



## Full wwPDB EM Validation Report ⓘ

Nov 14, 2022 – 01:27 PM JST

PDB ID : 6J3Z  
EMDB ID : EMD-9776  
Title : Structure of C2S1M1-type PSII-FCPII supercomplex from diatom  
Authors : Nagao, R.; Kato, K.; Shen, J.R.; Miyazaki, N.; Akita, F.  
Deposited on : 2019-01-07  
Resolution : 3.60 Å(reported)  
Based on initial models : 3JCU, 3WU2

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:

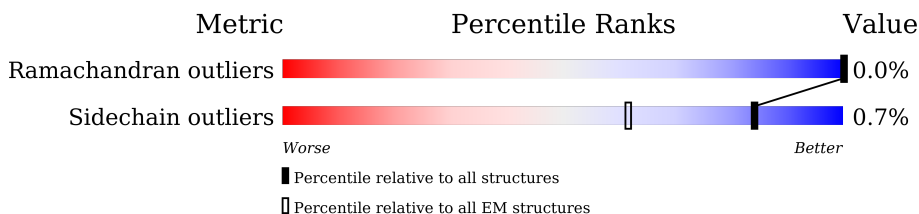
EMDB validation analysis : 0.0.1.dev43  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.60 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	344	
1	a	344	
2	B	509	
2	b	509	
3	C	471	
3	c	471	
4	D	351	
4	d	351	
5	E	84	

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Mol	Chain	Length	Quality of chain
5	e	84	89% 11%
6	F	43	65% 35%
6	f	43	65% 35%
7	H	67	97% ..
7	h	67	97% ..
8	I	38	92% 8%
8	i	38	92% 8%
9	J	39	87% 13%
9	j	39	5% 87% 13%
10	K	44	5% 80% 5% 16%
10	k	44	5% 80% 5% 16%
11	L	38	5% 100%
11	l	38	5% 100%
12	M	131	32% 68%
12	m	131	32% 68%
13	O	248	5% 98% ..
13	o	248	8% 98% ..
14	T	31	94% ..
14	t	31	10% 94% ..
15	U	93	100%
15	u	93	100%
16	V	137	99% ..
16	v	137	99% ..
17	Y	34	6% 100%
17	y	34	18% 100%

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Mol	Chain	Length	Quality of chain
18	X	38	8% 97%
18	x	38	8% 97%
19	Z	61	97%
19	z	61	97%
20	Q	155	7% 88% 12%
20	q	155	41% 88% 12%
21	W	72	6% 71% 28%
21	w	72	12% 71% 28%
22	0	31	100%
22	5	31	100%
23	1	30	100%
23	6	30	100%
24	2	10	100%
24	7	10	100%
25	11	207	84% 15%
25	12	207	84% 15%
25	13	207	84% 15%
25	14	207	84% 15%
25	15	207	8% 85% 15%
25	16	207	84% 15%
25	17	207	84% 15%
25	18	207	8% 84% 15%
26	19	215	98%
27	20	143	98%
28	21	155	17% 100%



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
30	CLA	11	301	X	-	-	-
30	CLA	11	302	X	-	-	-
30	CLA	11	303	X	-	-	-
30	CLA	11	304	X	-	-	-
30	CLA	11	305	X	-	-	-
30	CLA	11	306	X	-	-	-
30	CLA	11	307	X	-	-	-
30	CLA	11	309	X	-	-	-
30	CLA	11	315	X	-	-	-
30	CLA	12	303	X	-	-	-
30	CLA	12	305	X	-	-	-
30	CLA	12	306	X	-	-	-
30	CLA	12	307	X	-	-	-
30	CLA	12	308	X	-	-	-
30	CLA	12	309	X	-	-	-
30	CLA	12	310	X	-	-	-
30	CLA	12	311	X	-	-	-
30	CLA	12	312	X	-	-	-
30	CLA	12	314	X	-	-	-
30	CLA	13	302	X	-	-	-
30	CLA	13	303	X	-	-	-
30	CLA	13	304	X	-	-	-
30	CLA	13	305	X	-	-	-
30	CLA	13	306	X	-	-	-
30	CLA	13	307	X	-	-	-
30	CLA	13	308	X	-	-	-
30	CLA	13	310	X	-	-	-
30	CLA	14	302	X	-	-	-
30	CLA	14	303	X	-	-	-
30	CLA	14	304	X	-	-	-
30	CLA	14	305	X	-	-	-
30	CLA	14	306	X	-	-	-
30	CLA	14	307	X	-	-	-
30	CLA	14	308	X	-	-	-
30	CLA	14	309	X	-	-	-
30	CLA	14	311	X	-	-	-
30	CLA	15	301	X	-	-	-
30	CLA	15	302	X	-	-	-
30	CLA	15	303	X	-	-	-
30	CLA	15	305	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
30	CLA	15	306	X	-	-	-
30	CLA	15	307	X	-	-	-
30	CLA	15	308	X	-	-	-
30	CLA	15	309	X	-	-	-
30	CLA	16	301	X	-	-	-
30	CLA	16	302	X	-	-	-
30	CLA	16	303	X	-	-	-
30	CLA	16	304	X	-	-	-
30	CLA	16	306	X	-	-	-
30	CLA	16	307	X	-	-	-
30	CLA	16	309	X	-	-	-
30	CLA	17	301	X	-	-	-
30	CLA	17	303	X	-	-	-
30	CLA	17	305	X	-	-	-
30	CLA	17	307	X	-	-	-
30	CLA	17	308	X	-	-	-
30	CLA	17	309	X	-	-	-
30	CLA	17	310	X	-	-	-
30	CLA	18	301	X	-	-	-
30	CLA	18	303	X	-	-	-
30	CLA	18	304	X	-	-	-
30	CLA	18	305	X	-	-	-
30	CLA	18	307	X	-	-	-
30	CLA	18	308	X	-	-	-
30	CLA	18	309	X	-	-	-
30	CLA	18	310	X	-	-	-
30	CLA	18	311	X	-	-	-
30	CLA	18	312	X	-	-	-
30	CLA	19	302	X	-	-	-
30	CLA	19	303	X	-	-	-
30	CLA	19	304	X	-	-	-
30	CLA	19	305	X	-	-	-
30	CLA	19	306	X	-	-	-
30	CLA	19	307	X	-	-	-
30	CLA	19	308	X	-	-	-
30	CLA	19	309	X	-	-	-
30	CLA	20	203	X	-	-	-
30	CLA	20	204	X	-	-	-
30	CLA	20	206	X	-	-	-
30	CLA	20	207	X	-	-	-
30	CLA	20	209	X	-	-	-
30	CLA	21	303	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
30	CLA	21	304	X	-	-	-
30	CLA	21	305	X	-	-	-
30	CLA	21	306	X	-	-	-
30	CLA	21	307	X	-	-	-
30	CLA	21	308	X	-	-	-
30	CLA	21	309	X	-	-	-
30	CLA	A	402	X	-	-	-
30	CLA	A	404	X	-	-	-
30	CLA	B	601	X	-	-	-
30	CLA	B	602	X	-	-	-
30	CLA	B	603	X	-	-	-
30	CLA	B	604	X	-	-	-
30	CLA	B	605	X	-	-	-
30	CLA	B	606	X	-	-	-
30	CLA	B	607	X	-	-	-
30	CLA	B	608	X	-	-	-
30	CLA	B	609	X	-	-	-
30	CLA	B	610	X	-	-	-
30	CLA	B	611	X	-	-	-
30	CLA	B	612	X	-	-	-
30	CLA	B	613	X	-	-	-
30	CLA	B	614	X	-	-	-
30	CLA	B	615	X	-	-	-
30	CLA	B	623	X	-	-	-
30	CLA	C	502	X	-	-	-
30	CLA	C	503	X	-	-	-
30	CLA	C	504	X	-	-	-
30	CLA	C	505	X	-	-	-
30	CLA	C	506	X	-	-	-
30	CLA	C	507	X	-	-	-
30	CLA	C	508	X	-	-	-
30	CLA	C	509	X	-	-	-
30	CLA	C	510	X	-	-	-
30	CLA	C	511	X	-	-	-
30	CLA	C	512	X	-	-	-
30	CLA	C	513	X	-	-	-
30	CLA	C	514	X	-	-	-
30	CLA	C	520	X	-	-	-
30	CLA	D	401	X	-	-	-
30	CLA	D	402	X	-	-	-
30	CLA	D	405	X	-	-	-
30	CLA	D	406	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
30	CLA	M	101	X	-	-	-
30	CLA	W	102	X	-	-	-
30	CLA	Z	102	X	-	-	-
30	CLA	a	402	X	-	-	-
30	CLA	a	403	X	-	-	-
30	CLA	b	601	X	-	-	-
30	CLA	b	602	X	-	-	-
30	CLA	b	603	X	-	-	-
30	CLA	b	604	X	-	-	-
30	CLA	b	605	X	-	-	-
30	CLA	b	606	X	-	-	-
30	CLA	b	607	X	-	-	-
30	CLA	b	608	X	-	-	-
30	CLA	b	609	X	-	-	-
30	CLA	b	610	X	-	-	-
30	CLA	b	611	X	-	-	-
30	CLA	b	612	X	-	-	-
30	CLA	b	613	X	-	-	-
30	CLA	b	614	X	-	-	-
30	CLA	b	615	X	-	-	-
30	CLA	b	622	X	-	-	-
30	CLA	c	502	X	-	-	-
30	CLA	c	503	X	-	-	-
30	CLA	c	504	X	-	-	-
30	CLA	c	505	X	-	-	-
30	CLA	c	506	X	-	-	-
30	CLA	c	507	X	-	-	-
30	CLA	c	508	X	-	-	-
30	CLA	c	509	X	-	-	-
30	CLA	c	510	X	-	-	-
30	CLA	c	511	X	-	-	-
30	CLA	c	512	X	-	-	-
30	CLA	c	513	X	-	-	-
30	CLA	c	514	X	-	-	-
30	CLA	d	401	X	-	-	-
30	CLA	d	402	X	-	-	-
30	CLA	d	406	X	-	-	-
30	CLA	d	407	X	-	-	-
30	CLA	m	101	X	-	-	-
30	CLA	w	102	X	-	-	-

## 2 Entry composition [i](#)

There are 42 unique types of molecules in this entry. The entry contains 74619 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 Photosystem II reaction center protein D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	334	Total	C	N	O	S	0	0
			2618	1712	429	462	15		
1	a	334	Total	C	N	O	S	0	0
			2618	1712	429	462	15		

- Molecule 2 is a protein called Photosystem II chlorophyll protein CP47.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	484	Total	C	N	O	S	0	0
			3812	2494	645	660	13		
2	b	484	Total	C	N	O	S	0	0
			3812	2494	645	660	13		

- Molecule 3 is a protein called Photosystem II chlorophyll protein CP43.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	451	Total	C	N	O	S	0	0
			3504	2289	589	612	14		
3	c	451	Total	C	N	O	S	0	0
			3504	2289	589	612	14		

- Molecule 4 is a protein called Photosystem II reaction center protein D2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	341	Total	C	N	O	S	0	0
			2697	1781	441	465	10		
4	d	341	Total	C	N	O	S	0	0
			2697	1781	441	465	10		

- Molecule 5 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E	75	Total	C	N	O	0	0
			616	401	102	113		
5	e	75	Total	C	N	O	0	0
			616	401	102	113		

- Molecule 6 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	28	Total	C	N	O	S	0	0
			228	155	39	33	1		
6	f	28	Total	C	N	O	S	0	0
			228	155	39	33	1		

- Molecule 7 is a protein called Photosystem II reaction center protein H.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	66	Total	C	N	O	S	0	0
			513	340	83	88	2		
7	h	66	Total	C	N	O	S	0	0
			513	340	83	88	2		

- Molecule 8 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	35	Total	C	N	O	S	0	0
			287	194	45	47	1		
8	i	35	Total	C	N	O	S	0	0
			287	194	45	47	1		

- Molecule 9 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	J	34	Total	C	N	O	S	0	0
			254	172	38	43	1		
9	j	34	Total	C	N	O	S	0	0
			254	172	38	43	1		

- Molecule 10 is a protein called Photosystem II reaction center protein K.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	K	37	Total	C	N	O	0	0
			302	212	45	45		

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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
10	k	37	302	212	45	45	0	0

- Molecule 11 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	L	38	310	208	48	53	1	0	0
11	l	38	310	208	48	53	1	0	0

- Molecule 12 is a protein called Photosystem II reaction center protein M.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
12	M	42	316	207	51	58	0	0
12	m	42	316	207	51	58	0	0

- Molecule 13 is a protein called Extrinsic protein in photosystem II.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	O	245	1845	1166	306	365	8	0	0
13	o	245	1845	1166	306	365	8	0	0

- Molecule 14 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	T	30	250	174	36	38	2	0	0
14	t	30	250	174	36	38	2	0	0

- Molecule 15 is a protein called Extrinsic protein in photosystem II.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	U	93	713	455	119	137	2	0	0
15	u	93	713	455	119	137	2	0	0

- Molecule 16 is a protein called Cytochrome c-550.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	V	136	Total	C	N	O	S	0	0
			1037	647	180	206	4		
16	v	136	Total	C	N	O	S	0	0
			1037	647	180	206	4		

- Molecule 17 is a protein called Photosystem II reaction center protein Ycf12.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Y	34	Total	C	N	O	S	0	0
			250	166	41	40	3		
17	y	34	Total	C	N	O	S	0	0
			250	166	41	40	3		

- Molecule 18 is a protein called Photosystem II reaction center X protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	X	37	Total	C	N	O	S	0	0
			263	171	45	46	1		
18	x	37	Total	C	N	O	S	0	0
			263	171	45	46	1		

- Molecule 19 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	Z	59	Total	C	N	O	S	0	0
			447	305	68	73	1		
19	z	59	Total	C	N	O	S	0	0
			447	305	68	73	1		

- Molecule 20 is a protein called Extrinsic protein in photosystem II.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	Q	137	Total	C	N	O	S	0	0
			1079	684	179	215	1		
20	q	137	Total	C	N	O	S	0	0
			1079	684	179	215	1		

- Molecule 21 is a protein called Photosystem II reaction center protein W.



Mol	Chain	Residues	Atoms				AltConf	Trace
21	W	52	Total	C	N	O	0	0
			422	273	65	84		
21	w	52	Total	C	N	O	0	0
			422	273	65	84		

- Molecule 22 is a protein called Unknown protein 0.

Mol	Chain	Residues	Atoms				AltConf	Trace
22	0	31	Total	C	N	O	0	0
			155	93	31	31		
22	5	31	Total	C	N	O	0	0
			155	93	31	31		

- Molecule 23 is a protein called Unknown protein 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
23	1	30	Total	C	N	O	0	0
			150	90	30	30		
23	6	30	Total	C	N	O	0	0
			150	90	30	30		

- Molecule 24 is a protein called Unknown protein 2.

Mol	Chain	Residues	Atoms				AltConf	Trace
24	2	10	Total	C	N	O	0	0
			50	30	10	10		
24	7	10	Total	C	N	O	0	0
			50	30	10	10		

- Molecule 25 is a protein called Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	11	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		
25	12	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		
25	13	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		
25	14	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		
25	15	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		

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Mol	Chain	Residues	Atoms				AltConf	Trace	
25	16	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		
25	17	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		
25	18	176	Total	C	N	O	S	0	0
			1343	852	228	256	7		

- Molecule 26 is a protein called Fucoxanthin chlorophyll a/c-binding protein monomer 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
26	19	215	Total	C	N	O	0	0
			1075	645	215	215		

- Molecule 27 is a protein called Fucoxanthin chlorophyll a/c-binding protein monomer 2.

Mol	Chain	Residues	Atoms				AltConf	Trace
27	20	143	Total	C	N	O	0	0
			715	429	143	143		

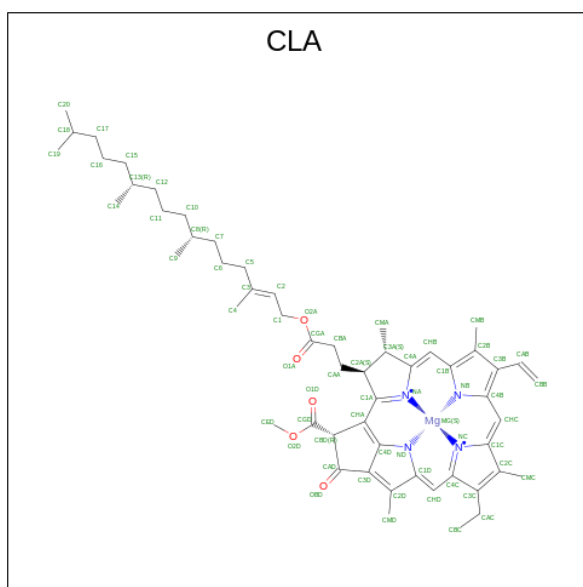
- Molecule 28 is a protein called Fucoxanthin chlorophyll a/c-binding protein monomer 3.

Mol	Chain	Residues	Atoms				AltConf	Trace
28	21	155	Total	C	N	O	0	0
			775	465	155	155		

- Molecule 29 is FE (II) ION (three-letter code: FE2) (formula: Fe).

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

- Molecule 30 is CHLOROPHYLL A (three-letter code: CLA) (formula: C<sub>55</sub>H<sub>72</sub>MgN<sub>4</sub>O<sub>5</sub>).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	Mg	N		O
30	A	1	Total	C	Mg	N	O	0
			130	110	2	8	10	
30	A	1	Total	C	Mg	N	O	0
			130	110	2	8	10	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	
30	B	1	Total	C	Mg	N	O	0
			1040	880	16	64	80	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	B	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	B	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	B	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	B	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	C	1	Total 975	C 825	Mg 15	N 60	O 75	0
30	D	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	D	1	Total 260	C 220	Mg 4	N 16	O 20	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	D	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	D	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	M	1	Total 65	C 55	Mg 1	N 4	O 5	0
30	Z	1	Total 65	C 55	Mg 1	N 4	O 5	0
30	W	1	Total 130	C 110	Mg 2	N 8	O 10	0
30	W	1	Total 130	C 110	Mg 2	N 8	O 10	0
30	a	1	Total 130	C 110	Mg 2	N 8	O 10	0
30	a	1	Total 130	C 110	Mg 2	N 8	O 10	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	b	1	Total 1040	C 880	Mg 16	N 64	O 80	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	c	1	Total 845	C 715	Mg 13	N 52	O 65	0
30	d	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	d	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	d	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	d	1	Total 260	C 220	Mg 4	N 16	O 20	0
30	m	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	
30	z	1	Total 65	C 55	Mg 1	N 4	O 5	0
30	w	1	Total 130	C 110	Mg 2	N 8	O 10	0
30	w	1	Total 130	C 110	Mg 2	N 8	O 10	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	11	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	12	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	13	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0
30	14	1	Total 530	C 430	Mg 10	N 40	O 50	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	17	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	18	1	Total 595	C 485	Mg 11	N 44	O 55	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0

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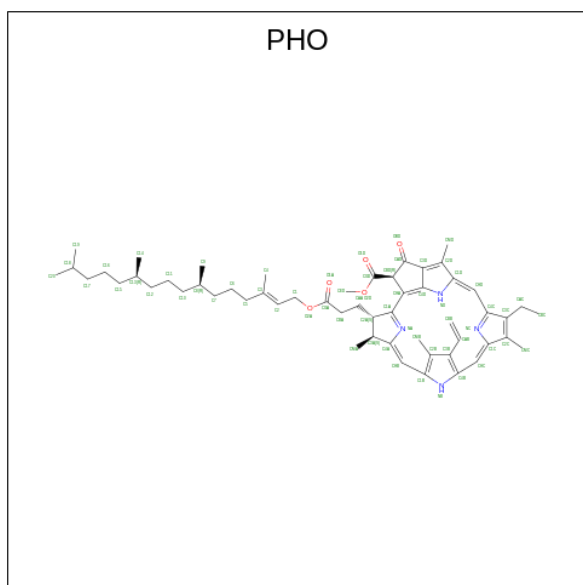
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	19	1	Total 465	C 375	Mg 9	N 36	O 45	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	20	1	Total 420	C 340	Mg 8	N 32	O 40	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0

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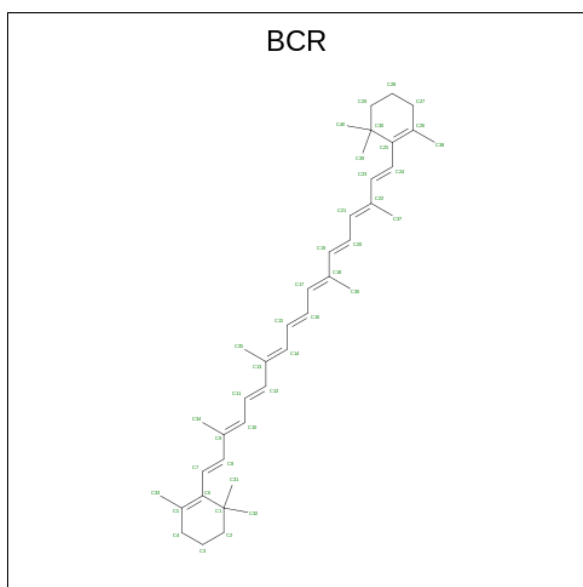
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0
30	21	1	Total 485	C 395	Mg 9	N 36	O 45	0

- Molecule 31 is PHEOPHYTIN A (three-letter code: PHO) (formula:  $C_{55}H_{74}N_4O_5$ ).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
31	A	1	Total 64	C 55	N 4	O 5	0
31	D	1	Total 64	C 55	N 4	O 5	0
31	d	1	Total 128	C 110	N 8	O 10	0
31	d	1	Total 128	C 110	N 8	O 10	0

- Molecule 32 is BETA-CAROTENE (three-letter code: BCR) (formula:  $C_{40}H_{56}$ ).



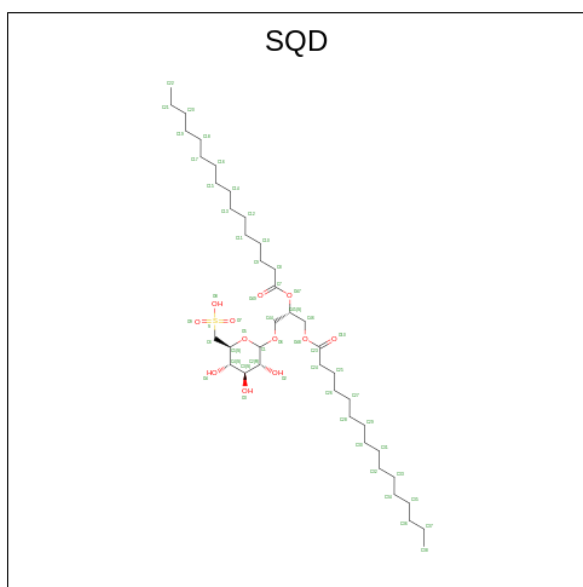
Mol	Chain	Residues	Atoms	AltConf
32	A	1	Total C 80 80	0
32	A	1	Total C 80 80	0
32	B	1	Total C 160 160	0
32	B	1	Total C 160 160	0
32	B	1	Total C 160 160	0
32	B	1	Total C 160 160	0
32	C	1	Total C 80 80	0
32	C	1	Total C 80 80	0
32	F	1	Total C 40 40	0
32	H	1	Total C 40 40	0
32	Y	1	Total C 40 40	0
32	Z	1	Total C 40 40	0
32	a	1	Total C 80 80	0
32	a	1	Total C 80 80	0

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Mol	Chain	Residues	Atoms		AltConf
32	b	1	Total	C	0
			120	120	
32	b	1	Total	C	0
			120	120	
32	b	1	Total	C	0
			120	120	
32	c	1	Total	C	0
			160	160	
32	c	1	Total	C	0
			160	160	
32	c	1	Total	C	0
			160	160	
32	c	1	Total	C	0
			160	160	
32	f	1	Total	C	0
			40	40	
32	h	1	Total	C	0
			40	40	
32	m	1	Total	C	0
			40	40	

- Molecule 33 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).



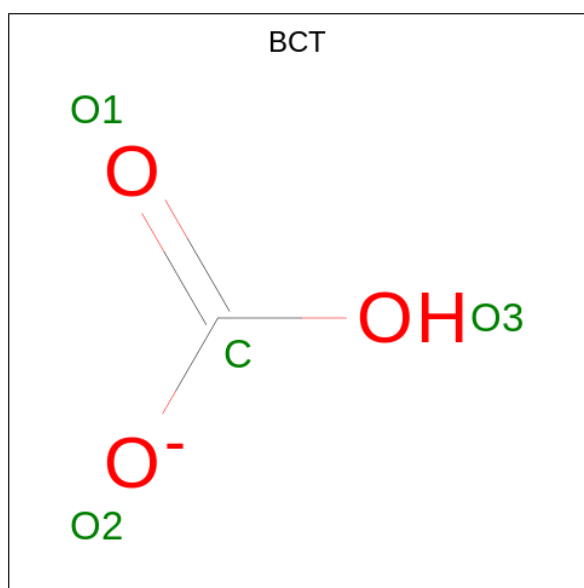
Mol	Chain	Residues	Atoms				AltConf
33	A	1	Total	C	O	S	0
			54	41	12	1	

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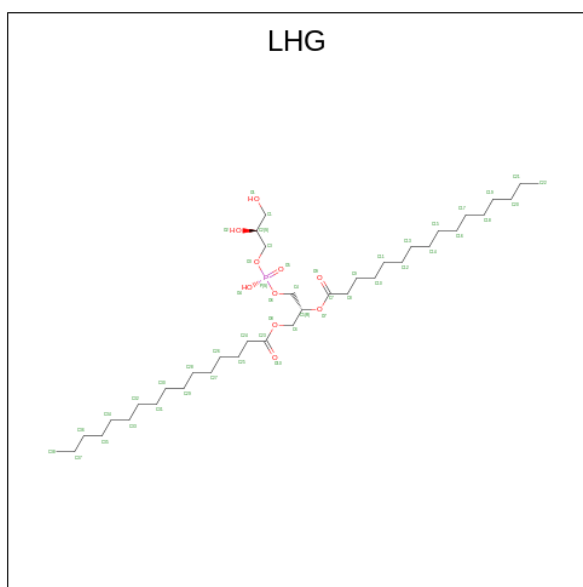
Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	S	
33	B	1	Total 37	C 24	O 12	S 1	0
33	L	1	Total 54	C 41	O 12	S 1	0
33	a	1	Total 54	C 41	O 12	S 1	0
33	b	1	Total 37	C 24	O 12	S 1	0
33	l	1	Total 54	C 41	O 12	S 1	0

- Molecule 34 is BICARBONATE ION (three-letter code: BCT) (formula:  $\text{CHO}_3$ ).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
34	A	1	Total 4	C 1	O 3	0
34	a	1	Total 4	C 1	O 3	0

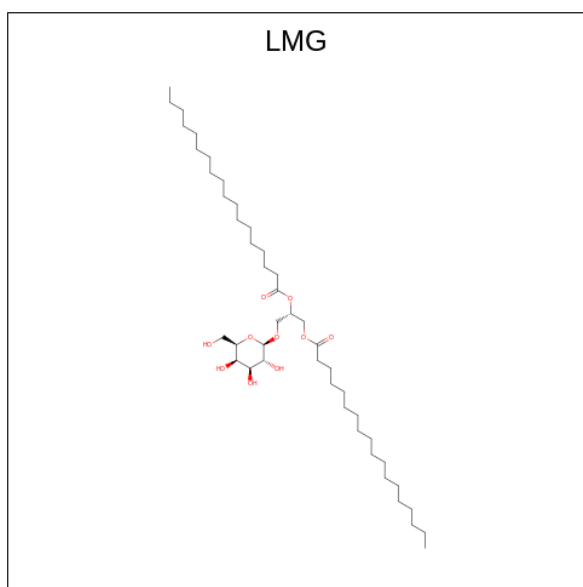
- Molecule 35 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula:  $\text{C}_{38}\text{H}_{75}\text{O}_{10}\text{P}$ ).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
35	A	1	46	35	10	1	0
35	B	1	49	38	10	1	0
35	L	1	98	76	20	2	0
35	L	1	98	76	20	2	0
35	a	1	46	35	10	1	0
35	b	1	49	38	10	1	0
35	d	1	49	38	10	1	0
35	l	1	49	38	10	1	0

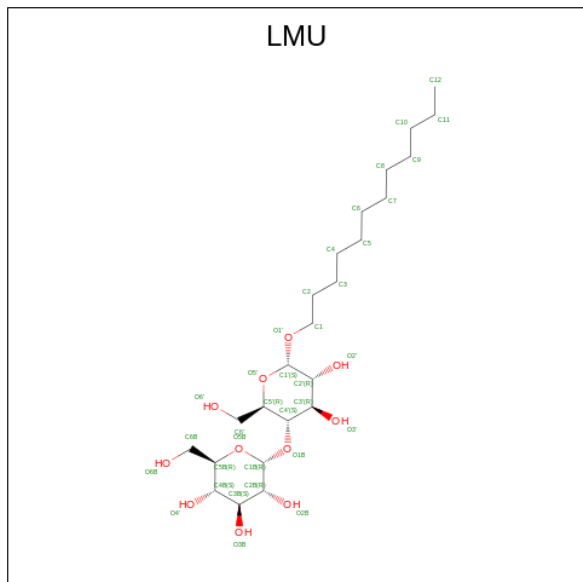
- Molecule 36 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula:  $C_{45}H_{86}O_{10}$ ).





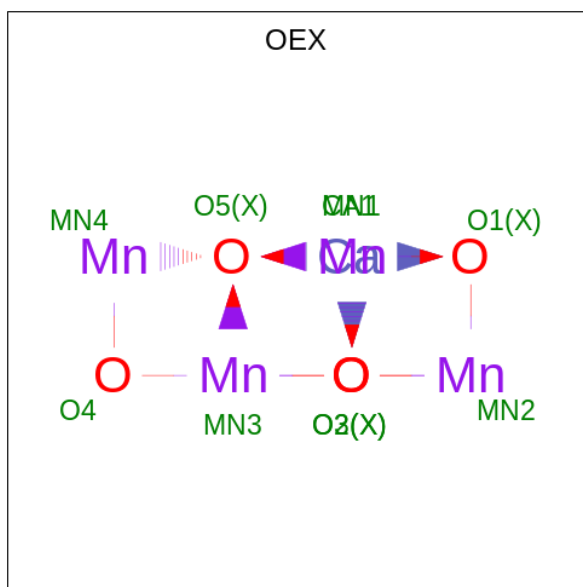
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
36	B	1	102	82	20	0
36	B	1	102	82	20	0
36	D	1	51	41	10	0
36	M	1	40	30	10	0
36	Q	1	51	41	10	0
36	W	1	51	41	10	0
36	1	1	39	29	10	0
36	b	1	102	82	20	0
36	b	1	102	82	20	0
36	c	1	51	41	10	0
36	d	1	51	41	10	0
36	m	1	40	30	10	0
36	w	1	51	41	10	0
36	12	1	39	29	10	0

- Molecule 37 is DODECYL-ALPHA-D-MALTOSE (three-letter code: LMU) (formula:  $C_{24}H_{46}O_{11}$ ).



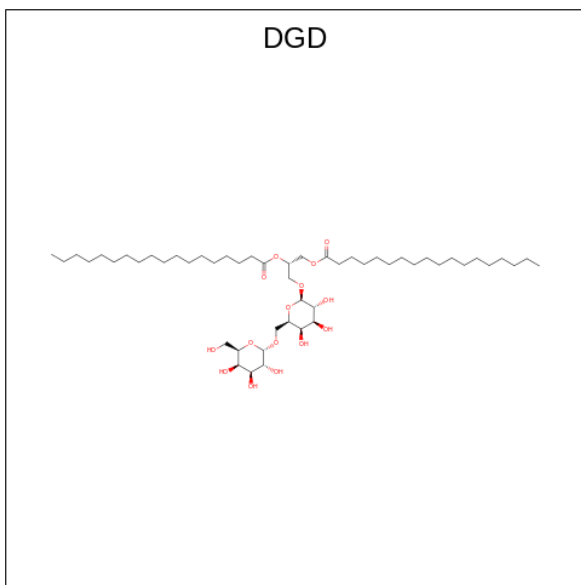
Mol	Chain	Residues	Atoms			AltConf
37	B	1	Total	C	O	0
			32	21	11	
37	12	1	Total	C	O	0
			32	21	11	

- Molecule 38 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula:  $CaMn_4O_5$ ).



Mol	Chain	Residues	Atoms				AltConf
38	C	1	Total	Ca	Mn	O	0
			10	1	4	5	
38	c	1	Total	Ca	Mn	O	0
			10	1	4	5	

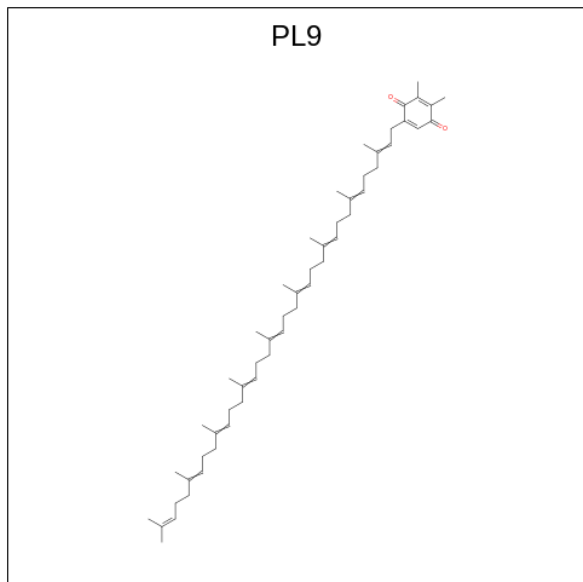
- Molecule 39 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula:  $C_{51}H_{96}O_{15}$ ).



Mol	Chain	Residues	Atoms			AltConf
39	C	1	Total	C	O	0
			124	94	30	
39	C	1	Total	C	O	0
			124	94	30	
39	H	1	Total	C	O	0
			62	47	15	
39	J	1	Total	C	O	0
			62	47	15	
39	c	1	Total	C	O	0
			124	94	30	
39	c	1	Total	C	O	0
			124	94	30	
39	h	1	Total	C	O	0
			62	47	15	
39	j	1	Total	C	O	0
			62	47	15	

- Molecule 40 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:  $C_{53}H_{80}O_2$ ).



Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
40	D	1	110	106	4	0
40	D	1	110	106	4	0
40	d	1	110	106	4	0
40	d	1	110	106	4	0

- Molecule 41 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula:  $C_{34}H_{32}FeN_4O_4$ ).



Mol	Chain	Residues	Atoms			AltConf
42	11	1	Total	C	O	0
			288	252	36	
42	11	1	Total	C	O	0
			288	252	36	
42	11	1	Total	C	O	0
			288	252	36	
42	11	1	Total	C	O	0
			288	252	36	
42	11	1	Total	C	O	0
			288	252	36	
42	11	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	12	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	13	1	Total	C	O	0
			288	252	36	
42	14	1	Total	C	O	0
			288	252	36	
42	14	1	Total	C	O	0
			288	252	36	
42	14	1	Total	C	O	0
			288	252	36	
42	14	1	Total	C	O	0
			288	252	36	

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*Continued from previous page...*

Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
42	14	1	288	252	36	0
42	14	1	288	252	36	0
42	15	1	336	294	42	0
42	15	1	336	294	42	0
42	15	1	336	294	42	0
42	15	1	336	294	42	0
42	15	1	336	294	42	0
42	15	1	336	294	42	0
42	15	1	336	294	42	0
42	16	1	192	168	24	0
42	16	1	192	168	24	0
42	16	1	192	168	24	0
42	16	1	192	168	24	0
42	17	1	336	294	42	0
42	17	1	336	294	42	0
42	17	1	336	294	42	0
42	17	1	336	294	42	0
42	17	1	336	294	42	0
42	17	1	336	294	42	0
42	17	1	336	294	42	0
42	18	1	192	168	24	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
42	18	1	Total 192	C 168	O 24	0
42	18	1	Total 192	C 168	O 24	0
42	18	1	Total 192	C 168	O 24	0
42	19	1	Total 144	C 126	O 18	0
42	19	1	Total 144	C 126	O 18	0
42	19	1	Total 144	C 126	O 18	0
42	20	1	Total 240	C 210	O 30	0
42	20	1	Total 240	C 210	O 30	0
42	20	1	Total 240	C 210	O 30	0
42	20	1	Total 240	C 210	O 30	0
42	20	1	Total 240	C 210	O 30	0
42	20	1	Total 240	C 210	O 30	0
42	21	1	Total 240	C 210	O 30	0
42	21	1	Total 240	C 210	O 30	0
42	21	1	Total 240	C 210	O 30	0
42	21	1	Total 240	C 210	O 30	0
42	21	1	Total 240	C 210	O 30	0
42	21	1	Total 240	C 210	O 30	0

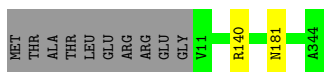


### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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.

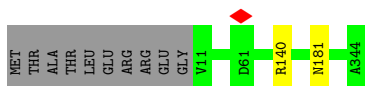
- Molecule 1: Photosystem II reaction center protein D1

Chain A:  97%



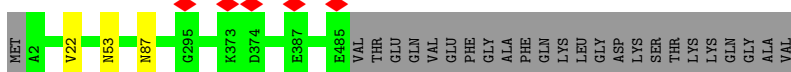
- Molecule 1: Photosystem II reaction center protein D1

Chain a:  97%



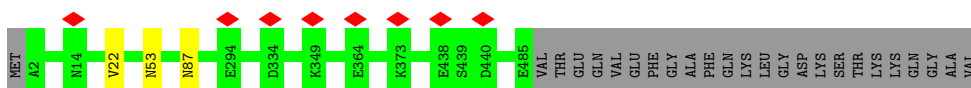
- Molecule 2: Photosystem II chlorophyll protein CP47

Chain B:  94%



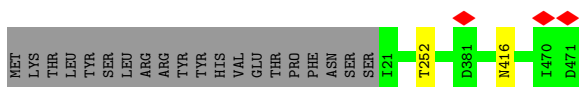
- Molecule 2: Photosystem II chlorophyll protein CP47

Chain b:  94%

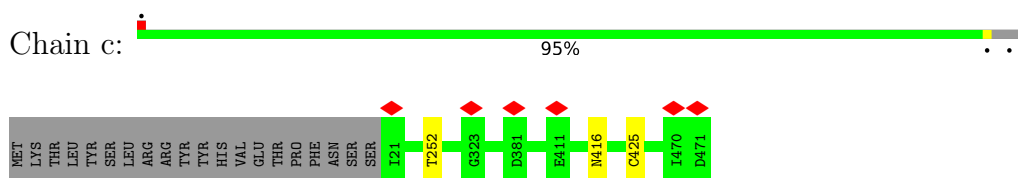


- Molecule 3: Photosystem II chlorophyll protein CP43

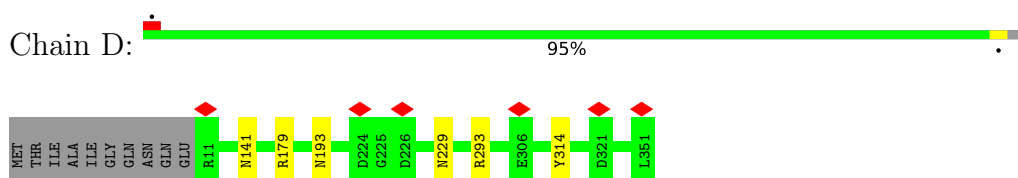
Chain C:  95%



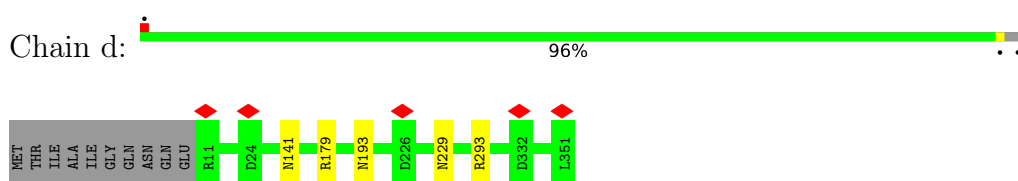
- Molecule 3: Photosystem II chlorophyll protein CP43



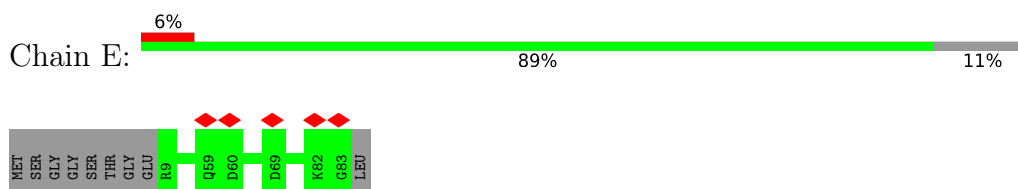
- Molecule 4: Photosystem II reaction center protein D2



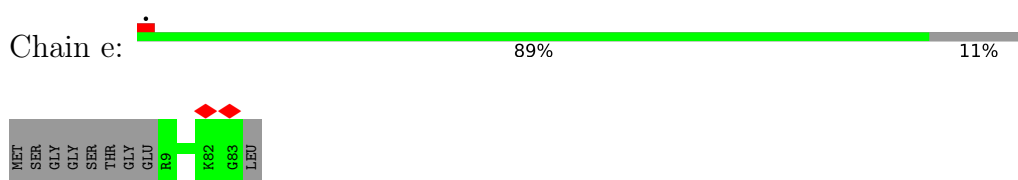
- Molecule 4: Photosystem II reaction center protein D2



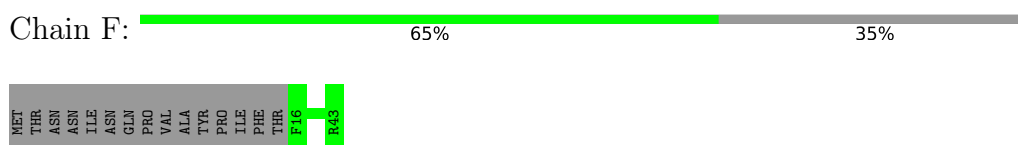
- Molecule 5: Cytochrome b559 subunit alpha



- Molecule 5: Cytochrome b559 subunit alpha

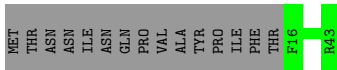


- Molecule 6: Cytochrome b559 subunit beta

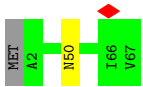


- Molecule 6: Cytochrome b559 subunit beta

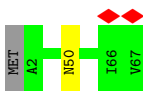




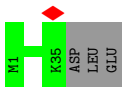
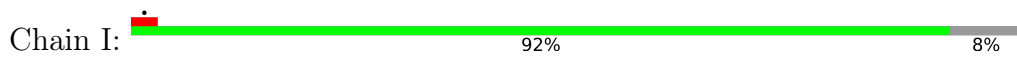
- Molecule 7: Photosystem II reaction center protein H



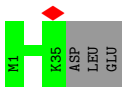
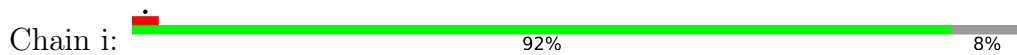
- Molecule 7: Photosystem II reaction center protein H



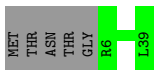
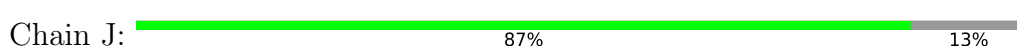
- Molecule 8: Photosystem II reaction center protein I



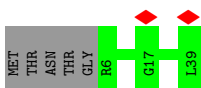
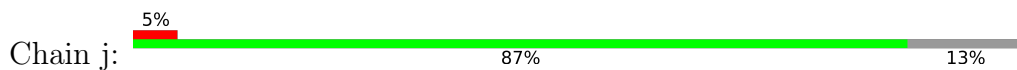
- Molecule 8: Photosystem II reaction center protein I



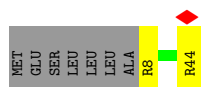
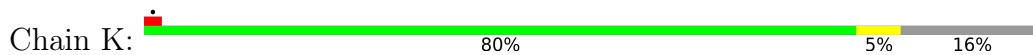
- Molecule 9: Photosystem II reaction center protein J



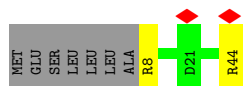
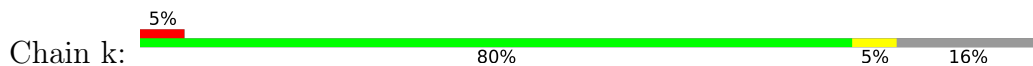
- Molecule 9: Photosystem II reaction center protein J



- Molecule 10: Photosystem II reaction center protein K



- Molecule 10: Photosystem II reaction center protein K



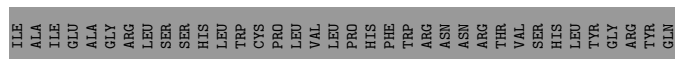
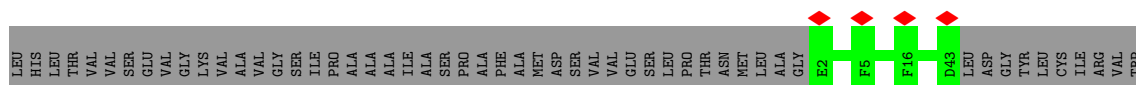
- Molecule 11: Photosystem II reaction center protein L



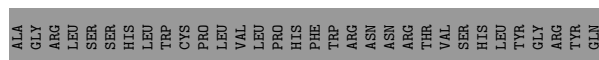
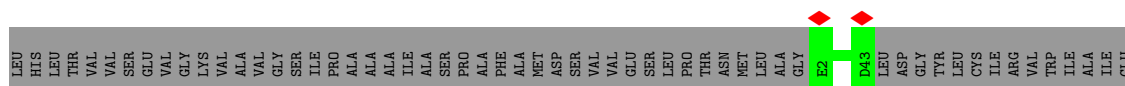
- Molecule 11: Photosystem II reaction center protein L



- Molecule 12: Photosystem II reaction center protein M

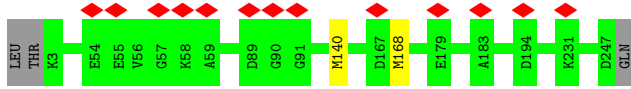


- Molecule 12: Photosystem II reaction center protein M



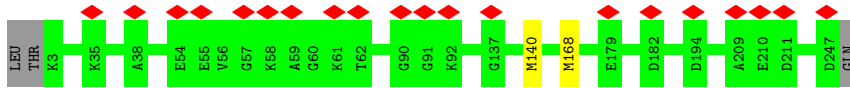
- Molecule 13: Extrinsic protein in photosystem II

Chain O:  5% 98%



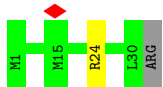
- Molecule 13: Extrinsic protein in photosystem II

Chain o:  8% 98%

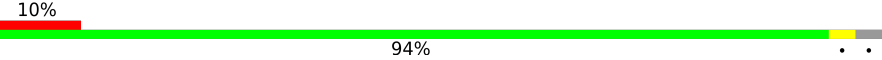


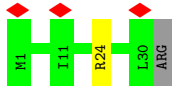
- Molecule 14: Photosystem II reaction center protein T

Chain T:  94%



- Molecule 14: Photosystem II reaction center protein T

Chain t:  10% 94%



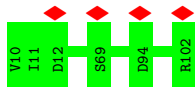
- Molecule 15: Extrinsic protein in photosystem II

Chain U:  100%



- Molecule 15: Extrinsic protein in photosystem II

Chain u:  100%



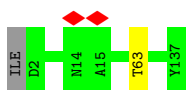
- Molecule 16: Cytochrome c-550

Chain V:  99%



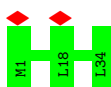
- Molecule 16: Cytochrome c-550

Chain v:  99%



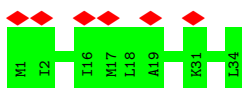
- Molecule 17: Photosystem II reaction center protein Ycf12

Chain Y:  6% 100%



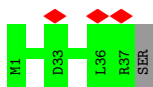
- Molecule 17: Photosystem II reaction center protein Ycf12

Chain y:  18% 100%



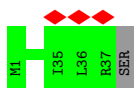
- Molecule 18: Photosystem II reaction center X protein

Chain X:  8% 97%



- Molecule 18: Photosystem II reaction center X protein

Chain x:  8% 97%



- Molecule 19: Photosystem II reaction center protein Z

Chain Z:  97%

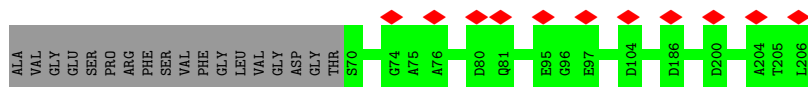
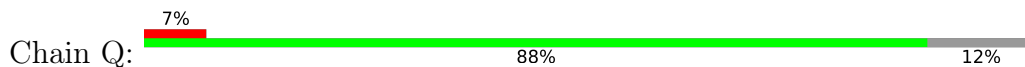


- Molecule 19: Photosystem II reaction center protein Z

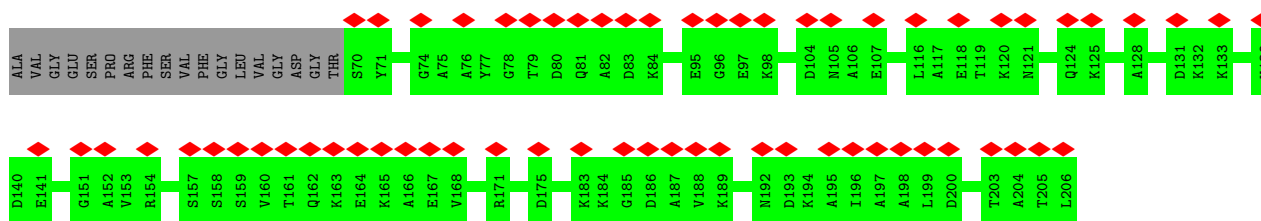
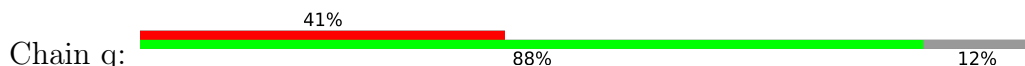
Chain z:  97%



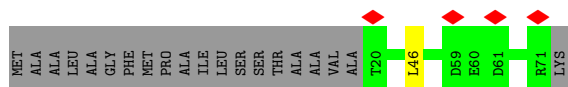
- Molecule 20: Extrinsic protein in photosystem II



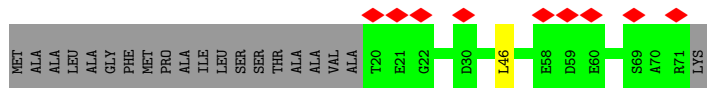
- Molecule 20: Extrinsic protein in photosystem II



- Molecule 21: Photosystem II reaction center protein W



- Molecule 21: Photosystem II reaction center protein W



- Molecule 22: Unknown protein 0



- Molecule 22: Unknown protein 0



There are no outlier residues recorded for this chain.

- Molecule 23: Unknown protein 1

Chain 1:  100%



- Molecule 23: Unknown protein 1

Chain 6:  100%



- Molecule 24: Unknown protein 2

Chain 2:  100%


There are no outlier residues recorded for this chain.

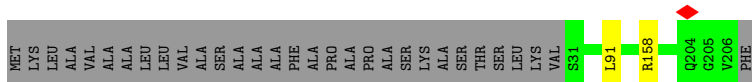
- Molecule 24: Unknown protein 2

Chain 7:  100%


There are no outlier residues recorded for this chain.

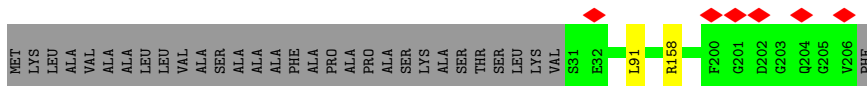
- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

Chain 11:  84% 15%




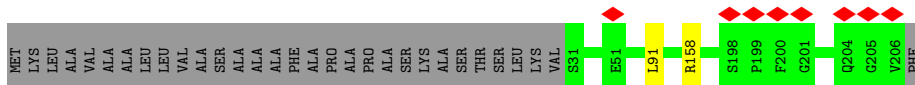
- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

Chain 12:  84% 15%




- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

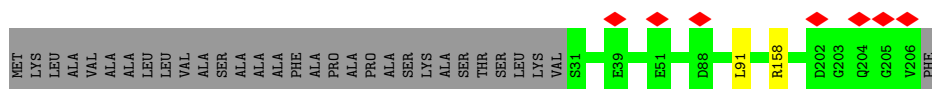
Chain 13:  84% 15%




- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

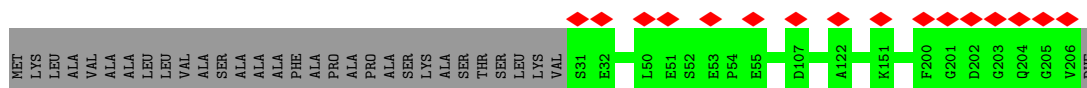


Chain 14:  84% 15%




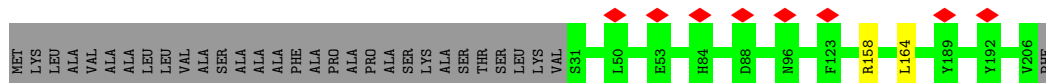
- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

Chain 15:  85% 15%




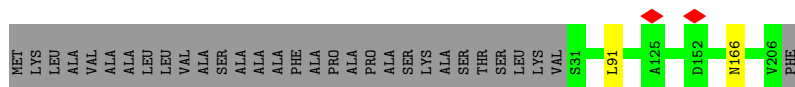
- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

Chain 16:  84% 15%




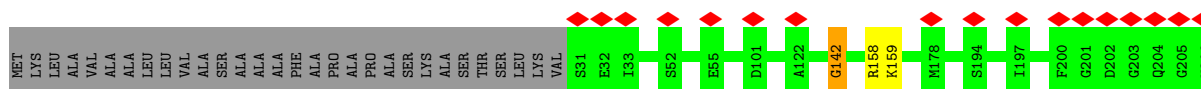
- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

Chain 17:  84% 15%



- Molecule 25: Fucoxanthin chlorophyll a/c-binding protein Lhcf1, FCP1

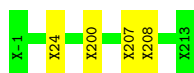
Chain 18:  84% 15%



PHE

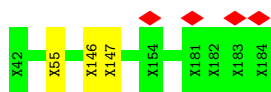
- Molecule 26: Fucoxanthin chlorophyll a/c-binding protein monomer 1

Chain 19:  98%



- Molecule 27: Fucoxanthin chlorophyll a/c-binding protein monomer 2

Chain 20:  98%



- Molecule 28: Fucoxanthin chlorophyll a/c-binding protein monomer 3

Chain 21:  17%  
100%



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	147981	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 ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.346	Depositor
Minimum map value	-0.164	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.06	Depositor
Map size (Å)	573.44, 573.44, 573.44	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.12, 1.12, 1.12	Depositor

## 5 Model quality

### 5.1 Standard geometry

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

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	0.58	0/2701	0.60	0/3682
1	a	0.58	0/2701	0.60	0/3682
2	B	0.58	1/3942 (0.0%)	0.57	0/5362
2	b	0.58	1/3942 (0.0%)	0.57	0/5362
3	C	0.58	0/3620	0.60	1/4933 (0.0%)
3	c	0.58	1/3620 (0.0%)	0.60	1/4933 (0.0%)
4	D	0.58	1/2789 (0.0%)	0.60	0/3803
4	d	0.58	0/2789	0.60	0/3803
5	E	0.44	0/634	0.52	0/864
5	e	0.44	0/634	0.53	0/864
6	F	0.45	0/235	0.70	0/316
6	f	0.46	0/235	0.70	0/316
7	H	0.49	0/523	0.61	0/714
7	h	0.49	0/523	0.61	0/714
8	I	0.62	0/294	0.70	0/397
8	i	0.62	0/294	0.70	0/397
9	J	0.43	0/260	0.59	0/351
9	j	0.43	0/260	0.59	0/351
10	K	0.57	0/313	0.68	0/429
10	k	0.56	0/313	0.68	0/429
11	L	0.61	0/319	0.55	0/433
11	l	0.61	0/319	0.55	0/433
12	M	0.47	0/321	0.61	0/433
12	m	0.47	0/321	0.61	0/433
13	O	0.41	0/1875	0.58	0/2528
13	o	0.41	0/1875	0.58	0/2528
14	T	0.45	0/256	0.53	0/346
14	t	0.45	0/256	0.52	0/346
15	U	0.40	0/728	0.58	0/989
15	u	0.41	0/728	0.58	0/989
16	V	0.42	0/1056	0.56	0/1435
16	v	0.42	0/1056	0.56	0/1435

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	Y	0.32	0/252	0.52	0/341
17	y	0.32	0/252	0.52	0/341
18	X	0.31	0/263	0.54	0/355
18	x	0.31	0/263	0.54	0/355
19	Z	0.41	0/456	0.58	0/624
19	z	0.41	0/456	0.58	0/624
20	Q	0.39	0/1099	0.56	0/1482
20	q	0.39	0/1099	0.56	0/1482
21	W	0.53	0/434	0.67	1/590 (0.2%)
21	w	0.53	0/434	0.67	1/590 (0.2%)
25	11	0.43	0/1373	0.55	1/1861 (0.1%)
25	12	0.43	0/1373	0.55	1/1861 (0.1%)
25	13	0.43	0/1373	0.55	1/1861 (0.1%)
25	14	0.43	0/1373	0.55	1/1861 (0.1%)
25	15	0.33	0/1373	0.52	0/1861
25	16	0.42	0/1373	0.64	1/1861 (0.1%)
25	17	0.41	0/1373	0.58	1/1861 (0.1%)
25	18	0.35	0/1373	0.54	0/1861
All	All	0.51	4/55724 (0.0%)	0.58	10/75702 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	a	0	1
16	V	0	1
16	v	0	1
25	18	0	1
26	19	0	4
27	20	0	3
All	All	0	12

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	b	22	VAL	CB-CG1	-7.21	1.37	1.52
2	B	22	VAL	CB-CG1	-7.19	1.37	1.52
3	c	425	CYS	CB-SG	-5.11	1.73	1.81
4	D	314	TYR	CD1-CE1	-5.01	1.31	1.39

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	252	THR	C-N-CA	6.19	137.17	121.70
3	c	252	THR	C-N-CA	6.15	137.08	121.70
21	w	46	LEU	CB-CG-CD1	-5.36	101.90	111.00
21	W	46	LEU	CB-CG-CD1	-5.33	101.94	111.00
25	16	164	LEU	CA-CB-CG	5.16	127.17	115.30
25	17	91	LEU	CA-CB-CG	5.11	127.06	115.30
25	14	91	LEU	CA-CB-CG	5.07	126.95	115.30
25	11	91	LEU	CA-CB-CG	5.05	126.91	115.30
25	13	91	LEU	CA-CB-CG	5.02	126.85	115.30
25	12	91	LEU	CA-CB-CG	5.01	126.83	115.30

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
25	18	142	GLY	Peptide
26	19	200	UNK	Peptide
26	19	207	UNK	Peptide
26	19	208	UNK	Peptide
26	19	24	UNK	Peptide
27	20	146	UNK	Peptide
27	20	147	UNK	Peptide
27	20	55	UNK	Peptide
1	A	140	ARG	Peptide
16	V	63	THR	Peptide
1	a	140	ARG	Peptide
16	v	63	THR	Peptide

## 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	332/344 (96%)	322 (97%)	10 (3%)	0	100	100
1	a	332/344 (96%)	322 (97%)	10 (3%)	0	100	100
2	B	482/509 (95%)	466 (97%)	16 (3%)	0	100	100
2	b	482/509 (95%)	466 (97%)	16 (3%)	0	100	100
3	C	449/471 (95%)	429 (96%)	20 (4%)	0	100	100
3	c	449/471 (95%)	429 (96%)	20 (4%)	0	100	100
4	D	339/351 (97%)	324 (96%)	15 (4%)	0	100	100
4	d	339/351 (97%)	324 (96%)	15 (4%)	0	100	100
5	E	73/84 (87%)	72 (99%)	1 (1%)	0	100	100
5	e	73/84 (87%)	72 (99%)	1 (1%)	0	100	100
6	F	26/43 (60%)	26 (100%)	0	0	100	100
6	f	26/43 (60%)	26 (100%)	0	0	100	100
7	H	64/67 (96%)	62 (97%)	2 (3%)	0	100	100
7	h	64/67 (96%)	62 (97%)	2 (3%)	0	100	100
8	I	33/38 (87%)	32 (97%)	1 (3%)	0	100	100
8	i	33/38 (87%)	32 (97%)	1 (3%)	0	100	100
9	J	32/39 (82%)	32 (100%)	0	0	100	100
9	j	32/39 (82%)	32 (100%)	0	0	100	100
10	K	35/44 (80%)	35 (100%)	0	0	100	100
10	k	35/44 (80%)	35 (100%)	0	0	100	100
11	L	36/38 (95%)	35 (97%)	1 (3%)	0	100	100
11	l	36/38 (95%)	35 (97%)	1 (3%)	0	100	100
12	M	40/131 (30%)	37 (92%)	3 (8%)	0	100	100
12	m	40/131 (30%)	37 (92%)	3 (8%)	0	100	100
13	O	243/248 (98%)	231 (95%)	12 (5%)	0	100	100
13	o	243/248 (98%)	231 (95%)	12 (5%)	0	100	100
14	T	28/31 (90%)	27 (96%)	1 (4%)	0	100	100
14	t	28/31 (90%)	27 (96%)	1 (4%)	0	100	100
15	U	91/93 (98%)	86 (94%)	5 (6%)	0	100	100
15	u	91/93 (98%)	85 (93%)	6 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
16	V	134/137 (98%)	126 (94%)	8 (6%)	0	100	100
16	v	134/137 (98%)	126 (94%)	8 (6%)	0	100	100
17	Y	32/34 (94%)	30 (94%)	2 (6%)	0	100	100
17	y	32/34 (94%)	30 (94%)	2 (6%)	0	100	100
18	X	35/38 (92%)	34 (97%)	1 (3%)	0	100	100
18	x	35/38 (92%)	34 (97%)	1 (3%)	0	100	100
19	Z	57/61 (93%)	56 (98%)	1 (2%)	0	100	100
19	z	57/61 (93%)	56 (98%)	1 (2%)	0	100	100
20	Q	135/155 (87%)	126 (93%)	9 (7%)	0	100	100
20	q	135/155 (87%)	126 (93%)	9 (7%)	0	100	100
21	W	50/72 (69%)	46 (92%)	4 (8%)	0	100	100
21	w	50/72 (69%)	46 (92%)	4 (8%)	0	100	100
25	11	174/207 (84%)	167 (96%)	7 (4%)	0	100	100
25	12	174/207 (84%)	167 (96%)	7 (4%)	0	100	100
25	13	174/207 (84%)	168 (97%)	6 (3%)	0	100	100
25	14	174/207 (84%)	168 (97%)	6 (3%)	0	100	100
25	15	174/207 (84%)	163 (94%)	11 (6%)	0	100	100
25	16	174/207 (84%)	159 (91%)	15 (9%)	0	100	100
25	17	174/207 (84%)	162 (93%)	12 (7%)	0	100	100
25	18	174/207 (84%)	165 (95%)	8 (5%)	1 (1%)	25	64
All	All	6884/7712 (89%)	6586 (96%)	297 (4%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
25	18	142	GLY

### 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	272/280 (97%)	271 (100%)	1 (0%)	91	97
1	a	272/280 (97%)	271 (100%)	1 (0%)	91	97
2	B	385/405 (95%)	383 (100%)	2 (0%)	88	95
2	b	385/405 (95%)	383 (100%)	2 (0%)	88	95
3	C	356/376 (95%)	355 (100%)	1 (0%)	92	97
3	c	356/376 (95%)	355 (100%)	1 (0%)	92	97
4	D	273/281 (97%)	268 (98%)	5 (2%)	59	81
4	d	273/281 (97%)	268 (98%)	5 (2%)	59	81
5	E	69/75 (92%)	69 (100%)	0	100	100
5	e	69/75 (92%)	69 (100%)	0	100	100
6	F	22/36 (61%)	22 (100%)	0	100	100
6	f	22/36 (61%)	22 (100%)	0	100	100
7	H	55/56 (98%)	54 (98%)	1 (2%)	59	81
7	h	55/56 (98%)	54 (98%)	1 (2%)	59	81
8	I	34/37 (92%)	34 (100%)	0	100	100
8	i	34/37 (92%)	34 (100%)	0	100	100
9	J	27/31 (87%)	27 (100%)	0	100	100
9	j	27/31 (87%)	27 (100%)	0	100	100
10	K	32/38 (84%)	30 (94%)	2 (6%)	18	53
10	k	32/38 (84%)	30 (94%)	2 (6%)	18	53
11	L	34/34 (100%)	34 (100%)	0	100	100
11	l	34/34 (100%)	34 (100%)	0	100	100
12	M	31/104 (30%)	31 (100%)	0	100	100
12	m	31/104 (30%)	31 (100%)	0	100	100
13	O	196/201 (98%)	194 (99%)	2 (1%)	76	88
13	o	196/201 (98%)	194 (99%)	2 (1%)	76	88
14	T	27/28 (96%)	26 (96%)	1 (4%)	34	66
14	t	27/28 (96%)	26 (96%)	1 (4%)	34	66
15	U	77/77 (100%)	77 (100%)	0	100	100
15	u	77/77 (100%)	77 (100%)	0	100	100
16	V	114/115 (99%)	114 (100%)	0	100	100
16	v	114/115 (99%)	114 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	Y	27/27 (100%)	27 (100%)	0	100	100
17	y	27/27 (100%)	27 (100%)	0	100	100
18	X	29/30 (97%)	29 (100%)	0	100	100
18	x	29/30 (97%)	29 (100%)	0	100	100
19	Z	48/50 (96%)	48 (100%)	0	100	100
19	z	48/50 (96%)	48 (100%)	0	100	100
20	Q	111/124 (90%)	111 (100%)	0	100	100
20	q	111/124 (90%)	111 (100%)	0	100	100
21	W	43/55 (78%)	43 (100%)	0	100	100
21	w	43/55 (78%)	43 (100%)	0	100	100
25	11	138/158 (87%)	137 (99%)	1 (1%)	84	93
25	12	138/158 (87%)	137 (99%)	1 (1%)	84	93
25	13	138/158 (87%)	137 (99%)	1 (1%)	84	93
25	14	138/158 (87%)	137 (99%)	1 (1%)	84	93
25	15	138/158 (87%)	138 (100%)	0	100	100
25	16	138/158 (87%)	137 (99%)	1 (1%)	84	93
25	17	138/158 (87%)	137 (99%)	1 (1%)	84	93
25	18	138/158 (87%)	136 (99%)	2 (1%)	67	85
All	All	5628/6184 (91%)	5590 (99%)	38 (1%)	84	93

All (38) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	181	ASN
2	B	53	ASN
2	B	87	ASN
3	C	416	ASN
4	D	141	ASN
4	D	179	ARG
4	D	193	ASN
4	D	229	ASN
4	D	293	ARG
7	H	50	ASN
10	K	8	ARG
10	K	44	ARG
13	O	140	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	O	168	MET
14	T	24	ARG
1	a	181	ASN
2	b	53	ASN
2	b	87	ASN
3	c	416	ASN
4	d	141	ASN
4	d	179	ARG
4	d	193	ASN
4	d	229	ASN
4	d	293	ARG
7	h	50	ASN
10	k	8	ARG
10	k	44	ARG
13	o	140	MET
13	o	168	MET
14	t	24	ARG
25	11	158	ARG
25	12	158	ARG
25	13	158	ARG
25	14	158	ARG
25	16	158	ARG
25	17	166	ASN
25	18	158	ARG
25	18	159	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (59) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	92	HIS
1	A	303	ASN
2	B	87	ASN
2	B	179	GLN
2	B	457	ASN
3	C	311	GLN
3	C	325	ASN
3	C	416	ASN
4	D	193	ASN
4	D	229	ASN
4	D	291	ASN
5	E	62	GLN
13	O	7	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	O	109	GLN
13	O	222	GLN
16	V	25	GLN
16	V	68	ASN
20	Q	105	ASN
20	Q	162	GLN
1	a	303	ASN
2	b	87	ASN
2	b	179	GLN
2	b	394	GLN
2	b	457	ASN
3	c	325	ASN
3	c	416	ASN
4	d	193	ASN
4	d	219	ASN
4	d	229	ASN
4	d	349	ASN
5	e	62	GLN
13	o	7	ASN
13	o	109	GLN
13	o	222	GLN
16	v	25	GLN
16	v	68	ASN
17	y	33	ASN
20	q	105	ASN
20	q	162	GLN
25	11	82	ASN
25	11	161	ASN
25	12	82	ASN
25	12	161	ASN
25	13	82	ASN
25	13	83	ASN
25	13	161	ASN
25	13	177	ASN
25	14	82	ASN
25	14	161	ASN
25	14	177	ASN
25	15	82	ASN
25	15	96	ASN
25	16	96	ASN
25	16	177	ASN
25	17	82	ASN

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Mol	Chain	Res	Type
25	17	96	ASN
25	17	161	ASN
25	18	82	ASN
25	18	96	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

