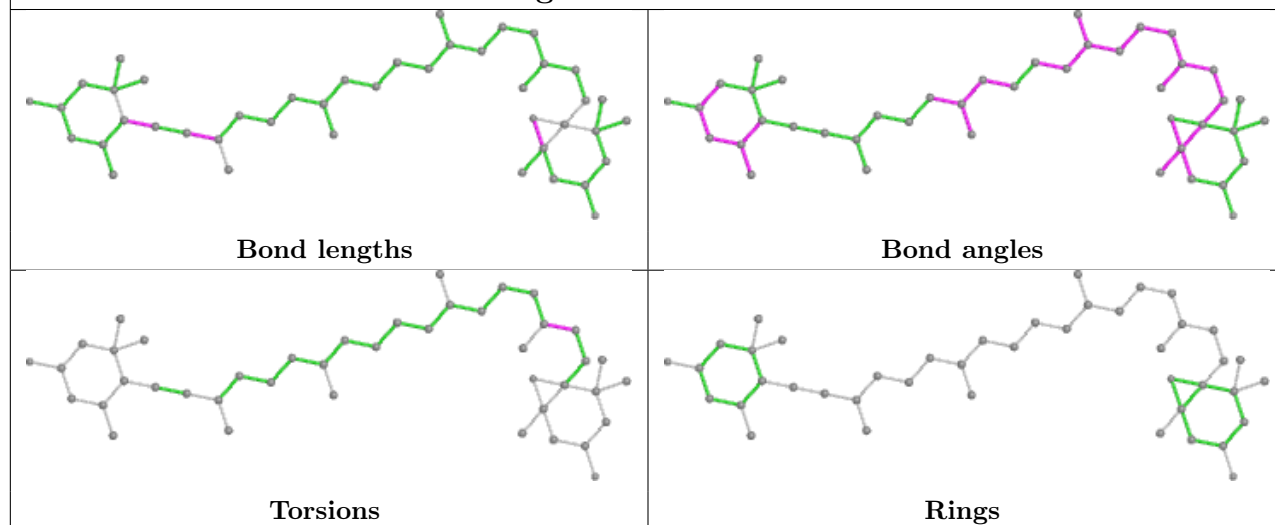


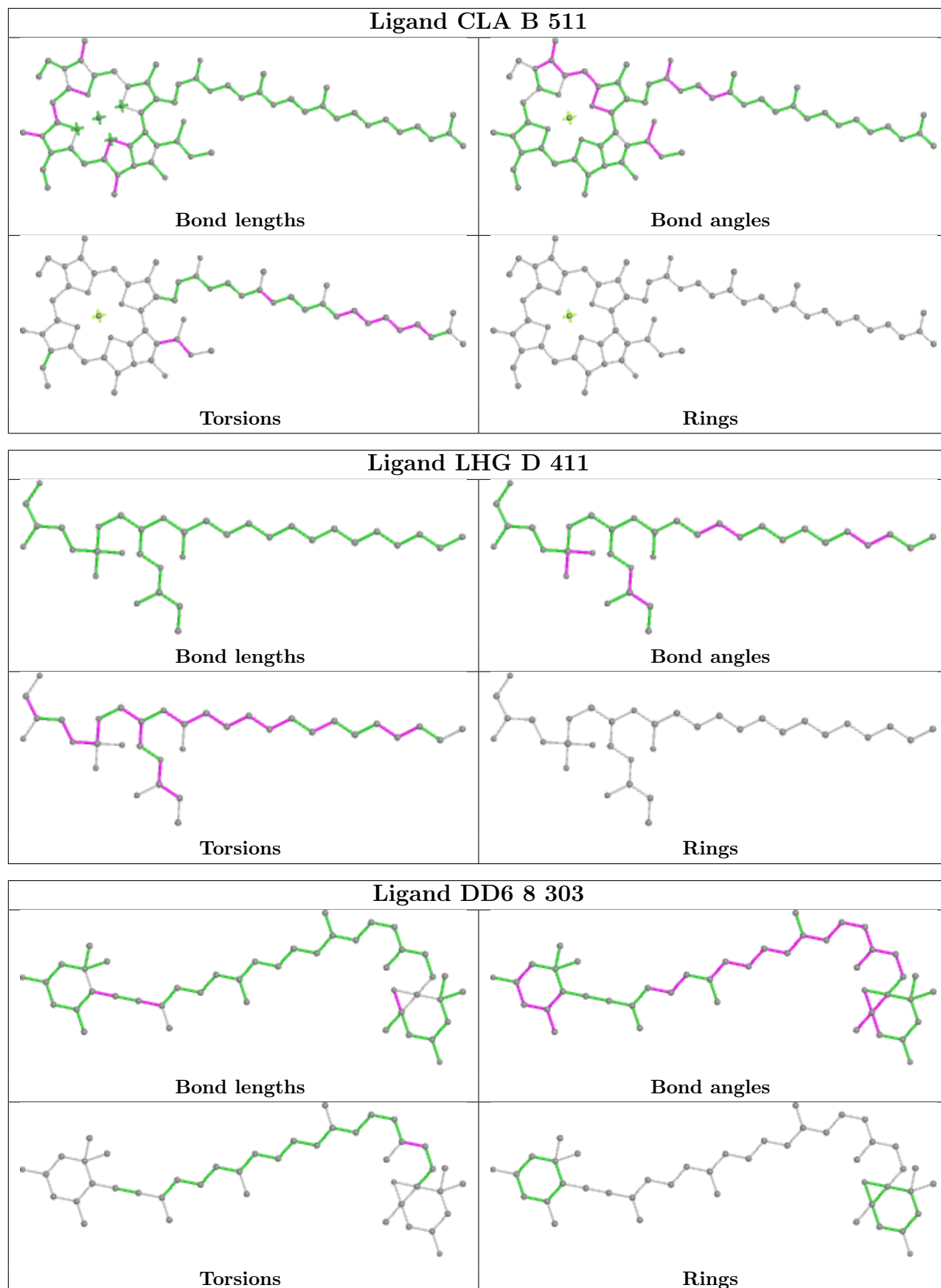


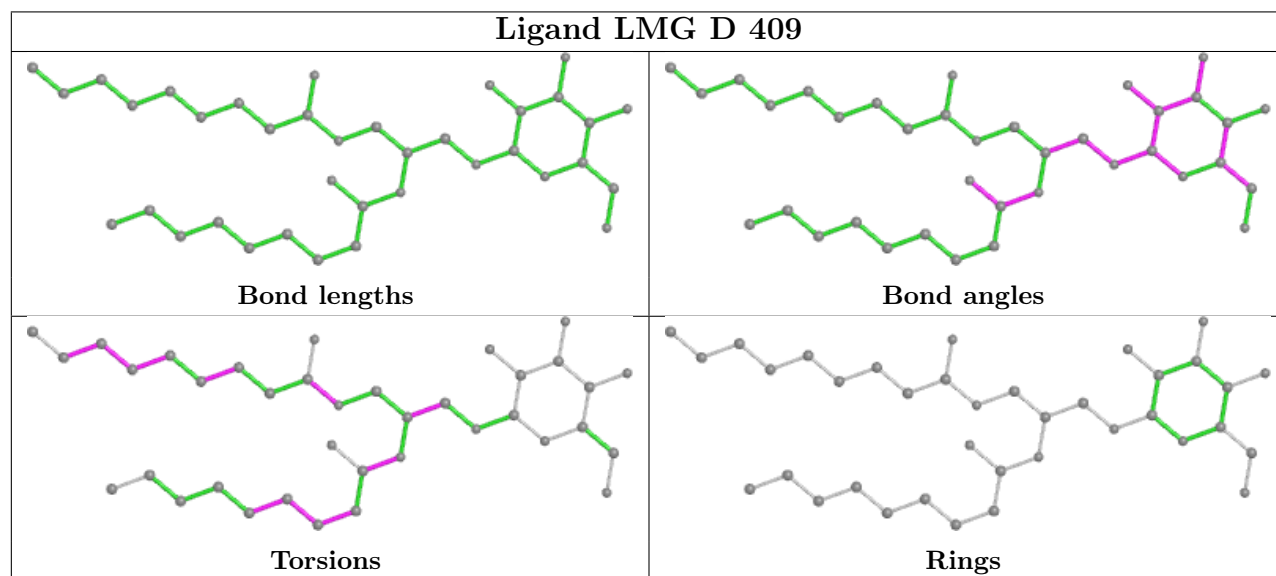
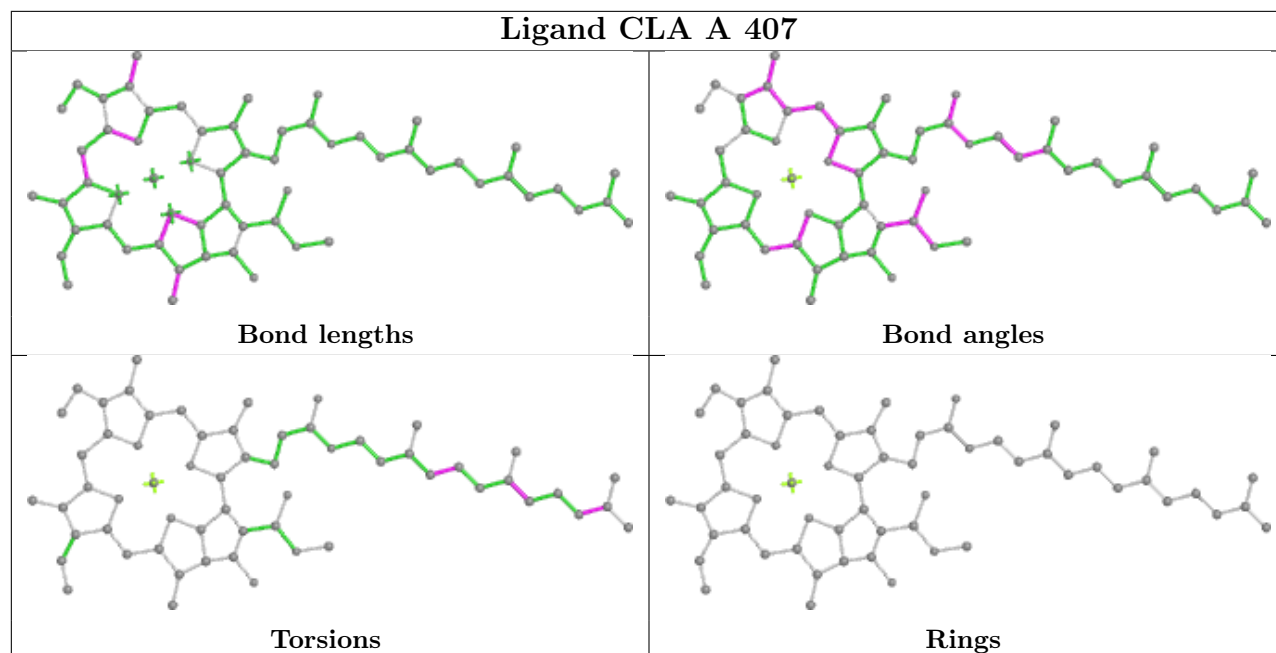
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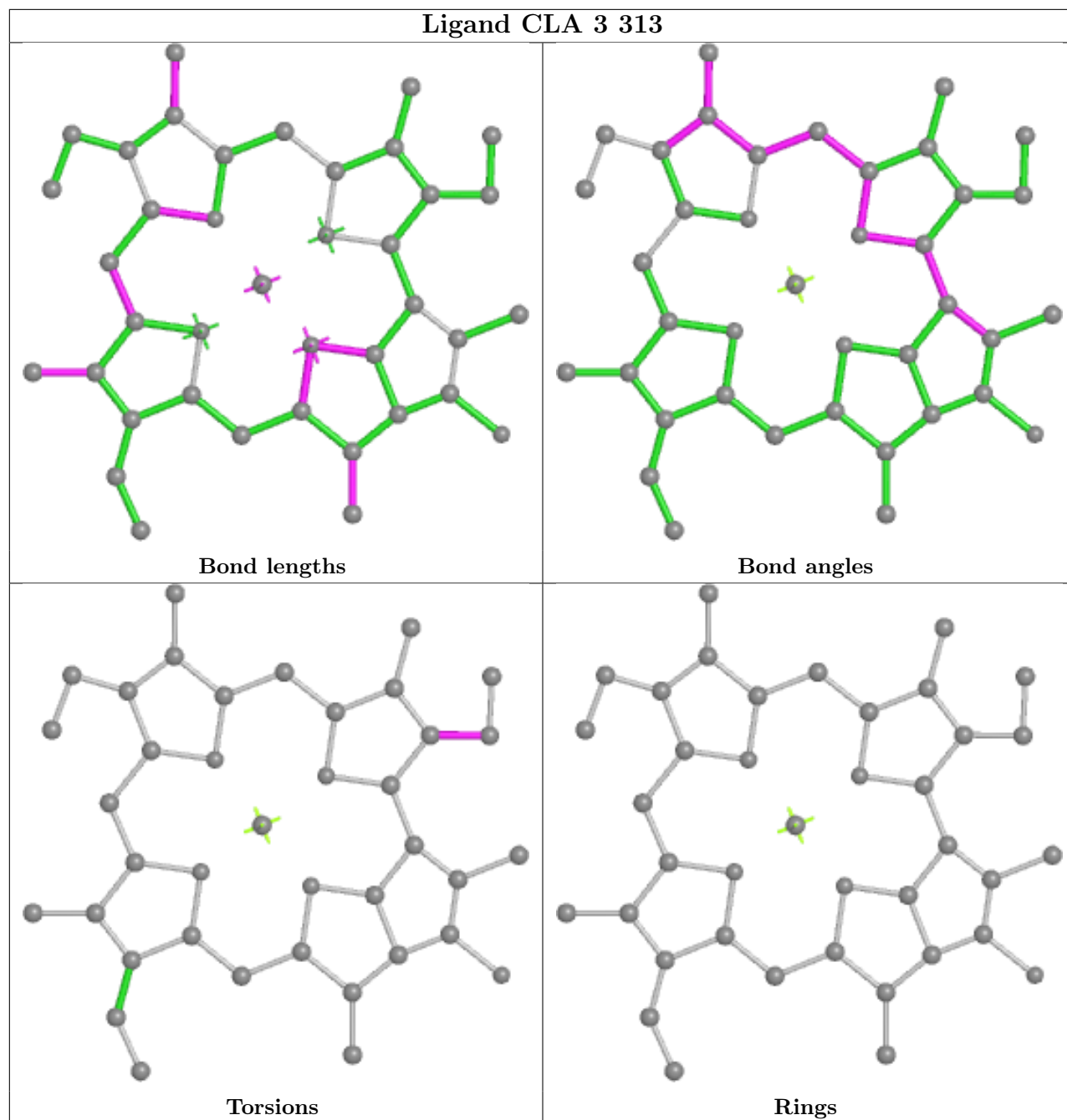


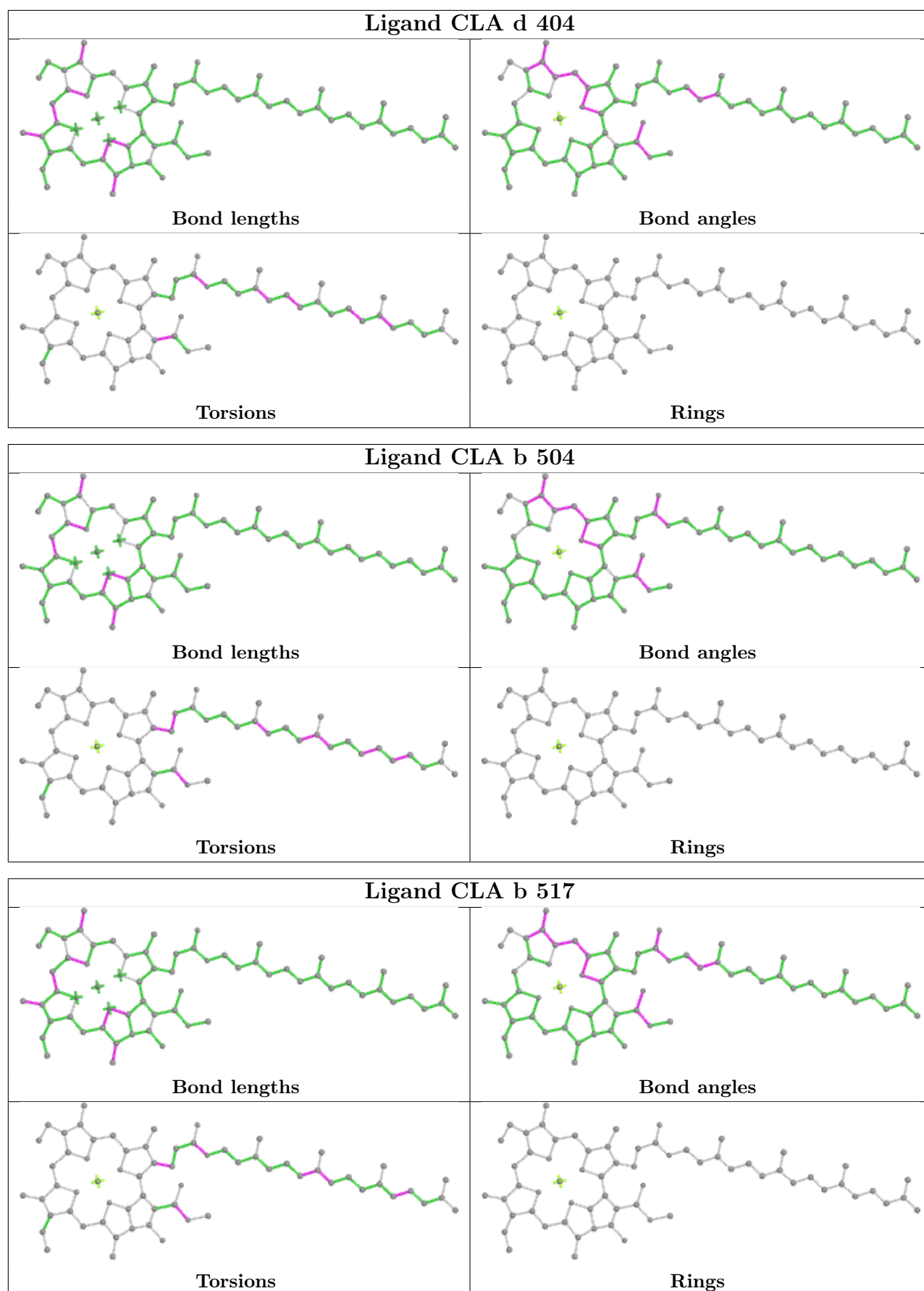
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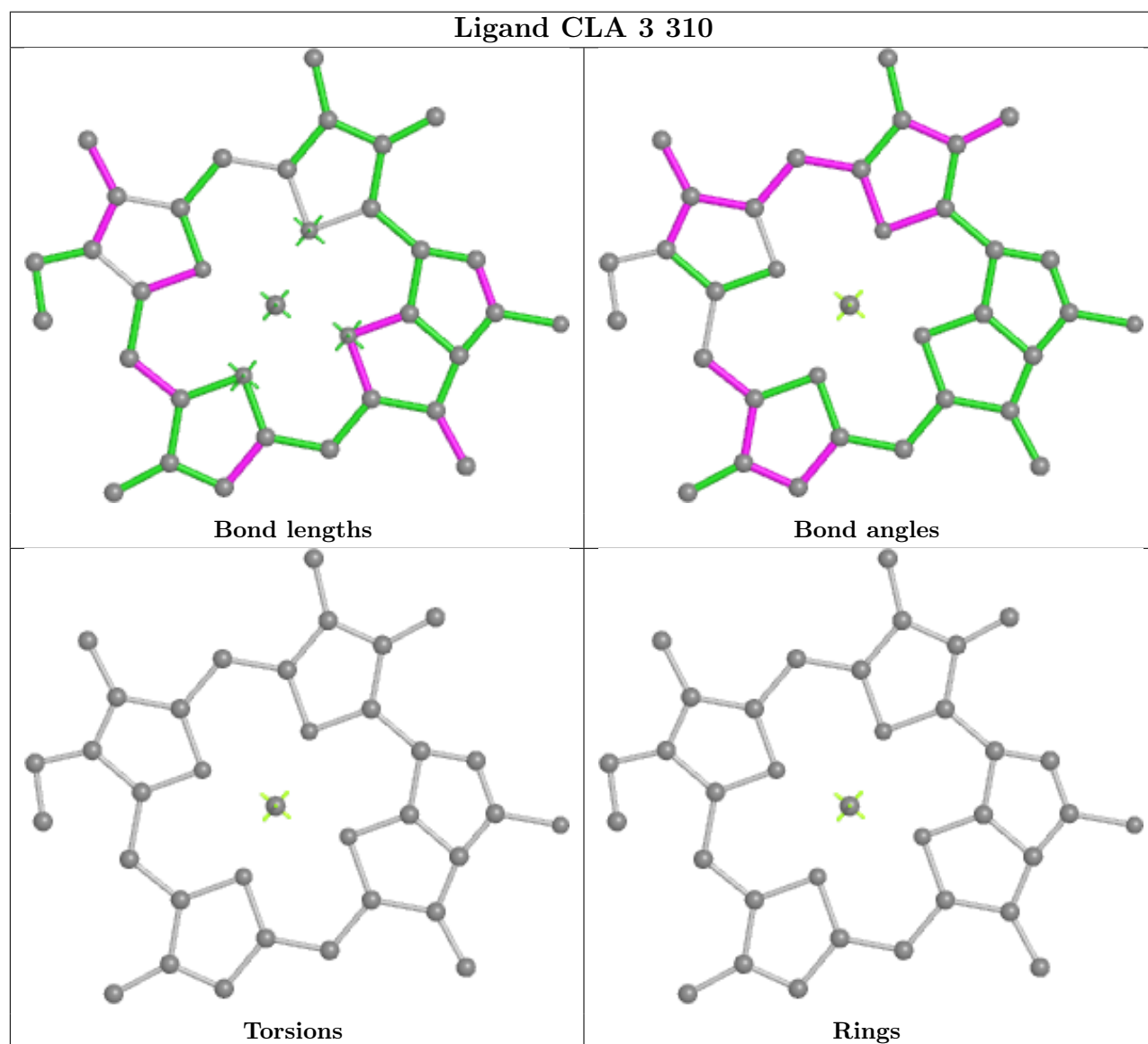
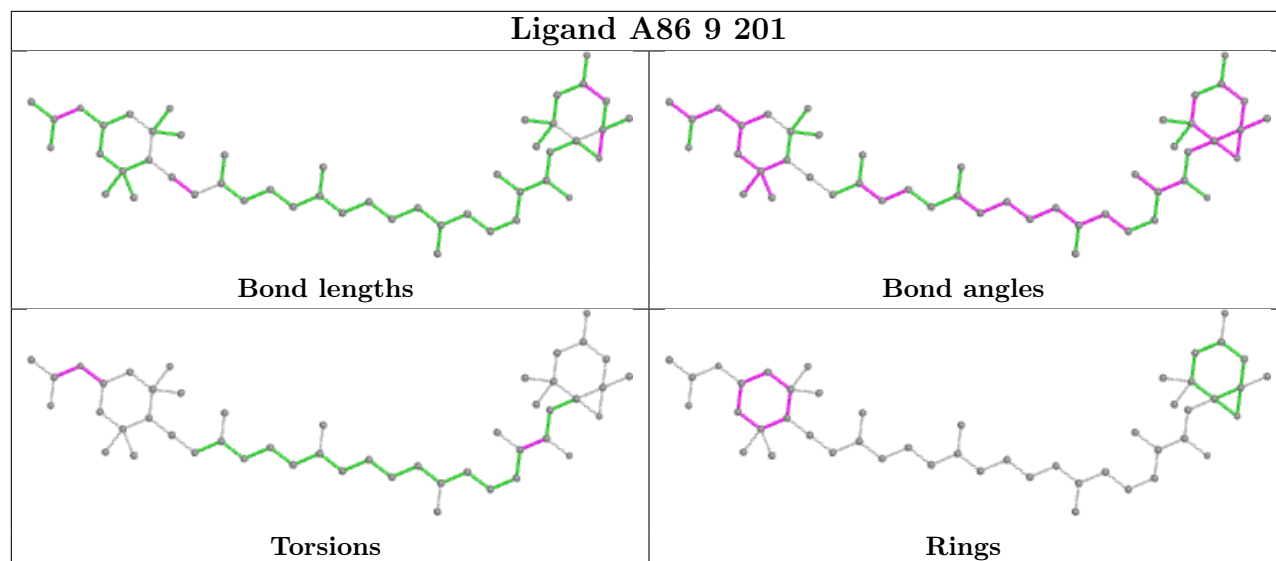




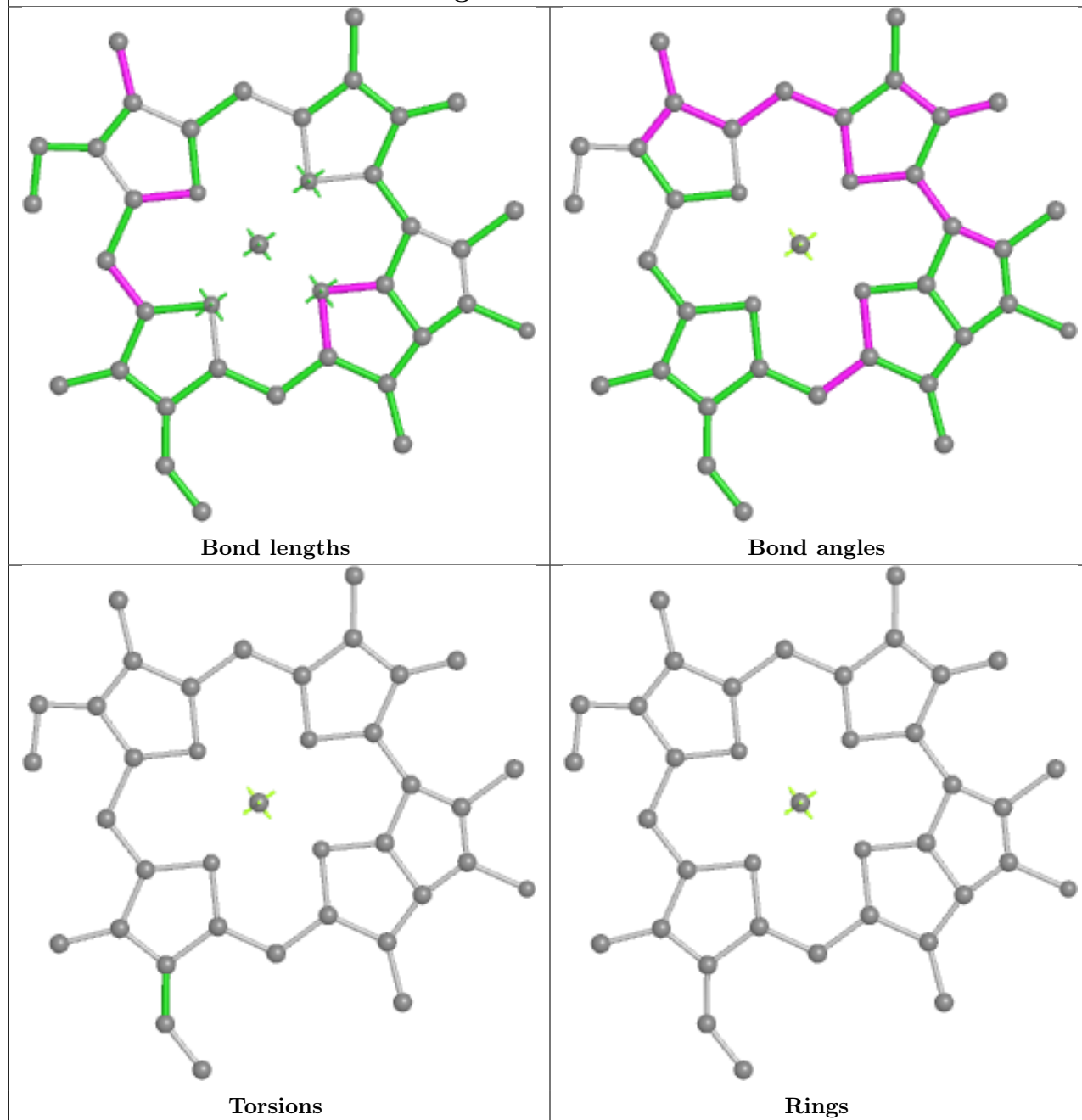




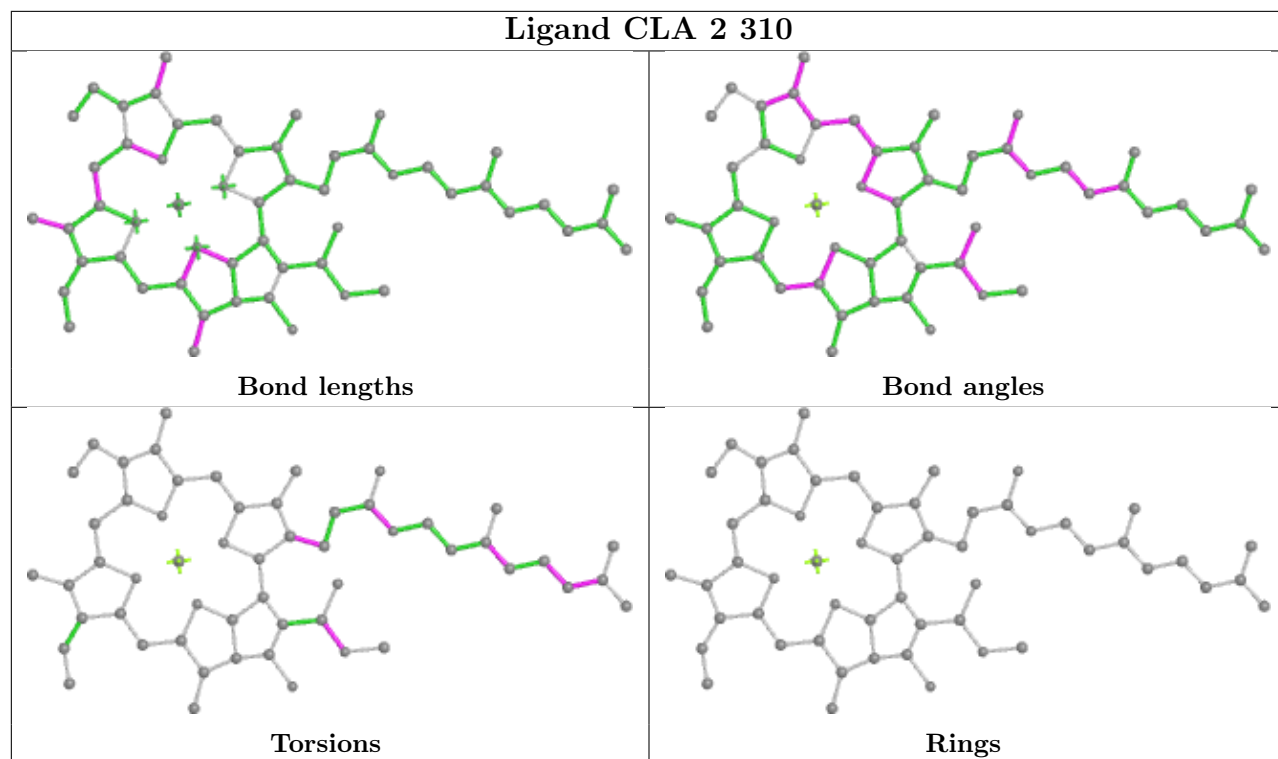


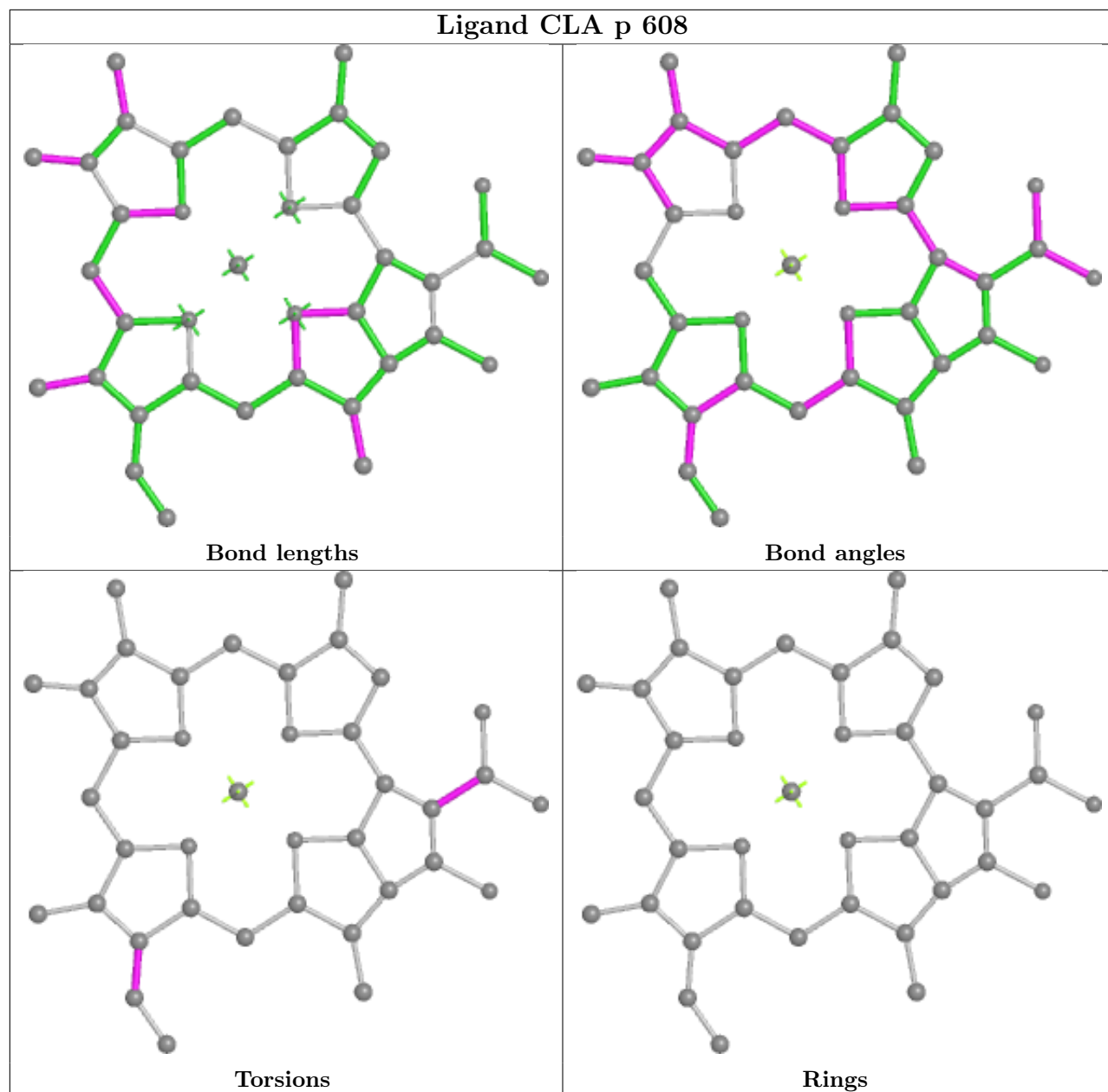


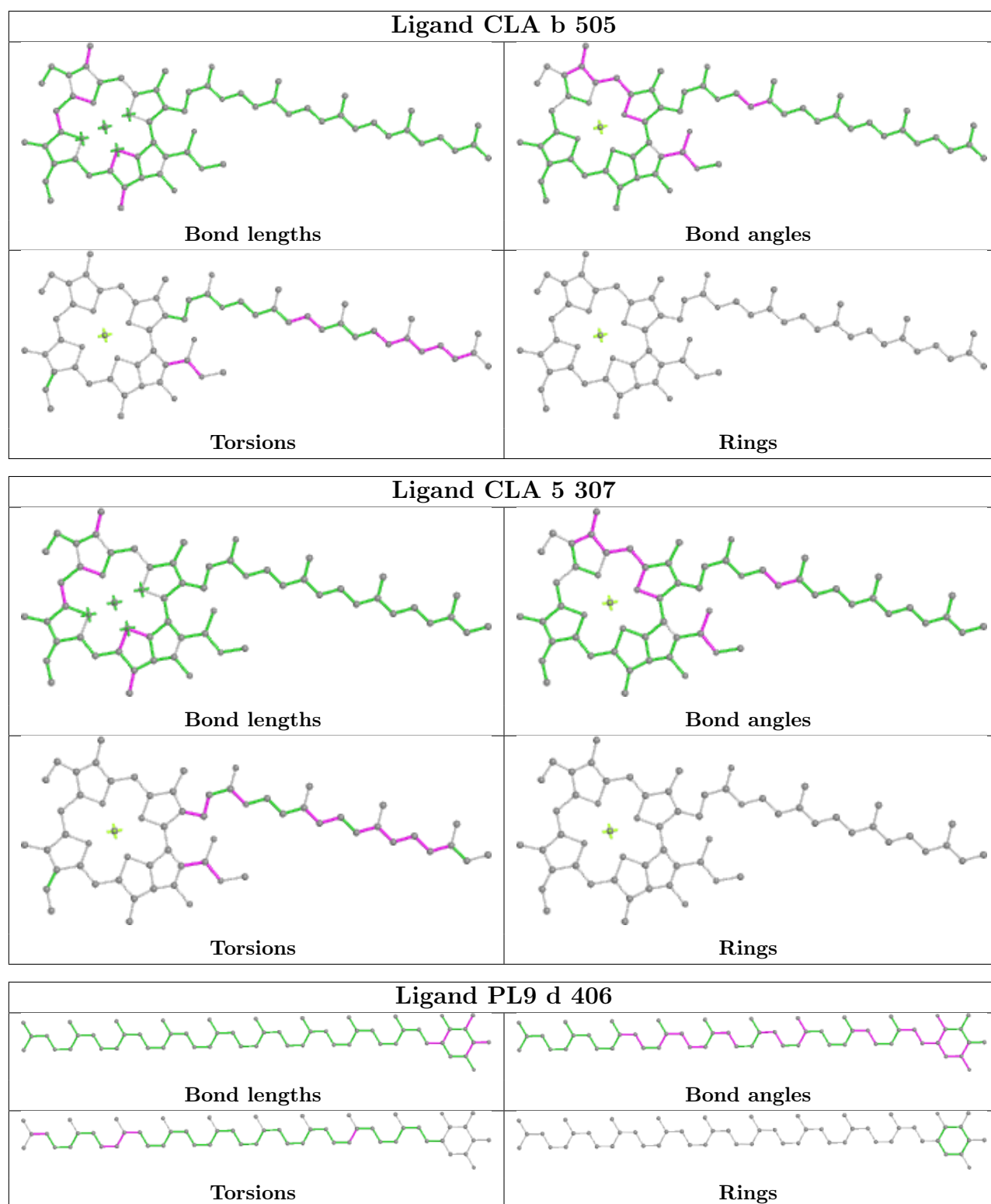
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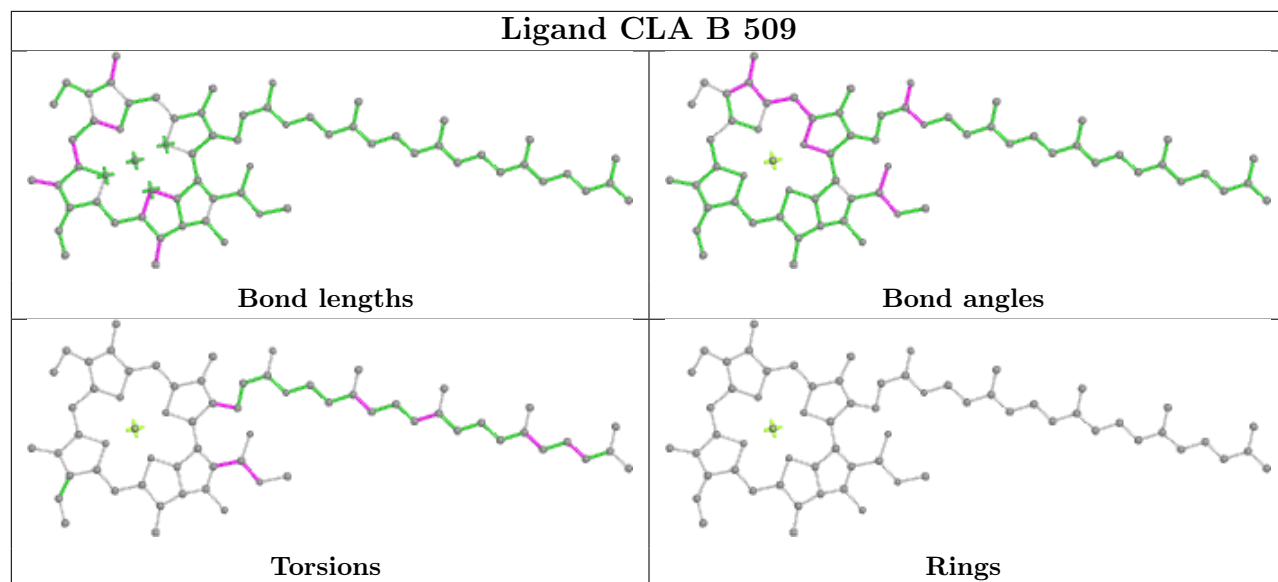


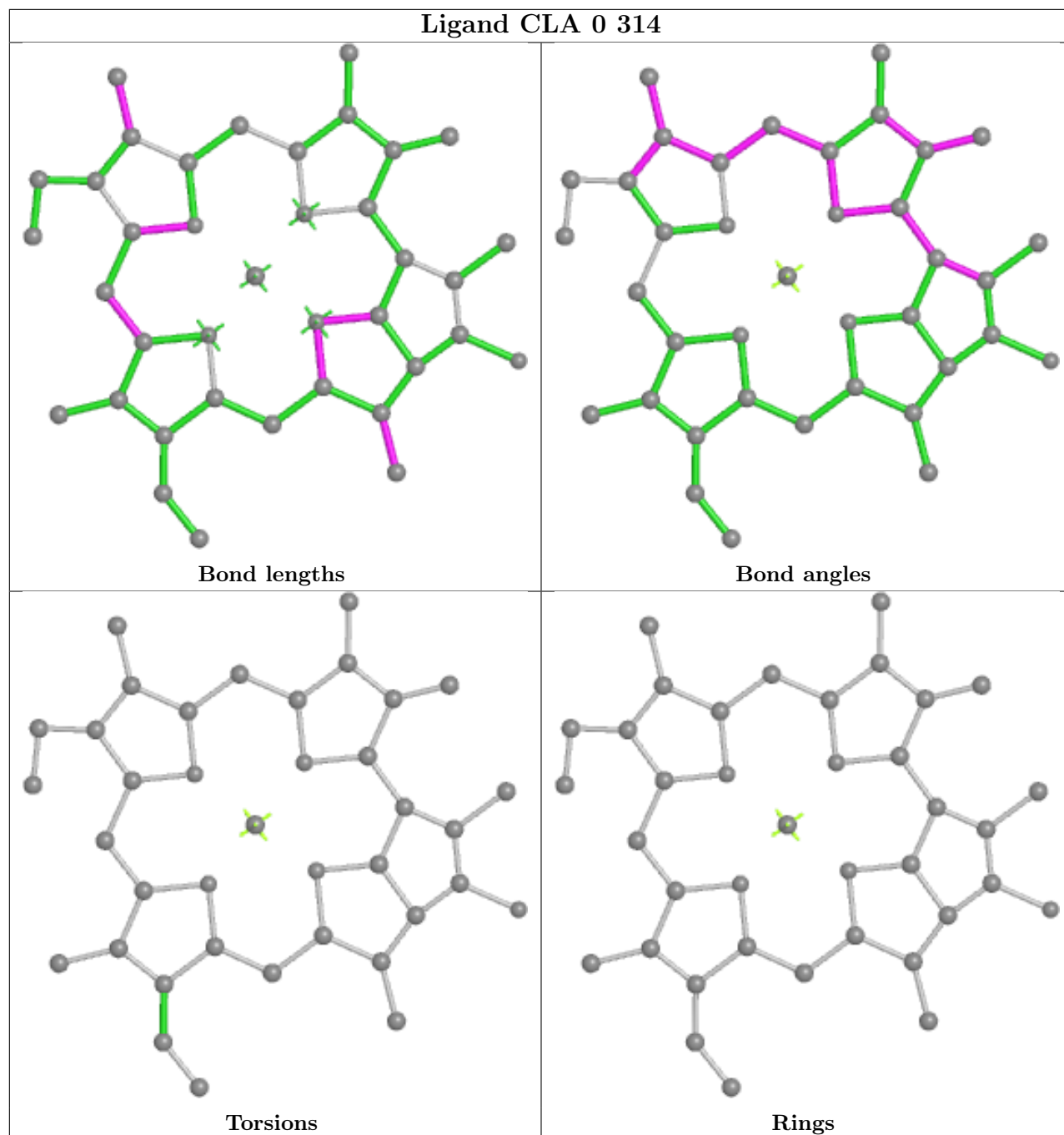


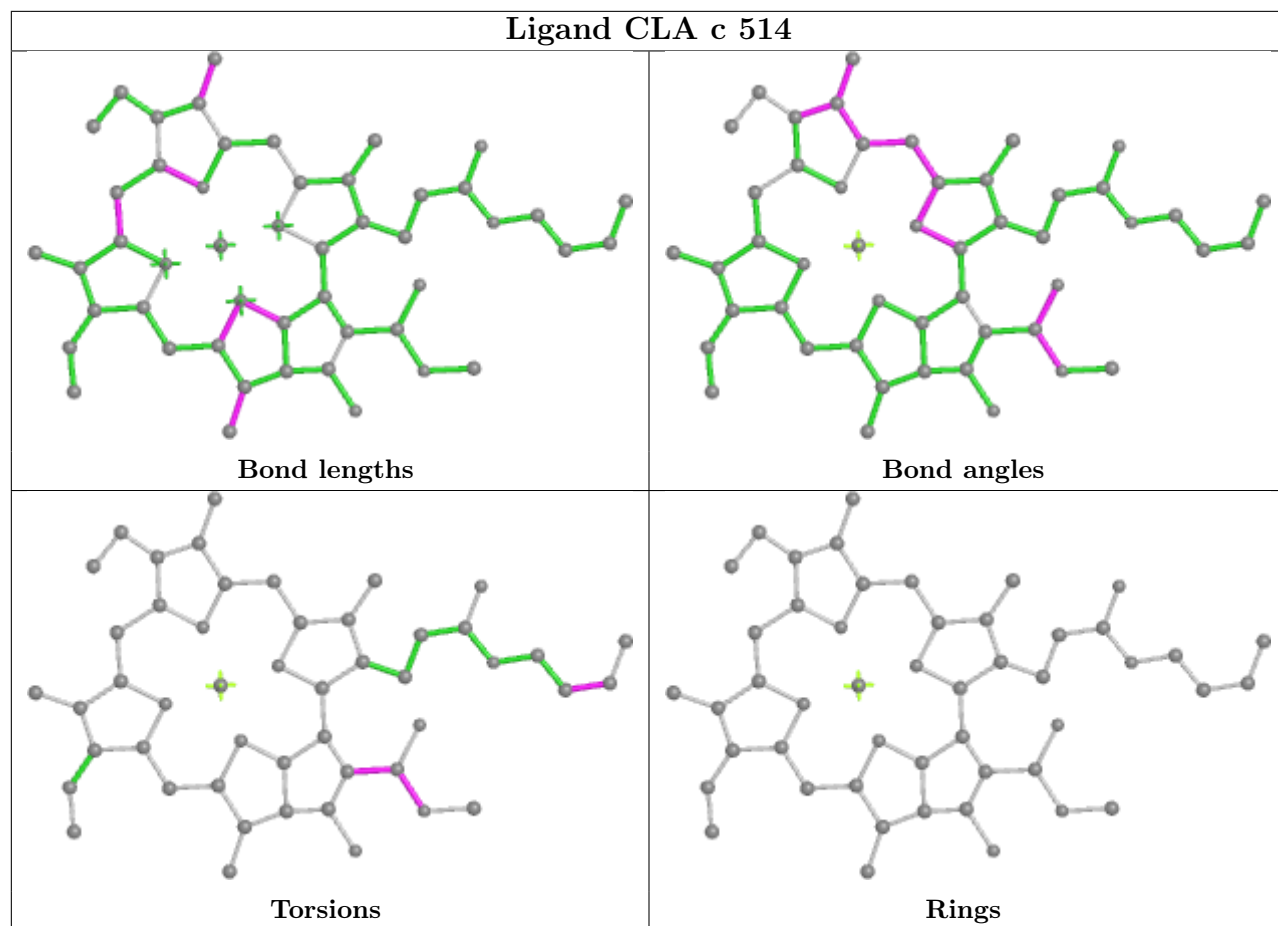


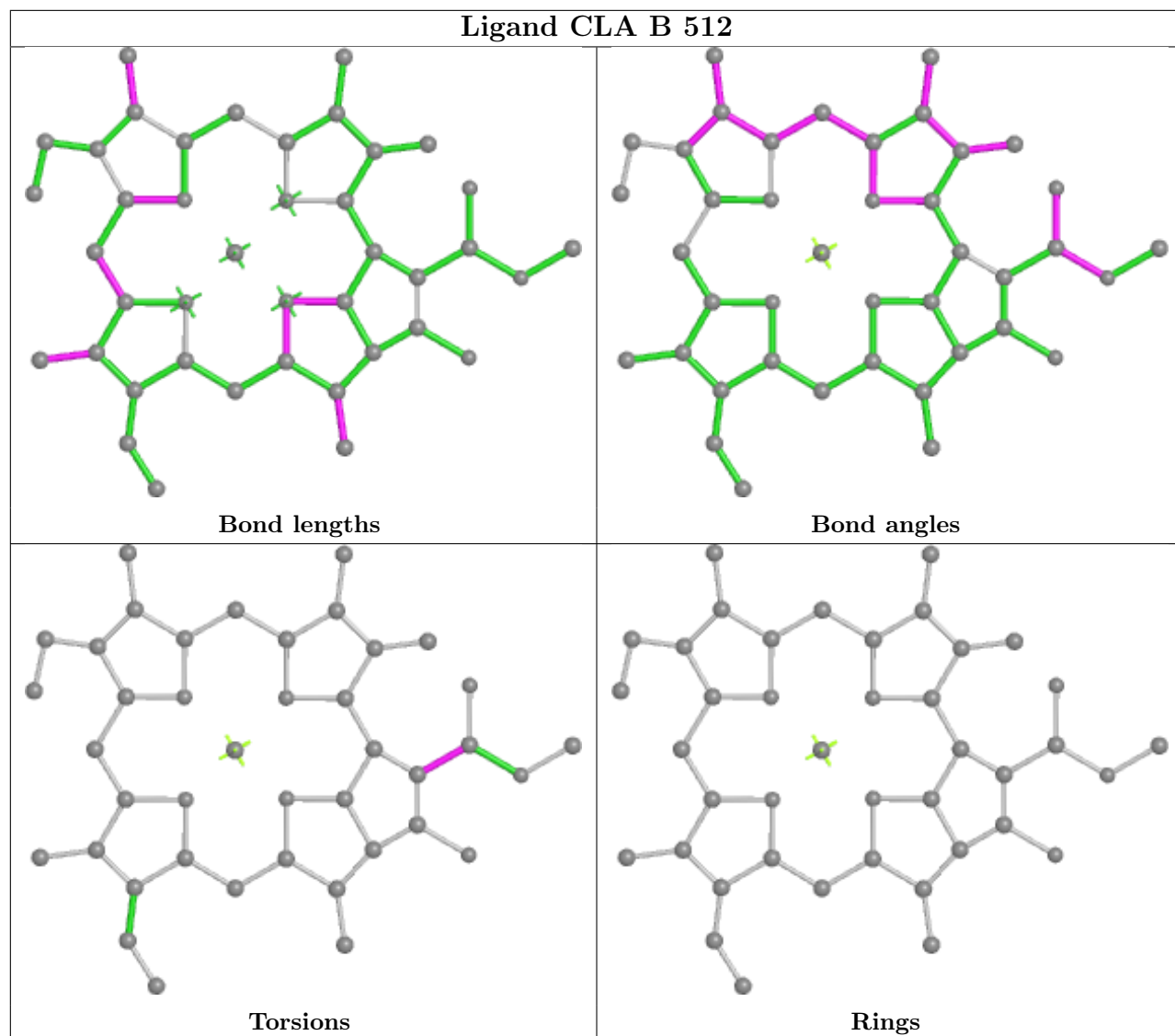


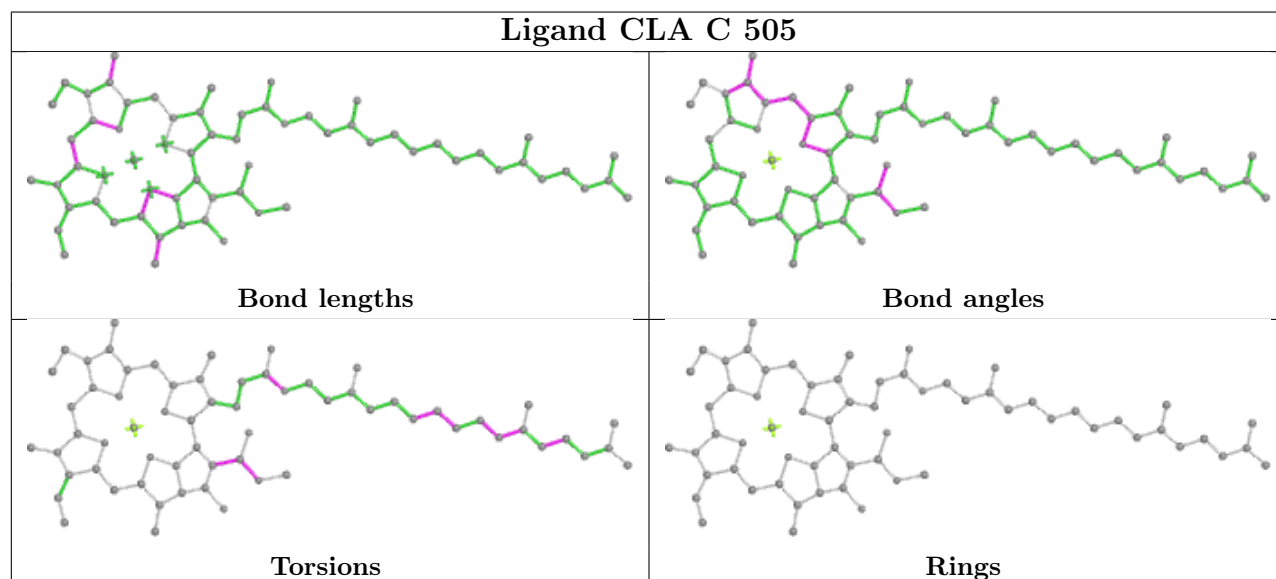
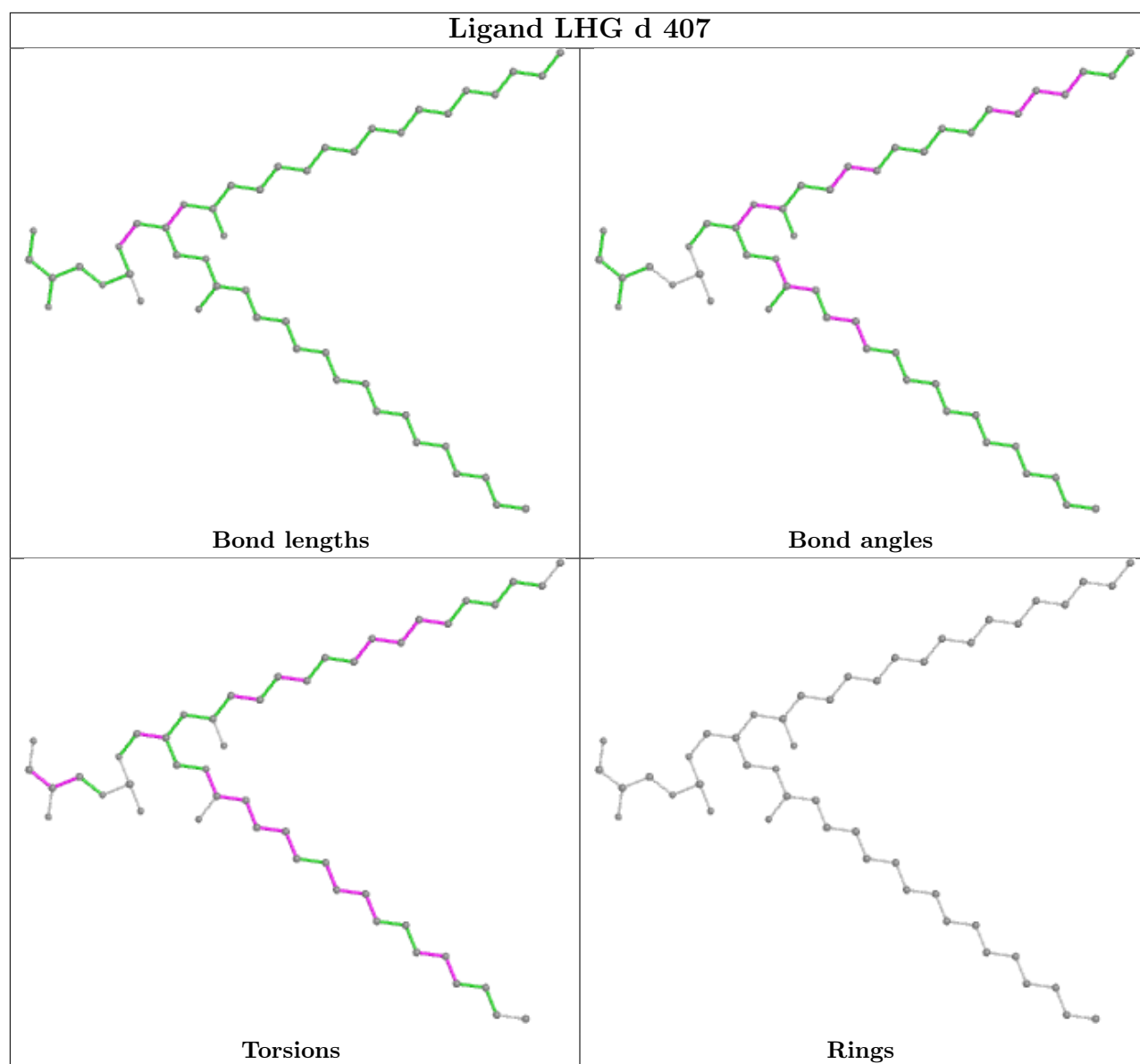