Of 323 ligands modelled in this entry, 2 are monoatomic - leaving 321 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$
42	A86	15	315	-	44,50,50	4.01	23 (52%)	51,76,76	7.60	20 (39%)
36	LMG	w	101	-	51,51,55	0.89	4 (7%)	59,59,63	1.40	7 (11%)
30	CLA	C	504	-	65,73,73	1.47	11 (16%)	76,113,113	1.53	11 (14%)
30	CLA	18	306	25	45,53,73	1.74	7 (15%)	52,89,113	1.85	8 (15%)
30	CLA	14	302	-	65,73,73	1.46	9 (13%)	76,113,113	1.48	8 (10%)
37	LMU	12	302	30,25	33,33,36	1.30	3 (9%)	44,44,47	1.54	7 (15%)
30	CLA	13	308	25	65,73,73	1.46	10 (15%)	76,113,113	1.55	10 (13%)
32	BCR	B	617	-	41,41,41	1.21	2 (4%)	56,56,56	1.36	9 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	CLA	b	606	-	65,73,73	1.58	12 (18%)	76,113,113	1.60	13 (17%)
42	A86	13	311	-	44,50,50	3.92	23 (52%)	51,76,76	8.33	17 (33%)
42	A86	14	313	-	44,50,50	3.96	23 (52%)	51,76,76	7.96	18 (35%)
42	A86	18	314	-	44,50,50	3.98	23 (52%)	51,76,76	7.94	18 (35%)
30	CLA	16	303	-	45,53,73	1.69	9 (20%)	52,89,113	2.01	11 (21%)
40	PL9	d	405	4	55,55,55	1.36	6 (10%)	68,69,69	1.50	14 (20%)
30	CLA	21	308	-	45,53,73	1.75	6 (13%)	52,89,113	1.65	7 (13%)
30	CLA	B	611	-	65,73,73	1.51	12 (18%)	76,113,113	1.59	11 (14%)
42	A86	17	313	-	44,50,50	4.05	24 (54%)	51,76,76	7.82	19 (37%)
30	CLA	17	301	-	65,73,73	1.44	10 (15%)	76,113,113	1.48	10 (13%)
30	CLA	B	614	-	65,73,73	1.38	10 (15%)	76,113,113	1.58	10 (13%)
30	CLA	C	519	-	65,73,73	1.47	11 (16%)	76,113,113	1.47	7 (9%)
30	CLA	19	306	-	45,53,73	1.72	11 (24%)	52,89,113	1.62	7 (13%)
42	A86	19	311	-	44,50,50	4.09	21 (47%)	51,76,76	7.17	19 (37%)
30	CLA	A	404	-	65,73,73	1.48	10 (15%)	76,113,113	1.52	10 (13%)
30	CLA	21	302	-	45,53,73	1.75	7 (15%)	52,89,113	1.73	10 (19%)
30	CLA	18	305	-	65,73,73	1.44	8 (12%)	76,113,113	1.48	7 (9%)
30	CLA	20	203	30	45,53,73	1.77	9 (20%)	52,89,113	1.72	8 (15%)
30	CLA	20	208	-	45,53,73	1.70	7 (15%)	52,89,113	1.78	9 (17%)
42	A86	17	302	-	44,50,50	3.94	23 (52%)	51,76,76	8.13	21 (41%)
30	CLA	B	604	-	65,73,73	1.45	12 (18%)	76,113,113	1.68	16 (21%)
30	CLA	17	304	-	45,53,73	1.69	11 (24%)	52,89,113	1.83	9 (17%)
42	A86	11	311	-	44,50,50	3.96	23 (52%)	51,76,76	7.93	18 (35%)
30	CLA	17	303	25	65,73,73	1.48	10 (15%)	76,113,113	1.58	8 (10%)
42	A86	15	316	-	44,50,50	3.99	23 (52%)	51,76,76	7.60	20 (39%)
42	A86	15	314	-	44,50,50	3.93	23 (52%)	51,76,76	7.97	19 (37%)
30	CLA	C	503	-	65,73,73	1.52	12 (18%)	76,113,113	1.53	12 (15%)
31	PHO	D	403	-	51,69,69	1.14	8 (15%)	47,99,99	1.28	6 (12%)
30	CLA	18	309	25	65,73,73	1.51	8 (12%)	76,113,113	1.60	10 (13%)
32	BCR	C	518	-	41,41,41	1.28	2 (4%)	56,56,56	1.37	6 (10%)
36	LMG	B	620	-	51,51,55	0.98	5 (9%)	59,59,63	1.44	8 (13%)
30	CLA	12	305	25	65,73,73	1.46	9 (13%)	76,113,113	1.67	8 (10%)
30	CLA	c	505	-	65,73,73	1.44	12 (18%)	76,113,113	1.68	11 (14%)
33	SQD	b	620	-	36,37,54	1.20	6 (16%)	45,48,65	1.64	9 (20%)
30	CLA	c	510	-	65,73,73	1.49	12 (18%)	76,113,113	1.73	10 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
42	A86	20	210	-	44,50,50	4.07	23 (52%)	51,76,76	8.32	17 (33%)
39	DGD	h	102	-	63,63,67	0.94	3 (4%)	77,77,81	1.42	8 (10%)
42	A86	20	201	-	44,50,50	3.93	22 (50%)	51,76,76	7.88	19 (37%)
30	CLA	13	303	-	45,53,73	1.68	10 (22%)	52,89,113	1.81	9 (17%)
36	LMG	1	101	-	39,39,55	1.01	4 (10%)	47,47,63	1.18	4 (8%)
30	CLA	b	604	-	65,73,73	1.45	12 (18%)	76,113,113	1.69	15 (19%)
42	A86	12	316	-	44,50,50	3.97	23 (52%)	51,76,76	7.95	18 (35%)
34	BCT	A	407	29,1	2,3,3	1.26	0	2,3,3	3.94	2 (100%)
30	CLA	c	514	-	65,73,73	1.40	9 (13%)	76,113,113	1.62	8 (10%)
30	CLA	b	601	-	65,73,73	1.44	11 (16%)	76,113,113	1.50	7 (9%)
30	CLA	14	305	-	65,73,73	1.40	10 (15%)	76,113,113	1.62	11 (14%)
30	CLA	C	514	30	65,73,73	1.39	8 (12%)	76,113,113	1.63	9 (11%)
30	CLA	17	305	-	65,73,73	1.42	10 (15%)	76,113,113	1.53	10 (13%)
36	LMG	B	619	-	51,51,55	0.89	4 (7%)	59,59,63	1.43	8 (13%)
30	CLA	11	304	25	45,53,73	1.72	8 (17%)	52,89,113	2.02	11 (21%)
30	CLA	B	615	-	65,73,73	1.53	12 (18%)	76,113,113	1.44	11 (14%)
30	CLA	14	306	25	45,53,73	1.70	8 (17%)	52,89,113	2.05	11 (21%)
42	A86	15	310	-	44,50,50	3.92	23 (52%)	51,76,76	8.33	17 (33%)
39	DGD	J	101	-	63,63,67	1.11	10 (15%)	77,77,81	1.56	15 (19%)
42	A86	12	317	-	44,50,50	4.05	22 (50%)	51,76,76	7.80	19 (37%)
30	CLA	c	512	3	65,73,73	1.50	10 (15%)	76,113,113	1.61	13 (17%)
30	CLA	12	309	-	45,53,73	1.70	8 (17%)	52,89,113	1.71	7 (13%)
36	LMG	12	301	-	39,39,55	1.00	4 (10%)	47,47,63	1.21	5 (10%)
30	CLA	C	512	3	65,73,73	1.51	10 (15%)	76,113,113	1.61	12 (15%)
30	CLA	w	102	-	65,73,73	1.43	9 (13%)	76,113,113	1.47	10 (13%)
30	CLA	15	309	-	45,53,73	1.75	9 (20%)	52,89,113	1.61	7 (13%)
30	CLA	13	305	25	45,53,73	1.72	8 (17%)	52,89,113	2.03	11 (21%)
30	CLA	B	609	-	65,73,73	1.47	10 (15%)	76,113,113	1.51	9 (11%)
42	A86	14	315	-	44,50,50	4.01	23 (52%)	51,76,76	8.23	20 (39%)
30	CLA	16	301	-	65,73,73	1.45	9 (13%)	76,113,113	1.44	8 (10%)
33	SQD	A	406	-	53,54,54	0.97	6 (11%)	62,65,65	1.58	11 (17%)
30	CLA	B	606	-	65,73,73	1.58	12 (18%)	76,113,113	1.61	13 (17%)
30	CLA	B	608	-	65,73,73	1.50	10 (15%)	76,113,113	1.47	8 (10%)
30	CLA	c	506	-	65,73,73	1.45	11 (16%)	76,113,113	1.56	11 (14%)
30	CLA	18	312	-	45,53,73	1.74	9 (20%)	52,89,113	1.61	7 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
32	BCR	c	516	-	41,41,41	1.31	4 (9%)	56,56,56	1.40	9 (16%)
42	A86	13	314	-	44,50,50	4.01	23 (52%)	51,76,76	8.22	20 (39%)
36	LMG	M	102	30	40,40,55	0.96	3 (7%)	48,48,63	1.34	7 (14%)
30	CLA	14	311	-	45,53,73	1.75	9 (20%)	52,89,113	1.67	8 (15%)
30	CLA	A	402	-	65,73,73	1.45	8 (12%)	76,113,113	1.62	9 (11%)
42	A86	21	314	-	44,50,50	4.01	23 (52%)	51,76,76	7.82	18 (35%)
42	A86	20	211	-	44,50,50	3.89	23 (52%)	51,76,76	7.50	15 (29%)
32	BCR	F	101	-	41,41,41	1.16	3 (7%)	56,56,56	1.32	8 (14%)
30	CLA	b	609	-	65,73,73	1.47	10 (15%)	76,113,113	1.52	9 (11%)
35	LHG	B	622	-	48,48,48	0.74	1 (2%)	51,54,54	1.29	6 (11%)
30	CLA	C	511	-	65,73,73	1.45	12 (18%)	76,113,113	1.57	11 (14%)
30	CLA	b	605	-	65,73,73	1.48	10 (15%)	76,113,113	1.50	9 (11%)
30	CLA	B	613	-	65,73,73	1.43	11 (16%)	76,113,113	1.61	10 (13%)
42	A86	11	314	-	44,50,50	3.93	23 (52%)	51,76,76	7.98	19 (37%)
30	CLA	15	304	25	45,53,73	1.79	7 (15%)	52,89,113	1.79	9 (17%)
30	CLA	20	206	27	45,53,73	1.70	9 (20%)	52,89,113	1.80	10 (19%)
41	HEM	f	102	6,5	41,50,50	1.49	4 (9%)	45,82,82	1.26	5 (11%)
30	CLA	z	101	-	65,73,73	1.45	9 (13%)	76,113,113	1.49	7 (9%)
40	PL9	d	408	-	55,55,55	2.32	14 (25%)	68,69,69	1.48	14 (20%)
42	A86	19	312	-	44,50,50	4.00	21 (47%)	51,76,76	8.15	18 (35%)
42	A86	15	311	-	44,50,50	3.97	23 (52%)	51,76,76	7.94	18 (35%)
37	LMU	B	625	-	33,33,36	1.28	3 (9%)	44,44,47	1.57	8 (18%)
42	A86	21	312	-	44,50,50	3.82	21 (47%)	51,76,76	7.17	21 (41%)
32	BCR	C	515	-	41,41,41	1.30	4 (9%)	56,56,56	1.40	9 (16%)
30	CLA	15	301	25	65,73,73	1.48	9 (13%)	76,113,113	1.57	10 (13%)
30	CLA	11	307	25	65,73,73	1.47	10 (15%)	76,113,113	1.55	10 (13%)
42	A86	11	312	-	44,50,50	4.04	23 (52%)	51,76,76	7.82	20 (39%)
30	CLA	11	309	-	45,53,73	1.75	8 (17%)	52,89,113	1.66	7 (13%)
34	BCT	a	406	29,1	2,3,3	1.27	0	2,3,3	3.96	2 (100%)
35	LHG	A	408	-	45,45,48	0.78	2 (4%)	48,51,54	1.35	7 (14%)
42	A86	11	310	-	44,50,50	3.92	23 (52%)	51,76,76	8.33	17 (33%)
42	A86	21	310	-	44,50,50	3.88	22 (50%)	51,76,76	7.42	21 (41%)
30	CLA	16	302	25	65,73,73	1.49	10 (15%)	76,113,113	1.87	16 (21%)
33	SQD	B	621	-	36,37,54	1.20	6 (16%)	45,48,65	1.64	9 (20%)
30	CLA	13	310	-	45,53,73	1.75	9 (20%)	52,89,113	1.67	7 (13%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	CLA	B	605	-	65,73,73	1.49	10 (15%)	76,113,113	1.50	9 (11%)
32	BCR	Z	101	-	41,41,41	1.32	3 (7%)	56,56,56	1.41	8 (14%)
30	CLA	21	309	-	45,53,73	1.82	7 (15%)	52,89,113	1.72	11 (21%)
30	CLA	d	402	-	65,73,73	1.45	11 (16%)	76,113,113	1.50	8 (10%)
30	CLA	11	308	25	45,53,73	1.75	11 (24%)	52,89,113	1.75	9 (17%)
30	CLA	b	607	-	65,73,73	1.41	11 (16%)	76,113,113	1.55	7 (9%)
32	BCR	a	408	-	41,41,41	1.16	2 (4%)	56,56,56	1.29	5 (8%)
42	A86	12	315	-	44,50,50	3.92	23 (52%)	51,76,76	8.32	17 (33%)
30	CLA	18	310	25	65,73,73	1.47	9 (13%)	76,113,113	1.37	8 (10%)
42	A86	21	313	-	44,50,50	3.90	23 (52%)	51,76,76	7.52	22 (43%)
30	CLA	C	507	-	65,73,73	1.51	11 (16%)	76,113,113	1.55	10 (13%)
35	LHG	b	621	-	48,48,48	0.75	1 (2%)	51,54,54	1.29	6 (11%)
30	CLA	c	503	-	65,73,73	1.51	12 (18%)	76,113,113	1.52	12 (15%)
30	CLA	11	301	25	65,73,73	1.45	9 (13%)	76,113,113	1.68	8 (10%)
30	CLA	B	623	-	65,73,73	1.46	10 (15%)	76,113,113	1.58	14 (18%)
32	BCR	b	623	-	41,41,41	1.13	3 (7%)	56,56,56	1.28	7 (12%)
30	CLA	13	306	-	45,53,73	1.70	8 (17%)	52,89,113	1.70	7 (13%)
32	BCR	Y	101	-	41,41,41	1.27	4 (9%)	56,56,56	1.47	9 (16%)
32	BCR	m	103	-	41,41,41	1.31	2 (4%)	56,56,56	1.39	8 (14%)
42	A86	12	318	-	44,50,50	4.02	23 (52%)	51,76,76	8.23	20 (39%)
35	LHG	L	101	-	48,48,48	0.81	1 (2%)	51,54,54	1.27	5 (9%)
30	CLA	c	502	-	65,73,73	1.39	11 (16%)	76,113,113	1.65	12 (15%)
42	A86	11	313	-	44,50,50	4.02	23 (52%)	51,76,76	8.23	20 (39%)
30	CLA	Z	102	30,19	65,73,73	1.45	6 (9%)	76,113,113	1.41	8 (10%)
30	CLA	16	306	25	45,53,73	1.74	9 (20%)	52,89,113	1.78	8 (15%)
30	CLA	W	102	-	65,73,73	1.45	9 (13%)	76,113,113	1.47	10 (13%)
33	SQD	L	103	-	53,54,54	0.93	5 (9%)	62,65,65	1.84	12 (19%)
30	CLA	21	304	-	45,53,73	1.68	8 (17%)	52,89,113	1.65	6 (11%)
42	A86	11	316	-	44,50,50	4.00	23 (52%)	51,76,76	7.60	20 (39%)
31	PHO	A	403	-	51,69,69	1.24	8 (15%)	47,99,99	1.31	8 (17%)
40	PL9	D	404	4	55,55,55	1.35	6 (10%)	68,69,69	1.49	15 (22%)
39	DGD	C	516	-	63,63,67	1.05	7 (11%)	77,77,81	1.60	15 (19%)
42	A86	13	312	-	44,50,50	3.97	23 (52%)	51,76,76	7.95	18 (35%)
30	CLA	b	613	-	65,73,73	1.43	11 (16%)	76,113,113	1.63	9 (11%)
33	SQD	l	101	-	53,54,54	0.93	5 (9%)	62,65,65	1.84	12 (19%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	CLA	d	407	-	65,73,73	1.40	11 (16%)	76,113,113	1.60	7 (9%)
39	DGD	c	518	-	63,63,67	1.25	10 (15%)	77,77,81	1.52	16 (20%)
42	A86	18	315	-	44,50,50	4.02	23 (52%)	51,76,76	8.23	20 (39%)
30	CLA	c	511	-	65,73,73	1.45	12 (18%)	76,113,113	1.59	11 (14%)
30	CLA	w	103	-	65,73,73	1.50	6 (9%)	76,113,113	1.41	7 (9%)
30	CLA	18	304	-	45,53,73	1.72	7 (15%)	52,89,113	1.83	7 (13%)
30	CLA	19	308	-	45,53,73	1.69	8 (17%)	52,89,113	1.79	7 (13%)
42	A86	12	319	-	44,50,50	3.93	23 (52%)	51,76,76	7.96	18 (35%)
42	A86	17	314	-	44,50,50	4.01	23 (52%)	51,76,76	8.23	20 (39%)
32	BCR	A	409	-	41,41,41	1.16	2 (4%)	56,56,56	1.28	5 (8%)
30	CLA	12	311	25	65,73,73	1.47	10 (15%)	76,113,113	1.54	10 (13%)
30	CLA	16	307	25	45,53,73	1.76	10 (22%)	52,89,113	1.96	7 (13%)
35	LHG	d	409	-	48,48,48	0.81	1 (2%)	51,54,54	1.26	5 (9%)
33	SQD	a	405	-	53,54,54	0.96	5 (9%)	62,65,65	1.59	11 (17%)
30	CLA	c	509	-	65,73,73	1.47	11 (16%)	76,113,113	1.64	9 (11%)
32	BCR	B	618	-	41,41,41	1.24	2 (4%)	56,56,56	1.41	10 (17%)
30	CLA	B	603	-	65,73,73	1.42	11 (16%)	76,113,113	1.64	12 (15%)
42	A86	17	312	-	44,50,50	3.97	23 (52%)	51,76,76	7.96	18 (35%)
30	CLA	11	315	-	65,73,73	1.45	9 (13%)	76,113,113	1.48	8 (10%)
30	CLA	b	610	-	65,73,73	1.51	11 (16%)	76,113,113	1.51	8 (10%)
42	A86	16	312	-	44,50,50	4.05	22 (50%)	51,76,76	7.81	19 (37%)
30	CLA	21	305	28	45,53,73	1.75	6 (13%)	52,89,113	1.79	9 (17%)
30	CLA	D	405	-	65,73,73	1.48	10 (15%)	76,113,113	1.61	10 (13%)
30	CLA	d	401	-	65,73,73	1.50	12 (18%)	76,113,113	1.53	9 (11%)
39	DGD	C	517	-	63,63,67	1.25	10 (15%)	77,77,81	1.52	16 (20%)
30	CLA	C	505	-	65,73,73	1.44	12 (18%)	76,113,113	1.67	11 (14%)
30	CLA	15	305	-	45,53,73	1.76	6 (13%)	52,89,113	1.66	6 (11%)
38	OEX	c	501	1,3	0,15,15	-	-	-	-	-
30	CLA	14	310	25	45,53,73	1.76	11 (24%)	52,89,113	1.75	9 (17%)
30	CLA	14	307	-	45,53,73	1.72	8 (17%)	52,89,113	1.69	7 (13%)
35	LHG	L	102	-	48,48,48	0.76	1 (2%)	51,54,54	1.31	6 (11%)
30	CLA	11	305	-	45,53,73	1.71	8 (17%)	52,89,113	1.71	7 (13%)
30	CLA	17	309	25	45,53,73	1.78	10 (22%)	52,89,113	2.10	13 (25%)
42	A86	13	315	-	44,50,50	4.01	23 (52%)	51,76,76	7.60	20 (39%)
30	CLA	14	309	25	65,73,73	1.49	11 (16%)	76,113,113	1.55	10 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	CLA	13	302	25	65,73,73	1.46	9 (13%)	76,113,113	1.68	8 (10%)
42	A86	16	310	-	44,50,50	3.97	23 (52%)	51,76,76	8.08	20 (39%)
30	CLA	c	507	-	65,73,73	1.53	11 (16%)	76,113,113	1.55	11 (14%)
30	CLA	12	307	-	65,73,73	1.43	10 (15%)	76,113,113	1.59	10 (13%)
30	CLA	11	306	25	45,53,73	1.75	8 (17%)	52,89,113	1.82	7 (13%)
30	CLA	18	311	25	45,53,73	1.82	9 (20%)	52,89,113	1.81	11 (21%)
30	CLA	C	502	-	65,73,73	1.39	11 (16%)	76,113,113	1.66	11 (14%)
30	CLA	19	304	26	45,53,73	1.71	8 (17%)	52,89,113	1.82	11 (21%)
30	CLA	15	303	-	65,73,73	1.42	7 (10%)	76,113,113	1.54	10 (13%)
30	CLA	20	204	-	65,73,73	1.41	10 (15%)	76,113,113	1.52	10 (13%)
30	CLA	13	309	25	45,53,73	1.76	11 (24%)	52,89,113	1.76	9 (17%)
30	CLA	12	314	-	45,53,73	1.74	8 (17%)	52,89,113	1.67	7 (13%)
30	CLA	21	307	-	65,73,73	1.45	6 (9%)	76,113,113	1.41	7 (9%)
41	HEM	V	201	16	41,50,50	1.61	5 (12%)	45,82,82	1.27	4 (8%)
36	LMG	Q	301	-	51,51,55	0.96	5 (9%)	59,59,63	1.46	9 (15%)
30	CLA	14	308	25	45,53,73	1.75	8 (17%)	52,89,113	1.81	8 (15%)
42	A86	16	313	-	44,50,50	3.94	23 (52%)	51,76,76	7.96	18 (35%)
36	LMG	W	101	-	51,51,55	0.88	2 (3%)	59,59,63	1.40	7 (11%)
32	BCR	A	405	-	41,41,41	1.28	2 (4%)	56,56,56	1.40	6 (10%)
30	CLA	19	307	-	65,73,73	1.41	11 (16%)	76,113,113	1.48	8 (10%)
36	LMG	b	618	-	51,51,55	0.88	4 (7%)	59,59,63	1.43	9 (15%)
30	CLA	b	612	-	65,73,73	1.50	9 (13%)	76,113,113	1.77	10 (13%)
30	CLA	c	508	-	65,73,73	1.43	12 (18%)	76,113,113	1.67	12 (15%)
30	CLA	b	622	-	65,73,73	1.47	9 (13%)	76,113,113	1.59	14 (18%)
42	A86	21	311	-	44,50,50	3.89	23 (52%)	51,76,76	7.50	15 (29%)
30	CLA	a	402	-	65,73,73	1.45	8 (12%)	76,113,113	1.61	9 (11%)
30	CLA	21	303	-	65,73,73	1.44	8 (12%)	76,113,113	1.41	7 (9%)
30	CLA	C	508	-	65,73,73	1.43	12 (18%)	76,113,113	1.68	12 (15%)
30	CLA	b	614	-	65,73,73	1.39	10 (15%)	76,113,113	1.59	10 (13%)
30	CLA	C	513	-	65,73,73	1.44	9 (13%)	76,113,113	1.48	8 (10%)
32	BCR	B	616	-	41,41,41	1.31	2 (4%)	56,56,56	1.39	8 (14%)
36	LMG	m	102	30	40,40,55	0.96	3 (7%)	48,48,63	1.34	7 (14%)
36	LMG	d	410	-	51,51,55	0.90	3 (5%)	59,59,63	1.42	7 (11%)
30	CLA	17	310	-	45,53,73	1.75	9 (20%)	52,89,113	1.67	8 (15%)
41	HEM	F	102	6,5	41,50,50	1.51	4 (9%)	45,82,82	1.24	5 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
42	A86	13	301	-	44,50,50	3.99	23 (52%)	51,76,76	7.60	20 (39%)
30	CLA	20	202	-	65,73,73	1.43	7 (10%)	76,113,113	1.45	8 (10%)
30	CLA	15	306	25	45,53,73	1.77	7 (15%)	52,89,113	1.79	9 (17%)
42	A86	20	212	-	44,50,50	4.17	23 (52%)	51,76,76	8.24	15 (29%)
30	CLA	18	301	-	65,73,73	1.47	11 (16%)	76,113,113	1.45	11 (14%)
30	CLA	B	601	-	65,73,73	1.44	10 (15%)	76,113,113	1.50	8 (10%)
30	CLA	W	103	-	65,73,73	1.49	6 (9%)	76,113,113	1.41	7 (9%)
30	CLA	19	309	-	45,53,73	1.69	7 (15%)	52,89,113	1.79	9 (17%)
42	A86	13	313	-	44,50,50	4.05	23 (52%)	51,76,76	7.81	19 (37%)
30	CLA	14	303	25	65,73,73	1.44	8 (12%)	76,113,113	1.67	8 (10%)
30	CLA	20	209	30	65,73,73	1.47	9 (13%)	76,113,113	1.44	9 (11%)
42	A86	17	311	-	44,50,50	4.03	22 (50%)	51,76,76	8.34	19 (37%)
30	CLA	15	302	-	45,53,73	1.71	7 (15%)	52,89,113	1.88	9 (17%)
30	CLA	b	611	-	65,73,73	1.51	12 (18%)	76,113,113	1.58	11 (14%)
32	BCR	b	616	-	41,41,41	1.21	2 (4%)	56,56,56	1.37	9 (16%)
31	PHO	d	404	-	51,69,69	1.13	8 (15%)	47,99,99	1.28	6 (12%)
42	A86	15	313	-	44,50,50	4.02	23 (52%)	51,76,76	8.22	20 (39%)
30	CLA	17	308	25	65,73,73	1.49	10 (15%)	76,113,113	1.51	11 (14%)
42	A86	18	302	-	44,50,50	3.99	23 (52%)	51,76,76	7.60	20 (39%)
42	A86	15	312	-	44,50,50	4.04	23 (52%)	51,76,76	7.82	20 (39%)
30	CLA	16	305	25	45,53,73	1.70	8 (17%)	52,89,113	1.90	10 (19%)
30	CLA	16	304	-	65,73,73	1.44	10 (15%)	76,113,113	1.48	8 (10%)
30	CLA	C	520	-	65,73,73	1.41	9 (13%)	76,113,113	1.69	11 (14%)
42	A86	17	315	-	44,50,50	4.06	23 (52%)	51,76,76	8.44	16 (31%)
30	CLA	20	205	-	45,53,73	1.73	10 (22%)	52,89,113	1.80	9 (17%)
30	CLA	12	306	37	45,53,73	1.68	11 (24%)	52,89,113	1.78	9 (17%)
42	A86	18	313	-	44,50,50	3.93	23 (52%)	51,76,76	8.33	17 (33%)
40	PL9	D	407	-	55,55,55	2.32	15 (27%)	68,69,69	1.48	14 (20%)
42	A86	19	310	-	44,50,50	3.88	23 (52%)	51,76,76	7.70	16 (31%)
30	CLA	c	504	-	65,73,73	1.47	11 (16%)	76,113,113	1.51	11 (14%)
39	DGD	H	102	-	63,63,67	0.93	3 (4%)	77,77,81	1.42	8 (10%)
30	CLA	19	302	-	45,53,73	1.67	9 (20%)	52,89,113	1.89	10 (19%)
30	CLA	14	304	-	45,53,73	1.70	10 (22%)	52,89,113	1.80	9 (17%)
30	CLA	B	607	-	65,73,73	1.41	11 (16%)	76,113,113	1.56	7 (9%)
32	BCR	H	101	-	41,41,41	1.27	3 (7%)	56,56,56	1.31	7 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	CLA	12	312	-	65,73,73	1.46	9 (13%)	76,113,113	1.49	8 (10%)
30	CLA	m	101	36,12	65,73,73	1.42	10 (15%)	76,113,113	1.41	6 (7%)
32	BCR	h	101	-	41,41,41	1.27	4 (9%)	56,56,56	1.32	8 (14%)
30	CLA	18	307	-	45,53,73	1.75	7 (15%)	52,89,113	1.63	8 (15%)
30	CLA	11	302	-	45,53,73	1.69	11 (24%)	52,89,113	1.78	9 (17%)
32	BCR	b	617	-	41,41,41	1.23	2 (4%)	56,56,56	1.41	10 (17%)
41	HEM	v	201	16	41,50,50	1.60	5 (12%)	45,82,82	1.27	2 (4%)
30	CLA	11	303	-	65,73,73	1.41	10 (15%)	76,113,113	1.58	9 (11%)
42	A86	12	304	-	44,50,50	4.00	23 (52%)	51,76,76	7.61	21 (41%)
30	CLA	19	303	-	65,73,73	1.46	10 (15%)	76,113,113	1.55	9 (11%)
32	BCR	f	101	-	41,41,41	1.16	3 (7%)	56,56,56	1.32	8 (14%)
30	CLA	12	308	25	45,53,73	1.71	8 (17%)	52,89,113	2.04	11 (21%)
32	BCR	c	520	-	41,41,41	1.27	3 (7%)	56,56,56	1.47	10 (17%)
32	BCR	c	521	-	41,41,41	1.27	2 (4%)	56,56,56	1.37	6 (10%)
30	CLA	12	310	25	45,53,73	1.77	8 (17%)	52,89,113	1.82	8 (15%)
30	CLA	B	612	-	65,73,73	1.50	9 (13%)	76,113,113	1.78	10 (13%)
30	CLA	12	303	-	65,73,73	1.45	9 (13%)	76,113,113	1.49	8 (10%)
30	CLA	15	308	25	45,53,73	1.76	10 (22%)	52,89,113	1.75	10 (19%)
30	CLA	a	403	-	65,73,73	1.48	10 (15%)	76,113,113	1.52	9 (11%)
30	CLA	B	602	-	65,73,73	1.47	10 (15%)	76,113,113	1.55	11 (14%)
42	A86	14	316	-	44,50,50	3.94	23 (52%)	51,76,76	7.97	18 (35%)
42	A86	16	311	-	44,50,50	3.97	23 (52%)	51,76,76	7.94	18 (35%)
30	CLA	13	304	-	65,73,73	1.41	10 (15%)	76,113,113	1.59	10 (13%)
30	CLA	16	309	-	45,53,73	1.74	10 (22%)	52,89,113	1.61	9 (17%)
39	DGD	c	517	-	63,63,67	1.06	8 (12%)	77,77,81	1.60	15 (19%)
30	CLA	C	509	-	65,73,73	1.48	11 (16%)	76,113,113	1.64	9 (11%)
30	CLA	d	406	-	65,73,73	1.48	10 (15%)	76,113,113	1.61	11 (14%)
30	CLA	D	406	-	65,73,73	1.40	10 (15%)	76,113,113	1.60	7 (9%)
32	BCR	B	624	-	41,41,41	1.13	3 (7%)	56,56,56	1.30	7 (12%)
30	CLA	17	306	25	45,53,73	1.70	7 (15%)	52,89,113	1.97	10 (19%)
35	LHG	a	407	-	45,45,48	0.78	2 (4%)	48,51,54	1.35	7 (14%)
32	BCR	c	515	-	41,41,41	1.34	3 (7%)	56,56,56	1.41	8 (14%)
30	CLA	19	305	-	45,53,73	1.72	10 (22%)	52,89,113	1.69	6 (11%)
30	CLA	12	313	25	45,53,73	1.75	11 (24%)	52,89,113	1.76	9 (17%)
30	CLA	D	401	-	65,73,73	1.50	12 (18%)	76,113,113	1.52	9 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	CLA	21	306	-	65,73,73	1.48	9 (13%)	76,113,113	1.44	9 (11%)
30	CLA	20	207	-	45,53,73	1.73	9 (20%)	52,89,113	1.74	10 (19%)
31	PHO	d	403	-	51,69,69	1.24	9 (17%)	47,99,99	1.31	8 (17%)
30	CLA	b	608	-	65,73,73	1.50	10 (15%)	76,113,113	1.47	8 (10%)
42	A86	14	301	-	44,50,50	3.93	23 (52%)	51,76,76	7.97	19 (37%)
30	CLA	16	308	25	45,53,73	1.78	9 (20%)	52,89,113	1.71	11 (21%)
30	CLA	b	602	-	65,73,73	1.48	10 (15%)	76,113,113	1.54	12 (15%)
30	CLA	17	307	25	45,53,73	1.80	9 (20%)	52,89,113	1.77	13 (25%)
38	OEX	C	501	1,3	0,15,15	-	-	-	-	-
30	CLA	C	510	-	65,73,73	1.48	12 (18%)	76,113,113	1.73	10 (13%)
42	A86	14	314	-	44,50,50	4.05	22 (50%)	51,76,76	7.81	19 (37%)
30	CLA	18	308	25	45,53,73	1.78	7 (15%)	52,89,113	1.72	8 (15%)
42	A86	14	312	-	44,50,50	3.93	23 (52%)	51,76,76	8.32	17 (33%)
39	DGD	j	101	-	63,63,67	1.10	10 (15%)	77,77,81	1.55	15 (19%)
36	LMG	c	519	-	51,51,55	0.96	5 (9%)	59,59,63	1.46	9 (15%)
35	LHG	l	102	-	48,48,48	0.76	1 (2%)	51,54,54	1.31	6 (11%)
30	CLA	19	301	-	65,73,73	1.48	10 (15%)	76,113,113	1.49	11 (14%)
30	CLA	B	610	-	65,73,73	1.50	11 (16%)	76,113,113	1.51	8 (10%)
30	CLA	b	603	-	65,73,73	1.43	11 (16%)	76,113,113	1.64	13 (17%)
32	BCR	a	404	-	41,41,41	1.29	2 (4%)	56,56,56	1.39	6 (10%)
30	CLA	13	307	25	45,53,73	1.76	7 (15%)	52,89,113	1.83	7 (13%)
30	CLA	c	513	-	65,73,73	1.45	10 (15%)	76,113,113	1.48	8 (10%)
36	LMG	D	408	-	51,51,55	0.90	3 (5%)	59,59,63	1.42	7 (11%)
30	CLA	21	301	28	65,73,73	1.48	8 (12%)	76,113,113	1.43	7 (9%)
30	CLA	D	402	-	65,73,73	1.44	11 (16%)	76,113,113	1.50	8 (10%)
30	CLA	M	101	36,12	65,73,73	1.42	10 (15%)	76,113,113	1.41	6 (7%)
42	A86	20	213	-	44,50,50	4.01	23 (52%)	51,76,76	7.82	18 (35%)
36	LMG	b	619	-	51,51,55	0.99	5 (9%)	59,59,63	1.44	8 (13%)
30	CLA	C	506	-	65,73,73	1.45	11 (16%)	76,113,113	1.56	12 (15%)
30	CLA	15	307	25	65,73,73	1.47	10 (15%)	76,113,113	1.63	11 (14%)
30	CLA	b	615	-	65,73,73	1.52	12 (18%)	76,113,113	1.44	11 (14%)
30	CLA	18	303	25	65,73,73	1.47	10 (15%)	76,113,113	1.48	8 (10%)
42	A86	17	316	-	44,50,50	3.94	23 (52%)	51,76,76	7.98	18 (35%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
42	A86	15	315	-	-	15/34/90/90	0/3/3/3
36	LMG	w	101	-	-	28/46/66/70	0/1/1/1
30	CLA	C	504	-	1/1/15/20	17/37/115/115	-
30	CLA	18	306	25	-	9/13/91/115	-
30	CLA	14	302	-	1/1/15/20	11/37/115/115	-
37	LMU	12	302	30,25	-	7/18/58/61	0/2/2/2
30	CLA	13	308	25	1/1/15/20	14/37/115/115	-
32	BCR	B	617	-	-	9/29/63/63	0/2/2/2
30	CLA	b	606	-	1/1/15/20	7/37/115/115	-
42	A86	13	311	-	-	8/34/90/90	0/3/3/3
42	A86	14	313	-	-	3/34/90/90	0/3/3/3
42	A86	18	314	-	-	3/34/90/90	0/3/3/3
30	CLA	16	303	-	1/1/11/20	6/13/91/115	-
40	PL9	d	405	4	-	17/53/73/73	0/1/1/1
30	CLA	21	308	-	1/1/11/20	8/13/91/115	-
30	CLA	B	611	-	1/1/15/20	12/37/115/115	-
42	A86	17	313	-	-	9/34/90/90	0/3/3/3
30	CLA	17	301	-	1/1/15/20	14/37/115/115	-
30	CLA	B	614	-	1/1/15/20	8/37/115/115	-
30	CLA	C	519	-	-	21/37/115/115	-
30	CLA	19	306	-	1/1/11/20	8/13/91/115	-
42	A86	19	311	-	-	17/34/90/90	0/3/3/3
30	CLA	A	404	-	1/1/15/20	10/37/115/115	-
30	CLA	21	302	-	-	7/13/91/115	-
30	CLA	18	305	-	1/1/15/20	19/37/115/115	-
30	CLA	20	203	30	1/1/11/20	5/13/91/115	-
30	CLA	20	208	-	-	8/13/91/115	-
42	A86	17	302	-	-	16/34/90/90	1/3/3/3
30	CLA	B	604	-	1/1/15/20	14/37/115/115	-
30	CLA	17	304	-	-	6/13/91/115	-
42	A86	11	311	-	-	3/34/90/90	0/3/3/3
30	CLA	17	303	25	1/1/15/20	13/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
42	A86	15	316	-	-	16/34/90/90	0/3/3/3
42	A86	15	314	-	-	7/34/90/90	0/3/3/3
30	CLA	C	503	-	1/1/15/20	11/37/115/115	-
31	PHO	D	403	-	-	8/37/103/103	0/5/6/6
30	CLA	18	309	25	1/1/15/20	16/37/115/115	-
32	BCR	C	518	-	-	8/29/63/63	0/2/2/2
36	LMG	B	620	-	-	20/46/66/70	0/1/1/1
30	CLA	12	305	25	1/1/15/20	11/37/115/115	-
30	CLA	c	505	-	1/1/15/20	17/37/115/115	-
33	SQD	b	620	-	-	9/32/52/69	0/1/1/1
30	CLA	c	510	-	1/1/15/20	12/37/115/115	-
42	A86	20	210	-	-	14/34/90/90	0/3/3/3
39	DGD	h	102	-	-	24/51/91/95	0/2/2/2
42	A86	20	201	-	-	12/34/90/90	0/3/3/3
30	CLA	13	303	-	1/1/11/20	5/13/91/115	-
36	LMG	1	101	-	-	14/34/54/70	0/1/1/1
30	CLA	b	604	-	1/1/15/20	14/37/115/115	-
42	A86	12	316	-	-	3/34/90/90	0/3/3/3
30	CLA	c	514	-	1/1/15/20	13/37/115/115	-
30	CLA	b	601	-	1/1/15/20	18/37/115/115	-
30	CLA	14	305	-	1/1/15/20	13/37/115/115	-
30	CLA	C	514	30	1/1/15/20	13/37/115/115	-
30	CLA	17	305	-	1/1/15/20	19/37/115/115	-
36	LMG	B	619	-	-	18/46/66/70	0/1/1/1
30	CLA	11	304	25	1/1/11/20	9/13/91/115	-
30	CLA	B	615	-	1/1/15/20	13/37/115/115	-
30	CLA	14	306	25	1/1/11/20	9/13/91/115	-
42	A86	15	310	-	-	8/34/90/90	0/3/3/3
39	DGD	J	101	-	-	15/51/91/95	0/2/2/2
42	A86	12	317	-	-	9/34/90/90	0/3/3/3
30	CLA	c	512	3	1/1/15/20	8/37/115/115	-
30	CLA	12	309	-	1/1/11/20	8/13/91/115	-
36	LMG	12	301	-	-	17/34/54/70	0/1/1/1
30	CLA	C	512	3	1/1/15/20	8/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CLA	w	102	-	1/1/15/20	14/37/115/115	-
30	CLA	15	309	-	1/1/11/20	4/13/91/115	-
30	CLA	13	305	25	1/1/11/20	9/13/91/115	-
30	CLA	B	609	-	1/1/15/20	8/37/115/115	-
42	A86	14	315	-	-	10/34/90/90	0/3/3/3
30	CLA	16	301	-	1/1/15/20	10/37/115/115	-
33	SQD	A	406	-	-	14/49/69/69	0/1/1/1
30	CLA	B	606	-	1/1/15/20	7/37/115/115	-
30	CLA	B	608	-	1/1/15/20	8/37/115/115	-
30	CLA	c	506	-	1/1/15/20	16/37/115/115	-
30	CLA	18	312	-	1/1/11/20	4/13/91/115	-
32	BCR	c	516	-	-	10/29/63/63	0/2/2/2
42	A86	13	314	-	-	10/34/90/90	0/3/3/3
36	LMG	M	102	30	-	10/35/55/70	0/1/1/1
30	CLA	14	311	-	1/1/11/20	6/13/91/115	-
30	CLA	A	402	-	1/1/15/20	7/37/115/115	-
42	A86	21	314	-	-	12/34/90/90	0/3/3/3
42	A86	20	211	-	-	8/34/90/90	0/3/3/3
32	BCR	F	101	-	-	15/29/63/63	0/2/2/2
30	CLA	b	609	-	1/1/15/20	8/37/115/115	-
35	LHG	B	622	-	-	20/53/53/53	-
30	CLA	C	511	-	1/1/15/20	12/37/115/115	-
30	CLA	b	605	-	1/1/15/20	17/37/115/115	-
30	CLA	B	613	-	1/1/15/20	8/37/115/115	-
42	A86	11	314	-	-	7/34/90/90	0/3/3/3
30	CLA	15	304	25	-	7/13/91/115	-
30	CLA	20	206	27	1/1/11/20	7/13/91/115	-
41	HEM	f	102	6,5	-	7/12/54/54	-
30	CLA	z	101	-	-	21/37/115/115	-
40	PL9	d	408	-	-	13/53/73/73	0/1/1/1
42	A86	19	312	-	-	8/34/90/90	0/3/3/3
42	A86	15	311	-	-	3/34/90/90	0/3/3/3
37	LMU	B	625	-	-	7/18/58/61	0/2/2/2
42	A86	21	312	-	-	7/34/90/90	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	BCR	C	515	-	-	10/29/63/63	0/2/2/2
30	CLA	15	301	25	1/1/15/20	10/37/115/115	-
30	CLA	11	307	25	1/1/15/20	14/37/115/115	-
42	A86	11	312	-	-	8/34/90/90	0/3/3/3
30	CLA	11	309	-	1/1/11/20	6/13/91/115	-
35	LHG	A	408	-	-	23/50/50/53	-
42	A86	11	310	-	-	8/34/90/90	0/3/3/3
42	A86	21	310	-	-	9/34/90/90	0/3/3/3
30	CLA	16	302	25	1/1/15/20	15/37/115/115	-
33	SQD	B	621	-	-	9/32/52/69	0/1/1/1
30	CLA	13	310	-	1/1/11/20	6/13/91/115	-
30	CLA	B	605	-	1/1/15/20	17/37/115/115	-
32	BCR	Z	101	-	-	15/29/63/63	0/2/2/2
30	CLA	21	309	-	1/1/11/20	6/13/91/115	-
30	CLA	d	402	-	1/1/15/20	13/37/115/115	-
30	CLA	11	308	25	-	6/13/91/115	-
30	CLA	b	607	-	1/1/15/20	12/37/115/115	-
32	BCR	a	408	-	-	9/29/63/63	0/2/2/2
42	A86	12	315	-	-	8/34/90/90	0/3/3/3
30	CLA	18	310	25	1/1/15/20	10/37/115/115	-
42	A86	21	313	-	-	16/34/90/90	0/3/3/3
30	CLA	C	507	-	1/1/15/20	17/37/115/115	-
35	LHG	b	621	-	-	20/53/53/53	-
30	CLA	c	503	-	1/1/15/20	11/37/115/115	-
30	CLA	11	301	25	1/1/15/20	11/37/115/115	-
30	CLA	B	623	-	1/1/15/20	15/37/115/115	-
32	BCR	b	623	-	-	18/29/63/63	0/2/2/2
30	CLA	13	306	-	1/1/11/20	8/13/91/115	-
32	BCR	Y	101	-	-	16/29/63/63	0/2/2/2
32	BCR	m	103	-	-	8/29/63/63	0/2/2/2
42	A86	12	318	-	-	10/34/90/90	0/3/3/3
35	LHG	L	101	-	-	29/53/53/53	-
30	CLA	c	502	-	1/1/15/20	14/37/115/115	-
42	A86	11	313	-	-	10/34/90/90	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CLA	Z	102	30,19	1/1/15/20	15/37/115/115	-
30	CLA	16	306	25	1/1/11/20	7/13/91/115	-
30	CLA	W	102	-	1/1/15/20	14/37/115/115	-
33	SQD	L	103	-	-	21/49/69/69	0/1/1/1
30	CLA	21	304	-	1/1/11/20	8/13/91/115	-
42	A86	11	316	-	-	16/34/90/90	0/3/3/3
31	PHO	A	403	-	-	12/37/103/103	0/5/6/6
40	PL9	D	404	4	-	17/53/73/73	0/1/1/1
39	DGD	C	516	-	-	19/51/91/95	0/2/2/2
42	A86	13	312	-	-	3/34/90/90	0/3/3/3
30	CLA	b	613	-	1/1/15/20	8/37/115/115	-
33	SQD	l	101	-	-	21/49/69/69	0/1/1/1
30	CLA	d	407	-	1/1/15/20	4/37/115/115	-
39	DGD	c	518	-	-	22/51/91/95	0/2/2/2
42	A86	18	315	-	-	10/34/90/90	0/3/3/3
30	CLA	c	511	-	1/1/15/20	12/37/115/115	-
30	CLA	w	103	-	-	19/37/115/115	-
30	CLA	18	304	-	1/1/11/20	5/13/91/115	-
30	CLA	19	308	-	1/1/11/20	3/13/91/115	-
42	A86	12	319	-	-	7/34/90/90	0/3/3/3
42	A86	17	314	-	-	10/34/90/90	0/3/3/3
32	BCR	A	409	-	-	9/29/63/63	0/2/2/2
30	CLA	12	311	25	1/1/15/20	14/37/115/115	-
30	CLA	16	307	25	1/1/11/20	9/13/91/115	-
35	LHG	d	409	-	-	29/53/53/53	-
33	SQD	a	405	-	-	14/49/69/69	0/1/1/1
30	CLA	c	509	-	1/1/15/20	12/37/115/115	-
32	BCR	B	618	-	-	9/29/63/63	0/2/2/2
30	CLA	B	603	-	1/1/15/20	10/37/115/115	-
42	A86	17	312	-	-	3/34/90/90	0/3/3/3
30	CLA	11	315	-	1/1/15/20	11/37/115/115	-
30	CLA	b	610	-	1/1/15/20	14/37/115/115	-
42	A86	16	312	-	-	8/34/90/90	0/3/3/3
30	CLA	21	305	28	1/1/11/20	9/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CLA	D	405	-	1/1/15/20	8/37/115/115	-
30	CLA	d	401	-	1/1/15/20	12/37/115/115	-
39	DGD	C	517	-	-	22/51/91/95	0/2/2/2
30	CLA	C	505	-	1/1/15/20	17/37/115/115	-
30	CLA	15	305	-	1/1/11/20	8/13/91/115	-
30	CLA	14	310	25	-	6/13/91/115	-
30	CLA	14	307	-	1/1/11/20	8/13/91/115	-
35	LHG	L	102	-	-	22/53/53/53	-
30	CLA	11	305	-	1/1/11/20	8/13/91/115	-
30	CLA	17	309	25	1/1/11/20	4/13/91/115	-
42	A86	13	315	-	-	16/34/90/90	0/3/3/3
30	CLA	14	309	25	1/1/15/20	14/37/115/115	-
30	CLA	13	302	25	1/1/15/20	12/37/115/115	-
42	A86	16	310	-	-	12/34/90/90	0/3/3/3
30	CLA	c	507	-	1/1/15/20	17/37/115/115	-
30	CLA	12	307	-	1/1/15/20	13/37/115/115	-
30	CLA	11	306	25	1/1/11/20	8/13/91/115	-
30	CLA	18	311	25	1/1/11/20	8/13/91/115	-
30	CLA	C	502	-	1/1/15/20	14/37/115/115	-
30	CLA	19	304	26	1/1/11/20	9/13/91/115	-
30	CLA	15	303	-	1/1/15/20	15/37/115/115	-
30	CLA	20	204	-	1/1/15/20	13/37/115/115	-
30	CLA	13	309	25	-	6/13/91/115	-
30	CLA	12	314	-	1/1/11/20	6/13/91/115	-
30	CLA	21	307	-	1/1/15/20	11/37/115/115	-
41	HEM	V	201	16	-	0/12/54/54	-
36	LMG	Q	301	-	-	22/46/66/70	0/1/1/1
30	CLA	14	308	25	1/1/11/20	8/13/91/115	-
42	A86	16	313	-	-	7/34/90/90	0/3/3/3
36	LMG	W	101	-	-	28/46/66/70	0/1/1/1
32	BCR	A	405	-	-	12/29/63/63	0/2/2/2
30	CLA	19	307	-	1/1/15/20	15/37/115/115	-
36	LMG	b	618	-	-	18/46/66/70	0/1/1/1
30	CLA	b	612	-	1/1/15/20	13/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CLA	c	508	-	1/1/15/20	18/37/115/115	-
30	CLA	b	622	-	1/1/15/20	15/37/115/115	-
42	A86	21	311	-	-	8/34/90/90	0/3/3/3
30	CLA	a	402	-	1/1/15/20	7/37/115/115	-
30	CLA	21	303	-	1/1/15/20	17/37/115/115	-
30	CLA	C	508	-	1/1/15/20	18/37/115/115	-
30	CLA	b	614	-	1/1/15/20	8/37/115/115	-
30	CLA	C	513	-	1/1/15/20	16/37/115/115	-
32	BCR	B	616	-	-	8/29/63/63	0/2/2/2
36	LMG	m	102	30	-	10/35/55/70	0/1/1/1
36	LMG	d	410	-	-	14/46/66/70	0/1/1/1
30	CLA	17	310	-	1/1/11/20	7/13/91/115	-
41	HEM	F	102	6,5	-	7/12/54/54	-
42	A86	13	301	-	-	15/34/90/90	0/3/3/3
30	CLA	20	202	-	-	19/37/115/115	-
30	CLA	15	306	25	1/1/11/20	8/13/91/115	-
42	A86	20	212	-	-	11/34/90/90	0/3/3/3
30	CLA	18	301	-	1/1/15/20	11/37/115/115	-
30	CLA	B	601	-	1/1/15/20	18/37/115/115	-
30	CLA	19	309	-	1/1/11/20	8/13/91/115	-
30	CLA	W	103	-	-	19/37/115/115	-
42	A86	13	313	-	-	9/34/90/90	0/3/3/3
30	CLA	14	303	25	1/1/15/20	12/37/115/115	-
30	CLA	20	209	30	1/1/15/20	11/37/115/115	-
42	A86	17	311	-	-	13/34/90/90	0/3/3/3
30	CLA	15	302	-	1/1/11/20	8/13/91/115	-
30	CLA	b	611	-	1/1/15/20	12/37/115/115	-
32	BCR	b	616	-	-	9/29/63/63	0/2/2/2
31	PHO	d	404	-	-	8/37/103/103	0/5/6/6
42	A86	15	313	-	-	10/34/90/90	0/3/3/3
30	CLA	17	308	25	1/1/15/20	17/37/115/115	-
42	A86	18	302	-	-	15/34/90/90	0/3/3/3
42	A86	15	312	-	-	8/34/90/90	0/3/3/3
30	CLA	16	305	25	-	8/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CLA	16	304	-	1/1/15/20	15/37/115/115	-
30	CLA	C	520	-	1/1/15/20	14/37/115/115	-
42	A86	17	315	-	-	13/34/90/90	0/3/3/3
30	CLA	20	205	-	-	9/13/91/115	-
30	CLA	12	306	37	1/1/11/20	4/13/91/115	-
42	A86	18	313	-	-	8/34/90/90	0/3/3/3
40	PL9	D	407	-	-	13/53/73/73	0/1/1/1
42	A86	19	310	-	-	11/34/90/90	0/3/3/3
30	CLA	c	504	-	1/1/15/20	17/37/115/115	-
39	DGD	H	102	-	-	24/51/91/95	0/2/2/2
30	CLA	19	302	-	1/1/11/20	4/13/91/115	-
30	CLA	14	304	-	1/1/11/20	4/13/91/115	-
30	CLA	B	607	-	1/1/15/20	12/37/115/115	-
32	BCR	H	101	-	-	7/29/63/63	0/2/2/2
30	CLA	12	312	-	1/1/15/20	11/37/115/115	-
30	CLA	m	101	36,12	1/1/15/20	19/37/115/115	-
32	BCR	h	101	-	-	7/29/63/63	0/2/2/2
30	CLA	18	307	-	1/1/11/20	6/13/91/115	-
30	CLA	11	302	-	1/1/11/20	5/13/91/115	-
32	BCR	b	617	-	-	9/29/63/63	0/2/2/2
41	HEM	v	201	16	-	0/12/54/54	-
30	CLA	11	303	-	1/1/15/20	13/37/115/115	-
42	A86	12	304	-	-	16/34/90/90	0/3/3/3
30	CLA	19	303	-	1/1/15/20	15/37/115/115	-
32	BCR	f	101	-	-	15/29/63/63	0/2/2/2
30	CLA	12	308	25	1/1/11/20	9/13/91/115	-
32	BCR	c	520	-	-	16/29/63/63	0/2/2/2
32	BCR	c	521	-	-	8/29/63/63	0/2/2/2
30	CLA	12	310	25	1/1/11/20	8/13/91/115	-
30	CLA	B	612	-	1/1/15/20	13/37/115/115	-
30	CLA	12	303	-	1/1/15/20	11/37/115/115	-
30	CLA	15	308	25	1/1/11/20	6/13/91/115	-
30	CLA	a	403	-	1/1/15/20	10/37/115/115	-
30	CLA	B	602	-	1/1/15/20	13/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
42	A86	14	316	-	-	7/34/90/90	0/3/3/3
42	A86	16	311	-	-	3/34/90/90	0/3/3/3
30	CLA	13	304	-	1/1/15/20	13/37/115/115	-
30	CLA	16	309	-	1/1/11/20	5/13/91/115	-
39	DGD	c	517	-	-	19/51/91/95	0/2/2/2
30	CLA	C	509	-	1/1/15/20	12/37/115/115	-
30	CLA	d	406	-	1/1/15/20	8/37/115/115	-
30	CLA	D	406	-	1/1/15/20	4/37/115/115	-
32	BCR	B	624	-	-	18/29/63/63	0/2/2/2
30	CLA	17	306	25	-	8/13/91/115	-
35	LHG	a	407	-	-	23/50/50/53	-
32	BCR	c	515	-	-	15/29/63/63	0/2/2/2
30	CLA	19	305	-	1/1/11/20	7/13/91/115	-
30	CLA	12	313	25	-	6/13/91/115	-
30	CLA	D	401	-	1/1/15/20	12/37/115/115	-
30	CLA	21	306	-	1/1/15/20	14/37/115/115	-
30	CLA	20	207	-	1/1/11/20	7/13/91/115	-
31	PHO	d	403	-	-	12/37/103/103	0/5/6/6
30	CLA	b	608	-	1/1/15/20	8/37/115/115	-
42	A86	14	301	-	-	7/34/90/90	0/3/3/3
30	CLA	16	308	25	-	7/13/91/115	-
30	CLA	b	602	-	1/1/15/20	13/37/115/115	-
30	CLA	17	307	25	1/1/11/20	7/13/91/115	-
30	CLA	C	510	-	1/1/15/20	12/37/115/115	-
42	A86	14	314	-	-	8/34/90/90	0/3/3/3
30	CLA	18	308	25	1/1/11/20	8/13/91/115	-
42	A86	14	312	-	-	8/34/90/90	0/3/3/3
39	DGD	j	101	-	-	15/51/91/95	0/2/2/2
36	LMG	c	519	-	-	22/46/66/70	0/1/1/1
35	LHG	l	102	-	-	22/53/53/53	-
30	CLA	19	301	-	-	12/37/115/115	-
30	CLA	B	610	-	1/1/15/20	14/37/115/115	-
30	CLA	b	603	-	1/1/15/20	10/37/115/115	-
32	BCR	a	404	-	-	12/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	CLA	13	307	25	1/1/11/20	8/13/91/115	-
30	CLA	c	513	-	1/1/15/20	16/37/115/115	-
36	LMG	D	408	-	-	14/46/66/70	0/1/1/1
30	CLA	21	301	28	-	14/37/115/115	-
30	CLA	D	402	-	1/1/15/20	13/37/115/115	-
30	CLA	M	101	36,12	1/1/15/20	19/37/115/115	-
42	A86	20	213	-	-	12/34/90/90	0/3/3/3
36	LMG	b	619	-	-	20/46/66/70	0/1/1/1
30	CLA	C	506	-	1/1/15/20	16/37/115/115	-
30	CLA	15	307	25	1/1/15/20	11/37/115/115	-
30	CLA	b	615	-	1/1/15/20	13/37/115/115	-
30	CLA	18	303	25	1/1/15/20	14/37/115/115	-
42	A86	17	316	-	-	7/34/90/90	0/3/3/3