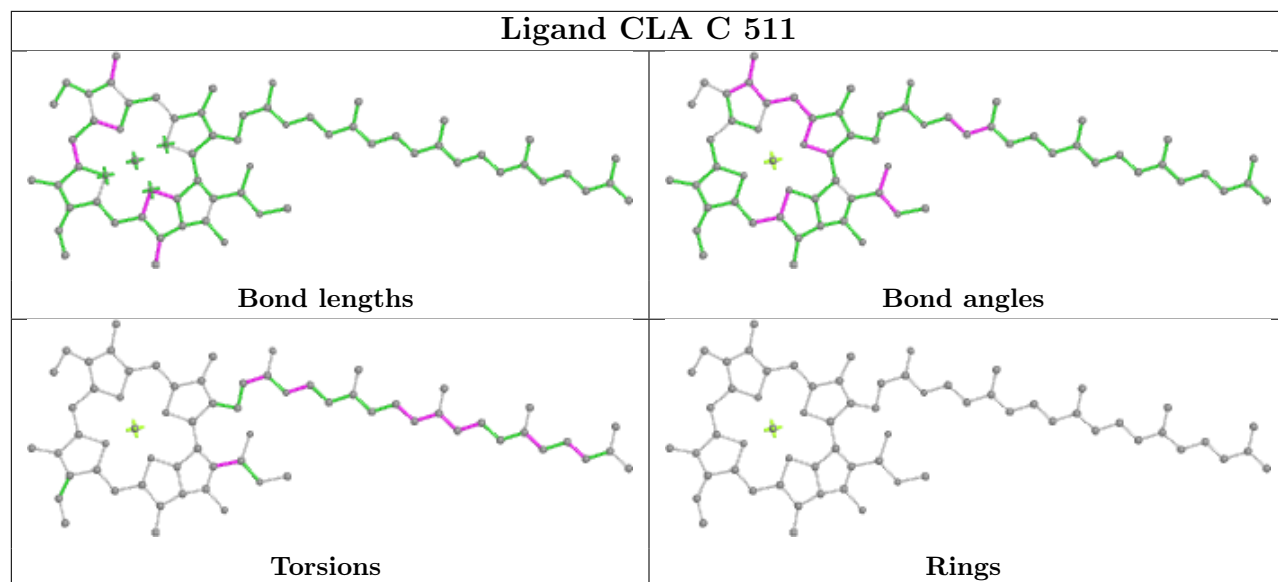


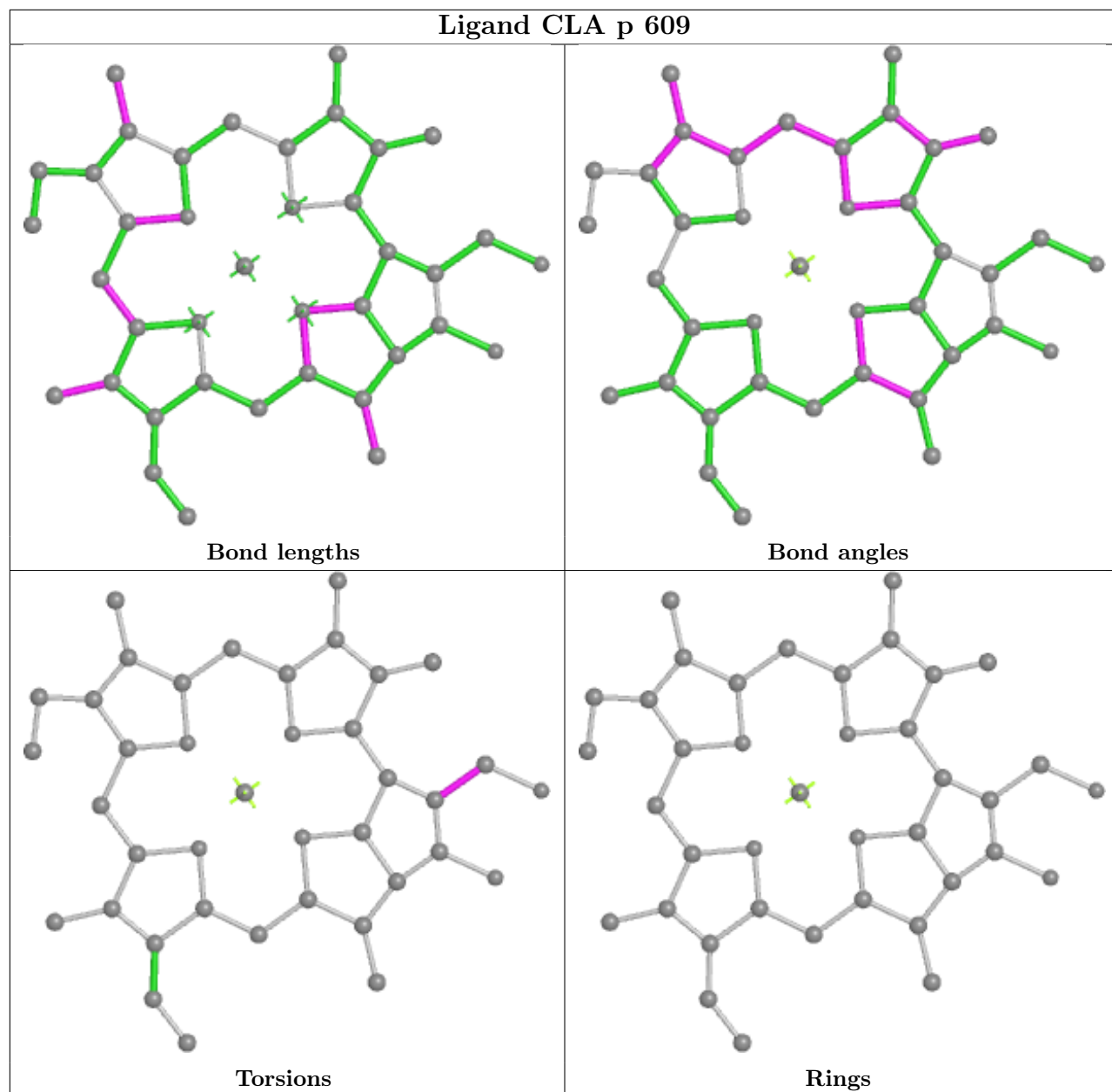


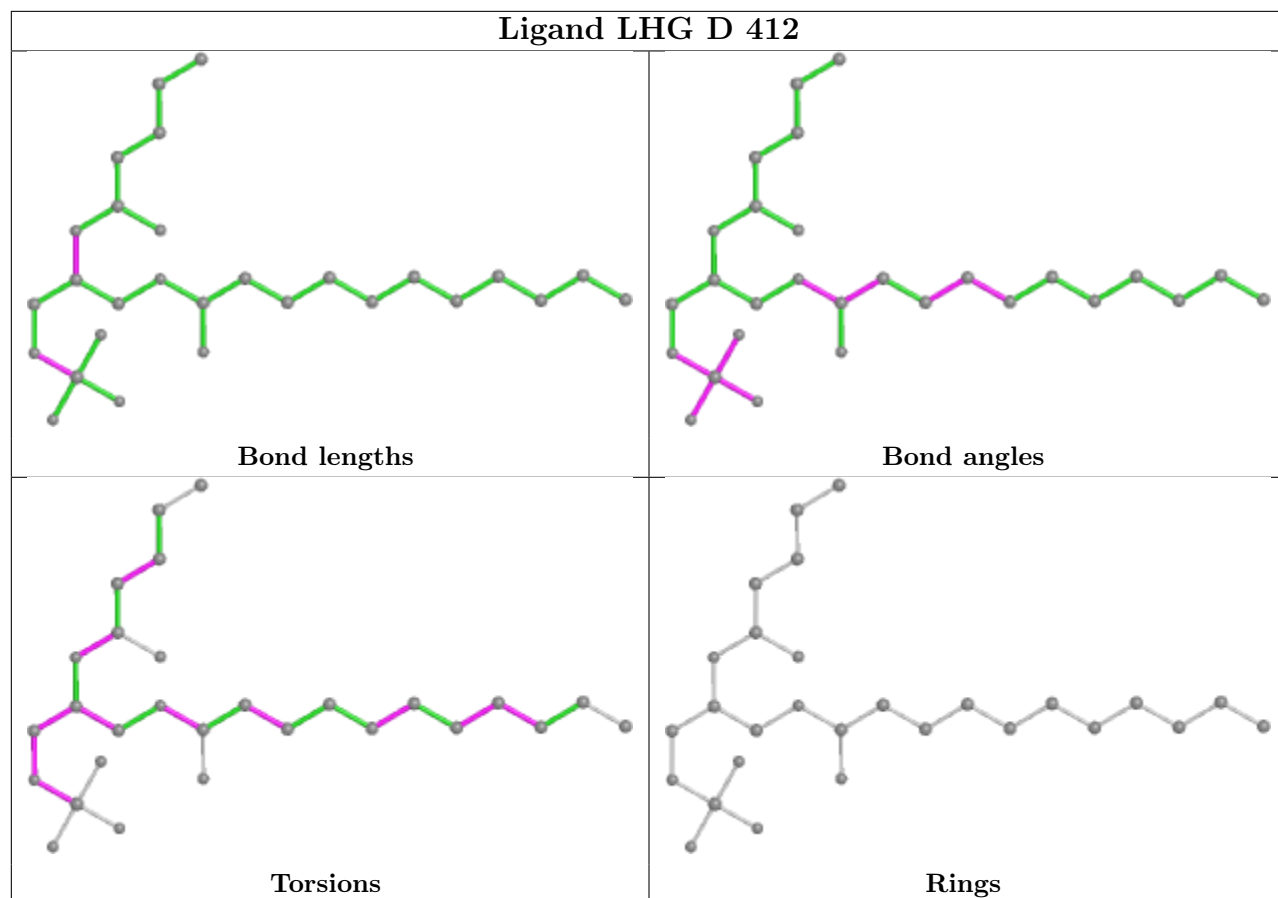


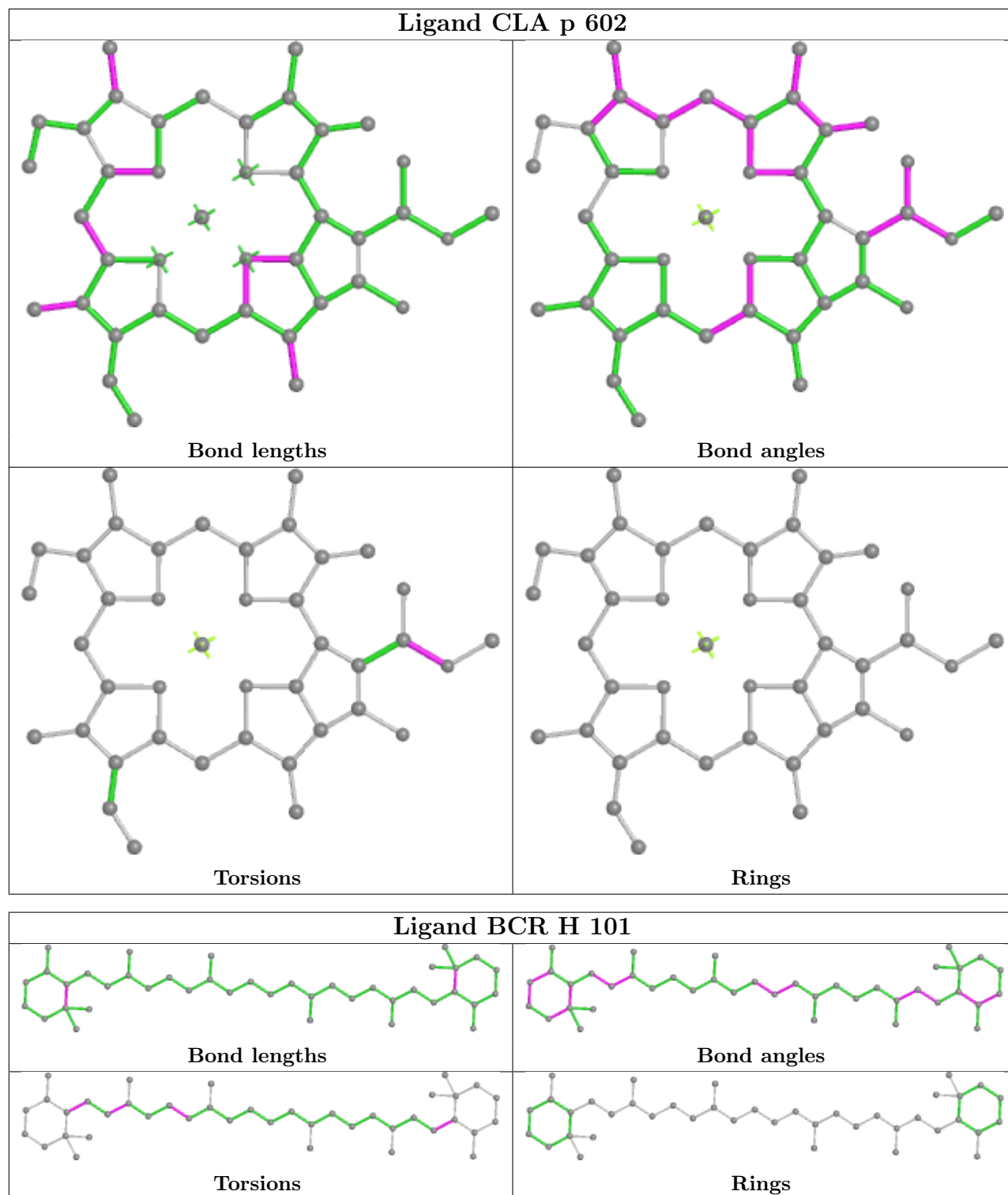


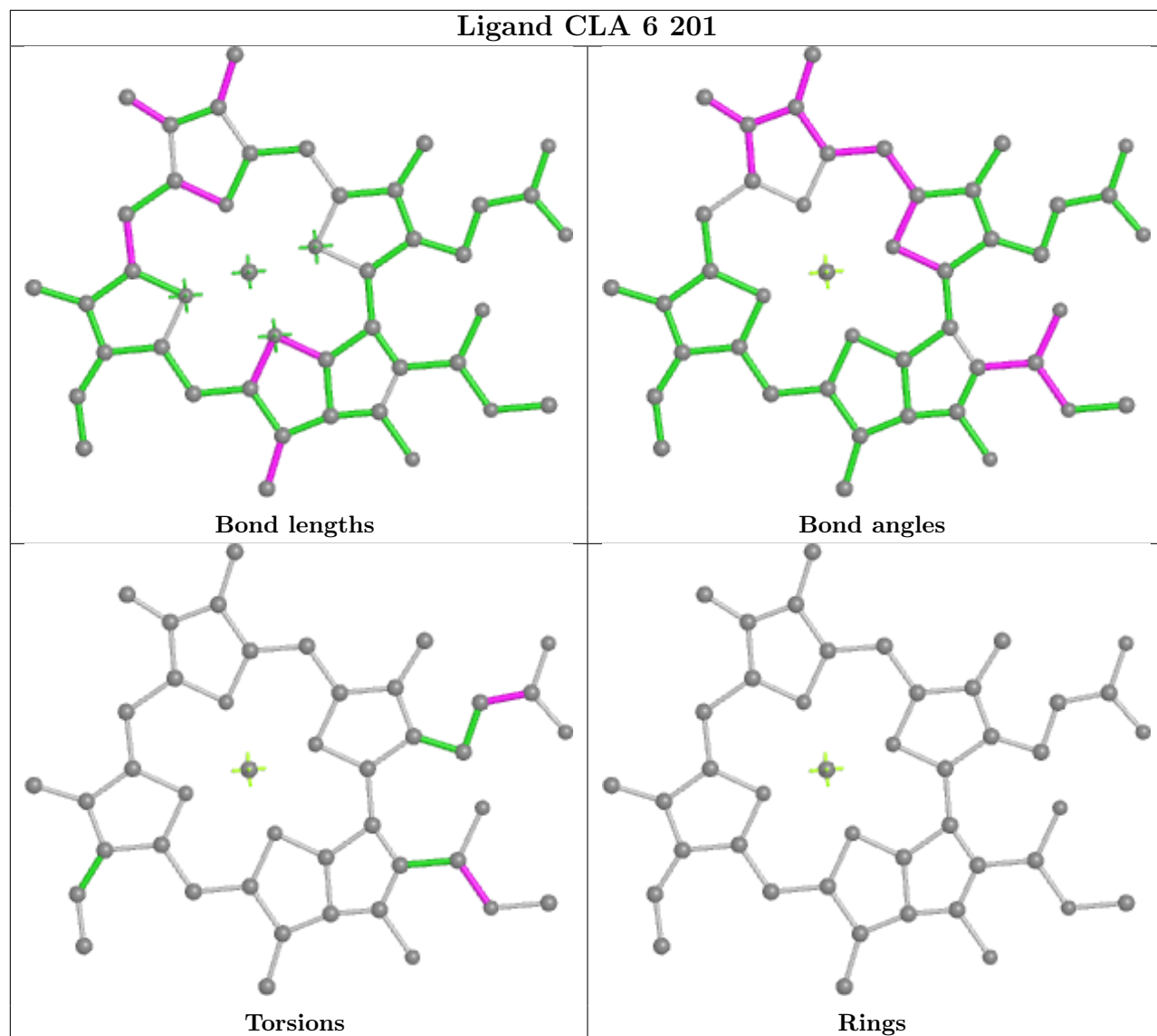


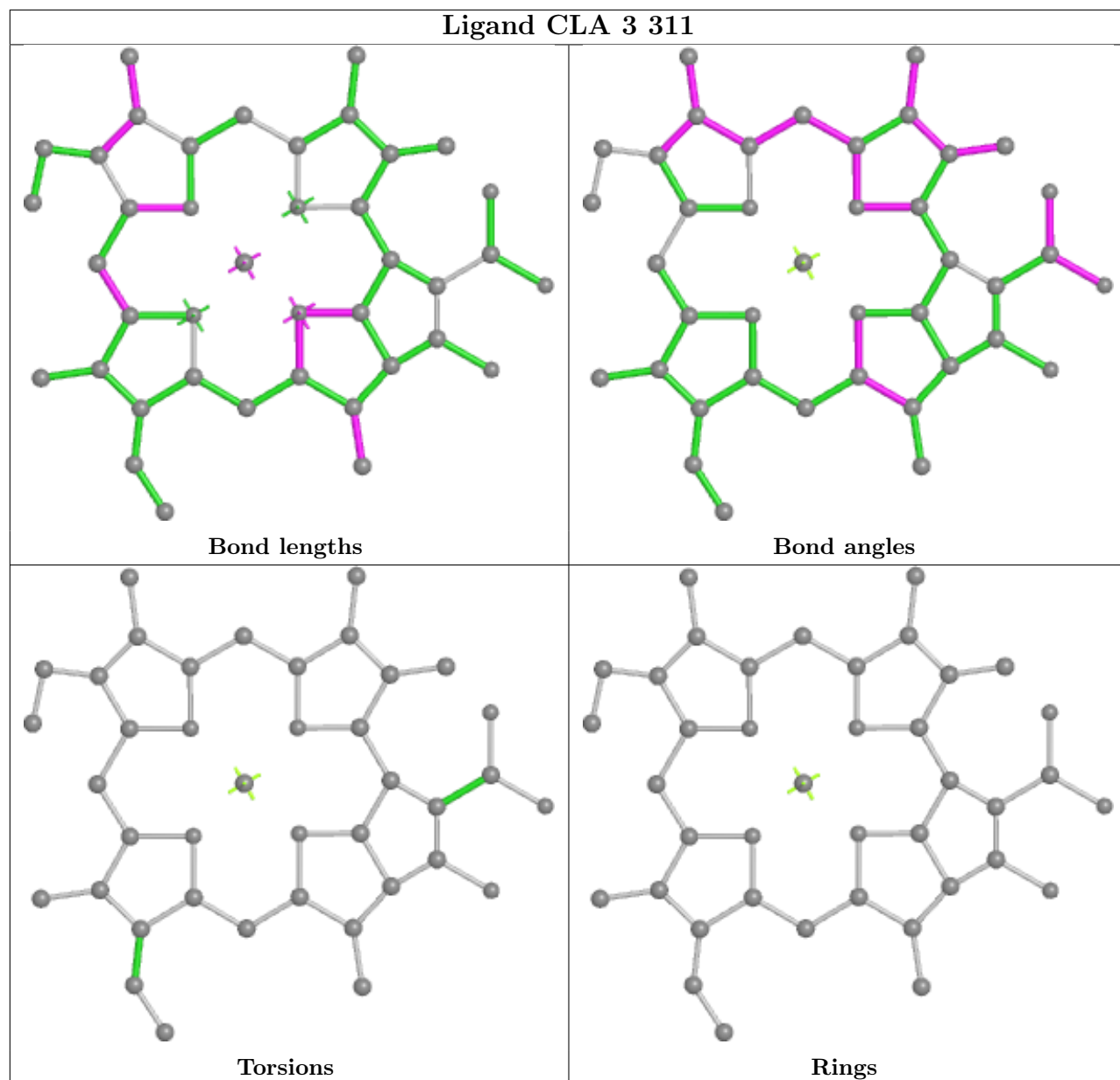


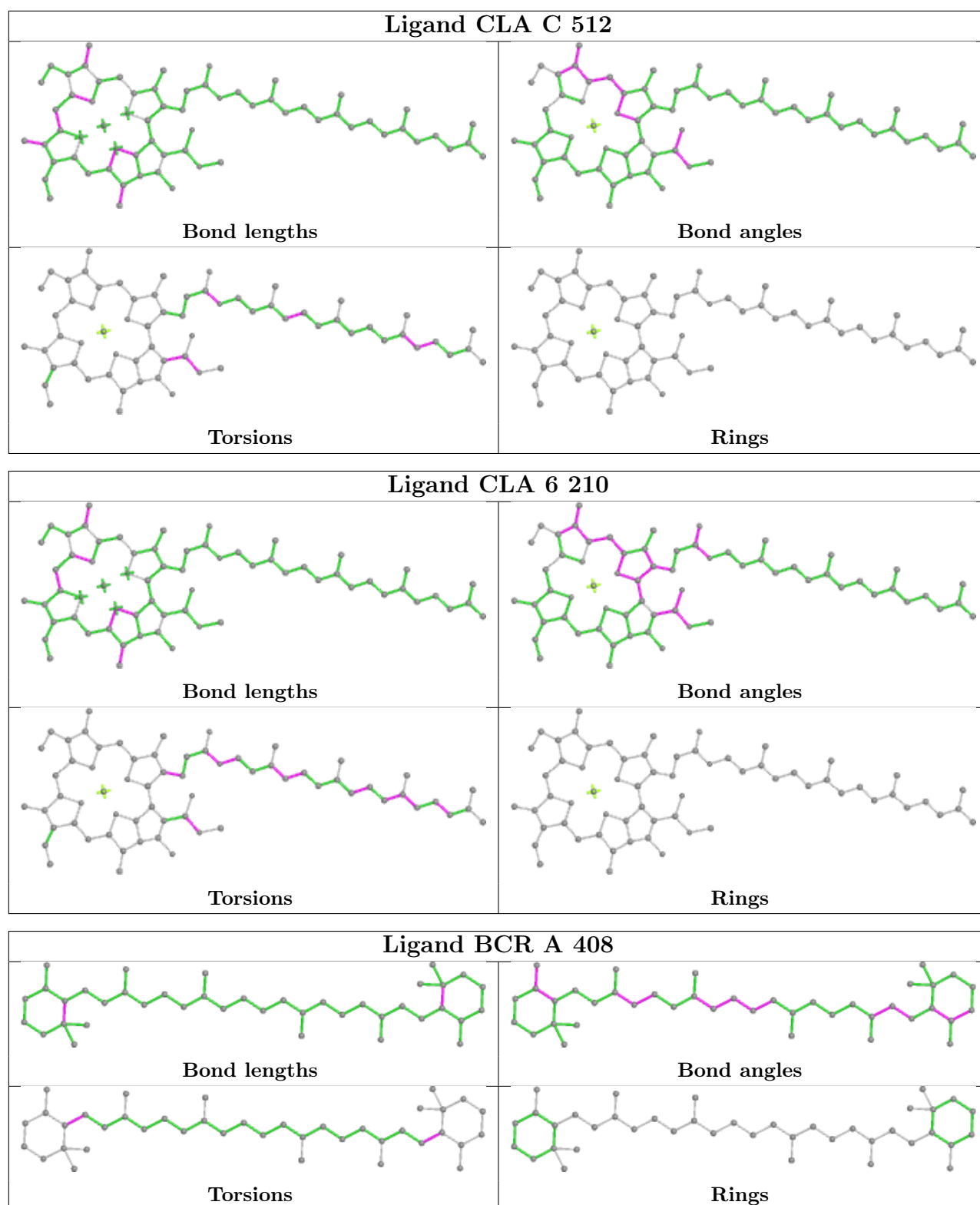


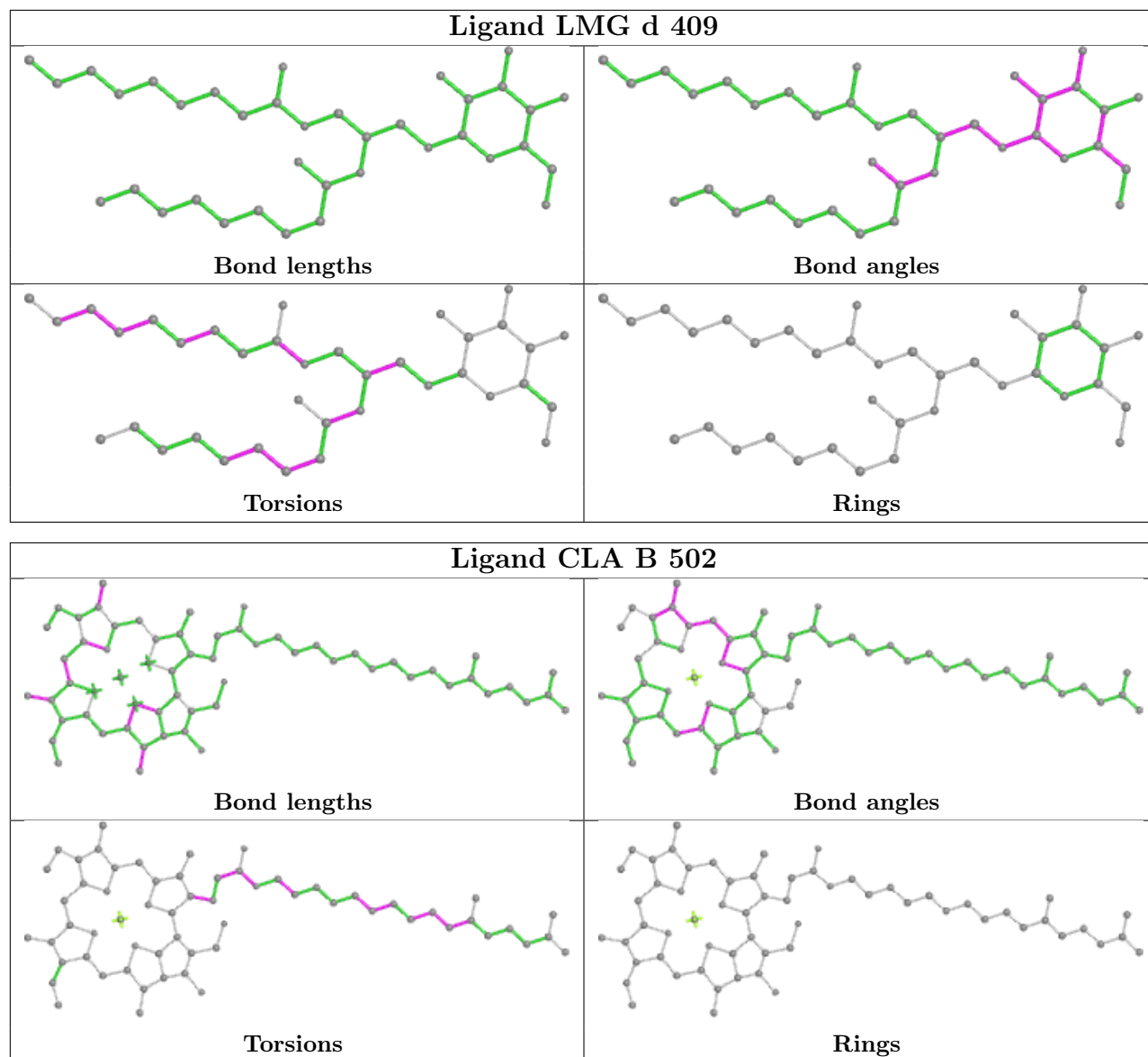






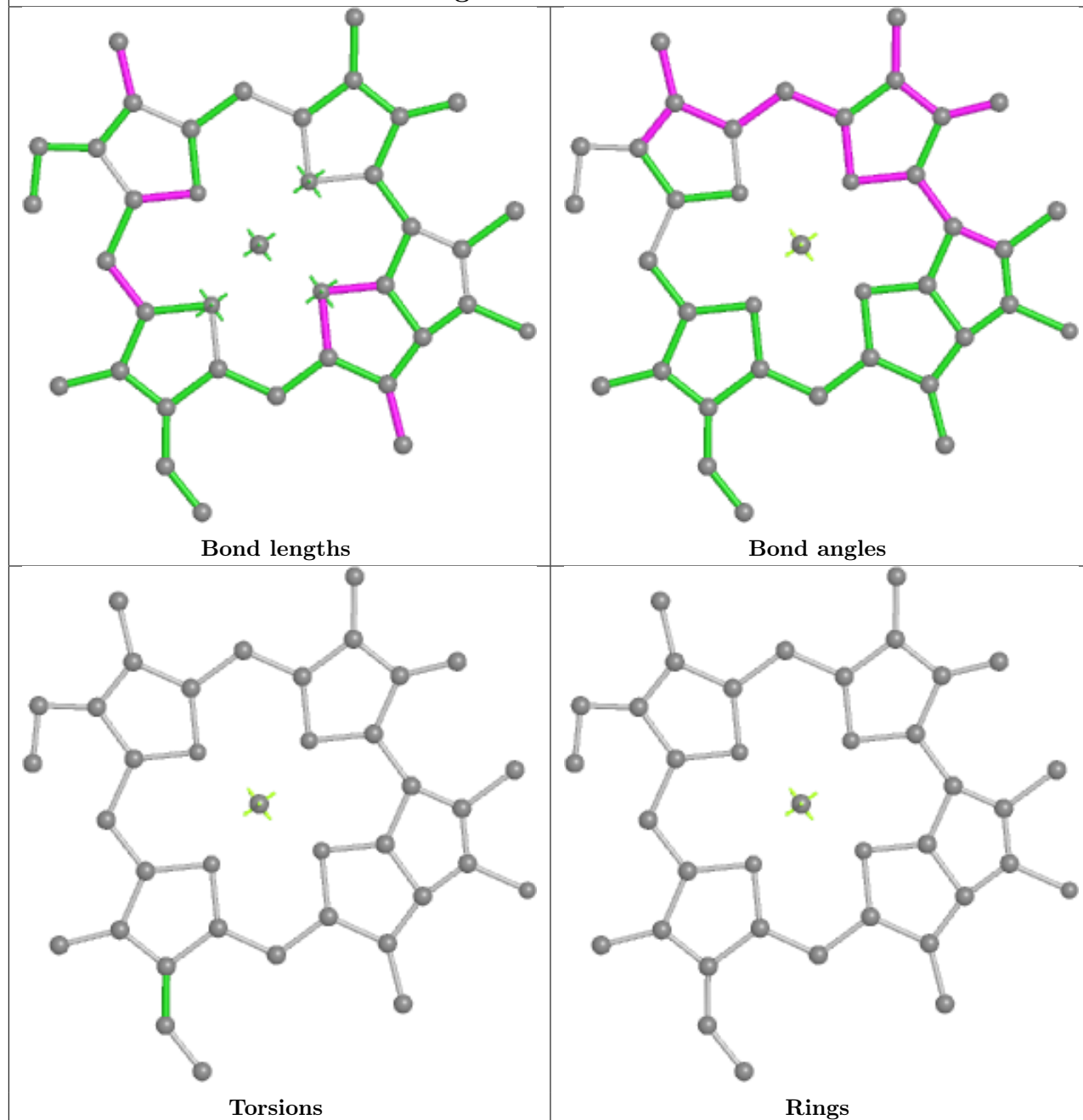


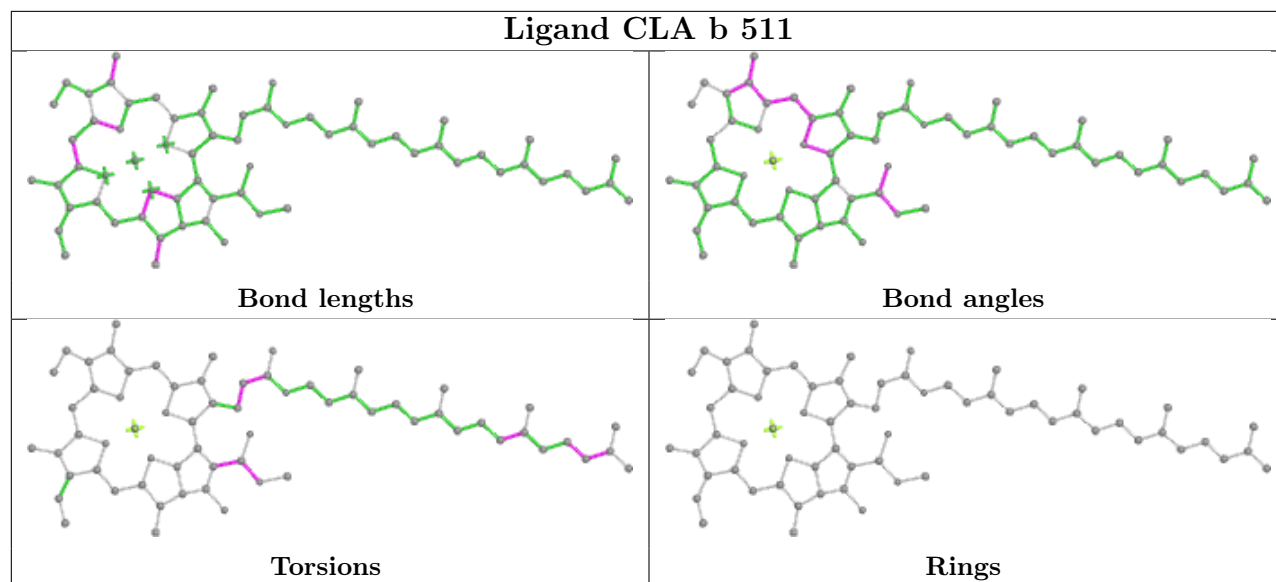




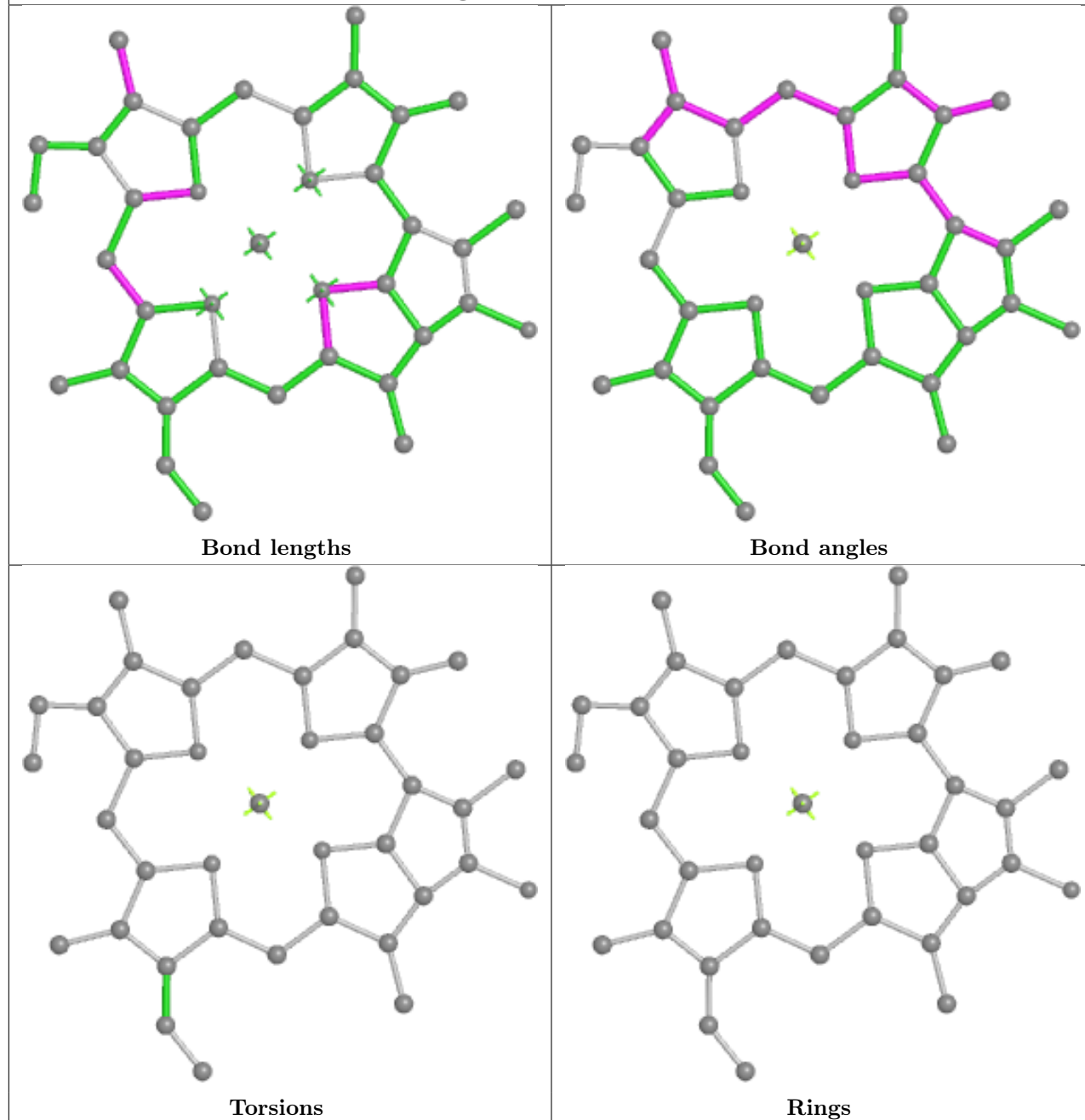


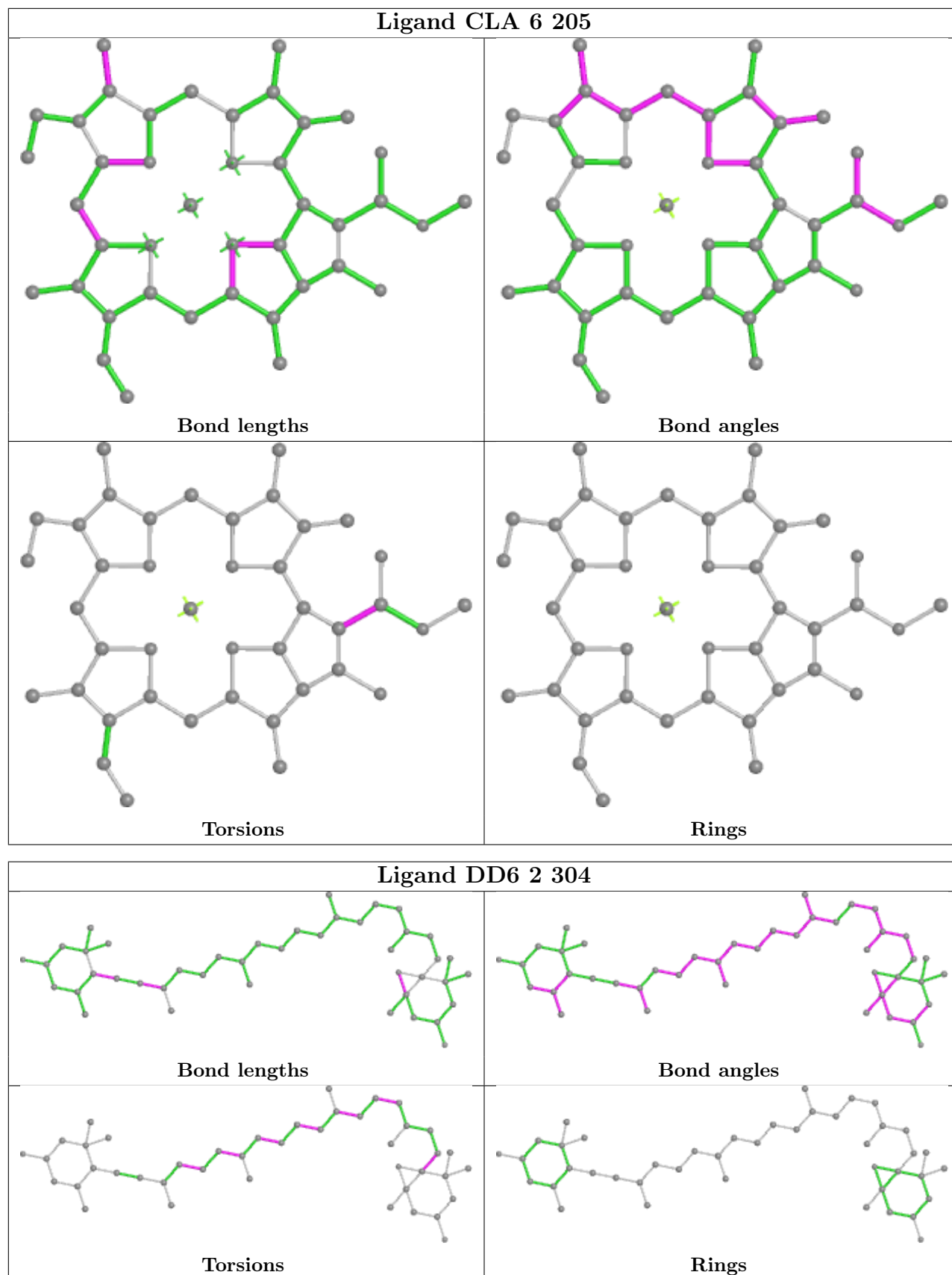
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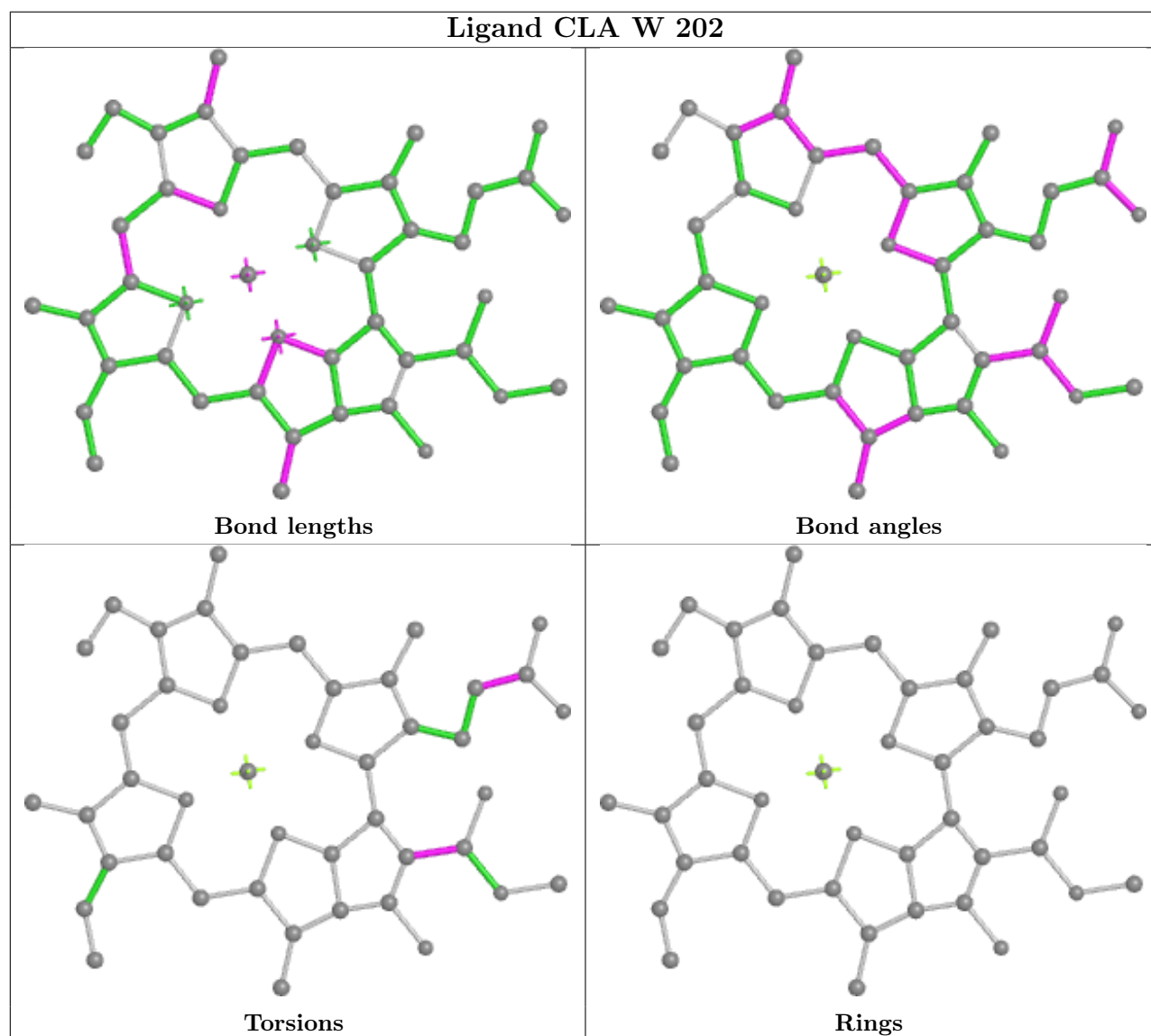
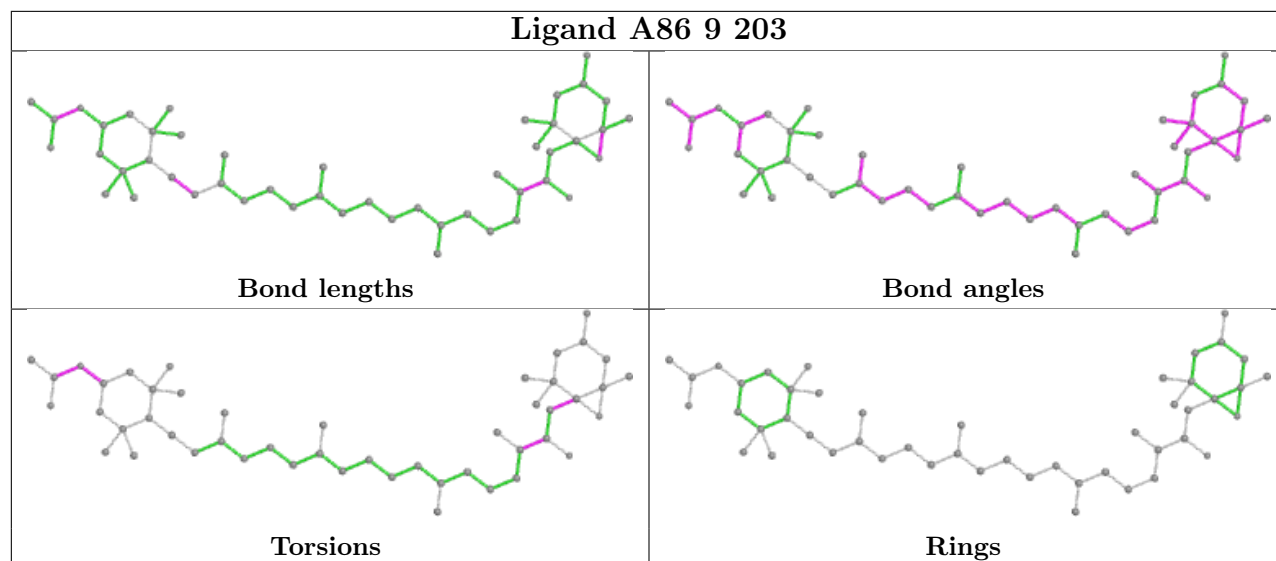


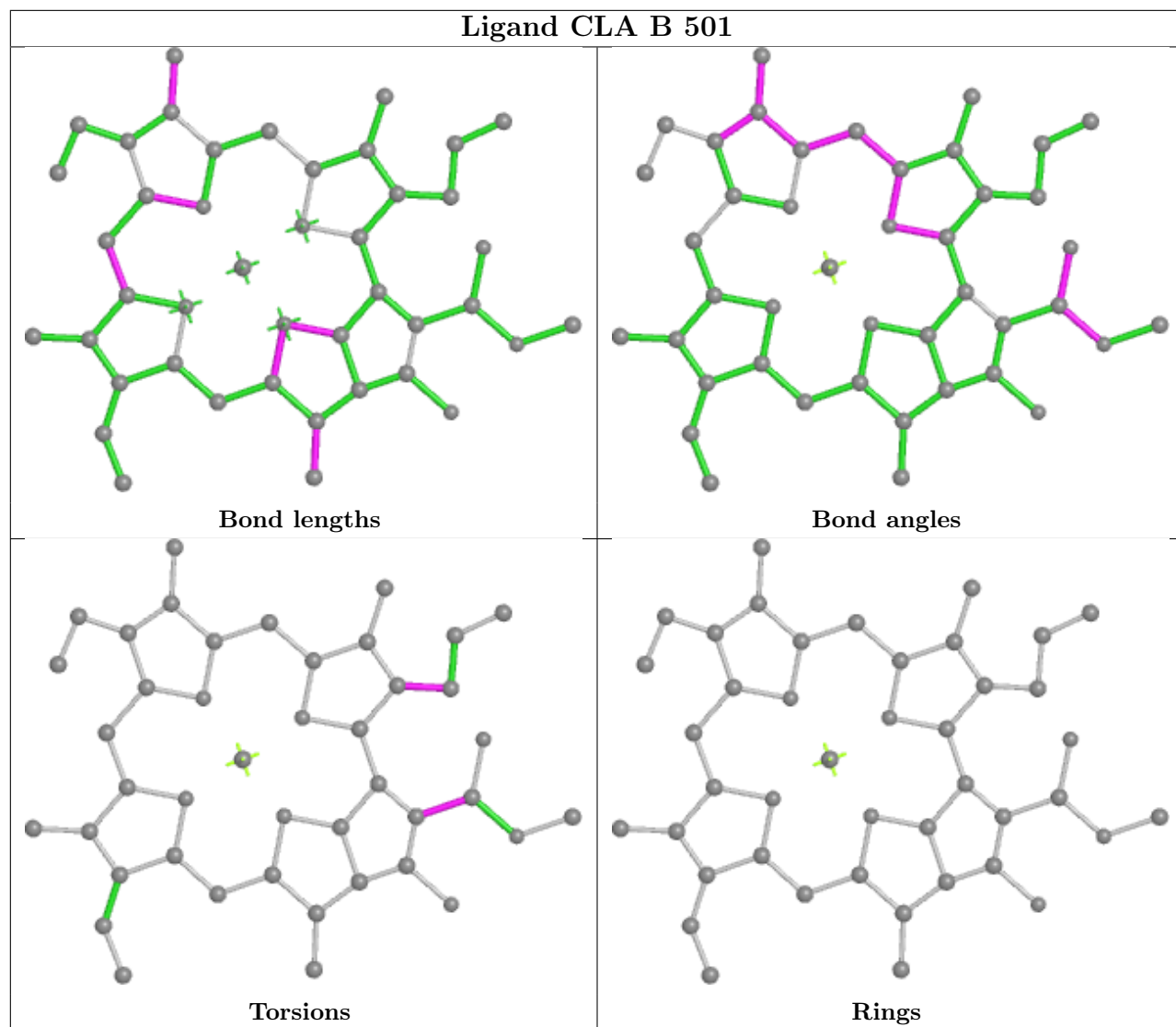


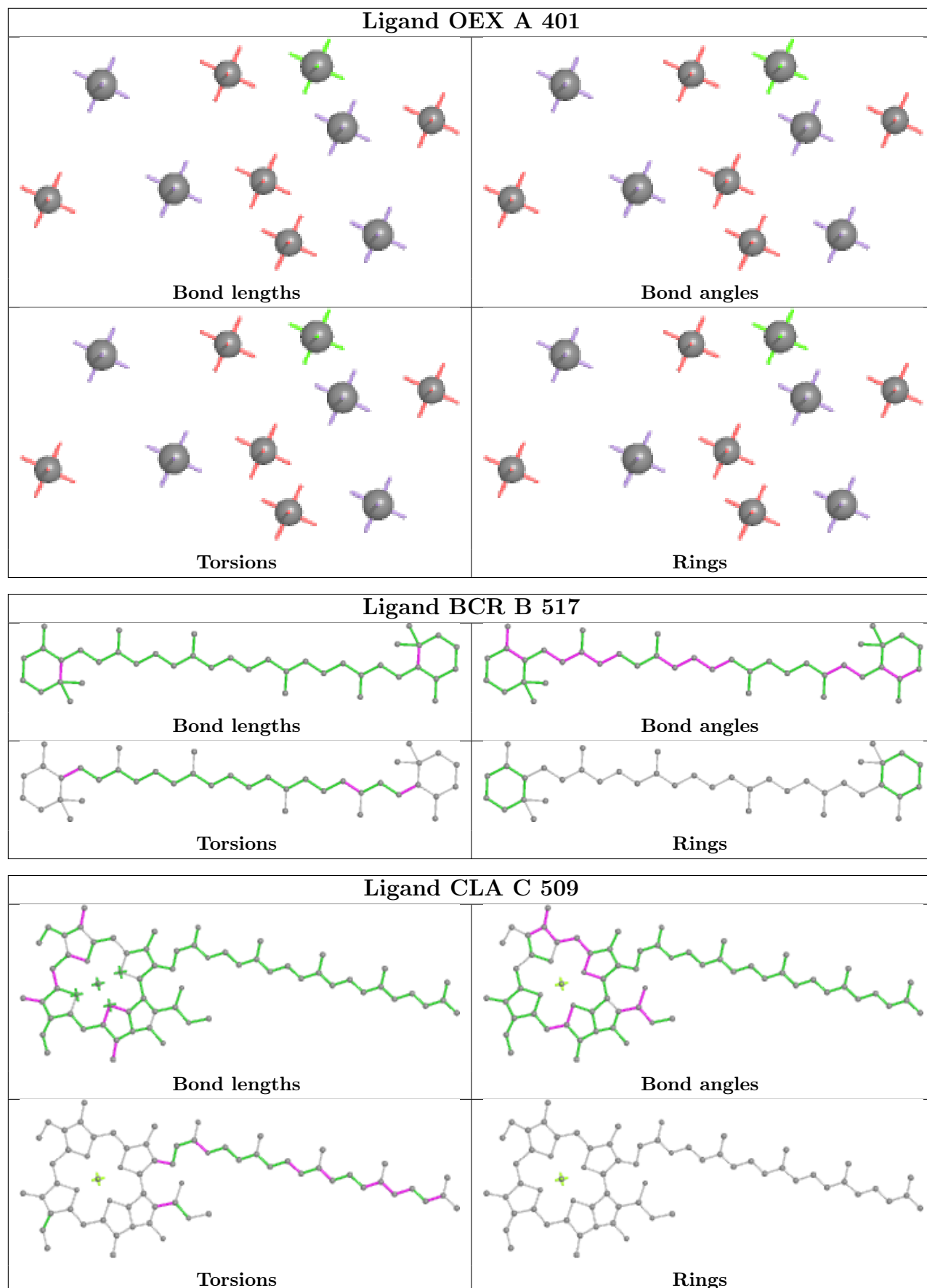
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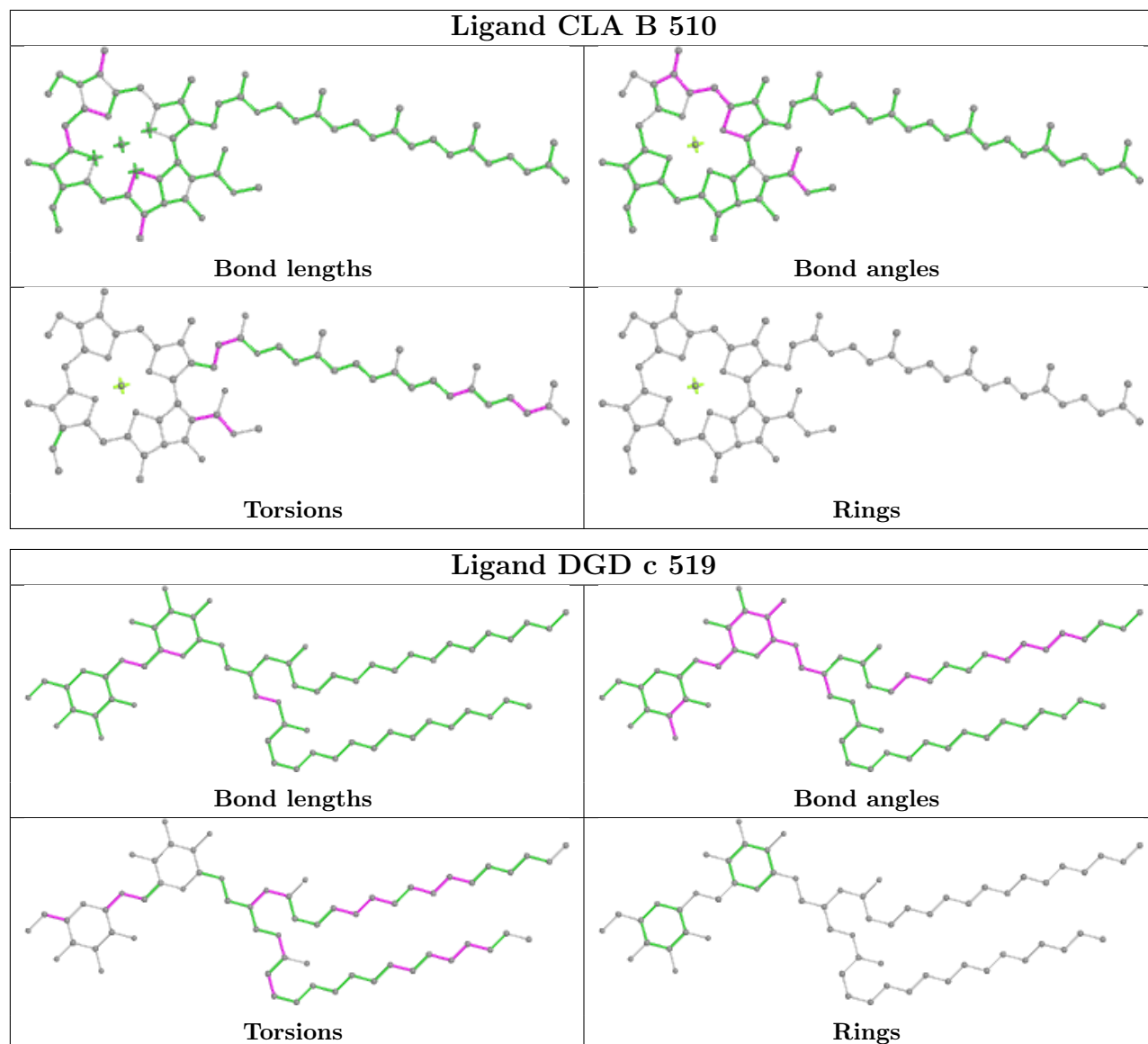




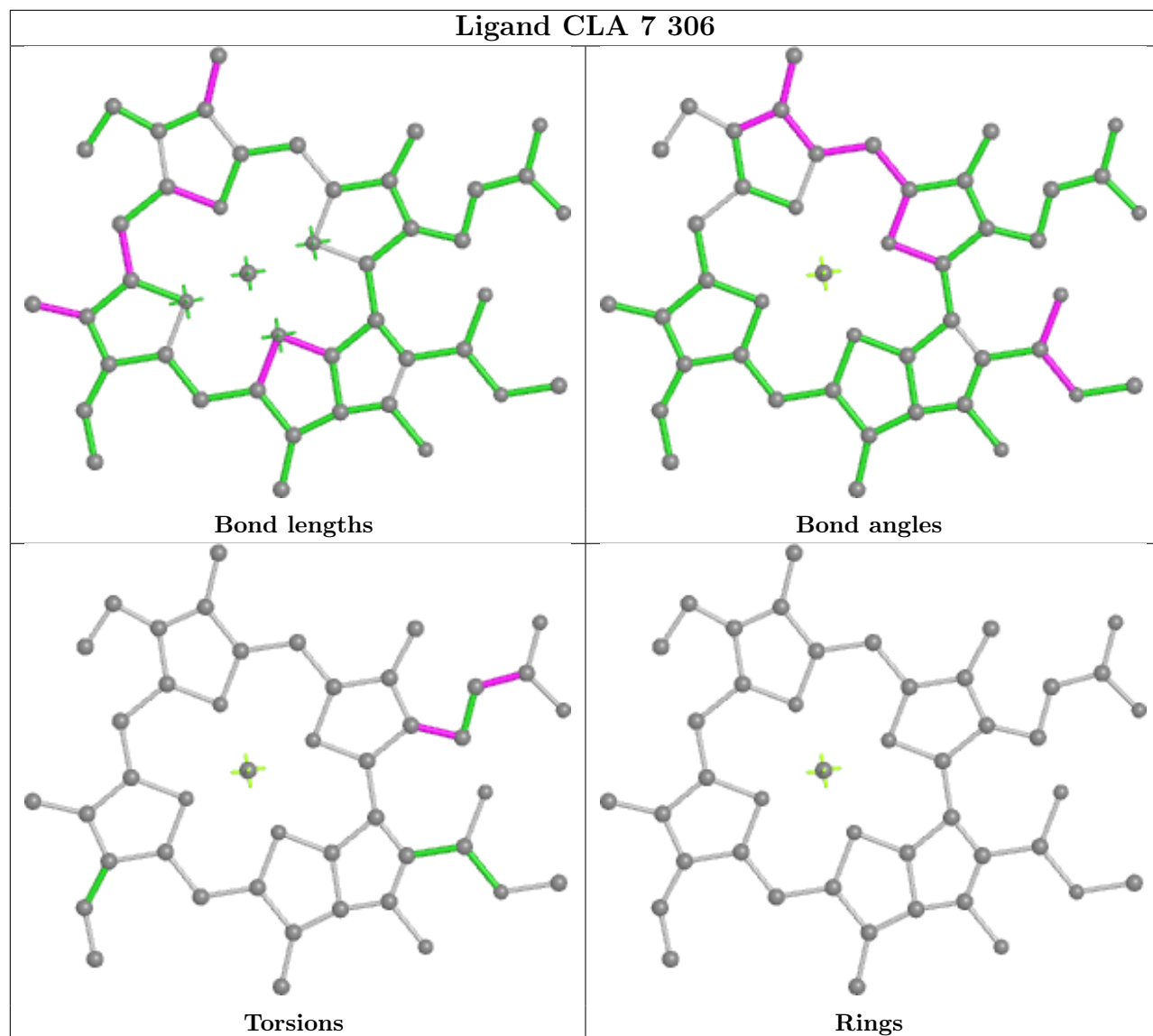


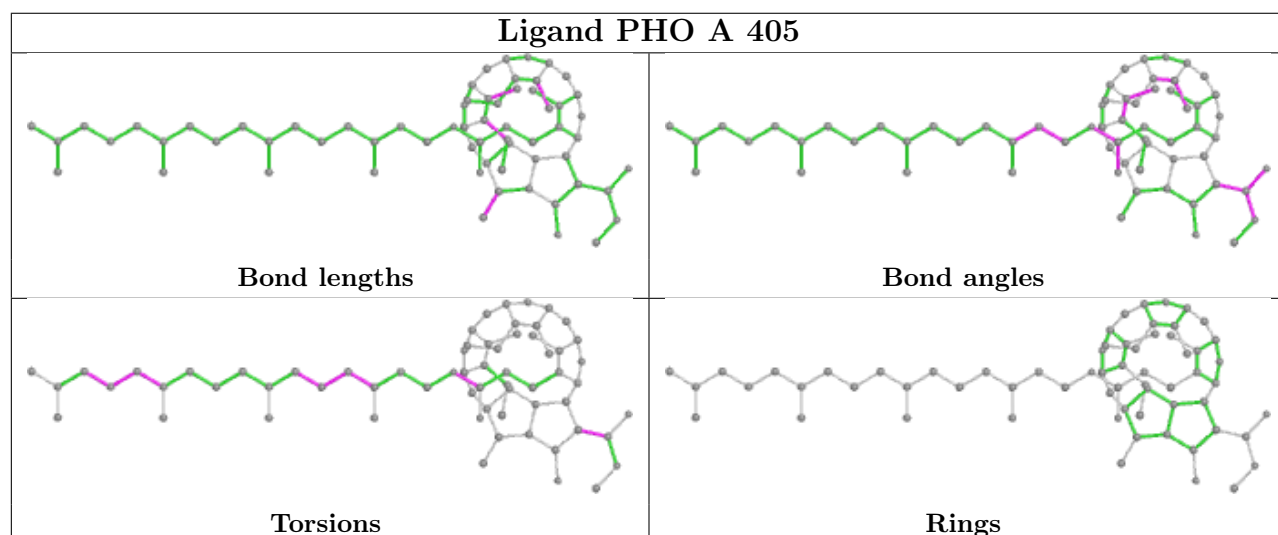
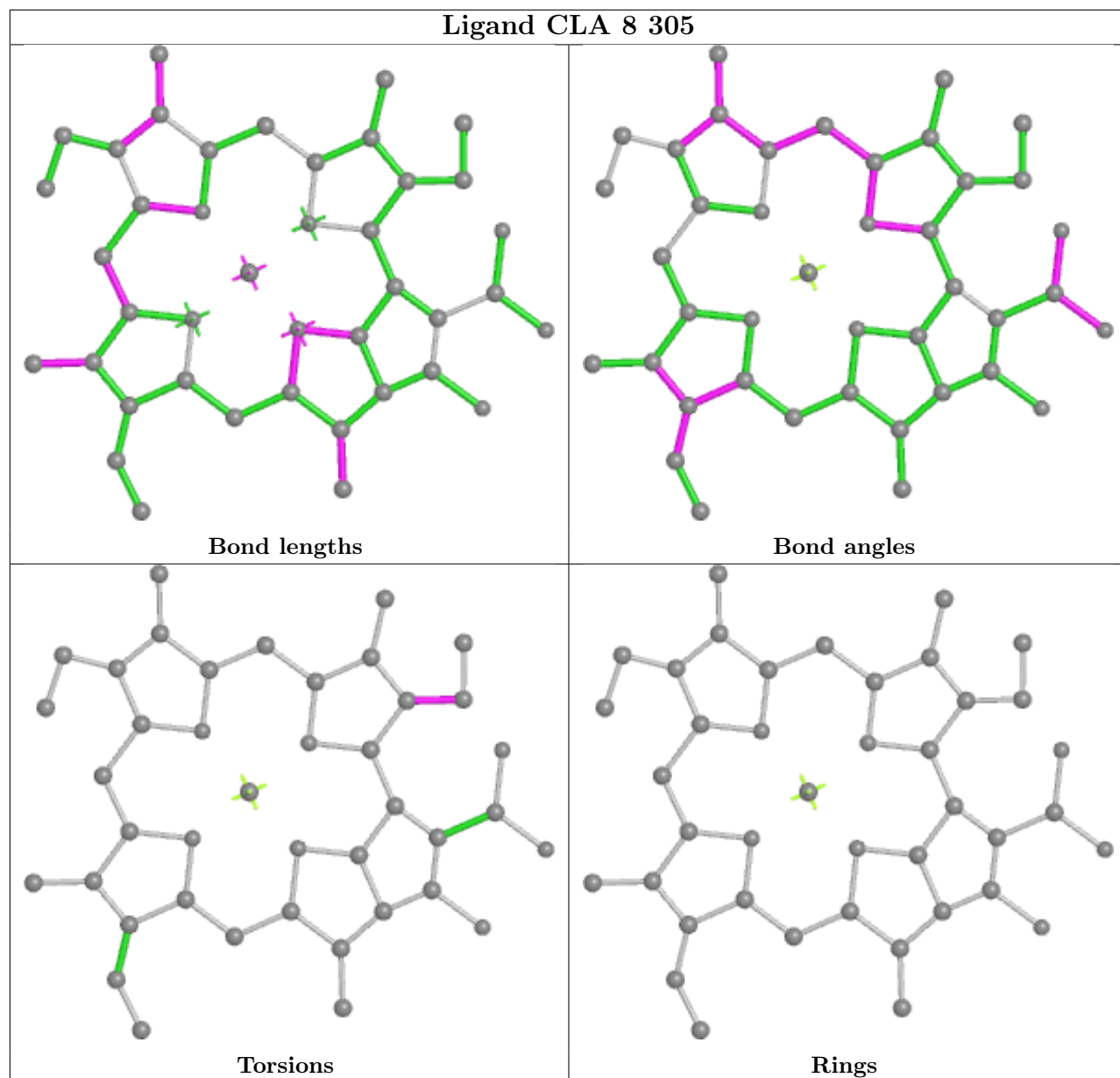


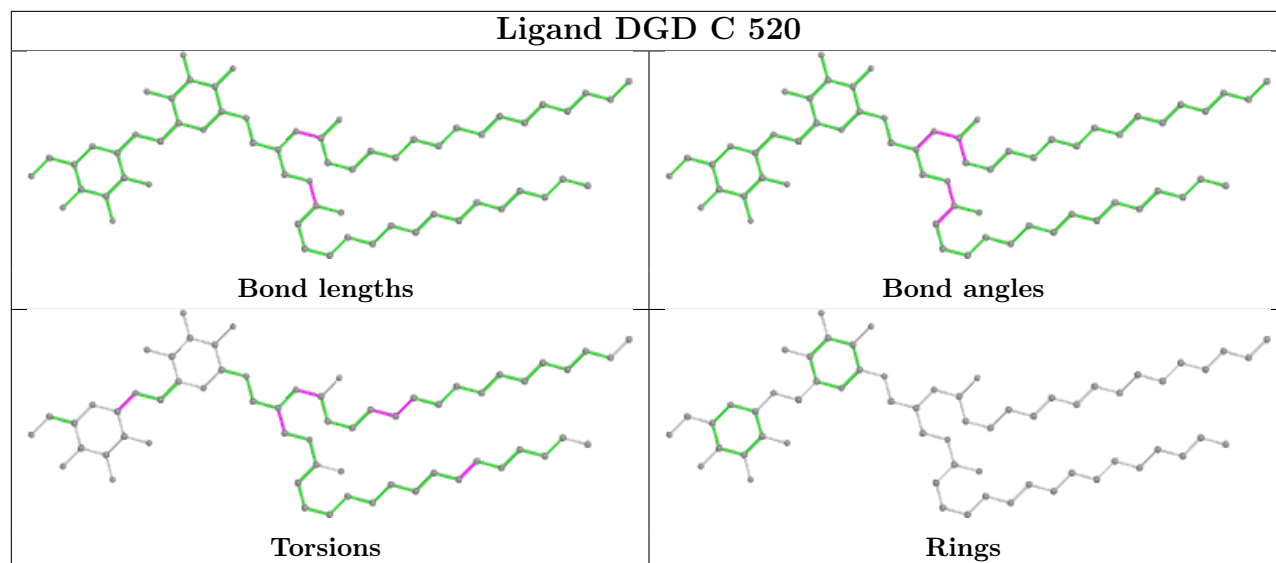


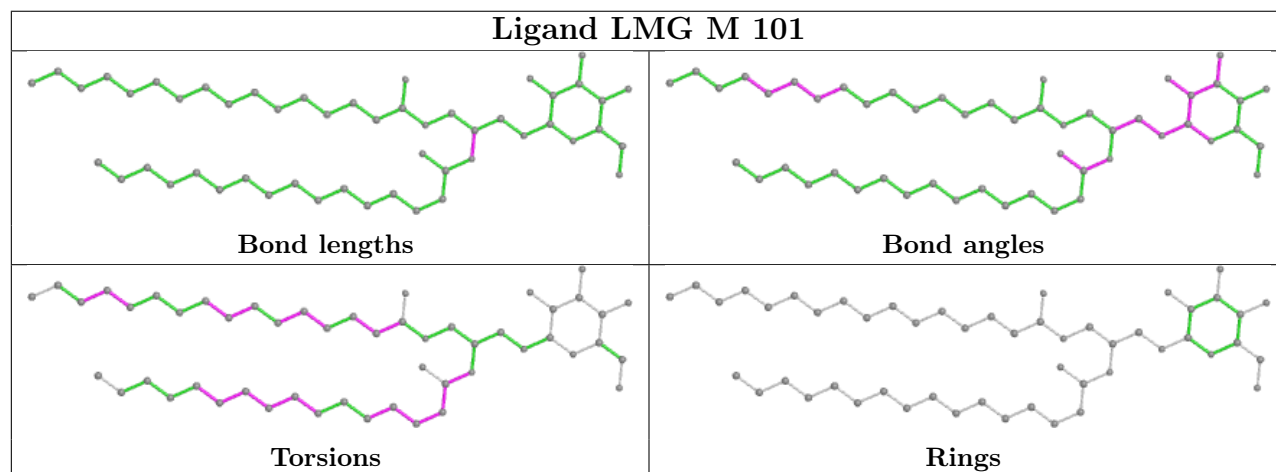
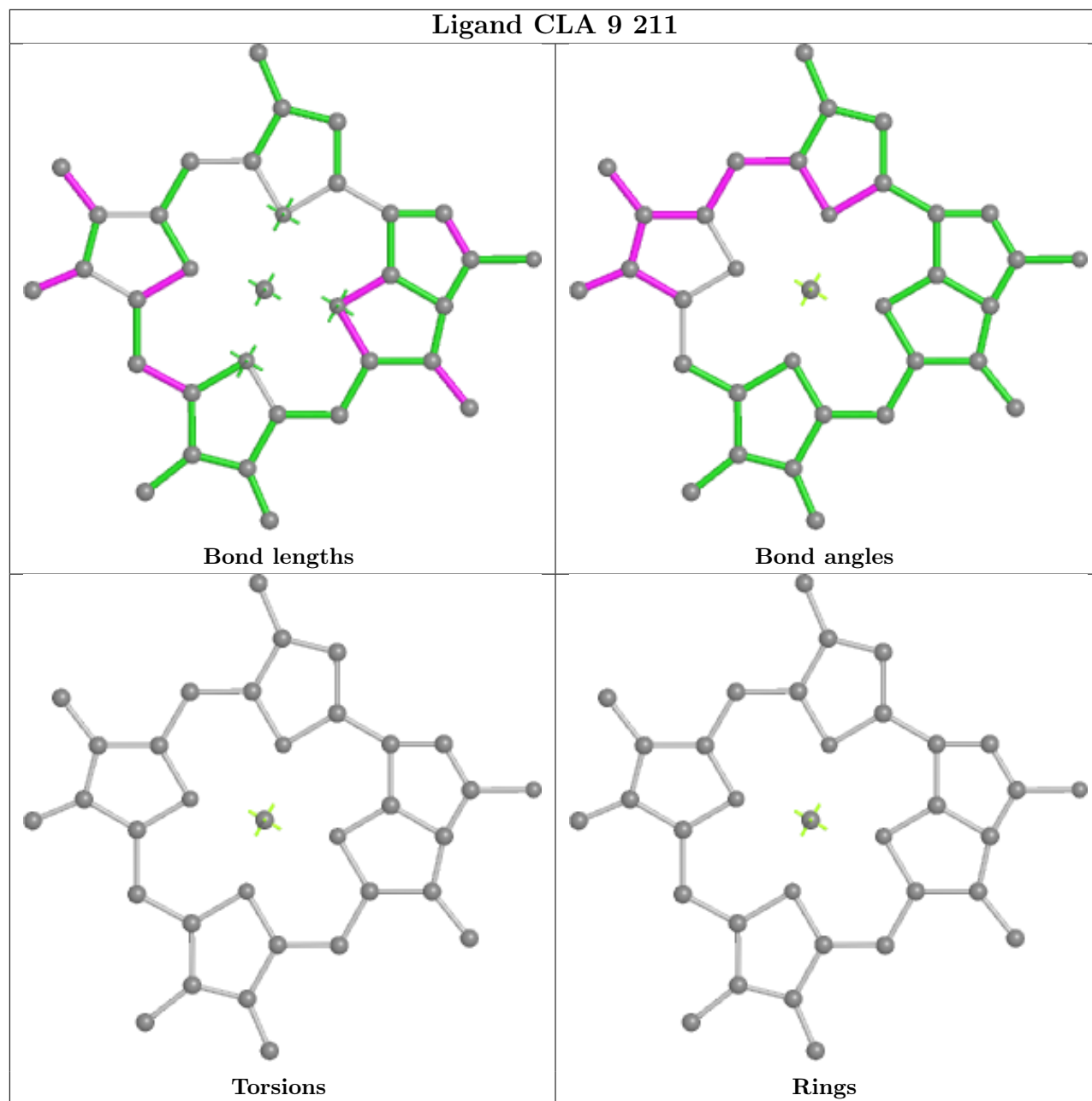