All (3422) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	19	311	A86	C14-C13	14.34	1.68	1.51
42	11	313	A86	C14-C13	14.10	1.68	1.51
42	12	318	A86	C14-C13	14.06	1.68	1.51
42	13	314	A86	C14-C13	14.04	1.68	1.51
42	18	315	A86	C14-C13	14.01	1.68	1.51
42	15	313	A86	C14-C13	14.01	1.68	1.51
42	17	314	A86	C14-C13	13.97	1.68	1.51
42	14	315	A86	C14-C13	13.96	1.68	1.51
42	16	312	A86	C14-C13	13.94	1.68	1.51
42	17	313	A86	C14-C13	13.94	1.68	1.51
42	13	313	A86	C14-C13	13.93	1.68	1.51
42	12	317	A86	C14-C13	13.92	1.68	1.51
42	15	312	A86	C14-C13	13.91	1.68	1.51
42	20	212	A86	C14-C13	13.90	1.68	1.51
42	14	314	A86	C14-C13	13.90	1.68	1.51
42	14	316	A86	C14-C13	13.86	1.68	1.51
42	17	316	A86	C14-C13	13.86	1.68	1.51
42	11	314	A86	C14-C13	13.85	1.68	1.51
42	15	314	A86	C14-C13	13.85	1.68	1.51
42	11	312	A86	C14-C13	13.85	1.68	1.51
42	16	313	A86	C14-C13	13.85	1.68	1.51
42	12	319	A86	C14-C13	13.84	1.68	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	14	301	A86	C14-C13	13.84	1.68	1.51
42	14	312	A86	C14-C13	13.81	1.67	1.51
42	11	310	A86	C14-C13	13.80	1.67	1.51
42	18	313	A86	C14-C13	13.80	1.67	1.51
42	13	311	A86	C14-C13	13.77	1.67	1.51
42	13	315	A86	C14-C13	13.76	1.67	1.51
42	15	310	A86	C14-C13	13.76	1.67	1.51
42	18	302	A86	C14-C13	13.75	1.67	1.51
42	15	315	A86	C14-C13	13.74	1.67	1.51
42	12	315	A86	C14-C13	13.73	1.67	1.51
42	18	314	A86	C14-C13	13.73	1.67	1.51
42	20	210	A86	C14-C13	13.71	1.67	1.51
42	12	304	A86	C14-C13	13.71	1.67	1.51
42	16	311	A86	C14-C13	13.70	1.67	1.51
42	12	316	A86	C14-C13	13.69	1.67	1.51
42	11	316	A86	C14-C13	13.67	1.67	1.51
42	17	312	A86	C14-C13	13.67	1.67	1.51
42	13	301	A86	C14-C13	13.66	1.67	1.51
42	15	316	A86	C14-C13	13.66	1.67	1.51
42	17	315	A86	C14-C13	13.64	1.67	1.51
42	14	313	A86	C14-C13	13.63	1.67	1.51
42	13	312	A86	C14-C13	13.62	1.67	1.51
42	15	311	A86	C14-C13	13.58	1.67	1.51
42	11	311	A86	C14-C13	13.56	1.67	1.51
42	20	213	A86	C14-C13	13.51	1.67	1.51
42	21	314	A86	C14-C13	13.51	1.67	1.51
42	16	310	A86	C14-C13	13.44	1.67	1.51
42	17	311	A86	C14-C13	13.33	1.67	1.51
42	19	312	A86	C14-C13	13.24	1.67	1.51
42	17	302	A86	C14-C13	13.12	1.67	1.51
42	21	311	A86	C14-C13	13.03	1.67	1.51
42	20	211	A86	C14-C13	12.94	1.66	1.51
42	21	313	A86	C14-C13	12.93	1.66	1.51
42	21	312	A86	C14-C13	12.92	1.66	1.51
42	19	310	A86	C14-C13	12.89	1.66	1.51
42	21	310	A86	C14-C13	12.74	1.66	1.51
42	20	201	A86	C14-C13	11.39	1.65	1.51
42	19	311	A86	C30-C29	9.23	1.47	1.32
42	20	212	A86	C30-C29	9.23	1.47	1.32
42	19	312	A86	C30-C29	8.92	1.46	1.32
42	15	315	A86	C30-C29	8.91	1.46	1.32
42	11	316	A86	C30-C29	8.89	1.46	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	13	301	A86	C30-C29	8.87	1.46	1.32
42	12	304	A86	C30-C29	8.86	1.46	1.32
42	13	315	A86	C30-C29	8.86	1.46	1.32
42	15	316	A86	C30-C29	8.85	1.46	1.32
42	18	302	A86	C30-C29	8.82	1.46	1.32
42	17	315	A86	C30-C29	8.80	1.46	1.32
42	21	310	A86	C30-C29	8.80	1.46	1.32
42	20	201	A86	C30-C29	8.79	1.46	1.32
42	17	311	A86	C30-C29	8.77	1.46	1.32
42	20	210	A86	C30-C29	8.75	1.46	1.32
42	17	312	A86	C30-C29	8.73	1.46	1.32
42	14	314	A86	C30-C29	8.71	1.46	1.32
42	13	312	A86	C30-C29	8.71	1.46	1.32
42	21	313	A86	C30-C29	8.70	1.46	1.32
42	16	312	A86	C30-C29	8.69	1.46	1.32
42	12	317	A86	C30-C29	8.69	1.46	1.32
42	20	213	A86	C30-C29	8.68	1.46	1.32
42	15	312	A86	C30-C29	8.67	1.46	1.32
42	11	312	A86	C30-C29	8.67	1.46	1.32
42	18	314	A86	C30-C29	8.67	1.46	1.32
42	17	313	A86	C30-C29	8.66	1.46	1.32
42	15	311	A86	C30-C29	8.66	1.46	1.32
42	21	314	A86	C30-C29	8.66	1.46	1.32
42	11	311	A86	C30-C29	8.66	1.46	1.32
42	17	302	A86	C30-C29	8.65	1.46	1.32
42	12	316	A86	C30-C29	8.64	1.46	1.32
42	20	211	A86	C30-C29	8.63	1.46	1.32
42	13	313	A86	C30-C29	8.62	1.46	1.32
42	14	313	A86	C30-C29	8.62	1.46	1.32
42	21	311	A86	C30-C29	8.60	1.46	1.32
42	15	313	A86	C30-C29	8.59	1.46	1.32
42	18	315	A86	C30-C29	8.58	1.46	1.32
42	12	318	A86	C30-C29	8.57	1.46	1.32
42	17	314	A86	C30-C29	8.57	1.46	1.32
42	16	311	A86	C30-C29	8.57	1.46	1.32
42	16	310	A86	C30-C29	8.57	1.46	1.32
42	14	315	A86	C30-C29	8.54	1.46	1.32
42	13	314	A86	C30-C29	8.53	1.46	1.32
42	14	312	A86	C30-C29	8.52	1.46	1.32
42	18	313	A86	C30-C29	8.52	1.46	1.32
42	11	313	A86	C30-C29	8.52	1.46	1.32
42	19	310	A86	C30-C29	8.52	1.46	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	12	315	A86	C30-C29	8.49	1.46	1.32
42	11	310	A86	C30-C29	8.48	1.46	1.32
42	13	311	A86	C30-C29	8.45	1.46	1.32
42	15	310	A86	C30-C29	8.44	1.46	1.32
42	17	316	A86	C30-C29	8.37	1.45	1.32
42	14	301	A86	C30-C29	8.35	1.45	1.32
42	14	316	A86	C30-C29	8.32	1.45	1.32
42	16	313	A86	C30-C29	8.30	1.45	1.32
42	15	314	A86	C30-C29	8.30	1.45	1.32
42	12	319	A86	C30-C29	8.30	1.45	1.32
42	21	312	A86	C30-C29	8.29	1.45	1.32
42	11	314	A86	C30-C29	8.29	1.45	1.32
40	D	407	PL9	C7-C3	-7.79	1.43	1.51
42	20	201	A86	C4-C5	7.72	1.67	1.43
30	21	309	CLA	C4B-NB	7.69	1.42	1.35
42	20	201	A86	C8-C6	7.62	1.62	1.45
30	18	311	CLA	C4B-NB	7.61	1.42	1.35
40	d	408	PL9	C7-C3	-7.59	1.43	1.51
42	20	212	A86	C4-C5	7.57	1.66	1.43
30	15	304	CLA	C4B-NB	7.55	1.41	1.35
42	19	311	A86	C4-C5	7.55	1.66	1.43
42	20	210	A86	C4-C5	7.53	1.66	1.43
42	20	212	A86	C8-C6	7.52	1.62	1.45
42	17	315	A86	C4-C5	7.51	1.66	1.43
42	13	315	A86	C4-C5	7.50	1.66	1.43
42	15	315	A86	C4-C5	7.49	1.66	1.43
42	12	304	A86	C4-C5	7.49	1.66	1.43
42	13	301	A86	C4-C5	7.49	1.66	1.43
42	15	316	A86	C4-C5	7.48	1.66	1.43
42	19	312	A86	C4-C5	7.48	1.66	1.43
42	11	316	A86	C4-C5	7.47	1.66	1.43
42	12	304	A86	C8-C6	7.46	1.62	1.45
42	18	302	A86	C4-C5	7.46	1.66	1.43
42	11	316	A86	C8-C6	7.43	1.61	1.45
42	15	315	A86	C8-C6	7.43	1.61	1.45
42	13	315	A86	C8-C6	7.42	1.61	1.45
42	17	302	A86	C4-C5	7.42	1.66	1.43
42	16	312	A86	C4-C5	7.42	1.66	1.43
42	15	316	A86	C8-C6	7.41	1.61	1.45
42	13	313	A86	C4-C5	7.41	1.66	1.43
42	14	314	A86	C4-C5	7.40	1.66	1.43
42	20	213	A86	C4-C5	7.40	1.66	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	21	314	A86	C4-C5	7.40	1.66	1.43
30	w	103	CLA	C4B-NB	7.39	1.41	1.35
42	17	313	A86	C4-C5	7.39	1.66	1.43
42	18	302	A86	C8-C6	7.39	1.61	1.45
42	13	301	A86	C8-C6	7.39	1.61	1.45
42	12	317	A86	C4-C5	7.39	1.66	1.43
42	19	312	A86	C8-C6	7.38	1.61	1.45
42	15	312	A86	C4-C5	7.38	1.66	1.43
42	17	311	A86	C4-C5	7.38	1.66	1.43
42	11	312	A86	C4-C5	7.38	1.66	1.43
30	17	307	CLA	C4B-NB	7.37	1.41	1.35
42	16	310	A86	C4-C5	7.36	1.66	1.43
42	20	211	A86	C4-C5	7.36	1.66	1.43
42	21	310	A86	C4-C5	7.35	1.66	1.43
30	12	310	CLA	C4B-NB	7.35	1.41	1.35
42	11	314	A86	C4-C5	7.33	1.66	1.43
42	21	311	A86	C4-C5	7.32	1.66	1.43
42	14	301	A86	C4-C5	7.32	1.66	1.43
42	18	314	A86	C4-C5	7.32	1.66	1.43
42	16	311	A86	C4-C5	7.32	1.66	1.43
42	18	315	A86	C4-C5	7.31	1.66	1.43
42	17	314	A86	C4-C5	7.31	1.66	1.43
42	17	315	A86	C8-C6	7.31	1.61	1.45
42	16	313	A86	C4-C5	7.31	1.66	1.43
42	13	312	A86	C4-C5	7.31	1.66	1.43
42	15	311	A86	C4-C5	7.31	1.66	1.43
42	11	313	A86	C4-C5	7.30	1.66	1.43
42	14	315	A86	C4-C5	7.30	1.66	1.43
42	13	314	A86	C4-C5	7.29	1.66	1.43
42	19	310	A86	C4-C5	7.29	1.66	1.43
42	11	311	A86	C4-C5	7.29	1.66	1.43
42	15	313	A86	C4-C5	7.29	1.66	1.43
42	15	314	A86	C4-C5	7.29	1.66	1.43
42	12	319	A86	C4-C5	7.29	1.66	1.43
42	12	318	A86	C4-C5	7.29	1.66	1.43
42	17	312	A86	C4-C5	7.29	1.66	1.43
42	14	316	A86	C4-C5	7.28	1.66	1.43
42	18	313	A86	C4-C5	7.28	1.66	1.43
42	14	313	A86	C4-C5	7.28	1.66	1.43
42	17	313	A86	C8-C6	7.28	1.61	1.45
30	14	308	CLA	C4B-NB	7.28	1.41	1.35
42	17	315	A86	C19-C20	7.28	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	12	316	A86	C4-C5	7.28	1.66	1.43
42	17	302	A86	C8-C6	7.28	1.61	1.45
30	11	306	CLA	C4B-NB	7.27	1.41	1.35
42	17	316	A86	C4-C5	7.27	1.66	1.43
42	17	311	A86	C8-C6	7.27	1.61	1.45
42	21	313	A86	C4-C5	7.26	1.65	1.43
42	13	313	A86	C8-C6	7.26	1.61	1.45
42	14	314	A86	C8-C6	7.26	1.61	1.45
42	15	312	A86	C8-C6	7.26	1.61	1.45
30	W	103	CLA	C4B-NB	7.25	1.41	1.35
42	14	312	A86	C4-C5	7.25	1.65	1.43
42	16	312	A86	C8-C6	7.25	1.61	1.45
30	13	307	CLA	C4B-NB	7.25	1.41	1.35
42	15	310	A86	C4-C5	7.25	1.65	1.43
42	12	315	A86	C4-C5	7.24	1.65	1.43
42	12	317	A86	C8-C6	7.24	1.61	1.45
42	11	310	A86	C4-C5	7.24	1.65	1.43
30	15	306	CLA	C4B-NB	7.24	1.41	1.35
30	21	305	CLA	C4B-NB	7.23	1.41	1.35
42	19	311	A86	C8-C6	7.23	1.61	1.45
30	15	305	CLA	C4B-NB	7.23	1.41	1.35
42	20	210	A86	C8-C6	7.23	1.61	1.45
42	11	312	A86	C8-C6	7.23	1.61	1.45
42	13	311	A86	C4-C5	7.23	1.65	1.43
30	21	301	CLA	C4B-NB	7.22	1.41	1.35
42	21	312	A86	C4-C5	7.22	1.65	1.43
30	18	308	CLA	C4B-NB	7.20	1.41	1.35
30	B	606	CLA	C4B-NB	7.18	1.41	1.35
30	21	307	CLA	C4B-NB	7.17	1.41	1.35
42	21	314	A86	C8-C6	7.17	1.61	1.45
42	14	315	A86	C8-C6	7.16	1.61	1.45
42	20	213	A86	C8-C6	7.15	1.61	1.45
42	18	315	A86	C8-C6	7.15	1.61	1.45
42	20	210	A86	C19-C20	7.14	1.62	1.52
42	15	313	A86	C8-C6	7.14	1.61	1.45
42	18	315	A86	C19-C20	7.13	1.62	1.52
42	15	313	A86	C19-C20	7.13	1.62	1.52
42	20	212	A86	C19-C20	7.12	1.62	1.52
42	14	315	A86	C19-C20	7.11	1.62	1.52
30	20	203	CLA	C4B-NB	7.11	1.41	1.35
42	13	314	A86	C19-C20	7.11	1.62	1.52
42	11	313	A86	C8-C6	7.10	1.61	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	313	A86	C19-C20	7.10	1.62	1.52
30	18	309	CLA	C4B-NB	7.10	1.41	1.35
30	b	606	CLA	C4B-NB	7.10	1.41	1.35
30	18	306	CLA	C4B-NB	7.09	1.41	1.35
42	21	312	A86	C8-C6	7.09	1.61	1.45
42	12	318	A86	C19-C20	7.09	1.62	1.52
42	17	314	A86	C8-C6	7.09	1.61	1.45
42	13	314	A86	C8-C6	7.08	1.61	1.45
42	17	314	A86	C19-C20	7.08	1.62	1.52
42	16	311	A86	C8-C6	7.08	1.61	1.45
42	12	318	A86	C8-C6	7.07	1.61	1.45
42	17	311	A86	C19-C20	7.07	1.62	1.52
30	18	307	CLA	C4B-NB	7.06	1.41	1.35
42	11	311	A86	C8-C6	7.06	1.61	1.45
30	15	301	CLA	C4B-NB	7.06	1.41	1.35
42	21	313	A86	C8-C6	7.05	1.61	1.45
42	17	312	A86	C8-C6	7.05	1.61	1.45
42	12	316	A86	C8-C6	7.04	1.61	1.45
30	17	310	CLA	C4B-NB	7.04	1.41	1.35
42	13	312	A86	C8-C6	7.04	1.61	1.45
40	d	408	PL9	C3-C4	-7.04	1.37	1.49
30	13	310	CLA	C4B-NB	7.03	1.41	1.35
30	21	308	CLA	C4B-NB	7.02	1.41	1.35
42	15	311	A86	C8-C6	7.02	1.61	1.45
42	16	310	A86	C8-C6	7.02	1.61	1.45
42	21	310	A86	C8-C6	7.01	1.61	1.45
42	14	316	A86	C8-C6	7.01	1.61	1.45
30	17	309	CLA	C4B-NB	7.01	1.41	1.35
42	14	313	A86	C8-C6	7.00	1.61	1.45
42	16	313	A86	C8-C6	7.00	1.61	1.45
42	15	314	A86	C8-C6	7.00	1.61	1.45
30	16	308	CLA	C4B-NB	6.99	1.41	1.35
42	11	314	A86	C8-C6	6.97	1.60	1.45
42	20	211	A86	C8-C6	6.96	1.60	1.45
42	14	301	A86	C8-C6	6.96	1.60	1.45
30	Z	102	CLA	C4B-NB	6.96	1.41	1.35
42	17	316	A86	C8-C6	6.96	1.60	1.45
42	12	319	A86	C8-C6	6.95	1.60	1.45
30	b	608	CLA	C4B-NB	6.95	1.41	1.35
30	15	302	CLA	C4B-NB	6.95	1.41	1.35
40	D	407	PL9	C3-C4	-6.95	1.38	1.49
42	15	310	A86	C8-C6	6.94	1.60	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	18	314	A86	C8-C6	6.94	1.60	1.45
42	13	311	A86	C8-C6	6.94	1.60	1.45
30	11	309	CLA	C4B-NB	6.93	1.41	1.35
30	B	608	CLA	C4B-NB	6.93	1.41	1.35
42	21	311	A86	C8-C6	6.93	1.60	1.45
42	11	310	A86	C8-C6	6.92	1.60	1.45
30	21	302	CLA	C4B-NB	6.91	1.41	1.35
30	18	304	CLA	C4B-NB	6.91	1.41	1.35
42	19	310	A86	C8-C6	6.91	1.60	1.45
30	12	314	CLA	C4B-NB	6.91	1.41	1.35
42	18	313	A86	C19-C20	6.91	1.61	1.52
42	20	201	A86	C19-C20	6.91	1.61	1.52
30	15	308	CLA	C4B-NB	6.90	1.41	1.35
42	15	311	A86	C19-C20	6.90	1.61	1.52
42	20	212	A86	C25-C26	6.89	1.64	1.43
30	18	305	CLA	C4B-NB	6.89	1.41	1.35
42	12	315	A86	C8-C6	6.88	1.60	1.45
42	20	201	A86	C25-C26	6.88	1.64	1.43
42	15	310	A86	C19-C20	6.87	1.61	1.52
42	14	312	A86	C8-C6	6.87	1.60	1.45
30	15	309	CLA	C4B-NB	6.86	1.41	1.35
30	21	306	CLA	C4B-NB	6.86	1.41	1.35
30	18	301	CLA	C4B-NB	6.86	1.41	1.35
42	12	316	A86	C19-C20	6.86	1.61	1.52
30	14	311	CLA	C4B-NB	6.85	1.41	1.35
42	18	313	A86	C8-C6	6.85	1.60	1.45
42	11	311	A86	C19-C20	6.85	1.61	1.52
30	20	209	CLA	C4B-NB	6.84	1.41	1.35
30	20	202	CLA	C4B-NB	6.84	1.41	1.35
30	19	303	CLA	C4B-NB	6.84	1.41	1.35
42	16	310	A86	C19-C20	6.84	1.61	1.52
42	17	312	A86	C25-C26	6.83	1.64	1.43
42	14	312	A86	C19-C20	6.82	1.61	1.52
42	12	315	A86	C19-C20	6.82	1.61	1.52
42	13	312	A86	C25-C26	6.82	1.64	1.43
42	13	311	A86	C19-C20	6.82	1.61	1.52
42	11	311	A86	C25-C26	6.81	1.64	1.43
30	15	303	CLA	C4B-NB	6.81	1.41	1.35
42	17	312	A86	C19-C20	6.81	1.61	1.52
42	16	311	A86	C19-C20	6.81	1.61	1.52
42	16	311	A86	C25-C26	6.80	1.64	1.43
42	11	310	A86	C19-C20	6.80	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	14	313	A86	C25-C26	6.80	1.64	1.43
30	18	312	CLA	C4B-NB	6.80	1.41	1.35
42	13	312	A86	C19-C20	6.79	1.61	1.52
42	12	316	A86	C25-C26	6.79	1.64	1.43
42	21	310	A86	C25-C26	6.79	1.64	1.43
42	18	314	A86	C25-C26	6.79	1.64	1.43
42	15	311	A86	C25-C26	6.78	1.64	1.43
42	19	312	A86	C25-C26	6.77	1.64	1.43
42	19	311	A86	C19-C20	6.77	1.61	1.52
42	17	313	A86	C25-C26	6.76	1.64	1.43
42	17	311	A86	C25-C26	6.76	1.64	1.43
42	13	313	A86	C25-C26	6.76	1.64	1.43
42	15	316	A86	C25-C26	6.76	1.64	1.43
42	20	213	A86	C19-C20	6.75	1.61	1.52
42	15	315	A86	C25-C26	6.75	1.64	1.43
30	16	301	CLA	C4B-NB	6.75	1.41	1.35
42	21	314	A86	C19-C20	6.75	1.61	1.52
42	20	210	A86	C25-C26	6.75	1.64	1.43
42	19	312	A86	C19-C20	6.75	1.61	1.52
42	14	314	A86	C25-C26	6.74	1.64	1.43
42	12	317	A86	C25-C26	6.74	1.64	1.43
42	12	304	A86	C25-C26	6.74	1.64	1.43
42	11	316	A86	C25-C26	6.74	1.64	1.43
42	11	312	A86	C25-C26	6.73	1.64	1.43
30	20	208	CLA	C4B-NB	6.73	1.41	1.35
42	16	312	A86	C25-C26	6.73	1.64	1.43
42	18	302	A86	C25-C26	6.73	1.64	1.43
42	13	315	A86	C25-C26	6.73	1.64	1.43
42	19	311	A86	C25-C26	6.72	1.64	1.43
42	18	314	A86	C19-C20	6.72	1.61	1.52
30	18	310	CLA	C4B-NB	6.72	1.41	1.35
42	14	313	A86	C19-C20	6.72	1.61	1.52
30	19	304	CLA	C4B-NB	6.72	1.41	1.35
42	15	312	A86	C25-C26	6.72	1.64	1.43
42	13	301	A86	C25-C26	6.71	1.64	1.43
30	c	507	CLA	C4B-NB	6.70	1.41	1.35
42	21	311	A86	C25-C26	6.70	1.64	1.43
30	18	303	CLA	C4B-NB	6.70	1.41	1.35
42	20	211	A86	C25-C26	6.69	1.64	1.43
30	15	307	CLA	C4B-NB	6.69	1.41	1.35
30	14	307	CLA	C4B-NB	6.68	1.41	1.35
30	17	303	CLA	C4B-NB	6.68	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	14	302	CLA	C4B-NB	6.68	1.41	1.35
42	17	315	A86	C25-C26	6.66	1.64	1.43
42	19	310	A86	C25-C26	6.66	1.64	1.43
30	11	305	CLA	C4B-NB	6.65	1.41	1.35
30	20	205	CLA	C4B-NB	6.65	1.41	1.35
30	12	312	CLA	C4B-NB	6.65	1.41	1.35
42	16	310	A86	C25-C26	6.64	1.64	1.43
42	20	213	A86	C25-C26	6.64	1.64	1.43
42	17	302	A86	C19-C20	6.64	1.61	1.52
42	17	302	A86	C25-C26	6.63	1.64	1.43
42	21	314	A86	C25-C26	6.62	1.64	1.43
30	20	207	CLA	C4B-NB	6.62	1.41	1.35
42	17	316	A86	C25-C26	6.61	1.63	1.43
30	B	609	CLA	C4B-NB	6.61	1.41	1.35
30	13	306	CLA	C4B-NB	6.61	1.41	1.35
42	21	312	A86	C25-C26	6.60	1.63	1.43
30	12	309	CLA	C4B-NB	6.60	1.41	1.35
42	16	313	A86	C25-C26	6.60	1.63	1.43
42	21	313	A86	C25-C26	6.60	1.63	1.43
42	14	301	A86	C25-C26	6.60	1.63	1.43
42	14	316	A86	C25-C26	6.59	1.63	1.43
42	11	314	A86	C25-C26	6.59	1.63	1.43
42	12	319	A86	C25-C26	6.59	1.63	1.43
30	C	519	CLA	C4B-NB	6.59	1.41	1.35
30	11	315	CLA	C4B-NB	6.59	1.41	1.35
42	15	314	A86	C25-C26	6.59	1.63	1.43
42	15	312	A86	C19-C20	6.59	1.61	1.52
42	11	313	A86	C25-C26	6.59	1.63	1.43
42	11	310	A86	C25-C26	6.58	1.63	1.43
42	15	313	A86	C25-C26	6.58	1.63	1.43
30	12	303	CLA	C4B-NB	6.57	1.41	1.35
42	16	312	A86	C19-C20	6.57	1.61	1.52
42	17	314	A86	C25-C26	6.57	1.63	1.43
42	12	318	A86	C25-C26	6.56	1.63	1.43
42	15	310	A86	C25-C26	6.56	1.63	1.43
42	13	313	A86	C19-C20	6.56	1.61	1.52
42	17	313	A86	C19-C20	6.56	1.61	1.52
42	21	313	A86	C19-C20	6.56	1.61	1.52
42	18	315	A86	C25-C26	6.55	1.63	1.43
42	12	315	A86	C25-C26	6.55	1.63	1.43
42	14	314	A86	C19-C20	6.55	1.61	1.52
42	11	312	A86	C19-C20	6.55	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	18	313	A86	C25-C26	6.54	1.63	1.43
42	14	312	A86	C25-C26	6.54	1.63	1.43
42	12	317	A86	C19-C20	6.53	1.61	1.52
42	14	315	A86	C25-C26	6.53	1.63	1.43
42	13	314	A86	C25-C26	6.53	1.63	1.43
42	13	311	A86	C25-C26	6.53	1.63	1.43
30	21	303	CLA	C4B-NB	6.53	1.41	1.35
40	d	408	PL9	C6-C1	-6.52	1.36	1.48
30	21	304	CLA	C4B-NB	6.51	1.41	1.35
30	C	507	CLA	C4B-NB	6.50	1.41	1.35
30	b	609	CLA	C4B-NB	6.50	1.41	1.35
40	D	407	PL9	C6-C1	-6.48	1.37	1.48
30	16	307	CLA	C4B-NB	6.47	1.41	1.35
30	16	305	CLA	C4B-NB	6.46	1.41	1.35
30	16	306	CLA	C4B-NB	6.46	1.41	1.35
30	11	307	CLA	C4B-NB	6.46	1.41	1.35
30	W	102	CLA	C4B-NB	6.46	1.41	1.35
30	12	313	CLA	C4B-NB	6.43	1.40	1.35
30	14	304	CLA	C4B-NB	6.42	1.40	1.35
30	14	310	CLA	C4B-NB	6.41	1.40	1.35
30	13	305	CLA	C4B-NB	6.41	1.40	1.35
30	13	309	CLA	C4B-NB	6.41	1.40	1.35
42	16	313	A86	C19-C20	6.41	1.61	1.52
30	16	309	CLA	C4B-NB	6.40	1.40	1.35
30	b	622	CLA	C4B-NB	6.39	1.40	1.35
30	19	305	CLA	C4B-NB	6.39	1.40	1.35
42	12	319	A86	C19-C20	6.39	1.61	1.52
42	17	316	A86	C19-C20	6.39	1.61	1.52
30	z	101	CLA	C4B-NB	6.39	1.40	1.35
30	11	308	CLA	C4B-NB	6.39	1.40	1.35
30	19	309	CLA	C4B-NB	6.39	1.40	1.35
42	19	310	A86	C19-C20	6.39	1.61	1.52
42	14	316	A86	C19-C20	6.37	1.61	1.52
30	16	303	CLA	C4B-NB	6.37	1.40	1.35
42	20	211	A86	C19-C20	6.37	1.61	1.52
30	12	307	CLA	C4B-NB	6.36	1.40	1.35
30	c	513	CLA	C4B-NB	6.36	1.40	1.35
30	20	204	CLA	C4B-NB	6.35	1.40	1.35
30	12	311	CLA	C4B-NB	6.34	1.40	1.35
30	16	304	CLA	C4B-NB	6.33	1.40	1.35
30	11	304	CLA	C4B-NB	6.32	1.40	1.35
30	12	308	CLA	C4B-NB	6.32	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	12	305	CLA	C4B-NB	6.32	1.40	1.35
30	b	602	CLA	C4B-NB	6.32	1.40	1.35
30	b	605	CLA	C4B-NB	6.31	1.40	1.35
30	20	206	CLA	C4B-NB	6.30	1.40	1.35
42	15	314	A86	C19-C20	6.30	1.61	1.52
30	17	305	CLA	C4B-NB	6.30	1.40	1.35
42	14	301	A86	C19-C20	6.29	1.61	1.52
42	11	314	A86	C19-C20	6.28	1.61	1.52
30	B	623	CLA	C4B-NB	6.28	1.40	1.35
30	13	302	CLA	C4B-NB	6.28	1.40	1.35
30	13	304	CLA	C4B-NB	6.28	1.40	1.35
30	B	605	CLA	C4B-NB	6.28	1.40	1.35
30	14	305	CLA	C4B-NB	6.28	1.40	1.35
42	21	311	A86	C19-C20	6.28	1.61	1.52
30	w	102	CLA	C4B-NB	6.27	1.40	1.35
30	11	301	CLA	C4B-NB	6.27	1.40	1.35
30	16	302	CLA	C4B-NB	6.27	1.40	1.35
30	14	309	CLA	C4B-NB	6.27	1.40	1.35
30	B	602	CLA	C4B-NB	6.26	1.40	1.35
30	11	302	CLA	C4B-NB	6.26	1.40	1.35
30	19	308	CLA	C4B-NB	6.26	1.40	1.35
30	12	306	CLA	C4B-NB	6.26	1.40	1.35
30	13	308	CLA	C4B-NB	6.25	1.40	1.35
30	C	504	CLA	C4B-NB	6.25	1.40	1.35
30	11	303	CLA	C4B-NB	6.24	1.40	1.35
30	17	306	CLA	C4B-NB	6.23	1.40	1.35
30	C	513	CLA	C4B-NB	6.22	1.40	1.35
30	c	504	CLA	C4B-NB	6.22	1.40	1.35
30	17	304	CLA	C4B-NB	6.21	1.40	1.35
30	C	512	CLA	C4B-NB	6.19	1.40	1.35
30	14	306	CLA	C4B-NB	6.19	1.40	1.35
30	c	512	CLA	C4B-NB	6.18	1.40	1.35
42	21	310	A86	C19-C20	6.18	1.60	1.52
30	d	406	CLA	C4B-NB	6.17	1.40	1.35
30	14	303	CLA	C4B-NB	6.16	1.40	1.35
30	19	301	CLA	C4B-NB	6.15	1.40	1.35
30	13	303	CLA	C4B-NB	6.15	1.40	1.35
41	V	201	HEM	C3C-C2C	-6.12	1.31	1.40
42	13	315	A86	C19-C20	6.11	1.60	1.52
30	19	306	CLA	C4B-NB	6.07	1.40	1.35
41	v	201	HEM	C3C-C2C	-6.06	1.32	1.40
42	13	301	A86	C19-C20	6.06	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	15	315	A86	C19-C20	6.05	1.60	1.52
42	12	304	A86	C19-C20	6.05	1.60	1.52
30	C	520	CLA	C4B-NB	6.05	1.40	1.35
30	B	615	CLA	C4B-NB	6.04	1.40	1.35
42	18	302	A86	C19-C20	6.04	1.60	1.52
30	b	601	CLA	C4B-NB	6.03	1.40	1.35
30	D	405	CLA	C4B-NB	6.03	1.40	1.35
30	19	307	CLA	C4B-NB	6.01	1.40	1.35
30	b	615	CLA	C4B-NB	6.00	1.40	1.35
42	15	316	A86	C19-C20	5.99	1.60	1.52
42	11	316	A86	C19-C20	5.97	1.60	1.52
30	A	402	CLA	C4B-NB	5.97	1.40	1.35
30	B	601	CLA	C4B-NB	5.96	1.40	1.35
30	17	301	CLA	C4B-NB	5.96	1.40	1.35
30	C	506	CLA	C4B-NB	5.91	1.40	1.35
30	b	610	CLA	C4B-NB	5.90	1.40	1.35
30	m	101	CLA	C4B-NB	5.87	1.40	1.35
30	c	506	CLA	C4B-NB	5.85	1.40	1.35
30	M	101	CLA	C4B-NB	5.85	1.40	1.35
42	21	312	A86	C19-C20	5.84	1.60	1.52
30	a	402	CLA	C4B-NB	5.84	1.40	1.35
30	19	302	CLA	C4B-NB	5.84	1.40	1.35
30	d	407	CLA	C4B-NB	5.84	1.40	1.35
30	D	406	CLA	C4B-NB	5.83	1.40	1.35
30	B	610	CLA	C4B-NB	5.78	1.40	1.35
30	A	404	CLA	C4B-NB	5.77	1.40	1.35
30	a	403	CLA	C4B-NB	5.76	1.40	1.35
40	d	405	PL9	C7-C3	-5.75	1.45	1.51
30	b	611	CLA	C4B-NB	5.74	1.40	1.35
40	D	404	PL9	C7-C3	-5.73	1.45	1.51
30	d	402	CLA	C4B-NB	5.72	1.40	1.35
30	b	607	CLA	C4B-NB	5.72	1.40	1.35
30	b	603	CLA	C4B-NB	5.68	1.40	1.35
30	b	614	CLA	C4B-NB	5.67	1.40	1.35
30	B	607	CLA	C4B-NB	5.67	1.40	1.35
30	c	514	CLA	C4B-NB	5.66	1.40	1.35
30	B	611	CLA	C4B-NB	5.65	1.40	1.35
30	D	402	CLA	C4B-NB	5.65	1.40	1.35
30	C	514	CLA	C4B-NB	5.62	1.40	1.35
30	B	603	CLA	C4B-NB	5.60	1.40	1.35
30	B	614	CLA	C4B-NB	5.58	1.40	1.35
30	D	401	CLA	C4B-NB	5.48	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	c	505	CLA	C4B-NB	5.47	1.40	1.35
30	C	509	CLA	C4B-NB	5.46	1.40	1.35
30	C	505	CLA	C4B-NB	5.46	1.40	1.35
30	c	502	CLA	C4B-NB	5.44	1.40	1.35
30	17	308	CLA	C4B-NB	5.41	1.40	1.35
30	d	401	CLA	C4B-NB	5.40	1.40	1.35
30	c	510	CLA	C4B-NB	5.40	1.40	1.35
30	b	612	CLA	C4B-NB	5.40	1.40	1.35
30	C	508	CLA	C4B-NB	5.39	1.40	1.35
30	C	502	CLA	C4B-NB	5.37	1.40	1.35
30	c	509	CLA	C4B-NB	5.35	1.40	1.35
30	c	508	CLA	C4B-NB	5.34	1.40	1.35
30	B	612	CLA	C4B-NB	5.32	1.40	1.35
30	C	510	CLA	C4B-NB	5.32	1.40	1.35
42	20	201	A86	C9-C8	5.19	1.47	1.34
30	C	503	CLA	C4B-NB	5.07	1.39	1.35
42	12	317	A86	C9-C8	4.99	1.47	1.34
42	19	311	A86	C9-C8	4.97	1.47	1.34
42	20	212	A86	C9-C8	4.96	1.47	1.34
42	16	312	A86	C9-C8	4.95	1.47	1.34
42	13	313	A86	C9-C8	4.95	1.47	1.34
42	11	312	A86	C9-C8	4.94	1.47	1.34
42	17	313	A86	C9-C8	4.94	1.47	1.34
42	17	311	A86	C9-C8	4.93	1.47	1.34
42	14	314	A86	C9-C8	4.93	1.47	1.34
42	13	301	A86	C9-C8	4.91	1.47	1.34
42	15	312	A86	C9-C8	4.91	1.47	1.34
30	B	613	CLA	C4B-NB	4.90	1.39	1.35
42	20	212	A86	C26-C27	4.89	1.42	1.35
42	17	315	A86	C9-C8	4.89	1.47	1.34
42	13	315	A86	C9-C8	4.88	1.47	1.34
42	18	302	A86	C9-C8	4.87	1.47	1.34
30	b	613	CLA	C4B-NB	4.87	1.39	1.35
42	15	315	A86	C9-C8	4.86	1.47	1.34
42	11	316	A86	C9-C8	4.86	1.47	1.34
42	12	304	A86	C9-C8	4.84	1.47	1.34
42	15	316	A86	C9-C8	4.84	1.47	1.34
30	c	511	CLA	C4B-NB	4.84	1.39	1.35
42	20	210	A86	C9-C8	4.82	1.47	1.34
30	C	511	CLA	C4B-NB	4.82	1.39	1.35
30	c	503	CLA	C4B-NB	4.81	1.39	1.35
42	19	312	A86	C9-C8	4.80	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	19	311	A86	C26-C27	4.78	1.42	1.35
42	18	314	A86	C9-C8	4.77	1.46	1.34
42	20	213	A86	C9-C8	4.77	1.46	1.34
42	21	314	A86	C9-C8	4.76	1.46	1.34
30	B	604	CLA	C4B-NB	4.75	1.39	1.35
42	17	312	A86	C9-C8	4.74	1.46	1.34
42	21	312	A86	C9-C8	4.74	1.46	1.34
30	b	604	CLA	C4B-NB	4.74	1.39	1.35
42	11	311	A86	C9-C8	4.73	1.46	1.34
42	17	302	A86	C9-C8	4.73	1.46	1.34
42	15	311	A86	C9-C8	4.72	1.46	1.34
42	13	312	A86	C9-C8	4.72	1.46	1.34
30	c	510	CLA	C4D-ND	-4.72	1.31	1.37
42	14	301	A86	C9-C8	4.72	1.46	1.34
42	17	313	A86	C26-C27	4.71	1.42	1.35
42	14	313	A86	C9-C8	4.71	1.46	1.34
30	C	510	CLA	C4D-ND	-4.70	1.31	1.37
42	18	313	A86	C9-C8	4.69	1.46	1.34
42	12	316	A86	C9-C8	4.69	1.46	1.34
42	15	310	A86	C9-C8	4.69	1.46	1.34
42	17	311	A86	C26-C27	4.68	1.42	1.35
42	19	310	A86	C17-C18	-4.68	1.45	1.52
42	16	311	A86	C9-C8	4.68	1.46	1.34
42	14	314	A86	C26-C27	4.68	1.42	1.35
42	12	318	A86	C9-C8	4.67	1.46	1.34
42	15	314	A86	C9-C8	4.67	1.46	1.34
42	12	315	A86	C9-C8	4.67	1.46	1.34
42	12	319	A86	C9-C8	4.67	1.46	1.34
42	21	314	A86	C17-C18	-4.66	1.45	1.52
42	13	313	A86	C26-C27	4.66	1.42	1.35
42	16	313	A86	C9-C8	4.66	1.46	1.34
42	11	310	A86	C9-C8	4.66	1.46	1.34
42	21	310	A86	C17-C18	-4.66	1.45	1.52
42	15	313	A86	C9-C8	4.65	1.46	1.34
42	14	312	A86	C9-C8	4.65	1.46	1.34
42	16	312	A86	C26-C27	4.64	1.41	1.35
42	21	311	A86	C9-C8	4.64	1.46	1.34
42	12	317	A86	C26-C27	4.64	1.41	1.35
42	11	313	A86	C9-C8	4.64	1.46	1.34
42	17	313	A86	O4-C38	4.64	1.45	1.35
42	13	311	A86	C9-C8	4.64	1.46	1.34
42	21	313	A86	C9-C8	4.64	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	314	A86	C9-C8	4.64	1.46	1.34
42	19	312	A86	C26-C27	4.64	1.41	1.35
42	17	316	A86	C9-C8	4.62	1.46	1.34
42	20	213	A86	C17-C18	-4.62	1.45	1.52
42	13	314	A86	C9-C8	4.62	1.46	1.34
42	14	315	A86	C9-C8	4.62	1.46	1.34
30	B	612	CLA	C4D-ND	-4.62	1.31	1.37
42	14	316	A86	C9-C8	4.62	1.46	1.34
42	18	315	A86	C9-C8	4.62	1.46	1.34
42	16	310	A86	C9-C8	4.61	1.46	1.34
42	20	211	A86	C9-C8	4.61	1.46	1.34
30	b	612	CLA	C4D-ND	-4.61	1.31	1.37
42	17	314	A86	C9-C8	4.61	1.46	1.34
42	14	314	A86	O4-C38	4.60	1.45	1.35
42	21	310	A86	C9-C8	4.59	1.46	1.34
42	16	312	A86	O4-C38	4.59	1.45	1.35
42	15	312	A86	C26-C27	4.59	1.41	1.35
42	11	312	A86	C26-C27	4.58	1.41	1.35
42	13	313	A86	O4-C38	4.57	1.45	1.35
42	15	312	A86	O4-C38	4.57	1.45	1.35
42	20	212	A86	C2-C1	4.57	1.41	1.35
42	20	210	A86	C26-C27	4.56	1.41	1.35
42	11	312	A86	O4-C38	4.55	1.45	1.35
42	16	310	A86	C2-C1	4.55	1.41	1.35
42	12	317	A86	O4-C38	4.55	1.45	1.35
42	19	312	A86	C17-C18	-4.54	1.45	1.52
42	21	310	A86	C26-C27	4.54	1.41	1.35
42	19	310	A86	C9-C8	4.54	1.46	1.34
42	19	311	A86	O4-C38	4.54	1.45	1.35
42	19	312	A86	O4-C38	4.54	1.45	1.35
42	21	311	A86	C17-C18	-4.53	1.45	1.52
42	19	311	A86	C19-C18	4.53	1.58	1.52
41	F	102	HEM	C3C-C2C	-4.53	1.34	1.40
42	20	211	A86	C17-C18	-4.52	1.45	1.52
42	20	213	A86	C26-C27	4.51	1.41	1.35
42	21	314	A86	C26-C27	4.49	1.41	1.35
42	17	311	A86	C17-C18	-4.48	1.45	1.52
42	18	314	A86	C17-C18	-4.48	1.45	1.52
42	17	315	A86	C26-C27	4.48	1.41	1.35
42	13	312	A86	C17-C18	-4.47	1.45	1.52
42	12	316	A86	C17-C18	-4.46	1.45	1.52
42	20	212	A86	O4-C38	4.45	1.45	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	311	A86	C17-C18	-4.44	1.45	1.52
42	19	310	A86	C26-C27	4.44	1.41	1.35
42	16	311	A86	C17-C18	-4.43	1.45	1.52
41	f	102	HEM	C3C-C2C	-4.43	1.34	1.40
42	16	313	A86	C26-C27	4.43	1.41	1.35
42	15	311	A86	C17-C18	-4.43	1.46	1.52
42	12	304	A86	C26-C27	4.42	1.41	1.35
42	20	210	A86	C2-C1	4.42	1.41	1.35
42	17	313	A86	C17-C18	-4.41	1.46	1.52
42	11	316	A86	C26-C27	4.41	1.41	1.35
42	20	201	A86	C26-C27	4.41	1.41	1.35
42	21	313	A86	C17-C18	-4.41	1.46	1.52
42	21	314	A86	C2-C1	4.40	1.41	1.35
42	14	313	A86	C17-C18	-4.40	1.46	1.52
42	17	312	A86	C17-C18	-4.40	1.46	1.52
42	18	314	A86	C26-C27	4.40	1.41	1.35
42	15	311	A86	C26-C27	4.39	1.41	1.35
42	16	310	A86	C17-C18	-4.39	1.46	1.52
42	14	313	A86	C26-C27	4.39	1.41	1.35
30	d	401	CLA	C4D-ND	-4.38	1.31	1.37
42	20	201	A86	C2-C1	4.38	1.41	1.35
42	12	316	A86	C26-C27	4.38	1.41	1.35
42	11	311	A86	C26-C27	4.37	1.41	1.35
42	13	312	A86	C26-C27	4.37	1.41	1.35
42	13	313	A86	C17-C18	-4.37	1.46	1.52
42	20	213	A86	C2-C1	4.37	1.41	1.35
42	15	316	A86	C26-C27	4.37	1.41	1.35
42	13	301	A86	C26-C27	4.36	1.41	1.35
42	15	315	A86	C26-C27	4.36	1.41	1.35
42	18	302	A86	C26-C27	4.36	1.41	1.35
42	12	317	A86	C2-C1	4.35	1.41	1.35
42	18	315	A86	C26-C27	4.35	1.41	1.35
42	15	312	A86	C17-C18	-4.35	1.46	1.52
42	15	314	A86	C26-C27	4.34	1.41	1.35
42	21	312	A86	C17-C18	-4.33	1.46	1.52
42	15	312	A86	C2-C1	4.33	1.41	1.35
42	21	311	A86	C26-C27	4.33	1.41	1.35
42	11	312	A86	C17-C18	-4.33	1.46	1.52
42	16	312	A86	C2-C1	4.32	1.41	1.35
42	17	302	A86	C26-C27	4.32	1.41	1.35
42	14	314	A86	C2-C1	4.32	1.41	1.35
42	14	301	A86	C26-C27	4.31	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	16	312	A86	C17-C18	-4.31	1.46	1.52
42	11	314	A86	C26-C27	4.31	1.41	1.35
42	17	302	A86	C17-C18	-4.31	1.46	1.52
42	14	316	A86	C26-C27	4.31	1.41	1.35
42	14	314	A86	C17-C18	-4.30	1.46	1.52
30	C	509	CLA	C4D-ND	-4.30	1.31	1.37
42	13	315	A86	C26-C27	4.30	1.41	1.35
42	11	312	A86	C2-C1	4.30	1.41	1.35
42	16	311	A86	C26-C27	4.30	1.41	1.35
42	12	319	A86	C26-C27	4.30	1.41	1.35
42	20	201	A86	C19-C18	4.29	1.58	1.52
42	12	317	A86	C17-C18	-4.29	1.46	1.52
42	14	315	A86	C26-C27	4.29	1.41	1.35
42	20	212	A86	C7-C6	4.29	1.59	1.50
42	17	312	A86	C26-C27	4.29	1.41	1.35
42	18	302	A86	C17-C18	-4.29	1.46	1.52
42	16	313	A86	C17-C18	-4.28	1.46	1.52
42	17	311	A86	O4-C38	4.28	1.44	1.35
42	20	211	A86	C26-C27	4.28	1.41	1.35
30	d	406	CLA	C4D-ND	-4.27	1.31	1.37
42	12	319	A86	C17-C18	-4.27	1.46	1.52
42	20	201	A86	C10-C11	4.27	1.46	1.34
42	13	315	A86	C17-C18	-4.27	1.46	1.52
30	b	613	CLA	C4D-ND	-4.27	1.31	1.37
42	16	310	A86	C26-C27	4.26	1.41	1.35
42	17	314	A86	O4-C38	4.26	1.44	1.35
42	15	313	A86	C26-C27	4.26	1.41	1.35
42	11	313	A86	C26-C27	4.26	1.41	1.35
30	D	401	CLA	C4D-ND	-4.26	1.31	1.37
42	13	301	A86	O4-C38	4.26	1.44	1.35
42	21	311	A86	C2-C1	4.26	1.41	1.35
42	17	316	A86	C26-C27	4.26	1.41	1.35
42	13	315	A86	C2-C1	4.25	1.41	1.35
30	B	611	CLA	C4D-ND	-4.25	1.31	1.37
42	14	316	A86	C17-C18	-4.25	1.46	1.52
42	12	304	A86	O4-C38	4.25	1.44	1.35
42	15	315	A86	C2-C1	4.25	1.41	1.35
42	12	318	A86	C26-C27	4.25	1.41	1.35
42	13	315	A86	O4-C38	4.24	1.44	1.35
42	17	313	A86	C2-C1	4.24	1.41	1.35
42	12	318	A86	C7-C6	4.24	1.59	1.50
42	20	210	A86	C7-C6	4.24	1.59	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	12	318	A86	O4-C38	4.24	1.44	1.35
42	17	314	A86	C26-C27	4.24	1.41	1.35
42	17	316	A86	C17-C18	-4.24	1.46	1.52
30	13	302	CLA	C4D-ND	-4.24	1.31	1.37
42	12	304	A86	C7-C6	4.23	1.59	1.50
42	15	313	A86	O4-C38	4.23	1.44	1.35
42	19	310	A86	O4-C38	4.23	1.44	1.35
42	13	301	A86	C17-C18	-4.23	1.46	1.52
30	B	613	CLA	C4D-ND	-4.22	1.31	1.37
42	11	316	A86	C7-C6	4.22	1.59	1.50
42	15	315	A86	C7-C6	4.22	1.59	1.50
42	11	316	A86	O4-C38	4.22	1.44	1.35
42	13	313	A86	C2-C1	4.22	1.41	1.35
42	13	314	A86	O4-C38	4.22	1.44	1.35
42	20	212	A86	C17-C18	-4.22	1.46	1.52
42	15	313	A86	C7-C6	4.22	1.59	1.50
42	11	314	A86	C17-C18	-4.22	1.46	1.52
42	11	316	A86	C17-C18	-4.21	1.46	1.52
42	17	315	A86	C17-C18	-4.21	1.46	1.52
42	15	316	A86	O4-C38	4.21	1.44	1.35
42	21	312	A86	O4-C38	4.21	1.44	1.35
30	c	502	CLA	C4D-ND	-4.21	1.31	1.37
42	20	210	A86	O4-C38	4.21	1.44	1.35
42	13	315	A86	C7-C6	4.20	1.59	1.50
42	13	301	A86	C7-C6	4.20	1.59	1.50
42	11	313	A86	C7-C6	4.20	1.59	1.50
42	18	302	A86	O4-C38	4.20	1.44	1.35
42	11	313	A86	O4-C38	4.20	1.44	1.35
42	18	315	A86	O4-C38	4.20	1.44	1.35
42	12	304	A86	C2-C1	4.20	1.41	1.35
30	C	502	CLA	C4D-ND	-4.20	1.31	1.37
30	a	402	CLA	C4D-ND	-4.20	1.31	1.37
42	20	213	A86	O4-C38	4.20	1.44	1.35
42	18	302	A86	C7-C6	4.20	1.59	1.50
42	21	313	A86	O4-C38	4.20	1.44	1.35
42	15	315	A86	O4-C38	4.20	1.44	1.35
42	15	316	A86	C7-C6	4.19	1.59	1.50
42	15	315	A86	C17-C18	-4.19	1.46	1.52
42	18	315	A86	C7-C6	4.19	1.59	1.50
42	17	314	A86	C2-C1	4.19	1.41	1.35
42	13	314	A86	C7-C6	4.19	1.59	1.50
30	D	405	CLA	C4D-ND	-4.19	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	15	316	A86	C17-C18	-4.19	1.46	1.52
42	14	315	A86	O4-C38	4.19	1.44	1.35
42	17	312	A86	O4-C38	4.19	1.44	1.35
42	17	315	A86	C2-C1	4.19	1.41	1.35
42	15	316	A86	C2-C1	4.18	1.41	1.35
42	13	314	A86	C26-C27	4.18	1.41	1.35
42	21	313	A86	C26-C27	4.18	1.41	1.35
42	12	304	A86	C17-C18	-4.18	1.46	1.52
42	16	310	A86	O4-C38	4.18	1.44	1.35
42	17	314	A86	C7-C6	4.18	1.59	1.50
42	19	312	A86	C2-C1	4.17	1.41	1.35
42	14	315	A86	C7-C6	4.17	1.59	1.50
30	c	509	CLA	C4D-ND	-4.17	1.32	1.37
42	14	301	A86	C21-C20	4.17	1.58	1.51
42	17	316	A86	C7-C6	4.17	1.59	1.50
42	18	302	A86	C2-C1	4.17	1.41	1.35
30	12	305	CLA	C4D-ND	-4.16	1.32	1.37
42	11	312	A86	C7-C6	4.16	1.59	1.50
42	17	315	A86	O4-C38	4.16	1.44	1.35
42	20	211	A86	C2-C1	4.16	1.41	1.35
42	14	301	A86	C17-C18	-4.16	1.46	1.52
42	15	314	A86	C17-C18	-4.16	1.46	1.52
42	20	201	A86	C7-C6	4.16	1.59	1.50
42	17	302	A86	C2-C1	4.16	1.41	1.35
42	21	314	A86	O4-C38	4.16	1.44	1.35
42	18	314	A86	O4-C38	4.16	1.44	1.35
42	19	311	A86	C7-C6	4.15	1.59	1.50
42	17	314	A86	C17-C18	-4.15	1.46	1.52
42	12	318	A86	C17-C18	-4.15	1.46	1.52
42	13	312	A86	O4-C38	4.15	1.44	1.35
42	13	301	A86	C2-C1	4.15	1.41	1.35
30	b	611	CLA	C4D-ND	-4.15	1.32	1.37
42	11	311	A86	O4-C38	4.15	1.44	1.35
42	11	316	A86	C2-C1	4.15	1.41	1.35
42	15	312	A86	C7-C6	4.15	1.59	1.50
30	B	604	CLA	C4D-ND	-4.14	1.32	1.37
42	15	313	A86	C17-C18	-4.14	1.46	1.52
42	21	311	A86	O4-C38	4.14	1.44	1.35
42	14	316	A86	C7-C6	4.14	1.59	1.50
30	A	402	CLA	C4D-ND	-4.14	1.32	1.37
42	14	301	A86	C7-C6	4.14	1.59	1.50
42	11	313	A86	C17-C18	-4.14	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	18	315	A86	C17-C18	-4.14	1.46	1.52
42	20	213	A86	C7-C6	4.13	1.59	1.50
42	15	311	A86	O4-C38	4.13	1.44	1.35
42	21	313	A86	C7-C6	4.13	1.59	1.50
42	21	314	A86	C7-C6	4.13	1.59	1.50
42	17	302	A86	C7-C6	4.13	1.59	1.50
42	17	302	A86	O4-C38	4.13	1.44	1.35
42	12	319	A86	C7-C6	4.13	1.59	1.50
42	18	313	A86	C17-C18	-4.13	1.46	1.52
42	21	313	A86	C2-C1	4.13	1.41	1.35
42	11	314	A86	C7-C6	4.13	1.59	1.50
42	17	311	A86	C7-C6	4.12	1.59	1.50
30	14	303	CLA	C4D-ND	-4.12	1.32	1.37
42	16	311	A86	O4-C38	4.12	1.44	1.35
42	20	211	A86	O4-C38	4.12	1.44	1.35
30	A	404	CLA	C4D-ND	-4.12	1.32	1.37
42	21	312	A86	C26-C27	4.12	1.41	1.35
42	16	313	A86	C7-C6	4.12	1.59	1.50
30	b	604	CLA	C4D-ND	-4.11	1.32	1.37
42	12	316	A86	O4-C38	4.11	1.44	1.35
42	14	316	A86	C21-C20	4.11	1.58	1.51
42	13	313	A86	C7-C6	4.11	1.59	1.50
42	15	314	A86	C21-C20	4.11	1.58	1.51
42	12	315	A86	C17-C18	-4.11	1.46	1.52
42	14	314	A86	C7-C6	4.11	1.59	1.50
30	a	403	CLA	C4D-ND	-4.11	1.32	1.37
30	11	301	CLA	C4D-ND	-4.10	1.32	1.37
42	16	312	A86	C7-C6	4.10	1.59	1.50
30	d	402	CLA	C4D-ND	-4.10	1.32	1.37
42	14	313	A86	O4-C38	4.10	1.44	1.35
42	14	313	A86	C7-C6	4.10	1.59	1.50
42	20	201	A86	O4-C38	4.10	1.44	1.35
42	14	312	A86	C17-C18	-4.09	1.46	1.52
42	21	310	A86	C2-C1	4.09	1.41	1.35
42	11	314	A86	C21-C20	4.09	1.58	1.51
30	B	610	CLA	C4D-ND	-4.09	1.32	1.37
42	13	314	A86	C17-C18	-4.09	1.46	1.52
42	18	314	A86	C7-C6	4.08	1.59	1.50
42	17	311	A86	C2-C1	4.08	1.41	1.35
42	17	313	A86	C7-C6	4.08	1.59	1.50
42	14	315	A86	C17-C18	-4.08	1.46	1.52
42	12	319	A86	O4-C38	4.08	1.44	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	B	623	CLA	C4D-ND	-4.08	1.32	1.37
42	15	314	A86	C7-C6	4.08	1.59	1.50
42	16	313	A86	C2-C1	4.08	1.41	1.35
42	16	313	A86	O4-C38	4.08	1.44	1.35
30	19	301	CLA	C4D-ND	-4.07	1.32	1.37
42	16	311	A86	C7-C6	4.07	1.59	1.50
42	11	316	A86	C21-C20	4.07	1.58	1.51
42	12	317	A86	C7-C6	4.07	1.59	1.50
42	16	310	A86	C7-C6	4.07	1.59	1.50
42	11	313	A86	C21-C20	4.07	1.58	1.51
30	c	514	CLA	C4D-ND	-4.07	1.32	1.37
42	12	318	A86	C21-C20	4.06	1.58	1.51
42	17	316	A86	C21-C20	4.06	1.58	1.51
30	D	402	CLA	C4D-ND	-4.06	1.32	1.37
42	17	316	A86	O4-C38	4.06	1.44	1.35
30	c	508	CLA	C4D-ND	-4.06	1.32	1.37
42	21	311	A86	C7-C6	4.06	1.59	1.50
42	14	316	A86	O4-C38	4.06	1.44	1.35
42	15	314	A86	O4-C38	4.06	1.44	1.35
42	12	319	A86	C2-C1	4.06	1.41	1.35
42	20	211	A86	C7-C6	4.06	1.59	1.50
42	12	319	A86	C21-C20	4.06	1.58	1.51
42	21	310	A86	C7-C6	4.06	1.59	1.50
42	14	301	A86	O4-C38	4.05	1.44	1.35
42	19	312	A86	C7-C6	4.05	1.59	1.50
42	17	316	A86	C2-C1	4.05	1.41	1.35
42	15	311	A86	C7-C6	4.05	1.59	1.50
42	19	310	A86	C7-C6	4.04	1.59	1.50
42	12	316	A86	C7-C6	4.04	1.59	1.50
30	C	508	CLA	C4D-ND	-4.04	1.32	1.37
42	15	313	A86	C21-C20	4.04	1.58	1.51
42	13	314	A86	C2-C1	4.04	1.41	1.35
42	12	315	A86	C7-C6	4.04	1.59	1.50
30	b	622	CLA	C4D-ND	-4.04	1.32	1.37
42	16	313	A86	C21-C20	4.04	1.58	1.51
42	15	314	A86	C2-C1	4.04	1.41	1.35
42	11	310	A86	C17-C18	-4.04	1.46	1.52
40	d	408	PL9	C7-C8	-4.04	1.44	1.50
42	13	311	A86	C26-C27	4.04	1.41	1.35
30	c	503	CLA	C4D-ND	-4.03	1.32	1.37
42	11	311	A86	C7-C6	4.03	1.59	1.50
30	C	514	CLA	C4D-ND	-4.03	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	313	A86	C2-C1	4.03	1.41	1.35
42	13	315	A86	C21-C20	4.03	1.58	1.51
30	b	610	CLA	C4D-ND	-4.03	1.32	1.37
42	13	311	A86	C17-C18	-4.03	1.46	1.52
42	11	314	A86	C2-C1	4.03	1.41	1.35
42	15	316	A86	C21-C20	4.03	1.58	1.51
42	14	312	A86	C7-C6	4.02	1.59	1.50
30	c	513	CLA	C4D-ND	-4.02	1.32	1.37
42	11	310	A86	C7-C6	4.01	1.59	1.50
42	18	313	A86	C7-C6	4.01	1.59	1.50
42	17	312	A86	C7-C6	4.01	1.59	1.50
42	14	313	A86	C2-C1	4.01	1.41	1.35
42	15	310	A86	C7-C6	4.01	1.59	1.50
42	11	310	A86	C21-C20	4.01	1.58	1.51
42	12	315	A86	C21-C20	4.01	1.58	1.51
42	20	210	A86	C21-C20	4.01	1.58	1.51
30	c	505	CLA	C4D-ND	-4.01	1.32	1.37
30	C	503	CLA	C4D-ND	-4.00	1.32	1.37
42	17	315	A86	C7-C6	4.00	1.59	1.50
42	11	314	A86	O4-C38	4.00	1.44	1.35
30	b	607	CLA	C4D-ND	-4.00	1.32	1.37
42	15	315	A86	C21-C20	4.00	1.58	1.51
42	13	312	A86	C7-C6	4.00	1.59	1.50
42	13	301	A86	C21-C20	4.00	1.58	1.51
42	12	318	A86	C2-C1	3.99	1.41	1.35
42	17	311	A86	C21-C20	3.99	1.58	1.51
42	21	310	A86	O4-C38	3.99	1.44	1.35
42	17	315	A86	C9-C10	3.99	1.55	1.43
42	14	315	A86	C21-C20	3.99	1.58	1.51
42	12	304	A86	C21-C20	3.99	1.58	1.51
42	18	315	A86	C2-C1	3.99	1.41	1.35
42	18	315	A86	C21-C20	3.99	1.58	1.51
42	18	313	A86	C26-C27	3.98	1.41	1.35
30	B	607	CLA	C4D-ND	-3.98	1.32	1.37
42	14	312	A86	C21-C20	3.98	1.58	1.51
42	15	313	A86	C2-C1	3.98	1.41	1.35
42	17	312	A86	C2-C1	3.98	1.41	1.35
42	18	314	A86	C2-C1	3.98	1.41	1.35
42	20	210	A86	C17-C18	-3.98	1.46	1.52
30	16	307	CLA	C4D-ND	-3.97	1.32	1.37
42	15	310	A86	C17-C18	-3.97	1.46	1.52
42	14	301	A86	C2-C1	3.97	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	21	312	A86	C7-C6	3.97	1.59	1.50
42	18	313	A86	C21-C20	3.97	1.58	1.51
42	17	315	A86	C10-C11	3.97	1.46	1.34
42	15	311	A86	C2-C1	3.97	1.41	1.35
42	19	310	A86	C2-C1	3.97	1.41	1.35
30	c	511	CLA	C4D-ND	-3.97	1.32	1.37
30	C	507	CLA	CMB-C2B	-3.97	1.43	1.51
42	11	310	A86	O4-C38	3.96	1.44	1.35
42	18	302	A86	C21-C20	3.96	1.58	1.51
42	13	311	A86	O4-C38	3.96	1.44	1.35
42	16	311	A86	C2-C1	3.96	1.41	1.35
42	18	313	A86	O4-C38	3.95	1.44	1.35
42	14	316	A86	C2-C1	3.95	1.41	1.35
42	13	312	A86	C2-C1	3.95	1.41	1.35
42	13	311	A86	C7-C6	3.95	1.59	1.50
42	15	310	A86	C21-C20	3.95	1.58	1.51
42	13	311	A86	C21-C20	3.95	1.58	1.51
42	20	212	A86	C5-C6	3.95	1.41	1.35
42	21	312	A86	C2-C1	3.95	1.41	1.35
42	13	314	A86	C21-C20	3.95	1.58	1.51
42	14	312	A86	C26-C27	3.94	1.41	1.35
30	B	606	CLA	C4D-ND	-3.94	1.32	1.37
42	14	315	A86	C2-C1	3.94	1.41	1.35
30	17	301	CLA	C4D-ND	-3.94	1.32	1.37
30	C	513	CLA	C4D-ND	-3.94	1.32	1.37
42	20	201	A86	C9-C10	3.94	1.55	1.43
42	11	310	A86	C2-C1	3.94	1.41	1.35
30	16	302	CLA	C4D-ND	-3.94	1.32	1.37
42	15	310	A86	C2-C1	3.94	1.41	1.35
42	15	310	A86	O4-C38	3.94	1.44	1.35
30	C	512	CLA	C4D-ND	-3.93	1.32	1.37
40	D	407	PL9	C7-C8	-3.93	1.45	1.50
30	c	507	CLA	CMB-C2B	-3.93	1.43	1.51
30	d	407	CLA	C4D-ND	-3.93	1.32	1.37
42	12	316	A86	C2-C1	3.92	1.41	1.35
30	b	606	CLA	C4D-ND	-3.92	1.32	1.37
42	12	315	A86	O4-C38	3.92	1.44	1.35
30	15	304	CLA	C1D-ND	3.92	1.42	1.37
42	14	312	A86	O4-C38	3.92	1.44	1.35
30	b	611	CLA	CMB-C2B	-3.92	1.43	1.51
42	20	210	A86	C19-C18	3.92	1.58	1.52
42	20	212	A86	C10-C11	3.91	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	c	512	CLA	C4D-ND	-3.90	1.32	1.37
42	15	310	A86	C26-C27	3.90	1.41	1.35
42	11	311	A86	C2-C1	3.90	1.41	1.35
42	20	212	A86	C21-C20	3.90	1.57	1.51
42	13	311	A86	C2-C1	3.90	1.41	1.35
42	20	212	A86	C9-C10	3.90	1.55	1.43
30	16	306	CLA	C1D-ND	3.89	1.42	1.37
30	D	406	CLA	C4D-ND	-3.89	1.32	1.37
42	17	314	A86	C21-C20	3.89	1.57	1.51
30	B	611	CLA	CMB-C2B	-3.89	1.43	1.51
30	c	509	CLA	CMB-C2B	-3.88	1.43	1.51
42	12	315	A86	C26-C27	3.88	1.40	1.35
30	C	505	CLA	C4D-ND	-3.88	1.32	1.37
42	16	311	A86	C21-C20	3.88	1.57	1.51
42	11	310	A86	C26-C27	3.87	1.40	1.35
42	20	210	A86	C10-C11	3.87	1.45	1.34
30	C	504	CLA	C4D-ND	-3.87	1.32	1.37
30	W	103	CLA	C1D-ND	3.86	1.42	1.37
42	12	316	A86	C21-C20	3.86	1.57	1.51
30	w	103	CLA	C1D-ND	3.86	1.42	1.37
42	14	312	A86	C2-C1	3.86	1.40	1.35
30	17	303	CLA	C4D-ND	-3.85	1.32	1.37
30	b	603	CLA	C4D-ND	-3.85	1.32	1.37
42	14	314	A86	C9-C10	3.85	1.55	1.43
42	17	313	A86	C9-C10	3.85	1.55	1.43
42	19	312	A86	C9-C10	3.85	1.55	1.43
42	17	311	A86	C9-C10	3.84	1.55	1.43
42	15	312	A86	C9-C10	3.84	1.55	1.43
42	17	312	A86	C21-C20	3.84	1.57	1.51
30	C	509	CLA	CMB-C2B	-3.84	1.43	1.51
30	c	507	CLA	C4D-ND	-3.84	1.32	1.37
42	19	311	A86	C2-C1	3.83	1.40	1.35
30	C	511	CLA	C4D-ND	-3.83	1.32	1.37
30	C	507	CLA	C4D-ND	-3.83	1.32	1.37
42	13	313	A86	C9-C10	3.83	1.55	1.43
42	11	312	A86	C9-C10	3.83	1.55	1.43
30	18	309	CLA	C4D-ND	-3.83	1.32	1.37
30	19	308	CLA	C4D-ND	-3.83	1.32	1.37
42	21	314	A86	C9-C10	3.83	1.55	1.43
42	20	213	A86	C9-C10	3.83	1.55	1.43
42	17	311	A86	C19-C18	3.82	1.57	1.52
42	16	312	A86	C9-C10	3.82	1.55	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	316	A86	C9-C10	3.82	1.55	1.43
42	12	304	A86	C9-C10	3.81	1.55	1.43
42	13	301	A86	C9-C10	3.81	1.55	1.43
40	D	407	PL9	C52-C5	-3.81	1.42	1.50
42	15	315	A86	C9-C10	3.81	1.55	1.43
42	13	315	A86	C9-C10	3.81	1.55	1.43
42	12	315	A86	C2-C1	3.81	1.40	1.35
40	d	408	PL9	C52-C5	-3.81	1.42	1.50
42	19	311	A86	C10-C11	3.81	1.45	1.34
42	19	311	A86	C9-C10	3.80	1.55	1.43
42	14	314	A86	C10-C11	3.80	1.45	1.34
42	15	312	A86	C10-C11	3.80	1.45	1.34
42	12	317	A86	C9-C10	3.80	1.55	1.43
42	18	313	A86	C2-C1	3.80	1.40	1.35
42	12	317	A86	C10-C11	3.80	1.45	1.34
42	20	210	A86	C9-C10	3.80	1.55	1.43
42	15	316	A86	C9-C10	3.79	1.55	1.43
42	20	212	A86	C19-C18	3.79	1.57	1.52
35	d	409	LHG	O7-C5	-3.79	1.37	1.46
42	19	312	A86	C21-C20	3.78	1.57	1.51
42	16	312	A86	C10-C11	3.78	1.45	1.34
42	11	312	A86	C10-C11	3.78	1.45	1.34
32	B	616	BCR	C30-C25	-3.78	1.48	1.53
30	21	305	CLA	C1D-ND	3.78	1.42	1.37
30	B	603	CLA	C4D-ND	-3.78	1.32	1.37
42	17	311	A86	C10-C11	3.78	1.45	1.34
30	z	101	CLA	C4D-ND	-3.78	1.32	1.37
42	20	201	A86	C21-C20	3.77	1.57	1.51
35	L	101	LHG	O7-C5	-3.77	1.37	1.46
30	21	309	CLA	C1D-ND	3.77	1.42	1.37
42	16	313	A86	C9-C10	3.77	1.55	1.43
42	17	313	A86	C10-C11	3.77	1.45	1.34
32	H	101	BCR	C1-C6	-3.77	1.48	1.53
42	20	213	A86	C10-C11	3.77	1.45	1.34
30	19	302	CLA	C4D-ND	-3.77	1.32	1.37
30	17	305	CLA	C4D-ND	-3.77	1.32	1.37
42	20	210	A86	C5-C6	3.77	1.40	1.35
42	17	315	A86	C21-C20	3.76	1.57	1.51
42	13	312	A86	C21-C20	3.76	1.57	1.51
42	18	302	A86	C9-C10	3.76	1.55	1.43
42	13	313	A86	C10-C11	3.76	1.45	1.34
42	14	313	A86	C21-C20	3.76	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	m	103	BCR	C30-C25	-3.76	1.48	1.53
30	C	519	CLA	C4D-ND	-3.75	1.32	1.37
30	c	504	CLA	C4D-ND	-3.75	1.32	1.37
42	21	314	A86	C10-C11	3.75	1.45	1.34
30	15	307	CLA	C4D-ND	-3.75	1.32	1.37
30	B	615	CLA	C3B-C2B	-3.74	1.35	1.40
32	h	101	BCR	C1-C6	-3.74	1.48	1.53
42	12	317	A86	C5-C6	3.74	1.40	1.35
42	11	311	A86	C21-C20	3.74	1.57	1.51
30	16	304	CLA	C4D-ND	-3.74	1.32	1.37
42	14	316	A86	C9-C10	3.74	1.55	1.43
42	12	319	A86	C9-C10	3.74	1.55	1.43
42	14	313	A86	C9-C10	3.73	1.55	1.43
42	11	314	A86	C9-C10	3.73	1.55	1.43
42	15	311	A86	C21-C20	3.73	1.57	1.51
42	20	211	A86	C9-C10	3.73	1.55	1.43
42	18	314	A86	C9-C10	3.73	1.55	1.43
42	17	302	A86	C9-C10	3.73	1.55	1.43
42	17	316	A86	C9-C10	3.73	1.55	1.43
30	b	602	CLA	C4D-ND	-3.73	1.32	1.37
42	16	310	A86	C9-C10	3.73	1.55	1.43
42	13	314	A86	C9-C10	3.72	1.55	1.43
30	Z	102	CLA	C1D-ND	3.72	1.42	1.37
42	17	312	A86	C9-C10	3.72	1.55	1.43
42	15	314	A86	C9-C10	3.72	1.55	1.43
42	12	316	A86	C9-C10	3.71	1.54	1.43
30	18	303	CLA	C4D-ND	-3.71	1.32	1.37
42	17	314	A86	C9-C10	3.71	1.54	1.43
42	14	301	A86	C9-C10	3.71	1.54	1.43
42	17	302	A86	C10-C11	3.71	1.45	1.34
42	21	310	A86	C21-C20	3.71	1.57	1.51
42	14	315	A86	C9-C10	3.71	1.54	1.43
42	13	312	A86	C10-C11	3.71	1.45	1.34
30	14	309	CLA	C4D-ND	-3.71	1.32	1.37
42	13	312	A86	C9-C10	3.70	1.54	1.43
42	14	314	A86	C5-C6	3.70	1.40	1.35
42	11	313	A86	C9-C10	3.70	1.54	1.43
30	15	306	CLA	C1D-ND	3.70	1.42	1.37
32	C	518	BCR	C30-C25	-3.70	1.48	1.53
42	15	313	A86	C9-C10	3.70	1.54	1.43
42	11	312	A86	C21-C20	3.70	1.57	1.51
30	B	601	CLA	C4D-ND	-3.70	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	311	A86	C9-C10	3.69	1.54	1.43
42	18	314	A86	C21-C20	3.69	1.57	1.51
42	15	311	A86	C9-C10	3.69	1.54	1.43
30	B	602	CLA	C4D-ND	-3.69	1.32	1.37
30	17	308	CLA	C4D-ND	-3.69	1.32	1.37
42	21	313	A86	C9-C10	3.69	1.54	1.43
42	12	318	A86	C9-C10	3.69	1.54	1.43
30	21	301	CLA	C1D-ND	3.69	1.42	1.37
30	M	101	CLA	C4D-ND	-3.68	1.32	1.37
42	16	312	A86	C5-C6	3.68	1.40	1.35
42	16	311	A86	C9-C10	3.68	1.54	1.43
42	15	311	A86	C10-C11	3.68	1.45	1.34
42	21	311	A86	C9-C10	3.68	1.54	1.43
42	21	312	A86	C9-C10	3.67	1.54	1.43
42	14	314	A86	C21-C20	3.67	1.57	1.51
42	19	310	A86	C9-C10	3.67	1.54	1.43
42	13	313	A86	C21-C20	3.67	1.57	1.51
42	12	316	A86	C10-C11	3.67	1.45	1.34
42	18	314	A86	C10-C11	3.67	1.45	1.34
42	13	313	A86	C5-C6	3.67	1.40	1.35
42	19	312	A86	C10-C11	3.67	1.45	1.34
42	15	312	A86	C5-C6	3.67	1.40	1.35
30	m	101	CLA	C4D-ND	-3.66	1.32	1.37
42	21	314	A86	C5-C6	3.66	1.40	1.35
42	17	302	A86	C21-C20	3.66	1.57	1.51
42	21	313	A86	C21-C20	3.66	1.57	1.51
30	b	601	CLA	C4D-ND	-3.66	1.32	1.37
42	11	311	A86	C10-C11	3.66	1.45	1.34
42	14	313	A86	C10-C11	3.66	1.45	1.34
42	17	313	A86	C5-C6	3.66	1.40	1.35
42	20	213	A86	C5-C6	3.66	1.40	1.35
42	17	312	A86	C10-C11	3.65	1.45	1.34
42	14	315	A86	C19-C18	3.65	1.57	1.52
42	14	312	A86	C9-C10	3.65	1.54	1.43
30	B	608	CLA	C4D-ND	-3.65	1.32	1.37
42	16	312	A86	C21-C20	3.65	1.57	1.51
42	15	314	A86	C10-C11	3.65	1.45	1.34
42	11	312	A86	C5-C6	3.65	1.40	1.35
30	18	306	CLA	C1D-ND	3.65	1.42	1.37
30	b	615	CLA	C3B-C2B	-3.65	1.35	1.40
42	17	313	A86	C21-C20	3.65	1.57	1.51
30	20	204	CLA	C4D-ND	-3.65	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	12	307	CLA	C4D-ND	-3.65	1.32	1.37
30	c	506	CLA	C4D-ND	-3.64	1.32	1.37
30	13	308	CLA	C4D-ND	-3.64	1.32	1.37
30	W	102	CLA	C4D-ND	-3.64	1.32	1.37
42	18	315	A86	C9-C10	3.64	1.54	1.43
30	21	306	CLA	C1D-ND	3.64	1.42	1.37
42	15	312	A86	C21-C20	3.64	1.57	1.51
30	12	311	CLA	C4D-ND	-3.64	1.32	1.37
42	21	310	A86	C9-C10	3.64	1.54	1.43
42	20	201	A86	C5-C6	3.64	1.40	1.35
42	11	316	A86	C10-C11	3.63	1.45	1.34
42	19	311	A86	C5-C6	3.63	1.40	1.35
42	21	314	A86	C21-C20	3.63	1.57	1.51
42	12	318	A86	C19-C18	3.63	1.57	1.52
30	b	608	CLA	C4D-ND	-3.63	1.32	1.37
30	b	615	CLA	C4D-ND	-3.63	1.32	1.37
30	11	307	CLA	C4D-ND	-3.63	1.32	1.37
42	16	313	A86	C10-C11	3.63	1.45	1.34
42	13	311	A86	C9-C10	3.63	1.54	1.43
42	16	311	A86	C10-C11	3.63	1.45	1.34
42	14	316	A86	C10-C11	3.63	1.45	1.34
42	12	319	A86	C10-C11	3.63	1.45	1.34
30	b	614	CLA	C4D-ND	-3.63	1.32	1.37
30	20	208	CLA	C1D-ND	3.63	1.42	1.37
42	15	316	A86	C10-C11	3.63	1.45	1.34
32	c	515	BCR	C30-C25	-3.62	1.48	1.53
30	18	305	CLA	C4D-ND	-3.62	1.32	1.37
42	17	316	A86	C10-C11	3.62	1.45	1.34
42	12	315	A86	C9-C10	3.62	1.54	1.43
42	11	314	A86	C10-C11	3.62	1.45	1.34
42	13	315	A86	C10-C11	3.62	1.45	1.34
30	B	605	CLA	C4D-ND	-3.62	1.32	1.37
42	18	302	A86	C5-C6	3.62	1.40	1.35
30	15	301	CLA	C4D-ND	-3.62	1.32	1.37
42	14	301	A86	C10-C11	3.62	1.45	1.34
42	16	310	A86	C21-C20	3.61	1.57	1.51
42	18	313	A86	C9-C10	3.61	1.54	1.43
42	18	315	A86	C10-C11	3.61	1.45	1.34
42	12	317	A86	C21-C20	3.61	1.57	1.51
42	11	310	A86	C9-C10	3.61	1.54	1.43
42	16	310	A86	C19-C18	3.61	1.57	1.52
42	20	213	A86	C21-C20	3.61	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	12	315	A86	C10-C11	3.61	1.45	1.34
42	13	311	A86	C10-C11	3.61	1.45	1.34
37	B	625	LMU	O5B-C1B	3.61	1.51	1.41
42	15	310	A86	C9-C10	3.61	1.54	1.43
42	18	302	A86	C10-C11	3.61	1.45	1.34
37	12	302	LMU	O5B-C1B	3.61	1.51	1.41
42	15	310	A86	C10-C11	3.61	1.45	1.34
42	19	310	A86	C10-C11	3.61	1.45	1.34
42	13	314	A86	C19-C18	3.61	1.57	1.52
42	17	315	A86	C19-C18	3.61	1.57	1.52
42	15	315	A86	C10-C11	3.61	1.45	1.34
42	13	301	A86	C10-C11	3.61	1.45	1.34
42	19	310	A86	C21-C20	3.60	1.57	1.51
32	c	521	BCR	C30-C25	-3.60	1.48	1.53
30	B	615	CLA	C4D-ND	-3.60	1.32	1.37
30	19	309	CLA	C4D-ND	-3.60	1.32	1.37
30	16	309	CLA	C4D-ND	-3.60	1.32	1.37
42	15	315	A86	C5-C6	3.60	1.40	1.35
42	11	310	A86	C10-C11	3.60	1.45	1.34
30	13	304	CLA	C4D-ND	-3.60	1.32	1.37
30	19	306	CLA	C4D-ND	-3.60	1.32	1.37
42	18	313	A86	C10-C11	3.60	1.45	1.34
42	14	312	A86	C10-C11	3.59	1.45	1.34
42	21	310	A86	C10-C11	3.59	1.45	1.34
30	w	102	CLA	C4D-ND	-3.59	1.32	1.37
42	13	301	A86	C5-C6	3.59	1.40	1.35
32	Z	101	BCR	C30-C25	-3.59	1.48	1.53
42	12	304	A86	C10-C11	3.59	1.45	1.34
42	21	311	A86	C10-C11	3.58	1.45	1.34
42	11	313	A86	C10-C11	3.58	1.45	1.34
30	15	305	CLA	C1D-ND	3.58	1.42	1.37
42	11	316	A86	C5-C6	3.58	1.40	1.35
42	17	314	A86	C19-C18	3.58	1.57	1.52
42	12	304	A86	C5-C6	3.58	1.40	1.35
42	18	315	A86	C19-C18	3.58	1.57	1.52
30	19	307	CLA	C4D-ND	-3.58	1.32	1.37
32	B	616	BCR	C1-C6	-3.57	1.48	1.53
42	13	315	A86	C5-C6	3.57	1.40	1.35
30	21	308	CLA	C1D-ND	3.56	1.42	1.37
30	14	307	CLA	C1D-ND	3.56	1.42	1.37
30	18	308	CLA	C1D-ND	3.56	1.42	1.37
42	20	211	A86	C10-C11	3.56	1.44	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	20	205	CLA	C1D-ND	3.56	1.42	1.37
42	12	318	A86	C10-C11	3.56	1.44	1.34
42	14	315	A86	C10-C11	3.56	1.44	1.34
30	11	303	CLA	C4D-ND	-3.56	1.32	1.37
42	11	313	A86	C19-C18	3.55	1.57	1.52
42	17	314	A86	C10-C11	3.55	1.44	1.34
42	15	313	A86	C10-C11	3.55	1.44	1.34
30	18	310	CLA	C1D-ND	3.55	1.42	1.37
42	15	316	A86	C5-C6	3.55	1.40	1.35
42	15	313	A86	C19-C18	3.55	1.57	1.52
30	11	305	CLA	C1D-ND	3.55	1.42	1.37
40	d	405	PL9	C3-C4	-3.55	1.43	1.49
42	16	310	A86	C5-C6	3.54	1.40	1.35
42	21	312	A86	C10-C11	3.54	1.44	1.34
32	m	103	BCR	C1-C6	-3.54	1.48	1.53
30	B	614	CLA	C4D-ND	-3.54	1.32	1.37
30	C	506	CLA	C4D-ND	-3.54	1.32	1.37
42	21	311	A86	C21-C20	3.54	1.57	1.51
30	21	302	CLA	C1D-ND	3.53	1.42	1.37
42	16	310	A86	C10-C11	3.53	1.44	1.34
42	13	314	A86	C10-C11	3.53	1.44	1.34
30	20	202	CLA	C1D-ND	3.52	1.42	1.37
30	C	520	CLA	C4D-ND	-3.52	1.32	1.37
32	c	520	BCR	C1-C6	-3.52	1.48	1.53
30	18	307	CLA	C1D-ND	3.51	1.42	1.37
32	Y	101	BCR	C1-C6	-3.51	1.48	1.53
30	b	612	CLA	CMD-C2D	-3.51	1.43	1.50
30	14	305	CLA	C4D-ND	-3.51	1.32	1.37
30	12	312	CLA	C4D-ND	-3.51	1.32	1.37
42	20	211	A86	C21-C20	3.51	1.57	1.51
42	14	315	A86	C5-C6	3.50	1.40	1.35
42	17	315	A86	C5-C6	3.50	1.40	1.35
42	21	313	A86	C10-C11	3.50	1.44	1.34
30	20	206	CLA	C1D-ND	3.50	1.42	1.37
30	b	605	CLA	C4D-ND	-3.50	1.32	1.37
42	17	311	A86	C5-C6	3.49	1.40	1.35
30	c	503	CLA	C3B-C2B	-3.49	1.35	1.40
30	11	315	CLA	C4D-ND	-3.47	1.32	1.37
30	19	305	CLA	C4D-ND	-3.47	1.32	1.37
42	15	314	A86	C5-C6	3.47	1.40	1.35
31	d	403	PHO	CAC-C3C	-3.47	1.46	1.52
32	a	404	BCR	C1-C6	-3.47	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	14	316	A86	C5-C6	3.47	1.40	1.35
31	A	403	PHO	CAC-C3C	-3.47	1.46	1.52
30	14	310	CLA	C4D-ND	-3.47	1.32	1.37
30	B	609	CLA	C4D-ND	-3.46	1.32	1.37
30	b	609	CLA	C4D-ND	-3.46	1.32	1.37
30	C	503	CLA	C3B-C2B	-3.46	1.35	1.40
30	21	302	CLA	C4D-ND	-3.46	1.32	1.37
30	16	305	CLA	C1D-ND	3.46	1.42	1.37
41	F	102	HEM	C3C-CAC	3.46	1.54	1.47
30	B	612	CLA	CMD-C2D	-3.46	1.43	1.50
30	20	207	CLA	C4D-ND	-3.45	1.32	1.37
40	D	404	PL9	C3-C4	-3.44	1.43	1.49
42	11	314	A86	C5-C6	3.44	1.40	1.35
42	20	213	A86	C19-C18	3.44	1.57	1.52
30	21	304	CLA	C1D-ND	3.44	1.42	1.37
32	c	515	BCR	C1-C6	-3.43	1.49	1.53
30	12	303	CLA	C4D-ND	-3.43	1.33	1.37
30	B	608	CLA	C3B-C2B	-3.42	1.35	1.40
30	b	602	CLA	C1D-ND	3.42	1.42	1.37
42	18	314	A86	C5-C6	3.42	1.40	1.35
32	c	516	BCR	C1-C6	-3.42	1.49	1.53
32	C	515	BCR	C1-C6	-3.41	1.49	1.53
42	21	314	A86	C19-C18	3.41	1.57	1.52
30	B	602	CLA	C1D-ND	3.41	1.42	1.37
30	c	510	CLA	CMB-C2B	-3.41	1.44	1.51
30	20	209	CLA	C4D-ND	-3.41	1.33	1.37
42	18	315	A86	C5-C6	3.41	1.40	1.35
30	a	403	CLA	C3B-C2B	-3.40	1.35	1.40
30	21	307	CLA	C1D-ND	3.40	1.42	1.37
30	17	310	CLA	C4D-ND	-3.40	1.33	1.37
42	20	201	A86	C17-C18	-3.40	1.47	1.52
42	11	313	A86	C5-C6	3.40	1.40	1.35
30	15	309	CLA	C1D-ND	3.40	1.42	1.37
42	14	301	A86	C5-C6	3.40	1.40	1.35
42	17	316	A86	C5-C6	3.40	1.40	1.35
30	14	302	CLA	C4D-ND	-3.40	1.33	1.37
30	11	309	CLA	C1D-ND	3.40	1.42	1.37
32	Z	101	BCR	C1-C6	-3.39	1.49	1.53
30	18	312	CLA	C1D-ND	3.39	1.42	1.37
30	11	308	CLA	C4D-ND	-3.39	1.33	1.37
30	12	313	CLA	C4D-ND	-3.39	1.33	1.37
30	C	510	CLA	CMB-C2B	-3.39	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	15	302	CLA	C1D-ND	3.38	1.41	1.37
30	20	208	CLA	C4D-ND	-3.38	1.33	1.37
30	16	308	CLA	C4D-ND	-3.38	1.33	1.37
42	21	312	A86	C21-C20	3.38	1.57	1.51
30	A	404	CLA	C3B-C2B	-3.38	1.35	1.40
41	f	102	HEM	C3C-CAC	3.38	1.54	1.47
42	12	315	A86	C19-C18	3.38	1.57	1.52
32	A	405	BCR	C1-C6	-3.38	1.49	1.53
30	b	608	CLA	C3B-C2B	-3.38	1.35	1.40
30	13	306	CLA	C1D-ND	3.37	1.41	1.37
42	14	312	A86	C19-C18	3.37	1.57	1.52
42	13	311	A86	C19-C18	3.37	1.57	1.52
42	12	319	A86	C5-C6	3.37	1.40	1.35
30	20	203	CLA	C1D-ND	3.37	1.41	1.37
42	13	314	A86	C5-C6	3.37	1.40	1.35
30	17	309	CLA	C1D-ND	3.37	1.41	1.37
42	15	313	A86	C5-C6	3.37	1.40	1.35
42	18	313	A86	C19-C18	3.36	1.57	1.52
30	11	309	CLA	C4D-ND	-3.36	1.33	1.37
30	17	306	CLA	C1D-ND	3.36	1.41	1.37
30	21	303	CLA	C1D-ND	3.36	1.41	1.37
30	17	310	CLA	C1D-ND	3.36	1.41	1.37
30	17	307	CLA	C4D-ND	-3.36	1.33	1.37
30	12	306	CLA	C4D-ND	-3.35	1.33	1.37
42	21	311	A86	C5-C6	3.35	1.40	1.35
42	20	211	A86	C5-C6	3.35	1.40	1.35
30	15	303	CLA	C4D-ND	-3.35	1.33	1.37
30	12	309	CLA	C1D-ND	3.35	1.41	1.37
30	13	310	CLA	C1D-ND	3.35	1.41	1.37
30	11	302	CLA	C4D-ND	-3.35	1.33	1.37
30	14	311	CLA	C1D-ND	3.34	1.41	1.37
30	z	101	CLA	C1D-ND	3.34	1.41	1.37
30	18	301	CLA	C4D-ND	-3.34	1.33	1.37
30	19	304	CLA	C1D-ND	3.34	1.41	1.37
30	13	303	CLA	C4D-ND	-3.34	1.33	1.37
30	B	612	CLA	MG-ND	-3.34	1.99	2.05
30	16	301	CLA	C1D-ND	3.34	1.41	1.37
42	17	314	A86	C5-C6	3.34	1.40	1.35
30	11	305	CLA	C4D-ND	-3.33	1.33	1.37
30	18	307	CLA	C4D-ND	-3.33	1.33	1.37
40	D	407	PL9	C53-C6	-3.33	1.43	1.50
32	b	623	BCR	C1-C6	-3.33	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	19	303	CLA	C4D-ND	-3.33	1.33	1.37
30	16	302	CLA	C1D-ND	3.33	1.41	1.37
30	Z	102	CLA	C4D-ND	-3.33	1.33	1.37
30	21	303	CLA	C4D-ND	-3.33	1.33	1.37
30	16	303	CLA	C1D-ND	3.33	1.41	1.37
30	14	311	CLA	C4D-ND	-3.33	1.33	1.37
42	16	313	A86	C5-C6	3.33	1.40	1.35
42	17	302	A86	C5-C6	3.32	1.40	1.35
42	21	313	A86	C5-C6	3.32	1.40	1.35
30	C	519	CLA	C1D-ND	3.32	1.41	1.37
30	12	309	CLA	C4D-ND	-3.32	1.33	1.37
30	16	303	CLA	C4D-ND	-3.32	1.33	1.37
30	20	209	CLA	C1D-ND	3.32	1.41	1.37
30	20	206	CLA	C4D-ND	-3.32	1.33	1.37
41	v	201	HEM	C3C-CAC	3.31	1.54	1.47
30	b	612	CLA	MG-ND	-3.31	1.99	2.05
42	12	318	A86	C5-C6	3.31	1.40	1.35
30	11	307	CLA	C1D-ND	3.31	1.41	1.37
42	11	310	A86	C19-C18	3.31	1.57	1.52
30	C	520	CLA	C1D-ND	3.31	1.41	1.37
30	11	301	CLA	C1D-ND	3.31	1.41	1.37
30	19	303	CLA	C1D-ND	3.31	1.41	1.37
30	13	306	CLA	C4D-ND	-3.31	1.33	1.37
30	13	309	CLA	C4D-ND	-3.31	1.33	1.37
30	18	304	CLA	C1D-ND	3.31	1.41	1.37
42	21	310	A86	C5-C6	3.31	1.40	1.35
42	17	302	A86	C19-C18	3.31	1.57	1.52
30	b	615	CLA	C1D-ND	3.31	1.41	1.37
30	18	309	CLA	C1D-ND	3.31	1.41	1.37
30	15	307	CLA	C1D-ND	3.31	1.41	1.37
30	12	312	CLA	C1D-ND	3.30	1.41	1.37
30	13	305	CLA	C1D-ND	3.30	1.41	1.37
30	17	304	CLA	C1D-ND	3.30	1.41	1.37
30	b	610	CLA	C3B-C2B	-3.30	1.35	1.40
30	c	503	CLA	C1D-ND	3.30	1.41	1.37
30	20	207	CLA	C1D-ND	3.30	1.41	1.37
30	11	304	CLA	C1D-ND	3.30	1.41	1.37
42	19	312	A86	C5-C6	3.30	1.40	1.35
30	B	615	CLA	C1D-ND	3.30	1.41	1.37
30	12	314	CLA	C1D-ND	3.30	1.41	1.37
30	14	303	CLA	C1D-ND	3.30	1.41	1.37
30	14	307	CLA	C4D-ND	-3.29	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	15	310	A86	C19-C18	3.29	1.57	1.52
30	16	301	CLA	C4D-ND	-3.29	1.33	1.37
41	V	201	HEM	C3C-CAC	3.29	1.54	1.47
30	13	308	CLA	C1D-ND	3.29	1.41	1.37
30	20	203	CLA	C4D-ND	-3.29	1.33	1.37
30	16	308	CLA	C1D-ND	3.28	1.41	1.37
30	20	202	CLA	C4D-ND	-3.28	1.33	1.37
40	d	408	PL9	C53-C6	-3.28	1.43	1.50
30	c	511	CLA	CMD-C2D	-3.28	1.43	1.50
30	C	512	CLA	C1D-ND	3.28	1.41	1.37
30	d	401	CLA	CMB-C2B	-3.28	1.44	1.51
30	19	309	CLA	C1D-ND	3.28	1.41	1.37
32	F	101	BCR	C1-C6	-3.28	1.49	1.53
30	12	308	CLA	C4D-ND	-3.27	1.33	1.37
30	12	305	CLA	C1D-ND	3.27	1.41	1.37
30	14	309	CLA	C1D-ND	3.27	1.41	1.37
30	D	401	CLA	CMB-C2B	-3.27	1.44	1.51
42	19	310	A86	C5-C6	3.27	1.40	1.35
30	C	503	CLA	C1D-ND	3.27	1.41	1.37
30	12	311	CLA	C1D-ND	3.27	1.41	1.37
30	18	308	CLA	C4D-ND	-3.27	1.33	1.37
30	16	306	CLA	C4D-ND	-3.27	1.33	1.37
30	C	511	CLA	CMD-C2D	-3.26	1.43	1.50
30	15	306	CLA	C4D-ND	-3.26	1.33	1.37
30	c	512	CLA	C1D-ND	3.26	1.41	1.37
42	21	312	A86	C5-C6	3.26	1.40	1.35
42	14	313	A86	C5-C6	3.25	1.40	1.35
30	12	303	CLA	C1D-ND	3.25	1.41	1.37
42	17	312	A86	C5-C6	3.25	1.40	1.35
30	15	303	CLA	C1D-ND	3.25	1.41	1.37
30	19	302	CLA	C1D-ND	3.25	1.41	1.37
30	21	305	CLA	C4D-ND	-3.25	1.33	1.37
30	b	604	CLA	C1D-ND	3.25	1.41	1.37
42	13	312	A86	C5-C6	3.24	1.40	1.35
30	14	310	CLA	C1D-ND	3.24	1.41	1.37
30	13	302	CLA	C1D-ND	3.24	1.41	1.37
42	14	313	A86	C19-C18	3.24	1.57	1.52
30	B	605	CLA	C3B-C2B	-3.24	1.35	1.40
30	19	301	CLA	C1D-ND	3.23	1.41	1.37
30	a	403	CLA	C3B-CAB	-3.23	1.41	1.47
42	19	312	A86	C19-C18	3.23	1.57	1.52
30	B	611	CLA	C3B-C2B	-3.23	1.35	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	17	308	CLA	C1D-ND	3.23	1.41	1.37
42	18	314	A86	C19-C18	3.23	1.57	1.52
30	15	308	CLA	C4D-ND	-3.22	1.33	1.37
30	15	309	CLA	C4D-ND	-3.22	1.33	1.37
30	11	315	CLA	C1D-ND	3.22	1.41	1.37
30	14	304	CLA	C4D-ND	-3.22	1.33	1.37
32	B	624	BCR	C1-C6	-3.22	1.49	1.53
30	14	302	CLA	C1D-ND	3.22	1.41	1.37
42	11	311	A86	C19-C18	3.22	1.57	1.52
30	b	605	CLA	C3B-C2B	-3.21	1.35	1.40
42	19	310	A86	C19-C18	3.21	1.57	1.52
30	18	311	CLA	C1D-ND	3.21	1.41	1.37
30	w	103	CLA	C4D-ND	-3.21	1.33	1.37
30	11	304	CLA	C4D-ND	-3.21	1.33	1.37
30	13	309	CLA	C1D-ND	3.21	1.41	1.37
30	B	610	CLA	C3B-C2B	-3.20	1.35	1.40
30	17	304	CLA	C4D-ND	-3.20	1.33	1.37
32	f	101	BCR	C1-C6	-3.20	1.49	1.53
42	19	311	A86	C25-C24	3.20	1.42	1.34
30	13	310	CLA	C4D-ND	-3.20	1.33	1.37
42	12	316	A86	C5-C6	3.20	1.40	1.35
30	14	306	CLA	C4D-ND	-3.20	1.33	1.37
30	17	308	CLA	CMB-C2B	-3.20	1.45	1.51
30	14	306	CLA	C1D-ND	3.20	1.41	1.37
30	13	305	CLA	C4D-ND	-3.20	1.33	1.37
42	15	311	A86	C19-C18	3.20	1.56	1.52
30	18	311	CLA	C4D-ND	-3.19	1.33	1.37
30	12	310	CLA	C1D-ND	3.19	1.41	1.37
30	12	314	CLA	C4D-ND	-3.19	1.33	1.37
42	15	311	A86	C5-C6	3.19	1.40	1.35
30	18	312	CLA	C4D-ND	-3.19	1.33	1.37
30	B	604	CLA	C1D-ND	3.19	1.41	1.37
30	11	308	CLA	C1D-ND	3.19	1.41	1.37
30	C	503	CLA	CMB-C2B	-3.19	1.45	1.51
42	15	311	A86	C25-C24	3.19	1.42	1.34
42	21	313	A86	C19-C18	3.19	1.56	1.52
42	16	311	A86	C25-C24	3.18	1.42	1.34
30	A	404	CLA	C3B-CAB	-3.18	1.41	1.47
42	11	311	A86	C25-C24	3.18	1.42	1.34
30	17	306	CLA	C4D-ND	-3.18	1.33	1.37
42	13	312	A86	C19-C18	3.18	1.56	1.52
30	c	507	CLA	C3B-C2B	-3.18	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	21	309	CLA	C4D-ND	-3.18	1.33	1.37
42	11	311	A86	C5-C6	3.18	1.40	1.35
42	12	316	A86	C25-C24	3.17	1.42	1.34
30	17	307	CLA	C1D-ND	3.17	1.41	1.37
30	C	505	CLA	CMB-C2B	-3.17	1.45	1.51
30	18	303	CLA	C1D-ND	3.17	1.41	1.37
30	12	308	CLA	C1D-ND	3.17	1.41	1.37
42	12	316	A86	C19-C18	3.17	1.56	1.52
30	20	205	CLA	C4D-ND	-3.16	1.33	1.37
30	21	308	CLA	C4D-ND	-3.16	1.33	1.37
42	17	312	A86	C25-C24	3.16	1.42	1.34
32	b	616	BCR	C1-C6	-3.16	1.49	1.53
30	12	307	CLA	C1D-ND	3.16	1.41	1.37
32	c	521	BCR	C1-C6	-3.16	1.49	1.53
42	13	312	A86	C25-C24	3.16	1.42	1.34
30	14	308	CLA	C4D-ND	-3.16	1.33	1.37
42	13	311	A86	C5-C6	3.15	1.40	1.35
30	b	608	CLA	CMB-C2B	-3.15	1.45	1.51
42	16	311	A86	C5-C6	3.15	1.40	1.35
30	b	611	CLA	C3B-C2B	-3.15	1.36	1.40
30	13	303	CLA	C1D-ND	3.15	1.41	1.37
32	B	617	BCR	C1-C6	-3.15	1.49	1.53
30	b	604	CLA	CMB-C2B	-3.15	1.45	1.51
42	17	312	A86	C19-C18	3.15	1.56	1.52
30	17	309	CLA	C4D-ND	-3.15	1.33	1.37
30	c	506	CLA	C3B-C2B	-3.15	1.36	1.40
39	c	518	DGD	O2G-C2G	-3.15	1.38	1.46
30	B	604	CLA	CMB-C2B	-3.14	1.45	1.51
42	20	211	A86	C19-C18	3.14	1.56	1.52
30	20	204	CLA	C1D-ND	3.14	1.41	1.37
39	C	517	DGD	O2G-C2G	-3.14	1.38	1.46
42	14	313	A86	C25-C24	3.14	1.42	1.34
42	16	311	A86	C19-C18	3.14	1.56	1.52
30	21	304	CLA	C4D-ND	-3.14	1.33	1.37
30	B	603	CLA	CMB-C2B	-3.14	1.45	1.51
30	W	103	CLA	C4D-ND	-3.13	1.33	1.37
30	21	307	CLA	C4D-ND	-3.13	1.33	1.37
30	B	605	CLA	C1D-ND	3.13	1.41	1.37
30	B	608	CLA	CMB-C2B	-3.13	1.45	1.51
30	16	307	CLA	CHC-C1C	3.13	1.43	1.35
30	17	301	CLA	C1D-ND	3.13	1.41	1.37
42	20	210	A86	C25-C24	3.12	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	c	503	CLA	CMB-C2B	-3.12	1.45	1.51
30	12	313	CLA	C1D-ND	3.12	1.41	1.37
30	13	307	CLA	C4D-ND	-3.12	1.33	1.37
30	18	304	CLA	C4D-ND	-3.12	1.33	1.37
30	18	301	CLA	C1D-ND	3.12	1.41	1.37
30	14	304	CLA	C1D-ND	3.12	1.41	1.37
30	15	305	CLA	CHC-C1C	3.12	1.43	1.35
42	20	201	A86	C25-C24	3.11	1.42	1.34
42	19	312	A86	C25-C24	3.11	1.42	1.34
30	14	308	CLA	C1D-ND	3.11	1.41	1.37
37	B	625	LMU	O5'-C1'	3.11	1.49	1.41
30	21	301	CLA	C4D-ND	-3.11	1.33	1.37
35	L	102	LHG	O7-C5	-3.11	1.38	1.46
42	14	312	A86	C5-C6	3.11	1.39	1.35
32	b	617	BCR	C1-C6	-3.10	1.49	1.53
42	18	313	A86	C5-C6	3.10	1.39	1.35
42	21	311	A86	C19-C18	3.10	1.56	1.52
32	C	518	BCR	C1-C6	-3.10	1.49	1.53
30	15	308	CLA	C1D-ND	3.10	1.41	1.37
30	c	505	CLA	CMB-C2B	-3.10	1.45	1.51
37	12	302	LMU	O5'-C1'	3.10	1.49	1.41
42	20	212	A86	C25-C24	3.10	1.42	1.34
30	C	505	CLA	C3B-C2B	-3.10	1.36	1.40
30	b	603	CLA	CMB-C2B	-3.10	1.45	1.51
30	C	507	CLA	C3B-C2B	-3.10	1.36	1.40
30	d	401	CLA	C3B-C2B	-3.10	1.36	1.40
42	11	312	A86	C25-C24	3.10	1.42	1.34
30	15	301	CLA	C1D-ND	3.10	1.41	1.37
30	11	302	CLA	C1D-ND	3.09	1.41	1.37
30	15	305	CLA	C4D-ND	-3.09	1.33	1.37
30	17	308	CLA	C3B-C2B	-3.09	1.36	1.40
40	D	407	PL9	C36-C34	-3.09	1.44	1.51
42	15	312	A86	C25-C24	3.09	1.42	1.34
42	17	313	A86	C25-C24	3.09	1.42	1.34
36	b	619	LMG	O8-C9	-3.09	1.38	1.45
30	b	601	CLA	C1D-ND	3.09	1.41	1.37
42	14	314	A86	C25-C24	3.09	1.42	1.34
32	B	618	BCR	C30-C25	-3.09	1.49	1.53
30	13	307	CLA	C1D-ND	3.08	1.41	1.37
30	18	305	CLA	C1D-ND	3.08	1.41	1.37
32	B	618	BCR	C1-C6	-3.08	1.49	1.53
32	A	405	BCR	C30-C25	-3.08	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	c	505	CLA	C3B-C2B	-3.08	1.36	1.40
42	18	314	A86	C25-C24	3.08	1.42	1.34
30	15	301	CLA	CHC-C1C	3.07	1.42	1.35
42	17	311	A86	C25-C24	3.07	1.42	1.34
42	13	313	A86	C25-C24	3.07	1.42	1.34
32	a	404	BCR	C30-C25	-3.07	1.49	1.53
30	16	305	CLA	C4D-ND	-3.07	1.33	1.37
30	12	306	CLA	C1D-ND	3.07	1.41	1.37
30	b	615	CLA	CMB-C2B	-3.07	1.45	1.51
40	d	408	PL9	C36-C34	-3.07	1.44	1.51
30	11	306	CLA	C4D-ND	-3.06	1.33	1.37
36	c	519	LMG	O7-C8	-3.06	1.38	1.46
30	18	310	CLA	C4D-ND	-3.06	1.33	1.37
30	12	310	CLA	C4D-ND	-3.06	1.33	1.37
42	21	311	A86	C25-C24	3.06	1.42	1.34
30	b	605	CLA	C1D-ND	3.06	1.41	1.37
42	21	313	A86	C25-C24	3.06	1.42	1.34
31	D	403	PHO	CAC-C3C	-3.05	1.46	1.52
30	17	303	CLA	C1D-ND	3.05	1.41	1.37
30	15	304	CLA	C4D-ND	-3.05	1.33	1.37
35	l	102	LHG	O7-C5	-3.05	1.39	1.46
36	Q	301	LMG	O7-C8	-3.05	1.39	1.46
42	19	311	A86	C17-C18	-3.04	1.47	1.52
42	12	317	A86	C25-C24	3.04	1.42	1.34
30	C	511	CLA	CHC-C1C	3.04	1.42	1.35
36	B	620	LMG	O8-C9	-3.04	1.38	1.45
42	16	312	A86	C25-C24	3.04	1.42	1.34
42	20	211	A86	C25-C24	3.04	1.42	1.34
33	L	103	SQD	O47-C7	3.04	1.42	1.34
39	J	101	DGD	O2G-C2G	-3.04	1.39	1.46
30	21	306	CLA	C4D-ND	-3.03	1.33	1.37
30	B	610	CLA	CMB-C2B	-3.03	1.45	1.51
42	12	315	A86	C5-C6	3.03	1.39	1.35
39	j	101	DGD	O2G-C2G	-3.03	1.39	1.46
30	D	401	CLA	C3B-C2B	-3.03	1.36	1.40
42	11	310	A86	C5-C6	3.02	1.39	1.35
30	19	304	CLA	C4D-ND	-3.02	1.33	1.37
30	c	512	CLA	CHC-C1C	3.02	1.42	1.35
30	18	307	CLA	CHC-C1C	3.02	1.42	1.35
30	B	615	CLA	CMB-C2B	-3.02	1.45	1.51
31	d	404	PHO	CAC-C3C	-3.02	1.46	1.52
42	12	317	A86	C19-C18	3.02	1.56	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	11	312	A86	C19-C18	3.02	1.56	1.52
30	b	606	CLA	C1D-ND	3.01	1.41	1.37
30	c	511	CLA	CHC-C1C	3.01	1.42	1.35
39	c	517	DGD	O1G-C1G	-3.01	1.38	1.45
42	19	311	A86	C21-C20	3.01	1.56	1.51
30	20	202	CLA	CHC-C1C	3.01	1.42	1.35
42	13	314	A86	C25-C24	3.01	1.42	1.34
42	12	304	A86	C19-C18	3.01	1.56	1.52
33	l	101	SQD	O47-C7	3.01	1.42	1.34
42	15	312	A86	C19-C18	3.00	1.56	1.52
30	B	601	CLA	C1D-ND	3.00	1.41	1.37
30	14	305	CLA	C1D-ND	3.00	1.41	1.37
30	19	306	CLA	C1D-ND	3.00	1.41	1.37
30	16	306	CLA	CMB-C2B	-3.00	1.45	1.51
30	21	309	CLA	CHC-C1C	3.00	1.42	1.35
42	15	310	A86	C5-C6	3.00	1.39	1.35
30	b	606	CLA	CMB-C2B	-2.99	1.45	1.51
42	13	315	A86	C25-C24	2.99	1.42	1.34
42	18	315	A86	C25-C24	2.99	1.42	1.34
30	21	301	CLA	CHC-C1C	2.99	1.42	1.35
30	11	306	CLA	C1D-ND	2.99	1.41	1.37
30	14	303	CLA	CHC-C1C	2.99	1.42	1.35
30	b	622	CLA	CMD-C2D	-2.99	1.44	1.50
42	17	302	A86	C25-C24	2.99	1.42	1.34
30	15	307	CLA	CHC-C1C	2.99	1.42	1.35
42	11	313	A86	C25-C24	2.98	1.42	1.34
30	11	301	CLA	CHC-C1C	2.98	1.42	1.35
42	16	310	A86	C25-C24	2.98	1.42	1.34
30	12	305	CLA	CHC-C1C	2.98	1.42	1.35
30	18	305	CLA	CHC-C1C	2.98	1.42	1.35
42	21	312	A86	C25-C24	2.98	1.42	1.34
30	A	404	CLA	CMB-C2B	-2.98	1.45	1.51
30	B	606	CLA	CMB-C2B	-2.98	1.45	1.51
30	W	102	CLA	C1D-ND	2.98	1.41	1.37
36	D	408	LMG	O7-C8	-2.98	1.39	1.46
30	b	609	CLA	CMB-C2B	-2.98	1.45	1.51
36	c	519	LMG	O1-C7	-2.98	1.38	1.43
30	19	307	CLA	C1D-ND	2.98	1.41	1.37
42	14	315	A86	C25-C24	2.98	1.42	1.34
42	14	314	A86	C19-C18	2.98	1.56	1.52
30	B	605	CLA	CMB-C2B	-2.97	1.45	1.51
42	20	213	A86	C25-C24	2.97	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	D	402	CLA	C1D-ND	2.97	1.41	1.37
30	B	623	CLA	CMD-C2D	-2.97	1.44	1.50
30	w	103	CLA	CHC-C1C	2.97	1.42	1.35
42	21	314	A86	C25-C24	2.97	1.42	1.34
42	17	314	A86	C25-C24	2.97	1.42	1.34
30	d	402	CLA	C1D-ND	2.97	1.41	1.37
36	Q	301	LMG	O1-C7	-2.97	1.38	1.43
30	C	512	CLA	CHC-C1C	2.97	1.42	1.35
42	15	315	A86	C19-C18	2.97	1.56	1.52
30	11	303	CLA	C1D-ND	2.97	1.41	1.37
36	d	410	LMG	O7-C8	-2.97	1.39	1.46
42	21	312	A86	C19-C18	2.97	1.56	1.52
39	C	516	DGD	O1G-C1G	-2.97	1.38	1.45
30	13	304	CLA	C1D-ND	2.97	1.41	1.37
30	15	304	CLA	CHC-C1C	2.97	1.42	1.35
42	16	312	A86	C19-C18	2.97	1.56	1.52
30	b	610	CLA	CMB-C2B	-2.97	1.45	1.51
32	b	617	BCR	C30-C25	-2.97	1.49	1.53
32	c	520	BCR	C30-C25	-2.96	1.49	1.53
30	a	403	CLA	CMB-C2B	-2.96	1.45	1.51
30	13	302	CLA	CHC-C1C	2.96	1.42	1.35
30	b	605	CLA	CMB-C2B	-2.96	1.45	1.51
42	12	318	A86	C25-C24	2.96	1.42	1.34
30	C	506	CLA	C3B-C2B	-2.96	1.36	1.40
30	W	103	CLA	CHC-C1C	2.96	1.42	1.35
42	17	313	A86	C19-C18	2.96	1.56	1.52
42	15	313	A86	C25-C24	2.96	1.42	1.34
30	C	508	CLA	CMB-C2B	-2.96	1.45	1.51
42	17	315	A86	C25-C24	2.96	1.42	1.34
42	13	301	A86	C25-C24	2.96	1.42	1.34
30	C	506	CLA	C1D-ND	2.96	1.41	1.37
30	15	302	CLA	C4D-ND	-2.96	1.33	1.37
30	18	303	CLA	CHC-C1C	2.96	1.42	1.35
42	12	304	A86	C25-C24	2.95	1.42	1.34
30	c	508	CLA	CMB-C2B	-2.95	1.45	1.51
30	15	303	CLA	CHC-C1C	2.95	1.42	1.35
30	16	309	CLA	CHC-C1C	2.95	1.42	1.35
30	18	306	CLA	C4D-ND	-2.95	1.33	1.37
42	13	301	A86	C19-C18	2.95	1.56	1.52
32	b	616	BCR	C30-C25	-2.95	1.49	1.53
42	13	313	A86	C19-C18	2.94	1.56	1.52
33	B	621	SQD	O48-C23	2.94	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	B	606	CLA	C1D-ND	2.94	1.41	1.37
30	21	307	CLA	CHC-C1C	2.94	1.42	1.35
30	c	506	CLA	C1D-ND	2.94	1.41	1.37
30	m	101	CLA	CHC-C1C	2.94	1.42	1.35
30	21	308	CLA	CHC-C1C	2.94	1.42	1.35
30	B	607	CLA	CMB-C2B	-2.94	1.45	1.51
30	b	601	CLA	CMB-C2B	-2.94	1.45	1.51
32	H	101	BCR	C30-C25	-2.94	1.49	1.53
30	19	305	CLA	C1D-ND	2.94	1.41	1.37
30	19	308	CLA	C1D-ND	2.93	1.41	1.37
42	18	302	A86	C25-C24	2.93	1.42	1.34
42	15	315	A86	C25-C24	2.93	1.42	1.34
30	B	609	CLA	C3B-C2B	-2.93	1.36	1.40
30	20	209	CLA	CMB-C2B	-2.93	1.45	1.51
30	M	101	CLA	CHC-C1C	2.93	1.42	1.35
30	17	301	CLA	CMB-C2B	-2.93	1.45	1.51
32	a	408	BCR	C1-C6	-2.93	1.49	1.53
30	c	509	CLA	C3B-C2B	-2.93	1.36	1.40
42	15	316	A86	C19-C18	2.93	1.56	1.52
30	w	102	CLA	C1D-ND	2.93	1.41	1.37
30	16	304	CLA	C1D-ND	2.92	1.41	1.37
30	20	209	CLA	CHC-C1C	2.92	1.42	1.35
42	11	316	A86	C25-C24	2.92	1.42	1.34
30	13	308	CLA	CHC-C1C	2.92	1.42	1.35
30	c	504	CLA	C1D-ND	2.92	1.41	1.37
33	b	620	SQD	O48-C23	2.92	1.41	1.33
30	d	407	CLA	CMB-C2B	-2.92	1.45	1.51
42	21	310	A86	O-C13	-2.92	1.17	1.23
30	M	101	CLA	CMB-C2B	-2.92	1.45	1.51
42	11	316	A86	C19-C18	2.91	1.56	1.52
30	18	312	CLA	CHC-C1C	2.91	1.42	1.35
30	11	307	CLA	CHC-C1C	2.91	1.42	1.35
30	D	406	CLA	CMB-C2B	-2.91	1.45	1.51
42	19	310	A86	C25-C24	2.91	1.42	1.34
42	13	315	A86	C19-C18	2.91	1.56	1.52
42	18	302	A86	C19-C18	2.91	1.56	1.52
30	12	309	CLA	CHC-C1C	2.91	1.42	1.35
30	b	609	CLA	C1D-ND	2.91	1.41	1.37
30	b	622	CLA	CMB-C2B	-2.91	1.45	1.51
35	b	621	LHG	O7-C5	-2.90	1.39	1.46
30	15	309	CLA	CHC-C1C	2.90	1.42	1.35
30	21	306	CLA	CHC-C1C	2.90	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C	511	CLA	MG-ND	-2.90	2.00	2.05
30	16	304	CLA	CMB-C2B	-2.90	1.45	1.51
30	B	609	CLA	CMB-C2B	-2.90	1.45	1.51
30	C	503	CLA	MG-ND	-2.90	2.00	2.05
30	14	307	CLA	CHC-C1C	2.90	1.42	1.35
30	B	623	CLA	CHC-C1C	2.90	1.42	1.35
30	12	311	CLA	CHC-C1C	2.90	1.42	1.35
40	d	408	PL9	C26-C24	-2.90	1.45	1.51
30	18	309	CLA	CHC-C1C	2.90	1.42	1.35
30	c	503	CLA	CMC-C2C	-2.90	1.44	1.50
30	16	302	CLA	CMB-C2B	-2.89	1.45	1.51
30	18	308	CLA	CHC-C1C	2.89	1.42	1.35
30	D	401	CLA	C3B-CAB	-2.89	1.42	1.47
30	12	314	CLA	CHC-C1C	2.89	1.42	1.35
30	14	311	CLA	CHC-C1C	2.89	1.42	1.35
30	13	306	CLA	CHC-C1C	2.89	1.42	1.35
32	Y	101	BCR	C30-C25	-2.89	1.49	1.53
30	C	504	CLA	C1D-ND	2.89	1.41	1.37
42	15	316	A86	C25-C24	2.89	1.42	1.34
30	B	601	CLA	CMB-C2B	-2.89	1.45	1.51
30	m	101	CLA	CMB-C2B	-2.89	1.45	1.51
30	b	622	CLA	CHC-C1C	2.89	1.42	1.35
30	C	508	CLA	MG-ND	-2.88	2.00	2.05
30	15	306	CLA	CHC-C1C	2.88	1.42	1.35
30	b	614	CLA	C1D-ND	2.88	1.41	1.37
42	20	201	A86	C24-C1	2.88	1.52	1.45
30	W	102	CLA	CMB-C2B	-2.88	1.45	1.51
35	B	622	LHG	O7-C5	-2.88	1.39	1.46
30	D	405	CLA	CMD-C2D	-2.88	1.44	1.50
30	b	608	CLA	CHC-C1C	2.87	1.42	1.35
32	B	617	BCR	C30-C25	-2.87	1.49	1.53
30	13	307	CLA	CMB-C2B	-2.87	1.45	1.51
30	c	508	CLA	C1D-ND	2.87	1.41	1.37
30	17	305	CLA	C1D-ND	2.87	1.41	1.37
30	B	608	CLA	CHC-C1C	2.87	1.42	1.35
30	18	309	CLA	CMB-C2B	-2.87	1.45	1.51
30	12	310	CLA	CMB-C2B	-2.87	1.45	1.51
30	c	513	CLA	C1D-ND	2.87	1.41	1.37
30	b	609	CLA	C3B-C2B	-2.87	1.36	1.40
30	C	514	CLA	C1D-ND	2.87	1.41	1.37
30	19	305	CLA	CMB-C2B	-2.86	1.45	1.51
30	16	307	CLA	C1D-ND	2.86	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	13	311	A86	C25-C24	2.86	1.42	1.34
30	B	609	CLA	C1D-ND	2.86	1.41	1.37
30	w	102	CLA	CMB-C2B	-2.86	1.45	1.51
30	20	208	CLA	CHC-C1C	2.86	1.42	1.35
30	14	309	CLA	CHC-C1C	2.86	1.42	1.35
30	21	303	CLA	CHC-C1C	2.86	1.42	1.35
30	c	511	CLA	MG-ND	-2.86	2.00	2.05
40	d	408	PL9	C11-C9	-2.86	1.45	1.51
30	C	513	CLA	C1D-ND	2.86	1.41	1.37
30	c	514	CLA	CHC-C1C	2.86	1.42	1.35
30	D	402	CLA	CMB-C2B	-2.86	1.45	1.51
30	13	310	CLA	CHC-C1C	2.86	1.42	1.35
30	c	503	CLA	MG-ND	-2.85	2.00	2.05
30	C	509	CLA	C3B-C2B	-2.85	1.36	1.40
30	15	308	CLA	CHC-C1C	2.85	1.42	1.35
42	18	313	A86	C25-C24	2.85	1.41	1.34
30	B	611	CLA	CMC-C2C	-2.85	1.44	1.50
30	B	602	CLA	CHC-C1C	2.85	1.42	1.35
30	19	303	CLA	CHC-C1C	2.85	1.42	1.35
30	18	306	CLA	CHC-C1C	2.85	1.42	1.35
30	19	306	CLA	C3B-C2B	-2.85	1.36	1.40
30	11	309	CLA	CHC-C1C	2.85	1.42	1.35
30	b	611	CLA	CMC-C2C	-2.85	1.44	1.50
32	A	409	BCR	C1-C6	-2.85	1.49	1.53
30	b	607	CLA	CMB-C2B	-2.85	1.45	1.51
30	C	503	CLA	CMC-C2C	-2.84	1.44	1.50
42	17	316	A86	C19-C18	2.84	1.56	1.52
30	b	601	CLA	C3B-C2B	-2.84	1.36	1.40
30	C	520	CLA	CHC-C1C	2.84	1.42	1.35
30	c	508	CLA	MG-ND	-2.84	2.00	2.05
40	D	407	PL9	C11-C9	-2.84	1.45	1.51
30	c	506	CLA	CMD-C2D	-2.84	1.44	1.50
30	C	508	CLA	C1D-ND	2.84	1.41	1.37
30	B	601	CLA	C3B-C2B	-2.84	1.36	1.40
30	21	305	CLA	CHC-C1C	2.84	1.42	1.35
30	C	506	CLA	CMD-C2D	-2.84	1.44	1.50
30	16	308	CLA	CMB-C2B	-2.84	1.45	1.51
30	20	207	CLA	CHC-C1C	2.84	1.42	1.35
30	17	303	CLA	CHC-C1C	2.84	1.42	1.35
30	B	607	CLA	C1D-ND	2.83	1.41	1.37
31	A	403	PHO	CBD-CGD	-2.83	1.48	1.52
30	b	606	CLA	CMD-C2D	-2.83	1.44	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	16	304	CLA	CHC-C1C	2.83	1.42	1.35
30	d	402	CLA	CMB-C2B	-2.83	1.45	1.51
31	d	403	PHO	CBD-CGD	-2.83	1.48	1.52
30	b	612	CLA	CMB-C2B	-2.83	1.45	1.51
30	d	406	CLA	CMD-C2D	-2.83	1.44	1.50
30	d	401	CLA	C3B-CAB	-2.83	1.42	1.47
30	C	514	CLA	CHC-C1C	2.83	1.42	1.35
30	B	603	CLA	C3B-C2B	-2.83	1.36	1.40
42	15	314	A86	C25-C24	2.83	1.41	1.34
42	21	310	A86	C25-C24	2.83	1.41	1.34
30	19	301	CLA	CHC-C1C	2.83	1.42	1.35
30	c	514	CLA	C1D-ND	2.83	1.41	1.37
30	C	512	CLA	CMB-C2B	-2.83	1.45	1.51
30	B	605	CLA	CHC-C1C	2.83	1.42	1.35
42	14	316	A86	C25-C24	2.82	1.41	1.34
30	11	305	CLA	CHC-C1C	2.82	1.42	1.35
30	B	623	CLA	CMB-C2B	-2.82	1.45	1.51
30	b	604	CLA	MG-ND	-2.82	2.00	2.05
30	B	612	CLA	CMB-C2B	-2.82	1.45	1.51
32	c	516	BCR	C30-C25	-2.82	1.49	1.53
42	14	301	A86	C25-C24	2.82	1.41	1.34
30	17	306	CLA	CHC-C1C	2.82	1.42	1.35
30	19	306	CLA	CMB-C2B	-2.82	1.45	1.51
33	A	406	SQD	O48-C23	2.82	1.41	1.33
40	D	407	PL9	C26-C24	-2.82	1.45	1.51
30	19	305	CLA	CHC-C1C	2.82	1.42	1.35
30	a	402	CLA	C1D-ND	2.82	1.41	1.37
42	16	313	A86	C25-C24	2.82	1.41	1.34
30	11	306	CLA	CHC-C1C	2.82	1.42	1.35
32	A	409	BCR	C30-C25	-2.81	1.49	1.53
30	c	506	CLA	CMB-C2B	-2.81	1.45	1.51
30	17	308	CLA	C3B-CAB	-2.81	1.42	1.47
30	D	401	CLA	CMD-C2D	-2.81	1.44	1.50
30	C	504	CLA	CMD-C2D	-2.81	1.44	1.50
42	11	314	A86	C25-C24	2.81	1.41	1.34
30	c	504	CLA	CMD-C2D	-2.81	1.44	1.50
30	21	304	CLA	CHC-C1C	2.81	1.42	1.35
30	11	306	CLA	CMB-C2B	-2.81	1.45	1.51
30	b	602	CLA	CHC-C1C	2.81	1.42	1.35
42	17	316	A86	C25-C24	2.81	1.41	1.34
30	d	402	CLA	C3B-C2B	-2.80	1.36	1.40
30	B	614	CLA	C1D-ND	2.80	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	16	309	CLA	C1D-ND	2.80	1.41	1.37
30	B	606	CLA	CMD-C2D	-2.80	1.44	1.50
33	a	405	SQD	O48-C23	2.80	1.41	1.33
30	Z	102	CLA	CHC-C1C	2.80	1.42	1.35
30	C	506	CLA	CMB-C2B	-2.80	1.45	1.51
32	a	408	BCR	C30-C25	-2.80	1.49	1.53
30	21	302	CLA	CHC-C1C	2.80	1.42	1.35
42	11	310	A86	C25-C24	2.80	1.41	1.34
42	14	312	A86	C25-C24	2.80	1.41	1.34
30	20	204	CLA	CHC-C1C	2.79	1.42	1.35
42	15	310	A86	C25-C24	2.79	1.41	1.34
30	b	605	CLA	CHC-C1C	2.79	1.42	1.35
42	12	319	A86	C25-C24	2.79	1.41	1.34
42	19	310	A86	O-C13	-2.79	1.17	1.23
30	14	310	CLA	CHC-C1C	2.79	1.42	1.35
30	12	313	CLA	CHC-C1C	2.79	1.42	1.35
30	d	402	CLA	CHC-C1C	2.79	1.42	1.35
30	11	303	CLA	CHC-C1C	2.79	1.42	1.35
30	12	307	CLA	CHC-C1C	2.79	1.42	1.35
30	c	512	CLA	CMB-C2B	-2.79	1.45	1.51
30	A	402	CLA	C1D-ND	2.79	1.41	1.37
30	19	302	CLA	CHC-C1C	2.78	1.42	1.35
30	13	304	CLA	CHC-C1C	2.78	1.42	1.35
42	17	302	A86	O-C13	-2.78	1.17	1.23
30	D	402	CLA	CHC-C1C	2.78	1.42	1.35
30	16	301	CLA	CHC-C1C	2.78	1.42	1.35
30	c	513	CLA	CMB-C2B	-2.78	1.45	1.51
40	d	405	PL9	C53-C6	-2.78	1.44	1.50
40	d	408	PL9	C41-C39	-2.78	1.45	1.51
40	D	407	PL9	C41-C39	-2.78	1.45	1.51
40	D	404	PL9	C6-C1	-2.78	1.43	1.48
40	d	405	PL9	C6-C1	-2.78	1.43	1.48
42	11	314	A86	C19-C18	2.78	1.56	1.52
42	14	316	A86	C19-C18	2.78	1.56	1.52
39	J	101	DGD	O5D-C6D	-2.77	1.38	1.43
30	b	603	CLA	C3B-C2B	-2.77	1.36	1.40
30	12	306	CLA	CHC-C1C	2.77	1.42	1.35
42	16	310	A86	O-C13	-2.77	1.17	1.23
30	B	604	CLA	MG-ND	-2.77	2.00	2.05
30	a	403	CLA	CMD-C2D	-2.77	1.44	1.50
30	13	309	CLA	CHC-C1C	2.77	1.42	1.35
30	13	307	CLA	CHC-C1C	2.77	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	B	613	CLA	CHC-C1C	2.77	1.42	1.35
30	B	602	CLA	CMB-C2B	-2.77	1.45	1.51
39	c	518	DGD	O6D-C5D	-2.77	1.37	1.44
30	B	612	CLA	CMC-C2C	-2.76	1.44	1.50
30	19	307	CLA	CHC-C1C	2.76	1.42	1.35
30	15	302	CLA	CHC-C1C	2.76	1.42	1.35
30	14	308	CLA	CMB-C2B	-2.76	1.45	1.51
30	18	310	CLA	CHC-C1C	2.76	1.42	1.35
32	h	101	BCR	C30-C25	-2.76	1.50	1.53
30	14	305	CLA	CHC-C1C	2.76	1.42	1.35
30	18	311	CLA	CHC-C1C	2.76	1.42	1.35
41	F	102	HEM	CAB-C3B	2.76	1.54	1.47
30	17	303	CLA	CMB-C2B	-2.76	1.45	1.51
30	20	203	CLA	CMB-C2B	-2.76	1.45	1.51
30	17	307	CLA	CHC-C1C	2.76	1.42	1.35
42	20	213	A86	O-C13	-2.76	1.17	1.23
41	V	201	HEM	CAB-C3B	2.76	1.54	1.47
30	11	304	CLA	CHC-C1C	2.76	1.42	1.35
42	21	314	A86	O-C13	-2.76	1.17	1.23
41	v	201	HEM	CAB-C3B	2.76	1.54	1.47
30	B	615	CLA	CHC-C1C	2.75	1.42	1.35
30	b	612	CLA	CMC-C2C	-2.75	1.45	1.50
30	C	504	CLA	CMB-C2B	-2.75	1.45	1.51
30	13	303	CLA	CHC-C1C	2.75	1.42	1.35
42	12	315	A86	C25-C24	2.75	1.41	1.34
30	b	613	CLA	CHC-C1C	2.75	1.42	1.35
30	16	302	CLA	C3B-C2B	-2.75	1.36	1.40
30	14	309	CLA	CMB-C2B	-2.75	1.45	1.51
30	C	513	CLA	CHC-C1C	2.75	1.42	1.35
30	14	306	CLA	CHC-C1C	2.75	1.42	1.35
41	f	102	HEM	CAB-C3B	2.75	1.54	1.47
42	21	310	A86	C19-C18	2.75	1.56	1.52
42	17	315	A86	C14-C15	2.75	1.58	1.52
42	12	319	A86	C19-C18	2.75	1.56	1.52
30	17	304	CLA	CMB-C2B	-2.74	1.45	1.51
30	18	301	CLA	CHC-C1C	2.74	1.42	1.35
30	M	101	CLA	C1D-ND	2.74	1.41	1.37
42	11	312	A86	C-C1	2.74	1.56	1.50
40	D	407	PL9	C46-C44	-2.74	1.45	1.51
42	18	315	A86	O-C13	-2.74	1.17	1.23
30	19	303	CLA	CMB-C2B	-2.74	1.45	1.51
30	d	401	CLA	CMD-C2D	-2.74	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C	507	CLA	MG-ND	-2.74	2.00	2.05
42	13	314	A86	O-C13	-2.74	1.17	1.23
30	c	512	CLA	C3B-C2B	-2.74	1.36	1.40
30	c	513	CLA	CHC-C1C	2.74	1.42	1.35
30	b	607	CLA	C1D-ND	2.74	1.41	1.37
30	12	310	CLA	CHC-C1C	2.74	1.42	1.35
42	18	313	A86	O-C13	-2.74	1.17	1.23
40	d	408	PL9	C46-C44	-2.74	1.45	1.51
30	B	613	CLA	MG-ND	-2.74	2.00	2.05
30	C	509	CLA	MG-ND	-2.73	2.00	2.05
30	b	604	CLA	CMD-C2D	-2.73	1.45	1.50
42	17	314	A86	O-C13	-2.73	1.17	1.23
30	b	603	CLA	C1D-ND	2.73	1.41	1.37
30	19	301	CLA	CMB-C2B	-2.73	1.46	1.51
30	C	505	CLA	C1D-ND	2.73	1.41	1.37
30	A	404	CLA	CMD-C2D	-2.73	1.45	1.50
30	11	302	CLA	CHC-C1C	2.73	1.42	1.35
30	a	402	CLA	CMB-C2B	-2.73	1.46	1.51
30	17	308	CLA	CHC-C1C	2.73	1.42	1.35
30	D	405	CLA	CMB-C2B	-2.73	1.46	1.51
30	c	509	CLA	MG-ND	-2.73	2.00	2.05
30	b	602	CLA	CMB-C2B	-2.73	1.46	1.51
42	11	310	A86	O-C13	-2.73	1.17	1.23
32	C	515	BCR	C30-C25	-2.72	1.50	1.53
30	11	307	CLA	CMB-C2B	-2.72	1.46	1.51
30	13	305	CLA	CHC-C1C	2.72	1.41	1.35
30	c	509	CLA	CMC-C2C	-2.72	1.45	1.50
30	18	304	CLA	CMB-C2B	-2.72	1.46	1.51
30	B	614	CLA	CMB-C2B	-2.72	1.46	1.51
30	11	308	CLA	CHC-C1C	2.72	1.41	1.35
42	21	311	A86	O-C13	-2.72	1.17	1.23
30	14	304	CLA	CHC-C1C	2.72	1.41	1.35
30	17	305	CLA	CHC-C1C	2.72	1.41	1.35
30	19	307	CLA	CMB-C2B	-2.72	1.46	1.51
30	13	309	CLA	C3B-C2B	-2.72	1.36	1.40
33	L	103	SQD	O48-C23	2.72	1.41	1.33
30	14	310	CLA	CMB-C2B	-2.72	1.46	1.51
30	B	604	CLA	CMD-C2D	-2.72	1.45	1.50
30	b	611	CLA	C1D-ND	2.72	1.41	1.37
30	17	310	CLA	CHC-C1C	2.72	1.41	1.35
30	W	103	CLA	CMD-C2D	-2.72	1.45	1.50
30	b	615	CLA	CMC-C2C	-2.72	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	17	309	CLA	CHC-C1C	2.72	1.41	1.35
30	16	309	CLA	CMB-C2B	-2.71	1.46	1.51
30	16	307	CLA	CMB-C2B	-2.71	1.46	1.51
30	18	310	CLA	CMB-C2B	-2.71	1.46	1.51
42	12	315	A86	O-C13	-2.71	1.17	1.23
42	11	313	A86	O-C13	-2.71	1.17	1.23
30	b	614	CLA	CMB-C2B	-2.71	1.46	1.51
30	16	307	CLA	CMC-C2C	-2.71	1.45	1.50
30	B	615	CLA	CMD-C2D	-2.71	1.45	1.50
30	13	308	CLA	CMB-C2B	-2.71	1.46	1.51
30	b	602	CLA	CMC-C2C	-2.71	1.45	1.50
39	c	518	DGD	O5D-C6D	-2.71	1.38	1.43
30	20	203	CLA	CHC-C1C	2.71	1.41	1.35
30	17	305	CLA	CMB-C2B	-2.71	1.46	1.51
30	B	604	CLA	C3B-C2B	-2.71	1.36	1.40
30	b	615	CLA	CMD-C2D	-2.71	1.45	1.50
30	19	304	CLA	CMB-C2B	-2.71	1.46	1.51
39	C	517	DGD	O4D-C4D	-2.71	1.36	1.43
30	12	311	CLA	CMB-C2B	-2.71	1.46	1.51
40	D	404	PL9	C53-C6	-2.71	1.45	1.50
36	12	301	LMG	O1-C1	2.71	1.44	1.40
33	l	101	SQD	O48-C23	2.71	1.41	1.33
31	D	403	PHO	CBD-CGD	-2.71	1.48	1.52
30	A	402	CLA	CHC-C1C	2.70	1.41	1.35
30	14	308	CLA	CHC-C1C	2.70	1.41	1.35
30	C	509	CLA	CMC-C2C	-2.70	1.45	1.50
42	12	318	A86	O-C13	-2.70	1.17	1.23
42	14	314	A86	C14-C15	2.70	1.58	1.52
42	20	212	A86	C24-C1	2.70	1.51	1.45
30	C	502	CLA	CMB-C2B	-2.70	1.46	1.51
30	18	301	CLA	CMB-C2B	-2.70	1.46	1.51
30	c	507	CLA	CHC-C1C	2.70	1.41	1.35
30	c	507	CLA	MG-ND	-2.70	2.00	2.05
42	15	313	A86	C-C1	2.70	1.56	1.50
30	16	302	CLA	CHC-C1C	2.70	1.41	1.35
30	B	615	CLA	CMC-C2C	-2.70	1.45	1.50
30	b	622	CLA	C3B-C2B	-2.70	1.36	1.40
30	C	503	CLA	C3B-CAB	-2.70	1.42	1.47
30	c	504	CLA	CMB-C2B	-2.70	1.46	1.51
42	14	312	A86	O-C13	-2.70	1.17	1.23
30	a	402	CLA	CHC-C1C	2.70	1.41	1.35
42	13	313	A86	C14-C15	2.69	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	19	308	CLA	CHC-C1C	2.69	1.41	1.35
42	15	314	A86	C19-C18	2.69	1.56	1.52
42	20	212	A86	C-C1	2.69	1.56	1.50
30	b	615	CLA	CHC-C1C	2.69	1.41	1.35
30	A	402	CLA	CMB-C2B	-2.69	1.46	1.51
30	B	613	CLA	C1D-ND	2.69	1.41	1.37
42	14	315	A86	O-C13	-2.69	1.17	1.23
40	D	407	PL9	C5-C4	-2.69	1.37	1.47
30	c	511	CLA	C3B-CAB	-2.69	1.42	1.47
39	C	517	DGD	O6D-C5D	-2.69	1.37	1.44
30	19	302	CLA	CMB-C2B	-2.69	1.46	1.51
42	16	312	A86	C-C1	2.69	1.56	1.50
30	w	103	CLA	CMD-C2D	-2.69	1.45	1.50
42	12	319	A86	C-C1	2.69	1.56	1.50
42	20	211	A86	O-C13	-2.69	1.17	1.23
42	13	311	A86	O-C13	-2.69	1.17	1.23
30	C	502	CLA	CMD-C2D	-2.69	1.45	1.50
30	14	302	CLA	CMB-C2B	-2.68	1.46	1.51
42	16	313	A86	C19-C18	2.68	1.56	1.52
30	b	613	CLA	MG-ND	-2.68	2.00	2.05
42	15	313	A86	O-C13	-2.68	1.17	1.23
30	11	315	CLA	CHC-C1C	2.68	1.41	1.35
30	b	602	CLA	C3B-C2B	-2.68	1.36	1.40
30	C	513	CLA	CMB-C2B	-2.68	1.46	1.51
30	17	306	CLA	CMD-C2D	-2.68	1.45	1.50
42	15	310	A86	O-C13	-2.68	1.17	1.23
42	17	313	A86	C14-C15	2.68	1.57	1.52
30	m	101	CLA	CMD-C2D	-2.68	1.45	1.50
30	12	303	CLA	CHC-C1C	2.67	1.41	1.35
39	j	101	DGD	O5D-C6D	-2.67	1.38	1.43
31	d	404	PHO	CBD-CGD	-2.67	1.48	1.52
30	c	502	CLA	CMB-C2B	-2.67	1.46	1.51
39	C	517	DGD	O5D-C6D	-2.67	1.38	1.43
42	20	210	A86	C24-C1	2.67	1.51	1.45
30	C	511	CLA	C3B-CAB	-2.67	1.42	1.47
30	b	601	CLA	C3B-CAB	-2.67	1.42	1.47
42	11	313	A86	C-C1	2.67	1.56	1.50
30	C	502	CLA	C1D-ND	2.67	1.41	1.37
42	13	313	A86	C-C1	2.67	1.56	1.50
42	14	316	A86	C-C1	2.67	1.56	1.50
30	12	308	CLA	CHC-C1C	2.67	1.41	1.35
30	15	306	CLA	CMB-C2B	-2.67	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	16	306	CLA	CHC-C1C	2.67	1.41	1.35
30	18	303	CLA	CMB-C2B	-2.67	1.46	1.51
30	c	505	CLA	C1D-ND	2.67	1.41	1.37
30	c	502	CLA	CMD-C2D	-2.66	1.45	1.50
36	w	101	LMG	O7-C8	-2.66	1.39	1.46
42	20	210	A86	C-C1	2.66	1.56	1.50
30	d	401	CLA	CHC-C1C	2.66	1.41	1.35
30	B	602	CLA	CMC-C2C	-2.66	1.45	1.50
30	14	302	CLA	CHC-C1C	2.66	1.41	1.35
30	16	305	CLA	CHC-C1C	2.66	1.41	1.35
30	B	606	CLA	C3B-C2B	-2.66	1.36	1.40
30	C	507	CLA	CHC-C1C	2.66	1.41	1.35
30	d	406	CLA	CMB-C2B	-2.66	1.46	1.51
30	15	301	CLA	CMB-C2B	-2.66	1.46	1.51
30	M	101	CLA	CMD-C2D	-2.66	1.45	1.50
30	D	402	CLA	C3B-C2B	-2.66	1.36	1.40
30	C	510	CLA	MG-ND	-2.66	2.00	2.05
30	12	303	CLA	CMB-C2B	-2.66	1.46	1.51
30	D	401	CLA	CHC-C1C	2.66	1.41	1.35
30	13	309	CLA	CMB-C2B	-2.66	1.46	1.51
42	16	312	A86	C14-C15	2.66	1.57	1.52
42	12	318	A86	C-C1	2.66	1.56	1.50
33	A	406	SQD	O47-C7	2.65	1.41	1.34
30	c	502	CLA	C1D-ND	2.65	1.41	1.37
30	B	610	CLA	CMC-C2C	-2.65	1.45	1.50
30	11	304	CLA	CMD-C2D	-2.65	1.45	1.50
40	d	408	PL9	C5-C4	-2.65	1.37	1.47
30	c	503	CLA	C3B-CAB	-2.65	1.42	1.47
30	b	604	CLA	C3B-C2B	-2.65	1.36	1.40
30	d	401	CLA	C1D-ND	2.65	1.41	1.37
30	20	206	CLA	CMB-C2B	-2.65	1.46	1.51
42	15	314	A86	C-C1	2.65	1.56	1.50
42	21	313	A86	C-C1	2.65	1.56	1.50
36	W	101	LMG	O7-C8	-2.65	1.40	1.46
30	z	101	CLA	CMB-C2B	-2.65	1.46	1.51
42	13	313	A86	O-C13	-2.65	1.17	1.23
42	19	311	A86	O-C13	-2.65	1.17	1.23
42	21	314	A86	C-C1	2.65	1.56	1.50
42	17	316	A86	C-C1	2.65	1.56	1.50
30	14	306	CLA	CMB-C2B	-2.65	1.46	1.51
30	B	603	CLA	CMD-C2D	-2.65	1.45	1.50
30	12	312	CLA	CHC-C1C	2.65	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	B	611	CLA	C1D-ND	2.65	1.41	1.37
30	11	315	CLA	CMB-C2B	-2.65	1.46	1.51
30	B	601	CLA	C3B-CAB	-2.65	1.42	1.47
42	14	314	A86	C-C1	2.64	1.56	1.50
30	16	308	CLA	CHC-C1C	2.64	1.41	1.35
30	17	304	CLA	CHC-C1C	2.64	1.41	1.35
30	12	313	CLA	CMB-C2B	-2.64	1.46	1.51
42	19	311	A86	C24-C1	2.64	1.51	1.45
42	12	318	A86	C14-C15	2.64	1.57	1.52
42	12	317	A86	C-C1	2.64	1.56	1.50
42	14	315	A86	C-C1	2.64	1.56	1.50
42	15	312	A86	C-C1	2.64	1.56	1.50
42	21	312	A86	O-C13	-2.64	1.17	1.23
30	21	302	CLA	CMB-C2B	-2.64	1.46	1.51
42	17	314	A86	C14-C15	2.64	1.57	1.52
42	17	313	A86	C-C1	2.64	1.56	1.50
42	14	301	A86	C-C1	2.64	1.56	1.50
39	c	518	DGD	O4E-C4E	-2.64	1.36	1.43
30	C	519	CLA	CMB-C2B	-2.64	1.46	1.51
30	b	603	CLA	CMD-C2D	-2.64	1.45	1.50
42	20	213	A86	C-C1	2.64	1.56	1.50
30	b	610	CLA	CMC-C2C	-2.64	1.45	1.50
30	c	510	CLA	MG-ND	-2.64	2.00	2.05
42	15	313	A86	C14-C15	2.64	1.57	1.52
30	m	101	CLA	C1D-ND	2.64	1.41	1.37
30	16	301	CLA	CMB-C2B	-2.64	1.46	1.51
42	11	314	A86	C-C1	2.64	1.56	1.50
42	11	312	A86	C14-C15	2.64	1.57	1.52
39	c	518	DGD	O4D-C4D	-2.64	1.36	1.43
30	15	309	CLA	CMB-C2B	-2.64	1.46	1.51
31	d	403	PHO	C3B-C2B	-2.64	1.36	1.40
30	18	308	CLA	CMB-C2B	-2.64	1.46	1.51
30	M	101	CLA	C3B-C2B	-2.63	1.36	1.40
30	13	305	CLA	CMD-C2D	-2.63	1.45	1.50
30	b	613	CLA	C1D-ND	2.63	1.41	1.37
42	17	311	A86	C-C1	2.63	1.56	1.50
36	B	620	LMG	O4-C4	-2.63	1.36	1.43
39	C	517	DGD	O3G-C1D	-2.63	1.35	1.40
30	17	301	CLA	CHC-C1C	2.63	1.41	1.35
30	B	623	CLA	MG-ND	-2.63	2.00	2.05
30	B	610	CLA	C1D-ND	2.63	1.41	1.37
42	18	315	A86	C-C1	2.63	1.56	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C	520	CLA	CMB-C2B	-2.63	1.46	1.51
30	12	305	CLA	CMB-C2B	-2.63	1.46	1.51
42	14	301	A86	C19-C18	2.63	1.56	1.52
30	12	312	CLA	CMB-C2B	-2.63	1.46	1.51
30	b	608	CLA	C1D-ND	2.63	1.41	1.37
30	D	401	CLA	MG-ND	-2.63	2.00	2.05
30	d	401	CLA	MG-ND	-2.63	2.00	2.05
30	B	612	CLA	CMA-C3A	-2.63	1.47	1.53
39	C	517	DGD	O4E-C4E	-2.63	1.36	1.43
42	16	313	A86	C-C1	2.63	1.56	1.50
30	B	602	CLA	C3B-C2B	-2.63	1.36	1.40
30	19	301	CLA	C3B-C2B	-2.63	1.36	1.40
42	11	316	A86	C24-C1	2.63	1.51	1.45
30	19	309	CLA	CHC-C1C	2.63	1.41	1.35
30	b	622	CLA	MG-ND	-2.63	2.00	2.05
42	21	313	A86	O-C13	-2.63	1.17	1.23
42	14	315	A86	C14-C15	2.63	1.57	1.52
30	B	623	CLA	C3B-C2B	-2.62	1.36	1.40
30	12	308	CLA	CMD-C2D	-2.62	1.45	1.50
30	c	504	CLA	CHC-C1C	2.62	1.41	1.35
30	15	307	CLA	CMB-C2B	-2.62	1.46	1.51
30	B	603	CLA	C1D-ND	2.62	1.41	1.37
30	11	308	CLA	CMB-C2B	-2.62	1.46	1.51
31	A	403	PHO	C3B-C2B	-2.62	1.36	1.40
30	11	301	CLA	CMB-C2B	-2.62	1.46	1.51
42	16	311	A86	O-C13	-2.62	1.17	1.23
31	A	403	PHO	CMD-C2D	-2.62	1.45	1.51
42	17	313	A86	O-C13	-2.62	1.17	1.23
30	18	312	CLA	CMB-C2B	-2.62	1.46	1.51
30	C	504	CLA	CHC-C1C	2.62	1.41	1.35
30	19	306	CLA	CHC-C1C	2.62	1.41	1.35
30	14	303	CLA	CMB-C2B	-2.62	1.46	1.51
30	b	613	CLA	CMB-C2B	-2.62	1.46	1.51
30	d	407	CLA	CHC-C1C	2.62	1.41	1.35
36	b	619	LMG	O4-C4	-2.62	1.36	1.43
42	16	310	A86	C-C1	2.62	1.56	1.50
42	19	312	A86	C24-C1	2.61	1.51	1.45
30	17	309	CLA	CMB-C2B	-2.61	1.46	1.51
42	13	314	A86	C14-C15	2.61	1.57	1.52
30	m	101	CLA	C3B-C2B	-2.61	1.36	1.40
33	a	405	SQD	O47-C7	2.61	1.41	1.34
42	18	315	A86	C14-C15	2.61	1.57	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	c	518	DGD	O3G-C1D	-2.61	1.35	1.40
42	11	313	A86	C14-C15	2.61	1.57	1.52
42	12	317	A86	C14-C15	2.61	1.57	1.52
30	a	403	CLA	CHC-C1C	2.61	1.41	1.35
42	13	312	A86	O-C13	-2.61	1.17	1.23
30	d	406	CLA	CHC-C1C	2.61	1.41	1.35
30	20	204	CLA	CMB-C2B	-2.61	1.46	1.51
30	12	307	CLA	CMB-C2B	-2.61	1.46	1.51
30	A	404	CLA	CHC-C1C	2.61	1.41	1.35
42	13	301	A86	C24-C1	2.61	1.51	1.45
30	11	303	CLA	CMB-C2B	-2.61	1.46	1.51
30	17	307	CLA	CMD-C2D	-2.61	1.45	1.50
30	b	612	CLA	CMA-C3A	-2.61	1.47	1.53
42	13	314	A86	C-C1	2.61	1.56	1.50
30	B	613	CLA	CMB-C2B	-2.60	1.46	1.51
42	12	317	A86	O-C13	-2.60	1.17	1.23
42	18	302	A86	C24-C1	2.60	1.51	1.45
30	14	305	CLA	CMB-C2B	-2.60	1.46	1.51
30	c	503	CLA	CMD-C2D	-2.60	1.45	1.50
30	B	612	CLA	CHC-C1C	2.60	1.41	1.35
42	17	311	A86	O-C13	-2.60	1.17	1.23
30	D	405	CLA	CHC-C1C	2.60	1.41	1.35
30	B	610	CLA	CMD-C2D	-2.60	1.45	1.50
30	b	603	CLA	MG-ND	-2.60	2.00	2.05
30	16	305	CLA	CMD-C2D	-2.60	1.45	1.50
30	c	514	CLA	CMB-C2B	-2.60	1.46	1.51
42	18	314	A86	O-C13	-2.60	1.17	1.23
30	13	305	CLA	CMB-C2B	-2.60	1.46	1.51
36	B	619	LMG	O7-C8	-2.60	1.40	1.46
42	17	314	A86	C-C1	2.60	1.56	1.50
42	20	213	A86	C24-C1	2.60	1.51	1.45
30	12	303	CLA	CMD-C2D	-2.60	1.45	1.50
30	14	307	CLA	CMB-C2B	-2.60	1.46	1.51
30	b	606	CLA	C3B-C2B	-2.60	1.36	1.40
42	11	311	A86	O-C13	-2.60	1.17	1.23
30	20	205	CLA	CHC-C1C	2.60	1.41	1.35
30	11	304	CLA	CMB-C2B	-2.60	1.46	1.51
42	14	314	A86	O-C13	-2.60	1.17	1.23
30	13	304	CLA	CMB-C2B	-2.60	1.46	1.51
30	b	611	CLA	CHC-C1C	2.60	1.41	1.35
42	16	312	A86	O-C13	-2.60	1.17	1.23
42	15	316	A86	C24-C1	2.60	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	17	311	A86	C24-C1	2.60	1.51	1.45
42	15	312	A86	C14-C15	2.60	1.57	1.52
30	11	305	CLA	CMB-C2B	-2.60	1.46	1.51
42	14	313	A86	O-C13	-2.60	1.17	1.23
30	D	405	CLA	MG-ND	-2.60	2.00	2.05
30	19	304	CLA	CHC-C1C	2.60	1.41	1.35
30	W	102	CLA	CHC-C1C	2.59	1.41	1.35
36	b	618	LMG	O7-C8	-2.59	1.40	1.46
30	C	503	CLA	CMD-C2D	-2.59	1.45	1.50
30	z	101	CLA	CHC-C1C	2.59	1.41	1.35
42	15	311	A86	O-C13	-2.59	1.17	1.23
30	18	304	CLA	CHC-C1C	2.59	1.41	1.35
42	21	310	A86	C-C1	2.59	1.56	1.50
42	16	312	A86	C24-C1	2.59	1.51	1.45
30	C	503	CLA	C4B-CHC	-2.59	1.33	1.41
42	15	316	A86	C-C1	2.59	1.56	1.50
30	c	505	CLA	CAC-C3C	-2.59	1.44	1.51
42	17	312	A86	O-C13	-2.59	1.17	1.23
30	b	613	CLA	CAA-C2A	-2.59	1.49	1.54
30	b	609	CLA	CHC-C1C	2.59	1.41	1.35
42	15	312	A86	O-C13	-2.59	1.17	1.23
30	12	308	CLA	CMB-C2B	-2.59	1.46	1.51
30	c	510	CLA	CHC-C1C	2.58	1.41	1.35
30	B	603	CLA	MG-ND	-2.58	2.00	2.05
31	d	403	PHO	CMD-C2D	-2.58	1.45	1.51
30	B	608	CLA	C1D-ND	2.58	1.41	1.37
36	1	101	LMG	O1-C1	2.58	1.44	1.40
30	D	406	CLA	CHC-C1C	2.58	1.41	1.35
30	b	612	CLA	CHC-C1C	2.58	1.41	1.35
30	b	609	CLA	CMD-C2D	-2.58	1.45	1.50
42	11	312	A86	O-C13	-2.58	1.17	1.23
30	c	510	CLA	CMC-C2C	-2.58	1.45	1.50
30	15	308	CLA	CMB-C2B	-2.58	1.46	1.51
30	b	610	CLA	C1D-ND	2.58	1.41	1.37
30	d	401	CLA	CMC-C2C	-2.58	1.45	1.50
30	C	511	CLA	CMB-C2B	-2.58	1.46	1.51
30	20	207	CLA	CMB-C2B	-2.58	1.46	1.51
30	c	512	CLA	MG-ND	-2.58	2.00	2.05
30	C	519	CLA	CHC-C1C	2.58	1.41	1.35
30	c	503	CLA	C4B-CHC	-2.58	1.33	1.41
30	B	610	CLA	MG-ND	-2.58	2.00	2.05
36	c	519	LMG	O8-C9	-2.58	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	13	310	CLA	CMB-C2B	-2.58	1.46	1.51
30	c	506	CLA	CHC-C1C	2.58	1.41	1.35
30	12	314	CLA	CMB-C2B	-2.58	1.46	1.51
30	B	611	CLA	CHC-C1C	2.58	1.41	1.35
42	14	314	A86	C24-C1	2.58	1.51	1.45
30	B	604	CLA	CAC-C3C	-2.57	1.44	1.51
30	C	512	CLA	MG-ND	-2.57	2.00	2.05
30	C	508	CLA	CMD-C2D	-2.57	1.45	1.50
30	D	405	CLA	CMC-C2C	-2.57	1.45	1.50
42	17	302	A86	C-C1	2.57	1.56	1.50
30	B	609	CLA	CHC-C1C	2.57	1.41	1.35
30	b	610	CLA	MG-ND	-2.57	2.00	2.05
30	12	309	CLA	CMB-C2B	-2.57	1.46	1.51
30	20	206	CLA	CHC-C1C	2.57	1.41	1.35
42	15	315	A86	C24-C1	2.57	1.51	1.45
30	B	605	CLA	CMD-C2D	-2.57	1.45	1.50
42	12	317	A86	C24-C1	2.57	1.51	1.45
42	13	315	A86	C-C1	2.57	1.56	1.50
42	17	315	A86	C24-C1	2.57	1.51	1.45
30	B	613	CLA	CAA-C2A	-2.57	1.49	1.54
30	B	610	CLA	CHC-C1C	2.57	1.41	1.35
30	11	304	CLA	MG-ND	-2.57	2.00	2.05
30	c	513	CLA	CMD-C2D	-2.57	1.45	1.50
30	C	510	CLA	CMC-C2C	-2.57	1.45	1.50
42	17	315	A86	O-C13	-2.57	1.17	1.23
42	19	312	A86	O-C13	-2.57	1.17	1.23
30	14	303	CLA	CMC-C2C	-2.57	1.45	1.50
42	12	316	A86	O-C13	-2.57	1.17	1.23
30	13	302	CLA	CMB-C2B	-2.57	1.46	1.51
30	c	504	CLA	C3B-C2B	-2.56	1.36	1.40
42	17	313	A86	C24-C1	2.56	1.51	1.45
30	b	610	CLA	CHC-C1C	2.56	1.41	1.35
30	16	303	CLA	CHC-C1C	2.56	1.41	1.35
42	19	312	A86	C-C1	2.56	1.56	1.50
30	12	312	CLA	CMD-C2D	-2.56	1.45	1.50
30	D	401	CLA	CMC-C2C	-2.56	1.45	1.50
30	C	512	CLA	C3B-C2B	-2.56	1.36	1.40
30	C	504	CLA	C3B-C2B	-2.56	1.36	1.40
30	B	601	CLA	CHC-C1C	2.56	1.41	1.35
30	C	506	CLA	CHC-C1C	2.56	1.41	1.35
30	12	313	CLA	C3B-C2B	-2.56	1.36	1.40
42	11	316	A86	C-C1	2.56	1.56	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	b	606	CLA	CHC-C1C	2.56	1.41	1.35
30	b	608	CLA	CMD-C2D	-2.56	1.45	1.50
36	Q	301	LMG	O8-C9	-2.56	1.39	1.45
30	C	513	CLA	CMD-C2D	-2.56	1.45	1.50
36	D	408	LMG	O1-C7	-2.56	1.39	1.43
30	C	505	CLA	CAC-C3C	-2.56	1.44	1.51
30	B	608	CLA	CMD-C2D	-2.56	1.45	1.50
30	c	511	CLA	CMB-C2B	-2.55	1.46	1.51
30	19	309	CLA	CMB-C2B	-2.55	1.46	1.51
30	B	609	CLA	CMD-C2D	-2.55	1.45	1.50
30	11	308	CLA	C3B-C2B	-2.55	1.36	1.40
30	16	302	CLA	CMC-C2C	-2.55	1.45	1.50
42	12	315	A86	C-C1	2.55	1.56	1.50
42	20	212	A86	C35-C34	2.55	1.56	1.51
30	18	305	CLA	CMB-C2B	-2.55	1.46	1.51
42	13	313	A86	C24-C1	2.55	1.51	1.45
30	b	610	CLA	CMD-C2D	-2.55	1.45	1.50
30	c	508	CLA	CMD-C2D	-2.55	1.45	1.50
30	12	308	CLA	MG-ND	-2.55	2.00	2.05
42	13	301	A86	C-C1	2.55	1.56	1.50
42	12	304	A86	C24-C1	2.55	1.51	1.45
36	W	101	LMG	O8-C9	-2.55	1.39	1.45
30	11	309	CLA	CMB-C2B	-2.55	1.46	1.51
30	C	510	CLA	CHC-C1C	2.55	1.41	1.35
30	B	603	CLA	CHC-C1C	2.55	1.41	1.35
42	15	315	A86	C-C1	2.54	1.56	1.50
30	b	605	CLA	CMD-C2D	-2.54	1.45	1.50
30	21	309	CLA	CMB-C2B	-2.54	1.46	1.51
42	21	314	A86	C24-C1	2.54	1.51	1.45
42	12	304	A86	C-C1	2.54	1.56	1.50
30	12	305	CLA	CMC-C2C	-2.54	1.45	1.50
30	z	101	CLA	MG-ND	-2.54	2.00	2.05
36	w	101	LMG	O8-C9	-2.54	1.39	1.45
30	16	309	CLA	C3B-C2B	-2.54	1.36	1.40
30	14	310	CLA	CMD-C2D	-2.54	1.45	1.50
42	11	312	A86	C24-C1	2.54	1.51	1.45
30	14	302	CLA	CMD-C2D	-2.54	1.45	1.50
30	b	607	CLA	CHC-C1C	2.54	1.41	1.35
30	16	308	CLA	C3B-C2B	-2.54	1.36	1.40
30	14	311	CLA	CMB-C2B	-2.54	1.46	1.51
30	13	305	CLA	MG-ND	-2.54	2.00	2.05
42	13	315	A86	C24-C1	2.54	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	c	518	DGD	O3G-C3G	-2.54	1.39	1.43
30	b	603	CLA	CHC-C1C	2.54	1.41	1.35
30	C	510	CLA	C1D-ND	2.54	1.40	1.37
42	18	313	A86	C-C1	2.54	1.56	1.50
30	19	308	CLA	CMB-C2B	-2.54	1.46	1.51
30	C	512	CLA	C3B-CAB	-2.54	1.42	1.47
30	B	607	CLA	CHC-C1C	2.54	1.41	1.35
30	b	601	CLA	CHC-C1C	2.54	1.41	1.35
35	A	408	LHG	O7-C5	-2.53	1.40	1.46
30	21	308	CLA	CMB-C2B	-2.53	1.46	1.51
30	14	310	CLA	C3B-C2B	-2.53	1.36	1.40
33	B	621	SQD	O47-C7	2.53	1.41	1.34
30	B	606	CLA	CMC-C2C	-2.53	1.45	1.50
30	D	401	CLA	C1D-ND	2.53	1.40	1.37
36	12	301	LMG	O4-C4	-2.53	1.37	1.43
42	17	316	A86	O-C13	-2.53	1.18	1.23
30	16	303	CLA	CMB-C2B	-2.53	1.46	1.51
30	B	606	CLA	CHC-C1C	2.53	1.41	1.35
35	a	407	LHG	O7-C5	-2.53	1.40	1.46
39	C	517	DGD	O3G-C3G	-2.53	1.39	1.43
30	11	301	CLA	CMC-C2C	-2.53	1.45	1.50
30	15	303	CLA	CMB-C2B	-2.53	1.46	1.51
30	17	307	CLA	CMB-C2B	-2.53	1.46	1.51
30	d	406	CLA	CMC-C2C	-2.53	1.45	1.50
30	13	309	CLA	CMD-C2D	-2.53	1.45	1.50
42	15	312	A86	C24-C1	2.53	1.51	1.45
30	12	306	CLA	CMB-C2B	-2.53	1.46	1.51
42	20	201	A86	C-C1	2.53	1.56	1.50
30	B	605	CLA	C3B-CAB	-2.53	1.42	1.47
39	J	101	DGD	O1G-C1G	-2.53	1.39	1.45
30	a	403	CLA	CMC-C2C	-2.53	1.45	1.50
30	21	303	CLA	CMB-C2B	-2.52	1.46	1.51
30	b	614	CLA	CMD-C2D	-2.52	1.45	1.50
30	21	306	CLA	CMB-C2B	-2.52	1.46	1.51
37	12	302	LMU	O3'-C3'	2.52	1.48	1.43
30	C	509	CLA	CMD-C2D	-2.52	1.45	1.50
42	17	315	A86	C-C1	2.52	1.56	1.50
30	16	305	CLA	CMB-C2B	-2.52	1.46	1.51
33	b	620	SQD	O47-C7	2.52	1.41	1.34
42	16	310	A86	C24-C1	2.52	1.51	1.45
42	15	314	A86	O-C13	-2.52	1.18	1.23
30	W	102	CLA	C3B-C2B	-2.52	1.36	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	16	309	CLA	CMD-C2D	-2.52	1.45	1.50
30	18	301	CLA	C3B-C2B	-2.52	1.36	1.40
30	13	306	CLA	CMB-C2B	-2.52	1.46	1.51
30	18	307	CLA	CMB-C2B	-2.52	1.46	1.51
30	B	604	CLA	C4B-CHC	-2.52	1.34	1.41
30	D	406	CLA	C1D-ND	2.52	1.40	1.37
30	d	407	CLA	CMD-C2D	-2.52	1.45	1.50
30	14	304	CLA	CMB-C2B	-2.51	1.46	1.51
30	w	102	CLA	CHC-C1C	2.51	1.41	1.35
30	b	604	CLA	C4B-CHC	-2.51	1.34	1.41
42	15	310	A86	C-C1	2.51	1.56	1.50
36	1	101	LMG	O7-C8	-2.51	1.40	1.46
33	A	406	SQD	O2-C2	-2.51	1.37	1.43
30	b	604	CLA	CAC-C3C	-2.51	1.44	1.51
30	d	406	CLA	MG-ND	-2.51	2.00	2.05
30	C	514	CLA	CMB-C2B	-2.51	1.46	1.51
30	17	306	CLA	CMB-C2B	-2.51	1.46	1.51
33	a	405	SQD	O2-C2	-2.51	1.37	1.43
42	14	301	A86	O-C13	-2.51	1.18	1.23
36	m	102	LMG	O4-C4	-2.51	1.37	1.43
30	11	315	CLA	CMD-C2D	-2.51	1.45	1.50
30	21	301	CLA	CMB-C2B	-2.51	1.46	1.51
30	15	308	CLA	C3B-C2B	-2.50	1.36	1.40
31	d	403	PHO	CMC-C2C	-2.50	1.45	1.51
30	C	519	CLA	MG-ND	-2.50	2.00	2.05
30	D	402	CLA	C3B-CAB	-2.50	1.42	1.47
30	b	607	CLA	CMD-C2D	-2.50	1.45	1.50
30	16	308	CLA	MG-ND	-2.50	2.00	2.05
30	13	303	CLA	CMB-C2B	-2.50	1.46	1.51
30	17	310	CLA	CMB-C2B	-2.50	1.46	1.51
30	b	610	CLA	C3B-CAB	-2.50	1.42	1.47
42	20	201	A86	O-C13	-2.50	1.18	1.23
31	A	403	PHO	CMC-C2C	-2.50	1.45	1.51
30	B	615	CLA	MG-ND	-2.50	2.00	2.05
30	14	306	CLA	MG-ND	-2.50	2.00	2.05
30	c	510	CLA	C1D-ND	2.50	1.40	1.37
30	c	502	CLA	CHC-C1C	2.50	1.41	1.35
30	14	310	CLA	MG-ND	-2.50	2.00	2.05
30	C	513	CLA	C3B-C2B	-2.50	1.36	1.40
30	19	305	CLA	C3B-C2B	-2.50	1.36	1.40
30	20	205	CLA	CMB-C2B	-2.50	1.46	1.51
30	c	514	CLA	CMC-C2C	-2.50	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	15	315	A86	O-C13	-2.50	1.18	1.23
30	11	308	CLA	CMD-C2D	-2.50	1.45	1.50
30	16	307	CLA	CMD-C2D	-2.50	1.45	1.50
30	C	508	CLA	CMC-C2C	-2.50	1.45	1.50
30	13	309	CLA	MG-ND	-2.50	2.00	2.05
42	12	319	A86	O-C13	-2.50	1.18	1.23
30	B	614	CLA	CMD-C2D	-2.50	1.45	1.50
30	13	302	CLA	CMC-C2C	-2.50	1.45	1.50
42	14	312	A86	C-C1	2.50	1.56	1.50
42	18	302	A86	C-C1	2.49	1.56	1.50
30	12	313	CLA	MG-ND	-2.49	2.00	2.05
30	d	407	CLA	C1D-ND	2.49	1.40	1.37
30	14	306	CLA	CMD-C2D	-2.49	1.45	1.50
42	13	315	A86	O-C13	-2.49	1.18	1.23
30	c	512	CLA	C3B-CAB	-2.49	1.42	1.47
36	d	410	LMG	O1-C7	-2.49	1.39	1.43
30	b	606	CLA	CMC-C2C	-2.49	1.45	1.50
42	14	315	A86	C24-C1	2.49	1.51	1.45
30	11	302	CLA	CMB-C2B	-2.49	1.46	1.51
30	B	610	CLA	C3B-CAB	-2.49	1.42	1.47
30	B	607	CLA	CMD-C2D	-2.49	1.45	1.50
30	Z	102	CLA	CMB-C2B	-2.49	1.46	1.51
30	c	509	CLA	CMD-C2D	-2.48	1.45	1.50
30	b	614	CLA	CHC-C1C	2.48	1.41	1.35
30	b	613	CLA	CMD-C2D	-2.48	1.45	1.50
30	c	510	CLA	CMD-C2D	-2.48	1.45	1.50
30	a	402	CLA	CMD-C2D	-2.48	1.45	1.50
30	B	614	CLA	CHC-C1C	2.48	1.41	1.35
30	c	508	CLA	CMC-C2C	-2.48	1.45	1.50
42	11	310	A86	C-C1	2.48	1.56	1.50
30	b	605	CLA	C3B-CAB	-2.48	1.42	1.47
42	19	310	A86	C-C1	2.48	1.56	1.50
30	d	402	CLA	C3B-CAB	-2.48	1.42	1.47
30	w	102	CLA	C3B-C2B	-2.48	1.36	1.40
42	21	312	A86	C-C1	2.48	1.56	1.50
36	M	102	LMG	O4-C4	-2.48	1.37	1.43
30	A	404	CLA	MG-ND	-2.48	2.00	2.05
30	18	309	CLA	MG-ND	-2.48	2.00	2.05
30	21	306	CLA	O2A-C1	-2.48	1.39	1.46
30	B	613	CLA	CMD-C2D	-2.47	1.45	1.50
42	14	316	A86	O-C13	-2.47	1.18	1.23
42	15	316	A86	O-C13	-2.47	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	A	402	CLA	CMD-C2D	-2.47	1.45	1.50
42	21	313	A86	C24-C1	2.47	1.51	1.45
42	12	304	A86	O-C13	-2.47	1.18	1.23
30	a	402	CLA	CMC-C2C	-2.47	1.45	1.50
30	B	613	CLA	CMC-C2C	-2.47	1.45	1.50
40	D	407	PL9	C31-C29	-2.47	1.46	1.51
30	b	615	CLA	MG-ND	-2.47	2.00	2.05
42	11	311	A86	C14-C15	2.47	1.57	1.52
30	b	613	CLA	CMC-C2C	-2.47	1.45	1.50
42	17	302	A86	C24-C1	2.47	1.51	1.45
30	11	308	CLA	MG-ND	-2.47	2.00	2.05
42	18	315	A86	C24-C1	2.47	1.51	1.45
30	a	403	CLA	MG-ND	-2.46	2.00	2.05
30	c	509	CLA	C3B-CAB	-2.46	1.42	1.47
42	18	302	A86	O-C13	-2.46	1.18	1.23
42	21	312	A86	C24-C1	2.46	1.51	1.45
30	c	505	CLA	C3B-CAB	-2.46	1.42	1.47
42	11	314	A86	O-C13	-2.46	1.18	1.23
30	C	502	CLA	CHC-C1C	2.46	1.41	1.35
30	C	503	CLA	CAC-C3C	-2.46	1.44	1.51
30	A	402	CLA	CMC-C2C	-2.46	1.45	1.50
30	17	301	CLA	MG-ND	-2.46	2.00	2.05
30	18	311	CLA	CMB-C2B	-2.46	1.46	1.51
42	11	316	A86	O-C13	-2.46	1.18	1.23
30	21	307	CLA	CMB-C2B	-2.45	1.46	1.51
30	c	507	CLA	C1D-ND	2.45	1.40	1.37
30	D	406	CLA	CMD-C2D	-2.45	1.45	1.50
30	C	505	CLA	MG-ND	-2.45	2.00	2.05
30	w	103	CLA	CMB-C2B	-2.45	1.46	1.51
42	18	314	A86	C14-C15	2.45	1.57	1.52
30	15	305	CLA	CMB-C2B	-2.45	1.46	1.51
42	15	313	A86	C24-C1	2.45	1.51	1.45
39	j	101	DGD	O1G-C1G	-2.45	1.39	1.45
30	D	406	CLA	C3B-C2B	-2.45	1.37	1.40
42	13	301	A86	O-C13	-2.45	1.18	1.23
30	12	313	CLA	CMD-C2D	-2.45	1.45	1.50
39	C	516	DGD	O5D-C6D	-2.45	1.39	1.43
42	16	313	A86	O-C13	-2.45	1.18	1.23
42	13	311	A86	C-C1	2.45	1.55	1.50
30	18	306	CLA	CMB-C2B	-2.45	1.46	1.51
30	C	514	CLA	CMC-C2C	-2.44	1.45	1.50
30	c	504	CLA	MG-ND	-2.44	2.00	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C	507	CLA	CMD-C2D	-2.44	1.45	1.50
30	C	505	CLA	CMD-C2D	-2.44	1.45	1.50
30	17	309	CLA	C3B-C2B	-2.44	1.37	1.40
30	17	308	CLA	MG-ND	-2.44	2.00	2.05
30	B	611	CLA	CMD-C2D	-2.44	1.45	1.50
30	A	404	CLA	CMC-C2C	-2.44	1.45	1.50
42	14	313	A86	C14-C15	2.44	1.57	1.52
30	c	503	CLA	CAC-C3C	-2.44	1.44	1.51
30	W	102	CLA	CMC-C2C	-2.44	1.45	1.50
30	C	508	CLA	C4B-CHC	-2.44	1.34	1.41
42	13	314	A86	C24-C1	2.44	1.51	1.45
31	D	403	PHO	CMC-C2C	-2.44	1.45	1.51
30	21	305	CLA	CMB-C2B	-2.44	1.46	1.51
30	b	611	CLA	CMD-C2D	-2.44	1.45	1.50
30	C	506	CLA	CMC-C2C	-2.44	1.45	1.50
30	c	506	CLA	CMC-C2C	-2.44	1.45	1.50
30	c	507	CLA	CMD-C2D	-2.43	1.45	1.50
42	19	311	A86	C-C1	2.43	1.55	1.50
30	18	311	CLA	CMD-C2D	-2.43	1.45	1.50
30	18	310	CLA	CMD-C2D	-2.43	1.45	1.50
42	15	311	A86	C14-C15	2.43	1.57	1.52
42	13	312	A86	C14-C15	2.43	1.57	1.52
30	c	514	CLA	MG-ND	-2.43	2.01	2.05
30	d	407	CLA	C3B-C2B	-2.43	1.37	1.40
31	d	403	PHO	CMB-C2B	-2.43	1.45	1.51
40	d	408	PL9	C31-C29	-2.43	1.46	1.51
30	C	511	CLA	CMC-C2C	-2.43	1.45	1.50
30	B	607	CLA	MG-ND	-2.43	2.01	2.05
30	16	307	CLA	C3B-CAB	-2.43	1.43	1.47
42	20	210	A86	O-C13	-2.43	1.18	1.23
30	W	103	CLA	CMB-C2B	-2.43	1.46	1.51
30	C	510	CLA	C3B-C2B	-2.43	1.37	1.40
30	11	307	CLA	C3B-C2B	-2.42	1.37	1.40
30	C	509	CLA	C3B-CAB	-2.42	1.43	1.47
41	V	201	HEM	C3D-C2D	-2.42	1.31	1.36
30	C	504	CLA	MG-ND	-2.42	2.01	2.05
42	16	311	A86	C14-C15	2.42	1.57	1.52
30	13	308	CLA	CMD-C2D	-2.42	1.45	1.50
42	12	318	A86	C24-C1	2.42	1.51	1.45
30	c	508	CLA	C4B-CHC	-2.42	1.34	1.41
30	B	614	CLA	C3B-C2B	-2.42	1.37	1.40
30	c	505	CLA	CMC-C2C	-2.42	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	A	403	PHO	CMB-C2B	-2.42	1.45	1.51
30	C	505	CLA	C3B-CAB	-2.42	1.43	1.47
30	12	311	CLA	C3B-C2B	-2.42	1.37	1.40
30	16	309	CLA	CMC-C2C	-2.42	1.45	1.50
30	17	307	CLA	C3B-CAB	-2.42	1.43	1.47
30	c	505	CLA	MG-ND	-2.42	2.01	2.05
30	12	311	CLA	MG-ND	-2.42	2.01	2.05
30	15	302	CLA	CMB-C2B	-2.42	1.46	1.51
39	c	517	DGD	O5D-C6D	-2.42	1.39	1.43
30	C	507	CLA	CMC-C2C	-2.42	1.45	1.50
30	c	505	CLA	CMD-C2D	-2.41	1.45	1.50
30	D	402	CLA	MG-ND	-2.41	2.01	2.05
30	16	309	CLA	C3B-CAB	-2.41	1.43	1.47
41	v	201	HEM	C3D-C2D	-2.41	1.31	1.36
30	14	309	CLA	C3B-C2B	-2.41	1.37	1.40
42	20	211	A86	C-C1	2.41	1.55	1.50
42	11	313	A86	C24-C1	2.41	1.51	1.45
30	C	509	CLA	C1D-ND	2.41	1.40	1.37
42	17	312	A86	C14-C15	2.41	1.57	1.52
30	c	502	CLA	MG-ND	-2.41	2.01	2.05
30	c	507	CLA	CMC-C2C	-2.40	1.45	1.50
30	b	607	CLA	MG-ND	-2.40	2.01	2.05
30	20	202	CLA	CMB-C2B	-2.40	1.46	1.51
30	c	505	CLA	CHC-C1C	2.40	1.41	1.35
30	b	603	CLA	CMC-C2C	-2.40	1.45	1.50
30	12	311	CLA	CMD-C2D	-2.40	1.45	1.50
30	13	308	CLA	C3B-C2B	-2.40	1.37	1.40
30	15	304	CLA	CMB-C2B	-2.40	1.46	1.51
30	C	514	CLA	CMD-C2D	-2.40	1.45	1.50
30	b	614	CLA	CMC-C2C	-2.40	1.45	1.50
30	17	301	CLA	CMD-C2D	-2.40	1.45	1.50
30	19	308	CLA	CMD-C2D	-2.39	1.45	1.50
30	B	602	CLA	C3B-CAB	-2.39	1.43	1.47
30	12	311	CLA	C3B-CAB	-2.39	1.43	1.47
42	17	314	A86	C24-C1	2.39	1.51	1.45
30	12	313	CLA	CMC-C2C	-2.39	1.45	1.50
30	17	303	CLA	C3B-C2B	-2.39	1.37	1.40
30	14	309	CLA	O2A-C1	-2.39	1.39	1.46
30	C	514	CLA	MG-ND	-2.39	2.01	2.05
30	w	102	CLA	CMC-C2C	-2.39	1.45	1.50
30	13	303	CLA	CMD-C2D	-2.39	1.45	1.50
30	c	510	CLA	C3B-C2B	-2.39	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	b	623	BCR	C30-C25	-2.39	1.50	1.53
30	17	303	CLA	C3B-CAB	-2.39	1.43	1.47
42	20	212	A86	O-C13	-2.39	1.18	1.23
42	21	310	A86	O4-C34	-2.39	1.40	1.46
30	C	505	CLA	CHC-C1C	2.39	1.41	1.35
32	B	624	BCR	C30-C25	-2.39	1.50	1.53
31	d	404	PHO	CMC-C2C	-2.39	1.45	1.51
30	14	309	CLA	CMD-C2D	-2.38	1.45	1.50
42	21	311	A86	C-C1	2.38	1.55	1.50
42	12	316	A86	C14-C15	2.38	1.57	1.52
30	11	307	CLA	C3B-CAB	-2.38	1.43	1.47
30	19	303	CLA	C3B-C2B	-2.38	1.37	1.40
42	19	310	A86	C24-C1	2.38	1.51	1.45
30	17	309	CLA	CMD-C2D	-2.38	1.45	1.50
30	18	301	CLA	CMD-C2D	-2.38	1.45	1.50
30	c	509	CLA	CHC-C1C	2.38	1.41	1.35
30	14	310	CLA	CMC-C2C	-2.38	1.45	1.50
42	16	313	A86	O4-C34	-2.38	1.40	1.46
30	c	514	CLA	CMD-C2D	-2.38	1.45	1.50
42	12	315	A86	C14-C15	2.38	1.57	1.52
30	12	306	CLA	CMD-C2D	-2.38	1.45	1.50
36	1	101	LMG	O4-C4	-2.38	1.37	1.43
30	d	402	CLA	MG-ND	-2.38	2.01	2.05
30	c	511	CLA	CMC-C2C	-2.38	1.45	1.50
30	16	309	CLA	MG-ND	-2.38	2.01	2.05
42	13	311	A86	O4-C34	-2.38	1.40	1.46
30	11	308	CLA	CMC-C2C	-2.38	1.45	1.50
30	B	601	CLA	CMD-C2D	-2.38	1.45	1.50
30	b	611	CLA	MG-ND	-2.38	2.01	2.05
30	16	303	CLA	CMD-C2D	-2.38	1.45	1.50
30	C	505	CLA	C4B-CHC	-2.37	1.34	1.41
30	c	502	CLA	CMC-C2C	-2.37	1.45	1.50
30	14	304	CLA	CMD-C2D	-2.37	1.45	1.50
30	C	509	CLA	CHC-C1C	2.37	1.41	1.35
30	19	306	CLA	CMD-C2D	-2.37	1.45	1.50
30	b	614	CLA	C3B-C2B	-2.37	1.37	1.40
30	13	308	CLA	C3B-CAB	-2.37	1.43	1.47
42	12	319	A86	C14-C15	2.37	1.57	1.52
30	B	607	CLA	CMC-C2C	-2.37	1.45	1.50
42	18	314	A86	C-C1	2.37	1.55	1.50
30	C	502	CLA	MG-ND	-2.37	2.01	2.05
30	D	406	CLA	MG-ND	-2.37	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	c	505	CLA	C4B-CHC	-2.37	1.34	1.41
30	21	304	CLA	CMB-C2B	-2.37	1.46	1.51
42	21	310	A86	C24-C1	2.37	1.51	1.45
30	20	203	CLA	C3B-C2B	-2.37	1.37	1.40
30	19	307	CLA	MG-ND	-2.37	2.01	2.05
30	11	302	CLA	CMD-C2D	-2.37	1.45	1.50
42	13	312	A86	C-C1	2.37	1.55	1.50
30	C	510	CLA	CMD-C2D	-2.37	1.45	1.50
30	14	309	CLA	C3B-CAB	-2.37	1.43	1.47
30	B	614	CLA	CMC-C2C	-2.37	1.45	1.50
30	16	303	CLA	MG-ND	-2.37	2.01	2.05
30	b	602	CLA	C3B-CAB	-2.36	1.43	1.47
42	13	311	A86	C14-C15	2.36	1.57	1.52
42	18	313	A86	C14-C15	2.36	1.57	1.52
30	B	603	CLA	CMC-C2C	-2.36	1.45	1.50
36	d	410	LMG	O4-C4	-2.36	1.37	1.43
30	19	306	CLA	C3B-CAB	-2.36	1.43	1.47
30	16	301	CLA	CMD-C2D	-2.36	1.45	1.50
30	C	507	CLA	C1D-ND	2.36	1.40	1.37
30	19	302	CLA	CMD-C2D	-2.36	1.45	1.50
30	13	309	CLA	CMC-C2C	-2.36	1.45	1.50
42	15	314	A86	C14-C15	2.36	1.57	1.52
30	C	512	CLA	CMC-C2C	-2.36	1.45	1.50
30	17	306	CLA	MG-ND	-2.36	2.01	2.05
30	19	307	CLA	C3B-CAB	-2.36	1.43	1.47
30	D	402	CLA	CMD-C2D	-2.36	1.45	1.50
30	11	307	CLA	CMD-C2D	-2.36	1.45	1.50
30	19	307	CLA	CMD-C2D	-2.36	1.45	1.50
31	D	403	PHO	CMD-C2D	-2.35	1.46	1.51
33	B	621	SQD	O3-C3	-2.35	1.37	1.43
30	14	311	CLA	CMD-C2D	-2.35	1.45	1.50
30	c	504	CLA	C3B-CAB	-2.35	1.43	1.47
39	c	518	DGD	O1G-C1G	-2.35	1.39	1.45
30	16	307	CLA	MG-ND	-2.35	2.01	2.05
30	C	505	CLA	CMC-C2C	-2.35	1.45	1.50
30	19	302	CLA	MG-ND	-2.35	2.01	2.05
33	B	621	SQD	O2-C2	-2.35	1.37	1.43
30	11	309	CLA	CMD-C2D	-2.35	1.45	1.50
39	J	101	DGD	O3D-C3D	-2.35	1.37	1.43
30	C	511	CLA	CAA-C2A	-2.35	1.49	1.54
30	12	307	CLA	CMD-C2D	-2.35	1.45	1.50
42	11	311	A86	C-C1	2.35	1.55	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	b	604	CLA	CMC-C2C	-2.35	1.45	1.50
30	B	611	CLA	MG-ND	-2.35	2.01	2.05
42	12	316	A86	C-C1	2.35	1.55	1.50
42	17	316	A86	C24-C1	2.35	1.51	1.45
42	11	310	A86	O4-C34	-2.35	1.40	1.46
30	c	513	CLA	C3B-C2B	-2.35	1.37	1.40
42	18	313	A86	O4-C34	-2.35	1.40	1.46
30	17	303	CLA	CMD-C2D	-2.35	1.45	1.50
30	19	301	CLA	CMD-C2D	-2.35	1.45	1.50
42	15	314	A86	C24-C1	2.35	1.51	1.45
31	d	404	PHO	CMD-C2D	-2.35	1.46	1.51
42	14	316	A86	C24-C1	2.35	1.51	1.45
30	17	309	CLA	CMC-C2C	-2.35	1.45	1.50
42	15	311	A86	C-C1	2.35	1.55	1.50
30	17	308	CLA	CMD-C2D	-2.35	1.45	1.50
31	d	404	PHO	CMB-C2B	-2.35	1.46	1.51
30	16	302	CLA	C3B-CAB	-2.34	1.43	1.47
42	17	316	A86	C14-C15	2.34	1.57	1.52
33	b	620	SQD	O3-C3	-2.34	1.37	1.43
30	C	504	CLA	C3B-CAB	-2.34	1.43	1.47
30	C	506	CLA	C3B-CAB	-2.34	1.43	1.47
30	19	305	CLA	CMD-C2D	-2.34	1.45	1.50
42	14	312	A86	O4-C34	-2.34	1.40	1.46
33	B	621	SQD	O4-C4	-2.34	1.37	1.43
30	d	402	CLA	CMD-C2D	-2.34	1.45	1.50
42	11	311	A86	C24-C1	2.34	1.51	1.45
33	b	620	SQD	O2-C2	-2.34	1.37	1.43
30	17	303	CLA	CMC-C2C	-2.34	1.45	1.50
42	14	301	A86	O4-C34	-2.34	1.40	1.46
30	19	301	CLA	MG-ND	-2.34	2.01	2.05
39	C	517	DGD	O1G-C1G	-2.34	1.39	1.45
30	17	307	CLA	C3B-C2B	-2.34	1.37	1.40
30	W	102	CLA	CMD-C2D	-2.34	1.45	1.50
30	18	309	CLA	CMD-C2D	-2.34	1.45	1.50
42	14	301	A86	C24-C1	2.34	1.51	1.45
33	A	406	SQD	O3-C3	-2.34	1.37	1.43
39	J	101	DGD	O2E-C2E	-2.33	1.37	1.43
42	15	314	A86	O4-C34	-2.33	1.40	1.46
42	15	310	A86	C14-C15	2.33	1.57	1.52
42	14	313	A86	C-C1	2.33	1.55	1.50
30	c	506	CLA	MG-ND	-2.33	2.01	2.05
42	14	312	A86	C14-C15	2.33	1.57	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	20	211	A86	C24-C1	2.33	1.51	1.45
39	c	517	DGD	O2E-C2E	-2.33	1.37	1.43
42	16	313	A86	C14-C15	2.33	1.57	1.52
30	M	101	CLA	CMC-C2C	-2.33	1.45	1.50
30	15	304	CLA	CMD-C2D	-2.33	1.45	1.50
30	18	310	CLA	C3B-C2B	-2.33	1.37	1.40
42	16	310	A86	O4-C34	-2.33	1.40	1.46
30	12	314	CLA	CMD-C2D	-2.33	1.45	1.50
42	11	314	A86	C14-C15	2.33	1.57	1.52
30	11	303	CLA	CMD-C2D	-2.33	1.45	1.50
42	11	314	A86	O4-C34	-2.33	1.40	1.46
42	15	310	A86	O4-C34	-2.33	1.40	1.46
30	B	604	CLA	CMC-C2C	-2.33	1.45	1.50
30	16	303	CLA	CMC-C2C	-2.33	1.45	1.50
30	b	602	CLA	CMD-C2D	-2.33	1.45	1.50
42	13	301	A86	C14-C15	2.33	1.57	1.52
30	c	504	CLA	CMC-C2C	-2.33	1.45	1.50
42	12	316	A86	C24-C1	2.33	1.50	1.45
30	19	307	CLA	C3B-C2B	-2.33	1.37	1.40
30	11	307	CLA	MG-ND	-2.33	2.01	2.05
36	D	408	LMG	O4-C4	-2.33	1.37	1.43
42	17	312	A86	C-C1	2.33	1.55	1.50
30	14	303	CLA	C3B-CAB	-2.33	1.43	1.47
30	16	304	CLA	CMD-C2D	-2.33	1.45	1.50
30	15	308	CLA	MG-ND	-2.33	2.01	2.05
30	C	520	CLA	CMD-C2D	-2.33	1.45	1.50
30	12	310	CLA	CMD-C2D	-2.32	1.45	1.50
30	C	508	CLA	CHC-C1C	2.32	1.40	1.35
42	12	315	A86	O4-C34	-2.32	1.40	1.46
30	w	102	CLA	CMD-C2D	-2.32	1.45	1.50
30	13	307	CLA	CMD-C2D	-2.32	1.45	1.50
30	c	509	CLA	C1D-ND	2.32	1.40	1.37
42	12	319	A86	O4-C34	-2.32	1.40	1.46
30	13	308	CLA	MG-ND	-2.32	2.01	2.05
30	19	301	CLA	C3B-CAB	-2.32	1.43	1.47
30	16	306	CLA	C3B-C2B	-2.32	1.37	1.40
30	13	308	CLA	CMC-C2C	-2.32	1.45	1.50
30	16	308	CLA	CMD-C2D	-2.32	1.45	1.50
30	18	303	CLA	C3B-CAB	-2.32	1.43	1.47
30	b	607	CLA	CMC-C2C	-2.32	1.45	1.50
42	20	211	A86	O4-C34	-2.32	1.40	1.46
30	b	607	CLA	C3B-C2B	-2.32	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	14	305	CLA	CMD-C2D	-2.32	1.45	1.50
30	11	308	CLA	C3B-CAB	-2.32	1.43	1.47
42	11	310	A86	C14-C15	2.32	1.57	1.52
30	B	601	CLA	CMC-C2C	-2.32	1.45	1.50
30	A	402	CLA	MG-ND	-2.32	2.01	2.05
30	b	609	CLA	C3B-CAB	-2.31	1.43	1.47
30	13	302	CLA	C3B-CAB	-2.31	1.43	1.47
30	d	407	CLA	MG-ND	-2.31	2.01	2.05
30	b	601	CLA	MG-ND	-2.31	2.01	2.05
32	f	101	BCR	C30-C25	-2.31	1.50	1.53
36	12	301	LMG	O7-C8	-2.31	1.40	1.46
33	b	620	SQD	O4-C4	-2.31	1.37	1.43
42	14	301	A86	C14-C15	2.31	1.57	1.52
36	12	301	LMG	O6-C5	-2.31	1.38	1.44
39	j	101	DGD	O2E-C2E	-2.31	1.37	1.43
30	C	502	CLA	CMC-C2C	-2.31	1.45	1.50
30	c	508	CLA	CAC-C3C	-2.31	1.45	1.51
42	18	314	A86	C24-C1	2.31	1.50	1.45
30	18	311	CLA	MG-ND	-2.31	2.01	2.05
30	C	504	CLA	CMC-C2C	-2.31	1.45	1.50
30	B	605	CLA	CMC-C2C	-2.31	1.45	1.50
39	C	516	DGD	O2E-C2E	-2.31	1.37	1.43
30	19	301	CLA	CMC-C2C	-2.31	1.45	1.50
30	19	304	CLA	MG-ND	-2.31	2.01	2.05
42	18	302	A86	C14-C15	2.31	1.57	1.52
30	c	511	CLA	CAA-C2A	-2.31	1.49	1.54
30	a	402	CLA	MG-ND	-2.30	2.01	2.05
30	17	308	CLA	C4B-CHC	-2.30	1.34	1.41
30	W	102	CLA	MG-ND	-2.30	2.01	2.05
30	14	309	CLA	MG-ND	-2.30	2.01	2.05
42	16	311	A86	C24-C1	2.30	1.50	1.45
30	b	606	CLA	CAC-C3C	-2.30	1.45	1.51
39	j	101	DGD	O3D-C3D	-2.30	1.37	1.43
42	13	315	A86	C14-C15	2.30	1.57	1.52
30	19	308	CLA	MG-ND	-2.30	2.01	2.05
42	21	311	A86	C24-C1	2.30	1.50	1.45
30	B	606	CLA	CAC-C3C	-2.30	1.45	1.51
42	15	311	A86	C24-C1	2.30	1.50	1.45
30	11	306	CLA	CMD-C2D	-2.30	1.45	1.50
30	c	512	CLA	CMC-C2C	-2.30	1.45	1.50
30	20	209	CLA	C3B-C2B	-2.30	1.37	1.40
30	16	308	CLA	CMC-C2C	-2.30	1.45	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	14	316	A86	O4-C34	-2.29	1.40	1.46
42	11	314	A86	C24-C1	2.29	1.50	1.45
31	d	404	PHO	C3B-CAB	-2.29	1.43	1.47
33	a	405	SQD	O3-C3	-2.29	1.37	1.43
30	D	406	CLA	CMC-C2C	-2.29	1.45	1.50
30	17	305	CLA	MG-ND	-2.29	2.01	2.05
30	c	506	CLA	C3B-CAB	-2.29	1.43	1.47
33	A	406	SQD	O4-C4	-2.29	1.37	1.43
30	B	602	CLA	CMD-C2D	-2.29	1.45	1.50
30	20	203	CLA	CMD-C2D	-2.29	1.45	1.50
30	c	508	CLA	C3B-C2B	-2.29	1.37	1.40
42	17	316	A86	O4-C34	-2.29	1.40	1.46
31	D	403	PHO	CMB-C2B	-2.29	1.46	1.51
30	19	309	CLA	CMD-C2D	-2.29	1.46	1.50
30	14	305	CLA	C3B-CAB	-2.29	1.43	1.47
30	14	309	CLA	CMC-C2C	-2.28	1.46	1.50
30	20	208	CLA	CMB-C2B	-2.28	1.46	1.51
30	b	601	CLA	CMD-C2D	-2.28	1.46	1.50
33	l	101	SQD	O2-C2	-2.28	1.37	1.43
42	16	311	A86	C-C1	2.28	1.55	1.50
42	15	316	A86	C14-C15	2.28	1.57	1.52
30	13	309	CLA	C3B-CAB	-2.28	1.43	1.47
30	12	311	CLA	CMC-C2C	-2.28	1.46	1.50
30	C	506	CLA	MG-ND	-2.28	2.01	2.05
30	M	101	CLA	MG-ND	-2.28	2.01	2.05
42	21	314	A86	O4-C34	-2.28	1.40	1.46
36	B	619	LMG	O1-C7	-2.28	1.39	1.43
30	b	601	CLA	CMC-C2C	-2.28	1.46	1.50
40	d	405	PL9	C36-C34	-2.28	1.46	1.51
39	C	516	DGD	O4D-C4D	-2.28	1.37	1.43
30	B	608	CLA	CMC-C2C	-2.28	1.46	1.50
30	14	310	CLA	C3B-CAB	-2.28	1.43	1.47
30	19	306	CLA	MG-ND	-2.28	2.01	2.05
30	b	608	CLA	C3B-CAB	-2.27	1.43	1.47
36	b	618	LMG	O1-C7	-2.27	1.39	1.43
42	11	316	A86	C14-C15	2.27	1.57	1.52
32	F	101	BCR	C30-C25	-2.27	1.50	1.53
30	16	305	CLA	MG-ND	-2.27	2.01	2.05
39	c	517	DGD	O4D-C4D	-2.27	1.37	1.43
30	C	512	CLA	CMD-C2D	-2.27	1.46	1.50
30	b	608	CLA	CMC-C2C	-2.27	1.46	1.50
30	13	310	CLA	CMD-C2D	-2.27	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	13	304	CLA	CMD-C2D	-2.27	1.46	1.50
42	14	313	A86	C24-C1	2.27	1.50	1.45
30	11	301	CLA	C3B-CAB	-2.27	1.43	1.47
30	B	603	CLA	C4B-CHC	-2.27	1.34	1.41
39	h	102	DGD	O4D-C4D	-2.27	1.37	1.43
30	b	609	CLA	CMC-C2C	-2.27	1.46	1.50
30	19	305	CLA	MG-ND	-2.27	2.01	2.05
36	b	618	LMG	O8-C9	-2.27	1.40	1.45
30	B	601	CLA	MG-ND	-2.27	2.01	2.05
30	19	309	CLA	MG-ND	-2.27	2.01	2.05
30	B	609	CLA	C3B-CAB	-2.27	1.43	1.47
42	13	312	A86	C24-C1	2.27	1.50	1.45
30	18	309	CLA	CMC-C2C	-2.26	1.46	1.50
30	12	313	CLA	C3B-CAB	-2.26	1.43	1.47
42	14	316	A86	C14-C15	2.26	1.57	1.52
30	14	308	CLA	CMD-C2D	-2.26	1.46	1.50
30	c	513	CLA	MG-ND	-2.26	2.01	2.05
30	d	407	CLA	CMC-C2C	-2.26	1.46	1.50
30	17	304	CLA	CMD-C2D	-2.26	1.46	1.50
30	c	508	CLA	CHC-C1C	2.26	1.40	1.35
42	15	315	A86	C14-C15	2.26	1.57	1.52
42	12	319	A86	C24-C1	2.26	1.50	1.45
36	Q	301	LMG	O4-C4	-2.26	1.37	1.43
42	12	304	A86	C14-C15	2.26	1.57	1.52
42	21	311	A86	O4-C34	-2.26	1.40	1.46
33	a	405	SQD	O4-C4	-2.26	1.37	1.43
30	18	311	CLA	CMC-C2C	-2.26	1.46	1.50
30	C	508	CLA	CAC-C3C	-2.26	1.45	1.51
31	D	403	PHO	C3B-CAB	-2.26	1.43	1.47
39	j	101	DGD	O2D-C2D	-2.26	1.37	1.43
30	z	101	CLA	C3B-CAB	-2.26	1.43	1.47
30	b	603	CLA	C4B-CHC	-2.26	1.34	1.41
39	H	102	DGD	O4D-C4D	-2.25	1.37	1.43
42	17	311	A86	O4-C34	-2.25	1.41	1.46
30	16	301	CLA	C3B-C2B	-2.25	1.37	1.40
42	18	314	A86	O4-C34	-2.25	1.41	1.46
30	18	306	CLA	CMD-C2D	-2.25	1.46	1.50
42	20	213	A86	O4-C34	-2.25	1.41	1.46
42	12	315	A86	C24-C1	2.25	1.50	1.45
30	11	307	CLA	CMC-C2C	-2.25	1.46	1.50
30	20	208	CLA	CMC-C2C	-2.25	1.46	1.50
30	m	101	CLA	CMC-C2C	-2.25	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	20	201	A86	O4-C34	-2.25	1.41	1.46
30	14	302	CLA	C3B-C2B	-2.25	1.37	1.40
30	18	301	CLA	MG-ND	-2.25	2.01	2.05
30	19	303	CLA	CMD-C2D	-2.25	1.46	1.50
30	12	305	CLA	C3B-CAB	-2.25	1.43	1.47
39	J	101	DGD	O2D-C2D	-2.25	1.37	1.43
42	17	312	A86	O4-C34	-2.25	1.41	1.46
30	16	306	CLA	CMC-C2C	-2.25	1.46	1.50
30	13	303	CLA	MG-ND	-2.25	2.01	2.05
36	b	619	LMG	O2-C2	-2.25	1.37	1.43
42	17	315	A86	O4-C34	-2.25	1.41	1.46
42	16	313	A86	C24-C1	2.25	1.50	1.45
30	B	608	CLA	C3B-CAB	-2.24	1.43	1.47
36	B	620	LMG	O2-C2	-2.24	1.37	1.43
30	17	305	CLA	CMC-C2C	-2.24	1.46	1.50
36	c	519	LMG	O4-C4	-2.24	1.37	1.43
30	C	519	CLA	C3B-CAB	-2.24	1.43	1.47
30	m	101	CLA	MG-ND	-2.24	2.01	2.05
30	20	206	CLA	CMD-C2D	-2.24	1.46	1.50
30	C	513	CLA	MG-ND	-2.24	2.01	2.05
42	14	313	A86	O4-C34	-2.24	1.41	1.46
42	12	316	A86	O4-C34	-2.24	1.41	1.46
30	12	307	CLA	C3B-CAB	-2.24	1.43	1.47
30	16	304	CLA	MG-ND	-2.24	2.01	2.05
42	15	310	A86	C24-C1	2.23	1.50	1.45
30	b	606	CLA	MG-ND	-2.23	2.01	2.05
30	C	509	CLA	C4B-CHC	-2.23	1.34	1.41
30	b	605	CLA	CMC-C2C	-2.23	1.46	1.50
30	b	609	CLA	MG-ND	-2.23	2.01	2.05
30	15	308	CLA	CMC-C2C	-2.23	1.46	1.50
36	b	619	LMG	O3-C3	-2.23	1.37	1.43
42	17	312	A86	C24-C1	2.23	1.50	1.45
30	w	102	CLA	MG-ND	-2.23	2.01	2.05
37	B	625	LMU	O3'-C3'	2.23	1.48	1.43
30	13	307	CLA	C3B-C2B	-2.23	1.37	1.40
30	B	609	CLA	CMC-C2C	-2.23	1.46	1.50
36	B	619	LMG	O8-C9	-2.23	1.40	1.45
30	14	303	CLA	CMD-C2D	-2.23	1.46	1.50
30	14	305	CLA	CMC-C2C	-2.23	1.46	1.50
42	11	310	A86	C24-C1	2.23	1.50	1.45
30	B	609	CLA	MG-ND	-2.23	2.01	2.05
30	b	622	CLA	CMC-C2C	-2.23	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	12	305	CLA	CMD-C2D	-2.23	1.46	1.50
30	b	604	CLA	C3B-CAB	-2.23	1.43	1.47
30	B	607	CLA	C3B-C2B	-2.23	1.37	1.40
30	15	308	CLA	CMD-C2D	-2.23	1.46	1.50
36	b	618	LMG	O4-C4	-2.23	1.37	1.43
42	11	311	A86	O4-C34	-2.23	1.41	1.46
39	C	517	DGD	O2E-C2E	-2.23	1.37	1.43
39	c	518	DGD	O2E-C2E	-2.23	1.37	1.43
42	13	312	A86	O4-C34	-2.23	1.41	1.46
30	13	304	CLA	C3B-CAB	-2.23	1.43	1.47
30	c	513	CLA	CMC-C2C	-2.23	1.46	1.50
30	17	310	CLA	CMD-C2D	-2.23	1.46	1.50
30	17	309	CLA	MG-ND	-2.23	2.01	2.05
30	14	308	CLA	C3B-C2B	-2.23	1.37	1.40
39	j	101	DGD	O6D-C5D	-2.23	1.38	1.44
30	16	304	CLA	CMC-C2C	-2.23	1.46	1.50
30	11	302	CLA	MG-ND	-2.23	2.01	2.05
36	B	620	LMG	O3-C3	-2.22	1.37	1.43
30	15	301	CLA	CMD-C2D	-2.22	1.46	1.50
30	b	614	CLA	C4B-CHC	-2.22	1.34	1.41
30	c	502	CLA	C4B-CHC	-2.22	1.34	1.41
30	11	302	CLA	CMC-C2C	-2.22	1.46	1.50
30	b	611	CLA	CAC-C3C	-2.22	1.45	1.51
30	b	614	CLA	MG-ND	-2.22	2.01	2.05
30	20	209	CLA	MG-ND	-2.22	2.01	2.05
30	D	406	CLA	C3B-CAB	-2.22	1.43	1.47
30	11	303	CLA	MG-ND	-2.22	2.01	2.05
30	C	513	CLA	CMC-C2C	-2.22	1.46	1.50
42	20	212	A86	C14-C15	2.22	1.57	1.52
30	D	405	CLA	CAA-C2A	-2.22	1.50	1.54
42	15	311	A86	O4-C34	-2.22	1.41	1.46
30	18	304	CLA	CMD-C2D	-2.22	1.46	1.50
30	B	611	CLA	C3B-CAB	-2.22	1.43	1.47
30	C	508	CLA	C3B-C2B	-2.22	1.37	1.40
30	12	307	CLA	MG-ND	-2.22	2.01	2.05
30	c	512	CLA	CMD-C2D	-2.22	1.46	1.50
30	B	611	CLA	CAC-C3C	-2.22	1.45	1.51
33	L	103	SQD	O2-C2	-2.22	1.37	1.43
30	C	511	CLA	C1D-ND	2.21	1.40	1.37
30	B	604	CLA	C3B-CAB	-2.21	1.43	1.47
30	13	302	CLA	CMD-C2D	-2.21	1.46	1.50
30	12	310	CLA	C3B-C2B	-2.21	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C	520	CLA	MG-ND	-2.21	2.01	2.05
30	19	308	CLA	CMC-C2C	-2.21	1.46	1.50
42	13	311	A86	C24-C1	2.21	1.50	1.45
30	11	303	CLA	CMC-C2C	-2.21	1.46	1.50
36	B	619	LMG	O4-C4	-2.21	1.37	1.43
30	17	309	CLA	O2A-CGA	2.21	1.38	1.30
30	14	304	CLA	CMC-C2C	-2.21	1.46	1.50
30	11	303	CLA	C3B-CAB	-2.21	1.43	1.47
30	c	509	CLA	C4B-CHC	-2.21	1.34	1.41
30	14	304	CLA	MG-ND	-2.21	2.01	2.05
30	20	206	CLA	MG-ND	-2.21	2.01	2.05
42	16	311	A86	O4-C34	-2.21	1.41	1.46
30	17	304	CLA	MG-ND	-2.20	2.01	2.05
30	d	406	CLA	CAA-C2A	-2.20	1.50	1.54
30	12	307	CLA	CMC-C2C	-2.20	1.46	1.50
30	d	402	CLA	CMC-C2C	-2.20	1.46	1.50
30	C	502	CLA	C4B-CHC	-2.20	1.34	1.41
30	15	309	CLA	CMD-C2D	-2.20	1.46	1.50
30	B	606	CLA	MG-ND	-2.20	2.01	2.05
30	11	301	CLA	CMD-C2D	-2.20	1.46	1.50
30	B	614	CLA	C4B-CHC	-2.20	1.34	1.41
30	15	306	CLA	CMC-C2C	-2.20	1.46	1.50
30	18	303	CLA	CMD-C2D	-2.20	1.46	1.50
30	13	304	CLA	CMC-C2C	-2.20	1.46	1.50
42	14	312	A86	C24-C1	2.20	1.50	1.45
30	17	305	CLA	CMD-C2D	-2.20	1.46	1.50
30	17	304	CLA	CMC-C2C	-2.20	1.46	1.50
30	19	306	CLA	CMC-C2C	-2.20	1.46	1.50
42	17	302	A86	O4-C34	-2.20	1.41	1.46
30	21	302	CLA	CMD-C2D	-2.20	1.46	1.50
30	b	615	CLA	C3B-CAB	-2.20	1.43	1.47
30	14	305	CLA	MG-ND	-2.19	2.01	2.05
39	c	517	DGD	O2G-C2G	-2.19	1.41	1.46
30	14	302	CLA	CMC-C2C	-2.19	1.46	1.50
30	18	303	CLA	CMC-C2C	-2.19	1.46	1.50
30	16	301	CLA	C3B-CAB	-2.19	1.43	1.47
40	D	404	PL9	C36-C34	-2.19	1.46	1.51
30	20	206	CLA	C3B-C2B	-2.19	1.37	1.40
30	18	312	CLA	CMD-C2D	-2.19	1.46	1.50
30	13	304	CLA	MG-ND	-2.19	2.01	2.05
30	12	303	CLA	C3B-C2B	-2.19	1.37	1.40
30	15	303	CLA	CMD-C2D	-2.19	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	14	302	CLA	MG-ND	-2.19	2.01	2.05
30	17	305	CLA	C3B-CAB	-2.19	1.43	1.47
30	B	615	CLA	C3B-CAB	-2.19	1.43	1.47
30	12	312	CLA	CMC-C2C	-2.19	1.46	1.50
30	16	304	CLA	C3B-CAB	-2.18	1.43	1.47
32	f	101	BCR	C33-C5	-2.18	1.47	1.50
30	16	302	CLA	CMD-C2D	-2.18	1.46	1.50
30	18	308	CLA	CMD-C2D	-2.18	1.46	1.50
30	15	307	CLA	CMC-C2C	-2.18	1.46	1.50
39	c	517	DGD	O3D-C3D	-2.18	1.37	1.43
32	F	101	BCR	C33-C5	-2.18	1.47	1.50
30	18	301	CLA	CMC-C2C	-2.18	1.46	1.50
30	d	407	CLA	C3B-CAB	-2.18	1.43	1.47
31	d	403	PHO	CAA-C2A	-2.18	1.49	1.54
30	11	306	CLA	C3B-C2B	-2.18	1.37	1.40
30	21	307	CLA	CMD-C2D	-2.18	1.46	1.50
30	20	207	CLA	CMD-C2D	-2.18	1.46	1.50
30	11	315	CLA	C3B-C2B	-2.18	1.37	1.40
30	15	302	CLA	CMD-C2D	-2.18	1.46	1.50
30	C	510	CLA	CMA-C3A	-2.18	1.48	1.53
30	18	310	CLA	MG-ND	-2.18	2.01	2.05
30	M	101	CLA	C3B-CAB	-2.18	1.43	1.47
30	b	604	CLA	CHC-C1C	2.18	1.40	1.35
39	C	516	DGD	O2G-C2G	-2.18	1.41	1.46
30	20	203	CLA	MG-ND	-2.18	2.01	2.05
30	D	402	CLA	CMC-C2C	-2.17	1.46	1.50
30	20	205	CLA	MG-ND	-2.17	2.01	2.05
42	17	314	A86	O4-C34	-2.17	1.41	1.46
30	15	301	CLA	CMC-C2C	-2.17	1.46	1.50
30	B	614	CLA	MG-ND	-2.17	2.01	2.05
30	16	304	CLA	C3B-C2B	-2.17	1.37	1.40
30	c	511	CLA	C1D-ND	2.17	1.40	1.37
39	C	516	DGD	O3D-C3D	-2.17	1.37	1.43
30	b	603	CLA	C3B-CAB	-2.17	1.43	1.47
30	21	301	CLA	C3B-C2B	-2.17	1.37	1.40
30	12	312	CLA	MG-ND	-2.17	2.01	2.05
30	b	611	CLA	C3B-CAB	-2.17	1.43	1.47
39	J	101	DGD	O6D-C5D	-2.17	1.39	1.44
30	19	303	CLA	CMC-C2C	-2.17	1.46	1.50
30	20	204	CLA	CMD-C2D	-2.17	1.46	1.50
30	15	308	CLA	C3B-CAB	-2.17	1.43	1.47
30	12	312	CLA	C3B-C2B	-2.17	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	20	204	CLA	C3B-C2B	-2.17	1.37	1.40
30	19	305	CLA	C3B-CAB	-2.17	1.43	1.47
30	11	305	CLA	CMD-C2D	-2.17	1.46	1.50
30	21	308	CLA	CMD-C2D	-2.17	1.46	1.50
30	D	405	CLA	C1D-ND	2.16	1.40	1.37
42	13	315	A86	O4-C34	-2.16	1.41	1.46
30	C	502	CLA	CAC-C3C	-2.16	1.45	1.51
30	13	303	CLA	C3B-C2B	-2.16	1.37	1.40
30	B	603	CLA	C3B-CAB	-2.16	1.43	1.47
30	16	301	CLA	MG-ND	-2.16	2.01	2.05
30	18	308	CLA	MG-ND	-2.16	2.01	2.05
39	c	517	DGD	O4E-C4E	-2.16	1.37	1.43
42	18	313	A86	C24-C1	2.16	1.50	1.45
30	12	306	CLA	MG-ND	-2.16	2.01	2.05
30	c	506	CLA	C4B-CHC	-2.16	1.35	1.41
32	c	520	BCR	C33-C5	-2.16	1.47	1.50
30	B	623	CLA	CMC-C2C	-2.16	1.46	1.50
30	C	506	CLA	C4B-CHC	-2.16	1.35	1.41
30	17	303	CLA	MG-ND	-2.16	2.01	2.05
30	m	101	CLA	C3B-CAB	-2.16	1.43	1.47
30	11	302	CLA	C3B-C2B	-2.16	1.37	1.40
36	1	101	LMG	O6-C5	-2.16	1.39	1.44
31	A	403	PHO	CAA-C2A	-2.15	1.49	1.54
30	b	611	CLA	C4B-CHC	-2.15	1.35	1.41
42	18	302	A86	O4-C34	-2.15	1.41	1.46
31	d	404	PHO	C1C-NC	-2.15	1.31	1.38
30	C	503	CLA	CHC-C1C	2.15	1.40	1.35
30	11	315	CLA	CMC-C2C	-2.15	1.46	1.50
30	12	306	CLA	CMC-C2C	-2.15	1.46	1.50
30	C	520	CLA	CMC-C2C	-2.15	1.46	1.50
30	21	301	CLA	CMD-C2D	-2.15	1.46	1.50
42	13	314	A86	O4-C34	-2.15	1.41	1.46
42	19	310	A86	O4-C34	-2.15	1.41	1.46
30	13	303	CLA	CMC-C2C	-2.15	1.46	1.50
30	17	310	CLA	CMC-C2C	-2.15	1.46	1.50
36	B	620	LMG	O7-C8	-2.15	1.41	1.46
30	20	209	CLA	CMD-C2D	-2.15	1.46	1.50
30	13	306	CLA	CMC-C2C	-2.15	1.46	1.50
42	20	210	A86	O4-C34	-2.15	1.41	1.46
42	21	313	A86	O4-C34	-2.14	1.41	1.46
30	18	305	CLA	CMD-C2D	-2.14	1.46	1.50
31	D	403	PHO	C3B-C2B	-2.14	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	15	303	CLA	CMC-C2C	-2.14	1.46	1.50
30	B	611	CLA	C4B-CHC	-2.14	1.35	1.41
30	18	305	CLA	C3B-C2B	-2.14	1.37	1.40
30	19	306	CLA	C4B-CHC	-2.14	1.35	1.41
30	18	305	CLA	CMC-C2C	-2.14	1.46	1.50
32	B	624	BCR	C33-C5	-2.14	1.47	1.50
30	20	207	CLA	MG-ND	-2.14	2.01	2.05
30	c	502	CLA	CAC-C3C	-2.14	1.45	1.51
30	15	309	CLA	MG-ND	-2.14	2.01	2.05
30	15	307	CLA	CMD-C2D	-2.14	1.46	1.50
30	15	307	CLA	C3B-CAB	-2.14	1.43	1.47
30	20	205	CLA	C3B-C2B	-2.14	1.37	1.40
30	13	304	CLA	C3B-C2B	-2.14	1.37	1.40
31	D	403	PHO	C1C-NC	-2.14	1.31	1.38
30	z	101	CLA	CMC-C2C	-2.14	1.46	1.50
30	19	302	CLA	CMC-C2C	-2.14	1.46	1.50
31	A	403	PHO	C1C-NC	-2.14	1.31	1.38
36	m	102	LMG	O8-C9	-2.13	1.40	1.45
30	19	305	CLA	CMC-C2C	-2.13	1.46	1.50
30	a	403	CLA	C1D-ND	2.13	1.40	1.37
30	20	207	CLA	C3B-C2B	-2.13	1.37	1.40
32	c	516	BCR	C38-C26	-2.13	1.47	1.50
42	14	315	A86	O4-C34	-2.13	1.41	1.46
30	C	510	CLA	C3B-CAB	-2.13	1.43	1.47
30	12	314	CLA	MG-ND	-2.13	2.01	2.05
30	17	305	CLA	C3B-C2B	-2.13	1.37	1.40
30	b	607	CLA	C3B-CAB	-2.13	1.43	1.47
30	21	305	CLA	CMD-C2D	-2.13	1.46	1.50
30	12	303	CLA	MG-ND	-2.13	2.01	2.05
32	C	515	BCR	C33-C5	-2.13	1.47	1.50
30	c	510	CLA	CMA-C3A	-2.13	1.48	1.53
42	20	210	A86	C14-C15	2.13	1.56	1.52
39	C	517	DGD	O2D-C2D	-2.13	1.38	1.43
30	d	401	CLA	CAC-C3C	-2.12	1.45	1.51
30	15	301	CLA	C3B-CAB	-2.12	1.43	1.47
39	h	102	DGD	O3D-C3D	-2.12	1.38	1.43
30	11	315	CLA	MG-ND	-2.12	2.01	2.05
31	d	403	PHO	C1C-NC	-2.12	1.32	1.38
30	17	304	CLA	C3B-C2B	-2.12	1.37	1.40
30	c	511	CLA	C3B-C2B	-2.12	1.37	1.40
30	20	205	CLA	CMD-C2D	-2.12	1.46	1.50
31	d	404	PHO	C3B-C2B	-2.12	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	C	507	CLA	C3B-CAB	-2.12	1.43	1.47
30	18	311	CLA	C3B-C2B	-2.12	1.37	1.40
30	b	615	CLA	C4B-CHC	-2.12	1.35	1.41
30	B	615	CLA	C4B-CHC	-2.12	1.35	1.41
30	20	205	CLA	C4B-CHC	-2.12	1.35	1.41
30	12	303	CLA	CMC-C2C	-2.12	1.46	1.50
30	13	310	CLA	MG-ND	-2.12	2.01	2.05
39	c	518	DGD	O2D-C2D	-2.12	1.38	1.43
30	C	519	CLA	CMD-C2D	-2.12	1.46	1.50
30	B	607	CLA	C4B-CHC	-2.12	1.35	1.41
32	C	515	BCR	C38-C26	-2.12	1.47	1.50
30	C	508	CLA	C3B-CAB	-2.12	1.43	1.47
30	11	305	CLA	CMC-C2C	-2.12	1.46	1.50
30	A	404	CLA	C1D-ND	2.12	1.40	1.37
30	14	306	CLA	CMC-C2C	-2.12	1.46	1.50
30	21	306	CLA	CMD-C2D	-2.12	1.46	1.50
30	B	604	CLA	CHC-C1C	2.12	1.40	1.35
30	18	312	CLA	MG-ND	-2.12	2.01	2.05
30	B	606	CLA	C5-C3	-2.12	1.46	1.51
33	L	103	SQD	O3-C3	-2.12	1.38	1.43
42	11	313	A86	O4-C34	-2.11	1.41	1.46
30	14	304	CLA	C3B-C2B	-2.11	1.37	1.40
30	C	519	CLA	CMC-C2C	-2.11	1.46	1.50
30	D	401	CLA	CAC-C3C	-2.11	1.45	1.51
39	j	101	DGD	O4E-C4E	-2.11	1.38	1.43
42	12	318	A86	O4-C34	-2.11	1.41	1.46
39	j	101	DGD	O3G-C3G	-2.11	1.39	1.43
33	B	621	SQD	O47-C45	-2.11	1.41	1.46
42	15	315	A86	O4-C34	-2.11	1.41	1.46
39	j	101	DGD	O4D-C4D	-2.11	1.38	1.43
33	b	620	SQD	O47-C45	-2.11	1.41	1.46
30	B	607	CLA	C3B-CAB	-2.11	1.43	1.47
30	b	606	CLA	C5-C3	-2.11	1.46	1.51
30	b	605	CLA	CAC-C3C	-2.11	1.45	1.51
30	b	610	CLA	CAC-C3C	-2.11	1.45	1.51
30	19	307	CLA	CMC-C2C	-2.11	1.46	1.50
30	c	510	CLA	C3B-CAB	-2.11	1.43	1.47
32	Y	101	BCR	C33-C5	-2.11	1.47	1.50
30	20	204	CLA	C3B-CAB	-2.10	1.43	1.47
39	J	101	DGD	O4D-C4D	-2.10	1.38	1.43
30	14	307	CLA	CMD-C2D	-2.10	1.46	1.50
36	b	619	LMG	O7-C8	-2.10	1.41	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	d	408	PL9	C15-C14	-2.10	1.45	1.50
30	b	607	CLA	C4B-CHC	-2.10	1.35	1.41
30	15	307	CLA	MG-ND	-2.10	2.01	2.05
30	18	301	CLA	C3B-CAB	-2.10	1.43	1.47
30	17	301	CLA	CMC-C2C	-2.10	1.46	1.50
30	d	401	CLA	C4B-CHC	-2.10	1.35	1.41
42	13	301	A86	O4-C34	-2.10	1.41	1.46
30	20	207	CLA	CMC-C2C	-2.10	1.46	1.50
30	14	311	CLA	MG-ND	-2.10	2.01	2.05
30	C	511	CLA	CAC-C3C	-2.10	1.45	1.51
30	C	520	CLA	C3B-C2B	-2.10	1.37	1.40
30	c	503	CLA	CHC-C1C	2.10	1.40	1.35
30	b	608	CLA	MG-ND	-2.10	2.01	2.05
42	15	313	A86	O4-C34	-2.10	1.41	1.46
30	c	507	CLA	C3B-CAB	-2.10	1.43	1.47
32	c	516	BCR	C33-C5	-2.10	1.47	1.50
30	21	301	CLA	CMC-C2C	-2.10	1.46	1.50
30	B	605	CLA	CAC-C3C	-2.10	1.45	1.51
30	21	306	CLA	C3B-C2B	-2.10	1.37	1.40
39	J	101	DGD	O4E-C4E	-2.10	1.38	1.43
30	D	401	CLA	C4B-CHC	-2.09	1.35	1.41
30	18	306	CLA	MG-ND	-2.09	2.01	2.05
30	b	602	CLA	CAC-C3C	-2.09	1.45	1.51
30	12	309	CLA	CMC-C2C	-2.09	1.46	1.50
30	20	204	CLA	MG-ND	-2.09	2.01	2.05
30	c	511	CLA	CAC-C3C	-2.09	1.45	1.51
30	13	305	CLA	CMC-C2C	-2.09	1.46	1.50
39	C	516	DGD	O4E-C4E	-2.09	1.38	1.43
30	15	304	CLA	CMC-C2C	-2.09	1.46	1.50
40	D	407	PL9	C15-C14	-2.09	1.45	1.50
30	d	406	CLA	C1D-ND	2.09	1.40	1.37
39	c	517	DGD	O3G-C1D	-2.09	1.36	1.40
30	B	613	CLA	C3B-CAB	-2.08	1.43	1.47
30	Z	102	CLA	CMD-C2D	-2.08	1.46	1.50
42	11	316	A86	O4-C34	-2.08	1.41	1.46
33	L	103	SQD	O4-C4	-2.08	1.38	1.43
30	21	304	CLA	CMD-C2D	-2.08	1.46	1.50
42	12	304	A86	O4-C34	-2.08	1.41	1.46
30	21	304	CLA	MG-ND	-2.08	2.01	2.05
36	M	102	LMG	O8-C9	-2.08	1.40	1.45
30	C	511	CLA	C3B-C2B	-2.08	1.37	1.40
33	l	101	SQD	O3-C3	-2.08	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	J	101	DGD	O3G-C3G	-2.08	1.39	1.43
30	B	612	CLA	C3B-CAB	-2.08	1.43	1.47
30	21	303	CLA	C3B-CAB	-2.08	1.43	1.47
41	F	102	HEM	CAA-C2A	2.08	1.55	1.52
30	16	305	CLA	C4B-CHC	-2.08	1.35	1.41
30	21	302	CLA	CMC-C2C	-2.08	1.46	1.50
42	18	315	A86	O4-C34	-2.08	1.41	1.46
30	11	302	CLA	C4B-CHC	-2.08	1.35	1.41
30	13	306	CLA	CMD-C2D	-2.08	1.46	1.50
30	20	204	CLA	CMC-C2C	-2.08	1.46	1.50
30	b	612	CLA	C3B-CAB	-2.07	1.43	1.47
42	19	310	A86	C14-C15	2.07	1.56	1.52
30	12	306	CLA	C4B-CHC	-2.07	1.35	1.41
30	C	510	CLA	C4B-CHC	-2.07	1.35	1.41
30	12	307	CLA	C3B-C2B	-2.07	1.37	1.40
33	A	406	SQD	O47-C45	-2.07	1.41	1.46
42	15	316	A86	O4-C34	-2.07	1.41	1.46
30	B	610	CLA	CAC-C3C	-2.07	1.45	1.51
30	14	304	CLA	C4B-CHC	-2.07	1.35	1.41
30	20	203	CLA	C4B-CHC	-2.07	1.35	1.41
30	11	303	CLA	C3B-C2B	-2.07	1.37	1.40
30	12	309	CLA	CMD-C2D	-2.07	1.46	1.50
30	C	502	CLA	C3B-CAB	-2.07	1.43	1.47
30	c	510	CLA	C4B-CHC	-2.07	1.35	1.41
30	20	202	CLA	CMC-C2C	-2.07	1.46	1.50
30	B	623	CLA	C3B-CAB	-2.07	1.43	1.47
30	14	307	CLA	MG-ND	-2.07	2.01	2.05
30	16	306	CLA	C4B-CHC	-2.07	1.35	1.41
30	17	310	CLA	MG-ND	-2.07	2.01	2.05
39	h	102	DGD	O2D-C2D	-2.07	1.38	1.43
32	h	101	BCR	C33-C5	-2.07	1.47	1.50
30	D	405	CLA	C3B-CAB	-2.07	1.43	1.47
30	b	613	CLA	C4B-CHC	-2.07	1.35	1.41
30	c	502	CLA	C3B-CAB	-2.06	1.43	1.47
30	13	310	CLA	CMC-C2C	-2.06	1.46	1.50
30	c	508	CLA	C3B-CAB	-2.06	1.43	1.47
41	v	201	HEM	CHC-C4B	-2.06	1.35	1.41
30	12	313	CLA	C4B-CHC	-2.06	1.35	1.41
30	17	304	CLA	C4B-CHC	-2.06	1.35	1.41
30	14	310	CLA	C4B-CHC	-2.06	1.35	1.41
30	13	303	CLA	C4B-CHC	-2.06	1.35	1.41
33	l	101	SQD	O4-C4	-2.06	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	H	102	DGD	O3D-C3D	-2.06	1.38	1.43
30	11	309	CLA	CMC-C2C	-2.06	1.46	1.50
30	11	309	CLA	MG-ND	-2.06	2.01	2.05
30	15	302	CLA	CMC-C2C	-2.06	1.46	1.50
30	14	305	CLA	C3B-C2B	-2.06	1.37	1.40
30	15	305	CLA	CMD-C2D	-2.06	1.46	1.50
30	b	606	CLA	C4B-CHC	-2.06	1.35	1.41
36	M	102	LMG	O2-C2	-2.06	1.38	1.43
41	f	102	HEM	CAA-C2A	2.06	1.55	1.52
32	c	515	BCR	C33-C5	-2.06	1.47	1.50
30	15	309	CLA	C3B-CAB	-2.06	1.43	1.47
30	14	307	CLA	CMC-C2C	-2.06	1.46	1.50
30	b	615	CLA	CAC-C3C	-2.06	1.45	1.51
30	B	606	CLA	C4B-CHC	-2.05	1.35	1.41
30	C	507	CLA	C4B-CHC	-2.05	1.35	1.41
32	b	623	BCR	C33-C5	-2.05	1.47	1.50
30	B	623	CLA	C1D-ND	2.05	1.40	1.37
42	21	311	A86	C14-C15	2.05	1.56	1.52
30	19	304	CLA	CMD-C2D	-2.05	1.46	1.50
30	20	205	CLA	CMC-C2C	-2.05	1.46	1.50
30	d	406	CLA	C3B-CAB	-2.05	1.43	1.47
30	17	307	CLA	MG-ND	-2.05	2.01	2.05
30	11	304	CLA	CMC-C2C	-2.05	1.46	1.50
32	Y	101	BCR	C34-C9	-2.05	1.46	1.50
30	11	305	CLA	MG-ND	-2.05	2.01	2.05
42	16	310	A86	C14-C15	2.05	1.56	1.52
30	21	303	CLA	MG-ND	-2.05	2.01	2.05
42	20	211	A86	C14-C15	2.05	1.56	1.52
30	C	519	CLA	C3B-C2B	-2.05	1.37	1.40
30	z	101	CLA	CMD-C2D	-2.05	1.46	1.50
30	20	208	CLA	CMD-C2D	-2.05	1.46	1.50
30	B	613	CLA	C4B-CHC	-2.05	1.35	1.41
30	20	202	CLA	CMD-C2D	-2.05	1.46	1.50
30	d	402	CLA	C4B-CHC	-2.05	1.35	1.41
30	18	301	CLA	C4B-CHC	-2.05	1.35	1.41
30	B	608	CLA	MG-ND	-2.05	2.01	2.05
30	11	308	CLA	C4B-CHC	-2.05	1.35	1.41
30	13	310	CLA	C3B-C2B	-2.05	1.37	1.40
30	c	507	CLA	C4B-CHC	-2.04	1.35	1.41
30	B	602	CLA	CAC-C3C	-2.04	1.45	1.51
30	18	304	CLA	C4B-CHC	-2.04	1.35	1.41
30	15	307	CLA	C3B-C2B	-2.04	1.37	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	14	311	CLA	C3B-C2B	-2.04	1.37	1.40
41	V	201	HEM	CHC-C4B	-2.04	1.35	1.41
40	D	404	PL9	C41-C39	-2.04	1.47	1.51
30	21	304	CLA	CMC-C2C	-2.04	1.46	1.50
30	b	613	CLA	C3B-CAB	-2.04	1.43	1.47
30	B	615	CLA	CAC-C3C	-2.04	1.45	1.51
30	21	309	CLA	O2A-CGA	2.04	1.37	1.30
30	12	308	CLA	CMC-C2C	-2.04	1.46	1.50
30	14	311	CLA	CMC-C2C	-2.04	1.46	1.50
36	c	519	LMG	O2-C2	-2.04	1.38	1.43
30	13	306	CLA	MG-ND	-2.04	2.01	2.05
42	17	302	A86	C35-C34	2.04	1.55	1.51
30	18	312	CLA	C3B-CAB	-2.04	1.43	1.47
42	21	313	A86	C14-C15	2.04	1.56	1.52
30	12	306	CLA	C3B-C2B	-2.03	1.37	1.40
30	17	301	CLA	C3B-C2B	-2.03	1.37	1.40
36	m	102	LMG	O2-C2	-2.03	1.38	1.43
39	H	102	DGD	O2D-C2D	-2.03	1.38	1.43
42	20	213	A86	C14-C15	2.03	1.56	1.52
42	21	314	A86	C14-C15	2.03	1.56	1.52
30	18	303	CLA	MG-ND	-2.03	2.01	2.05
30	16	306	CLA	CMD-C2D	-2.03	1.46	1.50
30	13	302	CLA	MG-ND	-2.03	2.01	2.05
30	12	305	CLA	MG-ND	-2.03	2.01	2.05
36	w	101	LMG	C4-C5	2.03	1.57	1.53
32	Z	101	BCR	C33-C5	-2.03	1.47	1.50
30	15	306	CLA	CMD-C2D	-2.03	1.46	1.50
36	w	101	LMG	O4-C4	-2.03	1.38	1.43
30	20	206	CLA	C4B-CHC	-2.03	1.35	1.41
30	11	306	CLA	C3B-CAB	-2.03	1.43	1.47
30	16	302	CLA	MG-ND	-2.03	2.01	2.05
32	H	101	BCR	C38-C26	-2.02	1.47	1.50
32	h	101	BCR	C38-C26	-2.02	1.47	1.50
30	21	309	CLA	CMC-C2C	-2.02	1.46	1.50
30	18	303	CLA	C3B-C2B	-2.02	1.37	1.40
30	19	304	CLA	C3B-C2B	-2.02	1.37	1.40
30	19	307	CLA	C4B-CHC	-2.02	1.35	1.41
30	11	302	CLA	C3B-CAB	-2.02	1.43	1.47
30	D	402	CLA	C4B-CHC	-2.02	1.35	1.41
30	b	622	CLA	C3B-CAB	-2.02	1.43	1.47
40	d	405	PL9	C41-C39	-2.02	1.47	1.51
30	C	519	CLA	C4B-CHC	-2.02	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	12	310	CLA	C3B-CAB	-2.02	1.43	1.47
30	21	306	CLA	CMC-C2C	-2.02	1.46	1.50
40	D	407	PL9	C16-C14	-2.02	1.47	1.51
35	A	408	LHG	C8-C7	-2.02	1.44	1.50
30	13	309	CLA	C4B-CHC	-2.02	1.35	1.41
30	19	302	CLA	C4B-CHC	-2.02	1.35	1.41
42	11	312	A86	C33-C34	2.02	1.55	1.51
30	20	209	CLA	CMC-C2C	-2.02	1.46	1.50
30	C	504	CLA	C4B-CHC	-2.02	1.35	1.41
30	b	601	CLA	C4B-CHC	-2.02	1.35	1.41
42	15	312	A86	C33-C34	2.02	1.55	1.51
30	16	307	CLA	C3B-C2B	-2.01	1.37	1.40
30	12	309	CLA	MG-ND	-2.01	2.01	2.05
30	19	303	CLA	C3B-CAB	-2.01	1.43	1.47
30	17	301	CLA	C4B-CHC	-2.01	1.35	1.41
30	c	513	CLA	C3B-CAB	-2.01	1.43	1.47
30	19	303	CLA	MG-ND	-2.01	2.01	2.05
30	d	407	CLA	C4B-CHC	-2.01	1.35	1.41
30	17	310	CLA	C3B-C2B	-2.01	1.37	1.40
30	12	306	CLA	C3B-CAB	-2.01	1.43	1.47
35	a	407	LHG	C8-C7	-2.01	1.44	1.50
30	17	304	CLA	CAC-C3C	-2.01	1.46	1.51
30	14	308	CLA	C3B-CAB	-2.01	1.43	1.47
30	18	307	CLA	CMC-C2C	-2.01	1.46	1.50
42	17	313	A86	C33-C34	2.01	1.55	1.51
30	c	514	CLA	C4B-CHC	-2.01	1.35	1.41
30	21	303	CLA	C3B-C2B	-2.01	1.37	1.40
36	Q	301	LMG	O2-C2	-2.01	1.38	1.43
30	11	301	CLA	MG-ND	-2.01	2.01	2.05
30	15	301	CLA	MG-ND	-2.00	2.01	2.05
42	17	313	A86	C35-C34	2.00	1.55	1.51
30	c	504	CLA	C4B-CHC	-2.00	1.35	1.41
30	15	309	CLA	O2A-CGA	2.00	1.37	1.30
31	d	403	PHO	C3B-CAB	-2.00	1.43	1.47
42	13	313	A86	C35-C34	2.00	1.55	1.51
30	18	307	CLA	CMD-C2D	-2.00	1.46	1.50
30	18	310	CLA	C4B-CHC	-2.00	1.35	1.41
30	18	312	CLA	O2A-CGA	2.00	1.37	1.30
30	12	314	CLA	C3B-C2B	-2.00	1.37	1.40
30	16	303	CLA	C4B-CHC	-2.00	1.35	1.41

All (3449) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	17	311	A86	O1-C20-C19	55.34	154.95	113.38
42	17	315	A86	O1-C20-C19	55.32	154.94	113.38
42	18	313	A86	O1-C20-C19	55.08	154.75	113.38
42	20	210	A86	O1-C20-C19	55.05	154.74	113.38
42	11	310	A86	O1-C20-C19	55.03	154.72	113.38
42	13	311	A86	O1-C20-C19	55.00	154.70	113.38
42	15	310	A86	O1-C20-C19	55.00	154.70	113.38
42	12	315	A86	O1-C20-C19	54.99	154.69	113.38
42	14	312	A86	O1-C20-C19	54.99	154.69	113.38
42	11	313	A86	O1-C20-C19	54.26	154.14	113.38
42	12	318	A86	O1-C20-C19	54.24	154.13	113.38
42	14	315	A86	O1-C20-C19	54.24	154.13	113.38
42	17	314	A86	O1-C20-C19	54.24	154.12	113.38
42	18	315	A86	O1-C20-C19	54.23	154.12	113.38
42	15	313	A86	O1-C20-C19	54.21	154.11	113.38
42	13	314	A86	O1-C20-C19	54.17	154.07	113.38
42	20	212	A86	O1-C20-C19	54.09	154.02	113.38
42	19	312	A86	O1-C20-C19	53.41	153.50	113.38
42	16	310	A86	O1-C20-C19	53.36	153.47	113.38
42	17	302	A86	O1-C20-C19	52.82	153.06	113.38
42	17	316	A86	O1-C20-C19	52.61	152.90	113.38
42	11	314	A86	O1-C20-C19	52.58	152.88	113.38
42	14	316	A86	O1-C20-C19	52.54	152.85	113.38
42	14	301	A86	O1-C20-C19	52.52	152.83	113.38
42	15	314	A86	O1-C20-C19	52.51	152.83	113.38
42	12	319	A86	O1-C20-C19	52.47	152.80	113.38
42	16	313	A86	O1-C20-C19	52.46	152.79	113.38
42	17	312	A86	O1-C20-C19	51.99	152.44	113.38
42	14	313	A86	O1-C20-C19	51.99	152.44	113.38
42	12	316	A86	O1-C20-C19	51.96	152.42	113.38
42	13	312	A86	O1-C20-C19	51.94	152.40	113.38
42	18	314	A86	O1-C20-C19	51.89	152.37	113.38
42	16	311	A86	O1-C20-C19	51.89	152.36	113.38
42	11	311	A86	O1-C20-C19	51.86	152.34	113.38
42	15	311	A86	O1-C20-C19	51.86	152.34	113.38
42	20	201	A86	O1-C20-C19	51.61	152.15	113.38
42	21	314	A86	O1-C20-C19	51.51	152.08	113.38
42	20	213	A86	O1-C20-C19	51.49	152.06	113.38
42	19	310	A86	O1-C20-C19	50.72	151.48	113.38
42	11	312	A86	O1-C20-C19	50.68	151.46	113.38
42	15	312	A86	O1-C20-C19	50.62	151.41	113.38
42	17	313	A86	O1-C20-C19	50.60	151.39	113.38
42	16	312	A86	O1-C20-C19	50.57	151.37	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	13	313	A86	O1-C20-C19	50.55	151.36	113.38
42	14	314	A86	O1-C20-C19	50.54	151.35	113.38
42	12	317	A86	O1-C20-C19	50.53	151.34	113.38
42	21	311	A86	O1-C20-C19	49.05	150.23	113.38
42	20	211	A86	O1-C20-C19	49.01	150.20	113.38
42	21	313	A86	O1-C20-C19	48.91	150.12	113.38
42	21	310	A86	O1-C20-C19	48.60	149.89	113.38
42	12	304	A86	O1-C20-C19	48.00	149.44	113.38
42	13	301	A86	O1-C20-C19	47.99	149.43	113.38
42	11	316	A86	O1-C20-C19	47.97	149.42	113.38
42	18	302	A86	O1-C20-C19	47.97	149.41	113.38
42	13	315	A86	O1-C20-C19	47.96	149.41	113.38
42	15	316	A86	O1-C20-C19	47.95	149.40	113.38
42	15	315	A86	O1-C20-C19	47.92	149.38	113.38
42	19	311	A86	O1-C20-C19	46.13	148.03	113.38
42	21	312	A86	O1-C20-C19	45.21	147.35	113.38
42	18	302	A86	C17-C16-C15	11.87	121.27	109.16
42	12	304	A86	C17-C16-C15	11.87	121.27	109.16
42	15	315	A86	C17-C16-C15	11.86	121.26	109.16
42	11	316	A86	C17-C16-C15	11.85	121.25	109.16
42	13	301	A86	C17-C16-C15	11.85	121.25	109.16
42	13	315	A86	C17-C16-C15	11.83	121.23	109.16
42	15	316	A86	C17-C16-C15	11.80	121.20	109.16
42	17	315	A86	C21-C20-C19	-11.53	101.31	114.28
42	20	210	A86	O1-C20-C21	-11.37	101.43	115.06
42	11	313	A86	O1-C20-C21	-11.27	101.56	115.06
42	18	315	A86	O1-C20-C21	-11.26	101.57	115.06
42	17	314	A86	O1-C20-C21	-11.25	101.58	115.06
42	15	313	A86	O1-C20-C21	-11.24	101.59	115.06
42	12	318	A86	O1-C20-C21	-11.23	101.60	115.06
42	13	314	A86	O1-C20-C21	-11.20	101.63	115.06
42	14	315	A86	O1-C20-C21	-11.19	101.64	115.06
42	17	311	A86	O1-C20-C21	-11.19	101.65	115.06
42	17	315	A86	O1-C20-C21	-11.02	101.85	115.06
42	20	212	A86	O1-C20-C21	-10.96	101.92	115.06
42	11	310	A86	O1-C20-C21	-10.91	101.98	115.06
42	18	313	A86	O1-C20-C21	-10.91	101.99	115.06
42	17	316	A86	C21-C20-C19	-10.91	102.01	114.28
42	14	312	A86	O1-C20-C21	-10.90	101.99	115.06
42	12	315	A86	O1-C20-C21	-10.90	102.00	115.06
42	14	316	A86	C21-C20-C19	-10.88	102.04	114.28
42	13	311	A86	O1-C20-C21	-10.87	102.03	115.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	11	314	A86	C21-C20-C19	-10.87	102.06	114.28
42	16	313	A86	C21-C20-C19	-10.86	102.06	114.28
42	15	310	A86	O1-C20-C21	-10.86	102.05	115.06
42	17	302	A86	C21-C20-C19	-10.86	102.07	114.28
42	12	319	A86	C21-C20-C19	-10.84	102.09	114.28
42	14	301	A86	C21-C20-C19	-10.83	102.10	114.28
42	16	310	A86	O1-C20-C21	-10.82	102.10	115.06
42	15	314	A86	C21-C20-C19	-10.81	102.12	114.28
42	19	310	A86	C21-C20-C19	-10.73	102.21	114.28
42	15	310	A86	C21-C20-C19	-10.62	102.33	114.28
42	17	311	A86	C21-C20-C19	-10.62	102.34	114.28
42	18	313	A86	C21-C20-C19	-10.61	102.35	114.28
42	13	311	A86	C21-C20-C19	-10.60	102.36	114.28
42	12	315	A86	C21-C20-C19	-10.59	102.37	114.28
42	11	310	A86	C21-C20-C19	-10.58	102.38	114.28
42	14	312	A86	C21-C20-C19	-10.58	102.38	114.28
42	20	212	A86	C36-C31-C32	-10.57	109.21	119.70
42	11	312	A86	C21-C20-C19	-10.55	102.41	114.28
42	15	312	A86	C21-C20-C19	-10.54	102.43	114.28
42	17	313	A86	C21-C20-C19	-10.53	102.43	114.28
42	13	313	A86	C21-C20-C19	-10.53	102.43	114.28
42	16	312	A86	C21-C20-C19	-10.51	102.45	114.28
42	14	314	A86	C21-C20-C19	-10.50	102.46	114.28
42	12	317	A86	C21-C20-C19	-10.49	102.48	114.28
42	19	312	A86	O1-C20-C21	-10.37	102.64	115.06
42	19	312	A86	C21-C20-C19	-10.28	102.72	114.28
42	12	304	A86	C21-C20-C19	-10.14	102.87	114.28
42	15	315	A86	C21-C20-C19	-10.14	102.87	114.28
42	13	315	A86	C21-C20-C19	-10.14	102.87	114.28
42	20	210	A86	C21-C20-C19	-10.13	102.88	114.28
42	13	312	A86	O1-C20-C21	-10.13	102.92	115.06
42	12	316	A86	O1-C20-C21	-10.12	102.93	115.06
42	14	313	A86	O1-C20-C21	-10.12	102.93	115.06
42	18	314	A86	O1-C20-C21	-10.12	102.93	115.06
42	13	301	A86	C21-C20-C19	-10.11	102.91	114.28
42	11	316	A86	C21-C20-C19	-10.11	102.91	114.28
42	17	312	A86	O1-C20-C21	-10.10	102.95	115.06
42	16	311	A86	O1-C20-C21	-10.09	102.96	115.06
42	18	302	A86	C21-C20-C19	-10.09	102.93	114.28
42	15	316	A86	C21-C20-C19	-10.08	102.94	114.28
42	20	212	A86	C21-C20-C19	-10.06	102.96	114.28
42	11	311	A86	O1-C20-C21	-10.05	103.01	115.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	15	311	A86	O1-C20-C21	-10.05	103.01	115.06
42	21	314	A86	O1-C20-C21	-9.99	103.08	115.06
30	B	612	CLA	C4A-NA-C1A	9.98	111.19	106.71
42	20	213	A86	O1-C20-C21	-9.96	103.12	115.06
42	14	315	A86	C21-C20-C19	-9.91	103.13	114.28
42	19	311	A86	C36-C31-C32	-9.91	109.86	119.70
30	b	612	CLA	C4A-NA-C1A	9.90	111.16	106.71
42	17	312	A86	C21-C20-C19	-9.88	103.16	114.28
42	12	318	A86	C21-C20-C19	-9.88	103.17	114.28
42	13	314	A86	C21-C20-C19	-9.86	103.19	114.28
42	14	313	A86	C21-C20-C19	-9.86	103.19	114.28
42	11	311	A86	C21-C20-C19	-9.84	103.20	114.28
42	15	311	A86	C21-C20-C19	-9.84	103.20	114.28
42	15	313	A86	C21-C20-C19	-9.84	103.21	114.28
42	18	315	A86	C21-C20-C19	-9.84	103.22	114.28
42	17	314	A86	C21-C20-C19	-9.83	103.22	114.28
42	11	313	A86	C21-C20-C19	-9.83	103.22	114.28
42	12	316	A86	C21-C20-C19	-9.83	103.22	114.28
42	16	310	A86	C21-C20-C19	-9.82	103.23	114.28
42	13	312	A86	C21-C20-C19	-9.81	103.25	114.28
42	16	311	A86	C21-C20-C19	-9.81	103.25	114.28
42	18	314	A86	C21-C20-C19	-9.79	103.26	114.28
42	20	201	A86	C21-C20-C19	-9.77	103.29	114.28
42	17	302	A86	O1-C20-C21	-9.72	103.41	115.06
42	20	213	A86	C21-C20-C19	-9.62	103.45	114.28
42	21	314	A86	C21-C20-C19	-9.58	103.50	114.28
42	21	310	A86	C21-C20-C19	-9.50	103.60	114.28
42	17	315	A86	C36-C31-C32	-9.44	110.33	119.70
42	20	201	A86	O1-C20-C21	-9.41	103.78	115.06
42	11	314	A86	O1-C20-C21	-9.40	103.79	115.06
42	15	314	A86	O1-C20-C21	-9.40	103.80	115.06
42	14	301	A86	O1-C20-C21	-9.38	103.82	115.06
42	14	316	A86	O1-C20-C21	-9.36	103.84	115.06
42	12	319	A86	O1-C20-C21	-9.34	103.87	115.06
42	17	316	A86	O1-C20-C21	-9.34	103.87	115.06
42	16	313	A86	O1-C20-C21	-9.32	103.89	115.06
42	19	312	A86	C36-C31-C32	-9.30	110.47	119.70
42	21	311	A86	O1-C20-C21	-9.27	103.95	115.06
42	20	211	A86	O1-C20-C21	-9.24	103.99	115.06
42	21	313	A86	C21-C20-C19	-9.22	103.91	114.28
42	17	302	A86	C36-C31-C32	-9.20	110.56	119.70
42	21	311	A86	C21-C20-C19	-9.15	103.98	114.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	20	211	A86	C21-C20-C19	-9.15	103.99	114.28
42	19	310	A86	O1-C20-C21	-9.14	104.10	115.06
42	21	314	A86	C36-C31-C32	-9.13	110.64	119.70
42	20	213	A86	C36-C31-C32	-9.13	110.64	119.70
30	11	301	CLA	C4A-NA-C1A	9.12	110.80	106.71
30	13	302	CLA	C4A-NA-C1A	9.12	110.80	106.71
42	12	304	A86	C33-C32-C31	9.06	118.02	109.21
30	14	303	CLA	C4A-NA-C1A	9.06	110.78	106.71
42	15	315	A86	C33-C32-C31	9.05	118.00	109.21
42	19	311	A86	C21-C20-C19	-9.03	104.12	114.28
42	21	313	A86	O1-C20-C21	-9.03	104.24	115.06
30	16	302	CLA	C4A-NA-C1A	9.02	110.76	106.71
42	13	315	A86	C33-C32-C31	9.02	117.98	109.21
42	15	316	A86	C33-C32-C31	9.00	117.96	109.21
42	13	301	A86	C33-C32-C31	8.97	117.93	109.21
42	18	302	A86	C33-C32-C31	8.97	117.93	109.21
42	11	316	A86	C33-C32-C31	8.95	117.91	109.21
30	12	305	CLA	C4A-NA-C1A	8.91	110.71	106.71
30	c	510	CLA	C4A-NA-C1A	8.89	110.70	106.71
42	11	312	A86	O1-C20-C21	-8.87	104.43	115.06
42	16	312	A86	O1-C20-C21	-8.86	104.44	115.06
42	15	312	A86	O1-C20-C21	-8.84	104.47	115.06
42	12	317	A86	O1-C20-C21	-8.83	104.47	115.06
42	14	314	A86	O1-C20-C21	-8.83	104.47	115.06
30	C	510	CLA	C4A-NA-C1A	8.83	110.68	106.71
42	17	313	A86	O1-C20-C21	-8.83	104.47	115.06
42	13	313	A86	O1-C20-C21	-8.82	104.49	115.06
42	21	310	A86	O1-C20-C21	-8.73	104.60	115.06
42	17	313	A86	C33-C32-C31	8.59	117.56	109.21
42	13	313	A86	C33-C32-C31	8.58	117.55	109.21
42	14	314	A86	C33-C32-C31	8.55	117.52	109.21
30	C	520	CLA	C4A-NA-C1A	8.53	110.54	106.71
42	21	312	A86	C17-C16-C15	8.52	117.86	109.16
42	15	312	A86	C33-C32-C31	8.51	117.48	109.21
42	16	312	A86	C33-C32-C31	8.50	117.48	109.21
42	12	317	A86	C33-C32-C31	8.47	117.45	109.21
42	11	312	A86	C33-C32-C31	8.46	117.44	109.21
30	17	303	CLA	C4A-NA-C1A	8.45	110.51	106.71
42	20	201	A86	C36-C31-C32	-8.39	111.37	119.70
42	15	315	A86	C4-C5-C6	-8.38	115.35	127.31
42	13	315	A86	C4-C5-C6	-8.38	115.35	127.31
42	12	304	A86	C4-C5-C6	-8.36	115.38	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	13	301	A86	C4-C5-C6	-8.35	115.39	127.31
30	c	505	CLA	C4A-NA-C1A	8.34	110.46	106.71
42	15	316	A86	C4-C5-C6	-8.33	115.42	127.31
42	11	316	A86	C4-C5-C6	-8.33	115.42	127.31
42	14	314	A86	C17-C16-C15	8.32	117.65	109.16
42	18	302	A86	C4-C5-C6	-8.31	115.45	127.31
42	11	312	A86	C17-C16-C15	8.30	117.63	109.16
42	15	312	A86	C17-C16-C15	8.29	117.62	109.16
42	17	313	A86	C17-C16-C15	8.29	117.62	109.16
30	15	302	CLA	C4A-NA-C1A	8.27	110.42	106.71
42	17	302	A86	C4-C5-C6	-8.27	115.51	127.31
30	13	307	CLA	C4A-NA-C1A	8.24	110.41	106.71
42	12	317	A86	C17-C16-C15	8.24	117.56	109.16
42	13	313	A86	C17-C16-C15	8.23	117.55	109.16
42	16	312	A86	C17-C16-C15	8.22	117.55	109.16
30	D	406	CLA	C4A-NA-C1A	8.21	110.40	106.71
30	C	505	CLA	C4A-NA-C1A	8.20	110.39	106.71
30	b	609	CLA	C4A-NA-C1A	8.19	110.39	106.71
30	11	306	CLA	C4A-NA-C1A	8.19	110.39	106.71
30	A	402	CLA	C4A-NA-C1A	8.15	110.37	106.71
30	d	407	CLA	C4A-NA-C1A	8.14	110.36	106.71
30	15	301	CLA	C4A-NA-C1A	8.12	110.36	106.71
30	19	303	CLA	C4A-NA-C1A	8.12	110.36	106.71
30	12	310	CLA	C4A-NA-C1A	8.11	110.35	106.71
42	21	313	A86	C36-C31-C32	-8.07	111.69	119.70
30	B	609	CLA	C4A-NA-C1A	8.07	110.33	106.71
30	14	308	CLA	C4A-NA-C1A	8.06	110.33	106.71
30	C	502	CLA	C4A-NA-C1A	8.02	110.31	106.71
30	a	402	CLA	C4A-NA-C1A	8.01	110.31	106.71
30	16	306	CLA	C4A-NA-C1A	7.97	110.29	106.71
42	20	211	A86	C36-C31-C32	-7.97	111.78	119.70
42	21	312	A86	C21-C20-C19	-7.97	105.31	114.28
42	21	312	A86	O1-C20-C21	-7.97	105.51	115.06
42	21	311	A86	C36-C31-C32	-7.95	111.81	119.70
30	c	502	CLA	C4A-NA-C1A	7.94	110.27	106.71
42	11	310	A86	C33-C32-C31	7.92	116.91	109.21
30	15	307	CLA	C4A-NA-C1A	7.91	110.26	106.71
42	13	311	A86	C33-C32-C31	7.90	116.89	109.21
30	18	304	CLA	C4A-NA-C1A	7.88	110.25	106.71
42	15	310	A86	C33-C32-C31	7.85	116.84	109.21
30	C	514	CLA	C4A-NA-C1A	7.84	110.23	106.71
30	c	514	CLA	C4A-NA-C1A	7.82	110.22	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	12	315	A86	C33-C32-C31	7.82	116.81	109.21
42	14	312	A86	C33-C32-C31	7.80	116.80	109.21
30	20	206	CLA	C4A-NA-C1A	7.80	110.21	106.71
30	15	306	CLA	C4A-NA-C1A	7.80	110.21	106.71
42	18	313	A86	C33-C32-C31	7.79	116.78	109.21
30	16	303	CLA	C4A-NA-C1A	7.76	110.20	106.71
30	C	504	CLA	C4A-NA-C1A	7.76	110.19	106.71
30	14	305	CLA	C4A-NA-C1A	7.76	110.19	106.71
42	21	312	A86	C33-C32-C31	7.75	116.75	109.21
30	18	311	CLA	C4A-NA-C1A	7.70	110.17	106.71
30	13	304	CLA	C4A-NA-C1A	7.70	110.17	106.71
30	b	601	CLA	C4A-NA-C1A	7.66	110.15	106.71
30	18	305	CLA	C4A-NA-C1A	7.65	110.15	106.71
42	20	201	A86	C17-C16-C15	7.65	116.97	109.16
30	B	601	CLA	C4A-NA-C1A	7.65	110.15	106.71
30	11	303	CLA	C4A-NA-C1A	7.64	110.14	106.71
30	12	307	CLA	C4A-NA-C1A	7.64	110.14	106.71
30	19	308	CLA	C4A-NA-C1A	7.63	110.14	106.71
30	17	305	CLA	C4A-NA-C1A	7.63	110.14	106.71
30	b	608	CLA	C4A-NA-C1A	7.61	110.13	106.71
30	13	303	CLA	C4A-NA-C1A	7.61	110.13	106.71
42	17	315	A86	C4-C5-C6	-7.55	116.54	127.31
30	15	303	CLA	C4A-NA-C1A	7.54	110.10	106.71
30	b	613	CLA	C4A-NA-C1A	7.52	110.09	106.71
30	17	301	CLA	C4A-NA-C1A	7.52	110.09	106.71
30	20	204	CLA	C4A-NA-C1A	7.49	110.08	106.71
30	c	504	CLA	C4A-NA-C1A	7.49	110.07	106.71
30	14	304	CLA	C4A-NA-C1A	7.48	110.07	106.71
42	19	311	A86	O1-C20-C21	-7.45	106.14	115.06
30	18	308	CLA	C4A-NA-C1A	7.44	110.05	106.71
30	B	608	CLA	C4A-NA-C1A	7.44	110.05	106.71
30	C	512	CLA	C4A-NA-C1A	7.44	110.05	106.71
30	14	306	CLA	C4A-NA-C1A	7.43	110.05	106.71
30	B	603	CLA	C4A-NA-C1A	7.42	110.04	106.71
30	b	603	CLA	C4A-NA-C1A	7.40	110.03	106.71
42	14	301	A86	C17-C16-C15	7.39	116.70	109.16
30	20	203	CLA	C4A-NA-C1A	7.38	110.03	106.71
42	11	314	A86	C17-C16-C15	7.37	116.69	109.16
42	12	319	A86	C17-C16-C15	7.36	116.67	109.16
42	15	316	A86	O1-C20-C21	-7.35	106.25	115.06
42	15	314	A86	C17-C16-C15	7.35	116.66	109.16
42	14	316	A86	C17-C16-C15	7.35	116.66	109.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	611	CLA	C4A-NA-C1A	7.34	110.01	106.71
42	13	301	A86	O1-C20-C21	-7.34	106.26	115.06
42	16	313	A86	C17-C16-C15	7.34	116.65	109.16
30	b	611	CLA	C4A-NA-C1A	7.34	110.01	106.71
30	12	306	CLA	C4A-NA-C1A	7.34	110.00	106.71
42	12	304	A86	O1-C20-C21	-7.33	106.27	115.06
42	18	302	A86	O1-C20-C21	-7.33	106.27	115.06
30	11	302	CLA	C4A-NA-C1A	7.33	110.00	106.71
42	11	316	A86	O1-C20-C21	-7.33	106.28	115.06
42	13	315	A86	O1-C20-C21	-7.31	106.30	115.06
30	18	309	CLA	C4A-NA-C1A	7.30	109.99	106.71
30	c	509	CLA	C4A-NA-C1A	7.30	109.99	106.71
30	z	101	CLA	C4A-NA-C1A	7.30	109.99	106.71
42	17	316	A86	C17-C16-C15	7.30	116.61	109.16
42	16	311	A86	C33-C32-C31	7.29	116.30	109.21
30	12	308	CLA	C4A-NA-C1A	7.29	109.98	106.71
42	15	315	A86	O1-C20-C21	-7.28	106.33	115.06
30	12	309	CLA	C4A-NA-C1A	7.27	109.98	106.71
30	C	508	CLA	C4A-NA-C1A	7.27	109.97	106.71
30	C	509	CLA	C4A-NA-C1A	7.27	109.97	106.71
30	11	305	CLA	C4A-NA-C1A	7.27	109.97	106.71
42	14	313	A86	C33-C32-C31	7.27	116.27	109.21
30	B	607	CLA	C4A-NA-C1A	7.26	109.97	106.71
42	17	312	A86	C33-C32-C31	7.24	116.25	109.21
30	b	614	CLA	C4A-NA-C1A	7.24	109.96	106.71
30	16	304	CLA	C4A-NA-C1A	7.24	109.96	106.71
42	13	312	A86	C33-C32-C31	7.24	116.25	109.21
42	19	312	A86	C4-C5-C6	-7.24	116.98	127.31
42	18	314	A86	C33-C32-C31	7.23	116.24	109.21
42	11	313	A86	C33-C32-C31	7.22	116.23	109.21
42	13	314	A86	C33-C32-C31	7.22	116.23	109.21
42	20	210	A86	C36-C31-C32	-7.22	112.53	119.70
30	c	512	CLA	C4A-NA-C1A	7.22	109.95	106.71
30	20	207	CLA	C4A-NA-C1A	7.22	109.95	106.71
30	c	513	CLA	C4A-NA-C1A	7.21	109.95	106.71
42	11	311	A86	C33-C32-C31	7.20	116.21	109.21
30	12	312	CLA	C4A-NA-C1A	7.20	109.94	106.71
42	18	315	A86	C33-C32-C31	7.20	116.21	109.21
42	15	311	A86	C33-C32-C31	7.20	116.21	109.21
30	B	613	CLA	C4A-NA-C1A	7.20	109.94	106.71
30	D	405	CLA	C4A-NA-C1A	7.20	109.94	106.71
42	12	316	A86	C33-C32-C31	7.19	116.20	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	17	314	A86	C33-C32-C31	7.19	116.19	109.21
30	C	513	CLA	C4A-NA-C1A	7.18	109.94	106.71
42	15	313	A86	C33-C32-C31	7.18	116.19	109.21
30	Z	102	CLA	C4A-NA-C1A	7.18	109.93	106.71
42	12	318	A86	C33-C32-C31	7.17	116.18	109.21
30	d	406	CLA	C4A-NA-C1A	7.17	109.93	106.71
30	13	306	CLA	C4A-NA-C1A	7.17	109.93	106.71
30	11	315	CLA	C4A-NA-C1A	7.16	109.93	106.71
42	14	315	A86	C33-C32-C31	7.16	116.17	109.21
30	16	305	CLA	C4A-NA-C1A	7.16	109.92	106.71
30	13	305	CLA	C4A-NA-C1A	7.15	109.92	106.71
30	21	307	CLA	C4A-NA-C1A	7.14	109.92	106.71
30	B	606	CLA	C4A-NA-C1A	7.14	109.91	106.71
30	17	307	CLA	C4A-NA-C1A	7.14	109.91	106.71
30	A	404	CLA	C4A-NA-C1A	7.13	109.91	106.71
30	15	305	CLA	C4A-NA-C1A	7.13	109.91	106.71
30	21	302	CLA	C4A-NA-C1A	7.12	109.91	106.71
30	C	503	CLA	C4A-NA-C1A	7.12	109.91	106.71
30	D	402	CLA	C4A-NA-C1A	7.12	109.91	106.71
30	a	403	CLA	C4A-NA-C1A	7.11	109.90	106.71
30	18	303	CLA	C4A-NA-C1A	7.11	109.90	106.71
30	11	304	CLA	C4A-NA-C1A	7.10	109.90	106.71
30	d	402	CLA	C4A-NA-C1A	7.08	109.89	106.71
30	B	623	CLA	C4A-NA-C1A	7.08	109.89	106.71
30	b	607	CLA	C4A-NA-C1A	7.08	109.89	106.71
30	C	519	CLA	C4A-NA-C1A	7.08	109.89	106.71
30	21	308	CLA	C4A-NA-C1A	7.07	109.88	106.71
42	16	311	A86	C17-C16-C15	7.07	116.37	109.16
42	12	316	A86	C17-C16-C15	7.07	116.37	109.16
30	12	303	CLA	C4A-NA-C1A	7.07	109.88	106.71
30	17	309	CLA	C4A-NA-C1A	7.07	109.88	106.71
42	15	311	A86	C17-C16-C15	7.07	116.37	109.16
42	17	312	A86	C17-C16-C15	7.06	116.36	109.16
30	17	304	CLA	C4A-NA-C1A	7.06	109.88	106.71
42	11	311	A86	C17-C16-C15	7.05	116.36	109.16
42	13	312	A86	C17-C16-C15	7.05	116.35	109.16
30	14	307	CLA	C4A-NA-C1A	7.04	109.87	106.71
42	14	313	A86	C17-C16-C15	7.04	116.35	109.16
30	19	305	CLA	C4A-NA-C1A	7.03	109.87	106.71
30	14	302	CLA	C4A-NA-C1A	7.01	109.86	106.71
30	B	614	CLA	C4A-NA-C1A	7.00	109.85	106.71
30	15	308	CLA	C4A-NA-C1A	7.00	109.85	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	21	306	CLA	C4A-NA-C1A	7.00	109.85	106.71
42	18	314	A86	C17-C16-C15	6.97	116.28	109.16
30	21	301	CLA	C4A-NA-C1A	6.97	109.84	106.71
30	b	606	CLA	C4A-NA-C1A	6.93	109.82	106.71
30	c	508	CLA	C4A-NA-C1A	6.91	109.81	106.71
30	B	610	CLA	C4A-NA-C1A	6.90	109.81	106.71
30	18	310	CLA	C4A-NA-C1A	6.90	109.81	106.71
30	c	503	CLA	C4A-NA-C1A	6.89	109.81	106.71
30	18	306	CLA	C4A-NA-C1A	6.88	109.80	106.71
30	b	610	CLA	C4A-NA-C1A	6.88	109.80	106.71
42	21	310	A86	C3-C2-C1	-6.87	117.50	127.31
42	21	312	A86	C25-C26-C27	-6.86	117.52	127.31
42	17	311	A86	C33-C32-C31	6.86	115.88	109.21
30	19	302	CLA	C4A-NA-C1A	6.85	109.78	106.71
30	16	301	CLA	C4A-NA-C1A	6.82	109.77	106.71
30	19	304	CLA	C4A-NA-C1A	6.81	109.77	106.71
30	B	605	CLA	C4A-NA-C1A	6.81	109.77	106.71
30	b	605	CLA	C4A-NA-C1A	6.80	109.76	106.71
30	21	303	CLA	C4A-NA-C1A	6.80	109.76	106.71
42	19	310	A86	C36-C31-C32	-6.79	112.95	119.70
30	D	401	CLA	C4A-NA-C1A	6.79	109.76	106.71
30	d	401	CLA	C4A-NA-C1A	6.77	109.75	106.71
30	15	304	CLA	C4A-NA-C1A	6.77	109.75	106.71
30	20	208	CLA	C4A-NA-C1A	6.77	109.75	106.71
30	B	602	CLA	C4A-NA-C1A	6.76	109.75	106.71
30	c	506	CLA	C4A-NA-C1A	6.76	109.75	106.71
42	19	311	A86	C17-C16-C15	6.75	116.05	109.16
30	19	307	CLA	C4A-NA-C1A	6.73	109.73	106.71
30	18	307	CLA	C4A-NA-C1A	6.73	109.73	106.71
30	20	202	CLA	C4A-NA-C1A	6.72	109.73	106.71
30	B	604	CLA	C4A-NA-C1A	6.71	109.72	106.71
30	b	604	CLA	C4A-NA-C1A	6.71	109.72	106.71
30	C	506	CLA	C4A-NA-C1A	6.71	109.72	106.71
30	16	308	CLA	C4A-NA-C1A	6.69	109.71	106.71
42	21	313	A86	C25-C26-C27	-6.67	117.79	127.31
30	21	309	CLA	C4A-NA-C1A	6.67	109.70	106.71
30	b	622	CLA	C4A-NA-C1A	6.64	109.69	106.71
30	b	602	CLA	C4A-NA-C1A	6.62	109.68	106.71
30	18	301	CLA	C4A-NA-C1A	6.59	109.67	106.71
30	21	305	CLA	C4A-NA-C1A	6.56	109.65	106.71
30	12	313	CLA	C4A-NA-C1A	6.55	109.65	106.71
30	13	309	CLA	C4A-NA-C1A	6.55	109.65	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	21	311	A86	C3-C2-C1	-6.53	117.99	127.31
42	19	310	A86	C3-C2-C1	-6.52	118.00	127.31
30	11	307	CLA	C4A-NA-C1A	6.51	109.63	106.71
30	14	310	CLA	C4A-NA-C1A	6.51	109.63	106.71
30	17	306	CLA	C4A-NA-C1A	6.51	109.63	106.71
30	11	308	CLA	C4A-NA-C1A	6.51	109.63	106.71
42	20	211	A86	C3-C2-C1	-6.49	118.04	127.31
30	13	308	CLA	C4A-NA-C1A	6.47	109.61	106.71
30	w	103	CLA	C4A-NA-C1A	6.43	109.60	106.71
30	20	205	CLA	C4A-NA-C1A	6.43	109.60	106.71
42	17	302	A86	C33-C32-C31	6.42	115.45	109.21
42	14	314	A86	C4-C5-C6	-6.41	118.16	127.31
42	13	313	A86	C4-C5-C6	-6.41	118.17	127.31
42	12	317	A86	C4-C5-C6	-6.39	118.19	127.31
30	12	311	CLA	C4A-NA-C1A	6.38	109.58	106.71
42	17	313	A86	C4-C5-C6	-6.37	118.22	127.31
42	20	212	A86	C3-C2-C1	-6.37	118.22	127.31
42	16	312	A86	C4-C5-C6	-6.37	118.22	127.31
30	16	307	CLA	CMB-C2B-C1B	-6.35	118.70	128.46
42	15	312	A86	C4-C5-C6	-6.34	118.26	127.31
30	14	309	CLA	C4A-NA-C1A	6.34	109.56	106.71
30	20	209	CLA	C4A-NA-C1A	6.34	109.56	106.71
42	11	312	A86	C4-C5-C6	-6.32	118.29	127.31
30	W	103	CLA	C4A-NA-C1A	6.32	109.55	106.71
30	19	306	CLA	C4A-NA-C1A	6.31	109.54	106.71
30	19	309	CLA	C4A-NA-C1A	6.26	109.52	106.71
30	14	311	CLA	C4A-NA-C1A	6.22	109.50	106.71
30	21	304	CLA	C4A-NA-C1A	6.21	109.50	106.71
30	12	314	CLA	C4A-NA-C1A	6.21	109.50	106.71
42	16	310	A86	C33-C32-C31	6.19	115.22	109.21
42	20	210	A86	C4-C5-C6	-6.18	118.48	127.31
30	17	306	CLA	CMB-C2B-C1B	-6.17	118.98	128.46
30	16	307	CLA	C4A-NA-C1A	6.16	109.47	106.71
30	11	309	CLA	C4A-NA-C1A	6.12	109.46	106.71
30	17	310	CLA	C4A-NA-C1A	6.11	109.45	106.71
30	13	310	CLA	C4A-NA-C1A	6.09	109.44	106.71
42	16	311	A86	C3-C2-C1	-6.09	118.62	127.31
42	18	314	A86	C3-C2-C1	-6.09	118.62	127.31
42	12	316	A86	C3-C2-C1	-6.08	118.63	127.31
42	21	311	A86	C25-C26-C27	-6.08	118.63	127.31
42	19	311	A86	C4-C5-C6	-6.07	118.65	127.31
42	15	311	A86	C3-C2-C1	-6.07	118.65	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	16	310	A86	C36-C31-C32	-6.07	113.68	119.70
30	W	102	CLA	C4A-NA-C1A	6.05	109.43	106.71
42	11	311	A86	C3-C2-C1	-6.05	118.67	127.31
42	14	313	A86	C3-C2-C1	-6.04	118.70	127.31
30	18	312	CLA	C4A-NA-C1A	6.02	109.41	106.71
42	17	312	A86	C3-C2-C1	-6.02	118.72	127.31
42	20	211	A86	C25-C26-C27	-6.02	118.72	127.31
42	13	312	A86	C3-C2-C1	-6.01	118.73	127.31
30	15	309	CLA	C4A-NA-C1A	6.00	109.40	106.71
30	w	102	CLA	C4A-NA-C1A	5.96	109.39	106.71
30	19	301	CLA	C4A-NA-C1A	5.95	109.38	106.71
42	19	312	A86	C25-C26-C27	-5.91	118.87	127.31
42	21	312	A86	C4-C5-C6	-5.85	118.97	127.31
42	18	315	A86	C17-C16-C15	5.83	115.11	109.16
42	13	314	A86	C17-C16-C15	5.81	115.09	109.16
42	12	318	A86	C17-C16-C15	5.81	115.09	109.16
42	11	313	A86	C17-C16-C15	5.80	115.08	109.16
42	15	313	A86	C17-C16-C15	5.79	115.07	109.16
42	14	315	A86	C17-C16-C15	5.78	115.06	109.16
42	21	312	A86	C36-C31-C32	-5.77	113.97	119.70
42	14	301	A86	C3-C2-C1	-5.74	119.11	127.31
42	17	314	A86	C17-C16-C15	5.74	115.02	109.16
42	17	316	A86	C3-C2-C1	-5.74	119.12	127.31
42	21	310	A86	C17-C16-C15	5.74	115.02	109.16
42	15	314	A86	C3-C2-C1	-5.73	119.13	127.31
30	c	509	CLA	CMB-C2B-C1B	-5.72	119.67	128.46
30	m	101	CLA	C4A-NA-C1A	5.72	109.28	106.71
30	13	305	CLA	CMB-C2B-C1B	-5.72	119.68	128.46
30	c	511	CLA	CMB-C2B-C1B	-5.71	119.68	128.46
42	21	310	A86	C33-C32-C31	5.71	114.76	109.21
30	C	511	CLA	CMB-C2B-C1B	-5.71	119.69	128.46
30	C	509	CLA	CMB-C2B-C1B	-5.71	119.69	128.46
30	M	101	CLA	C4A-NA-C1A	5.71	109.27	106.71
42	11	314	A86	C3-C2-C1	-5.70	119.18	127.31
42	14	316	A86	C3-C2-C1	-5.69	119.19	127.31
42	20	211	A86	C17-C16-C15	5.68	114.96	109.16
42	16	313	A86	C3-C2-C1	-5.68	119.21	127.31
42	12	319	A86	C3-C2-C1	-5.68	119.21	127.31
30	11	304	CLA	CMB-C2B-C1B	-5.68	119.74	128.46
30	18	306	CLA	CMB-C2B-C1B	-5.67	119.75	128.46
30	12	308	CLA	CMB-C2B-C1B	-5.65	119.77	128.46
30	14	306	CLA	CMB-C2B-C1B	-5.65	119.78	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	21	311	A86	C17-C16-C15	5.64	114.91	109.16
42	17	311	A86	C4-C5-C6	-5.62	119.29	127.31
42	19	311	A86	C3-C2-C1	-5.60	119.32	127.31
30	16	305	CLA	CMB-C2B-C1B	-5.58	119.89	128.46
42	21	313	A86	C17-C16-C15	5.55	114.83	109.16
42	20	212	A86	C33-C32-C31	5.48	114.54	109.21
42	17	312	A86	C4-C5-C6	-5.46	119.51	127.31
42	21	313	A86	C3-C2-C1	-5.46	119.52	127.31
42	21	312	A86	C3-C2-C1	-5.45	119.53	127.31
42	13	312	A86	C4-C5-C6	-5.44	119.55	127.31
42	18	314	A86	C4-C5-C6	-5.44	119.55	127.31
42	15	311	A86	C4-C5-C6	-5.43	119.55	127.31
30	18	309	CLA	CMB-C2B-C1B	-5.43	120.11	128.46
42	16	311	A86	C4-C5-C6	-5.43	119.56	127.31
42	12	316	A86	C4-C5-C6	-5.43	119.57	127.31
42	14	313	A86	C4-C5-C6	-5.41	119.58	127.31
42	11	311	A86	C4-C5-C6	-5.41	119.59	127.31
42	15	316	A86	C25-C26-C27	-5.40	119.61	127.31
30	19	302	CLA	CMB-C2B-C1B	-5.39	120.18	128.46
42	13	315	A86	C25-C26-C27	-5.38	119.63	127.31
42	12	304	A86	C25-C26-C27	-5.38	119.63	127.31
30	C	511	CLA	CMB-C2B-C3B	5.38	134.75	124.68
30	17	309	CLA	C2A-C1A-CHA	5.38	133.27	123.86
42	18	302	A86	C25-C26-C27	-5.38	119.64	127.31
30	c	511	CLA	CMB-C2B-C3B	5.37	134.73	124.68
42	15	315	A86	C25-C26-C27	-5.37	119.65	127.31
42	11	316	A86	C25-C26-C27	-5.37	119.65	127.31
42	17	316	A86	C33-C32-C31	5.36	114.42	109.21
42	13	301	A86	C25-C26-C27	-5.36	119.66	127.31
42	14	301	A86	C33-C32-C31	5.32	114.38	109.21
42	16	313	A86	C33-C32-C31	5.32	114.38	109.21
42	14	316	A86	C33-C32-C31	5.31	114.38	109.21
30	B	613	CLA	CMB-C2B-C1B	-5.31	120.30	128.46
42	21	312	A86	C20-C19-C18	-5.31	102.24	112.75
42	12	319	A86	C33-C32-C31	5.31	114.37	109.21
42	11	314	A86	C33-C32-C31	5.30	114.36	109.21
30	b	613	CLA	CMB-C2B-C1B	-5.30	120.32	128.46
42	15	314	A86	C33-C32-C31	5.30	114.36	109.21
42	20	210	A86	O4-C38-C39	5.29	120.81	111.09
30	21	305	CLA	CMB-C2B-C1B	-5.27	120.37	128.46
33	l	101	SQD	O7-S-C6	5.26	113.19	106.94
42	17	314	A86	C3-C2-C1	-5.24	119.83	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	13	314	A86	C3-C2-C1	-5.24	119.83	127.31
30	16	309	CLA	C4A-NA-C1A	5.24	109.06	106.71
42	15	310	A86	C3-C2-C1	-5.24	119.83	127.31
42	13	311	A86	C3-C2-C1	-5.23	119.85	127.31
42	11	310	A86	C3-C2-C1	-5.21	119.87	127.31
42	12	315	A86	C3-C2-C1	-5.21	119.87	127.31
30	c	507	CLA	CAA-C2A-C3A	-5.21	98.52	112.78
30	C	507	CLA	CAA-C2A-C3A	-5.20	98.53	112.78
30	16	307	CLA	CMB-C2B-C3B	5.20	134.41	124.68
30	17	306	CLA	CMB-C2B-C3B	5.20	134.41	124.68
30	c	507	CLA	CMB-C2B-C1B	-5.19	120.49	128.46
42	18	315	A86	C3-C2-C1	-5.19	119.91	127.31
30	C	507	CLA	CMB-C2B-C1B	-5.19	120.49	128.46
42	14	315	A86	C3-C2-C1	-5.19	119.91	127.31
30	16	303	CLA	CMB-C2B-C1B	-5.18	120.50	128.46
42	18	313	A86	C3-C2-C1	-5.18	119.92	127.31
42	12	318	A86	C3-C2-C1	-5.18	119.92	127.31
30	C	514	CLA	CMB-C2B-C1B	-5.17	120.52	128.46
42	14	312	A86	C3-C2-C1	-5.17	119.94	127.31
42	15	313	A86	C3-C2-C1	-5.17	119.94	127.31
33	L	103	SQD	O7-S-C6	5.15	113.06	106.94
30	b	607	CLA	CMB-C2B-C1B	-5.15	120.56	128.46
42	11	313	A86	C3-C2-C1	-5.14	119.97	127.31
30	c	514	CLA	CMB-C2B-C1B	-5.12	120.59	128.46
30	15	304	CLA	CMB-C2B-C1B	-5.11	120.61	128.46
42	14	313	A86	O4-C38-C39	5.10	120.48	111.09
42	20	213	A86	O4-C38-C39	5.10	120.48	111.09
42	18	314	A86	O4-C38-C39	5.10	120.48	111.09
42	21	314	A86	O4-C38-C39	5.10	120.47	111.09
42	16	310	A86	C25-C26-C27	-5.09	120.05	127.31
30	B	607	CLA	CMB-C2B-C1B	-5.09	120.64	128.46
30	b	615	CLA	C4A-NA-C1A	5.09	108.99	106.71
42	12	316	A86	O4-C38-C39	5.09	120.45	111.09
30	C	510	CLA	CMB-C2B-C1B	-5.07	120.67	128.46
30	c	511	CLA	C4A-NA-C1A	5.06	108.98	106.71
42	13	312	A86	O4-C38-C39	5.06	120.40	111.09
42	15	311	A86	O4-C38-C39	5.06	120.40	111.09
42	17	312	A86	O4-C38-C39	5.06	120.39	111.09
42	16	310	A86	C3-C2-C1	-5.05	120.10	127.31
42	11	311	A86	O4-C38-C39	5.05	120.38	111.09
42	16	311	A86	O4-C38-C39	5.04	120.37	111.09
42	20	201	A86	C12-C11-C13	5.04	124.49	116.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	615	CLA	C4A-NA-C1A	5.04	108.97	106.71
42	20	210	A86	C25-C26-C27	-5.04	120.12	127.31
42	19	310	A86	O4-C38-C39	5.03	120.35	111.09
42	20	201	A86	C3-C2-C1	-5.01	120.16	127.31
42	13	301	A86	O4-C38-C39	5.00	120.29	111.09
33	L	103	SQD	O6-C1-C2	5.00	116.11	108.30
42	15	316	A86	O4-C38-C39	4.99	120.28	111.09
30	c	510	CLA	CMB-C2B-C1B	-4.99	120.79	128.46
30	17	308	CLA	C4A-NA-C1A	4.99	108.95	106.71
42	11	316	A86	O4-C38-C39	4.99	120.26	111.09
42	20	201	A86	O4-C38-C39	4.98	120.26	111.09
30	20	208	CLA	CMB-C2B-C1B	-4.98	120.80	128.46
42	13	315	A86	O4-C38-C39	4.98	120.26	111.09
42	18	302	A86	O4-C38-C39	4.98	120.25	111.09
30	17	309	CLA	CAA-C2A-C1A	4.98	128.29	111.97
42	15	310	A86	C17-C16-C15	4.96	114.22	109.16
42	15	315	A86	O4-C38-C39	4.96	120.21	111.09
42	12	304	A86	O4-C38-C39	4.96	120.21	111.09
33	l	101	SQD	O6-C1-C2	4.96	116.04	108.30
42	13	311	A86	C17-C16-C15	4.96	114.22	109.16
30	C	507	CLA	C4A-NA-C1A	4.94	108.93	106.71
42	12	315	A86	C17-C16-C15	4.93	114.19	109.16
42	17	315	A86	O4-C38-C39	4.92	120.14	111.09
42	14	312	A86	C17-C16-C15	4.91	114.17	109.16
42	20	212	A86	O4-C38-C39	4.91	120.12	111.09
42	21	314	A86	C3-C2-C1	-4.90	120.31	127.31
30	c	507	CLA	C4A-NA-C1A	4.90	108.91	106.71
42	11	310	A86	C17-C16-C15	4.88	114.14	109.16
42	20	213	A86	C3-C2-C1	-4.88	120.34	127.31
30	C	511	CLA	C4A-NA-C1A	4.86	108.89	106.71
42	18	313	A86	C17-C16-C15	4.86	114.12	109.16
42	19	310	A86	C17-C16-C15	4.85	114.11	109.16
30	D	405	CLA	CMB-C2B-C1B	-4.85	121.01	128.46
42	12	317	A86	O4-C38-C39	4.84	120.00	111.09
42	11	312	A86	O4-C38-C39	4.84	119.99	111.09
42	17	302	A86	O4-C38-C39	4.84	119.99	111.09
30	12	308	CLA	CMB-C2B-C3B	4.83	133.72	124.68
30	b	613	CLA	CMB-C2B-C3B	4.83	133.71	124.68
42	16	312	A86	O4-C38-C39	4.82	119.96	111.09
30	13	305	CLA	CMB-C2B-C3B	4.82	133.70	124.68
42	15	312	A86	O4-C38-C39	4.82	119.96	111.09
30	11	304	CLA	CMB-C2B-C3B	4.82	133.69	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	14	314	A86	O4-C38-C39	4.82	119.95	111.09
42	16	310	A86	O4-C38-C39	4.81	119.94	111.09
42	17	314	A86	O4-C38-C39	4.81	119.94	111.09
30	B	613	CLA	CMB-C2B-C3B	4.81	133.67	124.68
42	21	313	A86	O4-C38-C39	4.80	119.92	111.09
42	14	315	A86	O4-C38-C39	4.80	119.92	111.09
30	14	306	CLA	CMB-C2B-C3B	4.80	133.65	124.68
42	13	314	A86	O4-C38-C39	4.79	119.91	111.09
42	17	311	A86	O4-C38-C39	4.79	119.90	111.09
42	12	318	A86	O4-C38-C39	4.79	119.90	111.09
42	18	315	A86	O4-C38-C39	4.78	119.89	111.09
42	11	313	A86	O4-C38-C39	4.78	119.89	111.09
30	d	406	CLA	CMB-C2B-C1B	-4.78	121.12	128.46
42	13	313	A86	O4-C38-C39	4.78	119.89	111.09
42	17	313	A86	O4-C38-C39	4.78	119.88	111.09
39	C	516	DGD	O3G-C3G-C2G	-4.77	99.39	110.90
42	15	313	A86	O4-C38-C39	4.76	119.86	111.09
42	11	314	A86	O4-C38-C39	4.76	119.84	111.09
42	17	316	A86	O4-C38-C39	4.75	119.83	111.09
42	12	319	A86	O4-C38-C39	4.75	119.82	111.09
42	14	301	A86	O4-C38-C39	4.75	119.82	111.09
42	14	316	A86	O4-C38-C39	4.74	119.82	111.09
39	c	517	DGD	O3G-C3G-C2G	-4.74	99.46	110.90
42	19	311	A86	O4-C38-C39	4.74	119.81	111.09
30	C	502	CLA	CMB-C2B-C1B	-4.74	121.19	128.46
42	16	313	A86	O4-C38-C39	4.74	119.80	111.09
30	c	502	CLA	CMB-C2B-C1B	-4.72	121.20	128.46
30	a	402	CLA	CMB-C2B-C1B	-4.72	121.20	128.46
42	19	312	A86	O4-C38-C39	4.72	119.77	111.09
42	15	314	A86	O4-C38-C39	4.71	119.76	111.09
30	18	306	CLA	CMB-C2B-C3B	4.71	133.49	124.68
30	20	205	CLA	CMB-C2B-C1B	-4.71	121.22	128.46
30	16	303	CLA	CMB-C2B-C3B	4.71	133.49	124.68
34	a	406	BCT	O2-C-O1	4.71	131.76	119.55
30	15	307	CLA	CMB-C2B-C1B	-4.71	121.23	128.46
30	A	402	CLA	CMB-C2B-C1B	-4.69	121.26	128.46
30	16	302	CLA	CBA-CAA-C2A	4.68	127.69	113.86
34	A	407	BCT	O2-C-O1	4.68	131.70	119.55
30	16	305	CLA	CMB-C2B-C3B	4.68	133.44	124.68
42	16	312	A86	C41-C32-C31	-4.68	106.28	110.47
42	16	310	A86	C17-C16-C15	4.67	113.93	109.16
30	20	209	CLA	CMB-C2B-C1B	-4.66	121.30	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	13	312	A86	C25-C26-C27	-4.66	120.66	127.31
42	17	311	A86	C3-C2-C1	-4.65	120.67	127.31
42	11	311	A86	C25-C26-C27	-4.65	120.67	127.31
42	12	316	A86	C25-C26-C27	-4.63	120.70	127.31
42	15	312	A86	C41-C32-C31	-4.63	106.33	110.47
30	19	308	CLA	CMB-C2B-C1B	-4.63	121.35	128.46
42	14	313	A86	C25-C26-C27	-4.63	120.70	127.31
42	17	312	A86	C25-C26-C27	-4.63	120.71	127.31
42	21	312	A86	O4-C38-C39	4.62	119.60	111.09
42	11	312	A86	C41-C32-C31	-4.61	106.34	110.47
30	B	612	CLA	CMB-C2B-C1B	-4.61	121.38	128.46
42	20	213	A86	C17-C16-C15	4.61	113.86	109.16
42	15	311	A86	C25-C26-C27	-4.61	120.73	127.31
30	b	612	CLA	CMB-C2B-C1B	-4.59	121.40	128.46
42	16	311	A86	C25-C26-C27	-4.59	120.75	127.31
42	18	314	A86	C25-C26-C27	-4.59	120.77	127.31
42	21	314	A86	C17-C16-C15	4.58	113.83	109.16
30	b	603	CLA	O2D-CGD-O1D	-4.58	114.89	123.84
42	21	310	A86	O4-C38-C39	4.57	119.50	111.09
30	c	508	CLA	CMB-C2B-C1B	-4.57	121.45	128.46
42	12	317	A86	C41-C32-C31	-4.56	106.39	110.47
40	d	405	PL9	C7-C3-C4	4.56	120.58	116.88
30	C	514	CLA	CMB-C2B-C3B	4.56	133.20	124.68
42	13	313	A86	C41-C32-C31	-4.55	106.40	110.47
30	c	514	CLA	CMB-C2B-C3B	4.55	133.19	124.68
42	14	314	A86	C41-C32-C31	-4.55	106.40	110.47
42	14	315	A86	C25-C26-C27	-4.55	120.82	127.31
30	19	302	CLA	CMB-C2B-C3B	4.54	133.18	124.68
42	17	313	A86	C41-C32-C31	-4.54	106.41	110.47
42	12	318	A86	C25-C26-C27	-4.54	120.84	127.31
42	18	315	A86	C25-C26-C27	-4.54	120.84	127.31
30	C	508	CLA	CMB-C2B-C1B	-4.53	121.50	128.46
42	15	310	A86	O4-C38-C39	4.53	119.42	111.09
30	B	603	CLA	O2D-CGD-O1D	-4.53	114.98	123.84
30	14	309	CLA	CMB-C2B-C1B	-4.52	121.51	128.46
42	17	314	A86	C25-C26-C27	-4.52	120.86	127.31
42	11	310	A86	O4-C38-C39	4.51	119.39	111.09
42	12	315	A86	O4-C38-C39	4.50	119.37	111.09
42	11	313	A86	C25-C26-C27	-4.50	120.89	127.31
30	13	308	CLA	CMB-C2B-C1B	-4.49	121.56	128.46
30	11	307	CLA	CMB-C2B-C1B	-4.49	121.56	128.46
30	12	311	CLA	CMB-C2B-C1B	-4.49	121.57	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	13	314	A86	C25-C26-C27	-4.48	120.92	127.31
42	20	211	A86	O4-C38-C39	4.47	119.32	111.09
42	14	312	A86	O4-C38-C39	4.47	119.32	111.09
42	15	313	A86	C25-C26-C27	-4.47	120.93	127.31
42	13	311	A86	O4-C38-C39	4.47	119.31	111.09
42	18	313	A86	O4-C38-C39	4.45	119.28	111.09
42	21	311	A86	O4-C38-C39	4.45	119.28	111.09
30	B	611	CLA	CMB-C2B-C1B	-4.44	121.64	128.46
30	20	202	CLA	CMB-C2B-C1B	-4.43	121.65	128.46
42	20	212	A86	C4-C5-C6	-4.43	120.98	127.31
40	D	404	PL9	C7-C3-C4	4.43	120.48	116.88
42	17	315	A86	C33-C32-C31	4.42	113.50	109.21
30	D	401	CLA	CMB-C2B-C1B	-4.41	121.68	128.46
30	15	304	CLA	CMB-C2B-C3B	4.40	132.90	124.68
30	b	611	CLA	CMB-C2B-C1B	-4.39	121.72	128.46
30	17	304	CLA	CMB-C2B-C1B	-4.37	121.75	128.46
30	d	401	CLA	CMB-C2B-C1B	-4.35	121.77	128.46
30	C	520	CLA	CMB-C2B-C1B	-4.33	121.81	128.46
42	15	310	A86	C4-C5-C6	-4.33	121.13	127.31
35	B	622	LHG	O4-P-O5	4.33	133.64	112.24
30	m	101	CLA	CMB-C2B-C1B	-4.33	121.82	128.46
30	M	101	CLA	CMB-C2B-C1B	-4.32	121.82	128.46
30	B	603	CLA	CMB-C2B-C1B	-4.32	121.82	128.46
30	W	103	CLA	CMB-C2B-C1B	-4.32	121.83	128.46
42	13	301	A86	C20-C19-C18	-4.32	104.21	112.75
35	b	621	LHG	O4-P-O5	4.31	133.57	112.24
42	12	304	A86	C20-C19-C18	-4.31	104.23	112.75
42	11	310	A86	C4-C5-C6	-4.31	121.17	127.31
30	b	603	CLA	CMB-C2B-C1B	-4.30	121.85	128.46
42	13	311	A86	C4-C5-C6	-4.30	121.17	127.31
42	13	315	A86	C20-C19-C18	-4.29	104.25	112.75
35	a	407	LHG	O4-P-O5	4.29	133.44	112.24
42	15	316	A86	C20-C19-C18	-4.29	104.27	112.75
42	15	315	A86	C20-C19-C18	-4.29	104.27	112.75
42	18	302	A86	C20-C19-C18	-4.29	104.27	112.75
30	14	307	CLA	CMB-C2B-C1B	-4.28	121.88	128.46
35	A	408	LHG	O4-P-O5	4.28	133.39	112.24
30	w	103	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
42	12	315	A86	C4-C5-C6	-4.27	121.21	127.31
42	18	313	A86	C4-C5-C6	-4.27	121.21	127.31
42	11	316	A86	C20-C19-C18	-4.27	104.30	112.75
30	B	607	CLA	CMB-C2B-C3B	4.27	132.67	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	19	309	CLA	CMB-C2B-C1B	-4.27	121.91	128.46
30	13	306	CLA	CMB-C2B-C1B	-4.27	121.91	128.46
42	14	312	A86	C4-C5-C6	-4.27	121.22	127.31
30	b	612	CLA	CMB-C2B-C3B	4.26	132.66	124.68
30	19	304	CLA	CMB-C2B-C1B	-4.26	121.92	128.46
30	b	607	CLA	CMB-C2B-C3B	4.25	132.64	124.68
42	17	315	A86	C25-C24-C1	-4.25	114.48	126.42
30	18	304	CLA	CMB-C2B-C1B	-4.25	121.94	128.46
42	19	312	A86	C33-C32-C31	4.25	113.34	109.21
42	17	302	A86	C3-C2-C1	-4.24	121.26	127.31
42	17	315	A86	C3-C2-C1	-4.24	121.26	127.31
30	B	612	CLA	CMB-C2B-C3B	4.23	132.60	124.68
30	D	405	CLA	CMB-C2B-C3B	4.22	132.58	124.68
30	b	606	CLA	CMB-C2B-C1B	-4.22	121.98	128.46
30	11	305	CLA	CMB-C2B-C1B	-4.21	121.99	128.46
30	20	205	CLA	CMB-C2B-C3B	4.21	132.55	124.68
30	12	309	CLA	CMB-C2B-C1B	-4.20	122.00	128.46
30	20	208	CLA	CMB-C2B-C3B	4.20	132.54	124.68
30	B	606	CLA	CMB-C2B-C1B	-4.20	122.02	128.46
30	21	304	CLA	CMB-C2B-C1B	-4.18	122.04	128.46
35	d	409	LHG	O4-P-O5	4.18	132.91	112.24
35	L	101	LHG	O4-P-O5	4.17	132.86	112.24
30	d	406	CLA	CMB-C2B-C3B	4.16	132.47	124.68
30	C	502	CLA	CMB-C2B-C3B	4.16	132.47	124.68
30	c	502	CLA	CMB-C2B-C3B	4.14	132.43	124.68
42	17	314	A86	C41-C32-C31	-4.13	106.78	110.47
42	19	310	A86	C4-C5-C6	-4.12	121.42	127.31
42	13	314	A86	C41-C32-C31	-4.12	106.78	110.47
42	18	313	A86	C25-C26-C27	-4.12	121.43	127.31
30	b	604	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
42	20	210	A86	C3-C2-C1	-4.10	121.45	127.31
30	B	604	CLA	CMB-C2B-C1B	-4.09	122.17	128.46
35	l	102	LHG	O4-P-O5	4.09	132.44	112.24
30	c	509	CLA	CMB-C2B-C3B	4.08	132.32	124.68
30	18	309	CLA	CMB-C2B-C3B	4.08	132.31	124.68
42	13	311	A86	C25-C26-C27	-4.08	121.49	127.31
30	C	509	CLA	CMB-C2B-C3B	4.08	132.31	124.68
42	11	313	A86	C41-C32-C31	-4.08	106.83	110.47
42	14	312	A86	C25-C26-C27	-4.07	121.50	127.31
30	C	520	CLA	O2D-CGD-O1D	-4.07	115.88	123.84
33	l	101	SQD	O9-S-C6	4.07	111.77	106.94
35	L	102	LHG	O4-P-O5	4.06	132.33	112.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	19	308	CLA	CMB-C2B-C3B	4.06	132.27	124.68
42	15	310	A86	C25-C26-C27	-4.05	121.52	127.31
42	11	310	A86	C25-C26-C27	-4.05	121.53	127.31
42	12	318	A86	C41-C32-C31	-4.05	106.85	110.47
42	15	313	A86	C41-C32-C31	-4.04	106.86	110.47
42	18	315	A86	C41-C32-C31	-4.03	106.86	110.47
42	12	315	A86	C25-C26-C27	-4.03	121.56	127.31
33	L	103	SQD	O9-S-C6	4.03	111.73	106.94
42	15	314	A86	C25-C24-C1	-4.02	115.12	126.42
30	C	510	CLA	CMB-C2B-C3B	4.02	132.20	124.68
32	c	521	BCR	C24-C23-C22	-4.02	120.17	126.23
32	C	518	BCR	C24-C23-C22	-4.02	120.17	126.23
42	14	315	A86	C41-C32-C31	-4.01	106.89	110.47
42	14	316	A86	C25-C24-C1	-4.01	115.16	126.42
30	c	512	CLA	CMB-C2B-C1B	-4.01	122.31	128.46
30	17	305	CLA	CMB-C2B-C1B	-4.01	122.31	128.46
42	12	319	A86	C25-C24-C1	-4.01	115.17	126.42
42	14	301	A86	C25-C24-C1	-4.00	115.17	126.42
30	15	303	CLA	CMB-C2B-C1B	-4.00	122.31	128.46
42	17	316	A86	C25-C24-C1	-4.00	115.17	126.42
33	B	621	SQD	O7-S-C6	4.00	111.69	106.94
42	11	314	A86	C25-C24-C1	-3.99	115.19	126.42
33	b	620	SQD	O7-S-C6	3.99	111.68	106.94
30	b	602	CLA	CMB-C2B-C1B	-3.99	122.33	128.46
30	14	304	CLA	CMB-C2B-C1B	-3.99	122.33	128.46
42	16	313	A86	C25-C24-C1	-3.98	115.24	126.42
37	B	625	LMU	O1'-C1'-C2'	3.98	114.51	108.30
30	11	301	CLA	CMB-C2B-C1B	-3.97	122.36	128.46
30	b	622	CLA	CBA-CAA-C2A	3.97	125.58	113.86
30	13	303	CLA	CMB-C2B-C1B	-3.97	122.36	128.46
30	17	308	CLA	CMB-C2B-C1B	-3.96	122.37	128.46
30	11	308	CLA	C2A-C1A-CHA	3.96	130.79	123.86
30	c	510	CLA	CMB-C2B-C3B	3.96	132.08	124.68
32	B	618	BCR	C2-C1-C6	3.95	116.57	110.48
30	12	306	CLA	CMB-C2B-C1B	-3.95	122.40	128.46
30	13	309	CLA	C2A-C1A-CHA	3.94	130.75	123.86
30	21	305	CLA	CMB-C2B-C3B	3.94	132.05	124.68
37	B	625	LMU	C1B-O1B-C4'	-3.94	108.21	117.96
30	11	302	CLA	CMB-C2B-C1B	-3.94	122.41	128.46
30	13	302	CLA	CMB-C2B-C1B	-3.94	122.41	128.46
30	12	313	CLA	C2A-C1A-CHA	3.94	130.74	123.86
30	w	102	CLA	CMB-C2B-C1B	-3.93	122.42	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	13	311	A86	C41-C32-C31	-3.93	106.95	110.47
42	21	313	A86	C3-C4-C5	-3.93	115.42	123.47
30	C	512	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
30	B	602	CLA	CMB-C2B-C1B	-3.93	122.43	128.46
32	b	617	BCR	C2-C1-C6	3.93	116.53	110.48
30	14	310	CLA	C2A-C1A-CHA	3.93	130.72	123.86
30	13	304	CLA	CMB-C2B-C1B	-3.92	122.43	128.46
30	B	623	CLA	CBA-CAA-C2A	3.91	125.40	113.86
30	12	305	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
30	21	302	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
30	W	102	CLA	CMB-C2B-C1B	-3.90	122.46	128.46
30	12	307	CLA	CMB-C2B-C1B	-3.90	122.46	128.46
30	17	303	CLA	CHB-C4A-NA	3.90	129.91	124.51
32	B	616	BCR	C15-C16-C17	-3.90	115.48	123.47
30	14	305	CLA	CMB-C2B-C1B	-3.90	122.47	128.46
30	a	402	CLA	CMB-C2B-C3B	3.89	131.96	124.68
30	16	303	CLA	C2A-C1A-CHA	3.89	130.66	123.86
30	11	303	CLA	CMB-C2B-C1B	-3.89	122.49	128.46
30	14	303	CLA	CMB-C2B-C1B	-3.88	122.50	128.46
42	21	312	A86	O1-C15-C14	-3.88	105.42	113.21
32	m	103	BCR	C15-C16-C17	-3.88	115.53	123.47
30	15	307	CLA	CMB-C2B-C3B	3.88	131.93	124.68
42	17	315	A86	C25-C26-C27	-3.87	121.78	127.31
30	b	614	CLA	CMB-C2B-C1B	-3.87	122.52	128.46
42	11	310	A86	C41-C32-C31	-3.86	107.01	110.47
30	A	402	CLA	CMB-C2B-C3B	3.86	131.90	124.68
30	B	614	CLA	CMB-C2B-C1B	-3.86	122.54	128.46
37	12	302	LMU	O1'-C1'-C2'	3.86	114.32	108.30
33	A	406	SQD	O47-C7-C8	3.85	119.80	111.50
42	12	315	A86	C41-C32-C31	-3.85	107.03	110.47
33	a	405	SQD	O47-C7-C8	3.84	119.79	111.50
33	l	101	SQD	C4-C3-C2	3.84	117.53	110.82
42	15	310	A86	C41-C32-C31	-3.84	107.03	110.47
31	D	403	PHO	CMB-C2B-C3B	3.84	131.87	124.68
39	C	517	DGD	O6D-C1D-O3G	-3.84	100.87	109.97
30	17	304	CLA	CMB-C2B-C3B	3.84	131.86	124.68
30	12	310	CLA	CMB-C2B-C1B	-3.84	122.56	128.46
39	c	518	DGD	O6D-C1D-O3G	-3.84	100.88	109.97
39	h	102	DGD	C1D-C2D-C3D	-3.84	102.01	110.00
42	14	312	A86	C41-C32-C31	-3.83	107.04	110.47
30	c	508	CLA	CMB-C2B-C3B	3.83	131.85	124.68
30	20	202	CLA	CMB-C2B-C3B	3.83	131.85	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	14	308	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
30	13	307	CLA	CMB-C2B-C1B	-3.82	122.59	128.46
42	21	312	A86	C12-C11-C13	3.82	122.44	116.02
30	16	304	CLA	CMB-C2B-C1B	-3.82	122.60	128.46
31	d	404	PHO	CMB-C2B-C3B	3.82	131.82	124.68
30	C	508	CLA	CMB-C2B-C3B	3.81	131.81	124.68
30	16	302	CLA	C1B-CHB-C4A	-3.80	122.58	130.12
42	20	210	A86	C9-C8-C6	-3.80	115.74	126.42
30	15	305	CLA	CMB-C2B-C1B	-3.80	122.62	128.46
33	L	103	SQD	C4-C3-C2	3.80	117.45	110.82
42	18	313	A86	C41-C32-C31	-3.79	107.08	110.47
30	15	308	CLA	C2A-C1A-CHA	3.79	130.48	123.86
37	12	302	LMU	C1B-O1B-C4'	-3.79	108.60	117.96
30	11	306	CLA	CMB-C2B-C1B	-3.79	122.65	128.46
30	C	520	CLA	CHB-C4A-NA	3.78	129.74	124.51
39	H	102	DGD	C1D-C2D-C3D	-3.78	102.12	110.00
42	13	311	A86	C12-C11-C13	3.78	122.38	116.02
30	17	308	CLA	C1B-CHB-C4A	-3.78	122.63	130.12
30	19	307	CLA	CMB-C2B-C1B	-3.78	122.66	128.46
30	20	207	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
42	20	210	A86	C33-C32-C31	3.77	112.88	109.21
42	12	315	A86	C12-C11-C13	3.77	122.35	116.02
42	20	213	A86	C33-C32-C31	3.77	112.87	109.21
30	17	303	CLA	C1B-CHB-C4A	-3.76	122.67	130.12
33	b	620	SQD	O9-S-O7	-3.76	100.93	113.95
30	16	302	CLA	CHB-C4A-NA	3.76	129.71	124.51
33	B	621	SQD	O9-S-O7	-3.76	100.95	113.95
42	20	201	A86	C25-C26-C27	-3.75	121.95	127.31
42	15	310	A86	C12-C11-C13	3.75	122.33	116.02
42	21	314	A86	C33-C32-C31	3.75	112.86	109.21
30	19	305	CLA	CMB-C2B-C1B	-3.75	122.70	128.46
42	17	313	A86	C25-C26-C27	-3.74	121.97	127.31
30	b	622	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
30	16	307	CLA	C1B-CHB-C4A	-3.74	122.71	130.12
30	B	615	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
42	11	314	A86	C4-C5-C6	-3.74	121.98	127.31
42	11	310	A86	C12-C11-C13	3.74	122.30	116.02
42	16	311	A86	C41-C32-C31	-3.73	107.13	110.47
42	14	312	A86	C12-C11-C13	3.73	122.29	116.02
42	18	313	A86	C12-C11-C13	3.73	122.29	116.02
42	15	314	A86	C4-C5-C6	-3.73	121.99	127.31
30	14	309	CLA	CMB-C2B-C3B	3.73	131.65	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	12	317	A86	C25-C26-C27	-3.73	121.99	127.31
33	B	621	SQD	O47-C7-C8	3.72	119.53	111.50
33	b	620	SQD	O47-C7-C8	3.72	119.53	111.50
30	11	307	CLA	CMB-C2B-C3B	3.72	131.64	124.68
30	21	304	CLA	CMB-C2B-C3B	3.72	131.64	124.68
30	16	309	CLA	CAA-C2A-C3A	-3.72	102.59	112.78
30	C	513	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
42	16	313	A86	C4-C5-C6	-3.71	122.01	127.31
30	c	513	CLA	CMB-C2B-C1B	-3.71	122.76	128.46
42	12	316	A86	C41-C32-C31	-3.71	107.15	110.47
42	15	312	A86	C25-C26-C27	-3.71	122.02	127.31
42	14	301	A86	C4-C5-C6	-3.71	122.02	127.31
30	d	407	CLA	CMB-C2B-C1B	-3.71	122.77	128.46
42	20	213	A86	C25-C24-C1	-3.70	116.01	126.42
30	D	406	CLA	CMB-C2B-C1B	-3.70	122.77	128.46
30	19	301	CLA	CMB-C2B-C1B	-3.70	122.77	128.46
42	14	313	A86	C41-C32-C31	-3.70	107.16	110.47
42	14	316	A86	C4-C5-C6	-3.70	122.03	127.31
30	15	301	CLA	CMB-C2B-C1B	-3.70	122.78	128.46
30	16	302	CLA	CAA-C2A-C1A	3.70	124.10	111.97
30	C	519	CLA	CMB-C2B-C1B	-3.70	122.78	128.46
30	z	101	CLA	CMB-C2B-C1B	-3.70	122.78	128.46
30	15	302	CLA	CMB-C2B-C1B	-3.70	122.78	128.46
30	19	309	CLA	CMB-C2B-C3B	3.70	131.59	124.68
42	13	313	A86	C25-C26-C27	-3.70	122.03	127.31
42	17	316	A86	C4-C5-C6	-3.70	122.04	127.31
42	11	312	A86	C25-C26-C27	-3.69	122.04	127.31
42	21	314	A86	C25-C24-C1	-3.69	116.04	126.42
30	b	622	CLA	CAA-C2A-C3A	-3.69	102.67	112.78
30	20	209	CLA	CMB-C2B-C3B	3.69	131.58	124.68
30	C	520	CLA	CMB-C2B-C3B	3.69	131.58	124.68
30	13	308	CLA	CMB-C2B-C3B	3.69	131.58	124.68
33	L	103	SQD	O47-C7-C8	3.69	119.45	111.50
42	14	314	A86	C25-C26-C27	-3.69	122.05	127.31
42	15	311	A86	C41-C32-C31	-3.69	107.17	110.47
33	l	101	SQD	O47-C7-C8	3.68	119.44	111.50
33	L	103	SQD	O5-C5-C4	3.68	116.38	109.69
30	a	403	CLA	O2D-CGD-O1D	-3.68	116.64	123.84
30	A	404	CLA	O2D-CGD-O1D	-3.68	116.65	123.84
33	a	405	SQD	O9-S-C6	3.67	111.31	106.94
42	12	319	A86	C4-C5-C6	-3.67	122.07	127.31
30	12	311	CLA	CMB-C2B-C3B	3.67	131.55	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	17	312	A86	C41-C32-C31	-3.67	107.19	110.47
33	A	406	SQD	O9-S-C6	3.67	111.30	106.94
30	b	615	CLA	CMB-C2B-C1B	-3.66	122.83	128.46
42	11	311	A86	C41-C32-C31	-3.66	107.19	110.47
30	B	623	CLA	CMB-C2B-C1B	-3.66	122.84	128.46
30	d	401	CLA	CMB-C2B-C3B	3.66	131.53	124.68
42	13	312	A86	C41-C32-C31	-3.65	107.20	110.47
42	18	314	A86	C41-C32-C31	-3.65	107.20	110.47
42	16	312	A86	C25-C26-C27	-3.65	122.10	127.31
39	J	101	DGD	O3G-C3G-C2G	-3.65	102.10	110.90
30	21	307	CLA	CMB-C2B-C1B	-3.65	122.86	128.46
30	17	310	CLA	CAA-C2A-C3A	-3.64	102.80	112.78
33	a	405	SQD	O9-S-O7	-3.64	101.35	113.95
30	B	623	CLA	CAA-C2A-C3A	-3.64	102.81	112.78
30	15	302	CLA	CHB-C4A-NA	3.64	129.54	124.51
30	D	401	CLA	CMB-C2B-C3B	3.64	131.48	124.68
33	A	406	SQD	O5-C5-C4	3.63	116.30	109.69
30	b	610	CLA	CMB-C2B-C1B	-3.63	122.88	128.46
42	16	313	A86	C12-C11-C13	3.63	122.12	116.02
33	l	101	SQD	O5-C5-C4	3.63	116.28	109.69
42	17	302	A86	C17-C16-C15	3.62	112.86	109.16
33	A	406	SQD	O9-S-O7	-3.62	101.42	113.95
39	j	101	DGD	O3G-C3G-C2G	-3.62	102.17	110.90
30	19	303	CLA	CMB-C2B-C1B	-3.61	122.91	128.46
42	17	311	A86	C41-C32-C31	-3.61	107.24	110.47
30	20	204	CLA	CMB-C2B-C1B	-3.61	122.92	128.46
42	15	314	A86	C12-C11-C13	3.60	122.08	116.02
42	11	314	A86	C12-C11-C13	3.60	122.07	116.02
33	a	405	SQD	O5-C5-C4	3.60	116.23	109.69
30	16	308	CLA	C1B-CHB-C4A	-3.60	122.99	130.12
33	A	406	SQD	O6-C1-C2	3.60	113.92	108.30
33	a	405	SQD	O6-C1-C2	3.60	113.92	108.30
42	19	310	A86	C25-C24-C1	-3.59	116.32	126.42
30	18	312	CLA	CMB-C2B-C1B	-3.59	122.95	128.46
39	J	101	DGD	O6D-C1D-O3G	-3.59	101.47	109.97
30	14	307	CLA	CMB-C2B-C3B	3.59	131.39	124.68
42	17	316	A86	C12-C11-C13	3.59	122.05	116.02
30	19	304	CLA	CMB-C2B-C3B	3.59	131.39	124.68
30	14	304	CLA	CMB-C2B-C3B	3.58	131.38	124.68
30	15	309	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
42	19	310	A86	C25-C26-C27	-3.58	122.20	127.31
30	12	314	CLA	CAA-C2A-C3A	-3.58	102.97	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	c	505	CLA	CHB-C4A-NA	3.58	129.46	124.51
39	j	101	DGD	O6D-C1D-O3G	-3.58	101.50	109.97
42	14	316	A86	C12-C11-C13	3.58	122.03	116.02
30	B	610	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
30	13	310	CLA	CAA-C2A-C3A	-3.58	102.98	112.78
42	14	301	A86	C12-C11-C13	3.57	122.02	116.02
30	13	306	CLA	CMB-C2B-C3B	3.57	131.36	124.68
42	17	311	A86	C25-C26-C27	-3.57	122.22	127.31
42	14	301	A86	C36-C31-C32	-3.57	116.16	119.70
30	11	305	CLA	CMB-C2B-C3B	3.56	131.35	124.68
42	12	319	A86	C12-C11-C13	3.56	122.01	116.02
42	21	310	A86	C25-C26-C27	-3.56	122.23	127.31
42	17	316	A86	C36-C31-C32	-3.56	116.16	119.70
30	14	311	CLA	CAA-C2A-C3A	-3.56	103.03	112.78
30	11	309	CLA	CAA-C2A-C3A	-3.56	103.03	112.78
30	13	310	CLA	CMB-C2B-C1B	-3.56	123.00	128.46
42	15	314	A86	C36-C31-C32	-3.56	116.17	119.70
42	19	312	A86	C17-C16-C15	3.55	112.79	109.16
30	13	302	CLA	CHB-C4A-NA	3.55	129.43	124.51
30	12	305	CLA	CHB-C4A-NA	3.55	129.42	124.51
30	13	303	CLA	CMB-C2B-C3B	3.55	131.32	124.68
30	Z	102	CLA	CMB-C2B-C1B	-3.55	123.01	128.46
30	c	505	CLA	CMB-C2B-C1B	-3.55	123.01	128.46
30	12	309	CLA	CMB-C2B-C3B	3.55	131.32	124.68
42	12	319	A86	C36-C31-C32	-3.55	116.17	119.70
30	17	309	CLA	CBA-CAA-C2A	3.55	124.33	113.86
42	21	312	A86	C4-C3-C2	-3.54	116.21	123.47
42	14	314	A86	C36-C31-C32	-3.54	116.19	119.70
30	11	309	CLA	CMB-C2B-C1B	-3.54	123.03	128.46
30	C	505	CLA	CMB-C2B-C1B	-3.54	123.03	128.46
30	d	402	CLA	CMB-C2B-C1B	-3.54	123.03	128.46
30	12	306	CLA	CMB-C2B-C3B	3.53	131.29	124.68
42	12	317	A86	C3-C2-C1	-3.53	122.27	127.31
30	17	310	CLA	CMB-C2B-C1B	-3.53	123.03	128.46
42	13	313	A86	C36-C31-C32	-3.53	116.19	119.70
36	d	410	LMG	C1-C2-C3	-3.53	102.64	110.00
30	11	302	CLA	CMB-C2B-C3B	3.53	131.28	124.68
30	14	303	CLA	CHB-C4A-NA	3.53	129.40	124.51
30	20	203	CLA	CMB-C2B-C1B	-3.53	123.04	128.46
42	16	313	A86	C36-C31-C32	-3.53	116.19	119.70
42	17	313	A86	C36-C31-C32	-3.53	116.20	119.70
33	L	103	SQD	O9-S-O7	-3.53	101.74	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	D	408	LMG	C1-C2-C3	-3.53	102.65	110.00
30	C	505	CLA	CHB-C4A-NA	3.53	129.39	124.51
30	W	103	CLA	CMB-C2B-C3B	3.52	131.27	124.68
42	15	316	A86	C4-C3-C2	-3.52	116.26	123.47
42	14	316	A86	C36-C31-C32	-3.52	116.20	119.70
30	d	407	CLA	O2D-CGD-O1D	-3.52	116.95	123.84
32	Z	101	BCR	C15-C16-C17	-3.52	116.27	123.47
30	20	205	CLA	C1B-CHB-C4A	-3.52	123.15	130.12
30	D	402	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
30	14	311	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
32	c	515	BCR	C15-C16-C17	-3.52	116.27	123.47
30	18	307	CLA	CMB-C2B-C1B	-3.52	123.06	128.46
33	b	620	SQD	O8-S-C6	3.51	111.34	105.74
30	11	301	CLA	CHB-C4A-NA	3.51	129.37	124.51
30	21	301	CLA	CMB-C2B-C1B	-3.51	123.06	128.46
30	b	602	CLA	CMB-C2B-C3B	3.51	131.25	124.68
32	Z	101	BCR	C11-C10-C9	-3.51	122.30	127.31
42	19	312	A86	C3-C2-C1	-3.51	122.30	127.31
30	m	101	CLA	CMB-C2B-C3B	3.51	131.24	124.68
42	11	316	A86	C4-C3-C2	-3.51	116.29	123.47
42	21	313	A86	C12-C11-C13	3.50	121.91	116.02
39	c	518	DGD	O3G-C3G-C2G	-3.50	102.45	110.90
42	15	312	A86	C3-C2-C1	-3.50	122.31	127.31
33	l	101	SQD	O9-S-O7	-3.50	101.84	113.95
32	C	518	BCR	C15-C16-C17	-3.50	116.31	123.47
30	14	302	CLA	CMB-C2B-C1B	-3.50	123.09	128.46
30	D	406	CLA	O2D-CGD-O1D	-3.49	117.01	123.84
30	M	101	CLA	CMB-C2B-C3B	3.49	131.21	124.68
42	13	315	A86	C4-C3-C2	-3.49	116.33	123.47
42	15	312	A86	C36-C31-C32	-3.49	116.24	119.70
42	16	312	A86	C36-C31-C32	-3.49	116.24	119.70
42	21	311	A86	C12-C11-C13	3.49	121.88	116.02
42	11	314	A86	C36-C31-C32	-3.48	116.24	119.70
42	20	211	A86	C12-C11-C13	3.48	121.87	116.02
42	15	310	A86	C34-O4-C38	-3.48	111.41	117.90
42	16	312	A86	C3-C2-C1	-3.48	122.34	127.31
30	20	206	CLA	CMB-C2B-C1B	-3.48	123.11	128.46
30	B	602	CLA	CMB-C2B-C3B	3.48	131.19	124.68
42	11	310	A86	C34-O4-C38	-3.48	111.41	117.90
30	c	512	CLA	CMB-C2B-C3B	3.48	131.19	124.68
42	15	315	A86	C4-C3-C2	-3.48	116.35	123.47
42	11	312	A86	C3-C2-C1	-3.48	122.35	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	14	314	A86	C3-C2-C1	-3.48	122.35	127.31
32	a	404	BCR	C15-C16-C17	-3.48	116.35	123.47
42	12	304	A86	C4-C3-C2	-3.48	116.35	123.47
33	B	621	SQD	O8-S-C6	3.48	111.28	105.74
30	12	314	CLA	CMB-C2B-C1B	-3.47	123.12	128.46
30	17	304	CLA	C2A-C1A-CHA	3.47	129.93	123.86
30	C	507	CLA	CMB-C2B-C3B	3.47	131.18	124.68
42	18	302	A86	C4-C3-C2	-3.47	116.36	123.47
32	A	405	BCR	C15-C16-C17	-3.47	116.36	123.47
30	w	103	CLA	CMB-C2B-C3B	3.47	131.17	124.68
42	13	313	A86	C3-C2-C1	-3.47	122.36	127.31
30	21	308	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
42	17	313	A86	C3-C2-C1	-3.46	122.36	127.31
42	14	313	A86	C36-C31-C32	-3.46	116.26	119.70
42	18	313	A86	C34-O4-C38	-3.46	111.45	117.90
30	17	309	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
42	11	316	A86	C3-C2-C1	-3.46	122.38	127.31
42	13	301	A86	C4-C3-C2	-3.46	116.39	123.47
30	b	604	CLA	CMB-C2B-C3B	3.46	131.14	124.68
42	12	315	A86	C34-O4-C38	-3.46	111.46	117.90
42	11	312	A86	C36-C31-C32	-3.46	116.27	119.70
42	17	302	A86	C25-C26-C27	-3.45	122.38	127.31
42	21	310	A86	C20-C19-C18	-3.45	105.92	112.75
30	18	303	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
32	c	521	BCR	C15-C16-C17	-3.45	116.41	123.47
42	19	311	A86	C12-C11-C13	3.45	121.82	116.02
42	13	311	A86	C34-O4-C38	-3.45	111.47	117.90
30	18	311	CLA	C2A-C1A-CHA	3.45	129.89	123.86
30	15	306	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
32	c	515	BCR	C11-C10-C9	-3.45	122.39	127.31
39	C	517	DGD	O3G-C3G-C2G	-3.45	102.58	110.90
42	17	316	A86	C20-C19-C18	-3.44	105.94	112.75
30	B	604	CLA	CMB-C2B-C3B	3.44	131.12	124.68
42	14	312	A86	C34-O4-C38	-3.44	111.48	117.90
42	16	311	A86	C36-C31-C32	-3.44	116.28	119.70
42	18	302	A86	C3-C2-C1	-3.44	122.40	127.31
30	11	315	CLA	CMB-C2B-C1B	-3.44	123.18	128.46
31	D	403	PHO	O1D-CGD-CBD	3.44	130.47	124.74
42	16	313	A86	C20-C19-C18	-3.44	105.95	112.75
42	12	317	A86	C36-C31-C32	-3.43	116.29	119.70
42	13	301	A86	C3-C2-C1	-3.43	122.41	127.31
42	15	316	A86	C3-C2-C1	-3.43	122.41	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	c	507	CLA	CMB-C2B-C3B	3.43	131.10	124.68
30	21	309	CLA	CMB-C2B-C1B	-3.43	123.19	128.46
42	12	319	A86	C20-C19-C18	-3.43	105.96	112.75
42	11	314	A86	C20-C19-C18	-3.43	105.97	112.75
30	18	304	CLA	CMB-C2B-C3B	3.43	131.09	124.68
39	c	517	DGD	O5D-C6D-C5D	-3.43	102.71	109.05
42	21	312	A86	C41-C32-C31	-3.42	107.41	110.47
30	C	512	CLA	CMB-C2B-C3B	3.42	131.08	124.68
42	15	314	A86	C20-C19-C18	-3.42	105.98	112.75
30	c	506	CLA	CMB-C2B-C1B	-3.42	123.20	128.46
30	12	312	CLA	CMB-C2B-C1B	-3.42	123.20	128.46
42	12	304	A86	C3-C2-C1	-3.42	122.43	127.31
42	13	315	A86	C3-C2-C1	-3.42	122.43	127.31
30	16	306	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
42	11	316	A86	C40-C32-C31	-3.42	107.41	110.47
42	12	316	A86	C36-C31-C32	-3.41	116.31	119.70
42	17	312	A86	C36-C31-C32	-3.41	116.31	119.70
30	15	303	CLA	CMB-C2B-C3B	3.41	131.06	124.68
42	18	302	A86	C40-C32-C31	-3.41	107.42	110.47
42	14	316	A86	C20-C19-C18	-3.41	106.00	112.75
30	B	601	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
30	12	303	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
30	19	309	CLA	C1B-CHB-C4A	-3.41	123.36	130.12
42	15	316	A86	C40-C32-C31	-3.41	107.42	110.47
42	15	315	A86	C3-C2-C1	-3.41	122.44	127.31
42	17	302	A86	C9-C8-C6	-3.41	116.84	126.42
30	21	306	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
42	19	312	A86	C9-C10-C11	-3.41	116.59	126.61
42	21	310	A86	C4-C5-C6	-3.41	122.45	127.31
42	14	314	A86	C26-C25-C24	-3.41	112.58	123.22
42	14	301	A86	C20-C19-C18	-3.41	106.01	112.75
30	C	514	CLA	CHB-C4A-NA	3.41	129.22	124.51
30	11	303	CLA	CMB-C2B-C3B	3.41	131.05	124.68
42	16	312	A86	C26-C25-C24	-3.41	112.59	123.22
30	13	302	CLA	C1-C2-C3	-3.40	120.16	126.04
42	11	312	A86	C26-C25-C24	-3.40	112.60	123.22
32	B	618	BCR	C24-C23-C22	-3.40	121.09	126.23
42	13	313	A86	C26-C25-C24	-3.40	112.60	123.22
30	21	303	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
30	13	304	CLA	CMB-C2B-C3B	3.40	131.04	124.68
42	13	312	A86	C36-C31-C32	-3.40	116.32	119.70
42	17	313	A86	C26-C25-C24	-3.40	112.61	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	b	610	CLA	O2D-CGD-O1D	-3.40	117.20	123.84
30	c	514	CLA	CHB-C4A-NA	3.40	129.21	124.51
30	14	305	CLA	CMB-C2B-C3B	3.40	131.03	124.68
30	12	305	CLA	C1-C2-C3	-3.40	120.17	126.04
30	b	601	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
30	16	307	CLA	CHB-C4A-NA	3.39	129.21	124.51
32	b	617	BCR	C24-C23-C22	-3.39	121.11	126.23
30	17	307	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
30	12	307	CLA	CMB-C2B-C3B	3.39	131.03	124.68
31	d	404	PHO	O1D-CGD-CBD	3.39	130.39	124.74
30	18	308	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
30	15	307	CLA	CHB-C4A-NA	3.39	129.20	124.51
30	15	306	CLA	O2D-CGD-O1D	-3.39	117.21	123.84
42	15	311	A86	C36-C31-C32	-3.39	116.34	119.70
30	17	305	CLA	CMB-C2B-C3B	3.39	131.01	124.68
42	12	317	A86	C26-C25-C24	-3.38	112.66	123.22
30	C	506	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
42	15	312	A86	C26-C25-C24	-3.38	112.67	123.22
30	16	302	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
39	C	516	DGD	O5D-C6D-C5D	-3.37	102.81	109.05
30	13	303	CLA	CHB-C4A-NA	3.37	129.17	124.51
42	13	315	A86	C40-C32-C31	-3.37	107.46	110.47
30	B	610	CLA	O2D-CGD-O1D	-3.37	117.25	123.84
42	12	304	A86	C40-C32-C31	-3.37	107.46	110.47
30	14	303	CLA	C1-C2-C3	-3.36	120.22	126.04
42	18	314	A86	C36-C31-C32	-3.36	116.36	119.70
30	18	301	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
30	b	614	CLA	O2D-CGD-O1D	-3.36	117.27	123.84
30	B	614	CLA	O2D-CGD-O1D	-3.36	117.27	123.84
30	15	301	CLA	C1B-CHB-C4A	-3.36	123.46	130.12
30	15	308	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
30	B	612	CLA	CHB-C4A-NA	3.36	129.16	124.51
40	d	405	PL9	C7-C3-C2	-3.36	118.88	123.30
30	16	308	CLA	C2A-C1A-CHA	3.36	129.73	123.86
39	H	102	DGD	O3G-C3G-C2G	-3.35	102.81	110.90
42	11	311	A86	C36-C31-C32	-3.35	116.37	119.70
30	b	612	CLA	CHB-C4A-NA	3.35	129.15	124.51
42	21	310	A86	C34-O4-C38	-3.35	111.65	117.90
32	a	404	BCR	C15-C14-C13	-3.35	122.53	127.31
42	13	314	A86	C3-C4-C5	-3.35	116.61	123.47
30	11	301	CLA	C1-C2-C3	-3.35	120.25	126.04
30	b	605	CLA	CMB-C2B-C1B	-3.35	123.32	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	h	102	DGD	O3G-C3G-C2G	-3.34	102.83	110.90
30	18	303	CLA	CHB-C4A-NA	3.34	129.13	124.51
30	B	605	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
30	14	304	CLA	CHB-C4A-NA	3.34	129.13	124.51
42	18	315	A86	C3-C4-C5	-3.34	116.63	123.47
30	19	306	CLA	CMB-C2B-C1B	-3.34	123.34	128.46
42	12	318	A86	C3-C4-C5	-3.34	116.64	123.47
30	14	309	CLA	CHB-C4A-NA	3.33	129.12	124.51
30	19	307	CLA	CMB-C2B-C3B	3.33	130.91	124.68
30	b	603	CLA	CMB-C2B-C3B	3.33	130.91	124.68
30	B	601	CLA	CHB-C4A-NA	3.33	129.12	124.51
30	21	304	CLA	C1B-CHB-C4A	-3.33	123.52	130.12
42	17	314	A86	C3-C4-C5	-3.33	116.65	123.47
30	16	309	CLA	CMB-C2B-C1B	-3.33	123.35	128.46
42	15	315	A86	C40-C32-C31	-3.33	107.49	110.47
30	11	307	CLA	CHB-C4A-NA	3.33	129.11	124.51
30	b	601	CLA	CHB-C4A-NA	3.33	129.11	124.51
30	13	308	CLA	CHB-C4A-NA	3.33	129.11	124.51
30	11	301	CLA	CMB-C2B-C3B	3.32	130.90	124.68
30	B	603	CLA	CMB-C2B-C3B	3.32	130.89	124.68
30	12	305	CLA	C1B-CHB-C4A	-3.32	123.54	130.12
42	14	315	A86	C3-C4-C5	-3.32	116.67	123.47
42	19	311	A86	C28-C27-C26	-3.32	118.28	122.92
30	12	306	CLA	CHB-C4A-NA	3.31	129.09	124.51
30	12	305	CLA	CMB-C2B-C3B	3.31	130.88	124.68
42	13	301	A86	C40-C32-C31	-3.31	107.51	110.47
32	A	405	BCR	C15-C14-C13	-3.31	122.59	127.31
30	11	301	CLA	C1B-CHB-C4A	-3.31	123.57	130.12
30	13	302	CLA	C1B-CHB-C4A	-3.31	123.57	130.12
42	15	313	A86	C3-C4-C5	-3.31	116.70	123.47
30	14	303	CLA	C1B-CHB-C4A	-3.31	123.57	130.12
42	11	313	A86	C3-C4-C5	-3.31	116.70	123.47
30	21	302	CLA	CMB-C2B-C3B	3.30	130.86	124.68
30	15	301	CLA	CHB-C4A-NA	3.30	129.08	124.51
30	18	305	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
30	C	512	CLA	CHB-C4A-NA	3.29	129.06	124.51
30	12	313	CLA	CHB-C4A-NA	3.29	129.06	124.51
30	13	302	CLA	CMB-C2B-C3B	3.28	130.82	124.68
30	11	302	CLA	CHB-C4A-NA	3.28	129.05	124.51
30	16	306	CLA	CHB-C4A-NA	3.28	129.05	124.51
30	c	512	CLA	CHB-C4A-NA	3.28	129.05	124.51
30	B	614	CLA	CMB-C2B-C3B	3.28	130.81	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	l	101	SQD	C1-O5-C5	3.28	120.12	113.69
30	15	302	CLA	CMB-C2B-C3B	3.28	130.81	124.68
42	11	313	A86	C12-C11-C13	3.27	121.52	116.02
42	12	318	A86	C12-C11-C13	3.27	121.52	116.02
42	15	313	A86	C12-C11-C13	3.27	121.52	116.02
40	D	404	PL9	C7-C3-C2	-3.27	119.00	123.30
42	17	314	A86	C12-C11-C13	3.27	121.52	116.02
30	A	404	CLA	C1B-CHB-C4A	-3.27	123.64	130.12
40	D	407	PL9	C7-C8-C9	-3.27	121.35	126.79
30	17	303	CLA	CMB-C2B-C1B	-3.27	123.44	128.46
30	18	303	CLA	C1B-CHB-C4A	-3.27	123.65	130.12
30	16	301	CLA	CMB-C2B-C1B	-3.26	123.45	128.46
30	a	403	CLA	CHB-C4A-NA	3.26	129.03	124.51
42	20	201	A86	C10-C9-C8	-3.26	113.03	123.22
30	A	404	CLA	CHB-C4A-NA	3.26	129.03	124.51
33	L	103	SQD	C1-O5-C5	3.26	120.09	113.69
42	14	315	A86	C12-C11-C13	3.26	121.50	116.02
30	a	403	CLA	C1B-CHB-C4A	-3.26	123.66	130.12
30	b	614	CLA	CMB-C2B-C3B	3.26	130.77	124.68
30	M	101	CLA	O2D-CGD-O1D	-3.26	117.47	123.84
42	18	315	A86	C12-C11-C13	3.26	121.49	116.02
30	15	305	CLA	CMB-C2B-C3B	3.25	130.77	124.68
30	15	306	CLA	C1B-CHB-C4A	-3.25	123.67	130.12
40	d	408	PL9	C7-C8-C9	-3.25	121.38	126.79
30	b	604	CLA	O2D-CGD-O1D	-3.25	117.48	123.84
42	14	315	A86	C10-C9-C8	-3.25	113.08	123.22
42	13	314	A86	C12-C11-C13	3.25	121.48	116.02
30	12	311	CLA	CHB-C4A-NA	3.25	129.00	124.51
30	14	303	CLA	CMB-C2B-C3B	3.25	130.75	124.68
30	B	608	CLA	C1B-CHB-C4A	-3.24	123.69	130.12
30	C	506	CLA	O2D-CGD-O1D	-3.24	117.50	123.84
33	a	405	SQD	O8-S-C6	3.24	110.90	105.74
32	A	405	BCR	C24-C23-C22	-3.24	121.34	126.23
30	16	308	CLA	CMB-C2B-C1B	-3.24	123.49	128.46
30	C	506	CLA	C1B-CHB-C4A	-3.24	123.71	130.12
42	15	316	A86	C36-C31-C32	-3.24	116.48	119.70
30	c	506	CLA	C1B-CHB-C4A	-3.24	123.71	130.12
30	d	401	CLA	C1B-CHB-C4A	-3.23	123.71	130.12
30	C	508	CLA	CHB-C4A-NA	3.23	128.98	124.51
30	15	306	CLA	CHB-C4A-NA	3.23	128.98	124.51
30	C	505	CLA	C3C-C4C-NC	-3.23	106.95	110.57
30	B	608	CLA	O2D-CGD-O1D	-3.23	117.52	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	A	406	SQD	O8-S-C6	3.23	110.89	105.74
42	18	315	A86	C10-C9-C8	-3.23	113.14	123.22
30	17	308	CLA	CHB-C4A-NA	3.23	128.97	124.51
30	11	308	CLA	CHB-C4A-NA	3.23	128.97	124.51
37	B	625	LMU	O5B-C5B-C4B	3.22	115.55	109.69
42	15	313	A86	C10-C9-C8	-3.22	113.16	123.22
30	b	608	CLA	C1B-CHB-C4A	-3.22	123.73	130.12
30	m	101	CLA	O2D-CGD-O1D	-3.22	117.54	123.84
30	13	309	CLA	CMB-C2B-C1B	-3.22	123.51	128.46
42	11	313	A86	C10-C9-C8	-3.22	113.17	123.22
30	13	309	CLA	CHB-C4A-NA	3.22	128.96	124.51
30	14	310	CLA	CMB-C2B-C1B	-3.22	123.52	128.46
42	20	211	A86	C4-C3-C2	-3.22	116.88	123.47
42	12	304	A86	C36-C31-C32	-3.22	116.50	119.70
42	12	318	A86	C10-C9-C8	-3.22	113.18	123.22
30	D	401	CLA	C1B-CHB-C4A	-3.22	123.75	130.12
30	14	310	CLA	CHB-C4A-NA	3.22	128.96	124.51
42	17	312	A86	C12-C11-C13	3.21	121.42	116.02
42	13	312	A86	C12-C11-C13	3.21	121.42	116.02
30	20	206	CLA	CHB-C4A-NA	3.21	128.96	124.51
42	15	311	A86	C12-C11-C13	3.21	121.42	116.02
30	c	506	CLA	O2D-CGD-O1D	-3.21	117.56	123.84
30	B	609	CLA	CHB-C4A-NA	3.21	128.95	124.51
30	B	604	CLA	O2D-CGD-O1D	-3.21	117.56	123.84
30	b	608	CLA	O2D-CGD-O1D	-3.21	117.56	123.84
41	F	102	HEM	CMC-C2C-C3C	3.21	130.68	124.68
30	b	609	CLA	CHB-C4A-NA	3.21	128.95	124.51
42	15	315	A86	C36-C31-C32	-3.21	116.51	119.70
30	B	605	CLA	CHB-C4A-NA	3.21	128.94	124.51
30	11	308	CLA	CMB-C2B-C1B	-3.20	123.54	128.46
30	12	313	CLA	CMB-C2B-C1B	-3.20	123.54	128.46
42	17	314	A86	C10-C9-C8	-3.20	113.22	123.22
30	12	308	CLA	C1B-CHB-C4A	-3.20	123.78	130.12
30	19	304	CLA	CHB-C4A-NA	3.20	128.94	124.51
30	B	608	CLA	CHB-C4A-NA	3.20	128.94	124.51
42	11	311	A86	C12-C11-C13	3.20	121.40	116.02
42	20	210	A86	C12-C11-C13	3.20	121.40	116.02
30	13	304	CLA	CAA-C2A-C3A	-3.20	104.02	112.78
30	b	608	CLA	CHB-C4A-NA	3.20	128.94	124.51
42	13	314	A86	C10-C9-C8	-3.20	113.23	123.22
30	b	605	CLA	CHB-C4A-NA	3.20	128.93	124.51
39	C	516	DGD	O6D-C1D-O3G	-3.20	102.40	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	602	CLA	C1B-CHB-C4A	-3.20	123.78	130.12
42	13	301	A86	C36-C31-C32	-3.20	116.52	119.70
30	15	302	CLA	O2D-CGD-O1D	-3.20	117.59	123.84
42	13	315	A86	C36-C31-C32	-3.20	116.52	119.70
30	20	207	CLA	CMB-C2B-C3B	3.19	130.65	124.68
32	a	404	BCR	C24-C23-C22	-3.19	121.41	126.23
42	21	311	A86	C4-C3-C2	-3.19	116.94	123.47
41	f	102	HEM	CMC-C2C-C3C	3.19	130.64	124.68
42	12	316	A86	C12-C11-C13	3.19	121.38	116.02
37	12	302	LMU	C3'-C4'-C5'	3.19	118.23	110.93
30	b	602	CLA	C1B-CHB-C4A	-3.19	123.81	130.12
42	20	210	A86	C41-C32-C31	-3.19	107.62	110.47
42	20	212	A86	C17-C16-C15	3.18	112.41	109.16
42	14	313	A86	C12-C11-C13	3.18	121.37	116.02
30	11	304	CLA	C1B-CHB-C4A	-3.18	123.82	130.12
42	11	316	A86	C36-C31-C32	-3.18	116.54	119.70
30	14	306	CLA	C1B-CHB-C4A	-3.18	123.82	130.12
42	20	211	A86	C4-C5-C6	-3.18	122.77	127.31
30	17	310	CLA	C1B-CHB-C4A	-3.18	123.82	130.12
30	12	307	CLA	CAA-C2A-C3A	-3.18	104.08	112.78
30	c	508	CLA	CHB-C4A-NA	3.18	128.90	124.51
30	11	303	CLA	CAA-C2A-C3A	-3.17	104.08	112.78
42	21	311	A86	C4-C5-C6	-3.17	122.78	127.31
37	12	302	LMU	O5B-C5B-C4B	3.17	115.46	109.69
42	18	314	A86	C12-C11-C13	3.17	121.35	116.02
30	13	305	CLA	C1B-CHB-C4A	-3.17	123.83	130.12
30	16	303	CLA	O2D-CGD-O1D	-3.17	117.64	123.84
30	c	505	CLA	C3C-C4C-NC	-3.17	107.02	110.57
42	21	313	A86	C7-C6-C8	3.17	123.07	118.08
30	c	513	CLA	CMB-C2B-C3B	3.17	130.60	124.68
30	14	305	CLA	CAA-C2A-C3A	-3.17	104.11	112.78
42	16	310	A86	C41-C32-C31	-3.17	107.64	110.47
39	c	517	DGD	O6D-C1D-O3G	-3.16	102.49	109.97
30	14	306	CLA	CHB-C4A-NA	3.16	128.88	124.51
30	20	204	CLA	CMB-C2B-C3B	3.16	130.58	124.68
30	18	311	CLA	CMB-C2B-C1B	-3.15	123.62	128.46
30	12	308	CLA	CHB-C4A-NA	3.15	128.87	124.51
42	14	301	A86	C10-C9-C8	-3.14	113.41	123.22
37	B	625	LMU	C3'-C4'-C5'	3.14	118.13	110.93
30	17	309	CLA	CHB-C4A-NA	3.14	128.86	124.51
42	14	316	A86	C10-C9-C8	-3.14	113.41	123.22
42	16	313	A86	C10-C9-C8	-3.14	113.42	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	12	319	A86	C10-C9-C8	-3.14	113.42	123.22
42	15	314	A86	C10-C9-C8	-3.14	113.42	123.22
30	w	103	CLA	O2D-CGD-O1D	-3.13	117.71	123.84
30	W	102	CLA	C1B-CHB-C4A	-3.13	123.91	130.12
30	W	103	CLA	O2D-CGD-O1D	-3.13	117.71	123.84
42	21	310	A86	C25-C24-C1	-3.13	117.62	126.42
42	16	311	A86	C12-C11-C13	3.13	121.28	116.02
30	D	405	CLA	CAA-C2A-C3A	-3.13	104.21	112.78
42	21	314	A86	C3-C4-C5	-3.13	117.07	123.47
30	d	406	CLA	CAA-C2A-C3A	-3.12	104.22	112.78
30	C	513	CLA	CMB-C2B-C3B	3.12	130.52	124.68
42	17	316	A86	C10-C9-C8	-3.12	113.48	123.22
30	19	301	CLA	CMB-C2B-C3B	3.12	130.51	124.68
42	18	302	A86	C36-C31-C32	-3.12	116.60	119.70
42	11	314	A86	C10-C9-C8	-3.12	113.49	123.22
30	18	304	CLA	CHB-C4A-NA	3.11	128.82	124.51
42	20	213	A86	C3-C4-C5	-3.11	117.09	123.47
42	19	311	A86	C40-C32-C31	-3.11	107.69	110.47
30	14	310	CLA	CAA-C2A-C1A	3.11	122.17	111.97
30	C	520	CLA	C1B-CHB-C4A	-3.11	123.96	130.12
32	B	624	BCR	C7-C8-C9	-3.11	121.54	126.23
30	C	505	CLA	CMB-C2B-C3B	3.11	130.49	124.68
30	17	310	CLA	CMB-C2B-C3B	3.10	130.49	124.68
30	17	308	CLA	C4-C3-C5	3.10	120.49	115.27
30	17	301	CLA	CMB-C2B-C1B	-3.10	123.70	128.46
30	15	307	CLA	C1B-CHB-C4A	-3.10	123.98	130.12
42	21	310	A86	C36-C31-C32	-3.10	116.62	119.70
42	20	213	A86	C4-C5-C6	-3.10	122.89	127.31
30	13	309	CLA	CAA-C2A-C1A	3.10	122.12	111.97
30	16	303	CLA	CHB-C4A-NA	3.09	128.79	124.51
42	17	302	A86	C40-C32-C31	-3.09	107.70	110.47
30	b	622	CLA	CAA-C2A-C1A	3.09	122.11	111.97
30	11	308	CLA	CAA-C2A-C1A	3.09	122.11	111.97
30	15	304	CLA	C1B-CHB-C4A	-3.09	123.99	130.12
30	20	204	CLA	CHB-C4A-NA	3.09	128.79	124.51
30	w	102	CLA	C1B-CHB-C4A	-3.09	124.00	130.12
30	12	313	CLA	CMB-C2B-C3B	3.09	130.46	124.68
30	12	313	CLA	CAA-C2A-C1A	3.09	122.10	111.97
30	c	505	CLA	CMB-C2B-C3B	3.09	130.46	124.68
30	14	310	CLA	CMB-C2B-C3B	3.08	130.45	124.68
30	D	402	CLA	CMB-C2B-C3B	3.08	130.44	124.68
30	13	305	CLA	CHB-C4A-NA	3.08	128.77	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	21	314	A86	C4-C5-C6	-3.08	122.92	127.31
30	c	505	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
30	18	311	CLA	CHB-C4A-NA	3.07	128.76	124.51
42	20	212	A86	C25-C24-C1	-3.07	117.79	126.42
32	a	408	BCR	C11-C10-C9	-3.07	122.93	127.31
32	c	515	BCR	C24-C23-C22	-3.07	121.60	126.23
30	d	402	CLA	CMB-C2B-C3B	3.07	130.41	124.68
30	B	615	CLA	CMB-C2B-C3B	3.07	130.41	124.68
32	A	409	BCR	C11-C10-C9	-3.07	122.94	127.31
42	16	310	A86	C26-C25-C24	-3.06	113.66	123.22
30	11	304	CLA	C2A-C1A-CHA	3.06	129.21	123.86
33	l	101	SQD	C3-C4-C5	3.06	115.70	110.24
30	18	311	CLA	C1B-CHB-C4A	-3.06	124.06	130.12
32	b	616	BCR	C15-C14-C13	-3.06	122.95	127.31
30	11	304	CLA	CHB-C4A-NA	3.06	128.74	124.51
30	14	305	CLA	CBA-CAA-C2A	3.06	122.88	113.86
30	19	304	CLA	C2A-C1A-CHA	3.05	129.20	123.86
30	12	307	CLA	CBA-CAA-C2A	3.05	122.88	113.86
30	C	508	CLA	O2D-CGD-O1D	-3.05	117.87	123.84
39	C	516	DGD	C1D-C2D-C3D	-3.05	103.64	110.00
37	B	625	LMU	O5'-C5'-C4'	3.05	116.19	109.75
30	B	623	CLA	CAA-C2A-C1A	3.05	121.97	111.97
30	C	504	CLA	CMB-C2B-C1B	-3.05	123.77	128.46
35	A	408	LHG	O8-C23-C24	3.05	121.48	111.91
42	17	302	A86	C12-C11-C13	3.05	121.15	116.02
30	11	303	CLA	CBA-CAA-C2A	3.05	122.87	113.86
30	c	508	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
30	21	301	CLA	CMB-C2B-C3B	3.05	130.38	124.68
30	c	507	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
30	13	305	CLA	C2A-C1A-CHA	3.05	129.19	123.86
42	13	314	A86	C36-C31-C32	-3.04	116.68	119.70
30	13	309	CLA	CMB-C2B-C3B	3.04	130.37	124.68
30	13	304	CLA	CBA-CAA-C2A	3.04	122.84	113.86
33	L	103	SQD	C3-C4-C5	3.04	115.67	110.24
30	w	102	CLA	CMB-C2B-C3B	3.04	130.37	124.68
32	C	515	BCR	C11-C10-C9	-3.04	122.97	127.31
30	16	304	CLA	CMB-C2B-C3B	3.04	130.37	124.68
35	a	407	LHG	O8-C23-C24	3.04	121.45	111.91
30	b	615	CLA	CMB-C2B-C3B	3.04	130.36	124.68
33	B	621	SQD	O9-S-C6	3.03	110.54	106.94
30	d	407	CLA	CMB-C2B-C3B	3.03	130.35	124.68
30	d	402	CLA	CHB-C4A-NA	3.03	128.70	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	B	617	BCR	C15-C14-C13	-3.03	122.99	127.31
30	12	311	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
30	13	308	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
42	21	310	A86	C12-C11-C13	3.03	121.10	116.02
30	D	406	CLA	CMB-C2B-C3B	3.02	130.34	124.68
30	W	102	CLA	CMB-C2B-C3B	3.02	130.34	124.68
30	c	504	CLA	CMB-C2B-C1B	-3.02	123.82	128.46
30	b	605	CLA	C1B-CHB-C4A	-3.02	124.13	130.12
30	c	508	CLA	C2A-C1A-CHA	3.02	129.15	123.86
30	11	307	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
42	21	313	A86	C10-C9-C8	-3.02	113.78	123.22
30	W	102	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
42	17	302	A86	C41-C32-C31	-3.02	107.77	110.47
30	19	303	CLA	CHB-C4A-NA	3.02	128.69	124.51
30	b	614	CLA	CHB-C4A-NA	3.02	128.69	124.51
30	19	302	CLA	CHB-C4A-NA	3.02	128.69	124.51
34	a	406	BCT	O3-C-O1	-3.02	111.71	119.55
30	C	502	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
30	17	304	CLA	CHB-C4A-NA	3.02	128.69	124.51
30	11	308	CLA	CMB-C2B-C3B	3.02	130.32	124.68
42	11	313	A86	C36-C31-C32	-3.02	116.70	119.70
39	C	517	DGD	CDB-CCB-CBB	-3.02	99.11	114.42
30	B	605	CLA	C1B-CHB-C4A	-3.02	124.14	130.12
42	19	312	A86	C9-C8-C6	-3.02	117.94	126.42
39	c	517	DGD	C1D-C2D-C3D	-3.02	103.72	110.00
42	17	311	A86	C9-C10-C11	-3.02	117.74	126.61
34	A	407	BCT	O3-C-O1	-3.01	111.73	119.55
30	B	601	CLA	CMB-C2B-C3B	3.01	130.32	124.68
30	14	306	CLA	C2A-C1A-CHA	3.01	129.13	123.86
30	d	407	CLA	CHB-C4A-NA	3.01	128.68	124.51
30	B	611	CLA	CMB-C2B-C3B	3.01	130.31	124.68
30	16	309	CLA	CMB-C2B-C3B	3.01	130.31	124.68
30	15	308	CLA	CMB-C2B-C3B	3.01	130.31	124.68
42	18	315	A86	C36-C31-C32	-3.01	116.71	119.70
42	20	213	A86	C10-C9-C8	-3.01	113.83	123.22
30	B	609	CLA	CMB-C2B-C1B	-3.01	123.84	128.46
39	c	518	DGD	CDB-CCB-CBB	-3.01	99.16	114.42
30	C	505	CLA	O2D-CGD-O1D	-3.01	117.96	123.84
42	12	317	A86	C35-C34-C33	3.01	115.12	109.88
30	20	207	CLA	CHB-C4A-NA	3.01	128.67	124.51
42	18	314	A86	C3-C4-C5	-3.01	117.32	123.47
42	13	313	A86	C35-C34-C33	3.01	115.12	109.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	d	405	PL9	C41-C39-C38	-3.00	115.04	121.12
30	C	512	CLA	CAA-CBA-CGA	-3.00	104.48	113.25
30	C	519	CLA	CMB-C2B-C3B	3.00	130.29	124.68
32	c	516	BCR	C11-C10-C9	-3.00	123.03	127.31
30	18	312	CLA	CMB-C2B-C3B	3.00	130.29	124.68
30	14	309	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
30	15	302	CLA	C2A-C1A-CHA	3.00	129.11	123.86
42	21	314	A86	C10-C9-C8	-3.00	113.85	123.22
30	b	601	CLA	CMB-C2B-C3B	3.00	130.29	124.68
30	c	512	CLA	CAA-CBA-CGA	-3.00	104.49	113.25
42	17	313	A86	C35-C34-C33	3.00	115.11	109.88
30	C	507	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
30	b	609	CLA	CMB-C2B-C1B	-3.00	123.86	128.46
42	21	310	A86	C3-C4-C5	-3.00	117.33	123.47
42	11	313	A86	C25-C24-C1	-3.00	118.00	126.42
30	13	307	CLA	CMB-C2B-C3B	2.99	130.28	124.68
32	Z	101	BCR	C24-C23-C22	-2.99	121.71	126.23
30	w	102	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
30	19	309	CLA	CHB-C4A-NA	2.99	128.65	124.51
42	14	314	A86	C35-C34-C33	2.99	115.09	109.88
37	12	302	LMU	O5'-C5'-C4'	2.99	116.06	109.75
42	17	312	A86	C3-C4-C5	-2.99	117.35	123.47
30	b	614	CLA	O2D-CGD-CBD	2.99	116.58	111.27
33	a	405	SQD	O48-C23-C24	2.99	121.29	111.91
42	15	313	A86	C25-C24-C1	-2.99	118.02	126.42
42	18	315	A86	C25-C24-C1	-2.99	118.03	126.42
30	17	306	CLA	CHB-C4A-NA	2.99	128.64	124.51
33	A	406	SQD	O48-C23-C24	2.99	121.28	111.91
30	15	309	CLA	CMB-C2B-C3B	2.99	130.26	124.68
30	12	308	CLA	C2A-C1A-CHA	2.99	129.08	123.86
42	12	318	A86	C36-C31-C32	-2.98	116.73	119.70
30	b	611	CLA	CMB-C2B-C3B	2.98	130.26	124.68
42	12	318	A86	C25-C24-C1	-2.98	118.03	126.42
30	15	308	CLA	C1B-CHB-C4A	-2.98	124.21	130.12
42	14	315	A86	C25-C24-C1	-2.98	118.03	126.42
30	18	311	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
40	D	404	PL9	C41-C39-C38	-2.98	115.08	121.12
30	c	505	CLA	C1B-CHB-C4A	-2.98	124.21	130.12
30	19	305	CLA	CMB-C2B-C3B	2.98	130.26	124.68
33	b	620	SQD	O9-S-C6	2.98	110.48	106.94
30	D	406	CLA	CHB-C4A-NA	2.98	128.63	124.51
42	17	315	A86	C7-C6-C5	-2.98	118.75	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	15	313	A86	C36-C31-C32	-2.98	116.74	119.70
42	13	314	A86	C25-C24-C1	-2.98	118.05	126.42
35	B	622	LHG	O8-C23-C24	2.98	121.25	111.91
42	15	316	A86	C7-C6-C5	-2.98	118.75	122.92
42	16	312	A86	C35-C34-C33	2.98	115.07	109.88
35	b	621	LHG	O8-C23-C24	2.98	121.24	111.91
42	13	301	A86	C7-C6-C5	-2.97	118.76	122.92
30	D	402	CLA	CHB-C4A-NA	2.97	128.62	124.51
30	12	310	CLA	CMB-C2B-C3B	2.97	130.24	124.68
30	21	308	CLA	CMB-C2B-C3B	2.97	130.24	124.68
30	19	305	CLA	CHB-C4A-NA	2.97	128.62	124.51
30	21	307	CLA	CMB-C2B-C3B	2.97	130.24	124.68
42	11	316	A86	C7-C6-C5	-2.97	118.76	122.92
32	c	516	BCR	C15-C16-C17	-2.97	117.39	123.47
32	A	405	BCR	C11-C10-C9	-2.97	123.07	127.31
30	18	307	CLA	CMB-C2B-C3B	2.97	130.23	124.68
30	B	614	CLA	O2D-CGD-CBD	2.97	116.54	111.27
30	12	311	CLA	C1-C2-C3	-2.97	120.91	126.04
42	12	304	A86	C7-C6-C5	-2.97	118.77	122.92
30	B	605	CLA	CMB-C2B-C3B	2.97	130.23	124.68
30	21	303	CLA	CMB-C2B-C3B	2.97	130.23	124.68
42	14	313	A86	C3-C4-C5	-2.96	117.40	123.47
30	18	305	CLA	C1B-CHB-C4A	-2.96	124.25	130.12
30	z	101	CLA	CMB-C2B-C3B	2.96	130.22	124.68
30	15	304	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
42	17	315	A86	C17-C16-C15	2.96	112.19	109.16
36	b	619	LMG	O6-C1-O1	-2.96	102.96	109.97
30	17	308	CLA	CMB-C2B-C3B	2.96	130.22	124.68
42	16	311	A86	C3-C4-C5	-2.96	117.41	123.47
32	B	624	BCR	C11-C10-C9	-2.96	123.09	127.31
42	15	311	A86	C3-C4-C5	-2.96	117.41	123.47
30	B	610	CLA	CMB-C2B-C3B	2.96	130.21	124.68
30	17	306	CLA	C1B-CHB-C4A	-2.96	124.26	130.12
30	b	610	CLA	CMB-C2B-C3B	2.96	130.21	124.68
42	18	302	A86	C7-C6-C5	-2.96	118.78	122.92
30	C	508	CLA	C2A-C1A-CHA	2.96	129.03	123.86
42	13	312	A86	C3-C4-C5	-2.96	117.42	123.47
30	15	301	CLA	CMB-C2B-C3B	2.96	130.21	124.68
42	14	315	A86	C36-C31-C32	-2.95	116.76	119.70
30	21	309	CLA	C1B-CHB-C4A	-2.95	124.27	130.12
42	15	312	A86	C35-C34-C33	2.95	115.03	109.88
42	20	201	A86	C4-C5-C6	-2.95	123.09	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	C	515	BCR	C15-C16-C17	-2.95	117.42	123.47
42	11	311	A86	C3-C4-C5	-2.95	117.43	123.47
42	17	314	A86	C25-C24-C1	-2.95	118.13	126.42
30	14	309	CLA	C1B-CHB-C4A	-2.95	124.28	130.12
42	19	312	A86	C7-C6-C5	-2.95	118.79	122.92
30	20	208	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
30	B	614	CLA	CHB-C4A-NA	2.95	128.59	124.51
36	B	620	LMG	O6-C1-O1	-2.95	102.99	109.97
30	b	604	CLA	CHB-C4A-NA	2.95	128.59	124.51
30	C	505	CLA	C1B-CHB-C4A	-2.95	124.28	130.12
42	11	312	A86	C35-C34-C33	2.95	115.02	109.88
30	13	310	CLA	CMB-C2B-C3B	2.95	130.19	124.68
42	17	314	A86	C36-C31-C32	-2.94	116.77	119.70
42	14	315	A86	C7-C6-C8	2.94	122.72	118.08
30	d	402	CLA	C1B-CHB-C4A	-2.94	124.29	130.12
42	15	315	A86	C7-C6-C5	-2.94	118.80	122.92
42	15	312	A86	C12-C11-C13	2.94	120.96	116.02
42	12	316	A86	C3-C4-C5	-2.94	117.45	123.47
30	18	306	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
30	15	305	CLA	CHB-C4A-NA	2.94	128.58	124.51
42	16	313	A86	C41-C32-C31	-2.94	107.84	110.47
42	14	314	A86	C12-C11-C13	2.94	120.96	116.02
30	11	305	CLA	CHB-C4A-NA	2.94	128.57	124.51
30	12	309	CLA	CHB-C4A-NA	2.94	128.57	124.51
30	18	303	CLA	CMB-C2B-C3B	2.94	130.17	124.68
42	17	313	A86	C12-C11-C13	2.93	120.95	116.02
30	11	307	CLA	C1B-CHB-C4A	-2.93	124.31	130.12
42	12	317	A86	C12-C11-C13	2.93	120.95	116.02
30	12	303	CLA	CHB-C4A-NA	2.93	128.57	124.51
42	15	314	A86	C41-C32-C31	-2.93	107.85	110.47
30	21	302	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
30	13	308	CLA	C1B-CHB-C4A	-2.93	124.31	130.12
30	15	303	CLA	CHB-C4A-NA	2.93	128.56	124.51
30	21	305	CLA	CHB-C4A-NA	2.93	128.56	124.51
30	C	506	CLA	C2D-C1D-ND	-2.93	107.94	110.10
30	16	305	CLA	CHB-C4A-NA	2.93	128.56	124.51
30	14	311	CLA	CMB-C2B-C3B	2.93	130.16	124.68
30	c	502	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
30	16	306	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
30	b	608	CLA	CMB-C2B-C1B	-2.93	123.97	128.46
30	b	605	CLA	CMB-C2B-C3B	2.93	130.15	124.68
30	14	308	CLA	CHB-C4A-NA	2.93	128.56	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	604	CLA	CHB-C4A-NA	2.92	128.56	124.51
30	11	306	CLA	CMB-C2B-C3B	2.92	130.15	124.68
42	13	315	A86	C7-C6-C5	-2.92	118.83	122.92
31	d	403	PHO	O1D-CGD-CBD	2.92	129.61	124.74
42	16	312	A86	C12-C11-C13	2.92	120.93	116.02
30	11	306	CLA	CHB-C4A-NA	2.92	128.55	124.51
42	17	316	A86	C41-C32-C31	-2.92	107.86	110.47
30	B	608	CLA	CMB-C2B-C1B	-2.92	123.98	128.46
42	13	313	A86	C12-C11-C13	2.92	120.92	116.02
30	B	607	CLA	C1B-CHB-C4A	-2.92	124.34	130.12
30	16	301	CLA	CHB-C4A-NA	2.92	128.54	124.51
30	11	309	CLA	CMB-C2B-C3B	2.91	130.13	124.68
30	C	513	CLA	CHB-C4A-NA	2.91	128.54	124.51
42	11	312	A86	C12-C11-C13	2.91	120.92	116.02
31	A	403	PHO	O1D-CGD-CBD	2.91	129.59	124.74
30	17	309	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
32	b	623	BCR	C7-C8-C9	-2.91	121.83	126.23
30	C	509	CLA	C1B-CHB-C4A	-2.91	124.35	130.12
42	16	311	A86	C34-O4-C38	-2.91	112.47	117.90
30	12	310	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
30	13	306	CLA	CHB-C4A-NA	2.91	128.54	124.51
30	14	305	CLA	CHB-C4A-NA	2.91	128.54	124.51
30	c	509	CLA	C1B-CHB-C4A	-2.91	124.35	130.12
30	16	305	CLA	C1B-CHB-C4A	-2.91	124.35	130.12
30	14	308	CLA	CMB-C2B-C3B	2.91	130.12	124.68
30	c	510	CLA	CHB-C4A-NA	2.91	128.54	124.51
30	12	307	CLA	CHB-C4A-NA	2.91	128.54	124.51
32	a	404	BCR	C11-C10-C9	-2.91	123.16	127.31
42	17	314	A86	C7-C6-C8	2.91	122.66	118.08
30	b	613	CLA	CHB-C4A-NA	2.91	128.53	124.51
42	13	314	A86	C7-C6-C8	2.91	122.66	118.08
30	b	607	CLA	C1B-CHB-C4A	-2.91	124.36	130.12
30	12	312	CLA	CHB-C4A-NA	2.91	128.53	124.51
30	12	314	CLA	CMB-C2B-C3B	2.91	130.12	124.68
30	D	402	CLA	C1B-CHB-C4A	-2.91	124.36	130.12
42	11	313	A86	C7-C6-C8	2.91	122.66	118.08
30	21	309	CLA	CMB-C2B-C3B	2.91	130.11	124.68
30	11	307	CLA	C1-C2-C3	-2.90	121.02	126.04
30	21	306	CLA	CMB-C2B-C3B	2.90	130.11	124.68
30	13	304	CLA	CHB-C4A-NA	2.90	128.53	124.51
30	19	304	CLA	C1B-CHB-C4A	-2.90	124.37	130.12
30	12	311	CLA	C1B-CHB-C4A	-2.90	124.37	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	11	303	CLA	CHB-C4A-NA	2.90	128.52	124.51
30	B	607	CLA	CHB-C4A-NA	2.90	128.52	124.51
30	16	305	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
42	18	315	A86	C7-C6-C8	2.90	122.65	118.08
30	17	308	CLA	CAA-C2A-C3A	-2.90	104.84	112.78
30	13	308	CLA	C1-C2-C3	-2.90	121.03	126.04
42	11	314	A86	C41-C32-C31	-2.90	107.88	110.47
30	17	310	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
42	12	318	A86	C7-C6-C8	2.89	122.64	118.08
30	16	302	CLA	CMA-C3A-C2A	-2.89	102.16	113.83
30	13	307	CLA	O2D-CGD-O1D	-2.89	118.18	123.84
42	13	312	A86	C34-O4-C38	-2.89	112.50	117.90
36	b	619	LMG	O3-C3-C2	-2.89	103.67	110.35
42	17	312	A86	C34-O4-C38	-2.89	112.51	117.90
30	11	315	CLA	CHB-C4A-NA	2.89	128.51	124.51
30	15	308	CLA	CHB-C4A-NA	2.89	128.51	124.51
32	Y	101	BCR	C24-C23-C22	-2.89	121.87	126.23
42	13	314	A86	C4-C5-C6	-2.89	123.19	127.31
42	11	311	A86	C34-O4-C38	-2.89	112.52	117.90
42	19	310	A86	C33-C32-C31	2.89	112.02	109.21
42	12	316	A86	C34-O4-C38	-2.89	112.52	117.90
30	C	510	CLA	O2D-CGD-CBD	2.89	116.40	111.27
42	14	313	A86	C34-O4-C38	-2.89	112.52	117.90
32	c	520	BCR	C16-C15-C14	-2.88	117.56	123.47
30	A	402	CLA	C7-C6-C5	-2.88	105.53	113.36
39	J	101	DGD	O2D-C2D-C1D	-2.88	103.04	110.05
30	c	513	CLA	CHB-C4A-NA	2.88	128.50	124.51
30	c	511	CLA	C2D-C1D-ND	-2.88	107.98	110.10
32	b	623	BCR	C11-C10-C9	-2.88	123.19	127.31
42	14	301	A86	C41-C32-C31	-2.88	107.89	110.47
42	15	311	A86	C34-O4-C38	-2.88	112.53	117.90
30	c	510	CLA	O2D-CGD-CBD	2.88	116.39	111.27
39	j	101	DGD	O2D-C2D-C1D	-2.88	103.05	110.05
30	c	506	CLA	CMB-C2B-C3B	2.88	130.07	124.68
30	c	506	CLA	C2D-C1D-ND	-2.88	107.98	110.10
36	B	620	LMG	O3-C3-C2	-2.88	103.69	110.35
42	15	313	A86	C7-C6-C8	2.88	122.61	118.08
30	c	512	CLA	C2A-C1A-CHA	2.88	128.89	123.86
42	17	314	A86	C4-C5-C6	-2.88	123.20	127.31
30	C	512	CLA	C2A-C1A-CHA	2.88	128.89	123.86
30	B	604	CLA	C1B-CHB-C4A	-2.88	124.42	130.12
42	15	313	A86	C4-C5-C6	-2.88	123.20	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	19	308	CLA	CHB-C4A-NA	2.88	128.49	124.51
30	C	520	CLA	CAA-C2A-C3A	-2.88	104.90	112.78
30	14	304	CLA	C2A-C1A-CHA	2.88	128.89	123.86
42	17	315	A86	C3-C4-C5	-2.88	117.58	123.47
30	B	613	CLA	CHB-C4A-NA	2.88	128.49	124.51
30	b	604	CLA	C1B-CHB-C4A	-2.88	124.42	130.12
42	18	314	A86	C34-O4-C38	-2.88	112.54	117.90
42	11	313	A86	C4-C5-C6	-2.88	123.21	127.31
30	18	308	CLA	CHB-C4A-NA	2.88	128.49	124.51
30	Z	102	CLA	CMB-C2B-C3B	2.87	130.06	124.68
30	C	506	CLA	CMB-C2B-C3B	2.87	130.06	124.68
42	14	316	A86	C41-C32-C31	-2.87	107.90	110.47
30	B	606	CLA	CMB-C2B-C3B	2.87	130.05	124.68
30	18	305	CLA	CMB-C2B-C3B	2.87	130.05	124.68