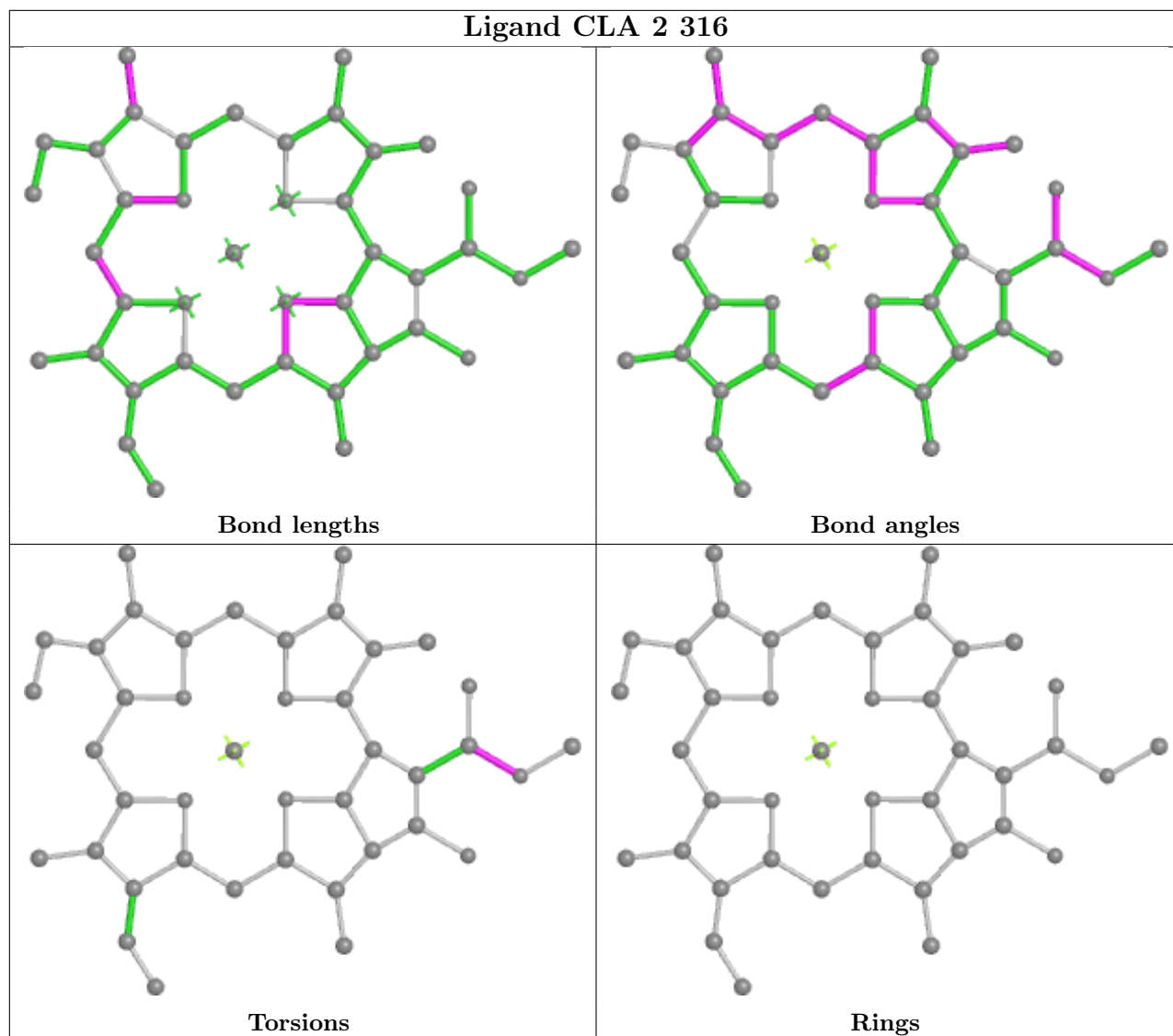
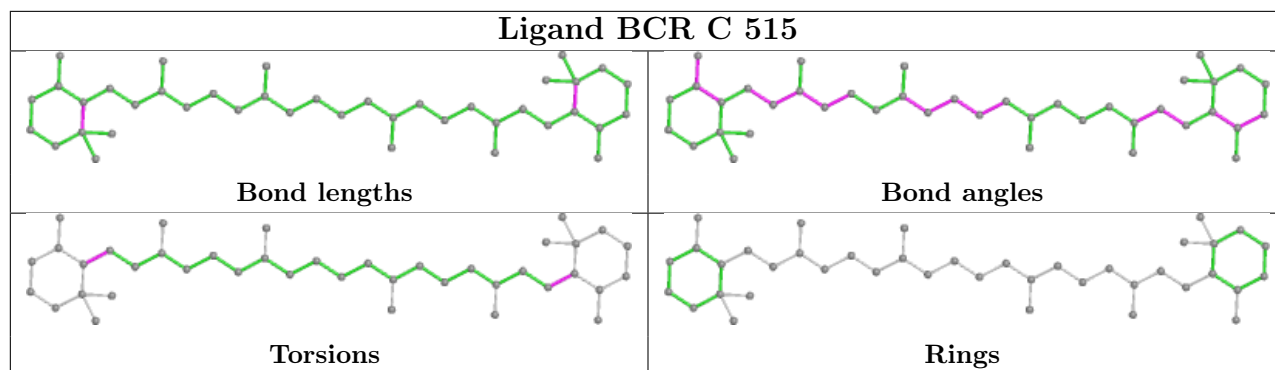


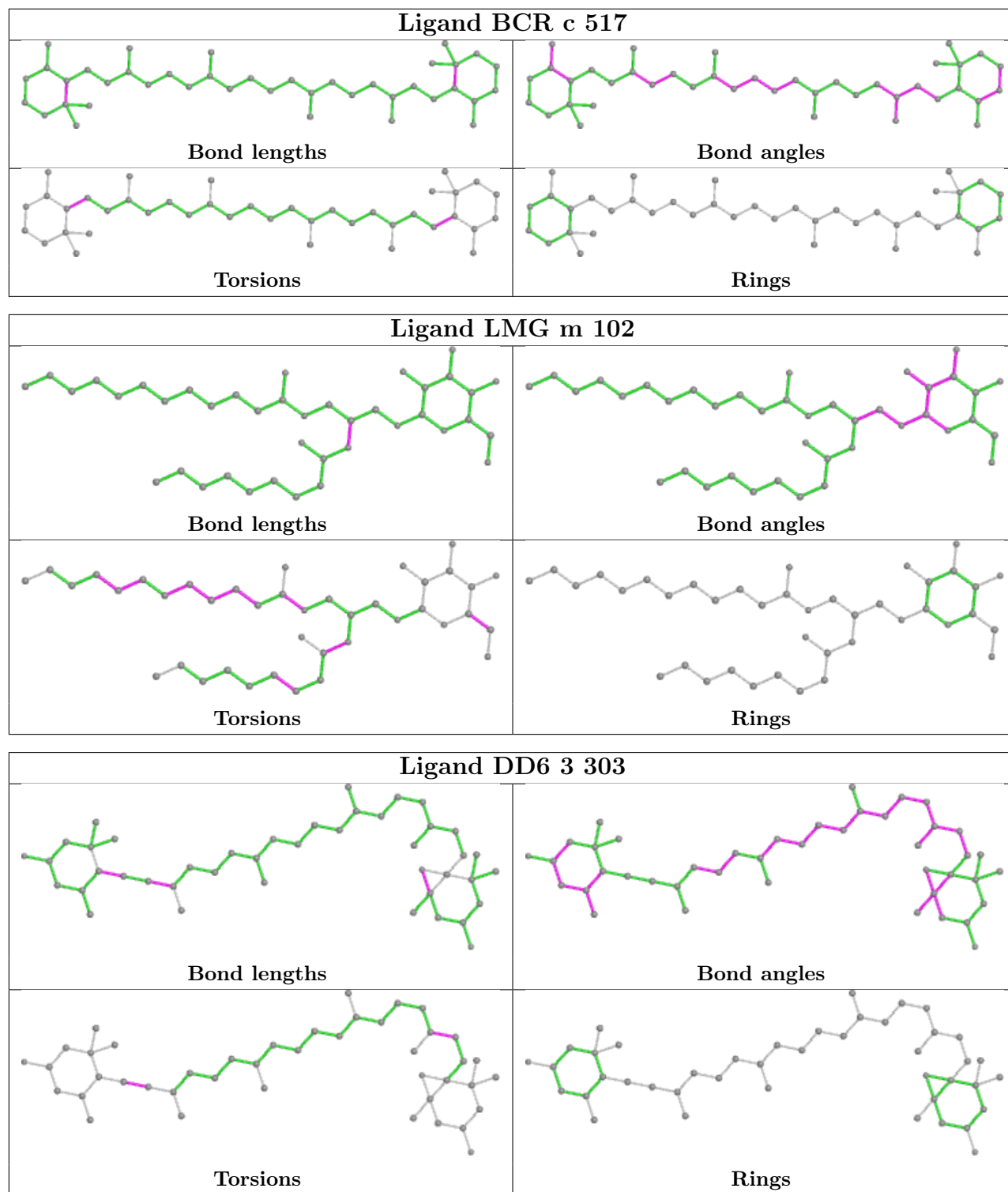


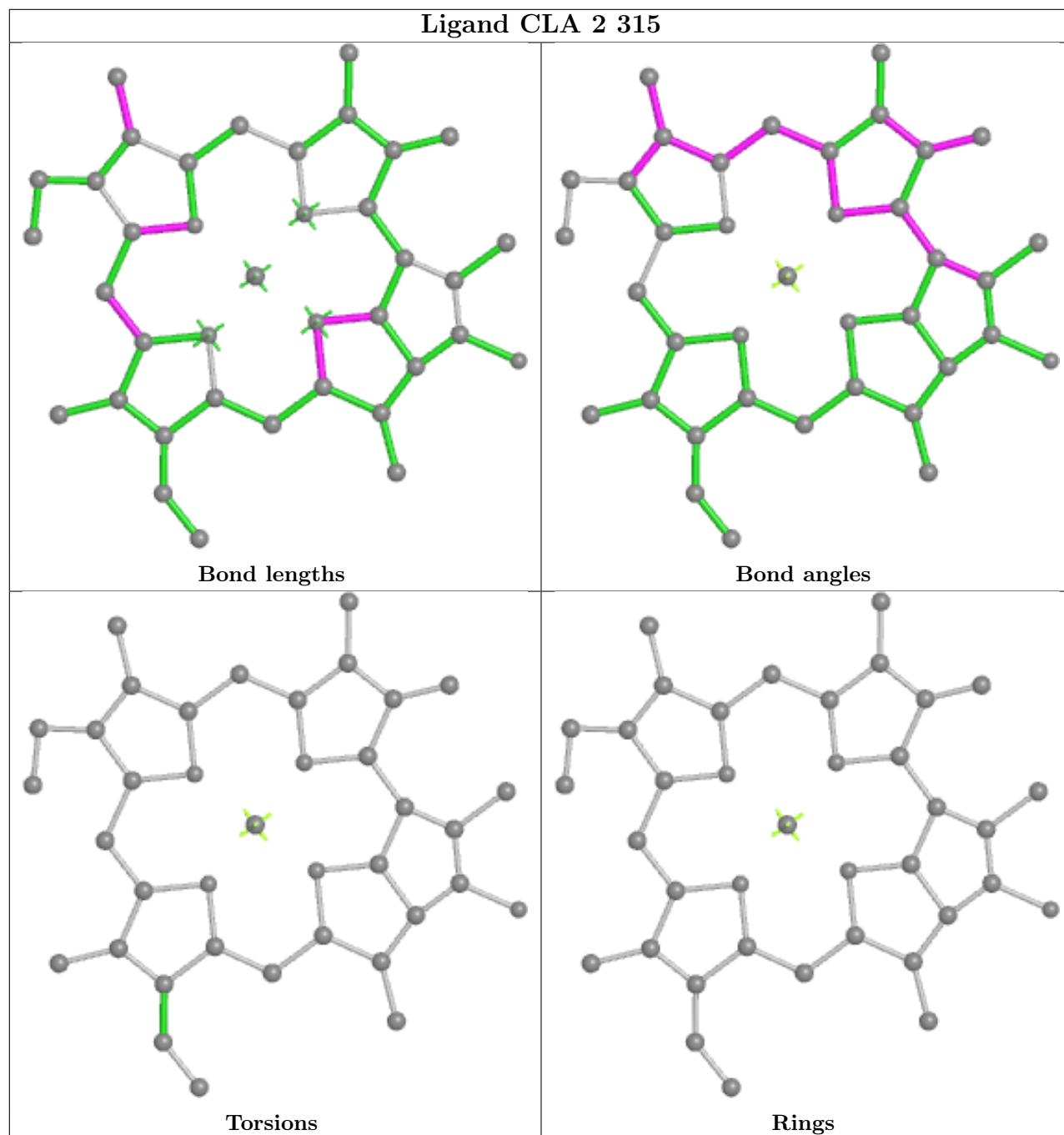


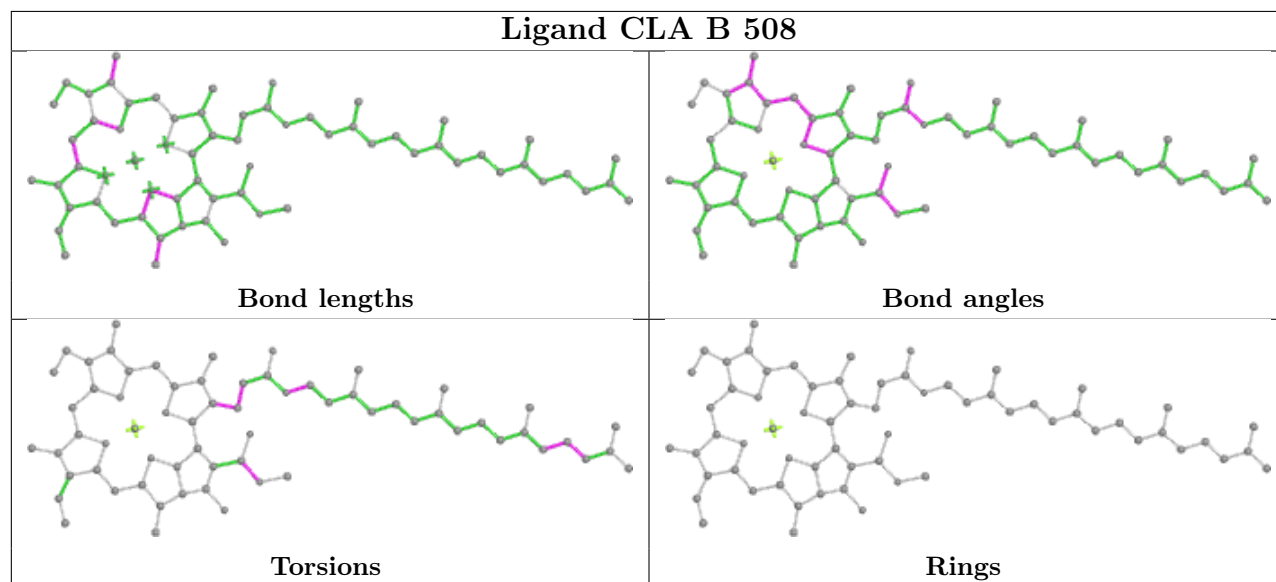
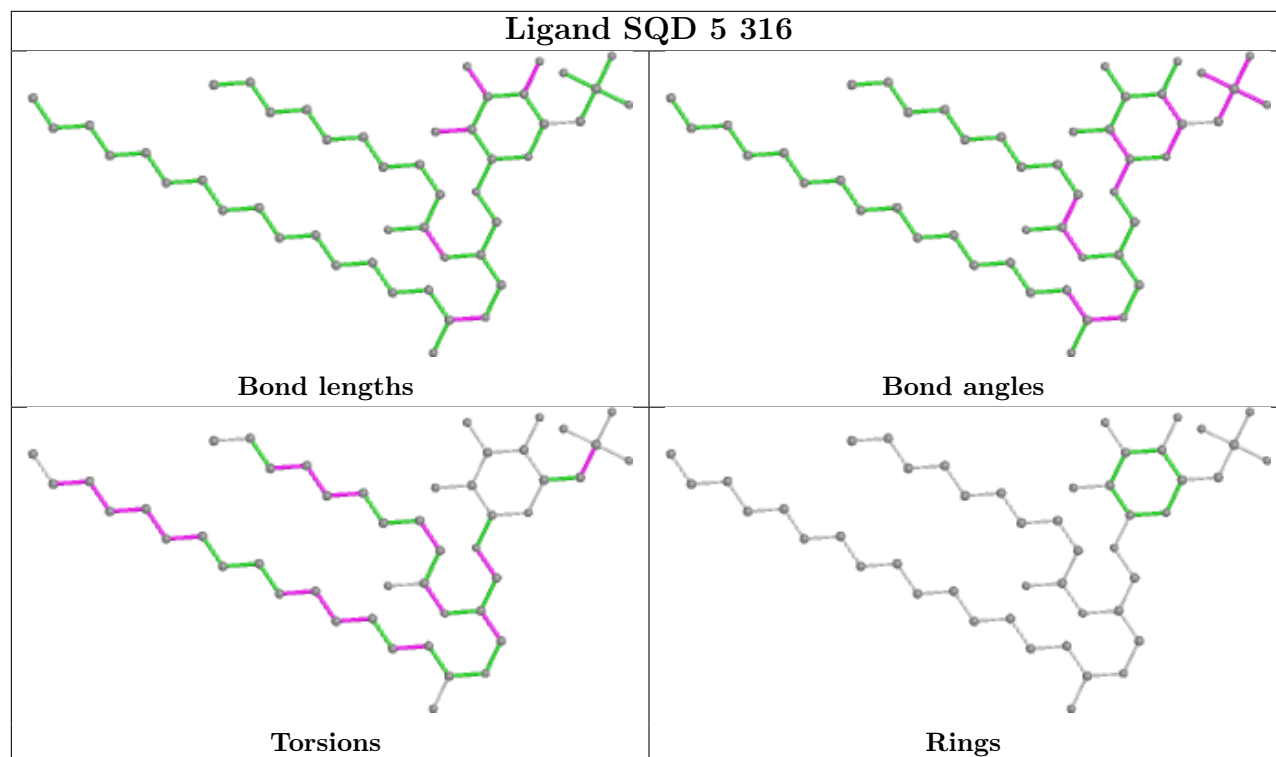




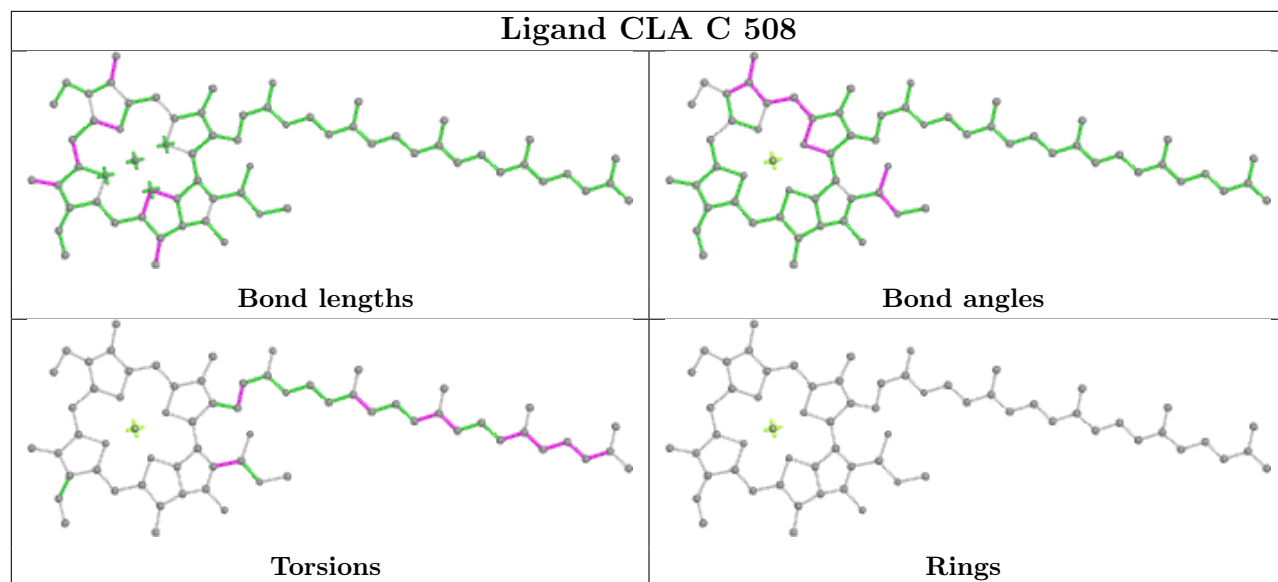




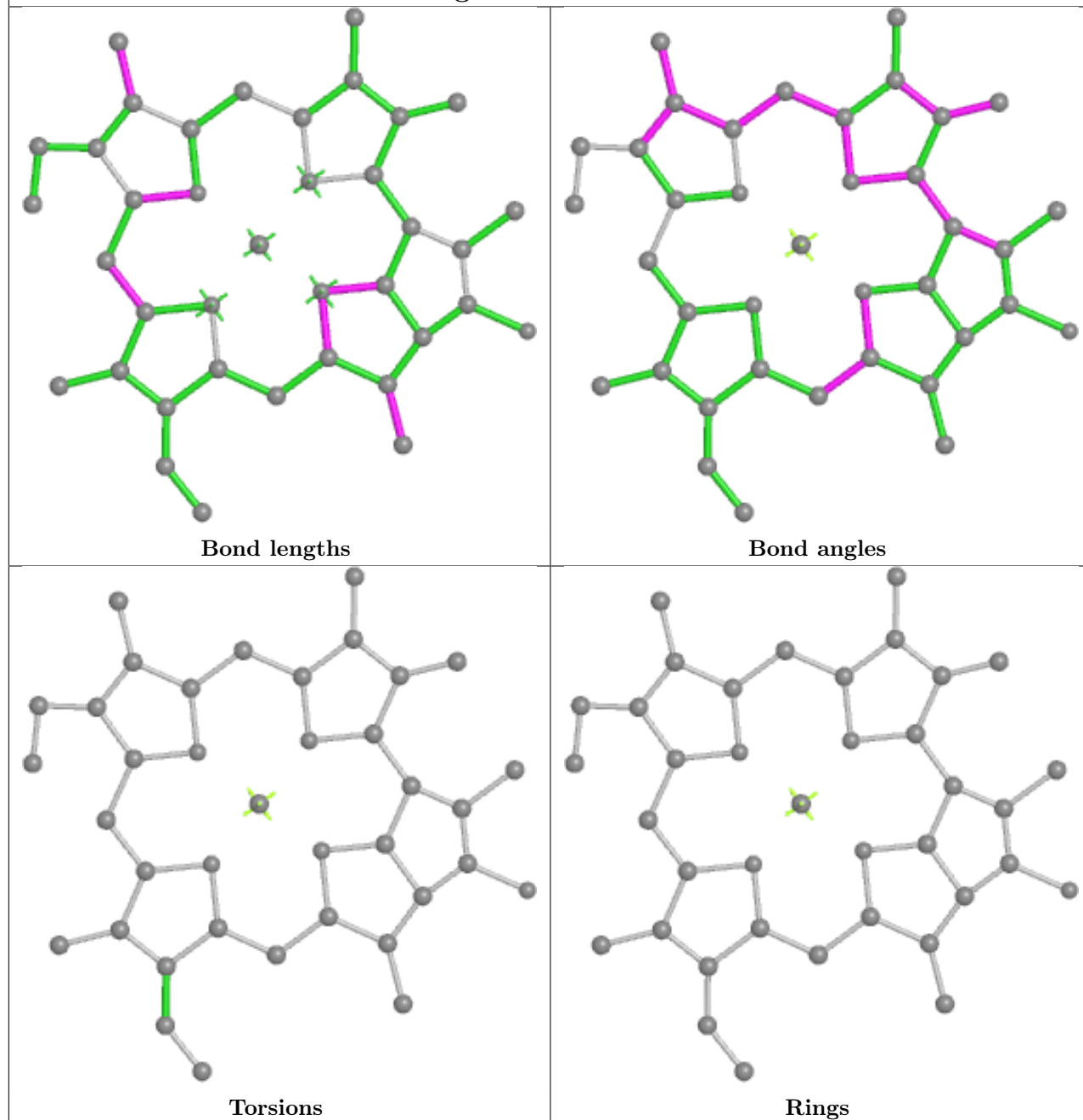




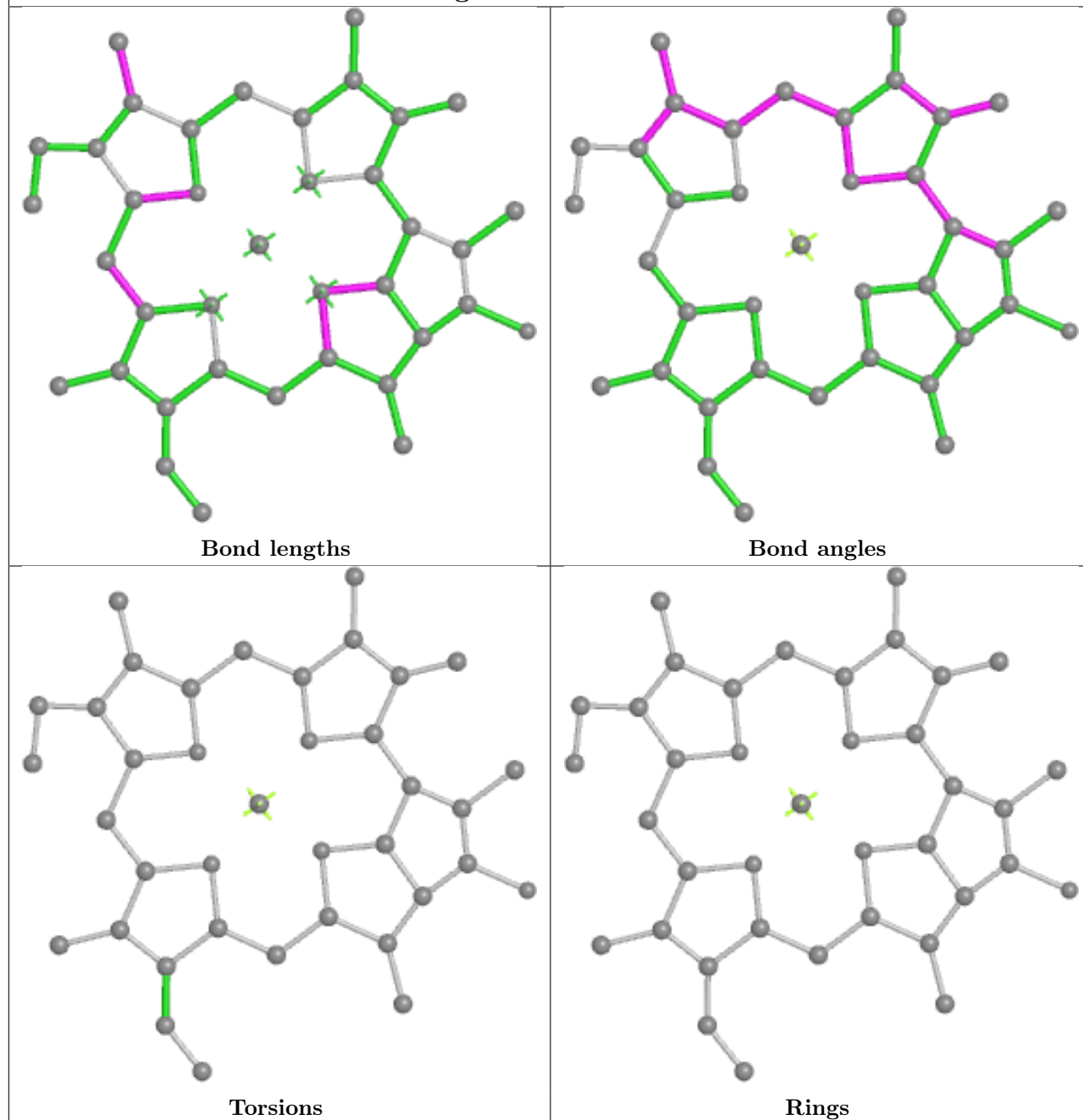


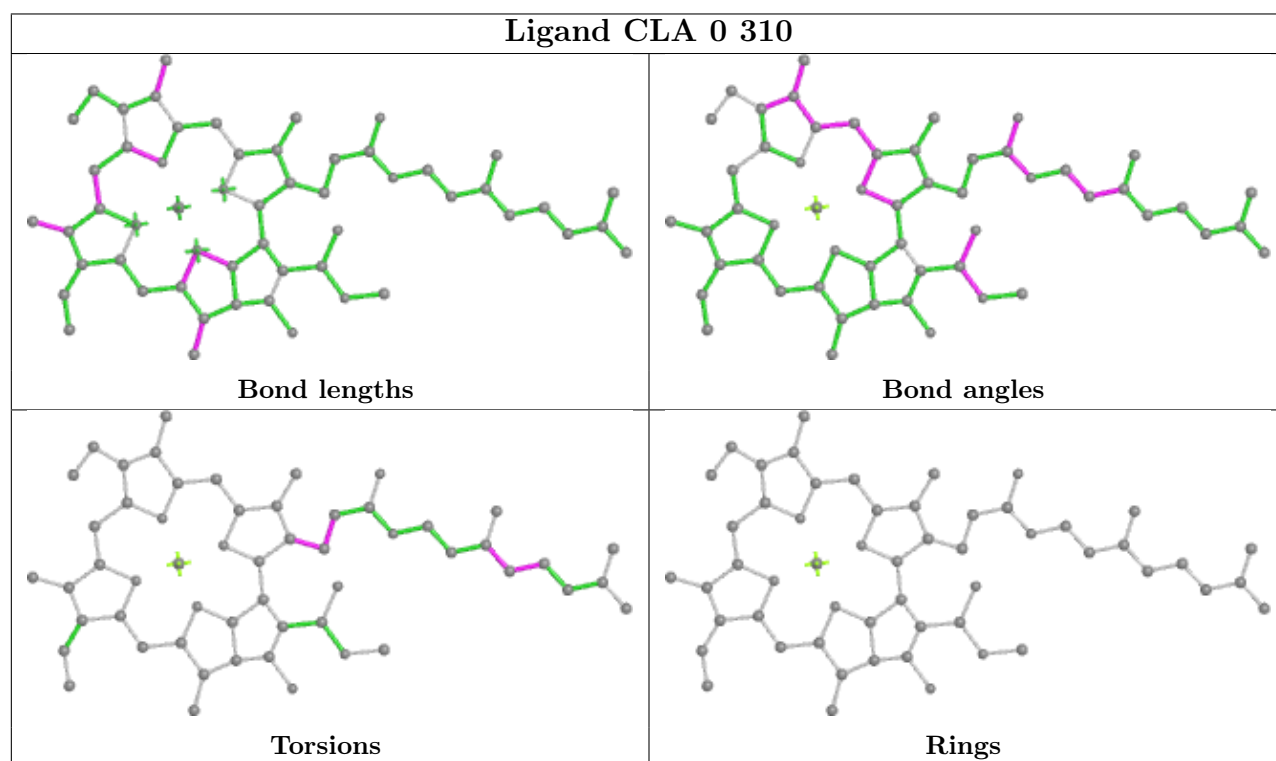
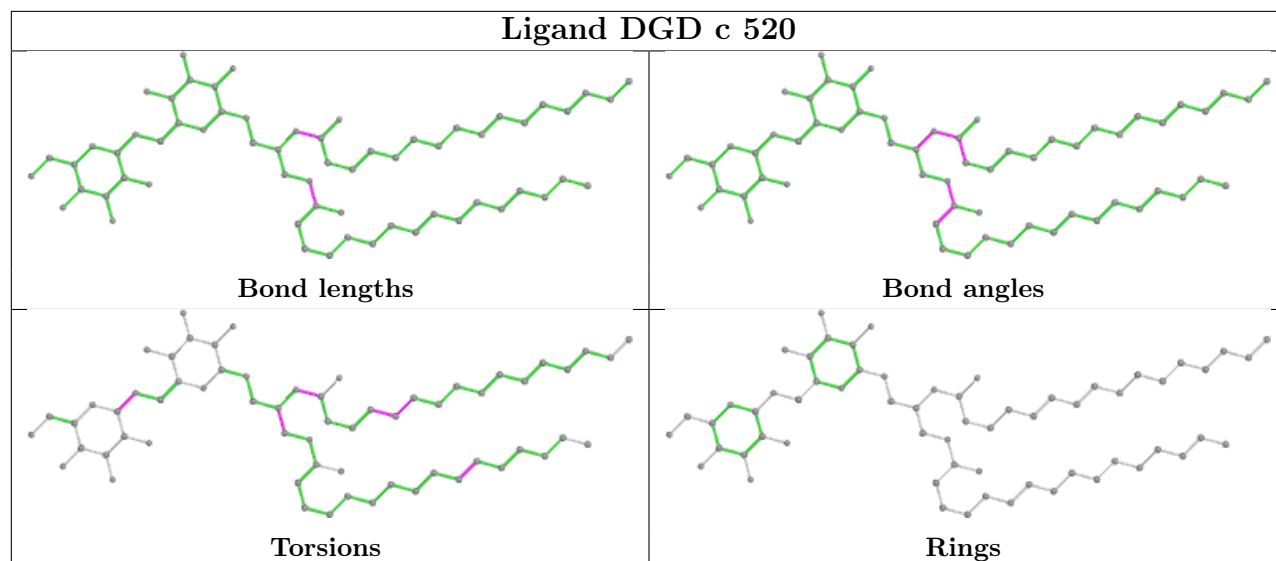


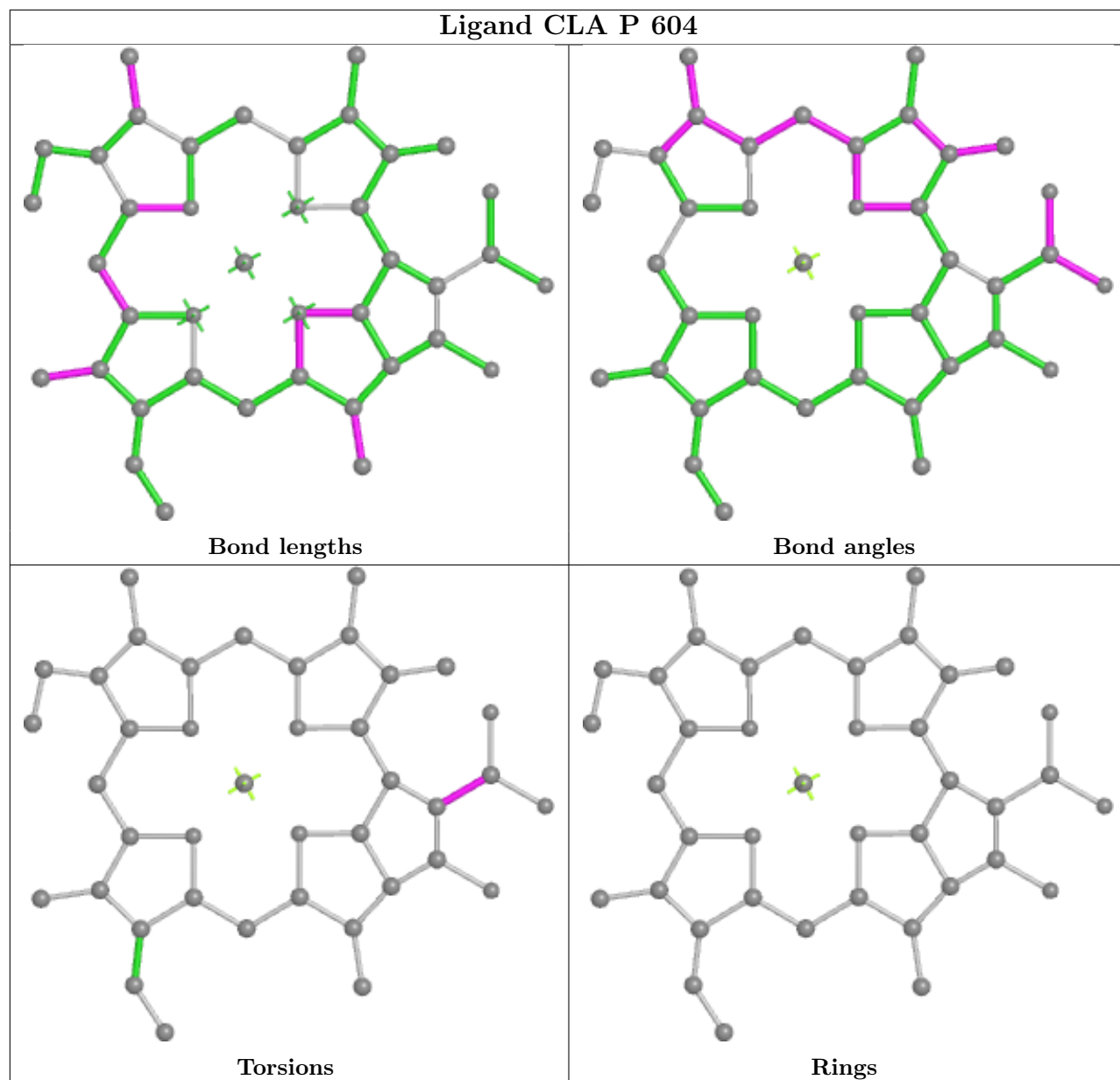
## Ligand CLA 7 314

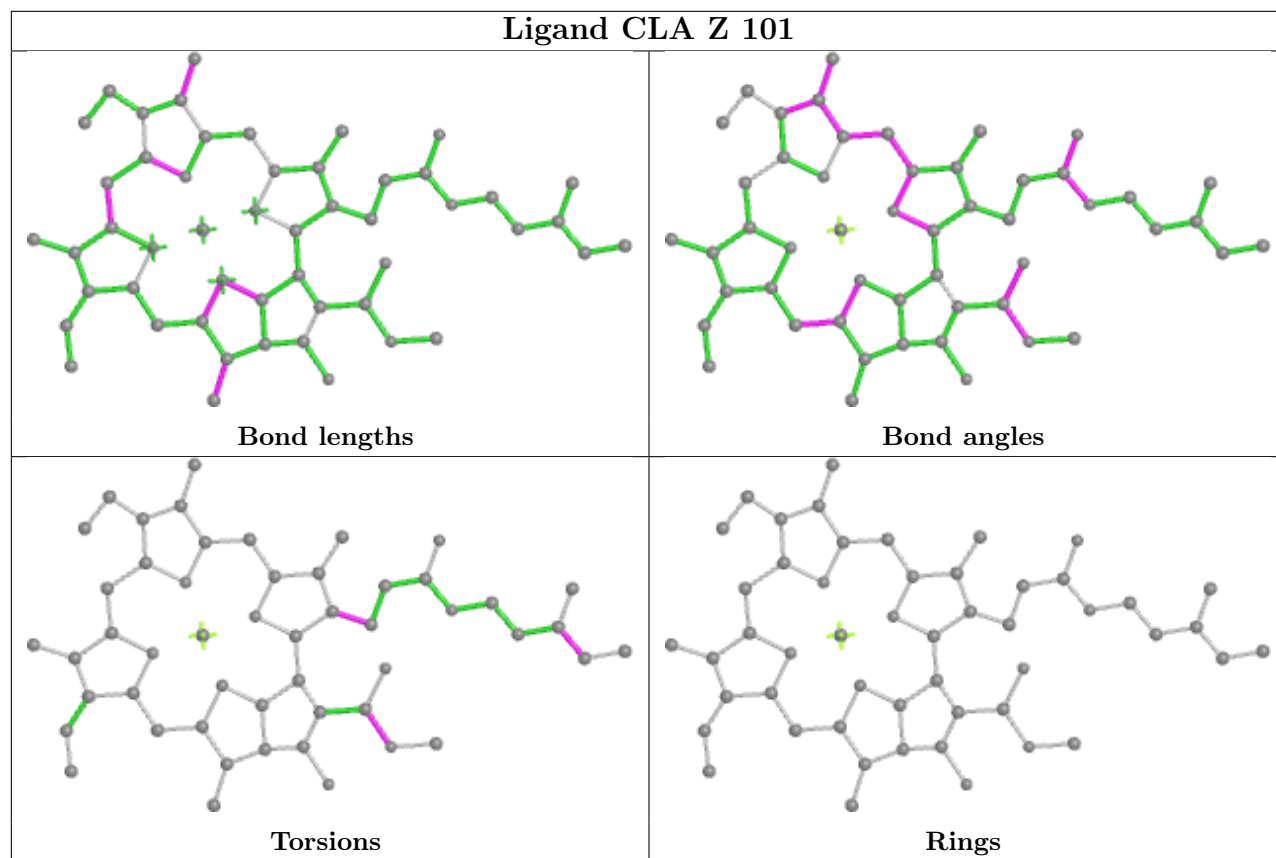


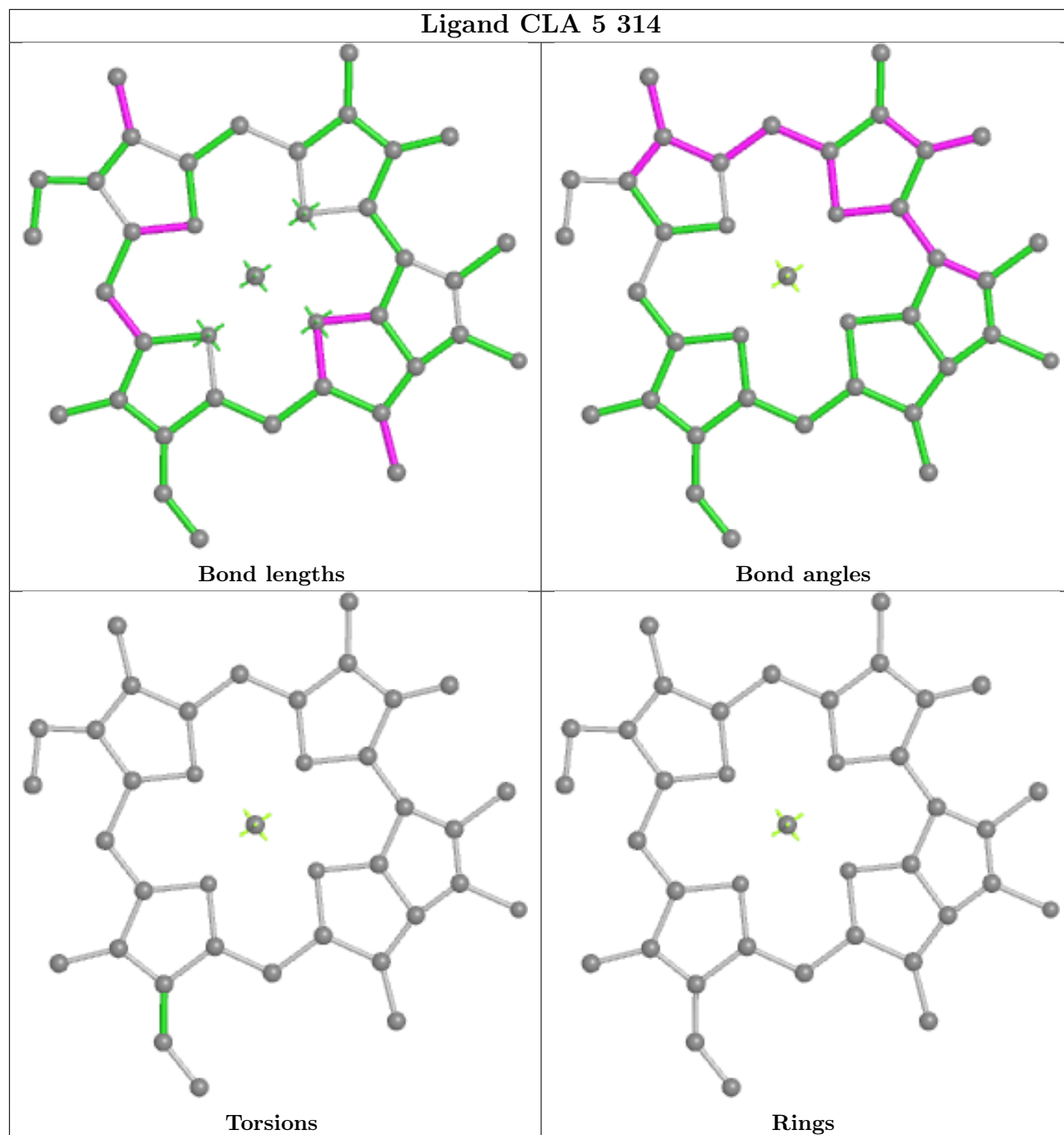
## Ligand CLA 1 215



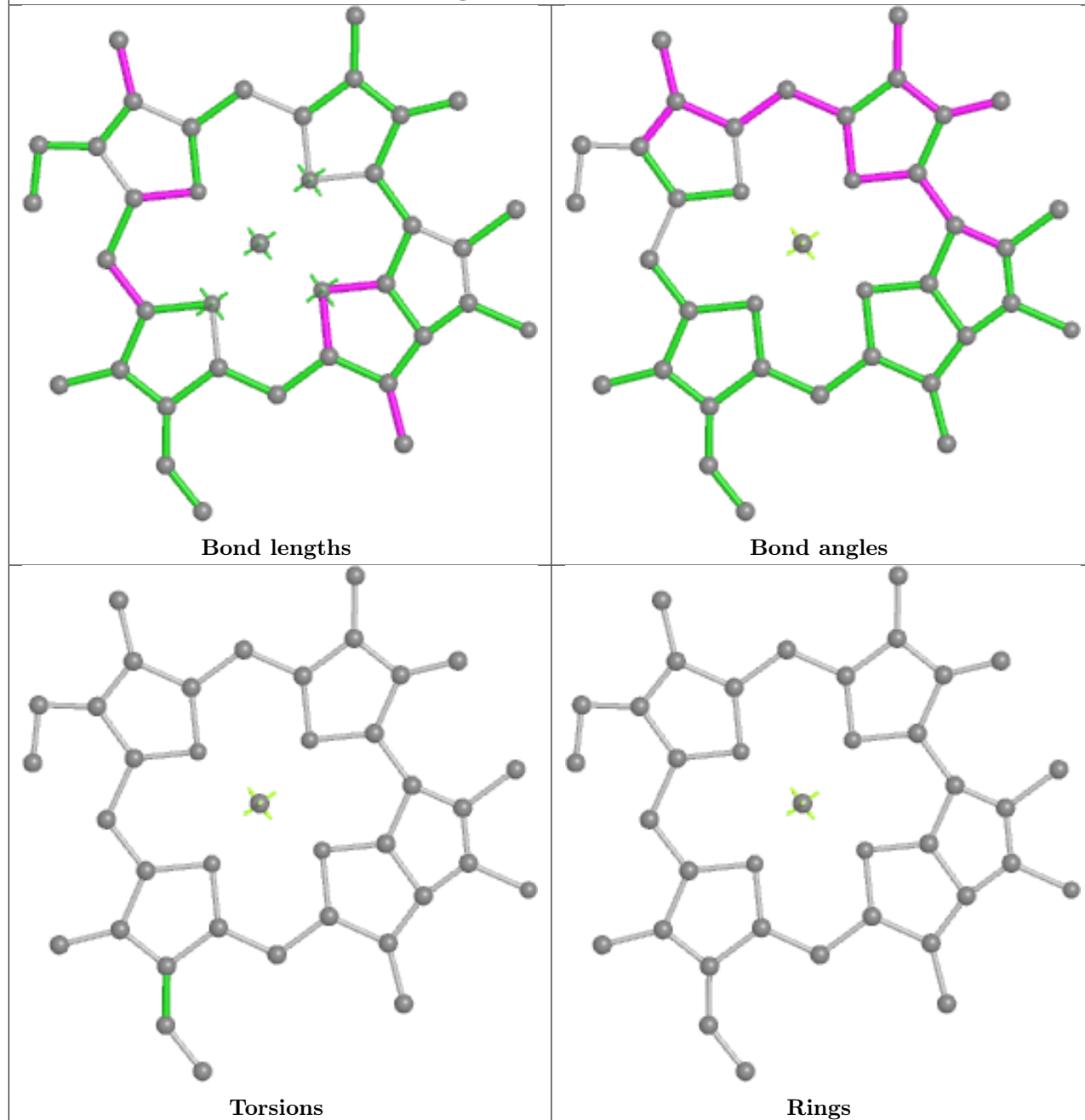




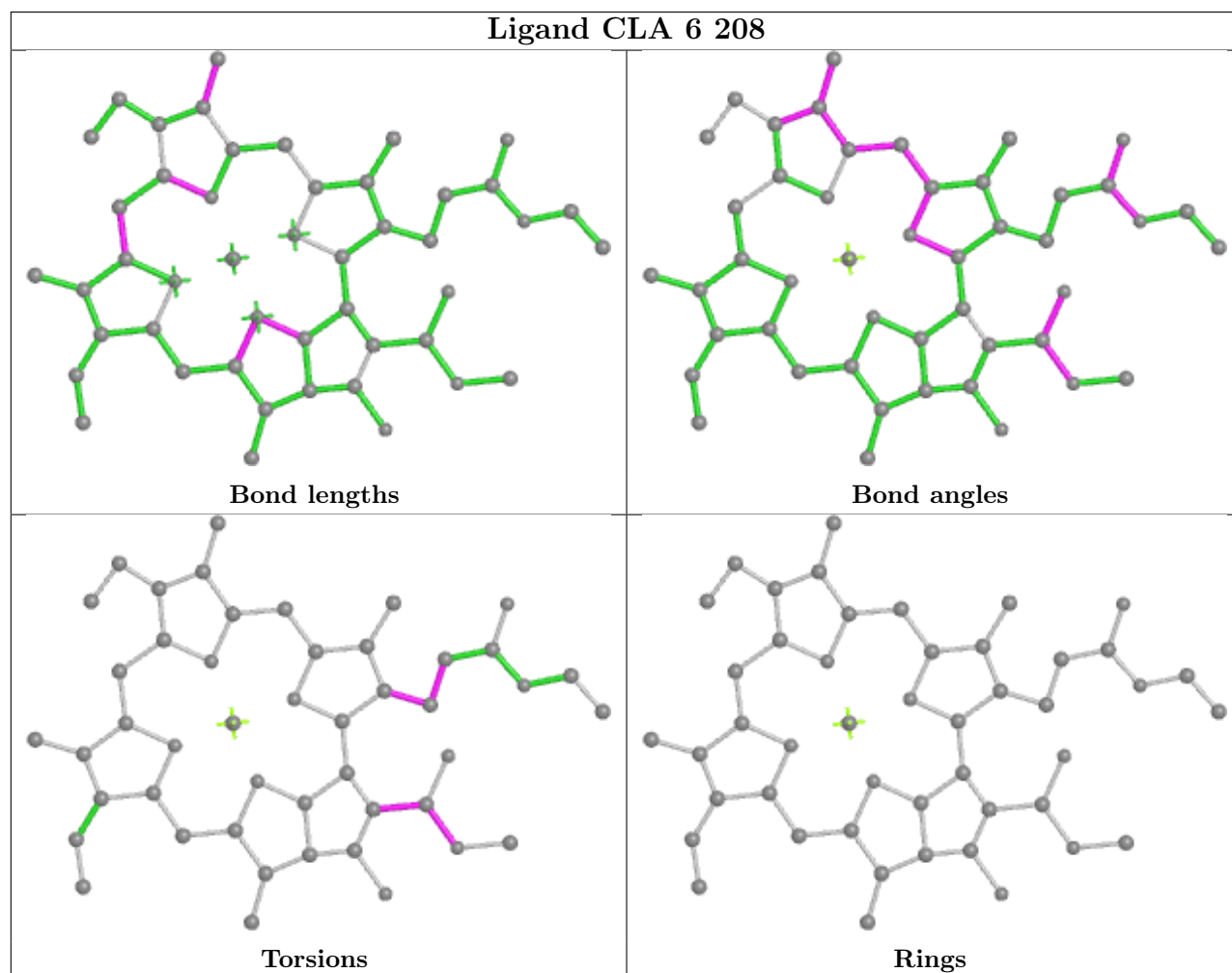
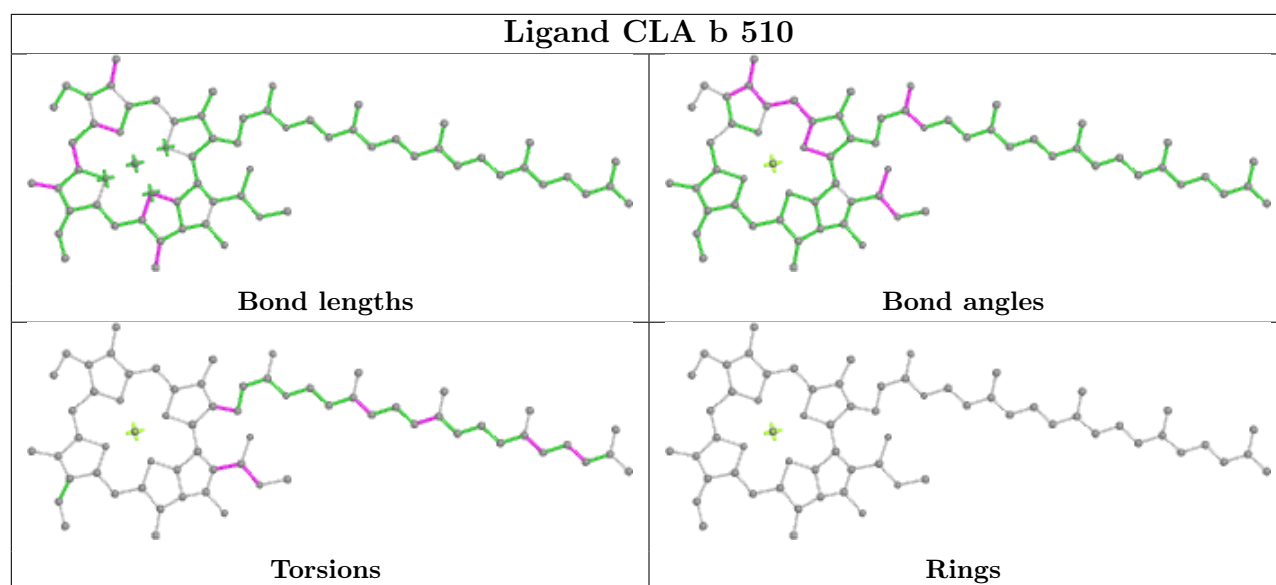