30	b	602	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
30	b	612	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
30	11	302	CLA	C2A-C1A-CHA	2.87	128.88	123.86
42	20	201	A86	C-C1-C2	-2.87	118.90	122.92
42	12	319	A86	C41-C32-C31	-2.87	107.91	110.47
32	c	520	BCR	C24-C23-C22	-2.87	121.90	126.23
32	Y	101	BCR	C16-C15-C14	-2.87	117.60	123.47
30	B	612	CLA	O2D-CGD-O1D	-2.87	118.23	123.84
30	a	402	CLA	C7-C6-C5	-2.87	105.58	113.36
30	B	602	CLA	O2D-CGD-O1D	-2.87	118.24	123.84
30	b	606	CLA	CMB-C2B-C3B	2.86	130.04	124.68
30	B	611	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
32	Y	101	BCR	C11-C10-C9	-2.86	123.22	127.31
42	14	315	A86	C4-C5-C6	-2.86	123.22	127.31
30	14	302	CLA	CHB-C4A-NA	2.86	128.47	124.51
42	18	315	A86	C4-C5-C6	-2.86	123.23	127.31
30	19	301	CLA	C4D-C3D-CAD	-2.86	104.73	108.10
30	14	309	CLA	C1-C2-C3	-2.86	121.10	126.04
30	13	303	CLA	C2A-C1A-CHA	2.86	128.85	123.86
30	19	301	CLA	C1-C2-C3	-2.85	121.11	126.04
32	c	516	BCR	C15-C14-C13	-2.85	123.24	127.31
30	18	306	CLA	C1B-CHB-C4A	-2.85	124.47	130.12
30	14	307	CLA	CHB-C4A-NA	2.85	128.45	124.51
30	14	311	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
30	13	307	CLA	CHB-C4A-NA	2.85	128.45	124.51
30	17	307	CLA	CMB-C2B-C3B	2.85	130.01	124.68
30	18	311	CLA	CMB-C2B-C3B	2.85	130.00	124.68
39	J	101	DGD	O5D-C6D-C5D	-2.85	103.78	109.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	12	310	CLA	CHB-C4A-NA	2.85	128.45	124.51
30	b	607	CLA	CHB-C4A-NA	2.84	128.44	124.51
42	20	201	A86	C33-C32-C31	2.84	111.97	109.21
30	17	307	CLA	CHB-C4A-NA	2.84	128.44	124.51
39	j	101	DGD	O5D-C6D-C5D	-2.84	103.79	109.05
30	20	203	CLA	CMB-C2B-C3B	2.84	129.99	124.68
32	C	515	BCR	C15-C14-C13	-2.84	123.26	127.31
30	b	611	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
42	11	310	A86	C3-C4-C5	-2.83	117.67	123.47
30	c	507	CLA	C1B-CHB-C4A	-2.83	124.50	130.12
30	21	301	CLA	C1B-CHB-C4A	-2.83	124.50	130.12
30	21	301	CLA	CHB-C4A-NA	2.83	128.43	124.51
42	14	312	A86	C3-C4-C5	-2.83	117.67	123.47
39	h	102	DGD	CDB-CCB-CBB	-2.83	100.05	114.42
30	b	601	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
30	16	306	CLA	C1B-CHB-C4A	-2.83	124.51	130.12
42	18	313	A86	C3-C4-C5	-2.83	117.68	123.47
39	J	101	DGD	C3G-C2G-C1G	-2.83	105.10	111.79
30	18	305	CLA	CHB-C4A-NA	2.83	128.42	124.51
30	20	202	CLA	CHB-C4A-NA	2.82	128.42	124.51
42	21	314	A86	C25-C26-C27	-2.82	123.28	127.31
30	15	307	CLA	C2A-C1A-CHA	2.82	128.80	123.86
42	19	312	A86	C40-C32-C31	-2.82	107.95	110.47
30	12	306	CLA	C2A-C1A-CHA	2.82	128.79	123.86
30	b	607	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
30	11	306	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
42	13	311	A86	C3-C4-C5	-2.82	117.70	123.47
30	C	510	CLA	CHB-C4A-NA	2.82	128.41	124.51
39	H	102	DGD	CDB-CCB-CBB	-2.82	100.11	114.42
30	B	610	CLA	CHB-C4A-NA	2.82	128.41	124.51
30	13	310	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
30	12	314	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
30	b	611	CLA	C1B-CHB-C4A	-2.81	124.54	130.12
42	12	315	A86	C3-C4-C5	-2.81	117.71	123.47
30	c	509	CLA	CHB-C4A-NA	2.81	128.40	124.51
42	15	310	A86	C3-C4-C5	-2.81	117.72	123.47
30	B	610	CLA	C1B-CHB-C4A	-2.81	124.55	130.12
30	B	609	CLA	C1B-CHB-C4A	-2.81	124.56	130.12
32	a	408	BCR	C15-C16-C17	-2.81	117.72	123.47
32	c	520	BCR	C11-C10-C9	-2.81	123.30	127.31
31	A	403	PHO	CMB-C2B-C3B	2.81	129.93	124.68
30	C	511	CLA	C2D-C1D-ND	-2.81	108.03	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	12	318	A86	C4-C5-C6	-2.81	123.31	127.31
42	21	313	A86	C8-C6-C5	-2.81	114.64	118.94
30	19	306	CLA	CMB-C2B-C3B	2.81	129.93	124.68
42	20	213	A86	C25-C26-C27	-2.81	123.31	127.31
30	20	204	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
40	D	407	PL9	C40-C39-C41	2.80	119.99	115.27
42	20	212	A86	C3-C4-C5	-2.80	117.73	123.47
30	B	601	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
30	20	206	CLA	CMB-C2B-C3B	2.80	129.92	124.68
40	D	404	PL9	C40-C39-C41	2.80	119.99	115.27
30	16	301	CLA	CMB-C2B-C3B	2.80	129.92	124.68
30	18	301	CLA	CMB-C2B-C3B	2.80	129.92	124.68
30	B	607	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
30	B	602	CLA	CHB-C4A-NA	2.80	128.39	124.51
30	C	509	CLA	CHB-C4A-NA	2.80	128.39	124.51
30	21	308	CLA	CHB-C4A-NA	2.80	128.39	124.51
30	c	509	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
30	11	315	CLA	CAA-C2A-C3A	-2.80	105.11	112.78
42	21	312	A86	C26-C25-C24	-2.80	114.48	123.22
40	d	408	PL9	C40-C39-C41	2.80	119.98	115.27
30	B	603	CLA	O2D-CGD-CBD	2.80	116.24	111.27
30	11	309	CLA	O2D-CGD-O1D	-2.80	118.37	123.84
30	12	312	CLA	CAA-C2A-C3A	-2.80	105.12	112.78
30	12	303	CLA	CAA-C2A-C3A	-2.80	105.12	112.78
30	21	303	CLA	CHB-C4A-NA	2.79	128.38	124.51
30	20	203	CLA	C1B-CHB-C4A	-2.79	124.58	130.12
30	C	503	CLA	CHB-C4A-NA	2.79	128.38	124.51
30	18	301	CLA	CHB-C4A-NA	2.79	128.38	124.51
32	B	616	BCR	C7-C8-C9	-2.79	122.01	126.23
32	m	103	BCR	C7-C8-C9	-2.79	122.01	126.23
36	c	519	LMG	O6-C1-O1	-2.79	103.36	109.97
30	19	303	CLA	CMB-C2B-C3B	2.79	129.90	124.68
30	21	301	CLA	O2D-CGD-O1D	-2.79	118.38	123.84
30	b	606	CLA	C1-C2-C3	-2.79	121.22	126.04
30	12	313	CLA	C1B-CHB-C4A	-2.79	124.59	130.12
31	d	403	PHO	CMB-C2B-C3B	2.79	129.90	124.68
30	b	622	CLA	CMD-C2D-C1D	-2.79	119.80	124.71
30	21	309	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
42	19	311	A86	C33-C32-C31	2.79	111.92	109.21
36	Q	301	LMG	O6-C1-O1	-2.78	103.38	109.97
30	14	302	CLA	CAA-C2A-C3A	-2.78	105.16	112.78
42	16	310	A86	C40-C32-C31	-2.78	107.98	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	A	409	BCR	C15-C16-C17	-2.78	117.77	123.47
30	18	311	CLA	CAA-C2A-C1A	2.78	121.09	111.97
30	B	611	CLA	C1B-CHB-C4A	-2.78	124.61	130.12
40	d	405	PL9	C40-C39-C41	2.78	119.95	115.27
30	16	308	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
42	17	315	A86	C41-C32-C31	-2.78	107.98	110.47
30	b	610	CLA	CHB-C4A-NA	2.78	128.35	124.51
30	b	601	CLA	C1B-CHB-C4A	-2.78	124.61	130.12
42	20	211	A86	C20-C19-C18	-2.78	107.26	112.75
39	J	101	DGD	CDB-CCB-CBB	-2.78	100.33	114.42
42	20	213	A86	C12-C11-C13	2.78	120.68	116.02
30	14	308	CLA	O2D-CGD-O1D	-2.77	118.41	123.84
42	20	211	A86	C10-C9-C8	-2.77	114.56	123.22
42	19	311	A86	C19-C18-C17	2.77	116.13	110.77
30	14	302	CLA	CMB-C2B-C3B	2.77	129.87	124.68
39	j	101	DGD	C3G-C2G-C1G	-2.77	105.23	111.79
30	b	609	CLA	C1B-CHB-C4A	-2.77	124.63	130.12
30	b	610	CLA	C1B-CHB-C4A	-2.77	124.63	130.12
30	b	603	CLA	O2D-CGD-CBD	2.77	116.19	111.27
42	21	311	A86	C20-C19-C18	-2.77	107.27	112.75
42	17	302	A86	C7-C6-C5	-2.77	119.04	122.92
33	a	405	SQD	C1-O5-C5	2.77	119.13	113.69
30	17	305	CLA	CHB-C4A-NA	2.77	128.34	124.51
30	C	507	CLA	C1B-CHB-C4A	-2.77	124.64	130.12
30	15	308	CLA	CAA-C2A-C1A	2.77	121.05	111.97
30	c	503	CLA	CMB-C2B-C1B	-2.77	124.21	128.46
32	b	616	BCR	C11-C10-C9	-2.77	123.36	127.31
30	b	602	CLA	CHB-C4A-NA	2.77	128.34	124.51
33	A	406	SQD	C1-O5-C5	2.77	119.12	113.69
39	j	101	DGD	CDB-CCB-CBB	-2.77	100.38	114.42
30	M	101	CLA	C1B-CHB-C4A	-2.77	124.64	130.12
30	15	303	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
30	d	402	CLA	O2D-CGD-CBD	2.76	116.18	111.27
30	21	307	CLA	O2D-CGD-O1D	-2.76	118.43	123.84
30	16	309	CLA	C1B-CHB-C4A	-2.76	124.64	130.12
30	16	307	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
42	21	311	A86	C10-C9-C8	-2.76	114.59	123.22
30	B	615	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
30	19	301	CLA	C1B-CHB-C4A	-2.76	124.65	130.12
42	21	314	A86	C12-C11-C13	2.76	120.66	116.02
30	17	309	CLA	C1B-CHB-C4A	-2.76	124.65	130.12
30	11	304	CLA	C3A-C2A-C1A	2.76	105.47	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	605	CLA	O2D-CGD-O1D	-2.76	118.44	123.84
30	13	309	CLA	C1B-CHB-C4A	-2.76	124.65	130.12
30	17	304	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
30	b	605	CLA	O2D-CGD-O1D	-2.75	118.45	123.84
30	C	503	CLA	CMB-C2B-C1B	-2.75	124.23	128.46
30	11	308	CLA	C1B-CHB-C4A	-2.75	124.66	130.12
30	b	603	CLA	CHB-C4A-NA	2.75	128.32	124.51
30	c	502	CLA	CHB-C4A-NA	2.75	128.32	124.51
39	C	516	DGD	C3G-C2G-C1G	-2.75	105.28	111.79
30	11	303	CLA	O2D-CGD-O1D	-2.75	118.45	123.84
30	B	606	CLA	CHB-C4A-NA	2.75	128.32	124.51
30	C	502	CLA	CHB-C4A-NA	2.75	128.32	124.51
30	b	615	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
30	12	307	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
30	B	603	CLA	CHB-C4A-NA	2.75	128.32	124.51
30	B	601	CLA	C1B-CHB-C4A	-2.75	124.67	130.12
42	20	201	A86	C4-C3-C2	-2.75	117.85	123.47
30	19	307	CLA	CHB-C4A-NA	2.75	128.31	124.51
30	B	609	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
30	13	304	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
30	D	402	CLA	O2D-CGD-CBD	2.75	116.15	111.27
30	14	305	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
30	C	509	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
30	14	310	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
30	m	101	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
30	12	303	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
30	15	309	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
42	19	311	A86	C-C1-C2	-2.74	119.09	122.92
30	17	308	CLA	C2D-C1D-ND	-2.74	108.09	110.10
30	A	402	CLA	C1B-CHB-C4A	-2.74	124.70	130.12
30	W	102	CLA	CHB-C4A-NA	2.74	128.30	124.51
30	21	302	CLA	CHB-C4A-NA	2.74	128.30	124.51
30	19	303	CLA	CAA-CBA-CGA	2.74	121.25	113.25
30	18	312	CLA	C1B-CHB-C4A	-2.74	124.70	130.12
30	b	609	CLA	O2D-CGD-O1D	-2.74	118.49	123.84
30	17	309	CLA	CMB-C2B-C3B	2.73	129.79	124.68
30	21	303	CLA	O2D-CGD-O1D	-2.73	118.49	123.84
42	21	313	A86	C26-C25-C24	-2.73	114.69	123.22
30	17	306	CLA	C2D-C1D-ND	-2.73	108.09	110.10
30	16	304	CLA	CHB-C4A-NA	2.73	128.29	124.51
30	17	301	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
42	16	310	A86	C12-C11-C13	2.73	120.61	116.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	18	306	CLA	CHB-C4A-NA	2.73	128.28	124.51
32	B	617	BCR	C11-C10-C9	-2.73	123.42	127.31
39	c	517	DGD	C3G-C2G-C1G	-2.72	105.34	111.79
30	18	307	CLA	O2D-CGD-O1D	-2.72	118.51	123.84
32	C	515	BCR	C28-C27-C26	-2.72	109.21	114.08
30	b	606	CLA	CHB-C4A-NA	2.72	128.28	124.51
30	18	309	CLA	C2A-C1A-CHA	2.72	128.62	123.86
36	b	618	LMG	C1-C2-C3	-2.72	104.33	110.00
30	z	101	CLA	CHB-C4A-NA	2.72	128.27	124.51
36	B	619	LMG	C1-C2-C3	-2.72	104.33	110.00
30	b	603	CLA	C1B-CHB-C4A	-2.72	124.74	130.12
30	c	507	CLA	C2A-C1A-CHA	2.72	128.61	123.86
42	21	310	A86	C41-C32-C31	-2.72	108.04	110.47
30	d	407	CLA	C1B-CHB-C4A	-2.72	124.74	130.12
41	f	102	HEM	CMB-C2B-C1B	-2.72	120.90	125.04
30	15	306	CLA	CMB-C2B-C3B	2.72	129.76	124.68
30	20	209	CLA	O2D-CGD-O1D	-2.71	118.53	123.84
30	20	206	CLA	C2A-C1A-CHA	2.71	128.61	123.86
30	B	606	CLA	C1-C2-C3	-2.71	121.35	126.04
30	C	507	CLA	C2A-C1A-CHA	2.71	128.60	123.86
30	B	603	CLA	C1B-CHB-C4A	-2.71	124.76	130.12
30	c	510	CLA	C1B-CHB-C4A	-2.70	124.76	130.12
30	b	622	CLA	CMB-C2B-C3B	2.70	129.74	124.68
30	w	102	CLA	CHB-C4A-NA	2.70	128.25	124.51
30	19	306	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
39	j	101	DGD	O3G-C1D-C2D	-2.70	104.09	108.30
30	D	406	CLA	C1B-CHB-C4A	-2.70	124.77	130.12
30	w	103	CLA	C1B-CHB-C4A	-2.70	124.77	130.12
30	c	508	CLA	O1D-CGD-CBD	2.70	130.01	124.48
30	13	305	CLA	C3A-C2A-C1A	2.70	105.38	101.34
30	c	503	CLA	CHB-C4A-NA	2.70	128.24	124.51
30	21	306	CLA	CHB-C4A-NA	2.70	128.24	124.51
30	d	402	CLA	O2D-CGD-O1D	-2.70	118.57	123.84
36	1	101	LMG	O3-C3-C2	-2.70	104.12	110.35
30	16	303	CLA	CAA-C2A-C1A	2.70	120.81	111.97
30	11	315	CLA	CMB-C2B-C3B	2.69	129.72	124.68
30	C	506	CLA	CHB-C4A-NA	2.69	128.24	124.51
30	18	307	CLA	CHB-C4A-NA	2.69	128.24	124.51
42	14	314	A86	C3-C4-C5	-2.69	117.95	123.47
30	C	519	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
30	D	402	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
42	19	310	A86	C3-C4-C5	-2.69	117.96	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	c	506	CLA	CHB-C4A-NA	2.69	128.24	124.51
32	c	516	BCR	C28-C27-C26	-2.69	109.27	114.08
30	B	604	CLA	C2D-C1D-ND	-2.69	108.12	110.10
36	12	301	LMG	O3-C3-C2	-2.69	104.13	110.35
30	19	307	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
30	19	302	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
30	17	307	CLA	C1B-CHB-C4A	-2.69	124.79	130.12
30	14	306	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
42	16	312	A86	C3-C4-C5	-2.69	117.96	123.47
36	d	410	LMG	O1-C7-C8	-2.69	104.41	110.90
39	J	101	DGD	O3G-C1D-C2D	-2.69	104.11	108.30
30	C	504	CLA	CAA-CBA-CGA	-2.69	105.40	113.25
30	18	312	CLA	CHB-C4A-NA	2.69	128.23	124.51
30	20	205	CLA	O2D-CGD-O1D	-2.69	118.58	123.84
30	C	504	CLA	CHB-C4A-NA	2.69	128.23	124.51
30	21	307	CLA	CHB-C4A-NA	2.69	128.23	124.51
30	c	504	CLA	CAA-CBA-CGA	-2.68	105.41	113.25
30	C	502	CLA	CAA-C2A-C3A	-2.68	105.43	112.78
30	W	103	CLA	C1B-CHB-C4A	-2.68	124.80	130.12
30	b	604	CLA	C1-C2-C3	-2.68	121.40	126.04
30	17	306	CLA	CAA-C2A-C3A	-2.68	105.43	112.78
30	C	508	CLA	O1D-CGD-CBD	2.68	129.97	124.48
30	a	402	CLA	C1B-CHB-C4A	-2.68	124.81	130.12
40	D	407	PL9	C22-C23-C24	-2.68	121.20	127.66
30	C	510	CLA	O2D-CGD-O1D	-2.68	118.60	123.84
32	B	616	BCR	C11-C10-C9	-2.68	123.48	127.31
30	C	504	CLA	CMB-C2B-C3B	2.68	129.69	124.68
30	C	510	CLA	C1B-CHB-C4A	-2.68	124.81	130.12
42	17	313	A86	C20-C19-C18	-2.68	107.45	112.75
30	c	502	CLA	CAA-C2A-C3A	-2.68	105.44	112.78
32	m	103	BCR	C11-C10-C9	-2.68	123.49	127.31
30	18	304	CLA	O2D-CGD-O1D	-2.67	118.61	123.84
30	12	303	CLA	CMB-C2B-C3B	2.67	129.68	124.68
30	B	606	CLA	O2D-CGD-O1D	-2.67	118.61	123.84
30	15	309	CLA	CHB-C4A-NA	2.67	128.21	124.51
42	12	317	A86	C3-C4-C5	-2.67	118.00	123.47
30	12	308	CLA	C3A-C2A-C1A	2.67	105.34	101.34
40	d	408	PL9	C22-C23-C24	-2.67	121.23	127.66
30	b	606	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
42	15	312	A86	C3-C4-C5	-2.67	118.00	123.47
36	D	408	LMG	O1-C7-C8	-2.67	104.46	110.90
30	c	510	CLA	O2D-CGD-O1D	-2.67	118.62	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	16	302	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
42	14	315	A86	C8-C6-C5	-2.67	114.85	118.94
30	20	209	CLA	CHB-C4A-NA	2.67	128.20	124.51
30	B	604	CLA	C1-C2-C3	-2.67	121.43	126.04
42	21	310	A86	C10-C9-C8	-2.67	114.90	123.22
32	c	521	BCR	C11-C10-C9	-2.66	123.51	127.31
42	11	312	A86	C20-C19-C18	-2.66	107.48	112.75
42	13	313	A86	C3-C4-C5	-2.66	118.02	123.47
32	c	521	BCR	C27-C26-C25	2.66	126.60	122.73
30	21	309	CLA	CHB-C4A-NA	2.66	128.19	124.51
30	d	401	CLA	CHB-C4A-NA	2.66	128.19	124.51
30	20	203	CLA	CHB-C4A-NA	2.66	128.19	124.51
30	12	312	CLA	CMB-C2B-C3B	2.66	129.66	124.68
30	18	308	CLA	CMB-C2B-C3B	2.66	129.66	124.68
42	11	312	A86	C3-C4-C5	-2.66	118.02	123.47
42	17	313	A86	C3-C4-C5	-2.66	118.02	123.47
30	z	101	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
30	B	623	CLA	CHB-C4A-NA	2.66	128.19	124.51
30	18	309	CLA	CHB-C4A-NA	2.66	128.19	124.51
30	D	401	CLA	CHB-C4A-NA	2.66	128.19	124.51
42	15	312	A86	C20-C19-C18	-2.66	107.49	112.75
30	14	302	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
30	20	209	CLA	C1B-CHB-C4A	-2.66	124.86	130.12
42	16	312	A86	C20-C19-C18	-2.66	107.49	112.75
30	b	604	CLA	CAA-C2A-C3A	-2.66	105.50	112.78
30	C	514	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
39	c	517	DGD	C1E-O6E-C5E	2.65	118.90	113.69
30	b	622	CLA	O2D-CGD-O1D	-2.65	118.65	123.84
30	b	622	CLA	CHB-C4A-NA	2.65	128.18	124.51
30	16	308	CLA	O2A-CGA-O1A	-2.65	116.69	123.30
30	C	503	CLA	C1B-CHB-C4A	-2.65	124.87	130.12
32	B	616	BCR	C24-C23-C22	-2.65	122.23	126.23
30	b	614	CLA	O2A-CGA-O1A	-2.65	116.91	123.59
30	19	303	CLA	C1-O2A-CGA	2.65	123.39	116.44
39	H	102	DGD	O6D-C1D-O3G	-2.65	103.71	109.97
30	11	315	CLA	O2D-CGD-O1D	-2.65	118.67	123.84
30	21	309	CLA	CAA-C2A-C1A	-2.65	103.31	111.97
30	C	519	CLA	CHB-C4A-NA	2.64	128.17	124.51
42	18	315	A86	C8-C6-C5	-2.64	114.88	118.94
30	14	306	CLA	C3A-C2A-C1A	2.64	105.30	101.34
30	C	519	CLA	C1B-CHB-C4A	-2.64	124.89	130.12
30	17	309	CLA	O2A-CGA-O1A	-2.64	116.72	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	C	517	DGD	CBB-CAB-C9B	-2.64	101.02	114.42
42	11	313	A86	C8-C6-C5	-2.64	114.89	118.94
30	B	610	CLA	O2D-CGD-CBD	2.64	115.96	111.27
30	18	301	CLA	C1B-CHB-C4A	-2.64	124.89	130.12
30	c	514	CLA	O2D-CGD-O1D	-2.64	118.68	123.84
42	17	314	A86	C8-C6-C5	-2.64	114.89	118.94
41	F	102	HEM	CMB-C2B-C1B	-2.64	121.02	125.04
30	c	503	CLA	C1B-CHB-C4A	-2.64	124.89	130.12
30	B	614	CLA	O2A-CGA-O1A	-2.64	116.94	123.59
30	b	606	CLA	CAA-CBA-CGA	-2.64	105.55	113.25
30	Z	102	CLA	C1B-CHB-C4A	-2.64	124.90	130.12
30	11	304	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
30	21	308	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
42	19	311	A86	O-C13-C14	-2.63	116.31	121.66
30	12	312	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
42	14	314	A86	C20-C19-C18	-2.63	107.54	112.75
42	13	313	A86	C20-C19-C18	-2.63	107.54	112.75
32	C	518	BCR	C11-C10-C9	-2.63	123.55	127.31
30	14	311	CLA	CHB-C4A-NA	2.63	128.15	124.51
30	d	406	CLA	CAA-CBA-CGA	-2.63	105.56	113.25
42	20	210	A86	C17-C16-C15	2.63	111.85	109.16
30	c	504	CLA	CMB-C2B-C3B	2.63	129.60	124.68
30	c	512	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
31	A	403	PHO	O2D-CGD-O1D	-2.63	118.69	123.84
42	12	317	A86	C20-C19-C18	-2.63	107.54	112.75
30	12	308	CLA	O2D-CGD-O1D	-2.63	118.69	123.84
30	13	310	CLA	CHB-C4A-NA	2.63	128.15	124.51
42	13	314	A86	C8-C6-C5	-2.63	114.90	118.94
30	z	101	CLA	C1B-CHB-C4A	-2.63	124.91	130.12
35	L	102	LHG	C20-C19-C18	-2.63	101.08	114.42
30	15	307	CLA	C1-C2-C3	-2.63	121.50	126.04
30	17	307	CLA	C2D-C1D-ND	-2.63	108.17	110.10
39	h	102	DGD	O6D-C1D-O3G	-2.63	103.75	109.97
39	h	102	DGD	C3G-C2G-C1G	-2.63	105.58	111.79
42	15	313	A86	C8-C6-C5	-2.62	114.91	118.94
35	l	102	LHG	C20-C19-C18	-2.62	101.10	114.42
30	17	310	CLA	CHB-C4A-NA	2.62	128.14	124.51
30	b	610	CLA	O2D-CGD-CBD	2.62	115.93	111.27
36	Q	301	LMG	O2-C2-C1	-2.62	103.68	110.05
31	d	403	PHO	O2D-CGD-O1D	-2.62	118.71	123.84
30	17	306	CLA	O2D-CGD-O1D	-2.62	118.71	123.84
39	c	518	DGD	O2D-C2D-C1D	-2.62	103.68	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	15	305	CLA	O2D-CGD-O1D	-2.62	118.72	123.84
40	D	407	PL9	C31-C32-C33	-2.62	103.28	111.88
30	14	306	CLA	O2D-CGD-CBD	2.62	115.92	111.27
30	B	604	CLA	CAA-C2A-C3A	-2.62	105.61	112.78
30	D	405	CLA	CAA-CBA-CGA	-2.62	105.60	113.25
30	b	604	CLA	C2D-C1D-ND	-2.62	108.17	110.10
32	Y	101	BCR	C28-C27-C26	-2.62	109.41	114.08
30	M	101	CLA	CHB-C4A-NA	2.62	128.13	124.51
30	21	302	CLA	C2A-C1A-CHA	2.62	128.43	123.86
39	c	518	DGD	CBB-CAB-C9B	-2.62	101.15	114.42
30	B	606	CLA	CAA-CBA-CGA	-2.61	105.61	113.25
39	C	516	DGD	C1E-O6E-C5E	2.61	118.82	113.69
30	C	520	CLA	O2D-CGD-CBD	2.61	115.91	111.27
30	d	406	CLA	C1B-CHB-C4A	-2.61	124.94	130.12
42	16	310	A86	C3-C4-C5	-2.61	118.12	123.47
30	B	609	CLA	CMB-C2B-C3B	2.61	129.57	124.68
39	C	517	DGD	O2D-C2D-C1D	-2.61	103.70	110.05
30	B	623	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
32	B	618	BCR	C3-C4-C5	-2.61	109.42	114.08
32	m	103	BCR	C24-C23-C22	-2.61	122.29	126.23
32	c	520	BCR	C34-C9-C10	-2.61	119.27	122.92
30	19	308	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
36	w	101	LMG	C1-C2-C3	-2.61	104.57	110.00
30	16	308	CLA	CMB-C2B-C3B	2.61	129.56	124.68
30	19	301	CLA	O2D-CGD-O1D	-2.61	118.74	123.84
42	17	311	A86	C40-C32-C31	-2.61	108.14	110.47
42	17	302	A86	C34-O4-C38	-2.61	113.04	117.90
30	b	609	CLA	CMB-C2B-C3B	2.61	129.55	124.68
40	D	404	PL9	C7-C8-C9	-2.61	122.45	126.79
30	16	309	CLA	CHB-C4A-NA	2.60	128.11	124.51
30	B	623	CLA	CMB-C2B-C3B	2.60	129.54	124.68
39	H	102	DGD	C3G-C2G-C1G	-2.60	105.64	111.79
36	c	519	LMG	O2-C2-C1	-2.60	103.74	110.05
42	12	319	A86	C7-C6-C8	2.60	122.17	118.08
40	d	408	PL9	C31-C32-C33	-2.60	103.35	111.88
36	w	101	LMG	O3-C3-C2	-2.60	104.35	110.35
32	c	520	BCR	C28-C27-C26	-2.60	109.44	114.08
30	16	308	CLA	CHB-C4A-NA	2.59	128.10	124.51
30	13	305	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
30	m	101	CLA	CHB-C4A-NA	2.59	128.10	124.51
42	11	314	A86	C7-C6-C8	2.59	122.16	118.08
30	c	504	CLA	C2A-C1A-CHA	2.59	128.39	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	15	304	CLA	CHB-C4A-NA	2.59	128.10	124.51
42	14	301	A86	C7-C6-C8	2.59	122.16	118.08
30	19	303	CLA	C1B-CHB-C4A	-2.59	124.98	130.12
36	M	102	LMG	O3-C3-C2	-2.59	104.36	110.35
30	17	301	CLA	CMA-C3A-C2A	-2.59	103.38	113.83
36	m	102	LMG	O3-C3-C2	-2.59	104.36	110.35
30	C	512	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
42	20	201	A86	C34-O4-C38	-2.59	113.08	117.90
30	D	405	CLA	C1B-CHB-C4A	-2.59	125.00	130.12
30	18	310	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
30	18	308	CLA	O2D-CGD-O1D	-2.58	118.79	123.84
30	C	509	CLA	O2D-CGD-CBD	2.58	115.86	111.27
30	13	310	CLA	C1B-CHB-C4A	-2.58	125.00	130.12
32	C	518	BCR	C27-C26-C25	2.58	126.48	122.73
36	W	101	LMG	O3-C3-C2	-2.58	104.38	110.35
42	12	318	A86	C8-C6-C5	-2.58	114.98	118.94
30	17	309	CLA	C2A-C3A-C4A	-2.58	97.70	101.87
30	Z	102	CLA	CHB-C4A-NA	2.58	128.08	124.51
32	b	617	BCR	C3-C4-C5	-2.58	109.47	114.08
30	c	502	CLA	C1B-CHB-C4A	-2.58	125.01	130.12
30	b	622	CLA	CMD-C2D-C3D	2.58	133.54	127.61
40	d	405	PL9	C7-C8-C9	-2.58	122.50	126.79
30	12	314	CLA	CHB-C4A-NA	2.58	128.08	124.51
30	B	604	CLA	CAA-CBA-CGA	-2.58	105.72	113.25
42	14	316	A86	C7-C6-C8	2.58	122.14	118.08
35	l	102	LHG	O8-C23-C24	2.58	119.99	111.91
30	21	303	CLA	C1B-CHB-C4A	-2.57	125.02	130.12
42	15	314	A86	C7-C6-C8	2.57	122.13	118.08
30	14	311	CLA	C1B-CHB-C4A	-2.57	125.02	130.12
30	c	504	CLA	CHB-C4A-NA	2.57	128.07	124.51
35	L	102	LHG	O8-C23-C24	2.57	119.98	111.91
32	B	617	BCR	C27-C26-C25	2.57	126.46	122.73
30	20	204	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
41	F	102	HEM	CBA-CAA-C2A	2.57	117.00	112.62
30	B	606	CLA	CHD-C1D-ND	-2.57	122.09	124.45
42	17	311	A86	O1-C15-C14	2.57	118.36	113.21
30	b	604	CLA	CAA-CBA-CGA	-2.57	105.75	113.25
32	Y	101	BCR	C34-C9-C10	-2.57	119.33	122.92
32	b	616	BCR	C27-C26-C25	2.57	126.46	122.73
30	C	504	CLA	C2A-C1A-CHA	2.57	128.34	123.86
30	B	610	CLA	CAA-C2A-C3A	-2.56	105.75	112.78
30	18	303	CLA	O2D-CGD-O1D	-2.56	118.83	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	16	310	A86	C34-O4-C38	-2.56	113.12	117.90
30	b	604	CLA	C2A-C1A-CHA	2.56	128.34	123.86
32	B	617	BCR	C40-C30-C25	2.56	114.45	110.30
36	W	101	LMG	C1-C2-C3	-2.56	104.66	110.00
36	W	101	LMG	C38-C37-C36	-2.56	101.43	114.42
30	c	509	CLA	O2D-CGD-CBD	2.56	115.81	111.27
30	19	302	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
36	w	101	LMG	C38-C37-C36	-2.56	101.44	114.42
30	11	301	CLA	O2D-CGD-O1D	-2.56	118.84	123.84
41	f	102	HEM	CBA-CAA-C2A	2.56	116.98	112.62
30	19	305	CLA	C1B-CHB-C4A	-2.56	125.06	130.12
30	C	506	CLA	O2D-CGD-CBD	2.56	115.81	111.27
30	12	314	CLA	C1B-CHB-C4A	-2.56	125.06	130.12
30	11	309	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
30	C	508	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
42	19	311	A86	O-C13-C11	-2.55	115.51	121.15
42	16	313	A86	C7-C6-C8	2.55	122.10	118.08
30	b	610	CLA	CAA-C2A-C3A	-2.55	105.79	112.78
42	19	310	A86	C12-C11-C13	2.55	120.31	116.02
42	17	302	A86	C26-C25-C24	-2.55	115.26	123.22
42	16	310	A86	C4-C3-C2	-2.55	118.25	123.47
42	17	302	A86	C4-C3-C2	-2.55	118.25	123.47
30	15	303	CLA	C1B-CHB-C4A	-2.55	125.07	130.12
30	11	309	CLA	CHB-C4A-NA	2.55	128.04	124.51
32	B	624	BCR	C15-C14-C13	-2.55	123.67	127.31
30	c	511	CLA	CHB-C4A-NA	2.55	128.04	124.51
32	b	623	BCR	C15-C14-C13	-2.55	123.67	127.31
30	11	304	CLA	O2D-CGD-CBD	2.55	115.80	111.27
30	16	301	CLA	C1B-CHB-C4A	-2.55	125.07	130.12
37	B	625	LMU	O5B-C1B-C2B	2.55	115.74	110.35
30	d	401	CLA	O2D-CGD-O1D	-2.55	118.86	123.84
30	B	604	CLA	C2A-C1A-CHA	2.54	128.31	123.86
30	B	613	CLA	C1B-CHB-C4A	-2.54	125.08	130.12
30	12	305	CLA	O2D-CGD-O1D	-2.54	118.86	123.84
32	a	408	BCR	C15-C14-C13	-2.54	123.68	127.31
30	21	309	CLA	CAA-C2A-C3A	-2.54	105.81	112.78
39	c	518	DGD	O6D-C5D-C6D	-2.54	101.53	106.67
30	13	306	CLA	O2D-CGD-O1D	-2.54	118.88	123.84
30	C	502	CLA	C1B-CHB-C4A	-2.54	125.09	130.12
40	d	408	PL9	C7-C3-C4	2.54	118.94	116.88
42	11	310	A86	C25-C24-C1	-2.54	119.29	126.42
42	17	316	A86	C7-C6-C8	2.54	122.07	118.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	615	CLA	CHB-C4A-NA	2.53	128.02	124.51
32	F	101	BCR	C11-C10-C9	-2.53	123.69	127.31
30	13	308	CLA	C2A-C1A-CHA	2.53	128.29	123.86
30	D	401	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
30	11	305	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
32	f	101	BCR	C11-C10-C9	-2.53	123.70	127.31
30	c	508	CLA	C1B-CHB-C4A	-2.53	125.10	130.12
30	21	306	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
30	d	407	CLA	O2D-CGD-CBD	2.53	115.76	111.27
30	D	406	CLA	O2D-CGD-CBD	2.53	115.76	111.27
30	C	520	CLA	C2A-C1A-CHA	2.53	128.28	123.86
30	d	406	CLA	CHB-C4A-NA	2.53	128.01	124.51
30	c	503	CLA	O2A-CGA-O1A	-2.53	117.21	123.59
30	13	302	CLA	O2D-CGD-O1D	-2.53	118.89	123.84
35	B	622	LHG	C11-C10-C9	-2.53	101.59	114.42
35	L	101	LHG	C20-C19-C18	-2.53	101.59	114.42
30	14	303	CLA	O2D-CGD-O1D	-2.53	118.90	123.84
32	B	616	BCR	C15-C14-C13	-2.53	123.70	127.31
33	a	405	SQD	O7-S-C6	2.53	109.94	106.94
30	w	103	CLA	CHB-C4A-NA	2.53	128.00	124.51
39	C	517	DGD	O6D-C5D-C6D	-2.52	101.57	106.67
35	d	409	LHG	C20-C19-C18	-2.52	101.61	114.42
30	13	303	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
32	b	616	BCR	C15-C16-C17	-2.52	118.31	123.47
42	13	301	A86	C41-C32-C31	-2.52	108.21	110.47
30	18	304	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
42	13	311	A86	C25-C24-C1	-2.52	119.33	126.42
30	C	503	CLA	O2A-CGA-O1A	-2.52	117.23	123.59
42	13	311	A86	C7-C6-C8	2.52	122.05	118.08
30	12	311	CLA	C2A-C1A-CHA	2.52	128.27	123.86
32	f	101	BCR	C7-C8-C9	-2.52	122.42	126.23
36	M	102	LMG	O2-C2-C1	-2.52	103.92	110.05
40	D	407	PL9	C7-C3-C4	2.52	118.92	116.88
30	17	305	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
30	18	308	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
32	c	516	BCR	C29-C30-C25	2.52	114.36	110.48
42	14	301	A86	C3-C4-C5	-2.52	118.31	123.47
30	b	613	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
42	15	310	A86	C25-C24-C1	-2.52	119.34	126.42
36	m	102	LMG	O2-C2-C1	-2.52	103.93	110.05
30	12	309	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
42	21	313	A86	O1-C15-C14	-2.52	108.16	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	B	617	BCR	C15-C16-C17	-2.52	118.32	123.47
30	19	306	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
30	12	308	CLA	O2D-CGD-CBD	2.52	115.74	111.27
30	17	303	CLA	CMB-C2B-C3B	2.52	129.39	124.68
30	11	302	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
30	14	307	CLA	O2D-CGD-O1D	-2.52	118.92	123.84
30	C	511	CLA	CHB-C4A-NA	2.52	127.99	124.51
30	20	208	CLA	CHB-C4A-NA	2.52	127.99	124.51
30	20	207	CLA	O2D-CGD-O1D	-2.51	118.92	123.84
32	A	409	BCR	C15-C14-C13	-2.51	123.72	127.31
32	m	103	BCR	C15-C14-C13	-2.51	123.72	127.31
35	A	408	LHG	C20-C19-C18	-2.51	101.66	114.42
30	19	303	CLA	O2D-CGD-O1D	-2.51	118.92	123.84
30	a	403	CLA	CMB-C2B-C1B	-2.51	124.60	128.46
35	b	621	LHG	C11-C10-C9	-2.51	101.67	114.42
32	b	616	BCR	C40-C30-C25	2.51	114.38	110.30
36	w	101	LMG	O1-C1-C2	-2.51	104.38	108.30
42	18	313	A86	C7-C6-C8	2.51	122.03	118.08
30	15	301	CLA	O2D-CGD-O1D	-2.51	118.93	123.84
42	11	314	A86	C3-C4-C5	-2.51	118.33	123.47
30	16	308	CLA	CAA-C2A-C3A	-2.51	105.90	112.78
42	15	314	A86	C3-C4-C5	-2.51	118.33	123.47
42	12	304	A86	C41-C32-C31	-2.51	108.23	110.47
30	b	615	CLA	CHB-C4A-NA	2.51	127.98	124.51
42	14	313	A86	C20-C19-C18	-2.51	107.79	112.75
35	a	407	LHG	C20-C19-C18	-2.51	101.69	114.42
39	J	101	DGD	O3D-C3D-C4D	-2.51	104.55	110.35
42	11	316	A86	C41-C32-C31	-2.51	108.23	110.47
42	14	316	A86	C3-C4-C5	-2.51	118.34	123.47
42	17	312	A86	C20-C19-C18	-2.51	107.79	112.75
42	17	316	A86	C3-C4-C5	-2.51	118.34	123.47
30	13	305	CLA	O2D-CGD-CBD	2.51	115.72	111.27
32	H	101	BCR	C37-C22-C21	-2.51	119.41	122.92
42	18	315	A86	C40-C32-C31	-2.51	108.23	110.47
42	14	312	A86	C25-C24-C1	-2.50	119.38	126.42
36	W	101	LMG	O1-C1-C2	-2.50	104.39	108.30
30	20	202	CLA	O2D-CGD-O1D	-2.50	118.94	123.84
39	j	101	DGD	O3D-C3D-C4D	-2.50	104.56	110.35
32	F	101	BCR	C7-C8-C9	-2.50	122.45	126.23
42	19	311	A86	C9-C10-C11	-2.50	119.25	126.61
30	17	305	CLA	CAA-C2A-C3A	-2.50	105.93	112.78
30	11	307	CLA	C2A-C1A-CHA	2.50	128.23	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	14	309	CLA	C2A-C1A-CHA	2.50	128.23	123.86
42	12	316	A86	C20-C19-C18	-2.50	107.80	112.75
42	12	315	A86	C25-C24-C1	-2.50	119.39	126.42
36	D	408	LMG	O6-C1-O1	-2.50	104.05	109.97
30	W	103	CLA	CHB-C4A-NA	2.50	127.97	124.51
30	c	503	CLA	C2A-C1A-CHA	2.50	128.23	123.86
30	14	304	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
42	13	314	A86	C40-C32-C31	-2.50	108.24	110.47
42	18	313	A86	C25-C24-C1	-2.50	119.40	126.42
30	c	506	CLA	O2D-CGD-CBD	2.50	115.70	111.27
30	17	305	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
42	16	313	A86	C3-C4-C5	-2.50	118.36	123.47
32	C	515	BCR	C29-C30-C25	2.50	114.32	110.48
42	13	312	A86	C20-C19-C18	-2.49	107.81	112.75
42	16	310	A86	C10-C9-C8	-2.49	115.43	123.22
42	15	313	A86	C40-C32-C31	-2.49	108.24	110.47
30	19	301	CLA	CHB-C4A-NA	2.49	127.96	124.51
42	15	311	A86	C20-C19-C18	-2.49	107.82	112.75
42	14	312	A86	C7-C6-C8	2.49	122.00	118.08
42	12	318	A86	C40-C32-C31	-2.49	108.24	110.47
30	12	306	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
42	15	311	A86	C25-C24-C1	-2.49	119.41	126.42
30	18	309	CLA	C1B-CHB-C4A	-2.49	125.18	130.12
42	14	315	A86	C40-C32-C31	-2.49	108.24	110.47
42	11	311	A86	C25-C24-C1	-2.49	119.42	126.42
30	17	301	CLA	CAA-C2A-C3A	-2.49	105.96	112.78
30	19	309	CLA	O2D-CGD-O1D	-2.49	118.97	123.84
39	C	516	DGD	O3D-C3D-C4D	-2.49	104.59	110.35
30	c	513	CLA	O2D-CGD-O1D	-2.49	118.97	123.84
36	d	410	LMG	O6-C1-O1	-2.49	104.08	109.97
36	b	618	LMG	O6-C1-O1	-2.49	104.08	109.97
30	C	513	CLA	O2D-CGD-O1D	-2.49	118.97	123.84
30	21	304	CLA	O2D-CGD-O1D	-2.48	118.98	123.84
42	15	316	A86	C12-C11-C13	2.48	120.19	116.02
30	b	612	CLA	C1B-CHB-C4A	-2.48	125.20	130.12
42	17	311	A86	C4-C3-C2	-2.48	118.39	123.47
30	16	306	CLA	CMB-C2B-C3B	2.48	129.32	124.68
30	12	308	CLA	CBA-CAA-C2A	-2.48	106.53	113.86
42	21	313	A86	C4-C5-C6	-2.48	123.77	127.31
30	c	510	CLA	CAA-C2A-C3A	-2.48	105.98	112.78
30	16	304	CLA	CAA-C2A-C3A	-2.48	105.98	112.78
30	20	203	CLA	O2D-CGD-O1D	-2.48	118.99	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	15	310	A86	C7-C6-C8	2.48	121.99	118.08
42	18	314	A86	C20-C19-C18	-2.48	107.84	112.75
31	D	403	PHO	O2D-CGD-O1D	-2.48	118.99	123.84
30	B	606	CLA	CHC-C1C-NC	2.48	127.97	124.20
30	11	302	CLA	O2D-CGD-O1D	-2.48	118.99	123.84
30	13	303	CLA	O2D-CGD-O1D	-2.48	118.99	123.84
42	12	319	A86	C3-C4-C5	-2.48	118.40	123.47
42	16	311	A86	C20-C19-C18	-2.48	107.84	112.75
42	21	313	A86	C20-C19-C18	-2.48	107.84	112.75
30	16	302	CLA	C1-C2-C3	-2.48	121.76	126.04
30	b	604	CLA	C3C-C4C-NC	-2.48	107.79	110.57
30	b	606	CLA	CHD-C1D-ND	-2.48	122.18	124.45
42	16	311	A86	C25-C24-C1	-2.48	119.46	126.42
42	14	313	A86	C25-C24-C1	-2.48	119.46	126.42
36	Q	301	LMG	C9-C8-C7	-2.48	105.93	111.79
32	B	616	BCR	C27-C26-C25	2.48	126.33	122.73
32	c	515	BCR	C7-C8-C9	-2.48	122.49	126.23
30	C	510	CLA	CAA-C2A-C3A	-2.48	106.00	112.78
42	11	311	A86	C20-C19-C18	-2.48	107.85	112.75
42	20	201	A86	O1-C15-C14	2.48	118.18	113.21
30	18	312	CLA	O2D-CGD-O1D	-2.48	119.00	123.84
30	B	612	CLA	C1B-CHB-C4A	-2.48	125.21	130.12
31	A	403	PHO	CAA-CBA-CGA	-2.47	106.02	113.25
32	C	518	BCR	C15-C14-C13	-2.47	123.78	127.31
42	13	312	A86	C25-C24-C1	-2.47	119.46	126.42
42	20	213	A86	C7-C6-C8	2.47	121.98	118.08
30	11	304	CLA	CBA-CAA-C2A	-2.47	106.56	113.86
42	18	314	A86	C25-C24-C1	-2.47	119.47	126.42
30	14	304	CLA	O2D-CGD-O1D	-2.47	119.00	123.84
30	14	306	CLA	CBA-CAA-C2A	-2.47	106.56	113.86
30	16	302	CLA	CMB-C2B-C3B	2.47	129.31	124.68
30	18	310	CLA	CMB-C2B-C1B	-2.47	124.66	128.46
42	15	315	A86	C41-C32-C31	-2.47	108.26	110.47
31	d	403	PHO	CAA-CBA-CGA	-2.47	106.03	113.25
42	11	310	A86	C7-C6-C8	2.47	121.97	118.08
42	12	315	A86	C7-C6-C8	2.47	121.97	118.08
30	18	304	CLA	C2A-C1A-CHA	2.47	128.18	123.86
30	b	622	CLA	C1B-CHB-C4A	-2.47	125.23	130.12
30	D	405	CLA	O2D-CGD-O1D	-2.47	119.01	123.84
30	D	405	CLA	CHB-C4A-NA	2.47	127.92	124.51
42	13	315	A86	C41-C32-C31	-2.47	108.26	110.47
30	A	404	CLA	CAA-C2A-C3A	-2.46	106.03	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	17	303	CLA	O2D-CGD-O1D	-2.46	119.02	123.84
39	c	517	DGD	O3D-C3D-C4D	-2.46	104.65	110.35
42	12	316	A86	C25-C24-C1	-2.46	119.50	126.42
30	13	305	CLA	CBA-CAA-C2A	-2.46	106.59	113.86
36	B	619	LMG	O6-C1-O1	-2.46	104.14	109.97
30	C	503	CLA	C2A-C1A-CHA	2.46	128.16	123.86
35	L	102	LHG	C11-C10-C9	-2.46	101.93	114.42
42	20	210	A86	C26-C25-C24	-2.46	115.54	123.22
30	C	513	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
30	12	306	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
30	15	309	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
39	J	101	DGD	O3E-C3E-C2E	-2.46	104.66	110.35
42	15	316	A86	C41-C32-C31	-2.46	108.27	110.47
30	16	304	CLA	O2D-CGD-O1D	-2.46	119.03	123.84
30	16	304	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
42	14	312	A86	C10-C9-C8	-2.46	115.55	123.22
30	c	514	CLA	CAA-C2A-C3A	-2.46	106.05	112.78
42	11	313	A86	C40-C32-C31	-2.45	108.28	110.47
30	b	606	CLA	CHC-C1C-NC	2.45	127.93	124.20
42	17	312	A86	C25-C24-C1	-2.45	119.52	126.42
31	d	404	PHO	CMC-C2C-C3C	2.45	129.57	124.94
42	21	312	A86	C40-C32-C31	-2.45	108.28	110.47
42	13	311	A86	C10-C9-C8	-2.45	115.56	123.22
35	l	102	LHG	C11-C10-C9	-2.45	101.98	114.42
30	17	303	CLA	C1-C2-C3	-2.45	121.80	126.04
30	13	305	CLA	C2D-C1D-ND	-2.45	108.30	110.10
42	12	315	A86	C10-C9-C8	-2.45	115.57	123.22
42	11	310	A86	C10-C9-C8	-2.45	115.57	123.22
32	m	103	BCR	C27-C26-C25	2.45	126.29	122.73
39	j	101	DGD	O3E-C3E-C2E	-2.45	104.68	110.35
42	21	314	A86	C7-C6-C8	2.45	121.94	118.08
30	C	514	CLA	CAA-C2A-C3A	-2.45	106.07	112.78
42	15	310	A86	C10-C9-C8	-2.45	115.58	123.22
42	20	212	A86	C9-C10-C11	-2.45	119.41	126.61
32	h	101	BCR	C37-C22-C21	-2.45	119.50	122.92
42	18	313	A86	C10-C9-C8	-2.45	115.58	123.22
42	13	315	A86	C12-C11-C13	2.45	120.13	116.02
30	15	305	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
42	17	311	A86	C17-C16-C15	2.45	111.66	109.16
32	Z	101	BCR	C7-C8-C9	-2.45	122.54	126.23
30	a	403	CLA	CAA-C2A-C3A	-2.44	106.08	112.78
32	c	521	BCR	C15-C14-C13	-2.44	123.82	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	A	404	CLA	CMB-C2B-C1B	-2.44	124.71	128.46
30	C	504	CLA	O2A-CGA-O1A	-2.44	117.43	123.59
30	20	202	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
36	B	619	LMG	O3-C3-C2	-2.44	104.71	110.35
33	b	620	SQD	O48-C23-O10	-2.44	117.44	123.59
33	A	406	SQD	O7-S-C6	2.44	109.84	106.94
42	17	314	A86	C40-C32-C31	-2.44	108.29	110.47
30	20	205	CLA	CHB-C4A-NA	2.44	127.89	124.51
30	d	406	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
33	B	621	SQD	O48-C23-O10	-2.44	117.44	123.59
30	16	303	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
37	12	302	LMU	O5B-C1B-C2B	2.44	115.51	110.35
30	13	307	CLA	C2A-C1A-CHA	2.44	128.12	123.86
30	19	307	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
30	b	609	CLA	C2A-C1A-CHA	2.44	128.12	123.86
36	c	519	LMG	C9-C8-C7	-2.44	106.03	111.79
30	C	514	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
30	c	503	CLA	C1D-ND-C4D	2.44	108.06	106.33
42	19	312	A86	C41-C32-C31	-2.43	108.29	110.47
36	c	519	LMG	C40-C39-C38	-2.43	102.07	114.42
36	b	618	LMG	O3-C3-C2	-2.43	104.72	110.35
42	13	301	A86	C12-C11-C13	2.43	120.11	116.02
30	c	504	CLA	O2A-CGA-O1A	-2.43	117.45	123.59
42	11	316	A86	C12-C11-C13	2.43	120.10	116.02
31	D	403	PHO	CMC-C2C-C3C	2.43	129.52	124.94
42	17	313	A86	C9-C10-C11	-2.43	119.47	126.61
42	14	314	A86	C9-C10-C11	-2.43	119.47	126.61
42	15	312	A86	C9-C10-C11	-2.43	119.47	126.61
30	B	623	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
42	19	310	A86	C34-O4-C38	-2.43	113.37	117.90
30	21	306	CLA	CBA-CAA-C2A	-2.43	106.70	113.86
42	18	302	A86	C12-C11-C13	2.43	120.10	116.02
30	c	505	CLA	CHD-C1D-ND	-2.43	122.22	124.45
40	d	405	PL9	C20-C19-C21	2.43	119.35	115.27
30	11	306	CLA	C2A-C1A-CHA	2.42	128.10	123.86
32	Y	101	BCR	C7-C8-C9	-2.42	122.57	126.23
30	14	308	CLA	C2A-C1A-CHA	2.42	128.10	123.86
42	15	315	A86	C12-C11-C13	2.42	120.09	116.02
35	A	408	LHG	C11-C10-C9	-2.42	102.12	114.42
36	B	620	LMG	O1-C1-C2	-2.42	104.52	108.30
30	B	615	CLA	CHA-C1A-NA	-2.42	120.85	126.40
30	14	309	CLA	CHA-C1A-NA	-2.42	120.85	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	13	308	CLA	CHA-C1A-NA	-2.42	120.85	126.40
31	d	404	PHO	O2D-CGD-O1D	-2.42	119.10	123.84
30	12	307	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
30	B	604	CLA	C3C-C4C-NC	-2.42	107.86	110.57
30	c	508	CLA	CHA-C1A-NA	-2.42	120.86	126.40
32	H	101	BCR	C11-C10-C9	-2.42	123.86	127.31
30	21	305	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
32	h	101	BCR	C11-C10-C9	-2.42	123.86	127.31
30	14	306	CLA	C2D-C1D-ND	-2.42	108.32	110.10
30	b	612	CLA	CMD-C2D-C1D	-2.42	120.45	124.71
42	13	313	A86	C9-C10-C11	-2.42	119.50	126.61
30	19	306	CLA	CHB-C4A-NA	2.42	127.86	124.51
30	B	612	CLA	CMD-C2D-C1D	-2.42	120.45	124.71
30	B	605	CLA	C3C-C4C-NC	-2.42	107.86	110.57
30	11	303	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
30	b	615	CLA	CHA-C1A-NA	-2.42	120.86	126.40
30	19	304	CLA	O2D-CGD-O1D	-2.42	119.11	123.84
36	Q	301	LMG	C40-C39-C38	-2.41	102.17	114.42
30	13	304	CLA	C1B-CHB-C4A	-2.41	125.33	130.12
36	D	408	LMG	C6-C5-C4	-2.41	107.35	113.00
30	14	305	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
32	c	516	BCR	C7-C8-C9	-2.41	122.59	126.23
40	D	407	PL9	C36-C34-C33	-2.41	116.23	121.12
30	18	310	CLA	CHB-C4A-NA	2.41	127.85	124.51
42	11	312	A86	C9-C10-C11	-2.41	119.51	126.61
42	21	312	A86	C35-C34-C33	2.41	114.09	109.88
42	17	312	A86	C40-C32-C31	-2.41	108.31	110.47
36	d	410	LMG	C6-C5-C4	-2.41	107.35	113.00
42	14	312	A86	C23-C16-C22	-2.41	103.81	107.37
42	12	304	A86	C12-C11-C13	2.41	120.07	116.02
42	12	317	A86	C9-C10-C11	-2.41	119.52	126.61
30	16	309	CLA	O2D-CGD-O1D	-2.41	119.13	123.84
33	a	405	SQD	C1-C2-C3	-2.41	104.98	110.00
35	a	407	LHG	C11-C10-C9	-2.41	102.19	114.42
39	c	518	DGD	O3E-C3E-C2E	-2.41	104.78	110.35
40	D	404	PL9	C20-C19-C21	2.41	119.32	115.27
30	c	513	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
30	C	505	CLA	CHD-C1D-ND	-2.41	122.24	124.45
42	21	313	A86	C34-O4-C38	-2.41	113.41	117.90
32	H	101	BCR	C15-C14-C13	-2.40	123.88	127.31
36	Q	301	LMG	C38-C37-C36	-2.40	102.23	114.42
30	13	306	CLA	C1B-CHB-C4A	-2.40	125.36	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	L	101	LHG	O8-C23-C24	2.40	119.45	111.91
30	12	310	CLA	C2A-C1A-CHA	2.40	128.06	123.86
30	16	302	CLA	C2A-C1A-CHA	2.40	128.06	123.86
42	21	312	A86	C7-C6-C8	2.40	121.86	118.08
30	c	514	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
39	c	518	DGD	C3D-C4D-C5D	-2.40	105.96	110.24
30	16	303	CLA	CHA-C1A-NA	-2.40	120.90	126.40
33	A	406	SQD	C1-C2-C3	-2.40	105.00	110.00
32	F	101	BCR	C35-C13-C14	-2.40	119.56	122.92
39	c	517	DGD	O6E-C5E-C6E	-2.40	100.47	106.44
30	20	205	CLA	C3A-C2A-C1A	2.40	104.93	101.34
30	B	609	CLA	C2A-C1A-CHA	2.40	128.05	123.86
30	c	512	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
39	C	517	DGD	O3E-C3E-C2E	-2.40	104.81	110.35
36	c	519	LMG	C38-C37-C36	-2.40	102.26	114.42
40	d	408	PL9	C36-C34-C33	-2.40	116.27	121.12
42	13	312	A86	C40-C32-C31	-2.40	108.33	110.47
42	13	311	A86	C23-C16-C22	-2.40	103.84	107.37
30	b	604	CLA	O2A-CGA-O1A	-2.39	117.55	123.59
30	17	301	CLA	CMB-C2B-C3B	2.39	129.16	124.68
35	d	409	LHG	O8-C23-C24	2.39	119.42	111.91
32	f	101	BCR	C35-C13-C14	-2.39	119.57	122.92
36	1	101	LMG	C1-C2-C3	-2.39	105.01	110.00
30	C	506	CLA	CMC-C2C-C1C	-2.39	121.39	125.04
30	20	207	CLA	C2A-C1A-CHA	2.39	128.04	123.86
42	16	312	A86	C9-C10-C11	-2.39	119.57	126.61
33	B	621	SQD	C4-C3-C2	2.39	115.00	110.82
42	15	310	A86	C23-C16-C22	-2.39	103.84	107.37
39	C	516	DGD	CDB-CCB-CBB	-2.39	102.28	114.42
30	B	602	CLA	CHD-C1D-ND	-2.39	122.26	124.45
36	d	410	LMG	O3-C3-C2	-2.39	104.82	110.35
42	17	311	A86	C12-C11-C13	2.39	120.04	116.02
30	15	301	CLA	C1-C2-C3	-2.39	121.91	126.04
30	15	307	CLA	CAA-C2A-C1A	2.39	119.80	111.97
42	18	313	A86	C23-C16-C22	-2.39	103.85	107.37
30	11	305	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
42	21	313	A86	C28-C27-C26	-2.39	119.58	122.92
42	19	310	A86	C10-C9-C8	-2.39	115.77	123.22
42	18	302	A86	C41-C32-C31	-2.39	108.33	110.47
36	D	408	LMG	C40-C39-C38	-2.39	102.30	114.42
42	12	315	A86	C23-C16-C22	-2.39	103.85	107.37
30	20	206	CLA	O2D-CGD-O1D	-2.39	119.17	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	20	201	A86	C7-C6-C8	2.39	121.84	118.08
30	c	510	CLA	O2A-CGA-O1A	-2.39	117.57	123.59
36	D	408	LMG	O3-C3-C2	-2.38	104.84	110.35
30	15	307	CLA	O2D-CGD-O1D	-2.38	119.18	123.84
30	b	612	CLA	CMD-C2D-C3D	2.38	133.09	127.61
30	12	311	CLA	CHA-C1A-NA	-2.38	120.94	126.40
30	A	402	CLA	CHB-C4A-NA	2.38	127.81	124.51
30	18	306	CLA	C2A-C1A-CHA	2.38	128.02	123.86
30	b	611	CLA	CHB-C4A-NA	2.38	127.80	124.51
42	18	314	A86	C10-C9-C8	-2.38	115.79	123.22
32	h	101	BCR	C15-C14-C13	-2.38	123.91	127.31
30	20	208	CLA	C2A-C1A-CHA	2.38	128.02	123.86
30	C	512	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
30	18	305	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
39	C	517	DGD	C3D-C4D-C5D	-2.38	106.00	110.24
30	18	307	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
30	19	306	CLA	O2A-CGA-O1A	-2.38	117.37	123.30
30	11	307	CLA	CHA-C1A-NA	-2.38	120.95	126.40
30	21	302	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
33	b	620	SQD	C4-C3-C2	2.38	114.97	110.82
32	c	515	BCR	C33-C5-C6	-2.38	121.86	124.53
39	c	517	DGD	CDB-CCB-CBB	-2.38	102.36	114.42
30	17	304	CLA	CHA-C1A-NA	-2.38	120.95	126.40
32	c	520	BCR	C7-C8-C9	-2.38	122.64	126.23
30	c	506	CLA	CMC-C2C-C1C	-2.38	121.42	125.04
36	d	410	LMG	C40-C39-C38	-2.38	102.36	114.42
35	A	408	LHG	C18-C17-C16	-2.37	102.37	114.42
30	12	309	CLA	C1B-CHB-C4A	-2.37	125.41	130.12
33	b	620	SQD	C1-O5-C5	2.37	118.35	113.69
36	m	102	LMG	O6-C1-O1	-2.37	104.35	109.97
30	21	309	CLA	CHD-C1D-ND	-2.37	122.27	124.45
42	11	310	A86	C23-C16-C22	-2.37	103.87	107.37
30	B	615	CLA	O2A-CGA-O1A	-2.37	117.60	123.59
42	17	302	A86	C9-C10-C11	-2.37	119.63	126.61
32	b	616	BCR	C24-C23-C22	-2.37	122.65	126.23
30	17	304	CLA	CAA-C2A-C1A	2.37	119.75	111.97
32	B	624	BCR	C33-C5-C6	-2.37	121.86	124.53
42	13	312	A86	C10-C9-C8	-2.37	115.81	123.22
42	14	313	A86	C10-C9-C8	-2.37	115.81	123.22
42	16	311	A86	C40-C32-C31	-2.37	108.35	110.47
30	A	404	CLA	CMB-C2B-C3B	2.37	129.11	124.68
42	17	312	A86	C10-C9-C8	-2.37	115.82	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	f	101	BCR	C16-C15-C14	-2.37	118.62	123.47
30	20	206	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
35	a	407	LHG	C18-C17-C16	-2.37	102.41	114.42
33	B	621	SQD	C1-O5-C5	2.37	118.33	113.69
36	b	619	LMG	O1-C1-C2	-2.37	104.61	108.30
32	B	618	BCR	C15-C16-C17	-2.37	118.62	123.47
30	14	307	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
30	21	307	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
30	B	604	CLA	O2A-CGA-O1A	-2.37	117.62	123.59
41	V	201	HEM	CAD-CBD-CGD	-2.37	108.51	113.60
30	b	608	CLA	CMB-C2B-C3B	2.37	129.10	124.68
32	F	101	BCR	C16-C15-C14	-2.37	118.63	123.47
36	b	619	LMG	O2-C2-C1	-2.36	104.30	110.05
36	w	101	LMG	C40-C39-C38	-2.36	102.42	114.42
42	11	311	A86	C10-C9-C8	-2.36	115.84	123.22
30	12	303	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
40	d	408	PL9	C42-C43-C44	-2.36	121.97	127.66
30	12	308	CLA	C2D-C1D-ND	-2.36	108.36	110.10
42	20	213	A86	C40-C32-C31	-2.36	108.36	110.47
30	19	309	CLA	CBC-CAC-C3C	2.36	118.94	112.43
42	21	314	A86	C40-C32-C31	-2.36	108.36	110.47
36	W	101	LMG	O2-C2-C1	-2.36	104.31	110.05
39	c	517	DGD	O5E-C6E-C5E	-2.36	103.19	111.29
30	15	308	CLA	CBA-CAA-C2A	-2.36	106.89	113.86
30	17	309	CLA	CHA-C1A-NA	-2.36	120.99	126.40
30	a	403	CLA	CMB-C2B-C3B	2.36	129.09	124.68
32	C	515	BCR	C7-C8-C9	-2.36	122.67	126.23
42	12	316	A86	C10-C9-C8	-2.36	115.86	123.22
30	c	503	CLA	C2D-C1D-ND	-2.36	108.37	110.10
42	15	311	A86	C40-C32-C31	-2.36	108.36	110.47
36	W	101	LMG	C40-C39-C38	-2.36	102.46	114.42
30	B	612	CLA	CMD-C2D-C3D	2.36	133.03	127.61
32	b	616	BCR	C30-C25-C26	-2.36	119.30	122.61
30	b	615	CLA	O2A-CGA-O1A	-2.36	117.65	123.59
30	16	301	CLA	O2D-CGD-O1D	-2.36	119.23	123.84
30	19	302	CLA	O2A-CGA-O1A	-2.35	117.43	123.30
39	C	516	DGD	O6E-C5E-C6E	-2.35	100.58	106.44
36	B	619	LMG	O1-C7-C8	-2.35	105.22	110.90
30	19	309	CLA	CAA-C2A-C1A	-2.35	104.26	111.97
42	11	316	A86	C9-C10-C11	-2.35	119.69	126.61
36	W	101	LMG	C6-C5-C4	-2.35	107.49	113.00
36	w	101	LMG	O2-C2-C1	-2.35	104.33	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	w	101	LMG	C6-C5-C4	-2.35	107.50	113.00
30	C	510	CLA	O2A-CGA-O1A	-2.35	117.66	123.59
42	15	311	A86	C10-C9-C8	-2.35	115.88	123.22
30	19	307	CLA	C11-C12-C13	-2.35	108.32	115.92
30	b	605	CLA	C3C-C4C-NC	-2.35	107.94	110.57
30	B	608	CLA	CMB-C2B-C3B	2.35	129.07	124.68
42	16	311	A86	C10-C9-C8	-2.35	115.89	123.22
30	c	507	CLA	O1D-CGD-CBD	2.35	129.29	124.48
40	D	407	PL9	O1-C4-C3	-2.35	118.13	120.72
30	b	614	CLA	C2A-C1A-CHA	2.35	127.96	123.86
30	17	306	CLA	C2A-C1A-CHA	2.35	127.96	123.86
42	12	316	A86	C40-C32-C31	-2.35	108.37	110.47
36	M	102	LMG	O6-C1-O1	-2.35	104.42	109.97
42	14	313	A86	C40-C32-C31	-2.34	108.37	110.47
36	b	619	LMG	O7-C10-O9	-2.34	118.04	123.70
30	B	613	CLA	O2D-CGD-O1D	-2.34	119.26	123.84
41	v	201	HEM	CAD-CBD-CGD	-2.34	108.56	113.60
39	j	101	DGD	CAB-C9B-C8B	-2.34	102.54	114.42
30	21	305	CLA	CAA-C2A-C3A	-2.34	106.37	112.78
32	b	617	BCR	C15-C16-C17	-2.34	118.68	123.47
42	12	304	A86	C9-C10-C11	-2.34	119.73	126.61
42	20	213	A86	C41-C32-C31	-2.34	108.38	110.47
30	b	606	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
36	B	620	LMG	O2-C2-C1	-2.34	104.37	110.05
30	21	306	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
36	B	620	LMG	O7-C10-O9	-2.34	118.06	123.70
36	B	619	LMG	C40-C39-C38	-2.34	102.57	114.42
42	13	315	A86	C9-C10-C11	-2.33	119.75	126.61
42	15	316	A86	C9-C10-C11	-2.33	119.75	126.61
30	B	606	CLA	C1B-CHB-C4A	-2.33	125.49	130.12
30	17	304	CLA	C1B-CHB-C4A	-2.33	125.50	130.12
42	13	301	A86	C9-C10-C11	-2.33	119.75	126.61
36	B	619	LMG	O1-C1-C2	-2.33	104.66	108.30
36	b	618	LMG	O1-C7-C8	-2.33	105.27	110.90
39	J	101	DGD	CAB-C9B-C8B	-2.33	102.58	114.42
32	B	617	BCR	C24-C23-C22	-2.33	122.71	126.23
30	b	611	CLA	C1-C2-C3	-2.33	122.01	126.04
36	b	618	LMG	C40-C39-C38	-2.33	102.59	114.42
30	c	509	CLA	CGD-CBD-CAD	-2.33	103.18	110.73
30	c	505	CLA	O2A-CGA-O1A	-2.33	117.71	123.59
30	12	313	CLA	CHA-C1A-NA	-2.33	121.06	126.40
42	15	315	A86	C9-C10-C11	-2.33	119.76	126.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	11	304	CLA	C2D-C1D-ND	-2.33	108.39	110.10
30	C	508	CLA	CHA-C1A-NA	-2.33	121.07	126.40
30	11	308	CLA	CHA-C1A-NA	-2.33	121.07	126.40
30	b	613	CLA	C4-C3-C5	2.33	119.19	115.27
30	b	602	CLA	CHD-C1D-ND	-2.33	122.32	124.45
30	B	614	CLA	C2A-C1A-CHA	2.33	127.92	123.86
30	20	204	CLA	CAA-C2A-C3A	-2.33	106.41	112.78
42	16	310	A86	C7-C6-C8	2.32	121.74	118.08
30	b	613	CLA	O2D-CGD-O1D	-2.32	119.30	123.84
42	18	314	A86	C40-C32-C31	-2.32	108.39	110.47
30	B	611	CLA	CHB-C4A-NA	2.32	127.72	124.51
30	c	511	CLA	O2D-CGD-O1D	-2.32	119.30	123.84
36	12	301	LMG	C1-C2-C3	-2.32	105.16	110.00
30	C	511	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
30	11	315	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
30	C	505	CLA	O2A-CGA-O1A	-2.32	117.74	123.59
30	16	305	CLA	C2A-C1A-CHA	2.32	127.91	123.86
30	12	312	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
30	c	511	CLA	CAA-C2A-C3A	-2.32	106.43	112.78
32	c	515	BCR	C27-C26-C25	2.32	126.10	122.73
39	c	517	DGD	O2D-C2D-C1D	-2.32	104.42	110.05
30	B	611	CLA	C3C-C4C-NC	-2.32	107.97	110.57
30	20	209	CLA	C2A-C1A-CHA	2.32	127.91	123.86
32	h	101	BCR	C27-C26-C25	2.32	126.09	122.73
39	C	516	DGD	O2D-C2D-C1D	-2.32	104.42	110.05
30	21	301	CLA	O2A-CGA-O1A	-2.32	117.75	123.59
36	b	618	LMG	O1-C1-C2	-2.32	104.69	108.30
30	B	611	CLA	C7-C6-C5	-2.32	107.07	113.36
30	b	611	CLA	C3C-C4C-NC	-2.32	107.97	110.57
30	14	310	CLA	CHA-C1A-NA	-2.32	121.10	126.40
32	Z	101	BCR	C33-C5-C6	-2.31	121.93	124.53
30	13	309	CLA	CHA-C1A-NA	-2.31	121.10	126.40
30	C	509	CLA	CGD-CBD-CAD	-2.31	103.24	110.73
30	c	504	CLA	O2D-CGD-O1D	-2.31	119.32	123.84
30	15	302	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
40	D	407	PL9	C11-C9-C8	-2.31	116.44	121.12
40	D	407	PL9	C42-C43-C44	-2.31	122.09	127.66
30	B	611	CLA	C1-C2-C3	-2.31	122.05	126.04
30	C	504	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
36	Q	301	LMG	O3-C3-C2	-2.31	105.01	110.35
30	21	308	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
40	d	408	PL9	C11-C9-C8	-2.31	116.44	121.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	L	103	SQD	O8-S-C6	2.31	109.42	105.74
30	14	302	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
39	C	516	DGD	O5E-C6E-C5E	-2.31	103.38	111.29
36	D	408	LMG	C38-C37-C36	-2.31	102.72	114.42
30	b	611	CLA	C7-C6-C5	-2.31	107.10	113.36
32	Z	101	BCR	C27-C26-C25	2.31	126.08	122.73
32	F	101	BCR	C15-C16-C17	-2.31	118.75	123.47
36	c	519	LMG	O3-C3-C2	-2.31	105.02	110.35
30	18	301	CLA	CAA-C2A-C3A	-2.31	106.47	112.78
30	B	613	CLA	C2A-C1A-CHA	2.30	127.89	123.86
30	a	402	CLA	CHB-C4A-NA	2.30	127.70	124.51
30	C	503	CLA	C1D-ND-C4D	2.30	107.97	106.33
30	C	511	CLA	O2D-CGD-O1D	-2.30	119.33	123.84
42	18	302	A86	C9-C10-C11	-2.30	119.84	126.61
30	15	303	CLA	O2A-CGA-O1A	-2.30	117.78	123.59
30	b	614	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
30	19	308	CLA	CAA-C2A-C3A	-2.30	106.47	112.78
30	B	614	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
30	c	511	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
42	21	314	A86	C41-C32-C31	-2.30	108.41	110.47
30	20	207	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
30	b	607	CLA	CAA-C2A-C3A	-2.30	106.48	112.78
30	C	504	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
30	C	503	CLA	C2D-C1D-ND	-2.30	108.41	110.10
42	11	311	A86	C40-C32-C31	-2.30	108.42	110.47
30	b	606	CLA	C3C-C4C-NC	-2.30	108.00	110.57
36	d	410	LMG	C38-C37-C36	-2.30	102.77	114.42
35	d	409	LHG	C18-C17-C16	-2.30	102.77	114.42
42	17	316	A86	C-C1-C24	2.30	121.69	118.08
40	d	408	PL9	O1-C4-C3	-2.30	118.19	120.72
30	20	209	CLA	O2A-CGA-O1A	-2.30	117.80	123.59
30	c	504	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
30	C	511	CLA	CAA-C2A-C3A	-2.29	106.50	112.78
32	f	101	BCR	C15-C16-C17	-2.29	118.78	123.47
40	D	404	PL9	C36-C34-C33	-2.29	116.48	121.12
30	B	602	CLA	C3C-C4C-NC	-2.29	108.00	110.57
30	z	101	CLA	C2A-C1A-CHA	2.29	127.87	123.86
30	16	309	CLA	C2D-C1D-ND	-2.29	108.41	110.10
39	H	102	DGD	CBB-CAB-C9B	-2.29	102.79	114.42
32	b	623	BCR	C33-C5-C6	-2.29	121.95	124.53
42	12	304	A86	C35-C34-C33	2.29	113.87	109.88
35	L	101	LHG	C18-C17-C16	-2.29	102.79	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	B	607	CLA	CAA-C2A-C3A	-2.29	106.50	112.78
31	A	403	PHO	CBA-CAA-C2A	-2.29	107.12	113.81
32	B	617	BCR	C30-C25-C26	-2.29	119.39	122.61
30	C	507	CLA	O1D-CGD-CBD	2.29	129.17	124.48
30	B	601	CLA	C2A-C1A-CHA	2.29	127.86	123.86
30	19	304	CLA	CAA-C2A-C3A	-2.29	106.51	112.78
30	B	606	CLA	C3C-C4C-NC	-2.29	108.00	110.57
42	21	312	A86	C10-C9-C8	-2.29	116.08	123.22
39	h	102	DGD	CBB-CAB-C9B	-2.29	102.81	114.42
30	B	603	CLA	O2A-CGA-O1A	-2.29	117.82	123.59
30	15	308	CLA	O2D-CGD-O1D	-2.29	119.37	123.84
30	b	622	CLA	C1-C2-C3	-2.29	122.09	126.04
30	16	304	CLA	O2A-CGA-O1A	-2.29	117.83	123.59
42	21	310	A86	C7-C6-C8	2.28	121.67	118.08
36	B	620	LMG	C6-C5-C4	-2.28	107.66	113.00
30	B	613	CLA	C4-C3-C5	2.28	119.11	115.27
36	b	619	LMG	C6-C5-C4	-2.28	107.66	113.00
30	20	205	CLA	C2A-C1A-CHA	2.28	127.84	123.86
35	l	102	LHG	C18-C17-C16	-2.28	102.86	114.42
42	12	317	A86	C7-C6-C8	2.28	121.67	118.08
30	20	208	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
42	11	314	A86	C-C1-C24	2.28	121.66	118.08
30	c	503	CLA	CHA-C1A-NA	-2.28	121.19	126.40
42	15	315	A86	C35-C34-C33	2.28	113.85	109.88
31	A	403	PHO	CMC-C2C-C3C	2.27	129.23	124.94
30	c	507	CLA	O2A-CGA-O1A	-2.27	117.86	123.59
35	L	102	LHG	C18-C17-C16	-2.27	102.89	114.42
42	16	313	A86	C-C1-C24	2.27	121.66	118.08
32	h	101	BCR	C24-C23-C22	-2.27	122.80	126.23
30	b	613	CLA	C2A-C1A-CHA	2.27	127.83	123.86
30	C	504	CLA	CAA-C2A-C3A	-2.27	106.57	112.78
30	b	603	CLA	O2A-CGA-O1A	-2.27	117.87	123.59
31	d	403	PHO	CBA-CAA-C2A	-2.27	107.19	113.81
30	b	602	CLA	C3C-C4C-NC	-2.26	108.03	110.57
30	B	615	CLA	C2A-C1A-CHA	2.26	127.82	123.86
30	c	504	CLA	CAA-C2A-C3A	-2.26	106.58	112.78
30	14	308	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
30	C	507	CLA	O2A-CGA-O1A	-2.26	117.88	123.59
42	15	316	A86	C35-C34-C33	2.26	113.82	109.88
32	a	404	BCR	C35-C13-C14	-2.26	119.76	122.92
42	13	313	A86	C7-C6-C8	2.26	121.64	118.08
30	b	601	CLA	C2A-C1A-CHA	2.26	127.81	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	11	306	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
30	c	508	CLA	C2D-C1D-ND	-2.26	108.44	110.10
30	19	301	CLA	CHD-C1D-ND	-2.26	122.38	124.45
42	12	319	A86	C-C1-C24	2.26	121.63	118.08
30	C	519	CLA	C2A-C1A-CHA	2.26	127.81	123.86
30	18	301	CLA	O2D-CGD-O1D	-2.26	119.43	123.84
40	d	405	PL9	C36-C34-C33	-2.26	116.55	121.12
42	17	311	A86	C34-O4-C38	-2.26	113.69	117.90
36	b	618	LMG	C38-C37-C36	-2.25	102.98	114.42
42	16	312	A86	C7-C6-C8	2.25	121.63	118.08
33	l	101	SQD	O8-S-C6	2.25	109.33	105.74
42	14	301	A86	C-C1-C24	2.25	121.62	118.08
30	14	309	CLA	O2A-CGA-O1A	-2.25	117.91	123.59
30	C	503	CLA	CHA-C1A-NA	-2.25	121.24	126.40
30	c	510	CLA	C16-C15-C13	-2.25	108.64	115.92
35	b	621	LHG	C18-C17-C16	-2.25	103.00	114.42
42	11	316	A86	C35-C34-C33	2.25	113.80	109.88
37	B	625	LMU	C1B-O5B-C5B	2.25	118.11	113.69
36	12	301	LMG	O2-C2-C3	-2.25	105.15	110.35
42	15	314	A86	C-C1-C24	2.25	121.62	118.08
30	16	305	CLA	C2D-C1D-ND	-2.25	108.45	110.10
39	C	517	DGD	O6E-C1E-O5D	-2.25	104.65	109.97
40	D	404	PL9	C37-C38-C39	-2.25	122.25	127.66
30	b	604	CLA	CHA-C1A-NA	-2.25	121.26	126.40
30	b	622	CLA	CHA-C1A-NA	-2.24	121.26	126.40
30	W	102	CLA	CAA-CBA-CGA	-2.24	106.70	113.25
31	d	403	PHO	CMC-C2C-C3C	2.24	129.17	124.94
42	13	301	A86	C35-C34-C33	2.24	113.79	109.88
30	21	308	CLA	C2A-C1A-CHA	2.24	127.78	123.86
30	C	510	CLA	C16-C15-C13	-2.24	108.67	115.92
30	15	306	CLA	O2D-CGD-CBD	2.24	115.25	111.27
42	14	316	A86	C-C1-C24	2.24	121.61	118.08
30	17	305	CLA	O2A-C1-C2	-2.24	102.74	108.64
35	B	622	LHG	C18-C17-C16	-2.24	103.05	114.42
30	B	623	CLA	CMD-C2D-C1D	-2.24	120.77	124.71
30	b	615	CLA	C2A-C1A-CHA	2.24	127.78	123.86
32	A	405	BCR	C35-C13-C14	-2.24	119.79	122.92
42	18	302	A86	C35-C34-C33	2.24	113.78	109.88
30	11	307	CLA	O2A-CGA-O1A	-2.24	117.94	123.59
30	b	602	CLA	O2D-CGD-CBD	2.24	115.25	111.27
32	c	515	BCR	C15-C14-C13	-2.24	124.12	127.31
42	21	310	A86	O1-C15-C14	-2.24	108.72	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	J	101	DGD	C3D-C4D-C5D	-2.24	106.25	110.24
30	b	609	CLA	O1D-CGD-CBD	2.24	129.06	124.48
30	w	102	CLA	CAA-CBA-CGA	-2.24	106.72	113.25
42	17	313	A86	C7-C6-C8	2.24	121.60	118.08
31	D	403	PHO	C1-C2-C3	-2.24	122.18	126.04
32	b	623	BCR	C27-C26-C25	2.23	125.97	122.73
30	21	309	CLA	O2A-CGA-O1A	-2.23	117.73	123.30
30	B	623	CLA	CMD-C2D-C3D	2.23	132.75	127.61
30	C	505	CLA	CHC-C1C-NC	2.23	127.59	124.20
36	B	619	LMG	C38-C37-C36	-2.23	103.10	114.42
30	20	202	CLA	C1-C2-C3	-2.23	122.18	126.04
42	21	312	A86	C19-C18-C17	-2.23	106.47	110.77
42	21	310	A86	C19-C18-C17	-2.23	106.47	110.77
32	m	103	BCR	C33-C5-C6	-2.23	122.02	124.53
30	13	308	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
30	20	204	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
30	C	503	CLA	CHC-C1C-NC	2.23	127.58	124.20
42	21	311	A86	C7-C6-C8	2.23	121.59	118.08
30	19	307	CLA	C2D-C1D-ND	-2.23	108.46	110.10
30	B	602	CLA	O2D-CGD-CBD	2.23	115.23	111.27
30	B	608	CLA	O2D-CGD-CBD	2.23	115.23	111.27
40	d	405	PL9	C37-C38-C39	-2.23	122.30	127.66
39	C	517	DGD	C3G-C2G-C1G	-2.23	106.52	111.79
42	19	311	A86	C26-C25-C24	-2.23	116.27	123.22
32	F	101	BCR	C27-C26-C25	2.23	125.96	122.73
42	15	312	A86	C7-C6-C8	2.23	121.58	118.08
37	12	302	LMU	C1B-O5B-C5B	2.23	118.06	113.69
32	b	617	BCR	C11-C10-C9	-2.22	124.14	127.31
30	21	306	CLA	O2A-CGA-O1A	-2.22	117.98	123.59
30	B	605	CLA	C2D-C1D-ND	-2.22	108.47	110.10
39	C	517	DGD	CAB-C9B-C8B	-2.22	103.14	114.42
30	12	310	CLA	C1B-CHB-C4A	-2.22	125.71	130.12
30	18	309	CLA	CAA-C2A-C1A	2.22	119.26	111.97
30	13	309	CLA	O2D-CGD-O1D	-2.22	119.49	123.84
32	H	101	BCR	C24-C23-C22	-2.22	122.88	126.23
36	B	620	LMG	C38-C37-C36	-2.22	103.15	114.42
42	13	315	A86	C35-C34-C33	2.22	113.75	109.88
30	21	305	CLA	O2D-CGD-O1D	-2.22	119.50	123.84
42	11	312	A86	C7-C6-C8	2.22	121.57	118.08
33	L	103	SQD	C44-O6-C1	2.22	118.07	113.74
39	c	518	DGD	O6E-C1E-O5D	-2.22	104.72	109.97
30	19	301	CLA	CAA-CBA-CGA	-2.22	106.78	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	20	211	A86	C7-C6-C8	2.22	121.57	118.08
42	20	201	A86	C7-C6-C5	-2.22	119.82	122.92
32	H	101	BCR	C27-C26-C25	2.22	125.95	122.73
39	C	517	DGD	O5D-C6D-C5D	-2.22	104.95	109.05
30	19	309	CLA	O2A-CGA-O1A	-2.22	117.78	123.30
30	c	513	CLA	O2A-CGA-O1A	-2.21	118.00	123.59
30	B	609	CLA	O2A-CGA-O1A	-2.21	118.00	123.59
30	B	609	CLA	O1D-CGD-CBD	2.21	129.01	124.48
30	b	609	CLA	O2A-CGA-O1A	-2.21	118.00	123.59
30	c	505	CLA	CHC-C1C-NC	2.21	127.56	124.20
36	b	619	LMG	C38-C37-C36	-2.21	103.19	114.42
32	c	520	BCR	C29-C30-C25	2.21	113.89	110.48
32	B	618	BCR	C11-C10-C9	-2.21	124.15	127.31
30	17	308	CLA	O2D-CGD-O1D	-2.21	119.52	123.84
41	f	102	HEM	C4A-C3A-C2A	2.21	108.53	107.00
42	21	311	A86	O1-C15-C14	-2.21	108.78	113.21
30	W	102	CLA	CAA-C2A-C3A	-2.21	106.73	112.78
42	14	314	A86	C7-C6-C8	2.21	121.56	118.08
30	13	307	CLA	C1B-CHB-C4A	-2.21	125.74	130.12
31	d	404	PHO	C1-C2-C3	-2.21	122.22	126.04
30	15	306	CLA	CHD-C1D-ND	-2.21	122.43	124.45
33	A	406	SQD	O48-C23-O10	-2.21	118.02	123.59
30	11	302	CLA	CHA-C1A-NA	-2.21	121.35	126.40
30	15	303	CLA	CHD-C1D-ND	-2.21	122.43	124.45
30	B	611	CLA	O2A-CGA-O1A	-2.21	118.03	123.59
30	18	305	CLA	CHD-C1D-ND	-2.20	122.43	124.45
30	12	306	CLA	CHA-C1A-NA	-2.20	121.35	126.40
30	14	310	CLA	O2D-CGD-O1D	-2.20	119.53	123.84
42	16	310	A86	C8-C6-C5	-2.20	115.56	118.94
30	B	604	CLA	CHA-C1A-NA	-2.20	121.35	126.40
40	d	408	PL9	C36-C37-C38	-2.20	104.64	111.88
30	d	401	CLA	O2D-CGD-CBD	2.20	115.18	111.27
30	b	608	CLA	O2D-CGD-CBD	2.20	115.18	111.27
30	17	307	CLA	O2D-CGD-O1D	-2.20	119.53	123.84
30	11	308	CLA	O2D-CGD-O1D	-2.20	119.53	123.84
30	18	306	CLA	C3A-C2A-C1A	2.20	104.63	101.34
42	16	310	A86	C9-C10-C11	-2.20	120.14	126.61
30	C	513	CLA	O2A-CGA-O1A	-2.20	118.04	123.59
30	16	305	CLA	O2A-CGA-O1A	-2.20	117.82	123.30
30	18	301	CLA	CAC-C3C-C4C	2.20	127.66	124.81
30	17	307	CLA	CMC-C2C-C3C	2.20	132.08	126.12
39	c	518	DGD	CAB-C9B-C8B	-2.20	103.27	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	19	304	CLA	C3A-C2A-C1A	2.20	104.63	101.34
30	C	502	CLA	C7-C6-C5	-2.20	107.39	113.36
39	c	518	DGD	O5D-C6D-C5D	-2.20	104.98	109.05
30	19	302	CLA	O1A-CGA-CBA	2.20	130.14	123.08
39	j	101	DGD	CBB-CAB-C9B	-2.20	103.28	114.42
30	19	304	CLA	CHA-C1A-NA	-2.20	121.37	126.40
30	14	304	CLA	CHA-C1A-NA	-2.19	121.37	126.40
30	B	623	CLA	C1-C2-C3	-2.19	122.25	126.04
30	w	102	CLA	C2D-C1D-ND	-2.19	108.49	110.10
33	a	405	SQD	O48-C23-O10	-2.19	118.06	123.59
32	B	618	BCR	C16-C15-C14	-2.19	118.98	123.47
32	b	617	BCR	C27-C26-C25	2.19	125.91	122.73
30	c	502	CLA	C7-C6-C5	-2.19	107.41	113.36
30	D	405	CLA	CAC-C3C-C4C	2.19	127.65	124.81
42	19	312	A86	C12-C11-C13	2.19	119.70	116.02
30	12	313	CLA	O2D-CGD-O1D	-2.19	119.56	123.84
30	16	308	CLA	CHA-C1A-NA	-2.19	121.39	126.40
30	d	406	CLA	CAC-C3C-C4C	2.19	127.65	124.81
30	w	102	CLA	CAA-C2A-C3A	-2.19	106.79	112.78
42	12	304	A86	C28-C27-C26	-2.19	119.86	122.92
32	b	623	BCR	C38-C26-C27	-2.19	109.41	113.62
32	B	618	BCR	C15-C14-C13	-2.19	124.19	127.31
32	f	101	BCR	C27-C26-C25	2.19	125.91	122.73
39	c	518	DGD	C3G-C2G-C1G	-2.19	106.62	111.79
30	17	306	CLA	C3A-C2A-C1A	2.19	104.61	101.34
39	j	101	DGD	C3D-C4D-C5D	-2.19	106.34	110.24
30	18	312	CLA	O2A-CGA-O1A	-2.18	117.85	123.30
32	H	101	BCR	C40-C30-C25	2.18	113.84	110.30
30	15	302	CLA	O2D-CGD-CBD	2.18	115.15	111.27
42	20	211	A86	O1-C15-C14	-2.18	108.83	113.21
39	J	101	DGD	CBB-CAB-C9B	-2.18	103.34	114.42
36	M	102	LMG	C1-C2-C3	-2.18	105.45	110.00
40	D	407	PL9	C50-C49-C48	-2.18	116.34	122.65
32	c	521	BCR	C20-C21-C22	-2.18	124.20	127.31
35	b	621	LHG	C20-C19-C18	-2.18	103.36	114.42
30	C	508	CLA	C2D-C1D-ND	-2.18	108.50	110.10
36	b	619	LMG	C40-C39-C38	-2.18	103.37	114.42
30	18	309	CLA	O2D-CGD-O1D	-2.18	119.58	123.84
30	14	304	CLA	CAA-C2A-C3A	-2.18	106.82	112.78
40	D	407	PL9	C36-C37-C38	-2.18	104.73	111.88
35	A	408	LHG	C5-O7-C7	-2.18	112.44	117.79
32	b	617	BCR	C15-C14-C13	-2.17	124.21	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	13	303	CLA	CAA-C2A-C3A	-2.17	106.82	112.78
30	B	606	CLA	C6-C7-C8	-2.17	108.89	115.92
30	b	605	CLA	C2D-C1D-ND	-2.17	108.50	110.10
42	15	315	A86	C28-C27-C26	-2.17	119.88	122.92
35	B	622	LHG	C20-C19-C18	-2.17	103.39	114.42
32	Y	101	BCR	C29-C30-C25	2.17	113.83	110.48
30	21	302	CLA	CAA-C2A-C3A	-2.17	106.83	112.78
30	14	305	CLA	O2A-C1-C2	-2.17	102.92	108.64
30	c	503	CLA	CHC-C1C-NC	2.17	127.50	124.20
30	16	302	CLA	O2D-CGD-CBD	2.17	115.13	111.27
32	h	101	BCR	C40-C30-C25	2.17	113.82	110.30
33	l	101	SQD	C44-O6-C1	2.17	117.98	113.74
30	15	309	CLA	O2A-CGA-O1A	-2.17	117.89	123.30
30	C	512	CLA	CHA-C4D-ND	2.17	137.04	132.50
30	13	303	CLA	CHA-C1A-NA	-2.17	121.42	126.40
32	C	518	BCR	C20-C21-C22	-2.17	124.21	127.31
39	c	518	DGD	O5E-C6E-C5E	-2.17	103.84	111.29
42	13	301	A86	C28-C27-C26	-2.17	119.88	122.92
30	b	611	CLA	O2A-CGA-O1A	-2.17	118.12	123.59
39	C	517	DGD	O5E-C6E-C5E	-2.17	103.85	111.29
42	20	212	A86	C-C1-C2	-2.17	119.89	122.92
42	17	311	A86	C7-C6-C8	2.17	121.49	118.08
40	D	404	PL9	O2-C1-C6	2.17	124.34	120.59
30	18	311	CLA	O2A-CGA-O1A	-2.17	117.90	123.30
32	B	616	BCR	C33-C5-C6	-2.17	122.09	124.53
30	c	512	CLA	CHA-C4D-ND	2.17	137.03	132.50
40	d	405	PL9	O2-C1-C6	2.17	124.34	120.59
30	12	311	CLA	O2A-CGA-O1A	-2.17	118.12	123.59
32	b	617	BCR	C16-C15-C14	-2.17	119.04	123.47
30	19	302	CLA	C2A-C1A-CHA	2.17	127.65	123.86
40	d	408	PL9	C50-C49-C48	-2.17	116.39	122.65
32	Z	101	BCR	C15-C14-C13	-2.17	124.22	127.31
30	17	307	CLA	CMC-C2C-C1C	-2.17	121.74	125.04
36	c	519	LMG	C3-C4-C5	-2.17	106.38	110.24
30	D	401	CLA	CAA-C2A-C3A	-2.17	106.85	112.78
30	18	307	CLA	CAA-C2A-C3A	-2.17	106.85	112.78
33	b	620	SQD	O48-C23-C24	2.17	118.70	111.91
30	C	514	CLA	C2A-C1A-CHA	2.17	127.64	123.86
30	b	603	CLA	O1D-CGD-CBD	2.17	128.91	124.48
30	d	401	CLA	CAA-C2A-C3A	-2.17	106.85	112.78
42	17	314	A86	C-C1-C24	2.16	121.49	118.08
36	B	620	LMG	C40-C39-C38	-2.16	103.44	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	B	624	BCR	C38-C26-C27	-2.16	109.46	113.62
30	18	301	CLA	C3C-C4C-NC	-2.16	108.14	110.57
42	11	316	A86	C28-C27-C26	-2.16	119.89	122.92
30	c	508	CLA	CAA-C2A-C3A	-2.16	106.85	112.78
30	C	503	CLA	CMB-C2B-C3B	2.16	128.73	124.68
36	m	102	LMG	C1-C2-C3	-2.16	105.49	110.00
42	18	302	A86	C28-C27-C26	-2.16	119.89	122.92
36	Q	301	LMG	C3-C4-C5	-2.16	106.38	110.24
30	D	401	CLA	O2D-CGD-CBD	2.16	115.11	111.27
30	12	306	CLA	CAA-C2A-C3A	-2.16	106.86	112.78
39	H	102	DGD	C5B-C4B-C3B	-2.16	103.46	114.42
39	h	102	DGD	C5B-C4B-C3B	-2.16	103.46	114.42
42	18	315	A86	C-C1-C24	2.16	121.48	118.08
30	c	511	CLA	C2A-C1A-CHA	2.16	127.64	123.86
35	a	407	LHG	C5-O7-C7	-2.16	112.47	117.79
30	11	302	CLA	CAA-C2A-C3A	-2.16	106.86	112.78
30	c	512	CLA	CHA-C1A-NA	-2.16	121.45	126.40
32	B	624	BCR	C27-C26-C25	2.16	125.86	122.73
30	C	508	CLA	CAA-C2A-C3A	-2.16	106.87	112.78
30	18	309	CLA	CHA-C1A-NA	-2.16	121.45	126.40
33	B	621	SQD	O48-C23-C24	2.16	118.68	111.91
30	17	309	CLA	CAA-CBA-CGA	-2.16	106.78	112.51
30	b	606	CLA	C6-C7-C8	-2.16	108.95	115.92
30	15	301	CLA	CAA-CBA-CGA	-2.16	106.95	113.25
30	19	303	CLA	C3A-C2A-C1A	2.15	104.57	101.34
36	M	102	LMG	C9-C8-C7	-2.15	106.69	111.79
32	a	408	BCR	C27-C26-C25	2.15	125.86	122.73
30	B	613	CLA	CAA-C2A-C3A	-2.15	106.89	112.78
32	f	101	BCR	C24-C23-C22	-2.15	122.98	126.23
30	17	301	CLA	CHB-C4A-NA	2.15	127.49	124.51
42	14	314	A86	C-C1-C24	2.15	121.47	118.08
42	11	313	A86	C-C1-C24	2.15	121.46	118.08
30	A	402	CLA	O2D-CGD-O1D	-2.15	119.64	123.84
36	m	102	LMG	C9-C8-C7	-2.15	106.71	111.79
30	18	310	CLA	C2A-C1A-CHA	2.15	127.61	123.86
30	b	613	CLA	CAA-C2A-C3A	-2.15	106.90	112.78
30	20	206	CLA	CAA-C2A-C3A	-2.15	106.90	112.78
30	C	520	CLA	O2A-CGA-O1A	-2.14	118.18	123.59
32	c	515	BCR	C16-C15-C14	-2.14	119.08	123.47
30	18	311	CLA	O2D-CGD-CBD	2.14	115.08	111.27
30	21	307	CLA	O2A-CGA-O1A	-2.14	118.18	123.59
42	21	313	A86	C41-C32-C31	-2.14	108.55	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	M	102	LMG	O1-C7-C8	-2.14	105.73	110.90
42	13	314	A86	C-C1-C24	2.14	121.45	118.08
30	B	603	CLA	CAA-CBA-CGA	-2.14	106.99	113.25
42	13	315	A86	C28-C27-C26	-2.14	119.92	122.92
30	a	402	CLA	O2D-CGD-O1D	-2.14	119.65	123.84
30	A	404	CLA	O2A-CGA-O1A	-2.14	118.19	123.59
39	j	101	DGD	O6E-C1E-O5D	-2.14	104.90	109.97
39	C	517	DGD	C8B-C7B-C6B	-2.14	103.56	114.42
30	17	301	CLA	C1B-CHB-C4A	-2.14	125.88	130.12
42	12	318	A86	C-C1-C24	2.14	121.44	118.08
42	14	315	A86	C-C1-C24	2.14	121.44	118.08
41	f	102	HEM	CMA-C3A-C4A	-2.14	125.18	128.46
30	11	305	CLA	C2A-C1A-CHA	2.14	127.59	123.86
30	B	604	CLA	C1D-ND-C4D	2.14	107.85	106.33
30	18	310	CLA	C2D-C1D-ND	-2.13	108.53	110.10
41	F	102	HEM	C4A-C3A-C2A	2.13	108.48	107.00
30	C	512	CLA	CHA-C1A-NA	-2.13	121.51	126.40
30	b	602	CLA	CAA-C2A-C3A	-2.13	106.94	112.78
36	m	102	LMG	O1-C7-C8	-2.13	105.75	110.90
30	b	603	CLA	CAA-CBA-CGA	-2.13	107.02	113.25
30	b	603	CLA	C4-C3-C5	2.13	118.86	115.27
32	Z	101	BCR	C16-C15-C14	-2.13	119.11	123.47
42	19	312	A86	C4-C3-C2	-2.13	119.11	123.47
30	Z	102	CLA	O2D-CGD-O1D	-2.13	119.67	123.84
30	B	603	CLA	C4-C3-C5	2.13	118.86	115.27
30	W	102	CLA	O2A-CGA-O1A	-2.13	118.21	123.59
36	c	519	LMG	C1-C2-C3	-2.13	105.56	110.00
30	17	301	CLA	C1-C2-C3	-2.13	122.36	126.04
30	B	615	CLA	C1B-CHB-C4A	-2.13	125.90	130.12
36	m	102	LMG	C1-O6-C5	-2.13	109.51	113.69
30	21	309	CLA	CAA-CBA-CGA	-2.13	106.85	112.51
42	12	318	A86	C34-O4-C38	-2.13	113.93	117.90
30	W	102	CLA	C2D-C1D-ND	-2.13	108.53	110.10
30	b	615	CLA	CMA-C3A-C4A	-2.13	106.05	111.77
30	Z	102	CLA	CAA-CBA-CGA	-2.13	107.03	113.25
32	B	618	BCR	C40-C30-C25	2.13	113.75	110.30
36	M	102	LMG	C1-O6-C5	-2.13	109.51	113.69
30	B	623	CLA	CHA-C1A-NA	-2.13	121.53	126.40
30	b	611	CLA	CHD-C1D-ND	-2.13	122.50	124.45
30	c	503	CLA	CMB-C2B-C3B	2.13	128.65	124.68
36	b	618	LMG	O2-C2-C1	-2.12	104.89	110.05
32	B	618	BCR	C27-C26-C25	2.12	125.81	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	11	313	A86	C34-O4-C38	-2.12	113.94	117.90
42	15	313	A86	C-C1-C24	2.12	121.42	118.08
30	16	303	CLA	O2A-CGA-O1A	-2.12	118.01	123.30
30	c	502	CLA	C11-C12-C13	-2.12	109.06	115.92
32	c	516	BCR	C30-C25-C26	-2.12	119.63	122.61
32	c	520	BCR	C16-C17-C18	-2.12	124.28	127.31
30	16	302	CLA	O2A-CGA-O1A	-2.12	118.24	123.59
42	15	312	A86	C-C1-C24	2.12	121.42	118.08
42	20	212	A86	C12-C11-C13	2.12	119.58	116.02
40	d	405	PL9	O2-C1-C2	-2.12	116.93	121.78
30	a	403	CLA	O2A-CGA-O1A	-2.12	118.25	123.59
30	C	506	CLA	CMC-C2C-C3C	2.12	131.87	126.12
35	L	102	LHG	C27-C26-C25	-2.12	103.68	114.42
30	21	302	CLA	CHA-C1A-NA	-2.12	121.55	126.40
30	C	520	CLA	C3A-C2A-C1A	2.12	104.51	101.34
30	C	505	CLA	CAA-C2A-C3A	-2.12	106.98	112.78
30	17	307	CLA	CHC-C1C-NC	2.12	127.41	124.20
40	d	408	PL9	C27-C28-C29	-2.12	122.56	127.66
32	A	409	BCR	C27-C26-C25	2.12	125.80	122.73
30	C	508	CLA	O2A-CGA-O1A	-2.12	118.25	123.59
39	c	518	DGD	C8B-C7B-C6B	-2.11	103.69	114.42
30	17	307	CLA	CAA-C2A-C3A	-2.11	106.99	112.78
32	F	101	BCR	C24-C23-C22	-2.11	123.04	126.23
30	14	307	CLA	C2A-C1A-CHA	2.11	127.56	123.86
30	16	301	CLA	CAA-C2A-C3A	-2.11	106.99	112.78
42	17	315	A86	C23-C16-C22	-2.11	104.25	107.37
31	d	404	PHO	C1B-NB-C4B	2.11	111.43	107.09
30	B	615	CLA	CMA-C3A-C4A	-2.11	106.09	111.77
42	17	314	A86	C34-O4-C38	-2.11	113.96	117.90
42	15	313	A86	C34-O4-C38	-2.11	113.96	117.90
42	18	315	A86	C34-O4-C38	-2.11	113.96	117.90
32	c	520	BCR	C15-C16-C17	-2.11	119.15	123.47
30	16	307	CLA	CHD-C1D-ND	-2.11	122.51	124.45
32	b	616	BCR	C38-C26-C27	-2.11	109.56	113.62
42	12	317	A86	C-C1-C24	2.11	121.40	118.08
30	C	511	CLA	C2A-C1A-CHA	2.11	127.55	123.86
42	14	315	A86	C34-O4-C38	-2.11	113.97	117.90
41	F	102	HEM	CMA-C3A-C4A	-2.11	125.22	128.46
30	15	308	CLA	CHA-C1A-NA	-2.11	121.57	126.40
30	B	608	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
30	D	402	CLA	CHD-C1D-ND	-2.11	122.52	124.45
30	B	623	CLA	O2A-CGA-O1A	-2.11	118.27	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	c	508	CLA	O2A-CGA-O1A	-2.11	118.27	123.59
42	11	316	A86	C8-C6-C5	2.11	122.17	118.94
30	14	305	CLA	CAA-C2A-C1A	2.11	118.88	111.97
31	D	403	PHO	C1B-NB-C4B	2.11	111.42	107.09
30	12	309	CLA	C2A-C1A-CHA	2.11	127.54	123.86
32	B	617	BCR	C38-C26-C27	-2.11	109.57	113.62
32	Y	101	BCR	C15-C16-C17	-2.10	119.16	123.47
30	B	614	CLA	C3A-C2A-C1A	2.10	104.49	101.34
30	16	305	CLA	C3A-C2A-C1A	2.10	104.49	101.34
30	c	503	CLA	C3C-C4C-NC	-2.10	108.21	110.57
42	12	304	A86	C8-C6-C5	2.10	122.17	118.94
30	17	308	CLA	C2A-C1A-CHA	2.10	127.54	123.86
42	15	316	A86	C28-C27-C26	-2.10	119.98	122.92
30	C	511	CLA	C1-C2-C3	-2.10	122.41	126.04
30	B	602	CLA	CAA-C2A-C3A	-2.10	107.02	112.78
30	c	505	CLA	CAA-C2A-C3A	-2.10	107.02	112.78
32	Y	101	BCR	C16-C17-C18	-2.10	124.31	127.31
35	l	102	LHG	C27-C26-C25	-2.10	103.75	114.42
30	b	606	CLA	C2D-C1D-ND	-2.10	108.56	110.10
42	13	314	A86	C34-O4-C38	-2.10	113.98	117.90
30	c	511	CLA	C1-C2-C3	-2.10	122.41	126.04
30	18	303	CLA	C1-C2-C3	-2.10	122.41	126.04
30	c	514	CLA	C2A-C1A-CHA	2.10	127.53	123.86
30	b	614	CLA	C3A-C2A-C1A	2.10	104.48	101.34
30	17	308	CLA	CHA-C1A-NA	-2.10	121.59	126.40
42	21	310	A86	C-C1-C2	-2.10	119.98	122.92
30	B	611	CLA	CHD-C1D-ND	-2.10	122.53	124.45
42	13	313	A86	C-C1-C24	2.10	121.38	118.08
42	17	313	A86	C-C1-C24	2.10	121.38	118.08
30	16	308	CLA	O1A-CGA-CBA	2.10	129.82	123.08
30	18	301	CLA	C2A-C1A-CHA	2.10	127.53	123.86
39	j	101	DGD	C7B-C6B-C5B	-2.10	103.77	114.42
30	C	502	CLA	C11-C12-C13	-2.10	109.14	115.92
30	21	302	CLA	O2A-CGA-O1A	-2.10	118.07	123.30
36	B	619	LMG	O2-C2-C1	-2.10	104.95	110.05
40	D	404	PL9	O2-C1-C2	-2.10	116.97	121.78
42	13	301	A86	C8-C6-C5	2.10	122.16	118.94
32	b	617	BCR	C40-C30-C25	2.10	113.70	110.30
30	b	615	CLA	C1B-CHB-C4A	-2.10	125.96	130.12
30	B	603	CLA	O1D-CGD-CBD	2.10	128.78	124.48
30	b	608	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
30	C	511	CLA	CHA-C4D-ND	2.10	136.88	132.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	C	506	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
32	a	404	BCR	C7-C8-C9	-2.10	123.07	126.23
30	13	304	CLA	CAA-C2A-C1A	2.10	118.84	111.97
30	12	307	CLA	CAA-C2A-C1A	2.09	118.84	111.97
42	11	312	A86	C-C1-C24	2.09	121.38	118.08
30	18	311	CLA	CHA-C1A-NA	-2.09	121.60	126.40
36	1	101	LMG	O2-C2-C3	-2.09	105.51	110.35
30	15	301	CLA	CMC-C2C-C1C	2.09	128.23	125.04
30	c	511	CLA	CHA-C4D-ND	2.09	136.88	132.50
30	B	606	CLA	C2D-C1D-ND	-2.09	108.56	110.10
39	J	101	DGD	C7B-C6B-C5B	-2.09	103.81	114.42
30	12	312	CLA	C2A-C1A-CHA	2.09	127.52	123.86
30	16	309	CLA	O2A-CGA-O1A	-2.09	118.09	123.30
30	17	305	CLA	O2A-CGA-O1A	-2.09	118.32	123.59
31	A	403	PHO	C1B-NB-C4B	2.09	111.38	107.09
40	d	405	PL9	C22-C23-C24	-2.09	122.63	127.66
32	C	515	BCR	C30-C25-C26	-2.09	119.67	122.61
30	18	308	CLA	C2A-C1A-CHA	2.09	127.51	123.86
37	B	625	LMU	C2'-C3'-C4'	2.09	114.45	109.68
40	d	405	PL9	O1-C4-C3	-2.09	118.42	120.72
30	C	507	CLA	CHA-C1A-NA	-2.09	121.61	126.40
30	15	303	CLA	CAA-C2A-C3A	-2.09	107.06	112.78
30	c	506	CLA	O2A-CGA-O1A	-2.09	118.32	123.59
30	c	507	CLA	CHA-C1A-NA	-2.09	121.61	126.40
30	C	503	CLA	C3C-C4C-NC	-2.09	108.23	110.57
42	15	316	A86	C8-C6-C5	2.09	122.14	118.94
40	D	407	PL9	C27-C28-C29	-2.09	122.64	127.66
42	20	213	A86	C34-O4-C38	-2.09	114.01	117.90
30	19	308	CLA	O2D-CGD-O1D	-2.09	119.76	123.84
30	13	306	CLA	C2A-C1A-CHA	2.09	127.51	123.86
36	Q	301	LMG	C1-C2-C3	-2.09	105.65	110.00
42	19	312	A86	C28-C27-C26	-2.09	120.00	122.92
40	D	404	PL9	C36-C37-C38	-2.08	105.03	111.88
30	16	306	CLA	C2A-C1A-CHA	2.08	127.50	123.86
42	19	311	A86	C7-C6-C5	-2.08	120.00	122.92
30	19	302	CLA	C2D-C1D-ND	-2.08	108.57	110.10
30	18	308	CLA	O2A-CGA-O1A	-2.08	118.11	123.30
30	21	303	CLA	C2A-C1A-CHA	2.08	127.50	123.86
30	11	303	CLA	CAA-C2A-C1A	2.08	118.80	111.97
42	16	312	A86	C-C1-C24	2.08	121.36	118.08
39	J	101	DGD	O6E-C1E-O5D	-2.08	105.04	109.97
30	20	206	CLA	CHA-C1A-NA	-2.08	121.63	126.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	c	506	CLA	CMC-C2C-C3C	2.08	131.77	126.12
30	20	202	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
32	b	616	BCR	C16-C15-C14	-2.08	119.21	123.47
30	13	302	CLA	CAA-CBA-CGA	-2.08	107.18	113.25
30	C	512	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
30	20	207	CLA	CAA-C2A-C1A	2.08	118.79	111.97
41	v	201	HEM	CBA-CAA-C2A	-2.08	109.07	112.62
30	20	207	CLA	O2A-CGA-O1A	-2.08	118.12	123.30
30	16	302	CLA	C3A-C2A-C1A	2.08	104.45	101.34
30	20	209	CLA	CHA-C1A-NA	-2.08	121.64	126.40
32	B	617	BCR	C16-C15-C14	-2.08	119.22	123.47
30	20	204	CLA	C2A-C1A-CHA	2.08	127.49	123.86
30	A	404	CLA	C3B-C4B-NB	-2.07	106.53	109.21
30	17	310	CLA	C2A-C1A-CHA	2.07	127.48	123.86
30	b	622	CLA	O2A-CGA-O1A	-2.07	118.36	123.59
42	21	314	A86	C34-O4-C38	-2.07	114.03	117.90
40	D	404	PL9	C22-C23-C24	-2.07	122.67	127.66
42	18	302	A86	C8-C6-C5	2.07	122.12	118.94
30	14	305	CLA	C2A-C1A-CHA	2.07	127.48	123.86
30	12	303	CLA	C2A-C1A-CHA	2.07	127.48	123.86
30	20	203	CLA	C2A-C1A-CHA	2.07	127.48	123.86
42	13	315	A86	C8-C6-C5	2.07	122.12	118.94
30	a	402	CLA	CAA-C2A-C3A	-2.07	107.11	112.78
30	12	305	CLA	CAA-CBA-CGA	-2.07	107.20	113.25
30	14	302	CLA	C2A-C1A-CHA	2.07	127.48	123.86
30	21	306	CLA	C2A-C1A-CHA	2.07	127.48	123.86
35	b	621	LHG	C27-C26-C25	-2.07	103.92	114.42
31	d	403	PHO	CMA-C3A-C4A	-2.07	109.84	114.38
30	11	301	CLA	CAA-CBA-CGA	-2.07	107.21	113.25
35	d	409	LHG	C5-O7-C7	-2.07	112.70	117.79
42	15	315	A86	C8-C6-C5	2.07	122.12	118.94
30	21	304	CLA	CHB-C4A-NA	2.07	127.37	124.51
31	A	403	PHO	CMA-C3A-C4A	-2.07	109.85	114.38
42	17	316	A86	C19-C18-C17	-2.07	106.78	110.77
30	14	303	CLA	CAA-CBA-CGA	-2.07	107.21	113.25
40	D	407	PL9	C46-C47-C48	-2.07	105.08	111.88
30	A	402	CLA	CAA-C2A-C3A	-2.07	107.11	112.78
30	16	302	CLA	CHD-C1D-ND	-2.07	122.55	124.45
35	L	101	LHG	C5-O7-C7	-2.07	112.70	117.79
30	B	612	CLA	C2A-C1A-CHA	2.07	127.47	123.86
30	20	208	CLA	CHA-C1A-NA	-2.07	121.67	126.40
30	B	612	CLA	CMA-C3A-C4A	-2.07	106.22	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	W	103	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
30	C	502	CLA	C1-C2-C3	-2.06	122.47	126.04
30	B	605	CLA	C1-C2-C3	-2.06	122.47	126.04
30	c	512	CLA	O2A-CGA-O1A	-2.06	118.38	123.59
32	A	405	BCR	C7-C8-C9	-2.06	123.12	126.23
32	C	515	BCR	C24-C23-C22	-2.06	123.12	126.23
42	21	313	A86	C19-C18-C17	-2.06	106.79	110.77
33	L	103	SQD	O48-C23-O10	-2.06	118.39	123.59
41	V	201	HEM	CBA-CAA-C2A	-2.06	109.10	112.62
30	d	402	CLA	CHD-C1D-ND	-2.06	122.56	124.45
30	20	205	CLA	C2D-C1D-ND	-2.06	108.59	110.10
30	w	102	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
35	B	622	LHG	C27-C26-C25	-2.06	103.97	114.42
30	17	303	CLA	CAA-CBA-CGA	-2.06	107.24	113.25
40	d	405	PL9	C36-C37-C38	-2.06	105.12	111.88
30	15	307	CLA	O2A-CGA-O1A	-2.06	118.40	123.59
42	20	212	A86	C35-C34-C33	2.06	113.47	109.88
33	l	101	SQD	O48-C23-O10	-2.06	118.40	123.59
30	b	615	CLA	O2D-CGD-CBD	2.06	114.92	111.27
30	18	310	CLA	C1B-CHB-C4A	-2.06	126.05	130.12
30	c	502	CLA	C1-C2-C3	-2.06	122.49	126.04
30	21	305	CLA	C2A-C1A-CHA	2.06	127.45	123.86
30	c	512	CLA	C7-C6-C5	-2.05	107.78	113.36
32	B	624	BCR	C15-C16-C17	-2.05	119.27	123.47
30	b	612	CLA	CMA-C3A-C4A	-2.05	106.25	111.77
30	C	513	CLA	C2A-C1A-CHA	2.05	127.45	123.86
30	b	612	CLA	C2A-C1A-CHA	2.05	127.45	123.86
30	17	307	CLA	C2A-C1A-CHA	2.05	127.45	123.86
30	b	602	CLA	CAA-CBA-CGA	-2.05	107.26	113.25
30	16	301	CLA	C2A-C1A-CHA	2.05	127.44	123.86
30	15	301	CLA	O2A-CGA-O1A	-2.05	118.42	123.59
30	12	307	CLA	C2A-C1A-CHA	2.05	127.44	123.86
30	15	304	CLA	C2A-C1A-CHA	2.05	127.44	123.86
39	C	516	DGD	C4E-C3E-C2E	-2.05	107.25	110.82
30	Z	102	CLA	O2A-CGA-O1A	-2.05	118.43	123.59
36	12	301	LMG	O6-C1-O1	-2.05	105.13	109.97
39	C	516	DGD	CBB-CAB-C9B	-2.05	104.04	114.42
30	11	315	CLA	C2A-C1A-CHA	2.05	127.44	123.86
31	d	403	PHO	C1B-NB-C4B	2.04	111.29	107.09
30	19	304	CLA	O1A-CGA-CBA	2.04	129.65	123.08
30	15	303	CLA	C3A-C2A-C1A	2.04	104.39	101.34
30	15	306	CLA	O2A-CGA-O1A	-2.04	118.21	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	c	507	CLA	CHB-C4A-NA	2.04	127.33	124.51
30	b	604	CLA	C1D-ND-C4D	2.04	107.78	106.33
30	B	602	CLA	CAA-CBA-CGA	-2.04	107.29	113.25
39	c	517	DGD	C4E-C3E-C2E	-2.04	107.26	110.82
42	14	316	A86	C19-C18-C17	-2.04	106.83	110.77
30	15	304	CLA	CHA-C4D-ND	2.04	136.76	132.50
30	16	303	CLA	C2D-C1D-ND	-2.04	108.60	110.10
42	21	313	A86	C-C1-C24	2.04	121.29	118.08
30	B	615	CLA	O2D-CGD-CBD	2.04	114.89	111.27
42	17	315	A86	C9-C10-C11	-2.04	120.62	126.61
42	17	311	A86	C26-C25-C24	-2.04	116.86	123.22
32	a	408	BCR	C24-C23-C22	-2.04	123.16	126.23
30	20	203	CLA	CAA-C2A-C3A	-2.04	107.20	112.78
39	C	516	DGD	O3E-C3E-C2E	-2.04	105.64	110.35
30	c	513	CLA	C2A-C1A-CHA	2.04	127.42	123.86
40	D	404	PL9	C31-C32-C33	-2.04	105.19	111.88
40	D	404	PL9	O1-C4-C3	-2.03	118.48	120.72
30	C	512	CLA	C7-C6-C5	-2.03	107.83	113.36
30	19	305	CLA	O1A-CGA-CBA	2.03	129.62	123.08
32	b	617	BCR	C1-C6-C5	-2.03	119.75	122.61
39	c	517	DGD	CBB-CAB-C9B	-2.03	104.10	114.42
42	17	302	A86	C-C1-C24	2.03	121.28	118.08
42	20	201	A86	C23-C16-C17	-2.03	105.45	108.98
42	17	311	A86	C3-C4-C5	-2.03	119.31	123.47
30	d	401	CLA	C3A-C2A-C1A	2.03	104.38	101.34
32	F	101	BCR	C40-C30-C25	2.03	113.59	110.30
42	15	314	A86	C19-C18-C17	-2.03	106.85	110.77
39	J	101	DGD	C5B-C4B-C3B	-2.03	104.11	114.42
30	14	308	CLA	CHA-C1A-NA	-2.03	121.75	126.40
42	20	210	A86	C34-O4-C38	-2.03	114.11	117.90
42	15	314	A86	C8-C6-C5	-2.03	115.83	118.94
36	b	618	LMG	C6-C5-C4	-2.03	108.25	113.00
39	j	101	DGD	C5B-C4B-C3B	-2.03	104.12	114.42
42	14	301	A86	C19-C18-C17	-2.03	106.86	110.77
39	c	517	DGD	O3E-C3E-C2E	-2.03	105.66	110.35
42	20	210	A86	C4-C3-C2	-2.03	119.32	123.47
30	a	403	CLA	C3B-C4B-NB	-2.03	106.59	109.21
39	H	102	DGD	O6E-C1E-O5D	-2.03	105.17	109.97
40	d	408	PL9	C20-C19-C21	2.03	118.68	115.27
30	13	304	CLA	C2A-C1A-CHA	2.03	127.40	123.86
42	19	310	A86	C7-C6-C8	2.03	121.27	118.08
40	d	408	PL9	C46-C47-C48	-2.03	105.22	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	d	405	PL9	C31-C32-C33	-2.03	105.22	111.88
32	c	520	BCR	C37-C22-C21	-2.03	120.08	122.92
30	18	307	CLA	O2A-CGA-O1A	-2.03	118.25	123.30
30	w	103	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
42	17	302	A86	C35-C34-C33	2.03	113.41	109.88
30	16	306	CLA	O2A-CGA-O1A	-2.03	118.25	123.30
42	11	314	A86	C19-C18-C17	-2.03	106.86	110.77
30	15	304	CLA	O2A-CGA-O1A	-2.03	118.25	123.30
30	d	406	CLA	C1-C2-C3	-2.02	122.54	126.04
39	c	517	DGD	C7A-C6A-C5A	-2.02	104.15	114.42
30	12	310	CLA	O2A-CGA-O1A	-2.02	118.25	123.30
32	C	515	BCR	C21-C20-C19	-2.02	116.90	123.22
42	11	312	A86	C7-C6-C5	-2.02	120.09	122.92
32	m	103	BCR	C16-C15-C14	-2.02	119.33	123.47
41	V	201	HEM	CAD-C3D-C2D	-2.02	124.11	127.88
30	20	206	CLA	O2A-CGA-O1A	-2.02	118.26	123.30
30	18	301	CLA	CHA-C1A-NA	-2.02	121.77	126.40
30	b	603	CLA	CHC-C1C-NC	2.02	127.27	124.20
30	20	207	CLA	CHA-C1A-NA	-2.02	121.77	126.40
30	c	512	CLA	O2D-CGD-CBD	2.02	114.86	111.27
42	12	319	A86	C19-C18-C17	-2.02	106.87	110.77
40	D	407	PL9	C20-C19-C21	2.02	118.67	115.27
30	A	402	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
30	B	603	CLA	C2D-C1D-ND	-2.02	108.62	110.10
30	17	301	CLA	C7-C6-C5	-2.02	107.88	113.36
30	18	303	CLA	CHD-C1D-ND	-2.02	122.60	124.45
42	11	314	A86	C8-C6-C5	-2.02	115.85	118.94
30	17	305	CLA	C2A-C1A-CHA	2.02	127.38	123.86
39	C	516	DGD	C7A-C6A-C5A	-2.02	104.19	114.42
30	B	601	CLA	C3A-C2A-C1A	2.02	104.36	101.34
30	18	309	CLA	C1-C2-C3	-2.02	122.56	126.04
30	C	502	CLA	CHD-C1D-ND	-2.02	122.60	124.45
30	C	514	CLA	O1D-CGD-CBD	2.02	128.61	124.48
30	20	204	CLA	O1D-CGD-CBD	2.02	128.61	124.48
30	b	602	CLA	C4-C3-C5	2.01	118.66	115.27
32	H	101	BCR	C20-C21-C22	-2.01	124.44	127.31
32	h	101	BCR	C20-C21-C22	-2.01	124.44	127.31
32	b	623	BCR	C15-C16-C17	-2.01	119.35	123.47
30	D	401	CLA	C3A-C2A-C1A	2.01	104.36	101.34
30	c	502	CLA	C3C-C4C-NC	-2.01	108.31	110.57
30	C	504	CLA	C3A-C2A-C1A	2.01	104.35	101.34
30	21	305	CLA	O2A-CGA-O1A	-2.01	118.28	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	14	311	CLA	O2A-CGA-O1A	-2.01	118.28	123.30
42	15	312	A86	C7-C6-C5	-2.01	120.10	122.92
42	20	210	A86	C28-C27-C26	-2.01	120.10	122.92
30	16	302	CLA	CAA-C2A-C3A	-2.01	107.27	112.78
30	18	310	CLA	CMB-C2B-C3B	2.01	128.44	124.68
42	14	301	A86	C8-C6-C5	-2.01	115.85	118.94
32	h	101	BCR	C33-C5-C6	-2.01	122.27	124.53
39	h	102	DGD	O6E-C1E-O5D	-2.01	105.21	109.97
41	V	201	HEM	CHD-C1D-ND	2.01	126.62	124.43
30	b	605	CLA	C1-C2-C3	-2.01	122.56	126.04
30	17	307	CLA	O2A-CGA-O1A	-2.01	118.29	123.30
39	c	518	DGD	C7B-C6B-C5B	-2.01	104.22	114.42
30	B	613	CLA	O1D-CGD-CBD	2.01	128.60	124.48
32	B	616	BCR	C16-C15-C14	-2.01	119.36	123.47
30	15	307	CLA	CHA-C1A-NA	-2.01	121.80	126.40
36	c	519	LMG	C22-C21-C20	-2.01	104.23	114.42
30	b	603	CLA	C2D-C1D-ND	-2.01	108.62	110.10
32	c	516	BCR	C16-C15-C14	-2.01	119.36	123.47
30	D	405	CLA	C11-C12-C13	-2.01	109.43	115.92
36	12	301	LMG	O7-C10-O9	-2.01	118.85	123.70
30	20	208	CLA	O2A-CGA-O1A	-2.01	118.30	123.30
32	f	101	BCR	C40-C30-C25	2.01	113.55	110.30
30	19	301	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
30	c	509	CLA	C16-C15-C13	-2.01	109.44	115.92
30	d	406	CLA	C11-C12-C13	-2.01	109.44	115.92
30	c	504	CLA	C3A-C2A-C1A	2.01	104.34	101.34
30	C	509	CLA	C16-C15-C13	-2.01	109.44	115.92
32	c	516	BCR	C21-C20-C19	-2.01	116.96	123.22
35	A	408	LHG	C27-C26-C25	-2.01	104.25	114.42
39	C	517	DGD	C5B-C4B-C3B	-2.01	104.25	114.42
35	a	407	LHG	C27-C26-C25	-2.01	104.25	114.42
39	C	517	DGD	C7B-C6B-C5B	-2.01	104.25	114.42
36	Q	301	LMG	C22-C21-C20	-2.00	104.25	114.42
30	c	502	CLA	CHD-C1D-ND	-2.00	122.61	124.45
30	B	604	CLA	CHA-C4D-ND	2.00	136.69	132.50
30	15	302	CLA	CHA-C1A-NA	-2.00	121.81	126.40
32	B	618	BCR	C1-C6-C5	-2.00	119.79	122.61
30	C	506	CLA	CHC-C1C-NC	2.00	127.24	124.20
42	16	313	A86	C8-C6-C5	-2.00	115.87	118.94
42	12	304	A86	C23-C16-C17	-2.00	105.50	108.98
39	c	518	DGD	C5B-C4B-C3B	-2.00	104.26	114.42
36	1	101	LMG	O7-C10-O9	-2.00	118.86	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	A	409	BCR	C24-C23-C22	-2.00	123.21	126.23
30	A	404	CLA	O2D-CGD-CBD	2.00	114.82	111.27
30	a	402	CLA	O2A-CGA-O1A	-2.00	118.54	123.59
40	D	404	PL9	C27-C28-C29	-2.00	122.84	127.66