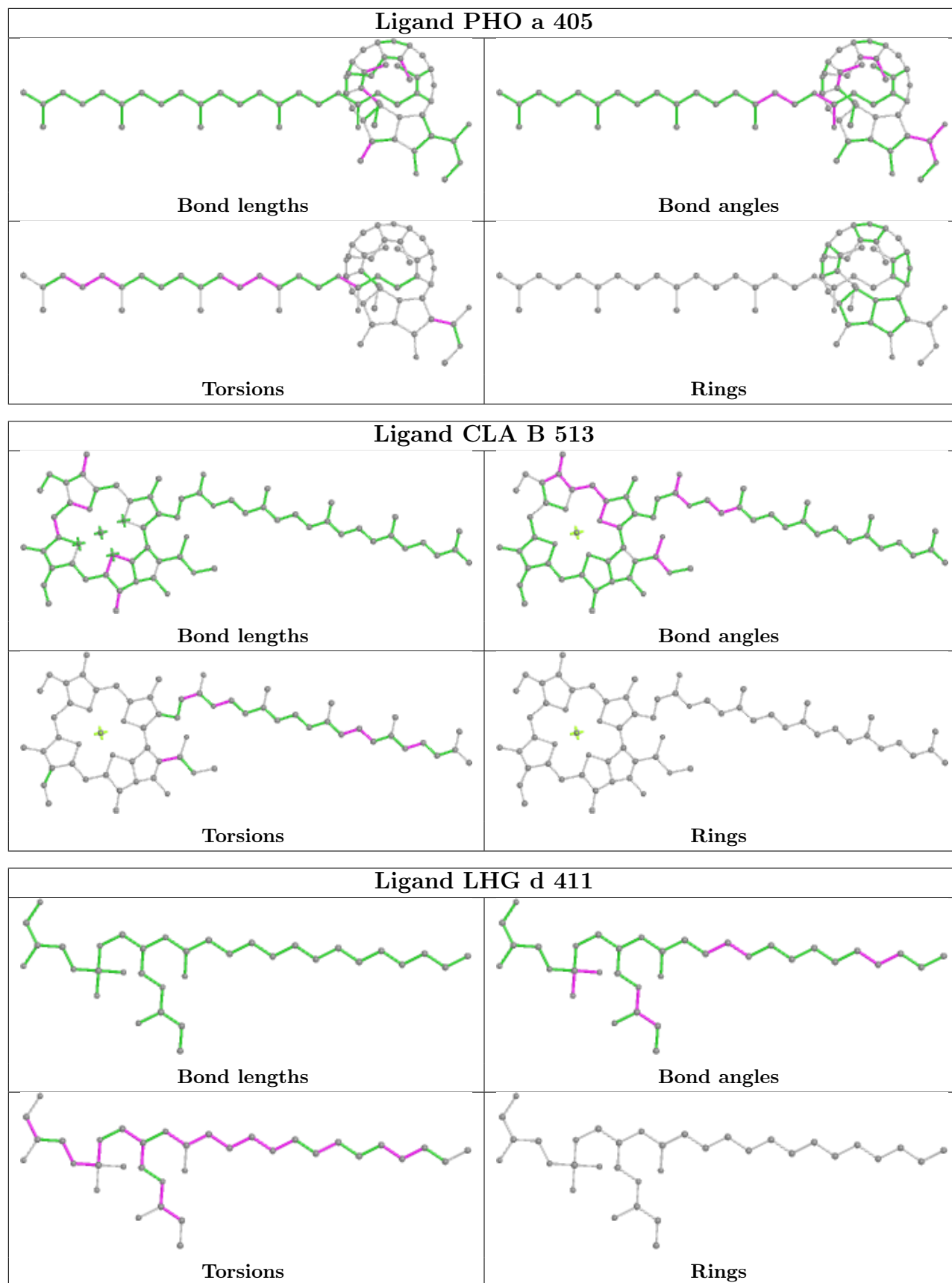


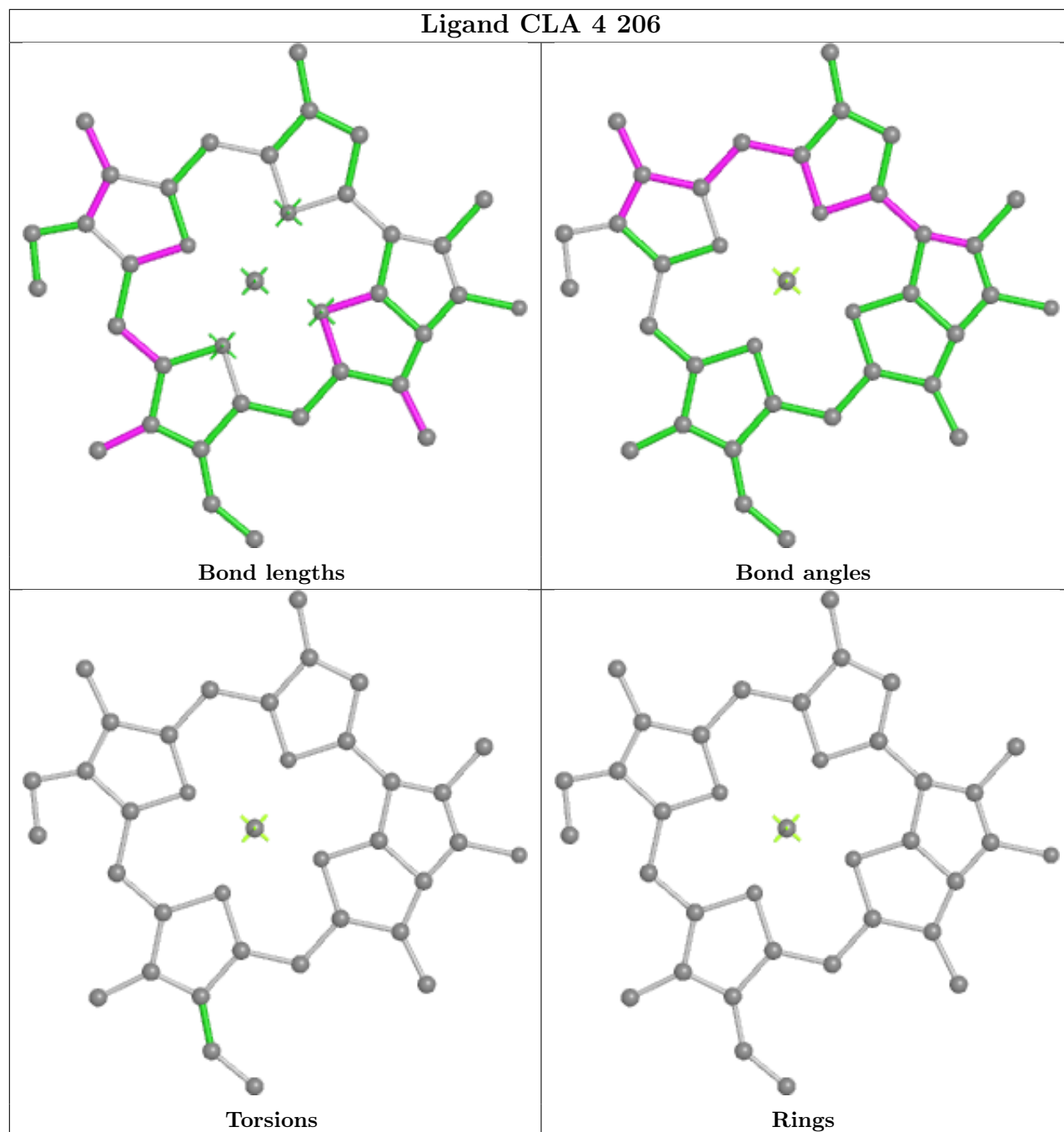
## Ligand CLA 6 214

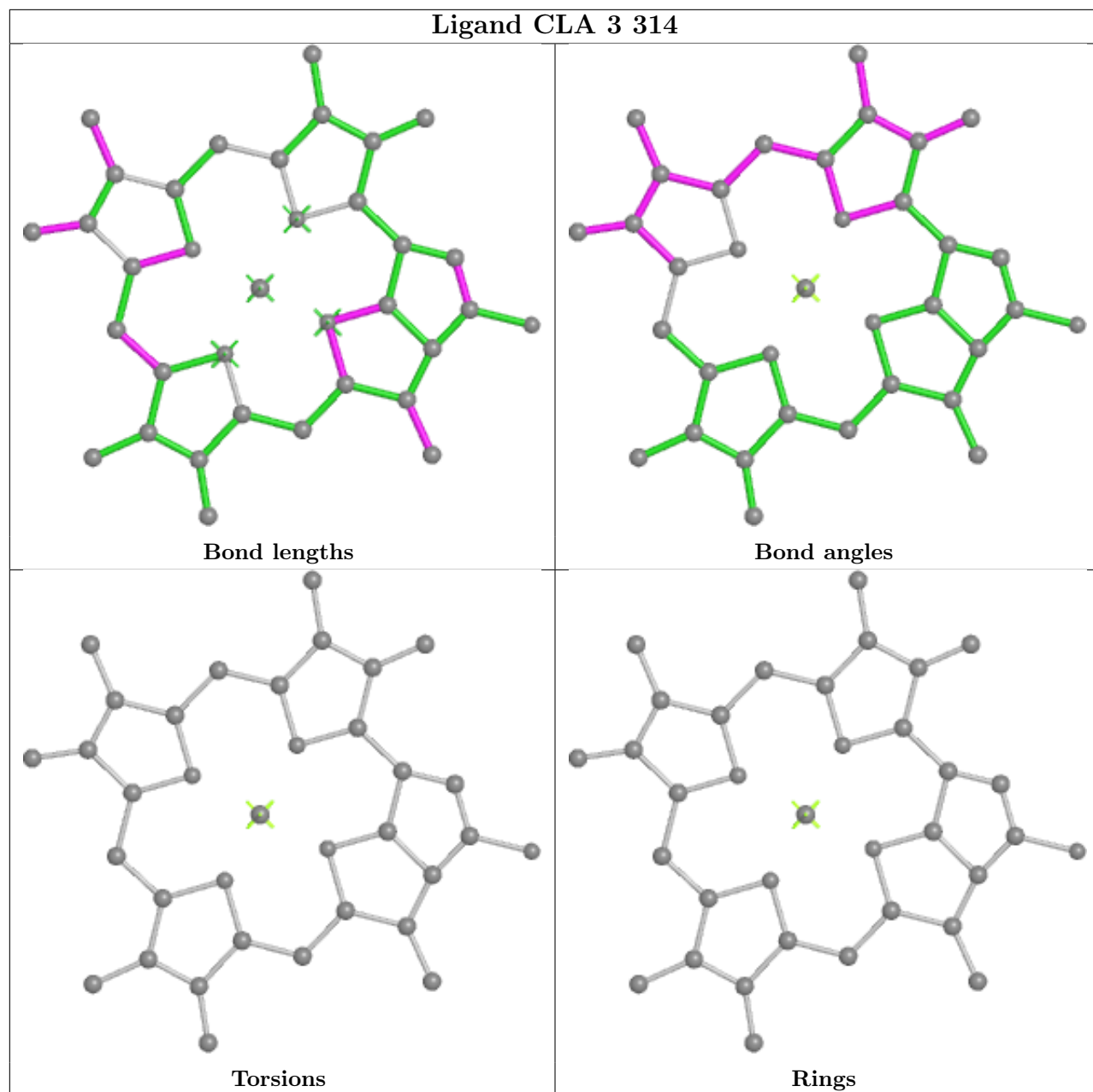


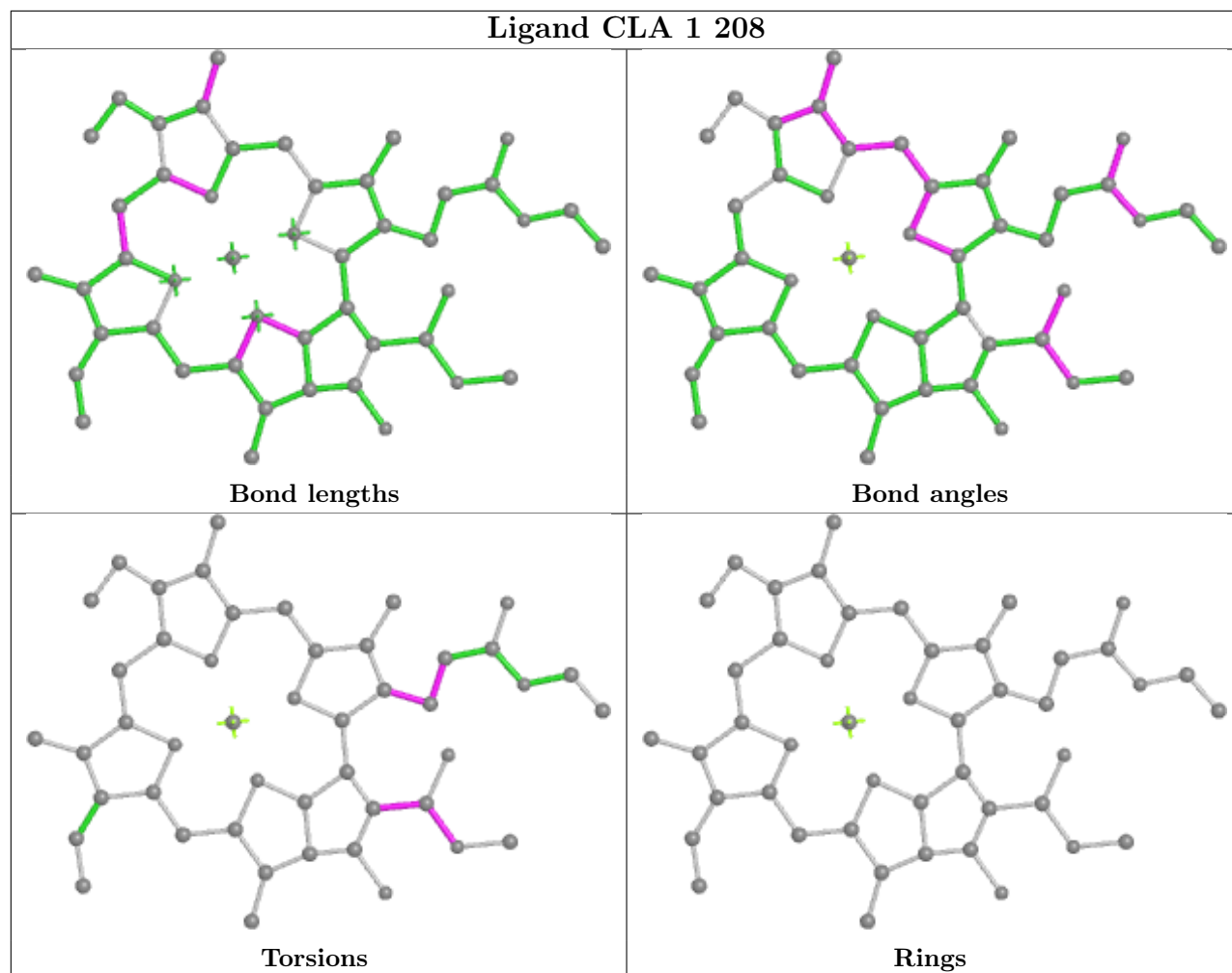


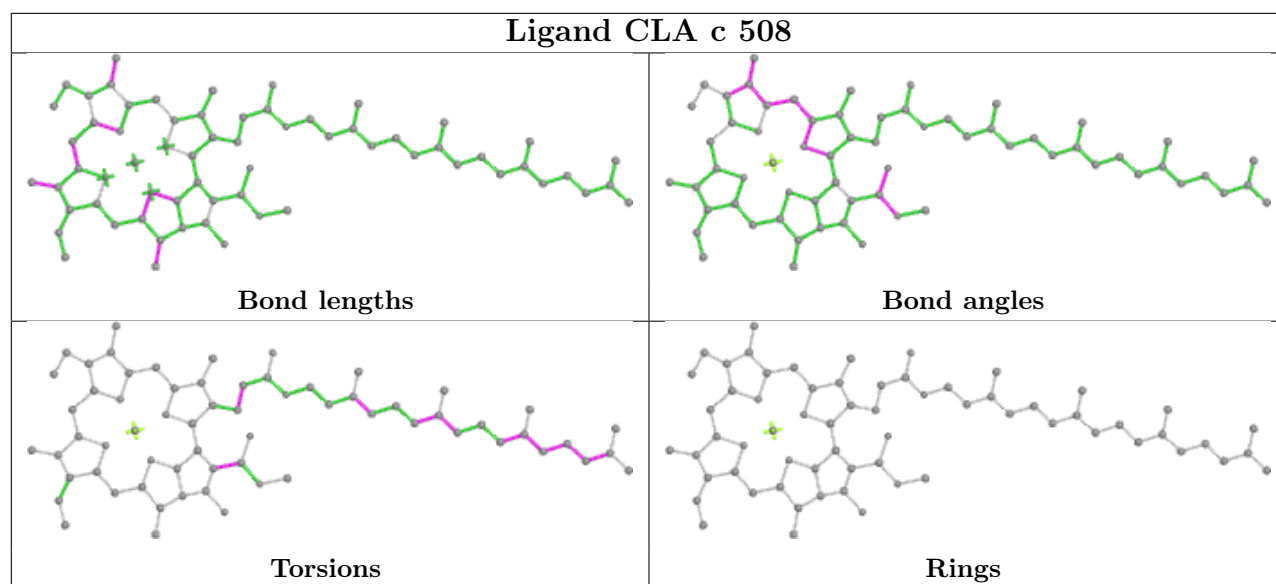
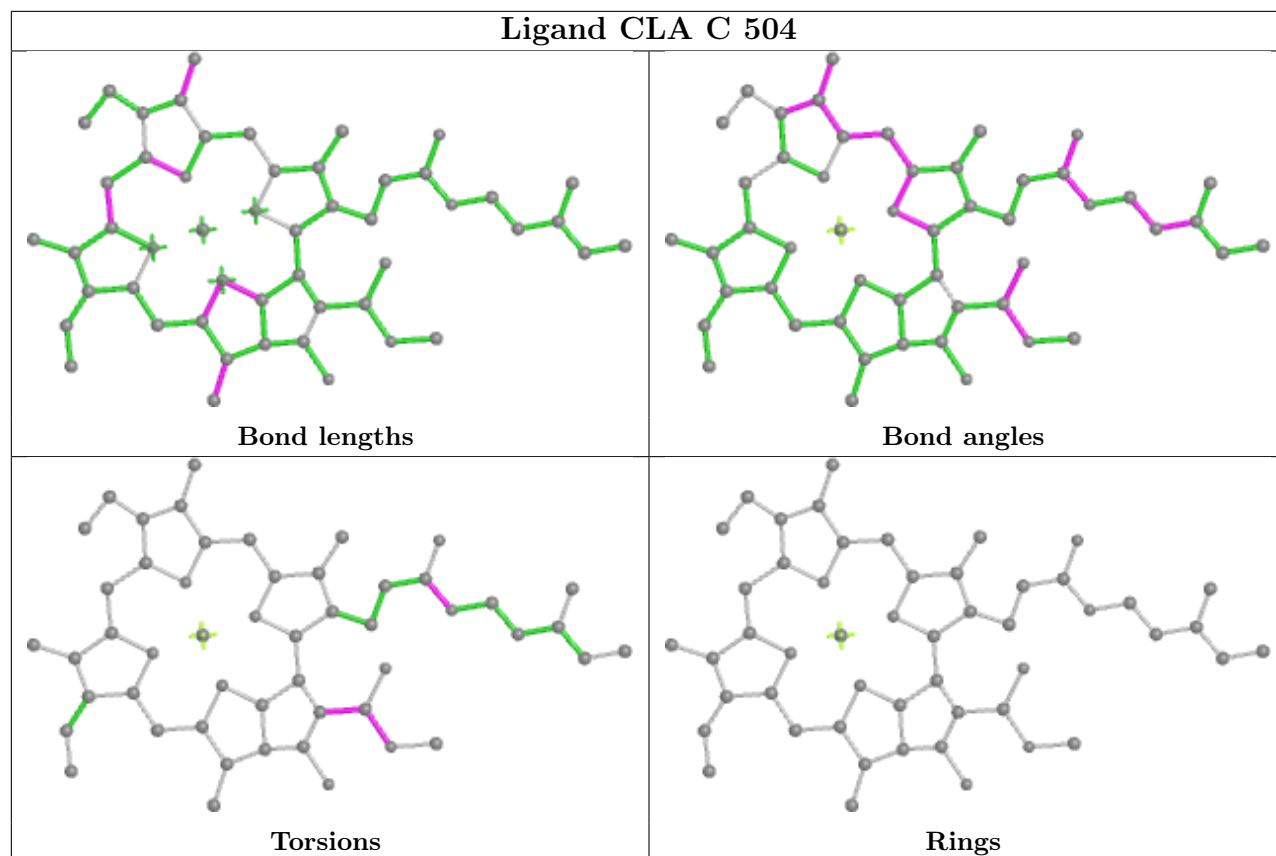


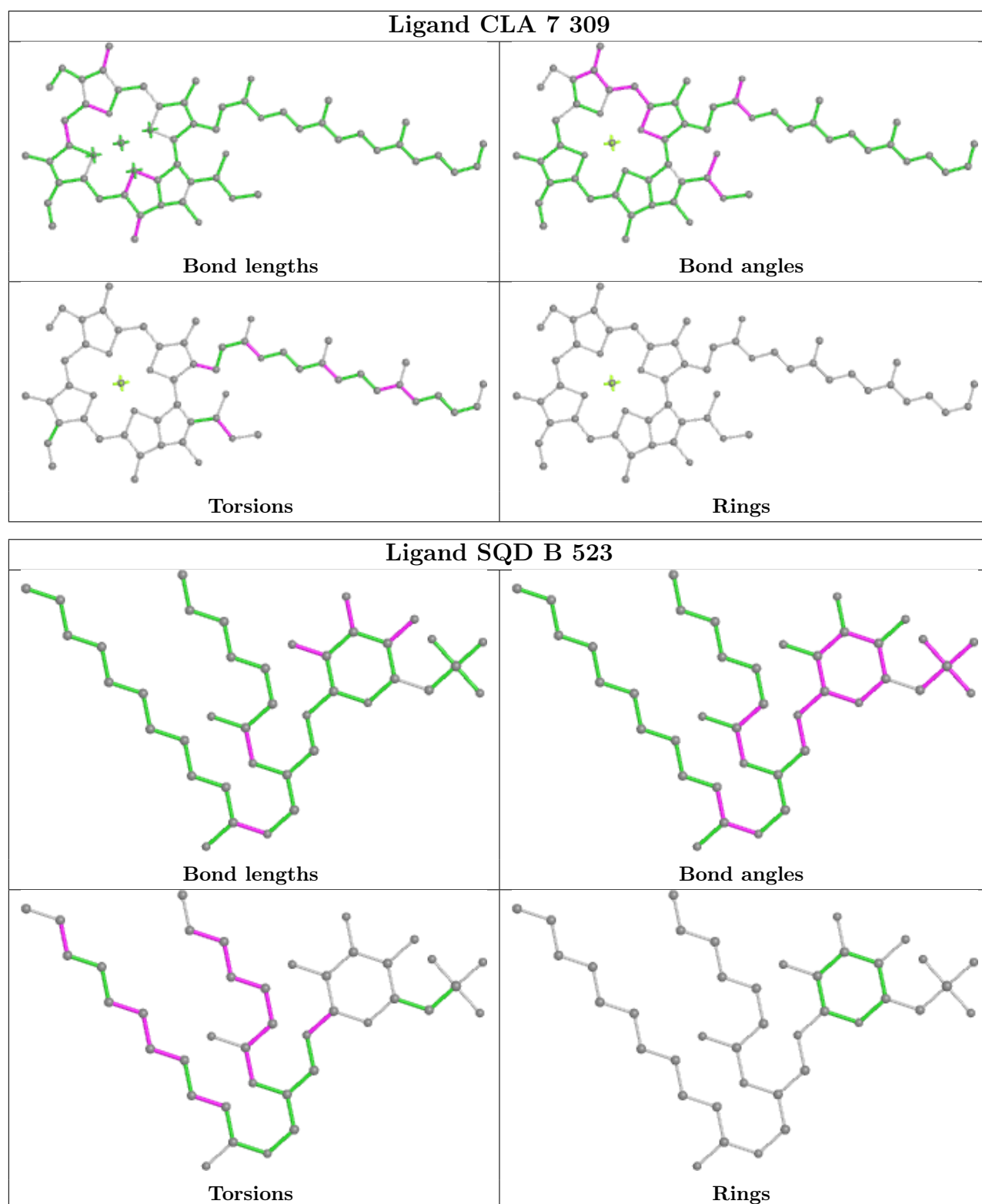


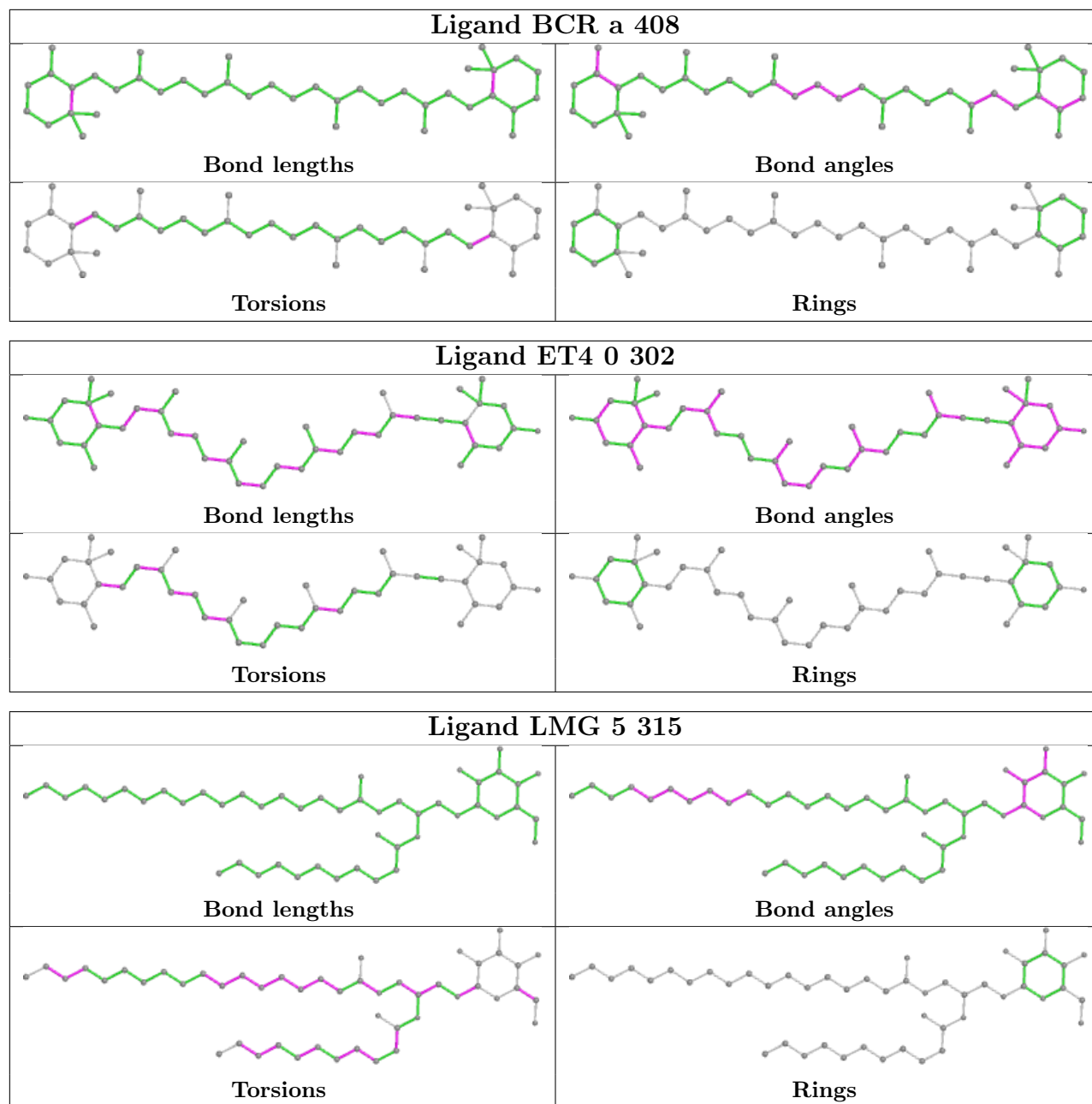




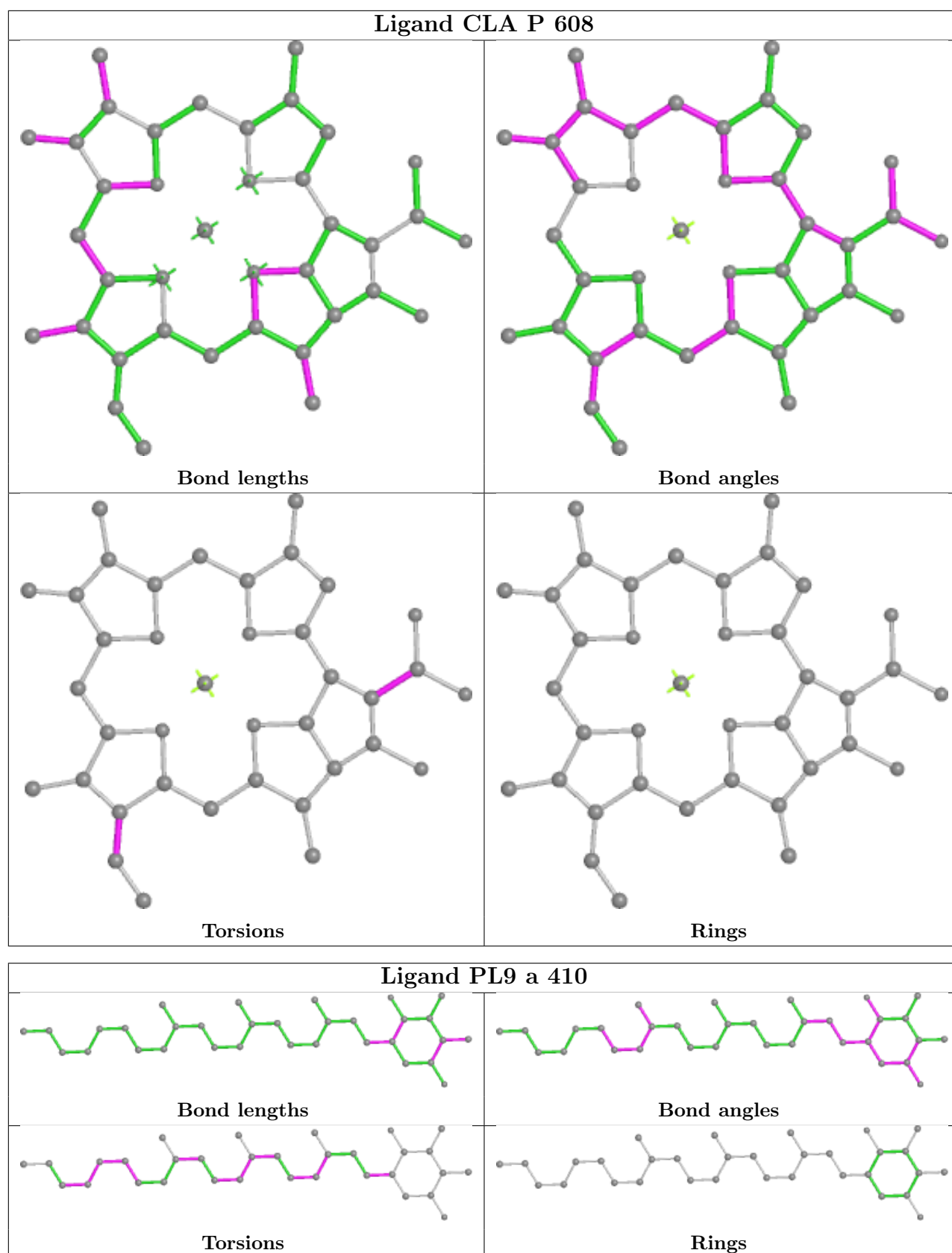


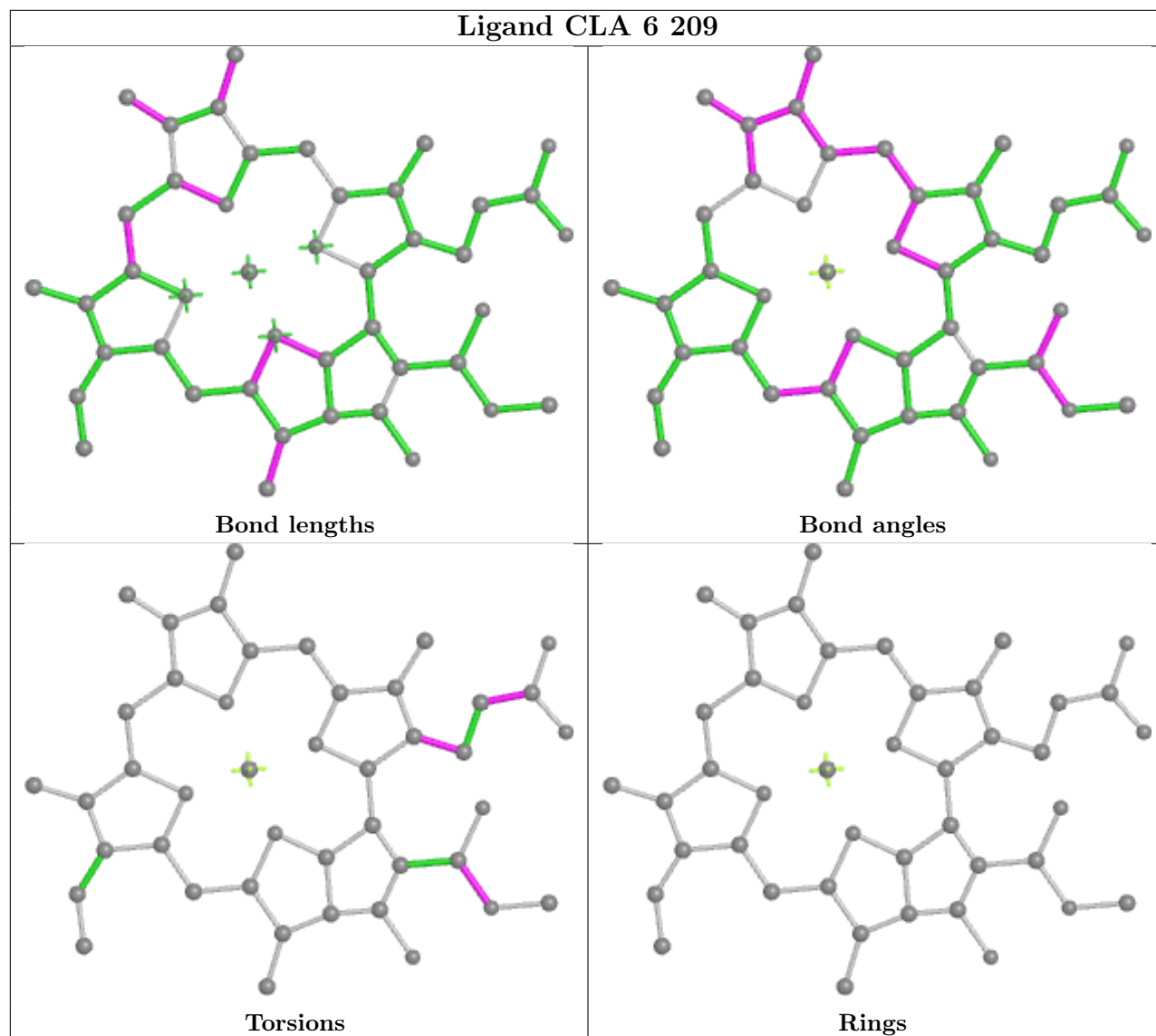


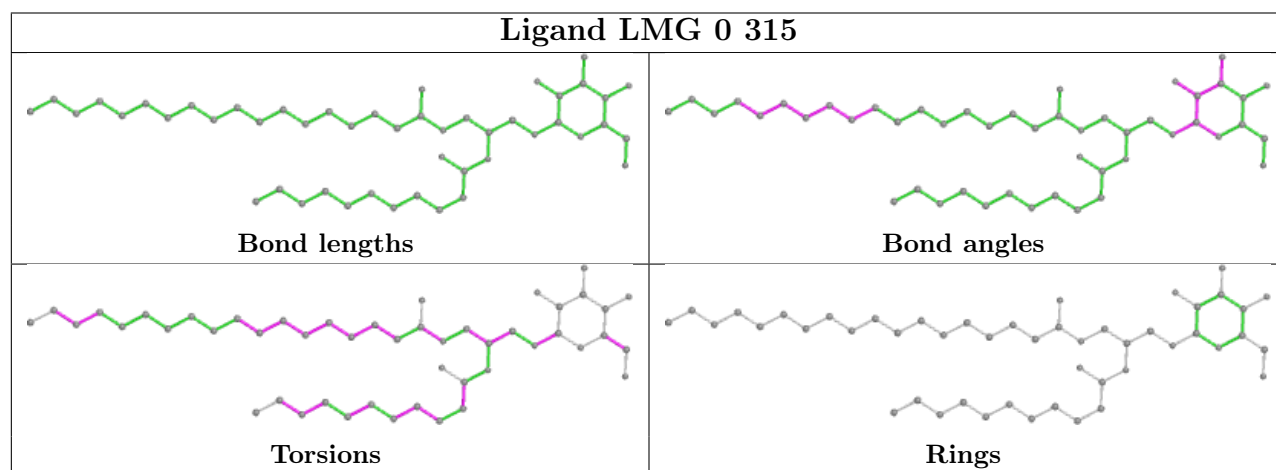
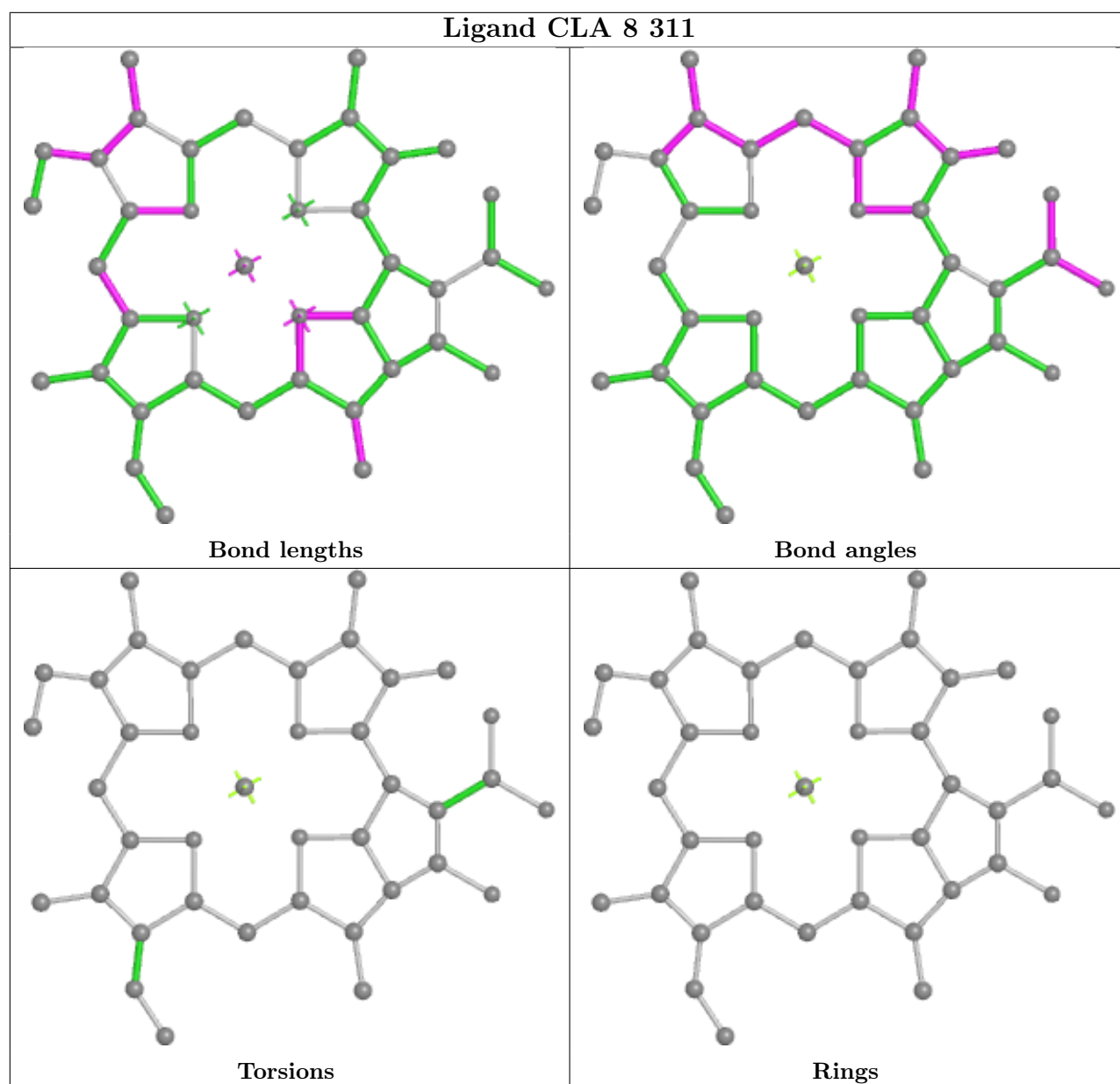


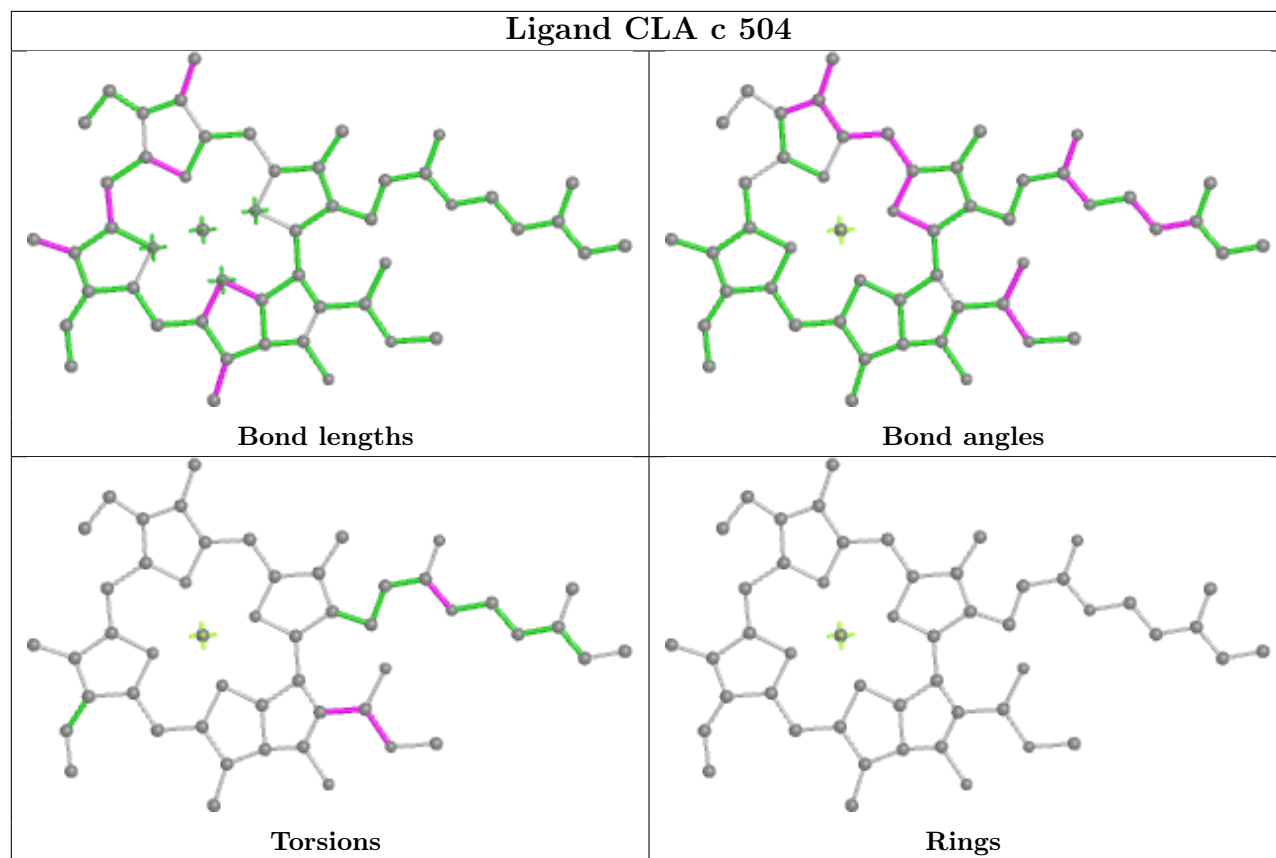


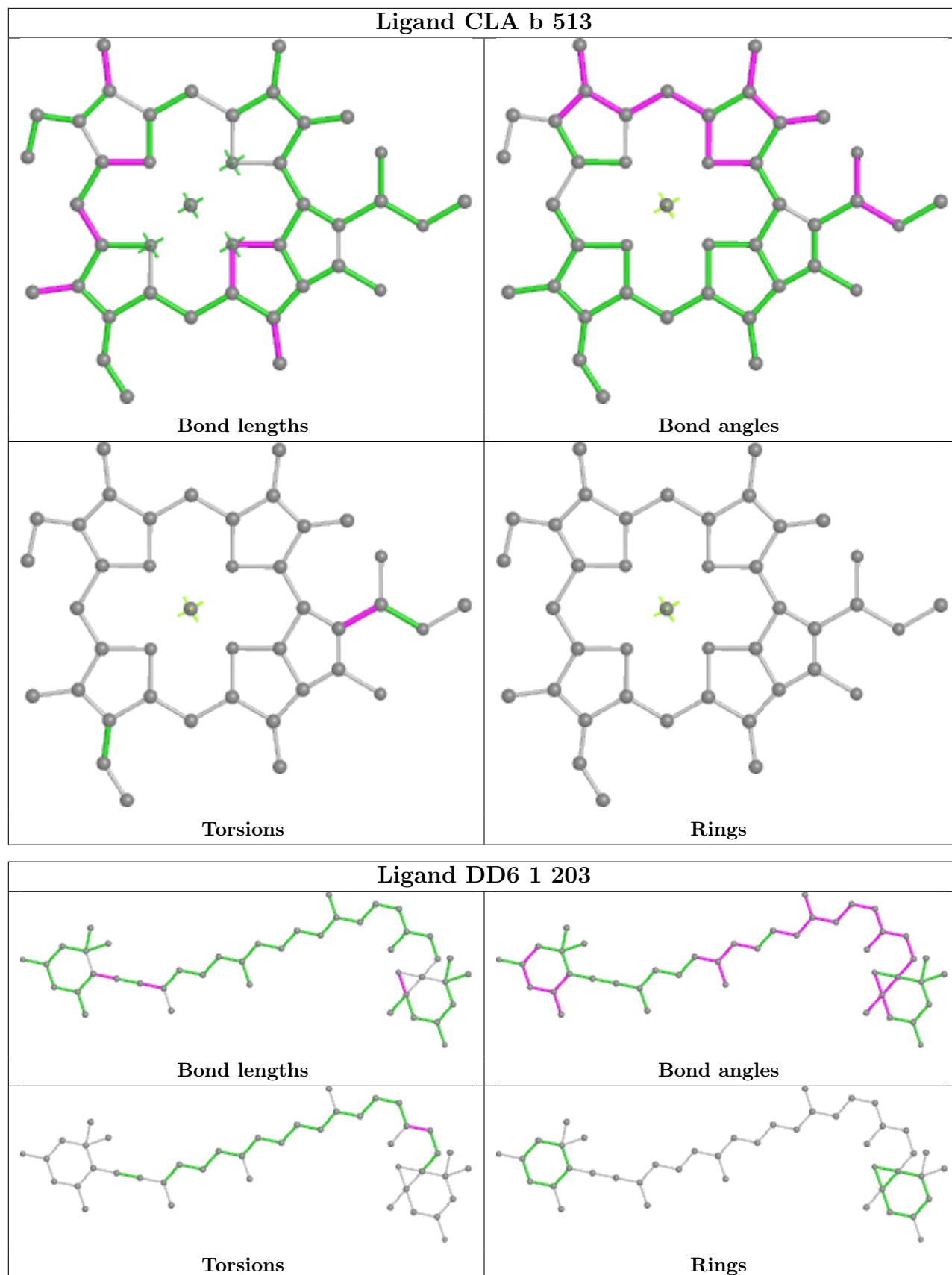


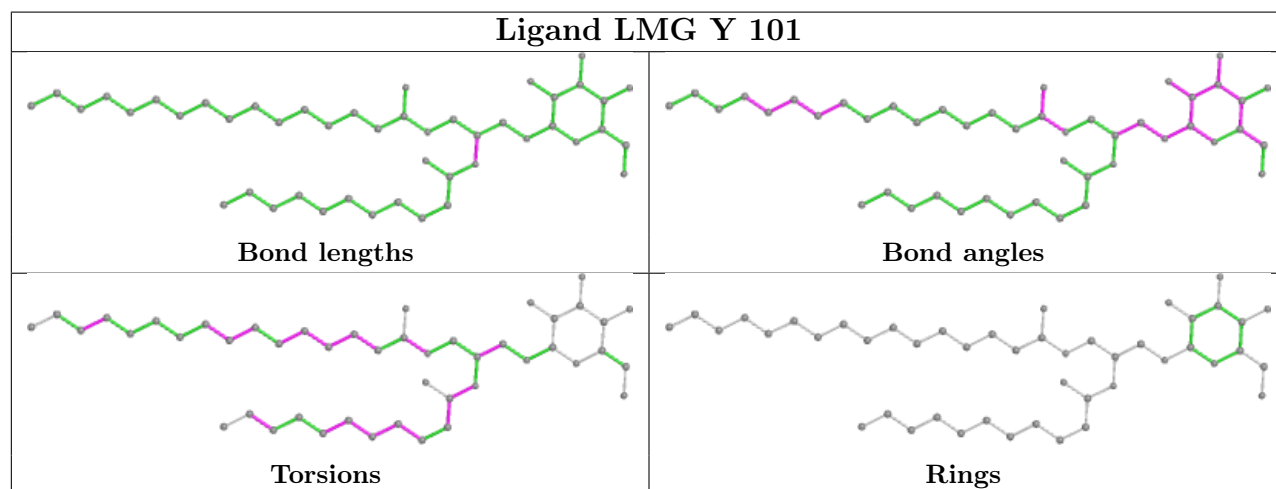
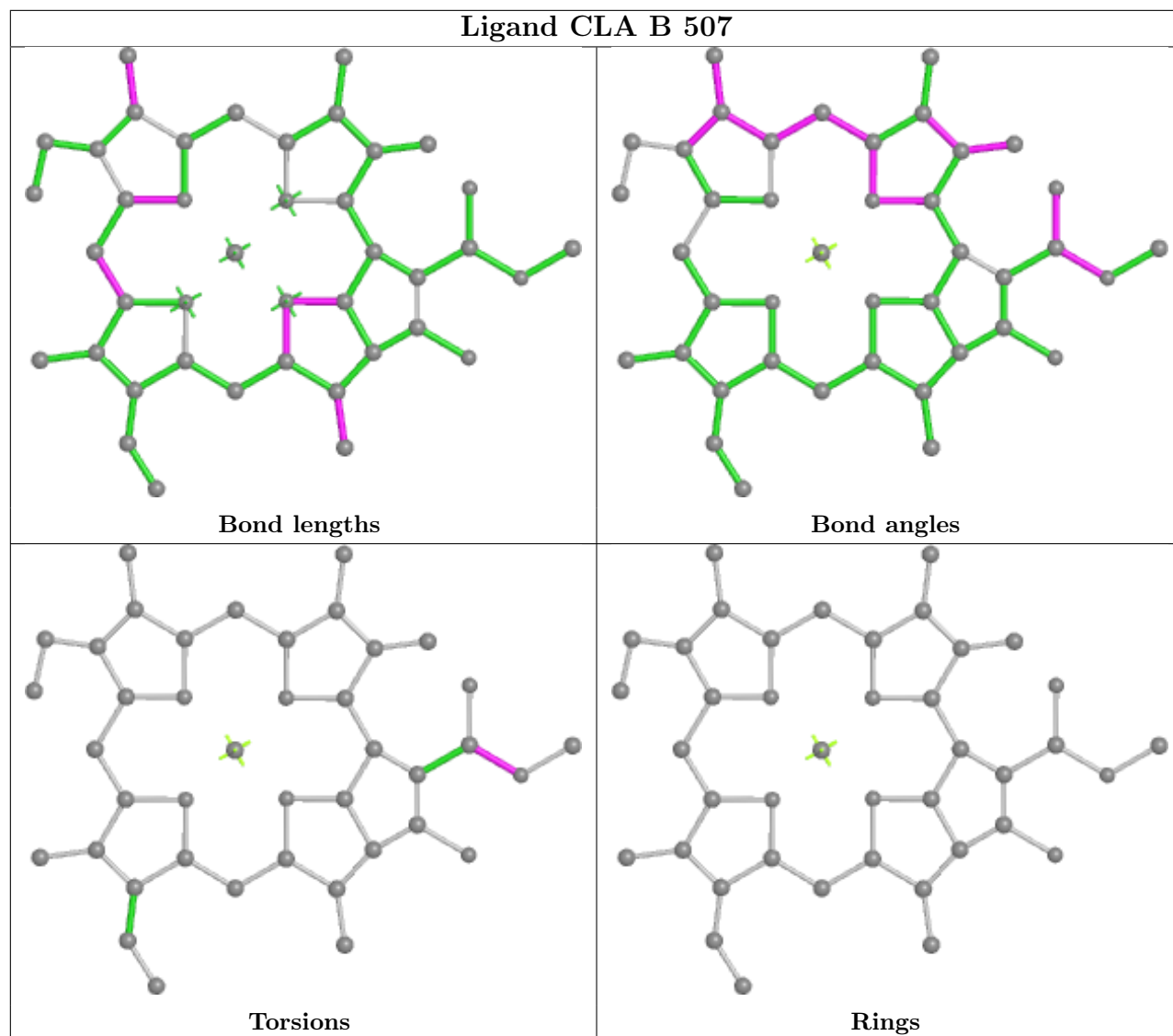


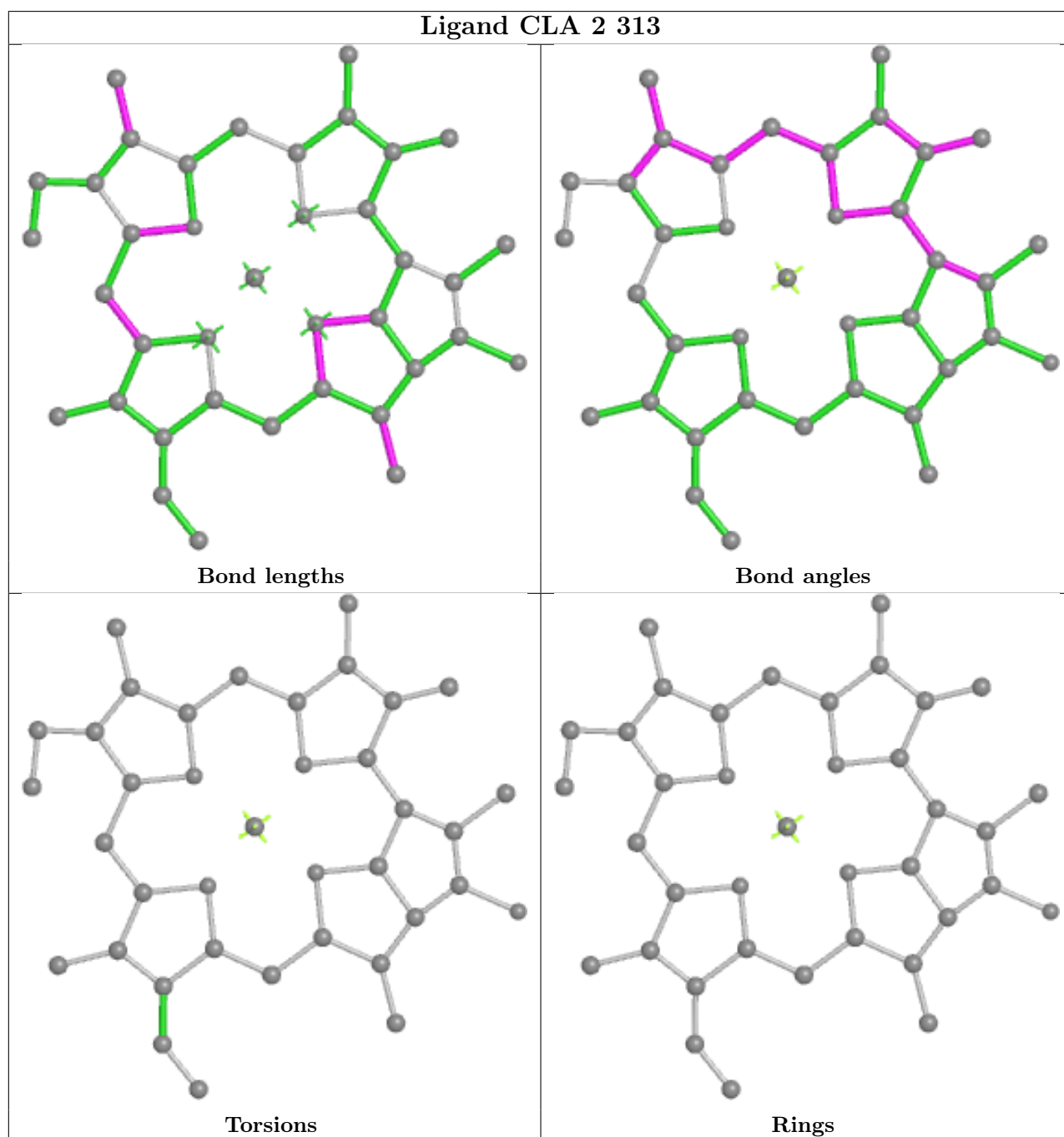
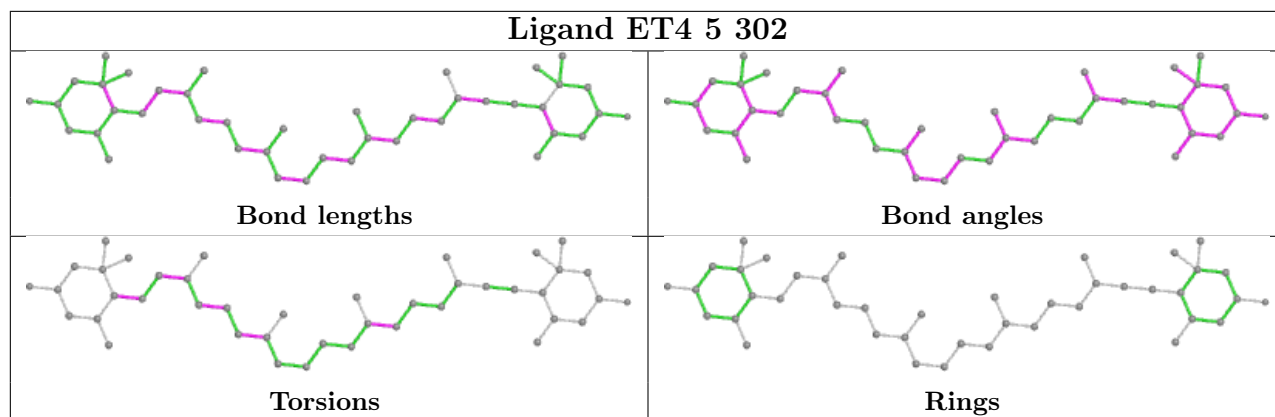


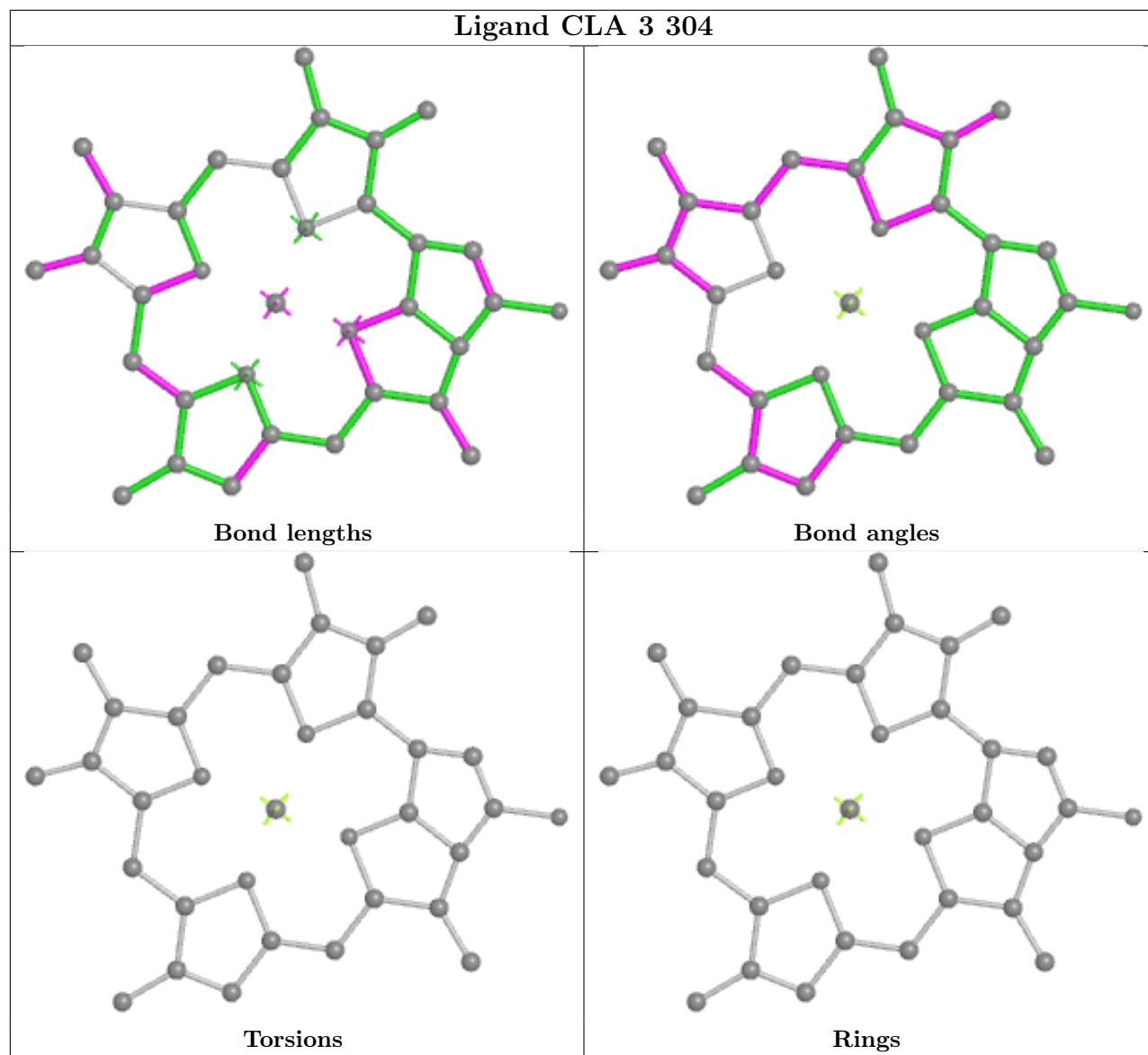




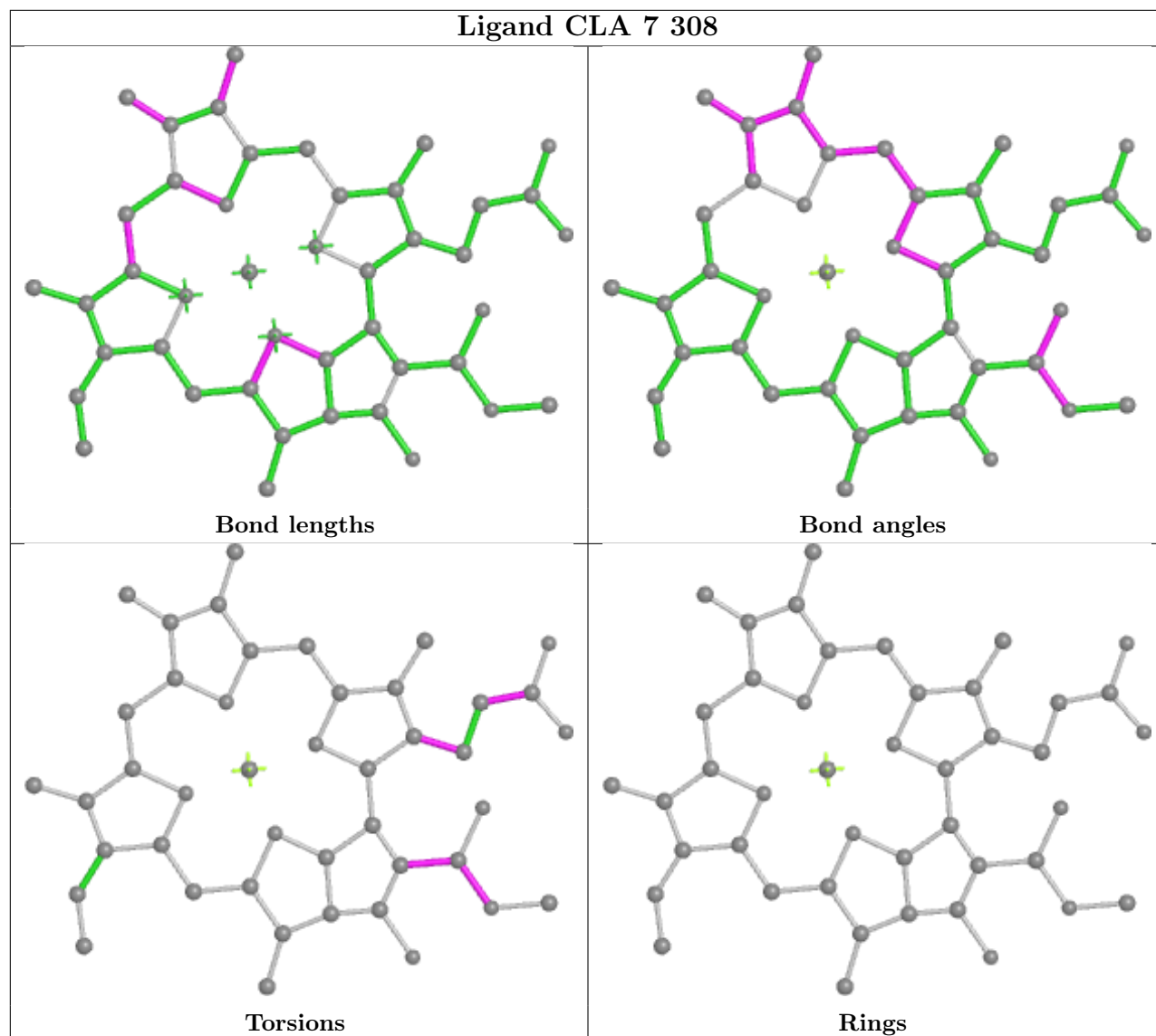


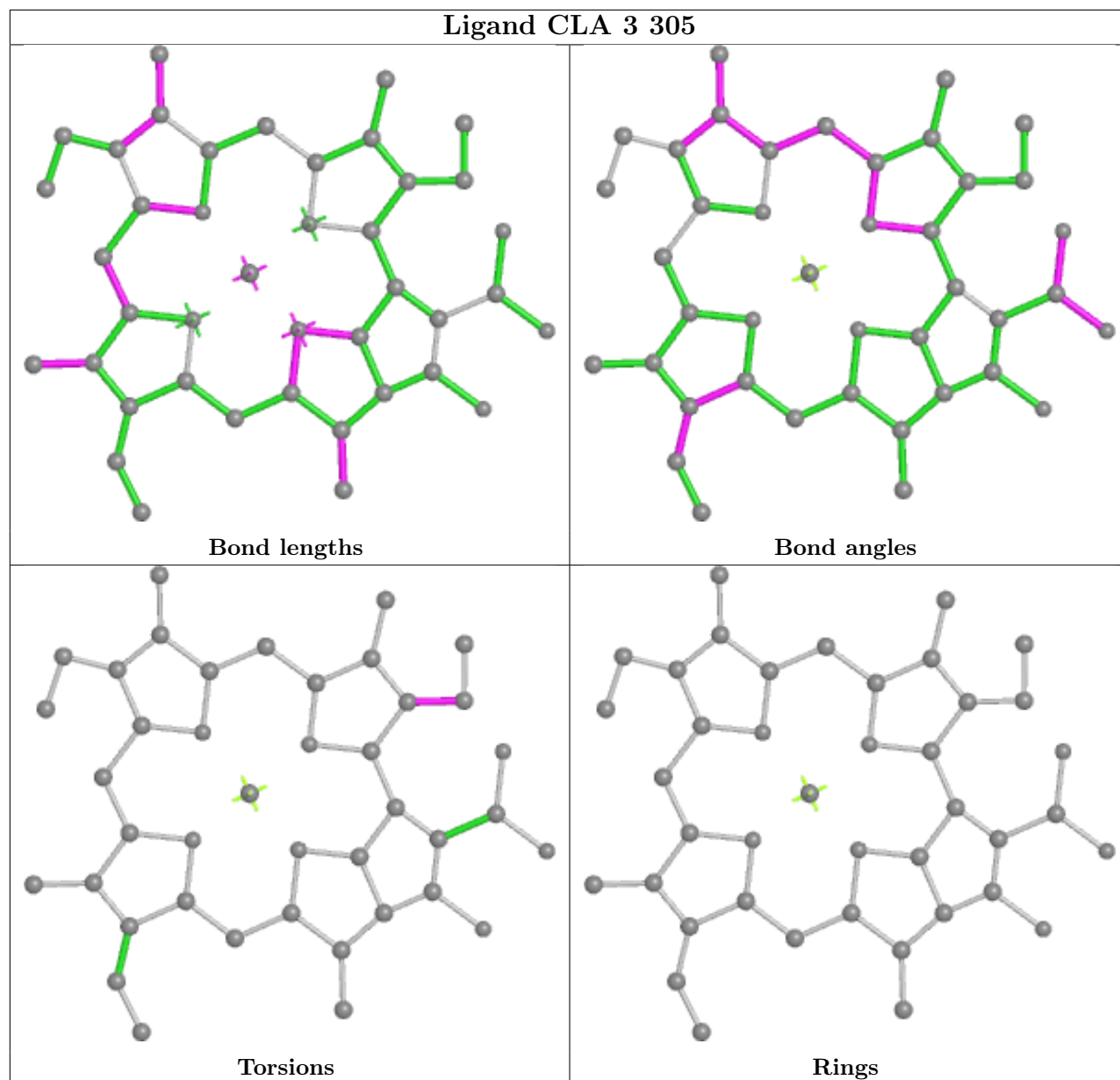


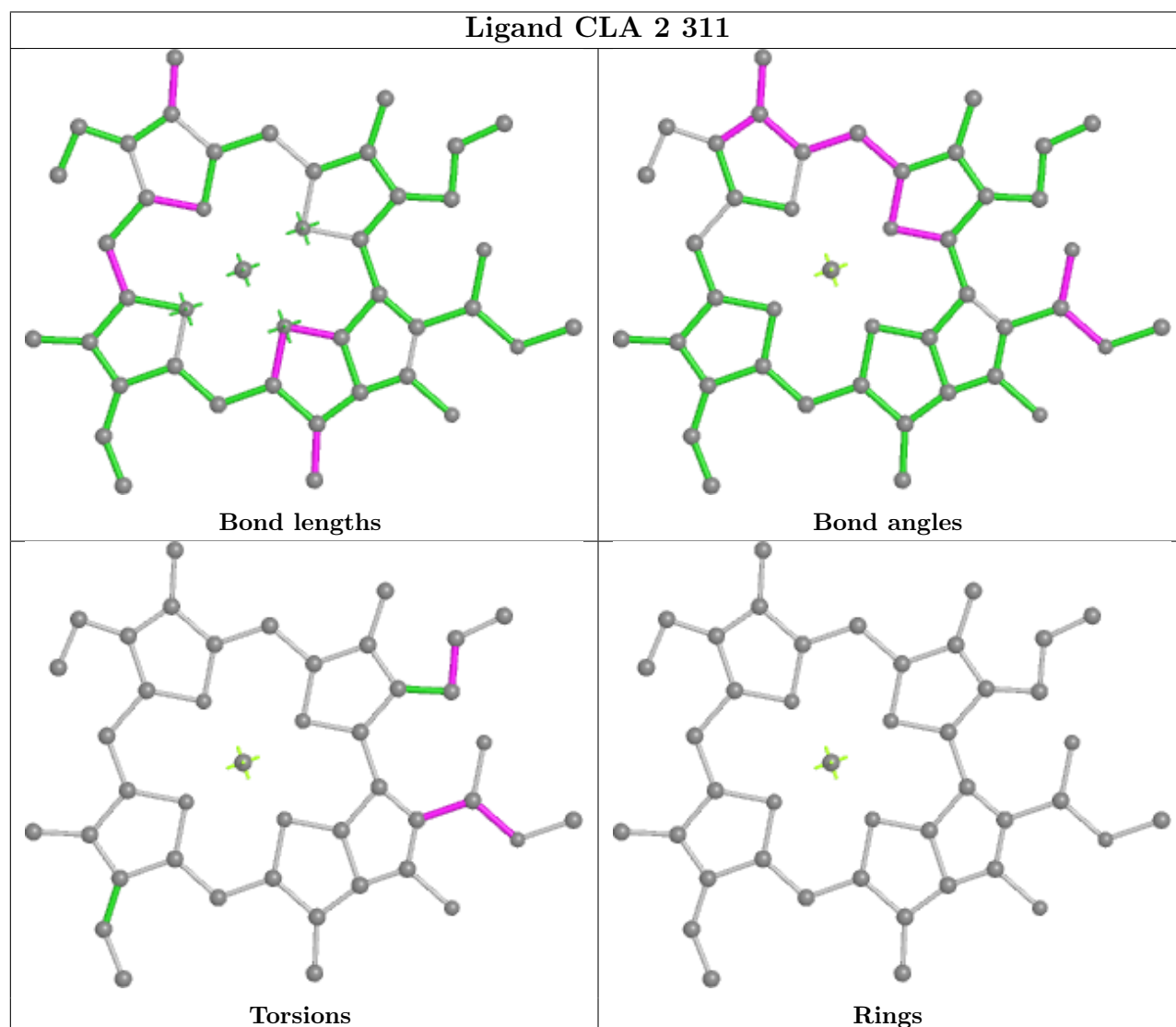
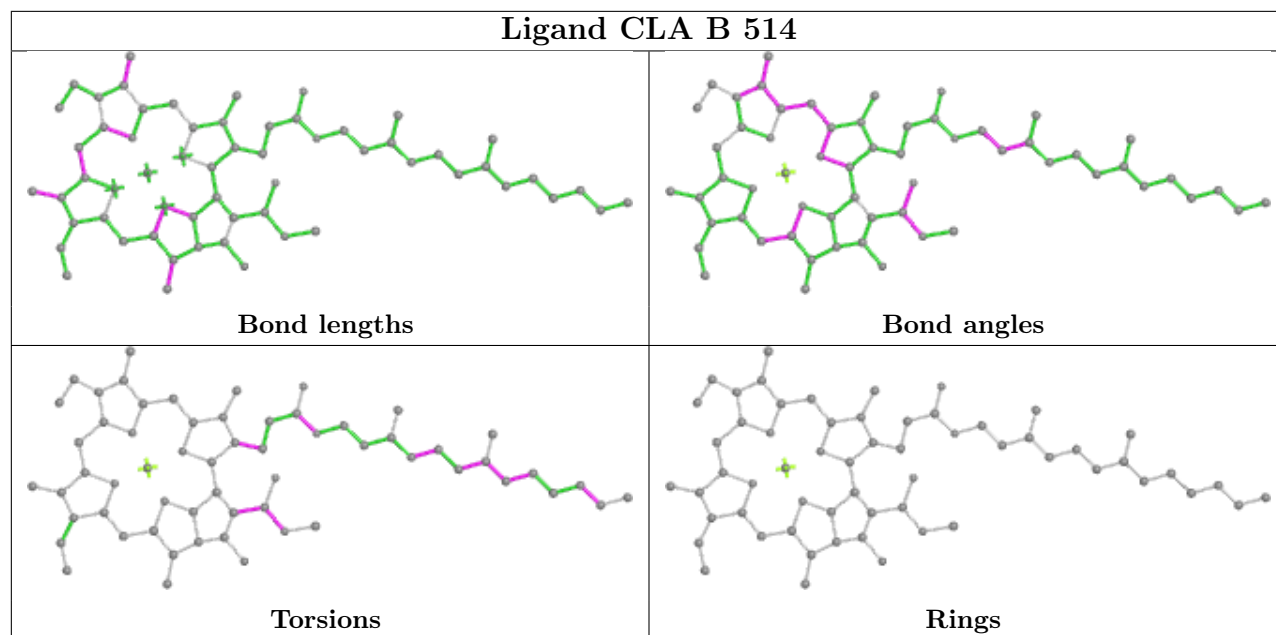


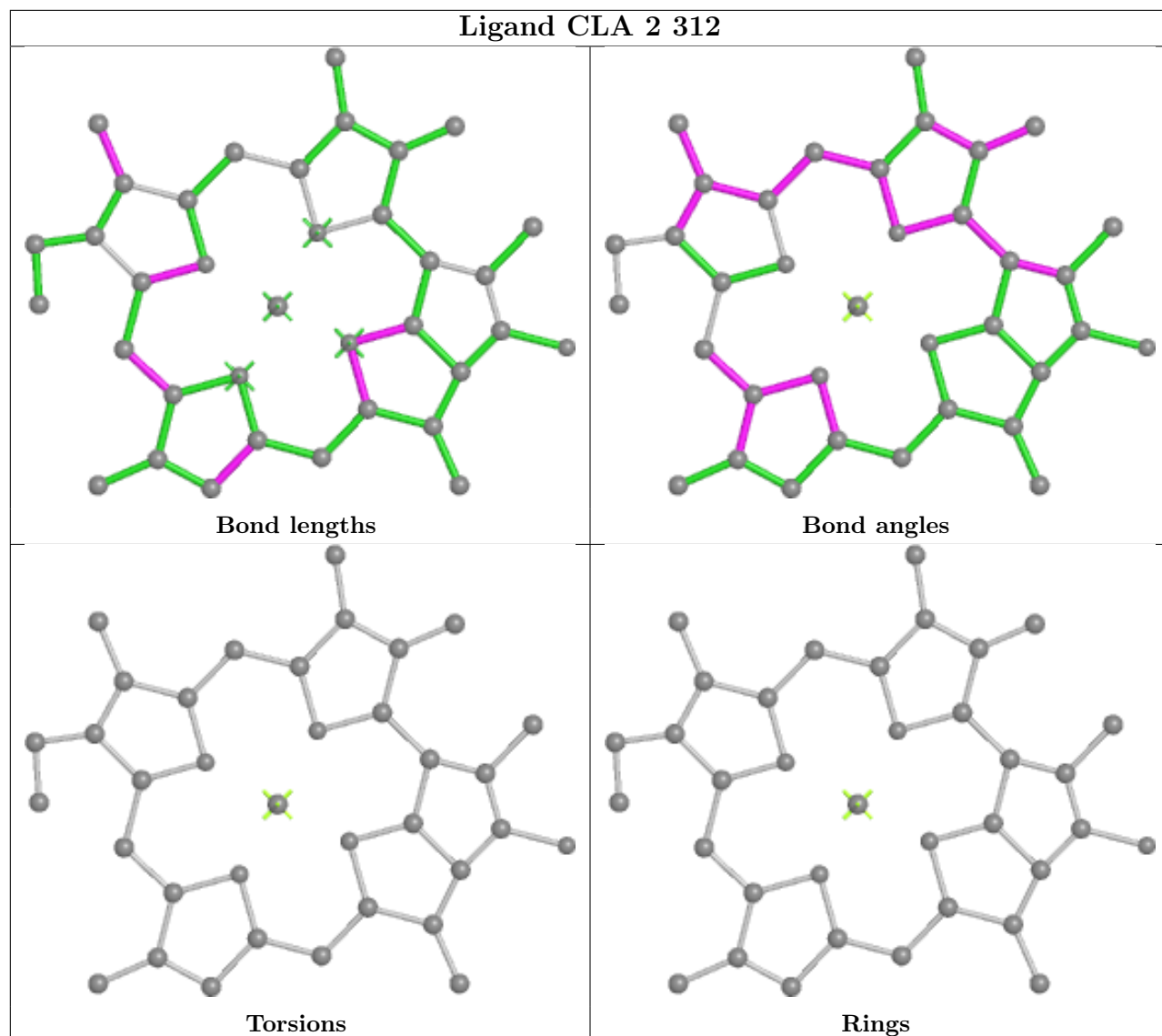


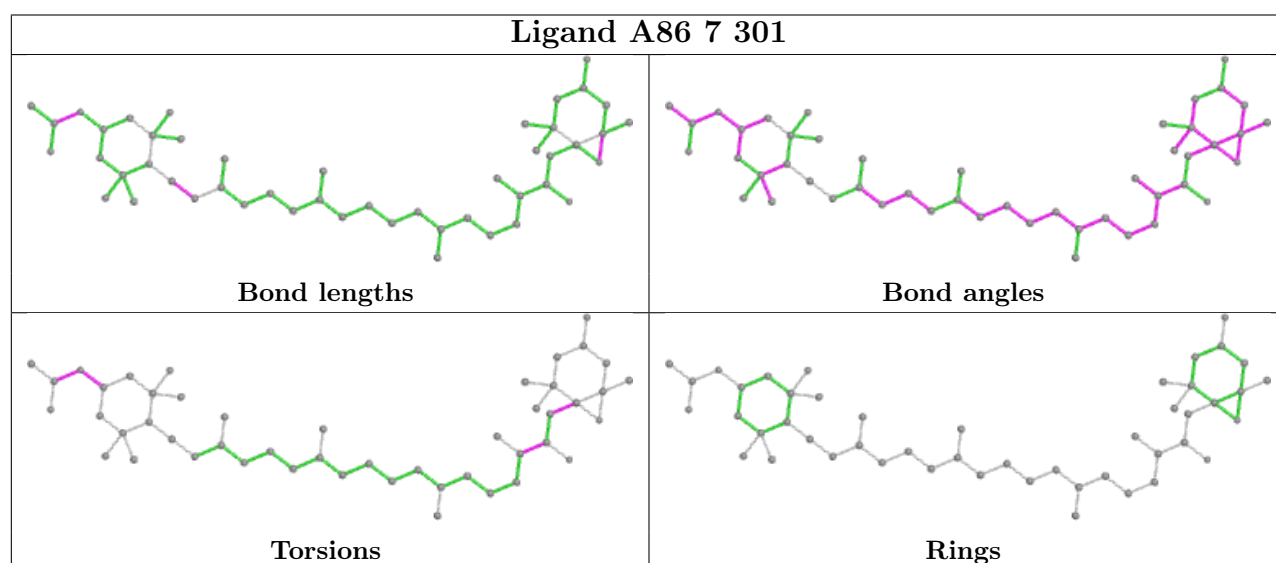
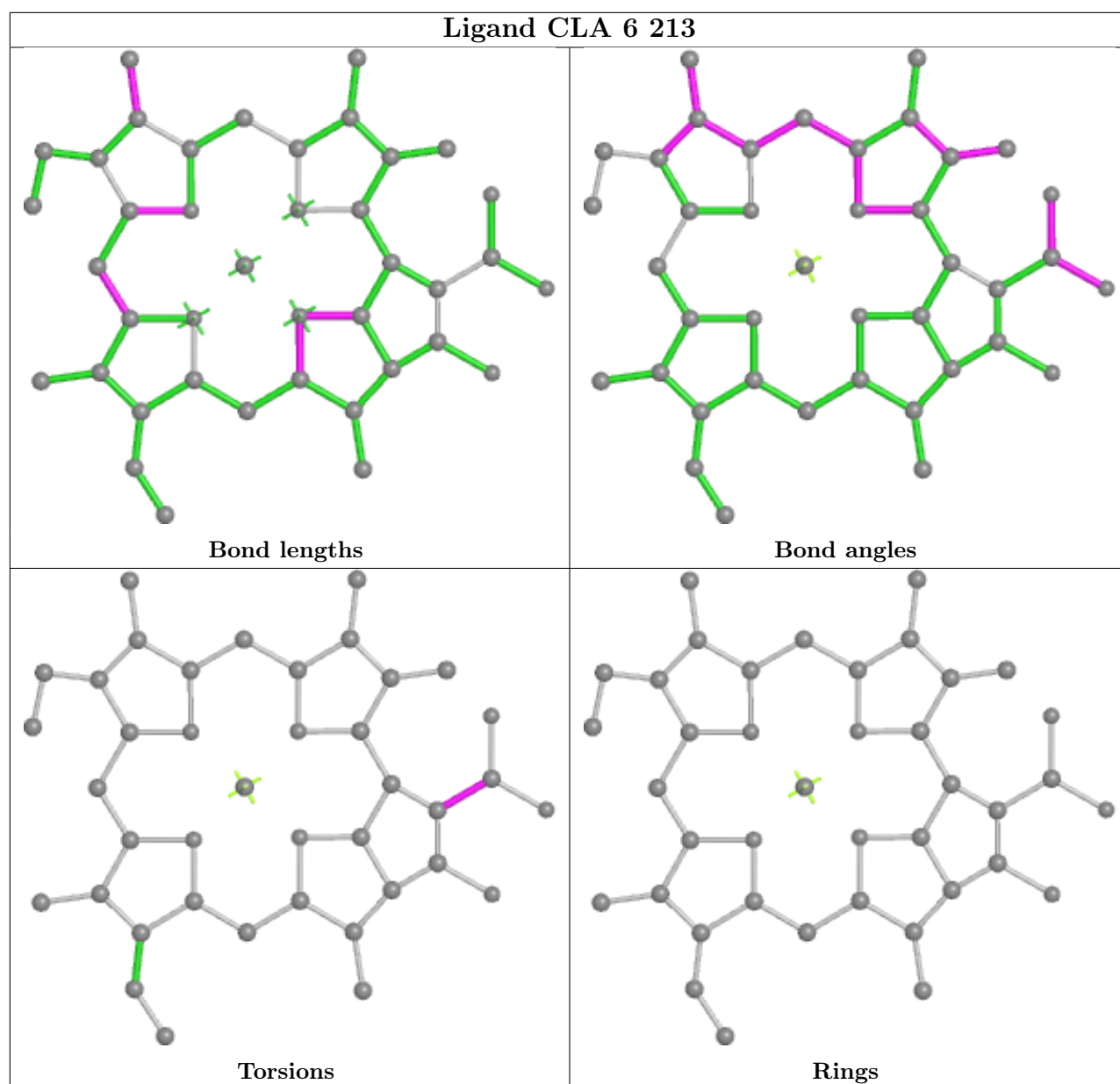