All (164) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
30	A	402	CLA	ND
30	A	404	CLA	ND
30	B	601	CLA	ND
30	B	602	CLA	ND
30	B	603	CLA	ND
30	B	604	CLA	ND
30	B	605	CLA	ND
30	B	606	CLA	ND
30	B	607	CLA	ND
30	B	608	CLA	ND
30	B	609	CLA	ND
30	B	610	CLA	ND
30	B	611	CLA	ND
30	B	612	CLA	ND
30	B	613	CLA	ND
30	B	614	CLA	ND
30	B	615	CLA	ND
30	B	623	CLA	ND
30	C	502	CLA	ND
30	C	503	CLA	ND
30	C	504	CLA	ND
30	C	505	CLA	ND
30	C	506	CLA	ND
30	C	507	CLA	ND
30	C	508	CLA	ND
30	C	509	CLA	ND
30	C	510	CLA	ND
30	C	511	CLA	ND
30	C	512	CLA	ND
30	C	513	CLA	ND
30	C	514	CLA	ND
30	C	520	CLA	ND
30	D	401	CLA	ND
30	D	402	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
30	D	405	CLA	ND
30	D	406	CLA	ND
30	M	101	CLA	ND
30	Z	102	CLA	ND
30	W	102	CLA	ND
30	a	402	CLA	ND
30	a	403	CLA	ND
30	b	601	CLA	ND
30	b	602	CLA	ND
30	b	603	CLA	ND
30	b	604	CLA	ND
30	b	605	CLA	ND
30	b	606	CLA	ND
30	b	607	CLA	ND
30	b	608	CLA	ND
30	b	609	CLA	ND
30	b	610	CLA	ND
30	b	611	CLA	ND
30	b	612	CLA	ND
30	b	613	CLA	ND
30	b	614	CLA	ND
30	b	615	CLA	ND
30	b	622	CLA	ND
30	c	502	CLA	ND
30	c	503	CLA	ND
30	c	504	CLA	ND
30	c	505	CLA	ND
30	c	506	CLA	ND
30	c	507	CLA	ND
30	c	508	CLA	ND
30	c	509	CLA	ND
30	c	510	CLA	ND
30	c	511	CLA	ND
30	c	512	CLA	ND
30	c	513	CLA	ND
30	c	514	CLA	ND
30	d	401	CLA	ND
30	d	402	CLA	ND
30	d	406	CLA	ND
30	d	407	CLA	ND
30	m	101	CLA	ND
30	w	102	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
30	11	301	CLA	ND
30	11	302	CLA	ND
30	11	303	CLA	ND
30	11	304	CLA	ND
30	11	305	CLA	ND
30	11	306	CLA	ND
30	11	307	CLA	ND
30	11	309	CLA	ND
30	11	315	CLA	ND
30	12	303	CLA	ND
30	12	305	CLA	ND
30	12	306	CLA	ND
30	12	307	CLA	ND
30	12	308	CLA	ND
30	12	309	CLA	ND
30	12	310	CLA	ND
30	12	311	CLA	ND
30	12	312	CLA	ND
30	12	314	CLA	ND
30	13	302	CLA	ND
30	13	303	CLA	ND
30	13	304	CLA	ND
30	13	305	CLA	ND
30	13	306	CLA	ND
30	13	307	CLA	ND
30	13	308	CLA	ND
30	13	310	CLA	ND
30	14	302	CLA	ND
30	14	303	CLA	ND
30	14	304	CLA	ND
30	14	305	CLA	ND
30	14	306	CLA	ND
30	14	307	CLA	ND
30	14	308	CLA	ND
30	14	309	CLA	ND
30	14	311	CLA	ND
30	15	301	CLA	ND
30	15	302	CLA	ND
30	15	303	CLA	ND
30	15	305	CLA	ND
30	15	306	CLA	ND
30	15	307	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
30	15	308	CLA	ND
30	15	309	CLA	ND
30	16	301	CLA	ND
30	16	302	CLA	ND
30	16	303	CLA	ND
30	16	304	CLA	ND
30	16	306	CLA	ND
30	16	307	CLA	ND
30	16	309	CLA	ND
30	17	301	CLA	ND
30	17	303	CLA	ND
30	17	305	CLA	ND
30	17	307	CLA	ND
30	17	308	CLA	ND
30	17	309	CLA	ND
30	17	310	CLA	ND
30	18	301	CLA	ND
30	18	303	CLA	ND
30	18	304	CLA	ND
30	18	305	CLA	ND
30	18	307	CLA	ND
30	18	308	CLA	ND
30	18	309	CLA	ND
30	18	310	CLA	ND
30	18	311	CLA	ND
30	18	312	CLA	ND
30	19	302	CLA	ND
30	19	303	CLA	ND
30	19	304	CLA	ND
30	19	305	CLA	ND
30	19	306	CLA	ND
30	19	307	CLA	ND
30	19	308	CLA	ND
30	19	309	CLA	ND
30	20	203	CLA	ND
30	20	204	CLA	ND
30	20	206	CLA	ND
30	20	207	CLA	ND
30	20	209	CLA	ND
30	21	303	CLA	ND
30	21	304	CLA	ND
30	21	305	CLA	ND