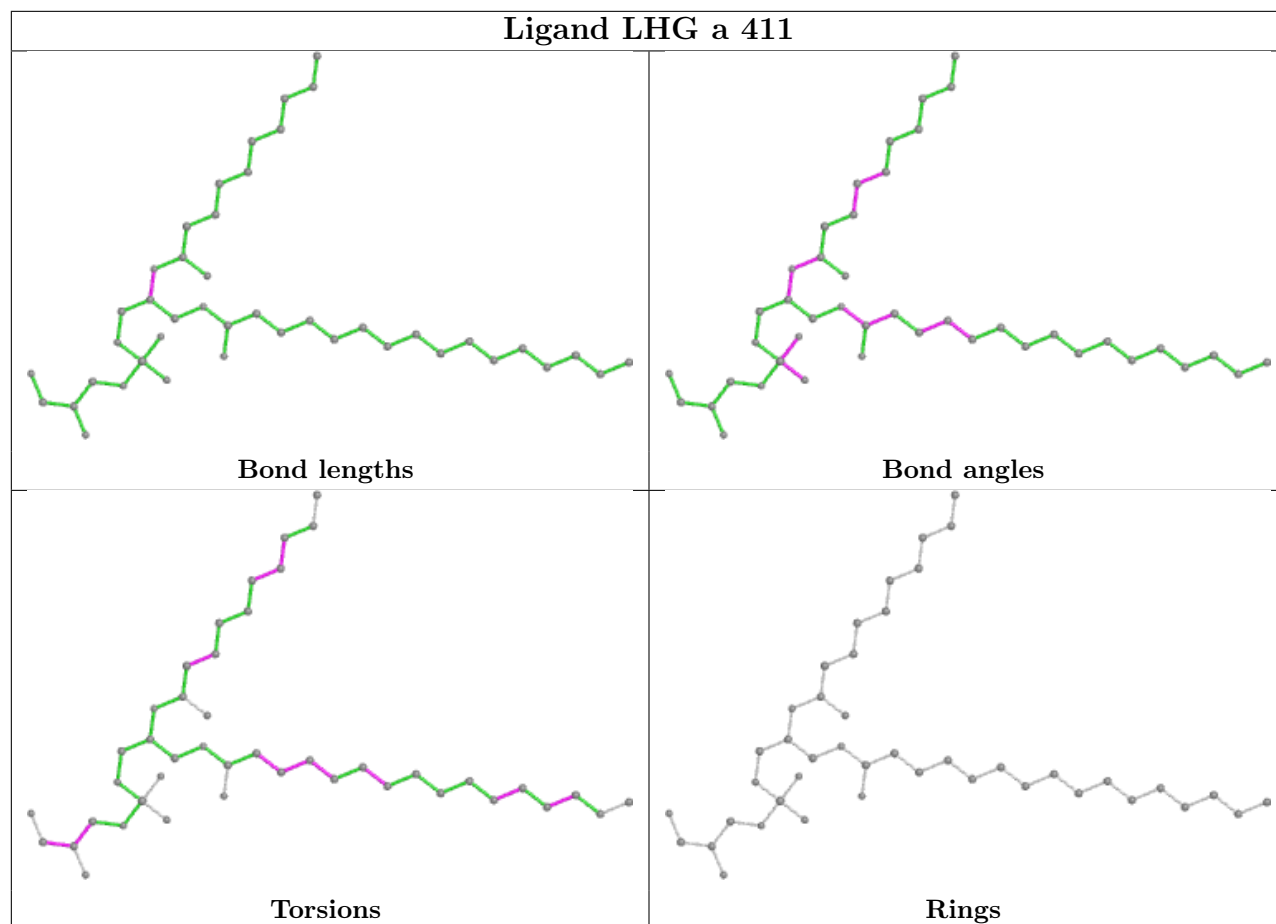
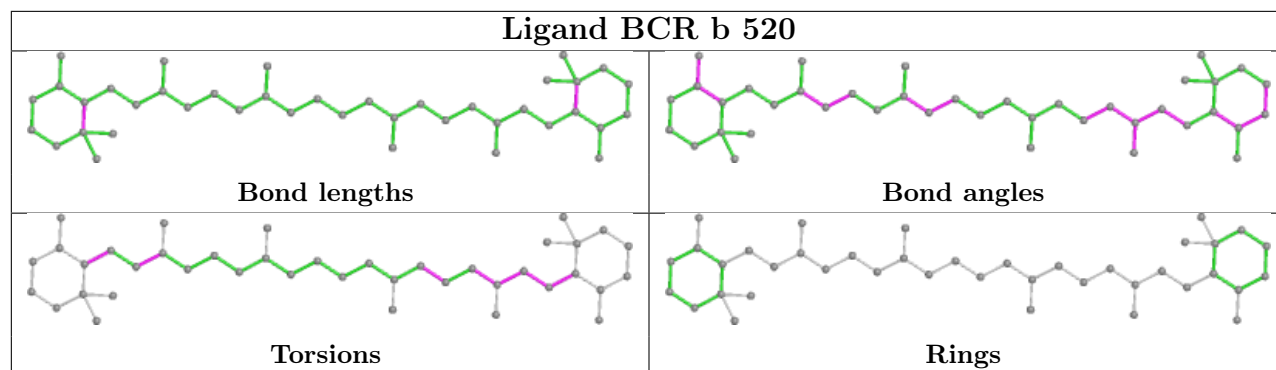


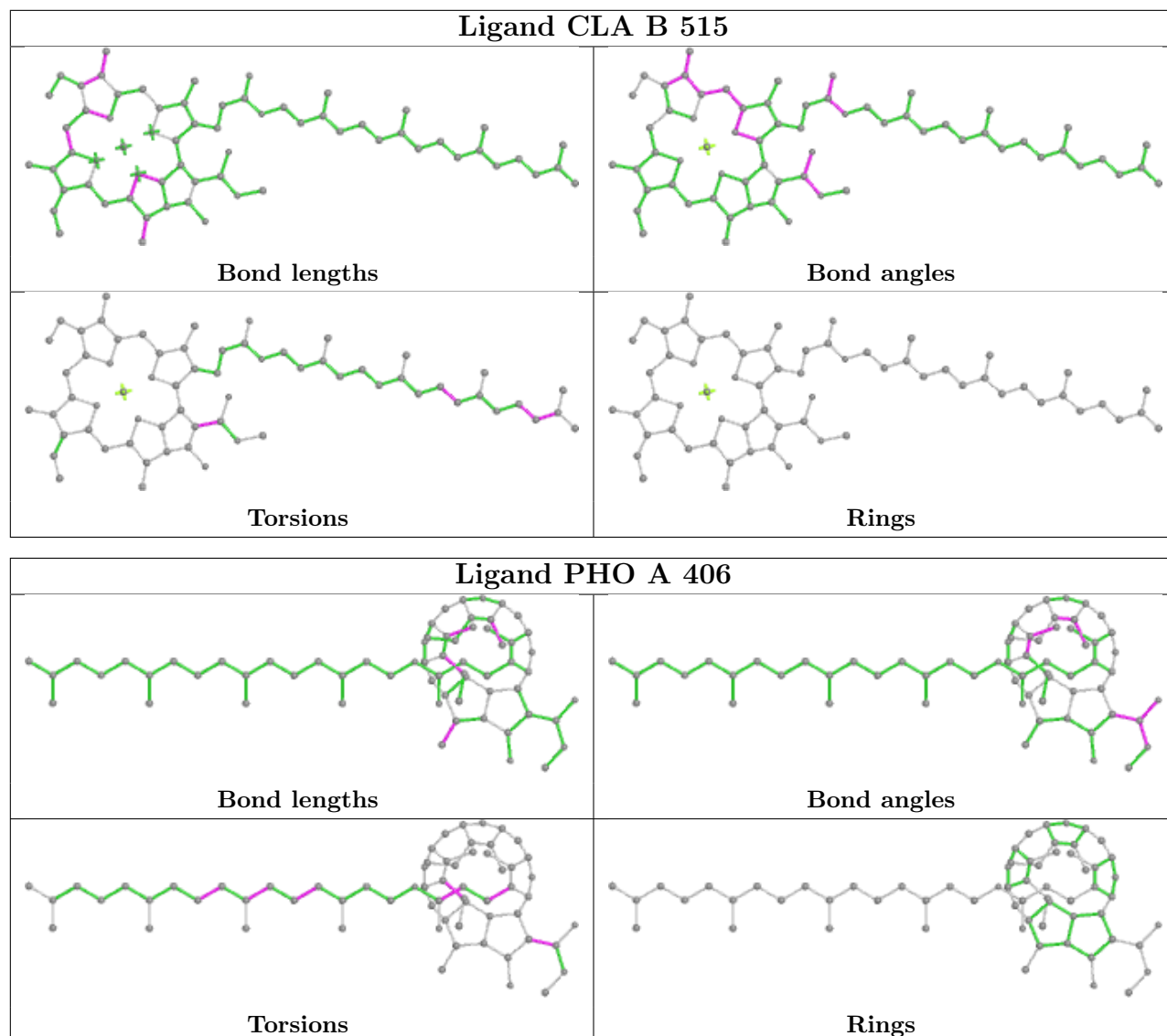


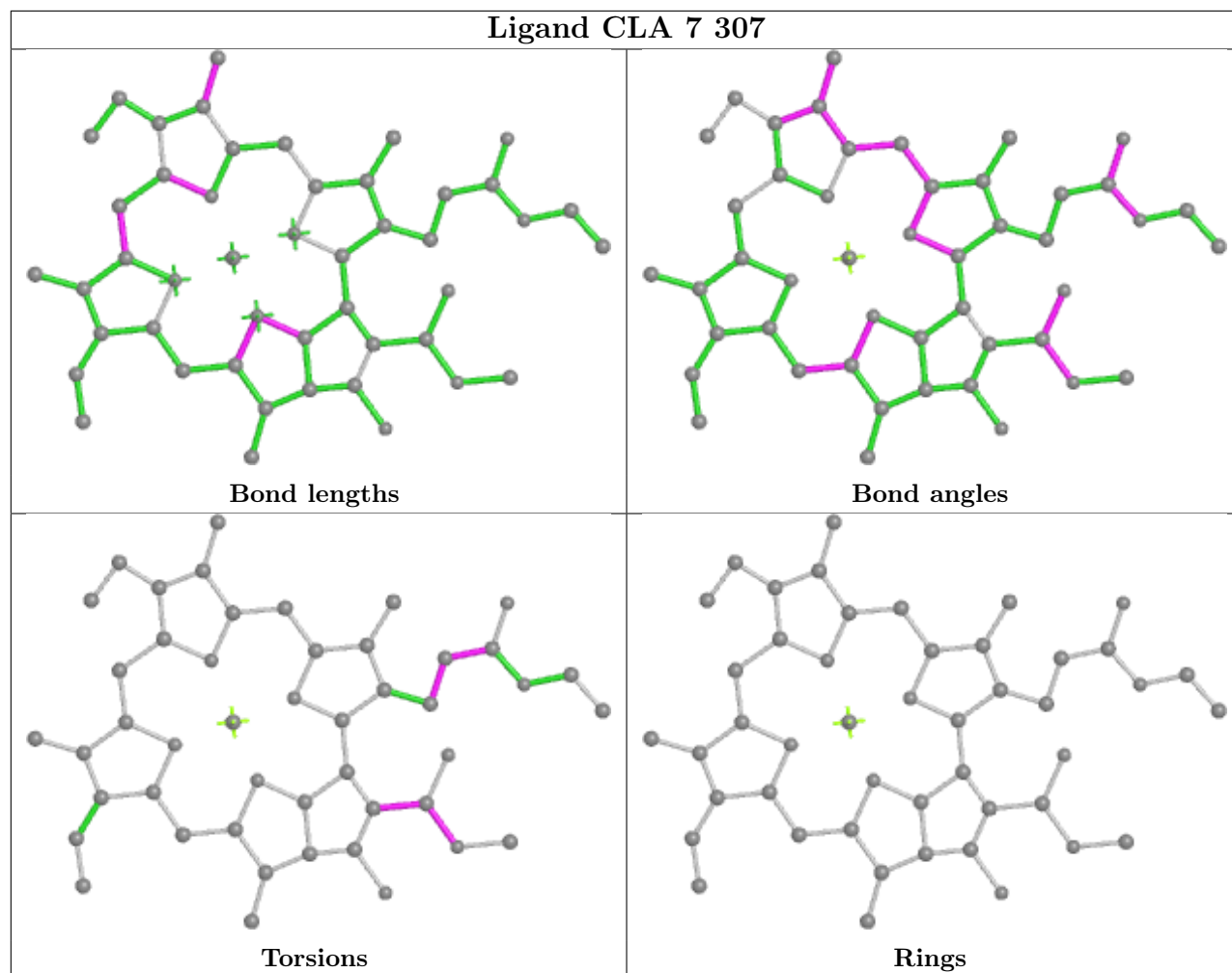




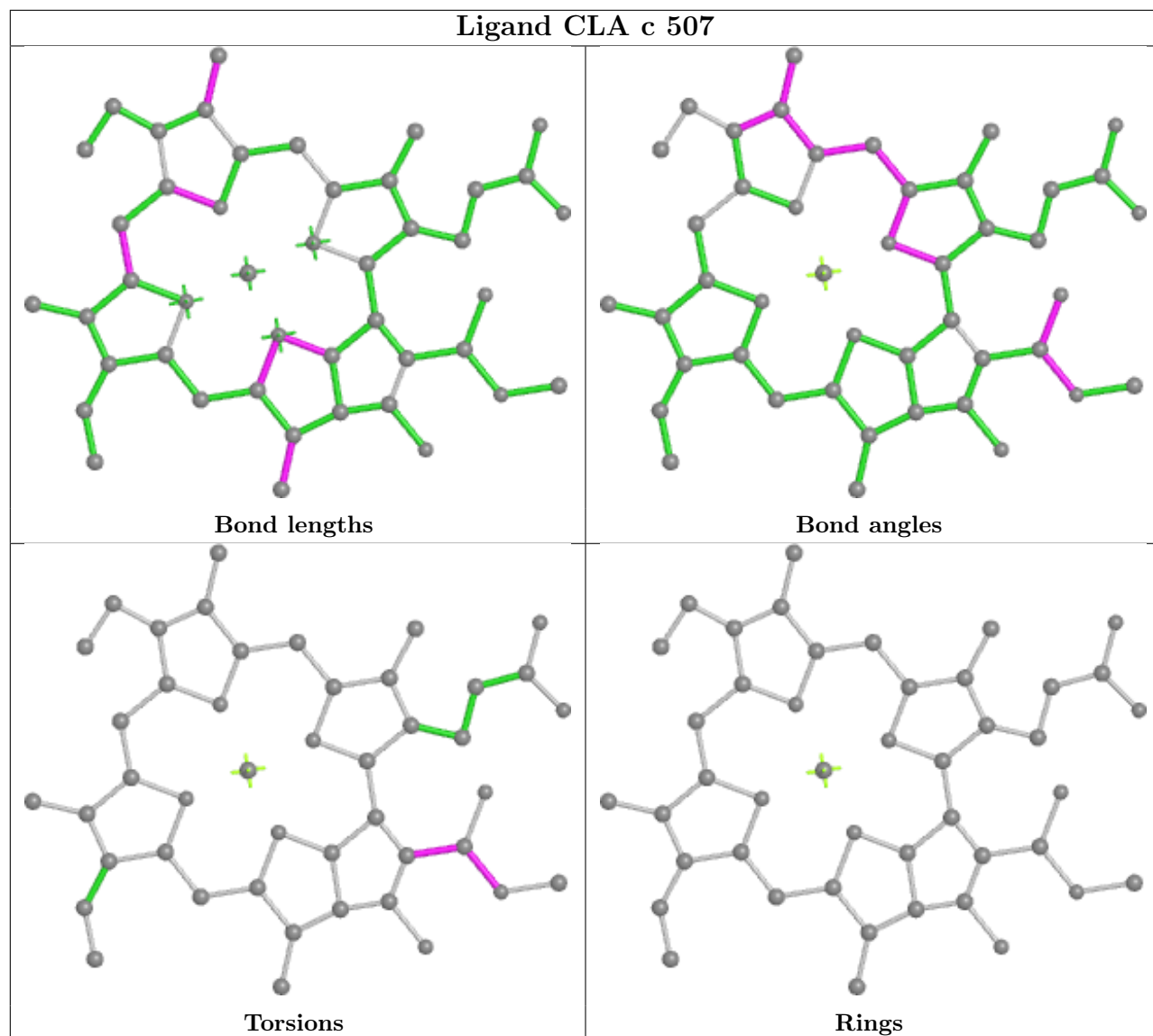


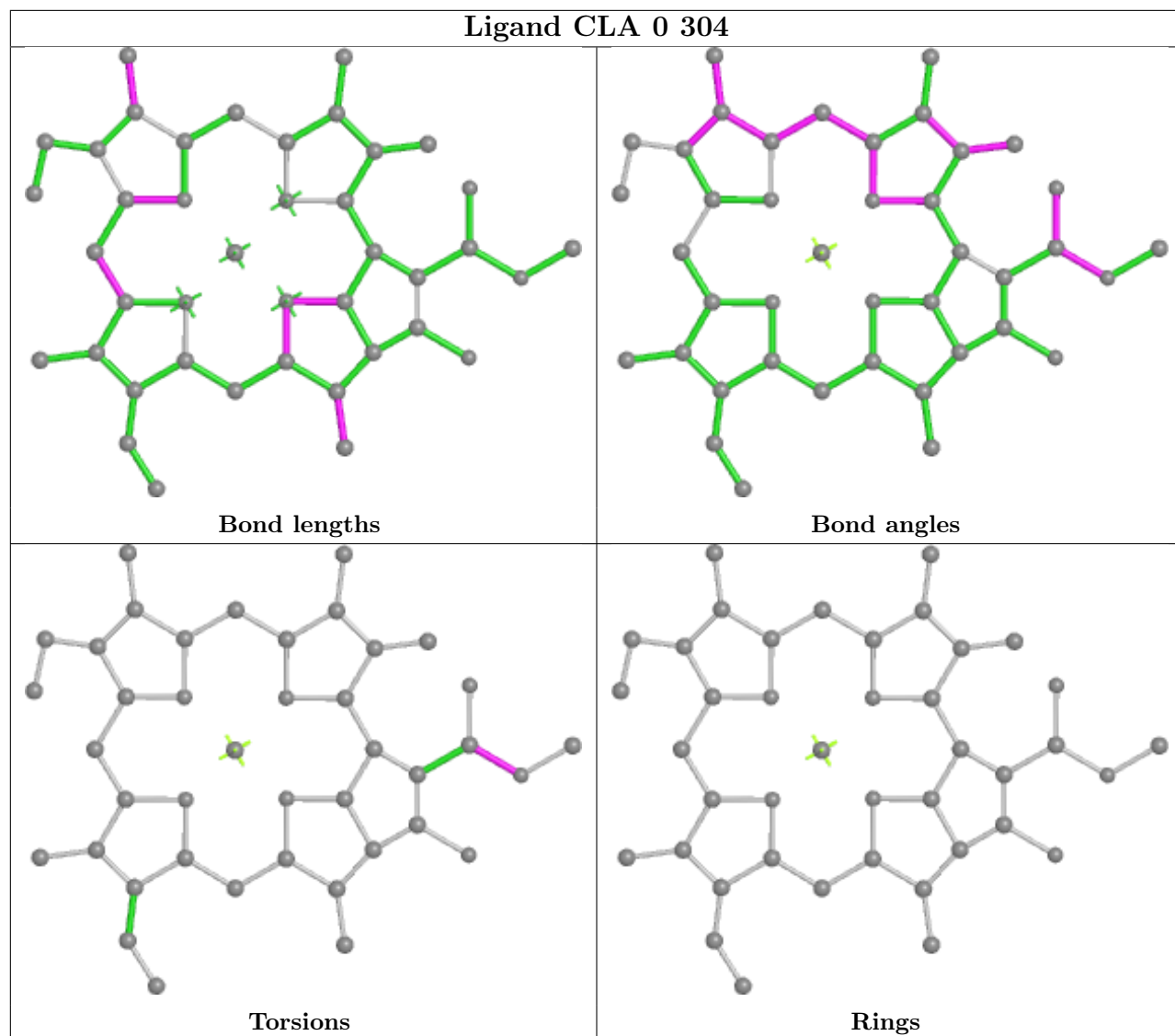


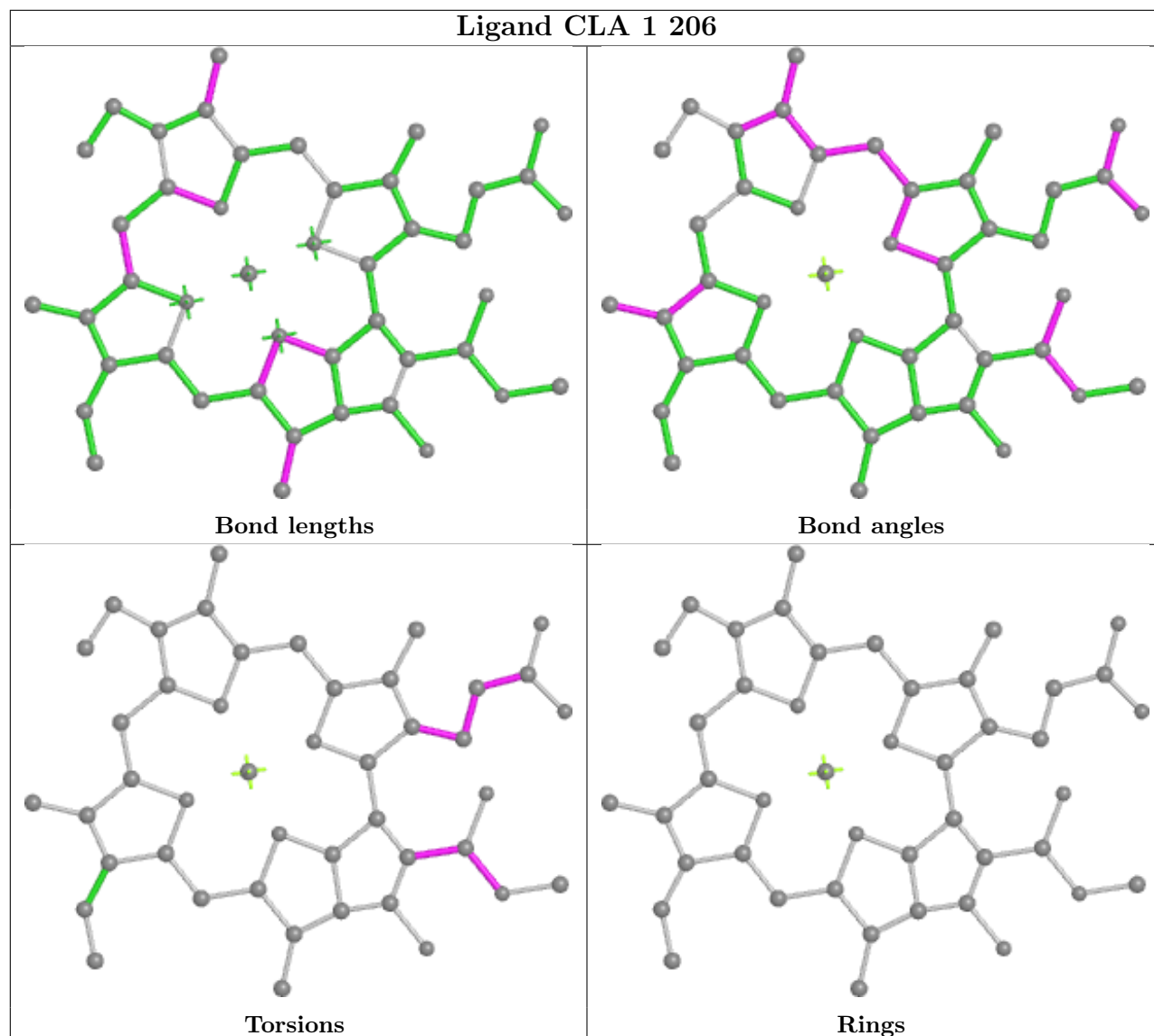


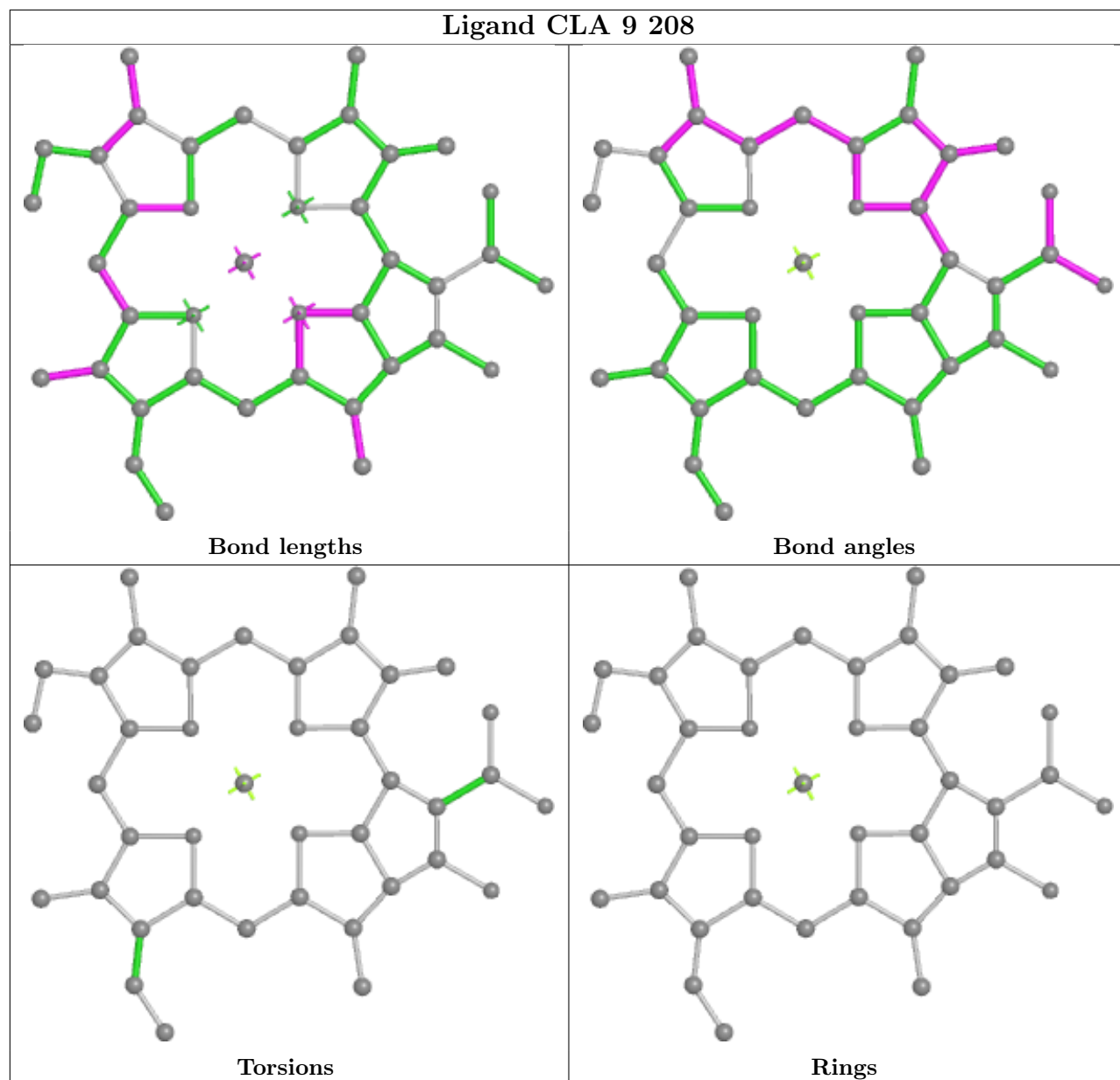


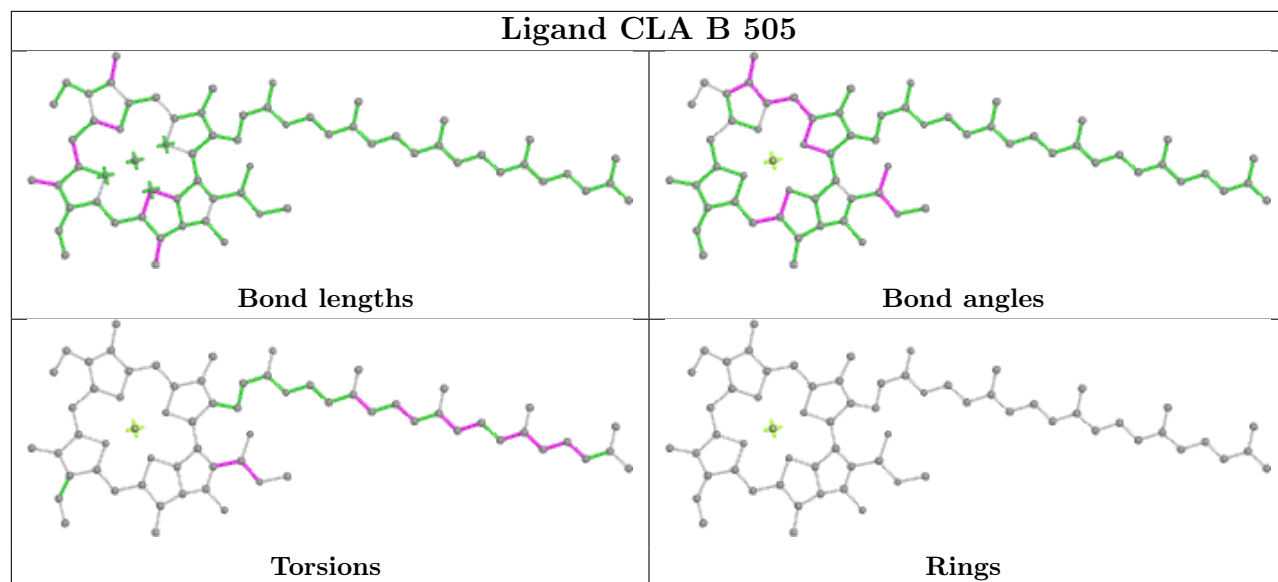




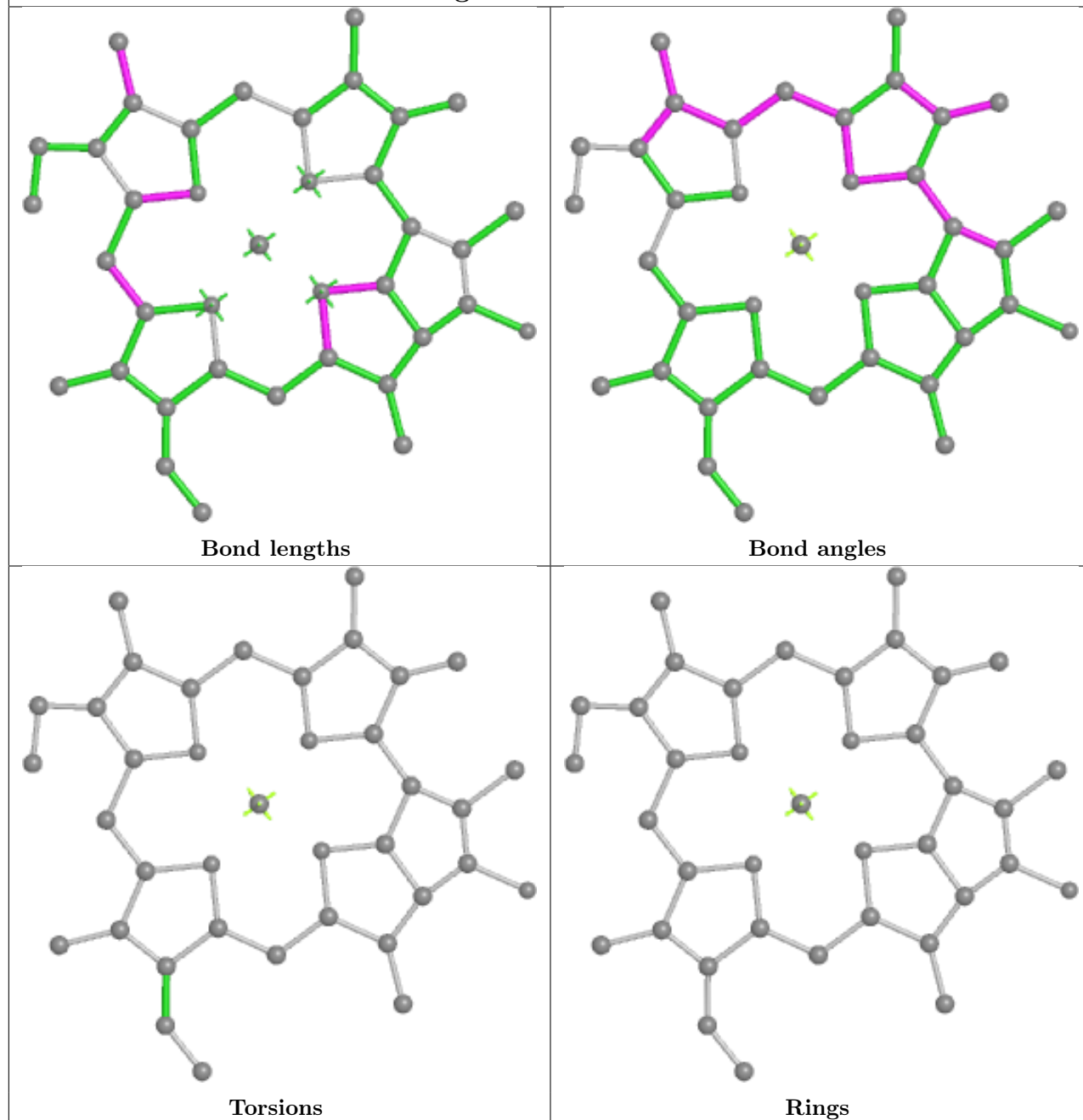


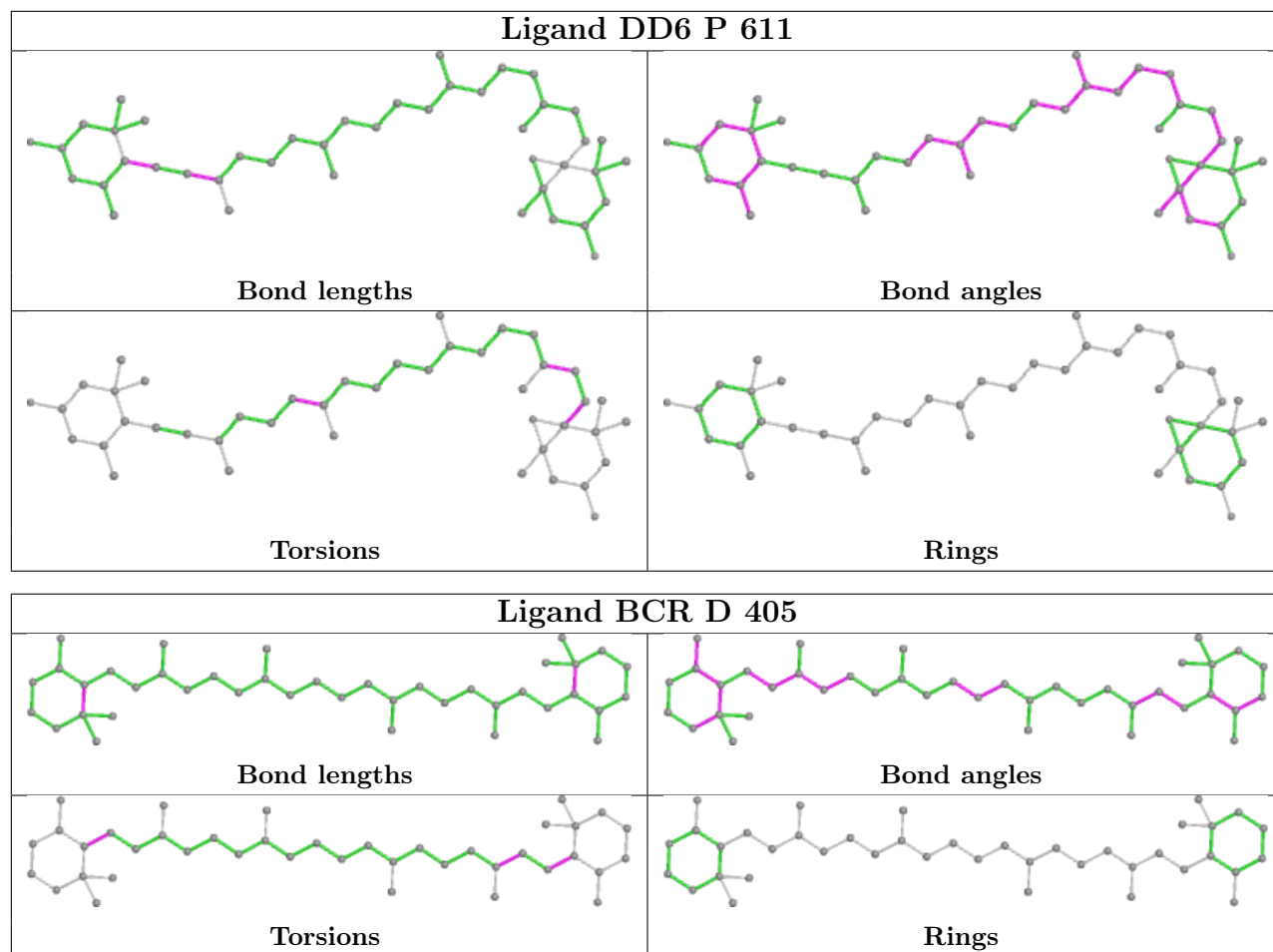


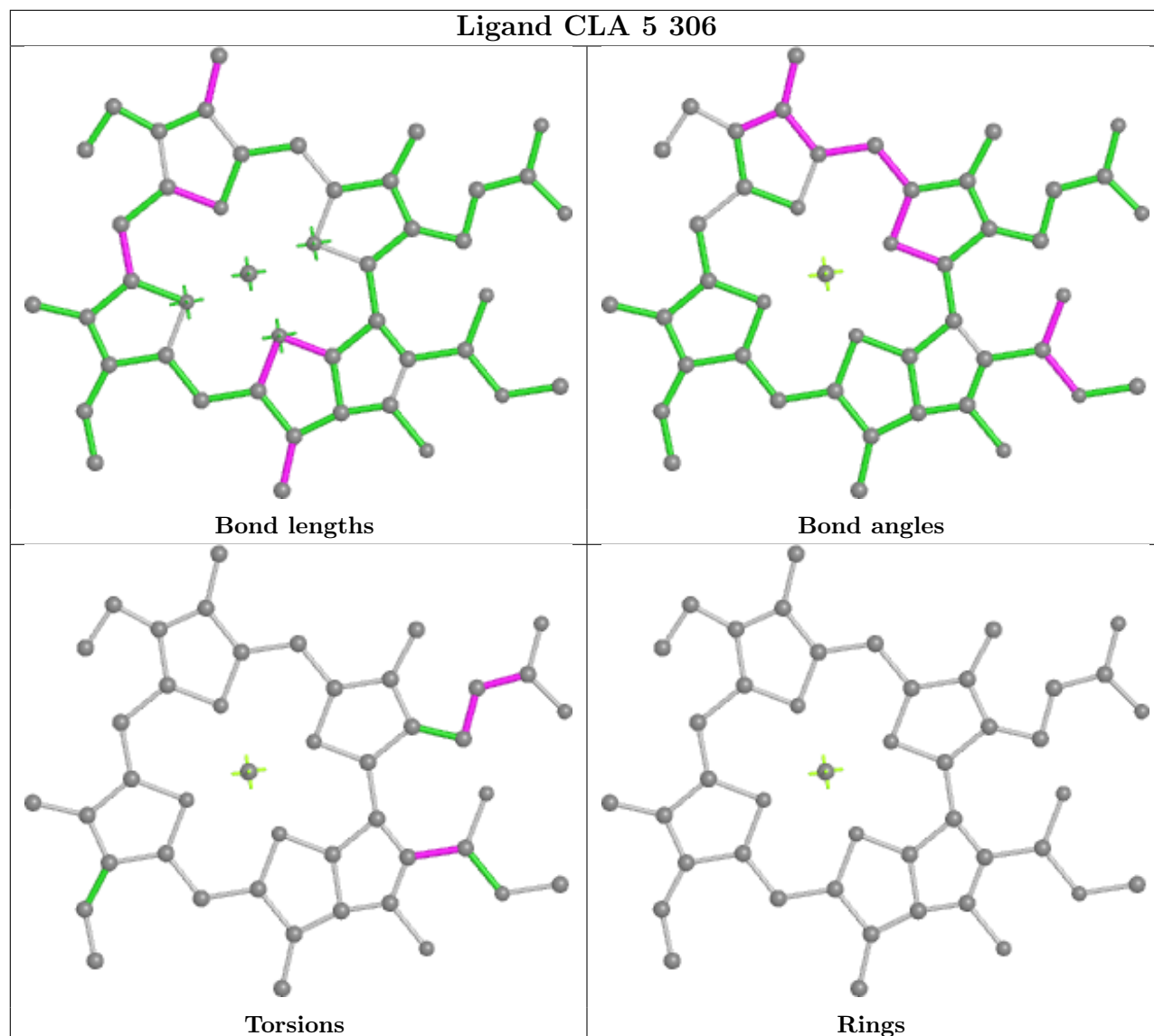




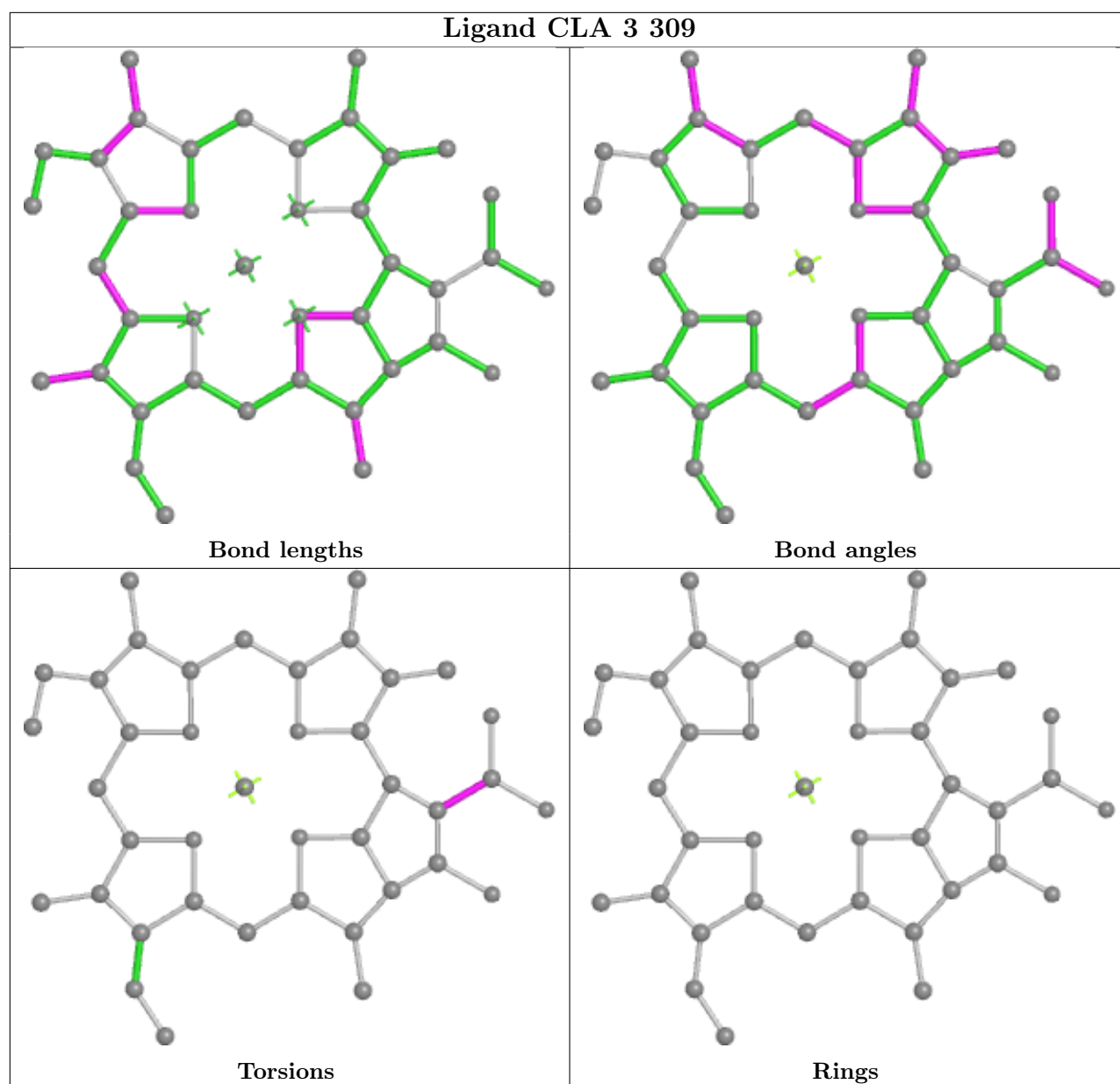
## Ligand CLA 7 313











## 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.

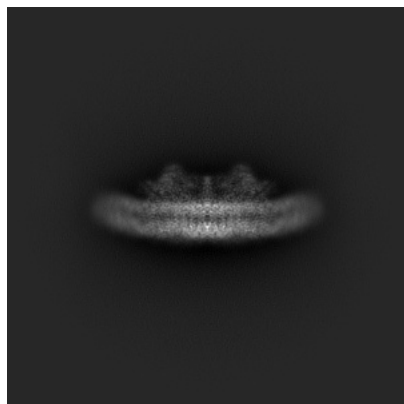
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-35987. These allow visual inspection of the internal detail of the map and identification of artifacts.