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Mol	Chain	Res	Type	Atom
30	21	306	CLA	ND
30	21	307	CLA	ND
30	21	308	CLA	ND
30	21	309	CLA	ND

All (3660) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
30	A	402	CLA	CBD-CGD-O2D-CED
30	B	601	CLA	C1A-C2A-CAA-CBA
30	B	601	CLA	CHA-CBD-CGD-O1D
30	B	601	CLA	CHA-CBD-CGD-O2D
30	B	601	CLA	CAD-CBD-CGD-O1D
30	B	602	CLA	C2-C3-C5-C6
30	B	602	CLA	C4-C3-C5-C6
30	B	603	CLA	CAD-CBD-CGD-O1D
30	B	603	CLA	CAD-CBD-CGD-O2D
30	B	603	CLA	C4-C3-C5-C6
30	B	604	CLA	CHA-CBD-CGD-O1D
30	B	604	CLA	CHA-CBD-CGD-O2D
30	B	605	CLA	C2-C3-C5-C6
30	B	605	CLA	C4-C3-C5-C6
30	B	608	CLA	CHA-CBD-CGD-O1D
30	B	608	CLA	CHA-CBD-CGD-O2D
30	B	610	CLA	CHA-CBD-CGD-O2D
30	B	611	CLA	CHA-CBD-CGD-O1D
30	B	611	CLA	CHA-CBD-CGD-O2D
30	B	611	CLA	CBD-CGD-O2D-CED
30	B	612	CLA	C1A-C2A-CAA-CBA
30	B	612	CLA	C3A-C2A-CAA-CBA
30	B	613	CLA	C2-C3-C5-C6
30	B	613	CLA	C4-C3-C5-C6
30	B	614	CLA	CHA-CBD-CGD-O1D
30	B	614	CLA	CHA-CBD-CGD-O2D
30	B	615	CLA	CHA-CBD-CGD-O2D
30	C	502	CLA	C1A-C2A-CAA-CBA
30	C	504	CLA	CBD-CGD-O2D-CED
30	C	505	CLA	CHA-CBD-CGD-O1D
30	C	505	CLA	CHA-CBD-CGD-O2D
30	C	506	CLA	CHA-CBD-CGD-O1D
30	C	506	CLA	CHA-CBD-CGD-O2D
30	C	510	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	C	510	CLA	C6-C7-C8-C9
30	C	512	CLA	CHA-CBD-CGD-O1D
30	C	514	CLA	CBD-CGD-O2D-CED
30	D	401	CLA	CHA-CBD-CGD-O1D
30	D	401	CLA	CHA-CBD-CGD-O2D
30	D	402	CLA	CHA-CBD-CGD-O1D
30	D	402	CLA	CHA-CBD-CGD-O2D
30	D	405	CLA	C1A-C2A-CAA-CBA
30	M	101	CLA	CHA-CBD-CGD-O1D
30	M	101	CLA	CHA-CBD-CGD-O2D
30	M	101	CLA	CAD-CBD-CGD-O1D
30	M	101	CLA	CAD-CBD-CGD-O2D
30	M	101	CLA	C2-C3-C5-C6
30	M	101	CLA	C4-C3-C5-C6
30	W	102	CLA	C1A-C2A-CAA-CBA
30	a	402	CLA	CBD-CGD-O2D-CED
30	b	601	CLA	C1A-C2A-CAA-CBA
30	b	601	CLA	CHA-CBD-CGD-O1D
30	b	601	CLA	CHA-CBD-CGD-O2D
30	b	601	CLA	CAD-CBD-CGD-O1D
30	b	602	CLA	C2-C3-C5-C6
30	b	602	CLA	C4-C3-C5-C6
30	b	603	CLA	CAD-CBD-CGD-O1D
30	b	603	CLA	CAD-CBD-CGD-O2D
30	b	603	CLA	C4-C3-C5-C6
30	b	604	CLA	CHA-CBD-CGD-O1D
30	b	604	CLA	CHA-CBD-CGD-O2D
30	b	605	CLA	C2-C3-C5-C6
30	b	605	CLA	C4-C3-C5-C6
30	b	608	CLA	CHA-CBD-CGD-O1D
30	b	608	CLA	CHA-CBD-CGD-O2D
30	b	610	CLA	CHA-CBD-CGD-O2D
30	b	611	CLA	CHA-CBD-CGD-O1D
30	b	611	CLA	CHA-CBD-CGD-O2D
30	b	611	CLA	CBD-CGD-O2D-CED
30	b	612	CLA	C1A-C2A-CAA-CBA
30	b	612	CLA	C3A-C2A-CAA-CBA
30	b	613	CLA	C2-C3-C5-C6
30	b	613	CLA	C4-C3-C5-C6
30	b	614	CLA	CHA-CBD-CGD-O1D
30	b	614	CLA	CHA-CBD-CGD-O2D
30	b	615	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
30	c	502	CLA	C1A-C2A-CAA-CBA
30	c	504	CLA	CBD-CGD-O2D-CED
30	c	505	CLA	CHA-CBD-CGD-O1D
30	c	505	CLA	CHA-CBD-CGD-O2D
30	c	506	CLA	CHA-CBD-CGD-O1D
30	c	506	CLA	CHA-CBD-CGD-O2D
30	c	510	CLA	CBD-CGD-O2D-CED
30	c	510	CLA	C6-C7-C8-C9
30	c	512	CLA	CHA-CBD-CGD-O1D
30	c	513	CLA	C1A-C2A-CAA-CBA
30	c	514	CLA	CBD-CGD-O2D-CED
30	d	401	CLA	CHA-CBD-CGD-O1D
30	d	401	CLA	CHA-CBD-CGD-O2D
30	d	402	CLA	CHA-CBD-CGD-O1D
30	d	402	CLA	CHA-CBD-CGD-O2D
30	d	406	CLA	C1A-C2A-CAA-CBA
30	m	101	CLA	CHA-CBD-CGD-O1D
30	m	101	CLA	CHA-CBD-CGD-O2D
30	m	101	CLA	CAD-CBD-CGD-O1D
30	m	101	CLA	CAD-CBD-CGD-O2D
30	m	101	CLA	C2-C3-C5-C6
30	m	101	CLA	C4-C3-C5-C6
30	w	102	CLA	C1A-C2A-CAA-CBA
30	11	301	CLA	C3A-C2A-CAA-CBA
30	11	303	CLA	C1A-C2A-CAA-CBA
30	11	304	CLA	CHA-CBD-CGD-O1D
30	11	304	CLA	CHA-CBD-CGD-O2D
30	11	305	CLA	C1A-C2A-CAA-CBA
30	11	305	CLA	C3A-C2A-CAA-CBA
30	11	305	CLA	CHA-CBD-CGD-O1D
30	11	308	CLA	C1A-C2A-CAA-CBA
30	11	309	CLA	C1A-C2A-CAA-CBA
30	11	315	CLA	CHA-CBD-CGD-O1D
30	11	315	CLA	CHA-CBD-CGD-O2D
30	12	303	CLA	CHA-CBD-CGD-O1D
30	12	303	CLA	CHA-CBD-CGD-O2D
30	12	305	CLA	C3A-C2A-CAA-CBA
30	12	307	CLA	C1A-C2A-CAA-CBA
30	12	308	CLA	CHA-CBD-CGD-O1D
30	12	308	CLA	CHA-CBD-CGD-O2D
30	12	309	CLA	C1A-C2A-CAA-CBA
30	12	309	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	12	309	CLA	CHA-CBD-CGD-O1D
30	12	312	CLA	CHA-CBD-CGD-O1D
30	12	312	CLA	CHA-CBD-CGD-O2D
30	12	313	CLA	C1A-C2A-CAA-CBA
30	12	314	CLA	C1A-C2A-CAA-CBA
30	13	302	CLA	C3A-C2A-CAA-CBA
30	13	304	CLA	C1A-C2A-CAA-CBA
30	13	305	CLA	CHA-CBD-CGD-O1D
30	13	305	CLA	CHA-CBD-CGD-O2D
30	13	306	CLA	C1A-C2A-CAA-CBA
30	13	306	CLA	C3A-C2A-CAA-CBA
30	13	306	CLA	CHA-CBD-CGD-O1D
30	13	309	CLA	C1A-C2A-CAA-CBA
30	13	310	CLA	C1A-C2A-CAA-CBA
30	14	302	CLA	CHA-CBD-CGD-O1D
30	14	302	CLA	CHA-CBD-CGD-O2D
30	14	303	CLA	C3A-C2A-CAA-CBA
30	14	305	CLA	C1A-C2A-CAA-CBA
30	14	306	CLA	CHA-CBD-CGD-O1D
30	14	306	CLA	CHA-CBD-CGD-O2D
30	14	307	CLA	C1A-C2A-CAA-CBA
30	14	307	CLA	C3A-C2A-CAA-CBA
30	14	307	CLA	CHA-CBD-CGD-O1D
30	14	310	CLA	C1A-C2A-CAA-CBA
30	14	311	CLA	C1A-C2A-CAA-CBA
30	15	301	CLA	C1A-C2A-CAA-CBA
30	15	301	CLA	C3A-C2A-CAA-CBA
30	15	302	CLA	C1A-C2A-CAA-CBA
30	15	302	CLA	CBD-CGD-O2D-CED
30	15	303	CLA	C1A-C2A-CAA-CBA
30	15	303	CLA	CHA-CBD-CGD-O1D
30	15	303	CLA	CHA-CBD-CGD-O2D
30	15	307	CLA	C1A-C2A-CAA-CBA
30	15	307	CLA	C3A-C2A-CAA-CBA
30	16	302	CLA	CBD-CGD-O2D-CED
30	16	303	CLA	C1A-C2A-CAA-CBA
30	16	303	CLA	CBD-CGD-O2D-CED
30	16	304	CLA	C1A-C2A-CAA-CBA
30	16	304	CLA	CHA-CBD-CGD-O1D
30	16	304	CLA	CHA-CBD-CGD-O2D
30	16	304	CLA	CAD-CBD-CGD-O1D
30	16	307	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	16	307	CLA	C3A-C2A-CAA-CBA
30	16	308	CLA	C1A-C2A-CAA-CBA
30	16	308	CLA	C3A-C2A-CAA-CBA
30	16	309	CLA	C1A-C2A-CAA-CBA
30	17	301	CLA	CHA-CBD-CGD-O1D
30	17	301	CLA	CHA-CBD-CGD-O2D
30	17	303	CLA	C1A-C2A-CAA-CBA
30	17	303	CLA	C3A-C2A-CAA-CBA
30	17	303	CLA	CHA-CBD-CGD-O1D
30	17	303	CLA	CHA-CBD-CGD-O2D
30	17	304	CLA	C1A-C2A-CAA-CBA
30	17	304	CLA	CBD-CGD-O2D-CED
30	17	305	CLA	C1A-C2A-CAA-CBA
30	17	305	CLA	CHA-CBD-CGD-O1D
30	17	305	CLA	CHA-CBD-CGD-O2D
30	17	306	CLA	CBD-CGD-O2D-CED
30	17	308	CLA	C1A-C2A-CAA-CBA
30	17	308	CLA	C3A-C2A-CAA-CBA
30	17	309	CLA	CHA-CBD-CGD-O2D
30	17	310	CLA	C1A-C2A-CAA-CBA
30	18	301	CLA	CHA-CBD-CGD-O1D
30	18	301	CLA	CHA-CBD-CGD-O2D
30	18	303	CLA	C1A-C2A-CAA-CBA
30	18	303	CLA	C3A-C2A-CAA-CBA
30	18	304	CLA	CBD-CGD-O2D-CED
30	18	305	CLA	C1A-C2A-CAA-CBA
30	18	305	CLA	CHA-CBD-CGD-O1D
30	18	305	CLA	CHA-CBD-CGD-O2D
30	18	309	CLA	C3A-C2A-CAA-CBA
30	18	311	CLA	CHA-CBD-CGD-O1D
30	18	311	CLA	CHA-CBD-CGD-O2D
30	19	301	CLA	C1A-C2A-CAA-CBA
30	19	301	CLA	C3A-C2A-CAA-CBA
30	19	302	CLA	CBD-CGD-O2D-CED
30	19	305	CLA	C1A-C2A-CAA-CBA
30	19	305	CLA	C3A-C2A-CAA-CBA
30	19	309	CLA	C1A-C2A-CAA-CBA
30	19	309	CLA	C3A-C2A-CAA-CBA
30	20	202	CLA	C1A-C2A-CAA-CBA
30	20	202	CLA	C3A-C2A-CAA-CBA
30	20	202	CLA	CHA-CBD-CGD-O1D
30	20	202	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
30	20	204	CLA	C1A-C2A-CAA-CBA
30	20	207	CLA	C1A-C2A-CAA-CBA
30	20	208	CLA	C1A-C2A-CAA-CBA
30	20	209	CLA	C1A-C2A-CAA-CBA
30	20	209	CLA	C3A-C2A-CAA-CBA
30	21	301	CLA	C1A-C2A-CAA-CBA
30	21	302	CLA	C1A-C2A-CAA-CBA
30	21	302	CLA	CBD-CGD-O2D-CED
30	21	303	CLA	C1A-C2A-CAA-CBA
30	21	306	CLA	C1A-C2A-CAA-CBA
30	21	306	CLA	C3A-C2A-CAA-CBA
32	A	405	BCR	C7-C8-C9-C10
32	A	405	BCR	C35-C13-C14-C15
32	A	405	BCR	C14-C15-C16-C17
32	A	405	BCR	C16-C17-C18-C19
32	A	405	BCR	C16-C17-C18-C36
32	A	405	BCR	C18-C19-C20-C21
32	A	409	BCR	C6-C7-C8-C9
32	A	409	BCR	C7-C8-C9-C10
32	A	409	BCR	C7-C8-C9-C34
32	B	616	BCR	C23-C24-C25-C30
32	B	617	BCR	C1-C6-C7-C8
32	B	617	BCR	C7-C8-C9-C10
32	B	617	BCR	C20-C21-C22-C37
32	B	618	BCR	C1-C6-C7-C8
32	B	618	BCR	C7-C8-C9-C10
32	B	624	BCR	C6-C7-C8-C9
32	B	624	BCR	C7-C8-C9-C10
32	B	624	BCR	C10-C11-C12-C13
32	B	624	BCR	C11-C12-C13-C35
32	B	624	BCR	C16-C17-C18-C36
32	B	624	BCR	C20-C21-C22-C23
32	B	624	BCR	C20-C21-C22-C37
32	C	515	BCR	C1-C6-C7-C8
32	C	515	BCR	C22-C23-C24-C25
32	C	518	BCR	C1-C6-C7-C8
32	C	518	BCR	C21-C22-C23-C24
32	F	101	BCR	C7-C8-C9-C10
32	F	101	BCR	C11-C10-C9-C34
32	F	101	BCR	C35-C13-C14-C15
32	F	101	BCR	C16-C17-C18-C36
32	F	101	BCR	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
32	F	101	BCR	C37-C22-C23-C24
32	F	101	BCR	C22-C23-C24-C25
32	H	101	BCR	C1-C6-C7-C8
32	H	101	BCR	C20-C21-C22-C37
32	H	101	BCR	C37-C22-C23-C24
32	Y	101	BCR	C7-C8-C9-C34
32	Y	101	BCR	C11-C12-C13-C35
32	Y	101	BCR	C17-C18-C19-C20
32	Y	101	BCR	C18-C19-C20-C21
32	Y	101	BCR	C21-C22-C23-C24
32	Z	101	BCR	C11-C12-C13-C14
32	Z	101	BCR	C11-C12-C13-C35
32	Z	101	BCR	C16-C17-C18-C36
32	Z	101	BCR	C21-C22-C23-C24
32	Z	101	BCR	C23-C24-C25-C30
32	a	404	BCR	C7-C8-C9-C10
32	a	404	BCR	C35-C13-C14-C15
32	a	404	BCR	C14-C15-C16-C17
32	a	404	BCR	C16-C17-C18-C19
32	a	404	BCR	C16-C17-C18-C36
32	a	404	BCR	C18-C19-C20-C21
32	a	408	BCR	C6-C7-C8-C9
32	a	408	BCR	C7-C8-C9-C10
32	a	408	BCR	C7-C8-C9-C34
32	b	616	BCR	C1-C6-C7-C8
32	b	616	BCR	C7-C8-C9-C10
32	b	616	BCR	C20-C21-C22-C37
32	b	617	BCR	C1-C6-C7-C8
32	b	617	BCR	C7-C8-C9-C10
32	b	623	BCR	C6-C7-C8-C9
32	b	623	BCR	C7-C8-C9-C10
32	b	623	BCR	C10-C11-C12-C13
32	b	623	BCR	C11-C12-C13-C35
32	b	623	BCR	C16-C17-C18-C36
32	b	623	BCR	C20-C21-C22-C23
32	b	623	BCR	C20-C21-C22-C37
32	c	515	BCR	C11-C12-C13-C14
32	c	515	BCR	C11-C12-C13-C35
32	c	515	BCR	C16-C17-C18-C36
32	c	515	BCR	C21-C22-C23-C24
32	c	515	BCR	C23-C24-C25-C30
32	c	516	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
32	c	516	BCR	C22-C23-C24-C25
32	c	520	BCR	C7-C8-C9-C34
32	c	520	BCR	C11-C12-C13-C35
32	c	520	BCR	C17-C18-C19-C20
32	c	520	BCR	C18-C19-C20-C21
32	c	520	BCR	C21-C22-C23-C24
32	c	521	BCR	C1-C6-C7-C8
32	c	521	BCR	C21-C22-C23-C24
32	f	101	BCR	C7-C8-C9-C10
32	f	101	BCR	C11-C10-C9-C34
32	f	101	BCR	C35-C13-C14-C15
32	f	101	BCR	C16-C17-C18-C36
32	f	101	BCR	C21-C22-C23-C24
32	f	101	BCR	C37-C22-C23-C24
32	f	101	BCR	C22-C23-C24-C25
32	h	101	BCR	C1-C6-C7-C8
32	h	101	BCR	C20-C21-C22-C37
32	h	101	BCR	C37-C22-C23-C24
32	m	103	BCR	C23-C24-C25-C30
33	A	406	SQD	C5-C6-S-O7
33	B	621	SQD	C2-C1-O6-C44
33	L	103	SQD	O5-C1-O6-C44
33	L	103	SQD	C8-C7-O47-C45
33	L	103	SQD	O5-C5-C6-S
33	a	405	SQD	C5-C6-S-O7
33	b	620	SQD	C2-C1-O6-C44
33	l	101	SQD	O5-C1-O6-C44
33	l	101	SQD	C8-C7-O47-C45
33	l	101	SQD	O5-C5-C6-S
35	A	408	LHG	C3-O3-P-O5
35	A	408	LHG	C4-O6-P-O3
35	B	622	LHG	C3-O3-P-O4
35	B	622	LHG	C4-O6-P-O4
35	L	101	LHG	O1-C1-C2-C3
35	L	101	LHG	C3-O3-P-O4
35	L	101	LHG	C3-O3-P-O6
35	L	102	LHG	C4-O6-P-O5
35	a	407	LHG	C3-O3-P-O5
35	a	407	LHG	C4-O6-P-O3
35	b	621	LHG	C3-O3-P-O4
35	b	621	LHG	C4-O6-P-O4
35	d	409	LHG	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
35	d	409	LHG	C3-O3-P-O4
35	d	409	LHG	C3-O3-P-O6
35	l	102	LHG	C4-O6-P-O5
36	M	102	LMG	O9-C10-O7-C8
36	W	101	LMG	O6-C1-O1-C7
36	W	101	LMG	O1-C7-C8-O7
36	l	101	LMG	O6-C1-O1-C7
36	m	102	LMG	O9-C10-O7-C8
36	w	101	LMG	O6-C1-O1-C7
36	w	101	LMG	O1-C7-C8-O7
36	12	301	LMG	O6-C1-O1-C7
37	12	302	LMU	C2-C1-O1'-C1'
40	D	404	PL9	C7-C8-C9-C11
40	D	404	PL9	C24-C26-C27-C28
40	D	404	PL9	C37-C38-C39-C40
40	D	404	PL9	C44-C46-C47-C48
40	D	407	PL9	C12-C13-C14-C16
40	D	407	PL9	C42-C43-C44-C45
40	d	405	PL9	C7-C8-C9-C11
40	d	405	PL9	C24-C26-C27-C28
40	d	405	PL9	C37-C38-C39-C40
40	d	405	PL9	C44-C46-C47-C48
40	d	408	PL9	C12-C13-C14-C16
40	d	408	PL9	C42-C43-C44-C45
41	F	102	HEM	C1A-C2A-CAA-CBA
41	F	102	HEM	C3A-C2A-CAA-CBA
41	f	102	HEM	C1A-C2A-CAA-CBA
41	f	102	HEM	C3A-C2A-CAA-CBA
42	11	310	A86	C39-C38-O4-C34
42	11	310	A86	C5-C6-C8-C9
42	11	310	A86	C7-C6-C8-C9
42	11	312	A86	C26-C27-C29-C30
42	11	312	A86	C28-C27-C29-C30
42	11	312	A86	C35-C34-O4-C38
42	11	313	A86	C2-C1-C24-C25
42	11	313	A86	C12-C11-C13-O
42	11	314	A86	C24-C25-C26-C27
42	11	314	A86	C39-C38-O4-C34
42	11	314	A86	O5-C38-O4-C34
42	11	316	A86	C11-C13-C14-C15
42	11	316	A86	C13-C14-C15-C16
42	11	316	A86	C39-C38-O4-C34