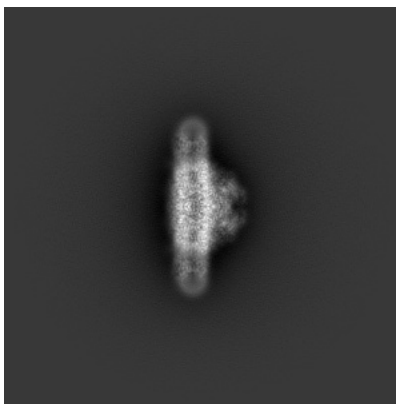
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

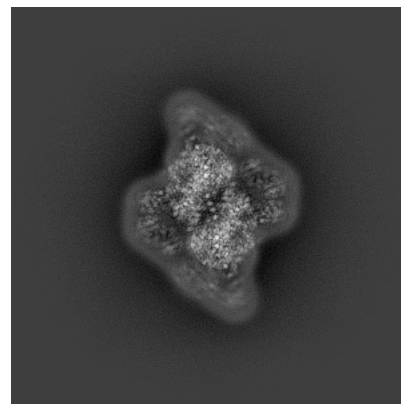
#### 6.1.1 Primary map



X

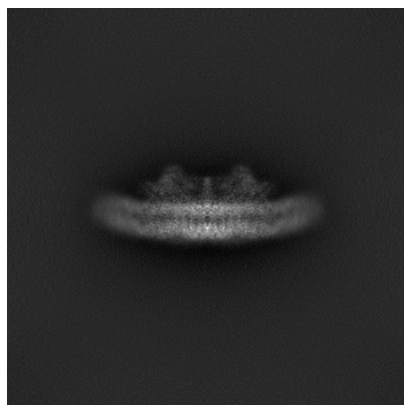


Y

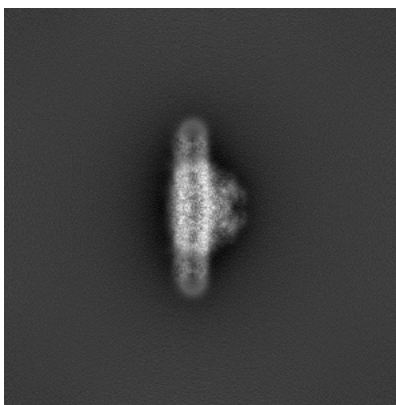


Z

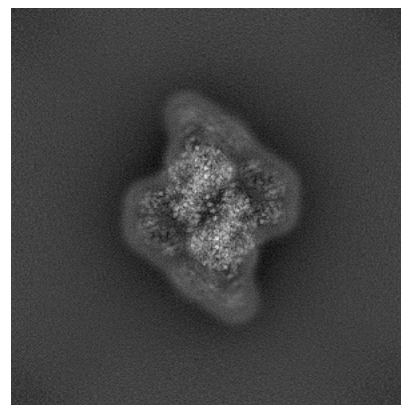
#### 6.1.2 Raw map



X



Y

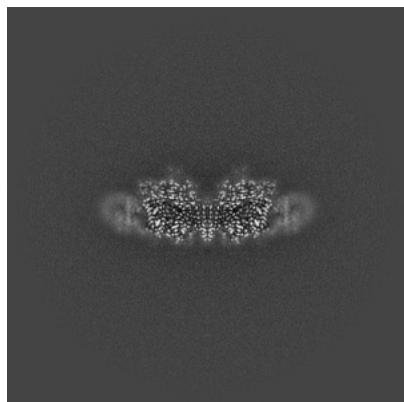


Z

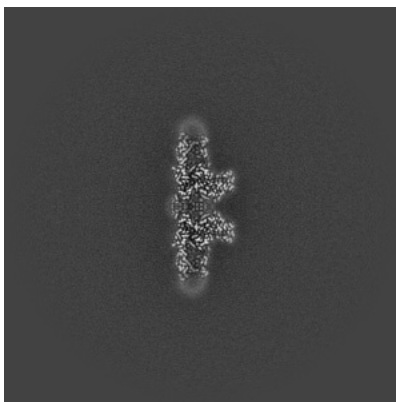
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

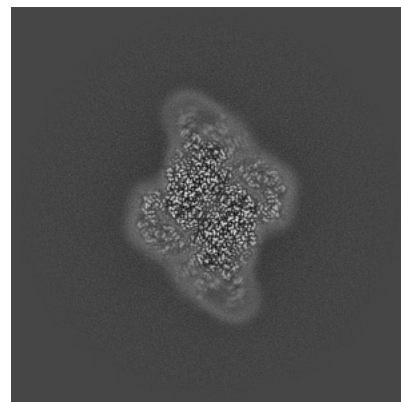
### 6.2.1 Primary map



X Index: 256

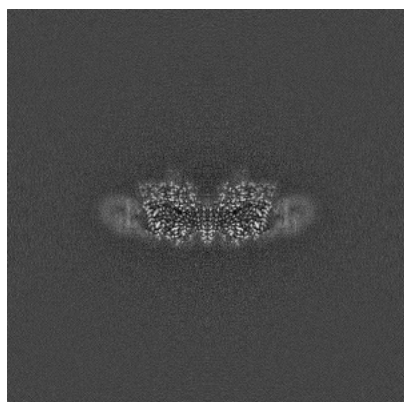


Y Index: 256

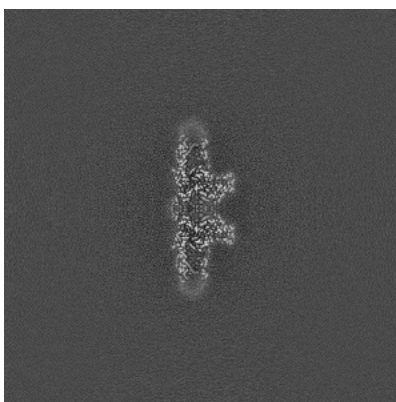


Z Index: 256

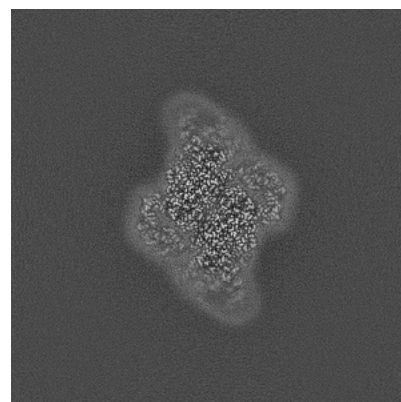
### 6.2.2 Raw map



X Index: 256



Y Index: 256

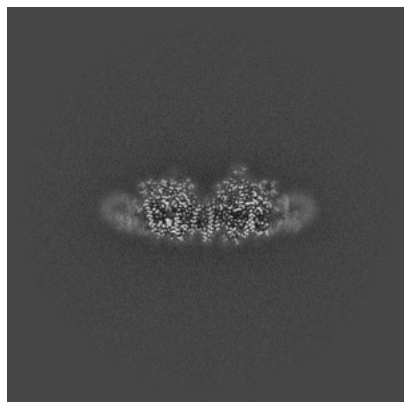


Z Index: 256

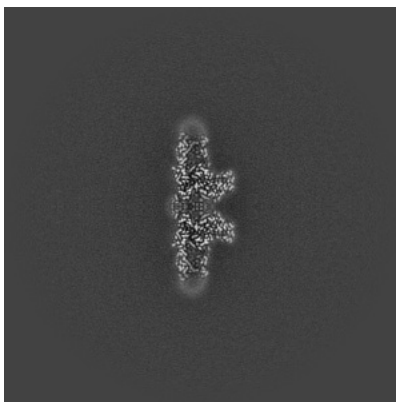
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

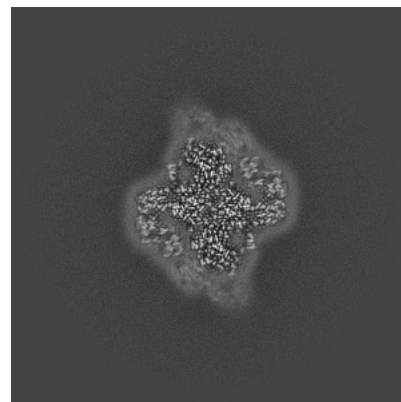
### 6.3.1 Primary map



X Index: 254

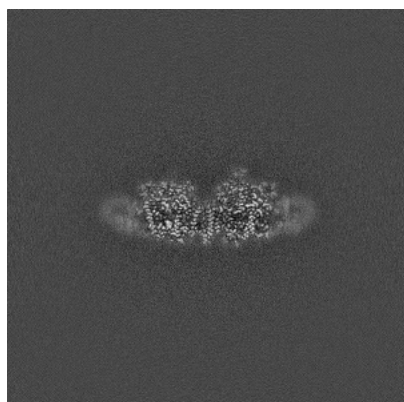


Y Index: 256

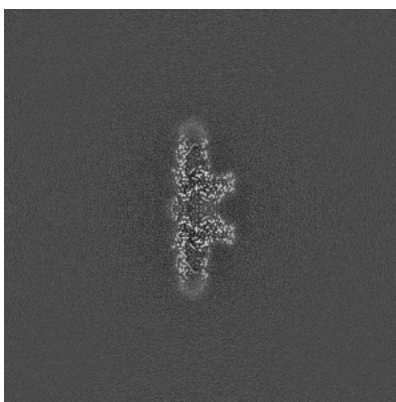


Z Index: 230

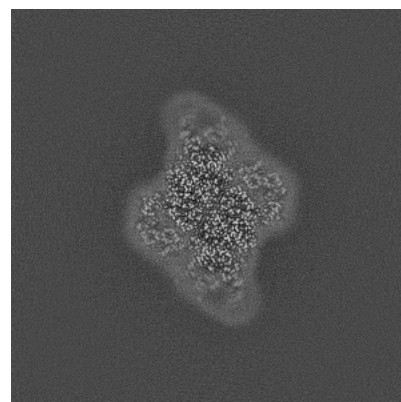
### 6.3.2 Raw map



X Index: 254



Y Index: 256

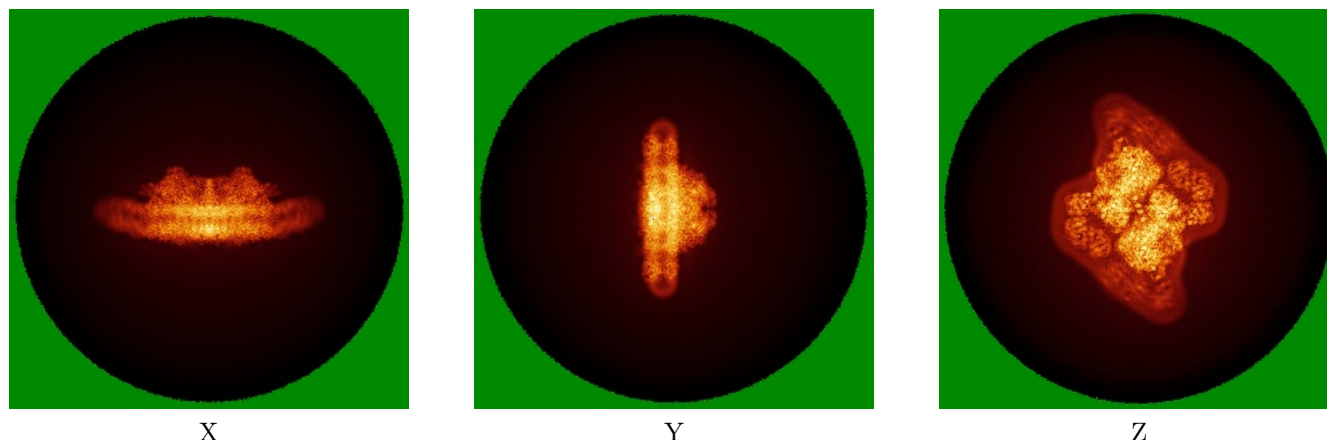


Z Index: 255

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

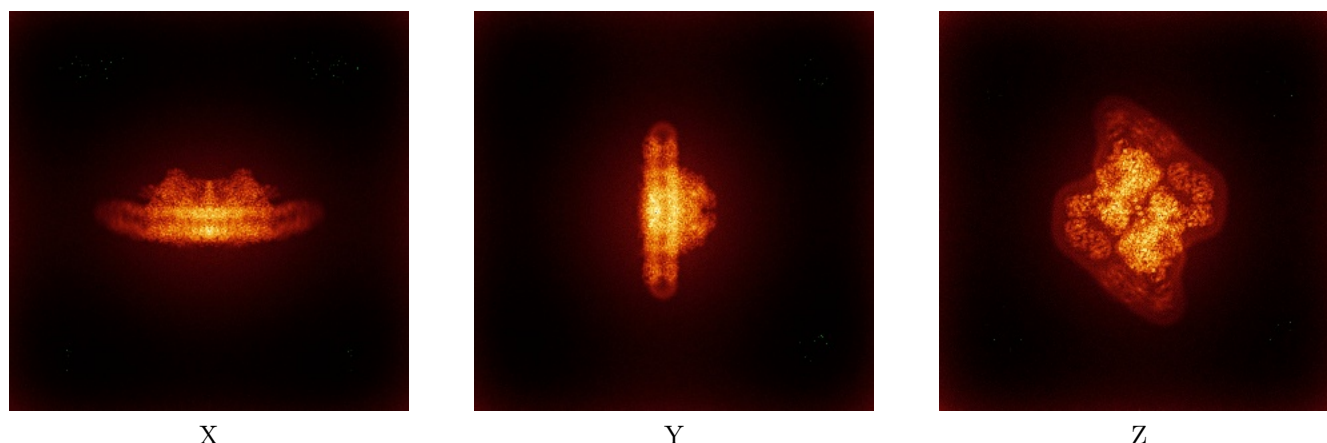


X

Y

Z

### 6.4.2 Raw map



X

Y

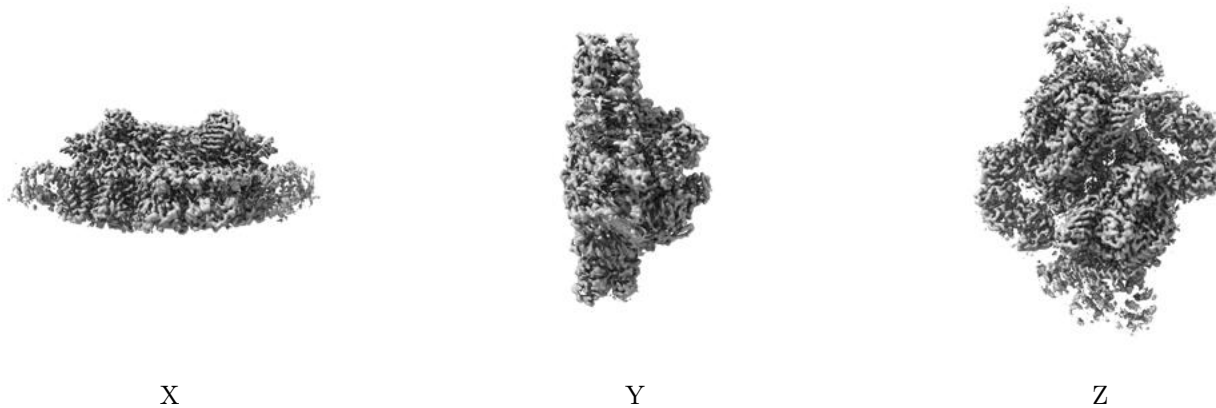
Z

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



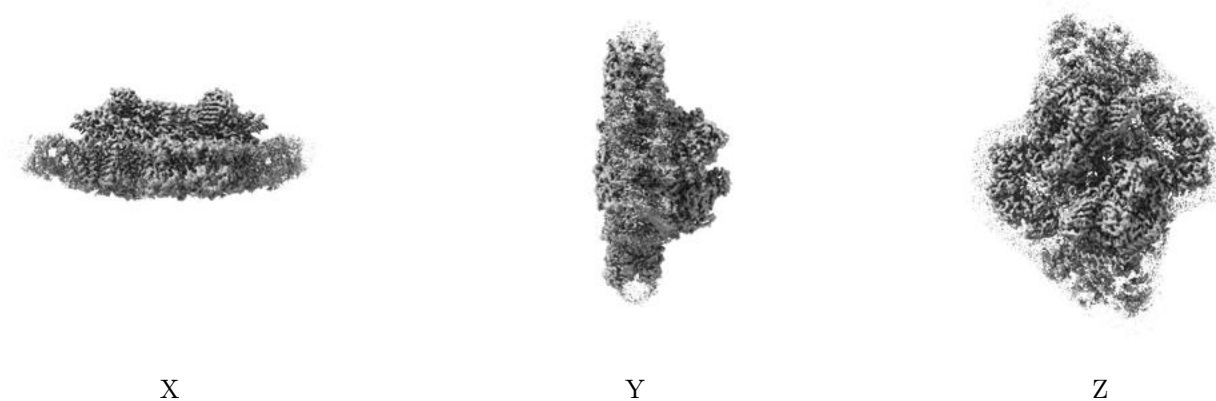
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.158. 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.

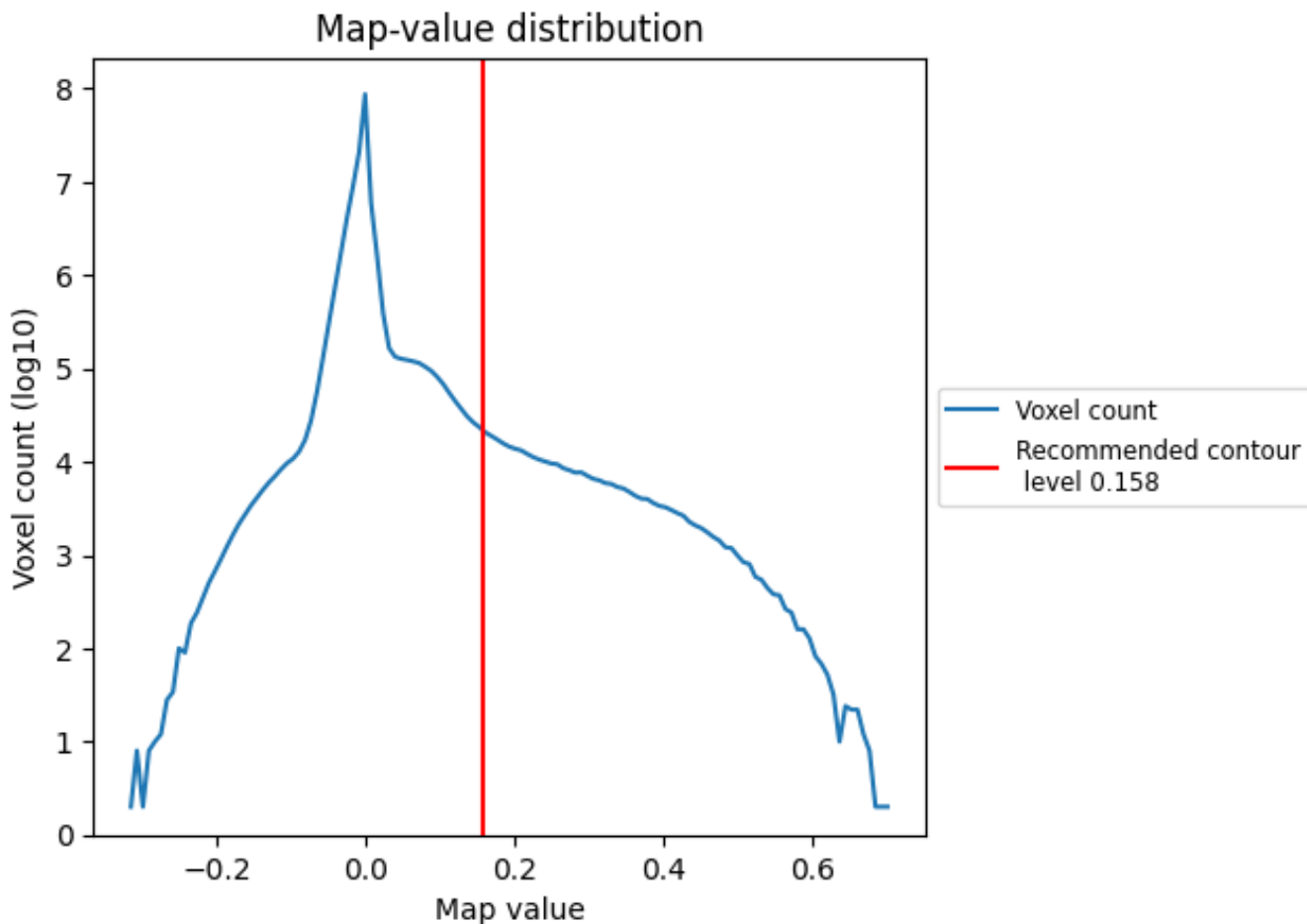
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

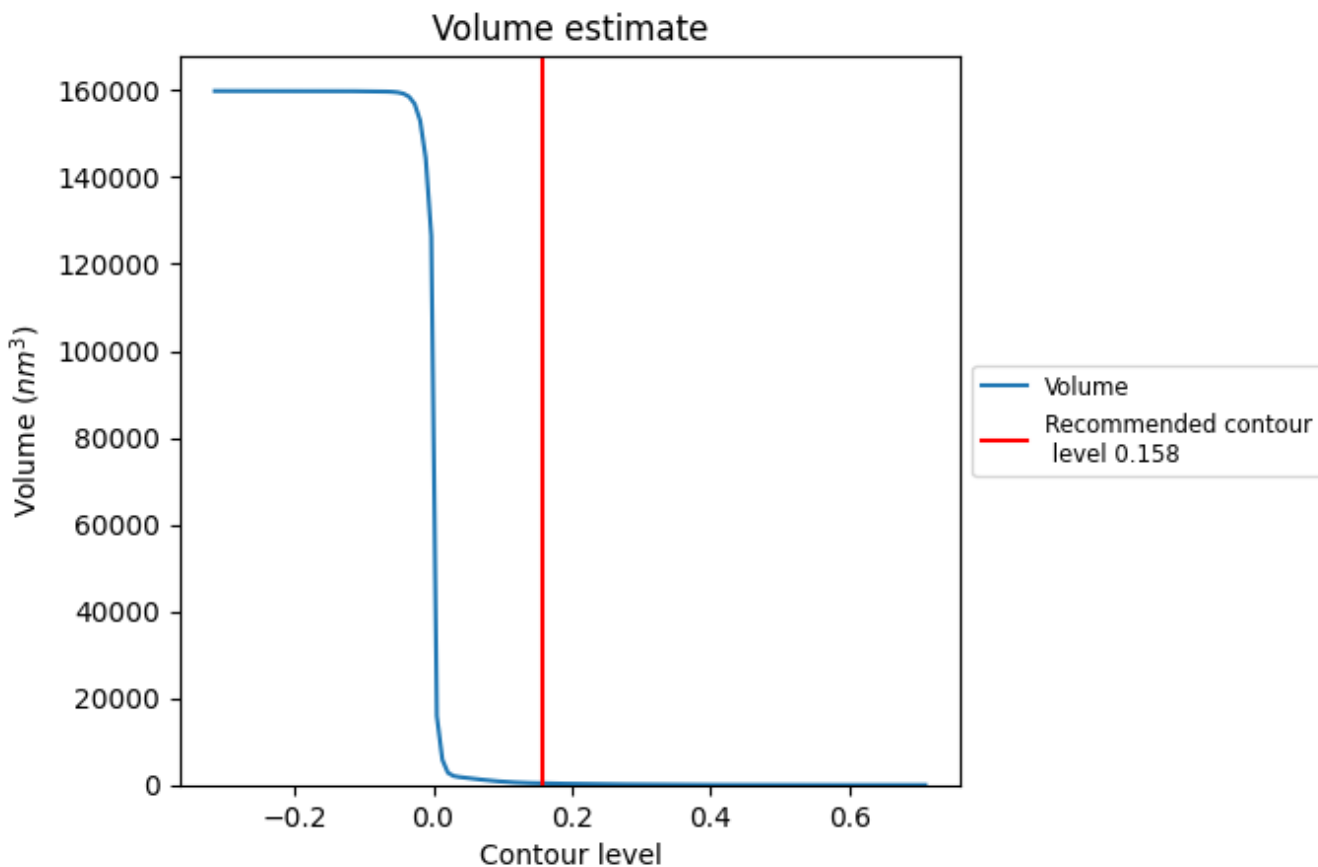
This section contains the results of statistical analysis of the map.

### 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](#)

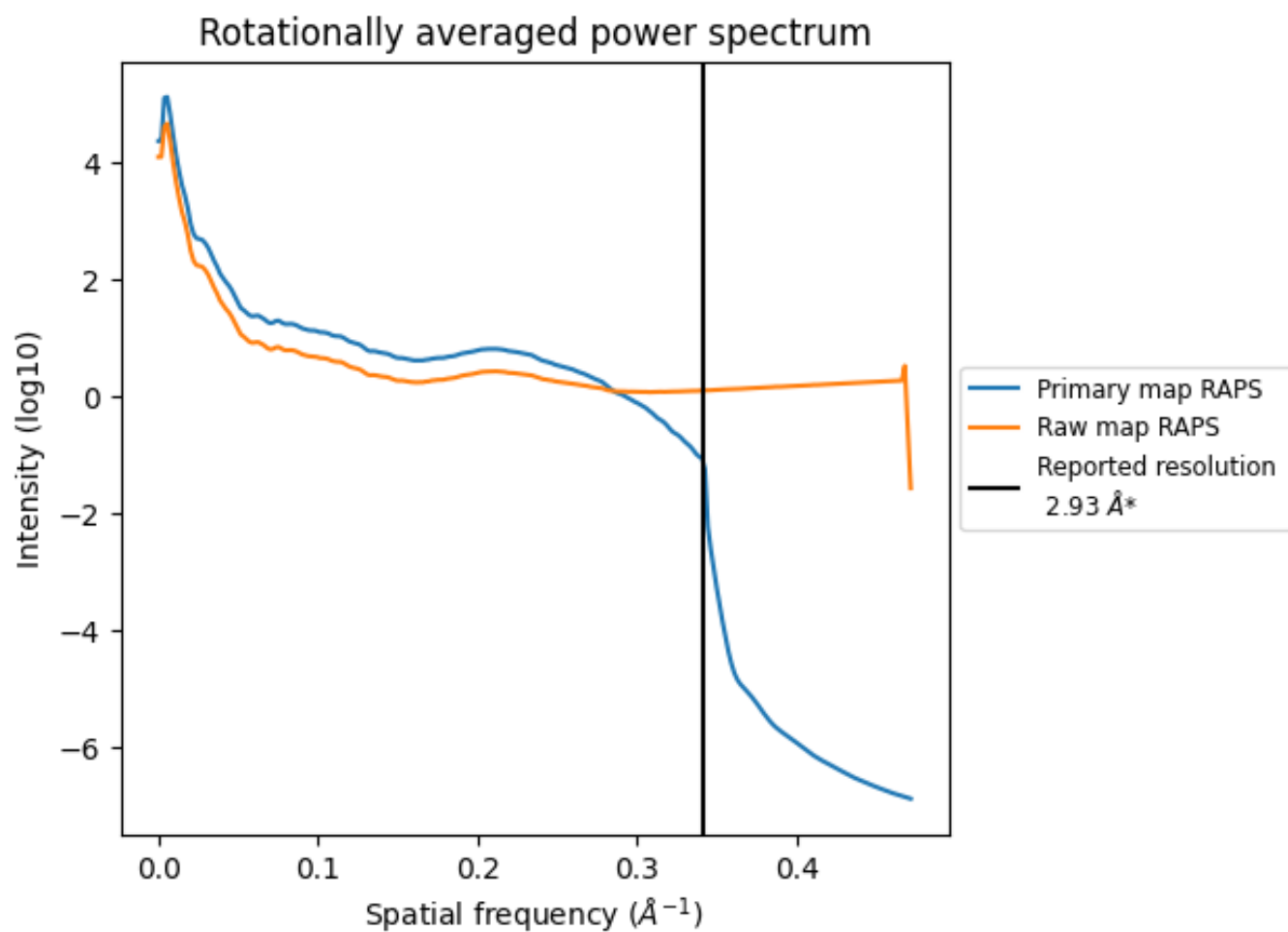


The volume at the recommended contour level is 376 nm<sup>3</sup>; this corresponds to an approximate mass of 339 kDa.

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

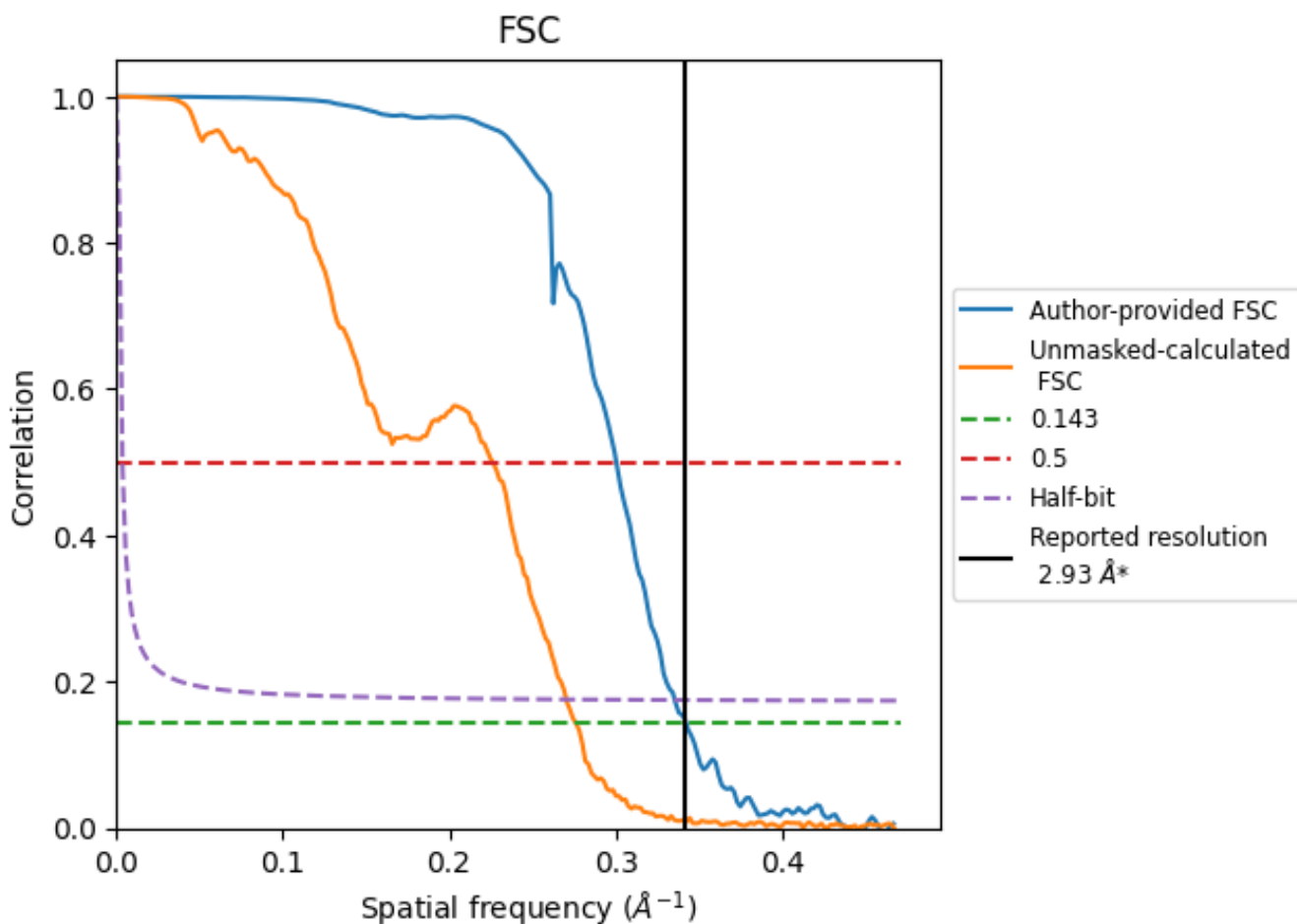


\*Reported resolution corresponds to spatial frequency of 0.341 Å<sup>-1</sup>

## 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  $0.341 \text{\AA}^{-1}$

## 8.2 Resolution estimates [i](#)

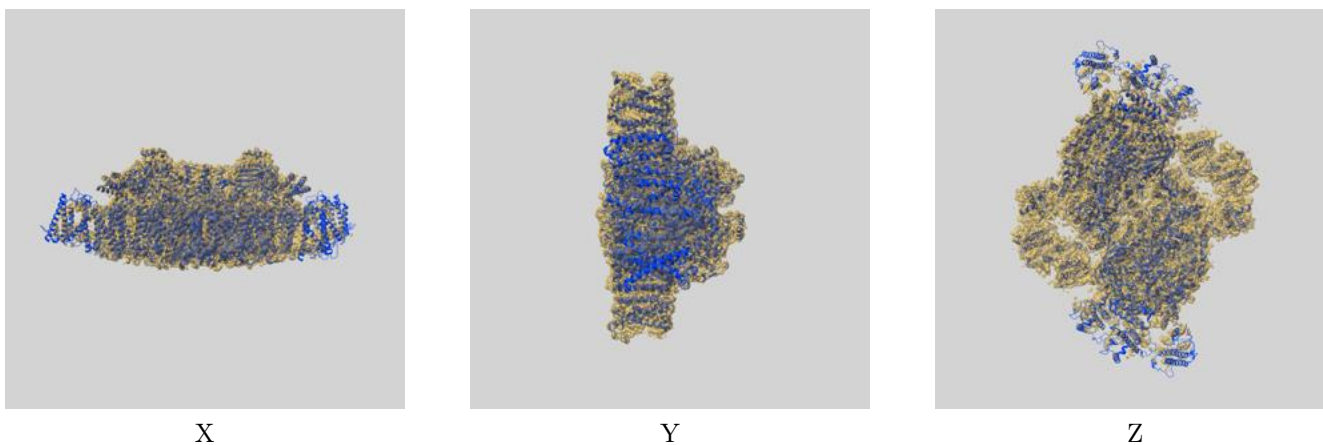
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.93	-	-
Author-provided FSC curve	2.92	3.33	2.98
Unmasked-calculated*	3.62	4.42	3.70

\*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 3.62 differs from the reported value 2.93 by more than 10 %

## 9 Map-model fit [i](#)

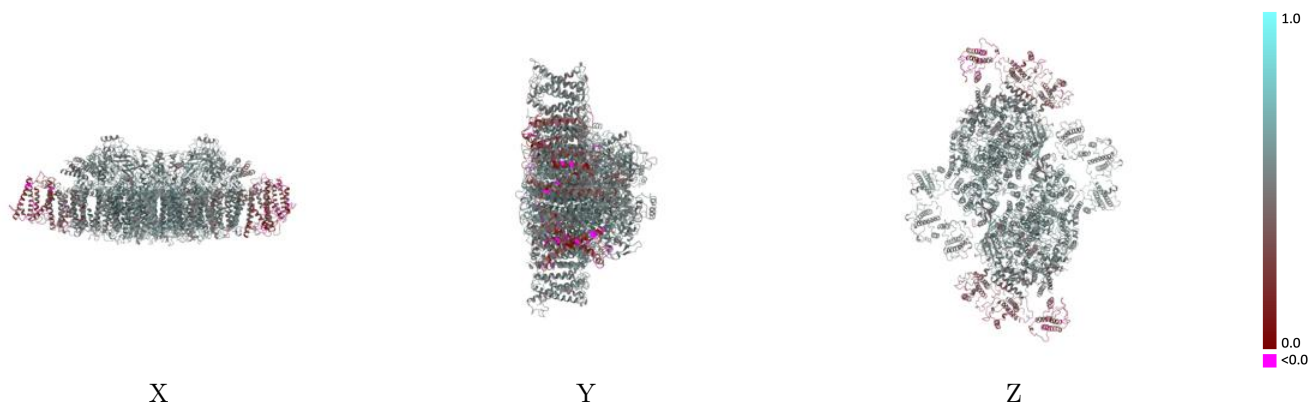
This section contains information regarding the fit between EMDB map EMD-35987 and PDB model 8J5K. Per-residue inclusion information can be found in section 3 on page 39.

### 9.1 Map-model overlay [i](#)



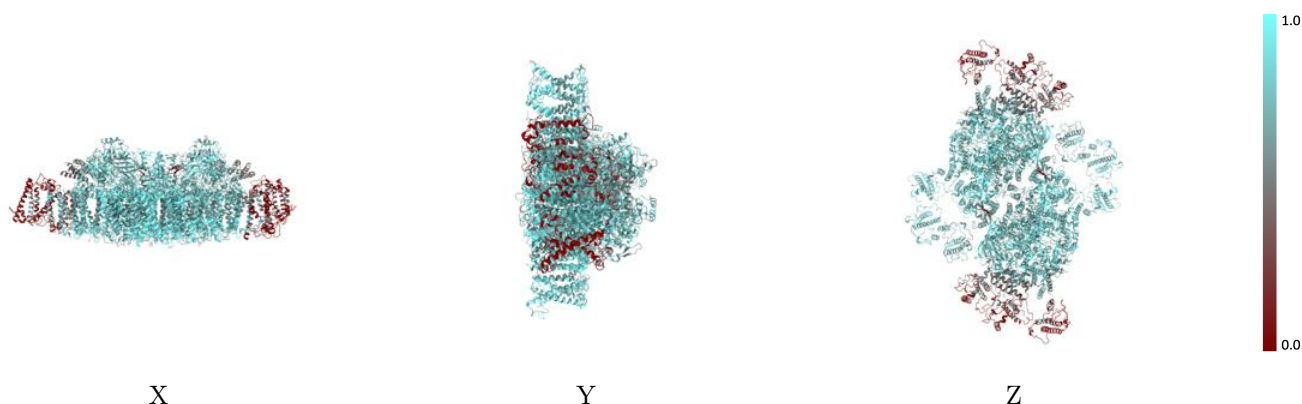
The images above show the 3D surface view of the map at the recommended contour level 0.158 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



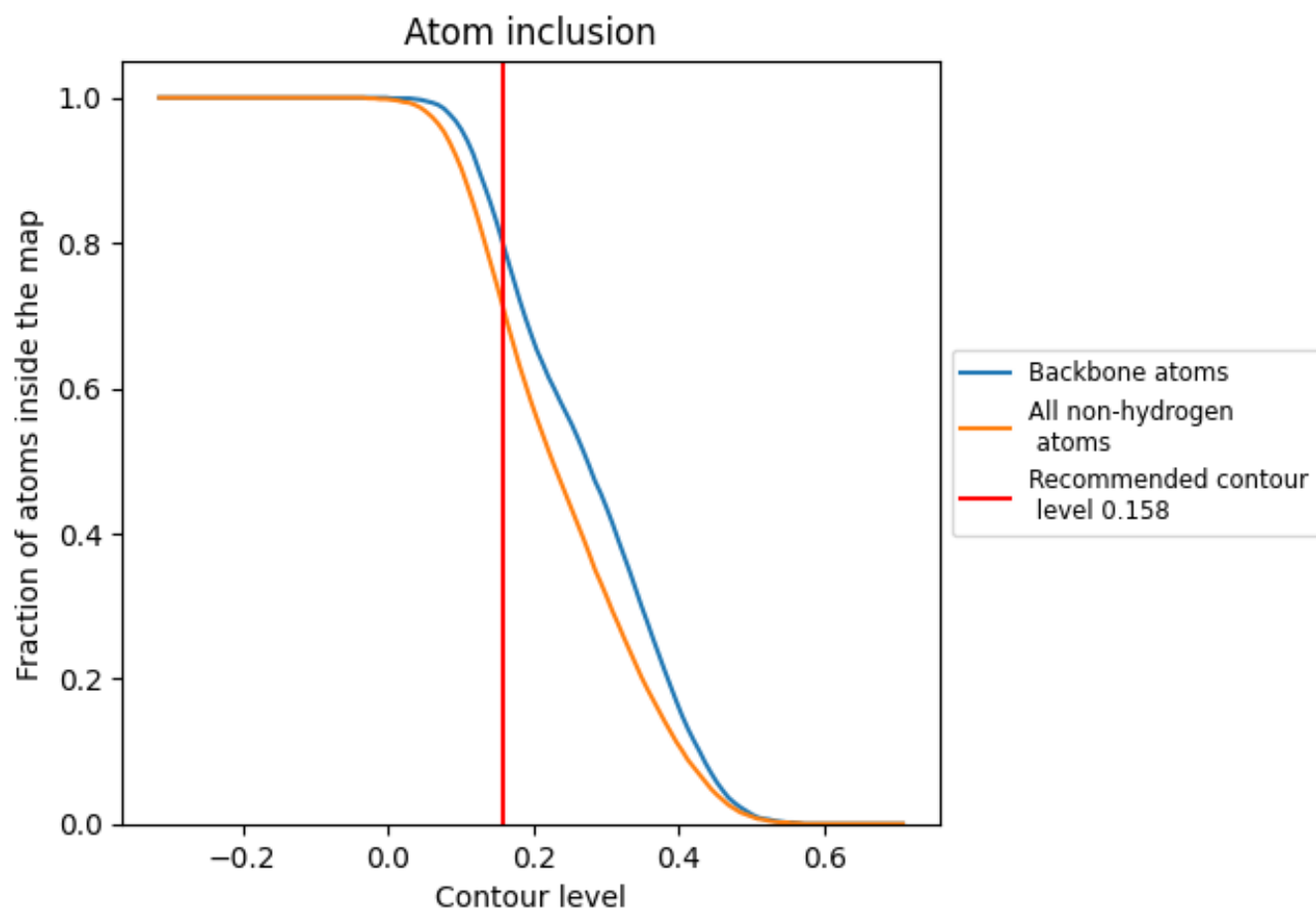
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.158).







































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 71% 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 (0.158) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7130	 0.5040
0	 0.7910	 0.5330
1	 0.7530	 0.5000
2	 0.6890	 0.4730
3	 0.2070	 0.2790
4	 0.1270	 0.1640
5	 0.7910	 0.5340
6	 0.7530	 0.5000
7	 0.6880	 0.4740
8	 0.2140	 0.2820
9	 0.1320	 0.1850
A	 0.8080	 0.5680
B	 0.8430	 0.5670
C	 0.8320	 0.5600
D	 0.8480	 0.5720
E	 0.7890	 0.5110
F	 0.8080	 0.5150
H	 0.8140	 0.5580
I	 0.8520	 0.5500
J	 0.6470	 0.5260
K	 0.7820	 0.5170
L	 0.8580	 0.5820
M	 0.7210	 0.5590
N	 0.7000	 0.4400
O	 0.7150	 0.5260
P	 0.2690	 0.2840
Q	 0.5210	 0.4800
T	 0.7490	 0.5580
U	 0.7670	 0.5160
V	 0.7710	 0.5320
W	 0.7160	 0.4810
X	 0.7790	 0.5410
Y	 0.6610	 0.4860
Z	 0.7290	 0.4790
a	 0.8200	 0.5700



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Chain	Atom inclusion	Q-score
b	 0.8480	 0.5690
c	 0.8310	 0.5600
d	 0.8460	 0.5730
e	 0.7840	 0.5110
f	 0.8080	 0.5160
h	 0.8090	 0.5590
i	 0.8440	 0.5450
j	 0.6400	 0.5240
k	 0.7820	 0.5120
l	 0.8510	 0.5740
m	 0.7260	 0.5600
n	 0.7130	 0.4310
o	 0.7190	 0.5250
p	 0.2710	 0.2870
q	 0.5150	 0.4750
t	 0.7530	 0.5600
u	 0.7590	 0.5170
v	 0.7800	 0.5300
w	 0.7180	 0.4830
x	 0.7880	 0.5390
y	 0.6580	 0.4930
z	 0.7310	 0.4820