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Mol	Chain	Res	Type	Atoms
42	11	316	A86	O5-C38-O4-C34
42	12	304	A86	C11-C13-C14-C15
42	12	304	A86	C13-C14-C15-C16
42	12	304	A86	C39-C38-O4-C34
42	12	304	A86	O5-C38-O4-C34
42	12	315	A86	C39-C38-O4-C34
42	12	315	A86	C5-C6-C8-C9
42	12	315	A86	C7-C6-C8-C9
42	12	317	A86	C26-C27-C29-C30
42	12	317	A86	C28-C27-C29-C30
42	12	317	A86	C35-C34-O4-C38
42	12	318	A86	C2-C1-C24-C25
42	12	318	A86	C12-C11-C13-O
42	12	319	A86	C24-C25-C26-C27
42	12	319	A86	C39-C38-O4-C34
42	12	319	A86	O5-C38-O4-C34
42	13	301	A86	C11-C13-C14-C15
42	13	301	A86	C13-C14-C15-C16
42	13	301	A86	C39-C38-O4-C34
42	13	301	A86	O5-C38-O4-C34
42	13	311	A86	C39-C38-O4-C34
42	13	311	A86	C5-C6-C8-C9
42	13	311	A86	C7-C6-C8-C9
42	13	313	A86	C26-C27-C29-C30
42	13	313	A86	C28-C27-C29-C30
42	13	313	A86	C35-C34-O4-C38
42	13	314	A86	C2-C1-C24-C25
42	13	314	A86	C12-C11-C13-O
42	13	315	A86	C11-C13-C14-C15
42	13	315	A86	C13-C14-C15-C16
42	13	315	A86	C39-C38-O4-C34
42	13	315	A86	O5-C38-O4-C34
42	14	301	A86	C24-C25-C26-C27
42	14	301	A86	C39-C38-O4-C34
42	14	301	A86	O5-C38-O4-C34
42	14	312	A86	C39-C38-O4-C34
42	14	312	A86	C5-C6-C8-C9
42	14	312	A86	C7-C6-C8-C9
42	14	314	A86	C26-C27-C29-C30
42	14	314	A86	C28-C27-C29-C30
42	14	314	A86	C35-C34-O4-C38
42	14	315	A86	C2-C1-C24-C25

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Mol	Chain	Res	Type	Atoms
42	14	315	A86	C12-C11-C13-O
42	14	316	A86	C24-C25-C26-C27
42	14	316	A86	C39-C38-O4-C34
42	14	316	A86	O5-C38-O4-C34
42	15	310	A86	C39-C38-O4-C34
42	15	310	A86	C5-C6-C8-C9
42	15	310	A86	C7-C6-C8-C9
42	15	312	A86	C26-C27-C29-C30
42	15	312	A86	C28-C27-C29-C30
42	15	312	A86	C35-C34-O4-C38
42	15	313	A86	C2-C1-C24-C25
42	15	313	A86	C12-C11-C13-O
42	15	314	A86	C24-C25-C26-C27
42	15	314	A86	C39-C38-O4-C34
42	15	314	A86	O5-C38-O4-C34
42	15	315	A86	C11-C13-C14-C15
42	15	315	A86	C13-C14-C15-C16
42	15	315	A86	C39-C38-O4-C34
42	15	315	A86	O5-C38-O4-C34
42	15	316	A86	C11-C13-C14-C15
42	15	316	A86	C13-C14-C15-C16
42	15	316	A86	C39-C38-O4-C34
42	15	316	A86	O5-C38-O4-C34
42	16	310	A86	C13-C14-C15-C16
42	16	310	A86	C26-C27-C29-C30
42	16	310	A86	C28-C27-C29-C30
42	16	312	A86	C26-C27-C29-C30
42	16	312	A86	C28-C27-C29-C30
42	16	312	A86	C35-C34-O4-C38
42	16	313	A86	C24-C25-C26-C27
42	16	313	A86	C39-C38-O4-C34
42	16	313	A86	O5-C38-O4-C34
42	17	302	A86	C-C1-C24-C25
42	17	302	A86	C2-C1-C24-C25
42	17	302	A86	C10-C11-C13-O
42	17	302	A86	C12-C11-C13-O
42	17	302	A86	C11-C13-C14-C15
42	17	302	A86	C1-C2-C3-C4
42	17	302	A86	C39-C38-O4-C34
42	17	302	A86	O5-C38-O4-C34
42	17	311	A86	C28-C27-C29-C30
42	17	311	A86	C39-C38-O4-C34

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Mol	Chain	Res	Type	Atoms
42	17	311	A86	O5-C38-O4-C34
42	17	311	A86	C5-C6-C8-C9
42	17	311	A86	C7-C6-C8-C9
42	17	313	A86	C26-C27-C29-C30
42	17	313	A86	C28-C27-C29-C30
42	17	313	A86	C35-C34-O4-C38
42	17	314	A86	C2-C1-C24-C25
42	17	314	A86	C12-C11-C13-O
42	17	315	A86	C13-C14-C15-C16
42	17	315	A86	C1-C2-C3-C4
42	17	315	A86	C39-C38-O4-C34
42	17	316	A86	C24-C25-C26-C27
42	17	316	A86	C39-C38-O4-C34
42	17	316	A86	O5-C38-O4-C34
42	18	302	A86	C11-C13-C14-C15
42	18	302	A86	C13-C14-C15-C16
42	18	302	A86	C39-C38-O4-C34
42	18	302	A86	O5-C38-O4-C34
42	18	313	A86	C39-C38-O4-C34
42	18	313	A86	C5-C6-C8-C9
42	18	313	A86	C7-C6-C8-C9
42	18	315	A86	C2-C1-C24-C25
42	18	315	A86	C12-C11-C13-O
42	19	310	A86	C13-C14-C15-C16
42	19	310	A86	C1-C2-C3-C4
42	19	310	A86	O5-C38-O4-C34
42	19	310	A86	C5-C6-C8-C9
42	19	310	A86	C7-C6-C8-C9
42	19	311	A86	C12-C11-C13-C14
42	19	311	A86	O-C13-C14-C15
42	19	311	A86	C11-C13-C14-C15
42	19	311	A86	C13-C14-C15-C16
42	19	311	A86	C13-C14-C15-C20
42	19	311	A86	C33-C34-O4-C38
42	19	312	A86	C11-C10-C9-C8
42	19	312	A86	C26-C27-C29-C30
42	19	312	A86	C28-C27-C29-C30
42	19	312	A86	C5-C6-C8-C9
42	19	312	A86	C7-C6-C8-C9
42	20	201	A86	C1-C2-C3-C4
42	20	210	A86	C-C1-C24-C25
42	20	210	A86	C2-C1-C24-C25

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Mol	Chain	Res	Type	Atoms
42	20	210	A86	C13-C14-C15-C16
42	20	210	A86	C26-C27-C29-C30
42	20	210	A86	C28-C27-C29-C30
42	20	210	A86	C39-C38-O4-C34
42	20	210	A86	C3-C4-C5-C6
42	20	210	A86	C5-C6-C8-C9
42	20	211	A86	C13-C14-C15-C16
42	20	212	A86	C11-C13-C14-C15
42	20	212	A86	C13-C14-C15-O1
42	20	212	A86	C35-C34-O4-C38
42	20	213	A86	C2-C1-C24-C25
42	20	213	A86	C13-C14-C15-O1
42	20	213	A86	C1-C2-C3-C4
42	20	213	A86	C39-C38-O4-C34
42	20	213	A86	O5-C38-O4-C34
42	20	213	A86	C5-C6-C8-C9
42	20	213	A86	C7-C6-C8-C9
42	21	310	A86	C24-C25-C26-C27
42	21	310	A86	C39-C38-O4-C34
42	21	310	A86	O5-C38-O4-C34
42	21	311	A86	C13-C14-C15-C16
42	21	312	A86	C35-C34-O4-C38
42	21	312	A86	C5-C6-C8-C9
42	21	312	A86	C7-C6-C8-C9
42	21	313	A86	C13-C14-C15-C16
42	21	313	A86	C24-C25-C26-C27
42	21	313	A86	C26-C27-C29-C30
42	21	313	A86	C28-C27-C29-C30
42	21	313	A86	C39-C38-O4-C34
42	21	313	A86	C5-C6-C8-C9
42	21	313	A86	C7-C6-C8-C9
42	21	314	A86	C2-C1-C24-C25
42	21	314	A86	C13-C14-C15-O1
42	21	314	A86	C1-C2-C3-C4
42	21	314	A86	C39-C38-O4-C34
42	21	314	A86	O5-C38-O4-C34
42	21	314	A86	C5-C6-C8-C9
42	21	314	A86	C7-C6-C8-C9
42	11	311	A86	C39-C38-O4-C34
42	11	312	A86	C39-C38-O4-C34
42	12	316	A86	C39-C38-O4-C34
42	12	317	A86	C39-C38-O4-C34

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Mol	Chain	Res	Type	Atoms
42	13	312	A86	C39-C38-O4-C34
42	13	313	A86	C39-C38-O4-C34
42	14	313	A86	C39-C38-O4-C34
42	14	314	A86	C39-C38-O4-C34
42	15	311	A86	C39-C38-O4-C34
42	15	312	A86	C39-C38-O4-C34
42	16	311	A86	C39-C38-O4-C34
42	16	312	A86	C39-C38-O4-C34
42	17	312	A86	C39-C38-O4-C34
42	17	313	A86	C39-C38-O4-C34
42	17	315	A86	O5-C38-O4-C34
42	18	314	A86	C39-C38-O4-C34
42	19	310	A86	C39-C38-O4-C34
42	20	201	A86	C39-C38-O4-C34
30	16	302	CLA	O1D-CGD-O2D-CED
30	16	303	CLA	O1D-CGD-O2D-CED
30	18	304	CLA	O1D-CGD-O2D-CED
30	19	302	CLA	O1D-CGD-O2D-CED
30	19	304	CLA	O1D-CGD-O2D-CED
30	20	208	CLA	O1D-CGD-O2D-CED
42	11	310	A86	O5-C38-O4-C34
42	12	315	A86	O5-C38-O4-C34
42	13	311	A86	O5-C38-O4-C34
42	14	312	A86	O5-C38-O4-C34
42	15	310	A86	O5-C38-O4-C34
42	16	310	A86	C39-C38-O4-C34
42	18	313	A86	O5-C38-O4-C34
42	20	210	A86	O5-C38-O4-C34
42	21	313	A86	O5-C38-O4-C34
30	A	402	CLA	O1D-CGD-O2D-CED
30	C	510	CLA	O1D-CGD-O2D-CED
30	a	402	CLA	O1D-CGD-O2D-CED
30	c	510	CLA	O1D-CGD-O2D-CED
30	11	304	CLA	O1D-CGD-O2D-CED
30	11	305	CLA	O1D-CGD-O2D-CED
30	12	308	CLA	O1D-CGD-O2D-CED
30	12	309	CLA	O1D-CGD-O2D-CED
30	13	305	CLA	O1D-CGD-O2D-CED
30	13	306	CLA	O1D-CGD-O2D-CED
30	14	306	CLA	O1D-CGD-O2D-CED
30	14	307	CLA	O1D-CGD-O2D-CED
30	15	302	CLA	O1D-CGD-O2D-CED

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
30	15	303	CLA	O1D-CGD-O2D-CED
30	17	304	CLA	O1D-CGD-O2D-CED
30	17	309	CLA	O1D-CGD-O2D-CED
30	18	305	CLA	O1D-CGD-O2D-CED
30	18	306	CLA	O1D-CGD-O2D-CED
30	18	311	CLA	O1D-CGD-O2D-CED
30	20	204	CLA	O1D-CGD-O2D-CED
30	B	603	CLA	CBD-CGD-O2D-CED
30	B	604	CLA	CBD-CGD-O2D-CED
30	C	508	CLA	CBD-CGD-O2D-CED
30	C	520	CLA	CBD-CGD-O2D-CED
30	W	103	CLA	CBD-CGD-O2D-CED
30	b	603	CLA	CBD-CGD-O2D-CED
30	b	604	CLA	CBD-CGD-O2D-CED
30	c	508	CLA	CBD-CGD-O2D-CED
30	w	103	CLA	CBD-CGD-O2D-CED
30	11	301	CLA	CBD-CGD-O2D-CED
30	11	304	CLA	CBD-CGD-O2D-CED
30	11	305	CLA	CBD-CGD-O2D-CED
30	12	305	CLA	CBD-CGD-O2D-CED
30	12	308	CLA	CBD-CGD-O2D-CED
30	12	309	CLA	CBD-CGD-O2D-CED
30	13	302	CLA	CBD-CGD-O2D-CED
30	13	305	CLA	CBD-CGD-O2D-CED
30	13	306	CLA	CBD-CGD-O2D-CED
30	14	303	CLA	CBD-CGD-O2D-CED
30	14	306	CLA	CBD-CGD-O2D-CED
30	14	307	CLA	CBD-CGD-O2D-CED
30	15	303	CLA	CBD-CGD-O2D-CED
30	15	304	CLA	CBD-CGD-O2D-CED
30	15	306	CLA	CBD-CGD-O2D-CED
30	15	307	CLA	CBD-CGD-O2D-CED
30	16	305	CLA	CBD-CGD-O2D-CED
30	16	306	CLA	CBD-CGD-O2D-CED
30	17	303	CLA	CBD-CGD-O2D-CED
30	17	309	CLA	CBD-CGD-O2D-CED
30	18	305	CLA	CBD-CGD-O2D-CED
30	18	306	CLA	CBD-CGD-O2D-CED
30	18	311	CLA	CBD-CGD-O2D-CED
30	19	301	CLA	CBD-CGD-O2D-CED
30	19	304	CLA	CBD-CGD-O2D-CED
30	20	204	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	20	205	CLA	CBD-CGD-O2D-CED
30	20	208	CLA	CBD-CGD-O2D-CED
30	21	301	CLA	CBD-CGD-O2D-CED
30	21	304	CLA	CBD-CGD-O2D-CED
30	21	307	CLA	CBD-CGD-O2D-CED
30	15	307	CLA	O1A-CGA-O2A-C1
30	21	301	CLA	O1A-CGA-O2A-C1
30	15	304	CLA	O1D-CGD-O2D-CED
30	19	301	CLA	O1D-CGD-O2D-CED
30	B	611	CLA	O1D-CGD-O2D-CED
30	C	504	CLA	O1D-CGD-O2D-CED
30	C	514	CLA	O1D-CGD-O2D-CED
30	W	103	CLA	O1D-CGD-O2D-CED
30	b	611	CLA	O1D-CGD-O2D-CED
30	c	504	CLA	O1D-CGD-O2D-CED
30	c	514	CLA	O1D-CGD-O2D-CED
30	w	103	CLA	O1D-CGD-O2D-CED
30	17	303	CLA	O1D-CGD-O2D-CED
30	21	302	CLA	O1D-CGD-O2D-CED
30	21	304	CLA	O1D-CGD-O2D-CED
30	21	301	CLA	CBA-CGA-O2A-C1
40	D	404	PL9	C47-C48-C49-C50
40	D	404	PL9	C47-C48-C49-C51
40	d	405	PL9	C47-C48-C49-C50
40	d	405	PL9	C47-C48-C49-C51
30	B	602	CLA	CBD-CGD-O2D-CED
30	B	609	CLA	CBD-CGD-O2D-CED
30	B	614	CLA	CBD-CGD-O2D-CED
30	C	507	CLA	CBD-CGD-O2D-CED
30	b	602	CLA	CBD-CGD-O2D-CED
30	b	609	CLA	CBD-CGD-O2D-CED
30	b	614	CLA	CBD-CGD-O2D-CED
30	c	507	CLA	CBD-CGD-O2D-CED
30	11	303	CLA	CBD-CGD-O2D-CED
30	11	309	CLA	CBD-CGD-O2D-CED
30	12	307	CLA	CBD-CGD-O2D-CED
30	12	314	CLA	CBD-CGD-O2D-CED
30	13	304	CLA	CBD-CGD-O2D-CED
30	13	310	CLA	CBD-CGD-O2D-CED
30	14	305	CLA	CBD-CGD-O2D-CED
30	14	311	CLA	CBD-CGD-O2D-CED
30	15	301	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	15	309	CLA	CBD-CGD-O2D-CED
30	16	301	CLA	CBD-CGD-O2D-CED
30	16	308	CLA	CBD-CGD-O2D-CED
30	17	310	CLA	CBD-CGD-O2D-CED
30	18	308	CLA	CBD-CGD-O2D-CED
30	18	312	CLA	CBD-CGD-O2D-CED
30	19	305	CLA	CBD-CGD-O2D-CED
30	21	308	CLA	CBD-CGD-O2D-CED
42	20	201	A86	O5-C38-O4-C34
30	B	615	CLA	O1A-CGA-O2A-C1
30	b	615	CLA	O1A-CGA-O2A-C1
30	15	301	CLA	O1A-CGA-O2A-C1
30	15	303	CLA	O1A-CGA-O2A-C1
30	17	305	CLA	O1A-CGA-O2A-C1
30	17	308	CLA	O1A-CGA-O2A-C1
30	18	303	CLA	O1A-CGA-O2A-C1
30	18	309	CLA	O1A-CGA-O2A-C1
30	20	204	CLA	O1A-CGA-O2A-C1
30	21	306	CLA	O1A-CGA-O2A-C1
30	17	306	CLA	O1D-CGD-O2D-CED
42	11	312	A86	O5-C38-O4-C34
42	12	317	A86	O5-C38-O4-C34
42	13	313	A86	O5-C38-O4-C34
42	14	314	A86	O5-C38-O4-C34
42	15	312	A86	O5-C38-O4-C34
42	16	312	A86	O5-C38-O4-C34
42	17	313	A86	O5-C38-O4-C34
30	B	607	CLA	CBD-CGD-O2D-CED
30	C	502	CLA	CBD-CGD-O2D-CED
30	Z	102	CLA	CBD-CGD-O2D-CED
30	b	607	CLA	CBD-CGD-O2D-CED
30	c	502	CLA	CBD-CGD-O2D-CED
30	17	305	CLA	CBD-CGD-O2D-CED
30	21	301	CLA	O1D-CGD-O2D-CED
33	L	103	SQD	O49-C7-O47-C45
33	l	101	SQD	O49-C7-O47-C45
30	B	607	CLA	C3-C5-C6-C7
30	C	513	CLA	C3-C5-C6-C7
30	M	101	CLA	C3-C5-C6-C7
30	b	607	CLA	C3-C5-C6-C7
30	c	513	CLA	C3-C5-C6-C7
30	m	101	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
30	17	303	CLA	C3-C5-C6-C7
30	19	301	CLA	C3-C5-C6-C7
30	20	204	CLA	C3-C5-C6-C7
30	B	615	CLA	CBA-CGA-O2A-C1
30	C	519	CLA	CBA-CGA-O2A-C1
30	b	615	CLA	CBA-CGA-O2A-C1
30	z	101	CLA	CBA-CGA-O2A-C1
30	15	301	CLA	CBA-CGA-O2A-C1
30	15	303	CLA	CBA-CGA-O2A-C1
30	15	307	CLA	CBA-CGA-O2A-C1
30	17	308	CLA	CBA-CGA-O2A-C1
30	18	303	CLA	CBA-CGA-O2A-C1
30	18	309	CLA	CBA-CGA-O2A-C1
30	20	204	CLA	CBA-CGA-O2A-C1
30	21	306	CLA	CBA-CGA-O2A-C1
42	11	313	A86	C39-C38-O4-C34
42	12	318	A86	C39-C38-O4-C34
42	13	314	A86	C39-C38-O4-C34
42	14	315	A86	C39-C38-O4-C34
42	15	313	A86	C39-C38-O4-C34
42	17	314	A86	C39-C38-O4-C34
42	18	315	A86	C39-C38-O4-C34
36	M	102	LMG	C11-C10-O7-C8
36	m	102	LMG	C11-C10-O7-C8
30	C	508	CLA	O1D-CGD-O2D-CED
30	c	508	CLA	O1D-CGD-O2D-CED
30	16	305	CLA	O1D-CGD-O2D-CED
30	20	205	CLA	O1D-CGD-O2D-CED
30	19	307	CLA	CBD-CGD-O2D-CED
30	20	209	CLA	CBD-CGD-O2D-CED
30	C	502	CLA	C4-C3-C5-C6
30	c	502	CLA	C4-C3-C5-C6
30	C	512	CLA	CBD-CGD-O2D-CED
30	c	512	CLA	CBD-CGD-O2D-CED
30	A	402	CLA	C2A-CAA-CBA-CGA
30	B	601	CLA	C2A-CAA-CBA-CGA
30	B	606	CLA	C2A-CAA-CBA-CGA
30	B	610	CLA	C2A-CAA-CBA-CGA
30	C	503	CLA	C2A-CAA-CBA-CGA
30	C	513	CLA	C2A-CAA-CBA-CGA
30	C	520	CLA	C2A-CAA-CBA-CGA
30	W	103	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
30	a	402	CLA	C2A-CAA-CBA-CGA
30	b	601	CLA	C2A-CAA-CBA-CGA
30	b	606	CLA	C2A-CAA-CBA-CGA
30	b	610	CLA	C2A-CAA-CBA-CGA
30	c	503	CLA	C2A-CAA-CBA-CGA
30	c	513	CLA	C2A-CAA-CBA-CGA
30	w	103	CLA	C2A-CAA-CBA-CGA
30	11	301	CLA	C2A-CAA-CBA-CGA
30	11	307	CLA	C2A-CAA-CBA-CGA
30	12	305	CLA	C2A-CAA-CBA-CGA
30	12	311	CLA	C2A-CAA-CBA-CGA
30	13	302	CLA	C2A-CAA-CBA-CGA
30	13	308	CLA	C2A-CAA-CBA-CGA
30	14	303	CLA	C2A-CAA-CBA-CGA
30	14	309	CLA	C2A-CAA-CBA-CGA
30	15	301	CLA	C2A-CAA-CBA-CGA
30	15	304	CLA	C2A-CAA-CBA-CGA
30	15	306	CLA	C2A-CAA-CBA-CGA
30	16	302	CLA	C2A-CAA-CBA-CGA
30	16	305	CLA	C2A-CAA-CBA-CGA
30	16	306	CLA	C2A-CAA-CBA-CGA
30	16	308	CLA	C2A-CAA-CBA-CGA
30	17	304	CLA	C2A-CAA-CBA-CGA
30	18	306	CLA	C2A-CAA-CBA-CGA
30	20	205	CLA	C2A-CAA-CBA-CGA
30	21	304	CLA	C2A-CAA-CBA-CGA
30	21	308	CLA	C2A-CAA-CBA-CGA
30	C	505	CLA	C3-C5-C6-C7
30	c	505	CLA	C3-C5-C6-C7
31	A	403	PHO	C3-C5-C6-C7
31	d	403	PHO	C3-C5-C6-C7
30	C	508	CLA	CBA-CGA-O2A-C1
30	c	508	CLA	CBA-CGA-O2A-C1
30	16	304	CLA	CBA-CGA-O2A-C1
30	17	305	CLA	CBA-CGA-O2A-C1
36	W	101	LMG	O6-C5-C6-O5
36	w	101	LMG	O6-C5-C6-O5
42	11	311	A86	O5-C38-O4-C34
42	12	316	A86	O5-C38-O4-C34
42	13	312	A86	O5-C38-O4-C34
42	14	313	A86	O5-C38-O4-C34
42	15	311	A86	O5-C38-O4-C34

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Mol	Chain	Res	Type	Atoms
42	16	311	A86	O5-C38-O4-C34
42	17	312	A86	O5-C38-O4-C34
42	18	314	A86	O5-C38-O4-C34
39	H	102	DGD	C4D-C5D-C6D-O5D
39	h	102	DGD	C4D-C5D-C6D-O5D
42	21	311	A86	C39-C38-O4-C34
30	11	301	CLA	O1D-CGD-O2D-CED
30	12	305	CLA	O1D-CGD-O2D-CED
30	13	302	CLA	O1D-CGD-O2D-CED
30	14	303	CLA	O1D-CGD-O2D-CED
40	D	404	PL9	C37-C38-C39-C41
40	D	407	PL9	C7-C8-C9-C11
40	D	407	PL9	C42-C43-C44-C46
40	d	405	PL9	C37-C38-C39-C41
40	d	408	PL9	C7-C8-C9-C11
40	d	408	PL9	C42-C43-C44-C46
30	C	519	CLA	O1A-CGA-O2A-C1
30	z	101	CLA	O1A-CGA-O2A-C1
30	11	301	CLA	O1A-CGA-O2A-C1
30	12	305	CLA	O1A-CGA-O2A-C1
30	13	302	CLA	O1A-CGA-O2A-C1
30	14	303	CLA	O1A-CGA-O2A-C1
30	16	304	CLA	O1A-CGA-O2A-C1
42	16	310	A86	O5-C38-O4-C34
42	20	211	A86	C39-C38-O4-C34
30	15	306	CLA	O1D-CGD-O2D-CED
30	15	307	CLA	O1D-CGD-O2D-CED
42	11	311	A86	C24-C25-C26-C27
42	12	316	A86	C24-C25-C26-C27
42	13	312	A86	C24-C25-C26-C27
42	14	313	A86	C24-C25-C26-C27
42	15	311	A86	C24-C25-C26-C27
42	16	311	A86	C24-C25-C26-C27
42	17	311	A86	C1-C2-C3-C4
42	17	311	A86	C3-C4-C5-C6
42	17	312	A86	C24-C25-C26-C27
42	18	314	A86	C24-C25-C26-C27
42	19	310	A86	C24-C25-C26-C27
42	19	310	A86	C3-C4-C5-C6
42	20	201	A86	C3-C4-C5-C6
42	20	211	A86	C3-C4-C5-C6
42	20	212	A86	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
42	21	310	A86	C1-C2-C3-C4
42	21	311	A86	C3-C4-C5-C6
42	21	312	A86	C1-C2-C3-C4
30	B	610	CLA	CBD-CGD-O2D-CED
30	B	623	CLA	CBD-CGD-O2D-CED
30	M	101	CLA	CBD-CGD-O2D-CED
30	b	610	CLA	CBD-CGD-O2D-CED
30	b	622	CLA	CBD-CGD-O2D-CED
30	m	101	CLA	CBD-CGD-O2D-CED
30	15	305	CLA	CBD-CGD-O2D-CED
30	16	307	CLA	CBD-CGD-O2D-CED
30	17	301	CLA	CBD-CGD-O2D-CED
30	18	310	CLA	CBD-CGD-O2D-CED
30	20	207	CLA	CBD-CGD-O2D-CED
30	B	603	CLA	O1D-CGD-O2D-CED
30	b	603	CLA	O1D-CGD-O2D-CED
30	C	512	CLA	CBA-CGA-O2A-C1
30	C	513	CLA	CBA-CGA-O2A-C1
30	c	512	CLA	CBA-CGA-O2A-C1
30	c	513	CLA	CBA-CGA-O2A-C1
30	11	301	CLA	CBA-CGA-O2A-C1
30	12	305	CLA	CBA-CGA-O2A-C1
30	13	302	CLA	CBA-CGA-O2A-C1
30	14	303	CLA	CBA-CGA-O2A-C1
30	16	306	CLA	O1D-CGD-O2D-CED
30	21	307	CLA	O1D-CGD-O2D-CED
31	A	403	PHO	C10-C11-C12-C13
31	d	403	PHO	C10-C11-C12-C13
30	B	604	CLA	O1D-CGD-O2D-CED
30	b	604	CLA	O1D-CGD-O2D-CED
30	C	503	CLA	CBD-CGD-O2D-CED
30	19	306	CLA	CBD-CGD-O2D-CED
30	19	309	CLA	CBD-CGD-O2D-CED
36	B	619	LMG	O6-C5-C6-O5
36	b	618	LMG	O6-C5-C6-O5
36	W	101	LMG	C4-C5-C6-O5
36	w	101	LMG	C4-C5-C6-O5
30	c	503	CLA	CBD-CGD-O2D-CED
30	B	623	CLA	C3-C5-C6-C7
30	D	401	CLA	C3-C5-C6-C7
30	b	622	CLA	C3-C5-C6-C7
30	d	401	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
30	C	508	CLA	O1A-CGA-O2A-C1
30	C	513	CLA	O1A-CGA-O2A-C1
30	c	508	CLA	O1A-CGA-O2A-C1
37	B	625	LMU	O5B-C5B-C6B-O6B
37	12	302	LMU	O5B-C5B-C6B-O6B
30	17	308	CLA	C4-C3-C5-C6
30	B	603	CLA	C2-C3-C5-C6
30	b	603	CLA	C2-C3-C5-C6
30	17	308	CLA	C2-C3-C5-C6
30	17	306	CLA	C2A-CAA-CBA-CGA
30	20	202	CLA	C2A-CAA-CBA-CGA
36	12	301	LMG	O6-C5-C6-O5
30	c	513	CLA	O1A-CGA-O2A-C1
40	D	404	PL9	C19-C21-C22-C23
40	d	405	PL9	C19-C21-C22-C23
30	A	402	CLA	CBA-CGA-O2A-C1
30	C	511	CLA	CBA-CGA-O2A-C1
30	c	511	CLA	CBA-CGA-O2A-C1
30	18	305	CLA	CBA-CGA-O2A-C1
30	19	301	CLA	CBA-CGA-O2A-C1
33	b	620	SQD	C24-C23-O48-C46
39	H	102	DGD	O6E-C5E-C6E-O5E
39	h	102	DGD	O6E-C5E-C6E-O5E
30	C	507	CLA	O1D-CGD-O2D-CED
30	C	520	CLA	O1D-CGD-O2D-CED
30	b	602	CLA	O1D-CGD-O2D-CED
30	c	507	CLA	O1D-CGD-O2D-CED
30	C	512	CLA	O1A-CGA-O2A-C1
30	c	512	CLA	O1A-CGA-O2A-C1
30	18	305	CLA	O1A-CGA-O2A-C1
30	B	602	CLA	O1D-CGD-O2D-CED
30	15	301	CLA	O1D-CGD-O2D-CED
30	15	309	CLA	O1D-CGD-O2D-CED
30	16	301	CLA	O1D-CGD-O2D-CED
30	17	310	CLA	O1D-CGD-O2D-CED
30	18	312	CLA	O1D-CGD-O2D-CED
30	19	305	CLA	O1D-CGD-O2D-CED
30	21	308	CLA	O1D-CGD-O2D-CED
30	B	614	CLA	O1D-CGD-O2D-CED
30	19	301	CLA	O1A-CGA-O2A-C1
30	B	602	CLA	C3-C5-C6-C7
30	b	602	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
30	15	303	CLA	C3-C5-C6-C7
30	16	302	CLA	C3-C5-C6-C7
30	b	614	CLA	O1D-CGD-O2D-CED
30	C	505	CLA	CBA-CGA-O2A-C1
30	C	506	CLA	CBA-CGA-O2A-C1
30	a	402	CLA	CBA-CGA-O2A-C1
30	c	505	CLA	CBA-CGA-O2A-C1
30	c	506	CLA	CBA-CGA-O2A-C1
30	20	202	CLA	CBA-CGA-O2A-C1
33	B	621	SQD	C24-C23-O48-C46
30	11	306	CLA	CBD-CGD-O2D-CED
30	12	310	CLA	CBD-CGD-O2D-CED
30	13	307	CLA	CBD-CGD-O2D-CED
30	14	308	CLA	CBD-CGD-O2D-CED
32	B	624	BCR	C15-C16-C17-C18
32	b	623	BCR	C15-C16-C17-C18
42	11	310	A86	C24-C25-C26-C27
42	11	312	A86	C24-C25-C26-C27
42	12	315	A86	C24-C25-C26-C27
42	12	317	A86	C24-C25-C26-C27
42	13	311	A86	C24-C25-C26-C27
42	13	313	A86	C24-C25-C26-C27
42	14	312	A86	C24-C25-C26-C27
42	14	314	A86	C24-C25-C26-C27
42	15	310	A86	C24-C25-C26-C27
42	15	312	A86	C24-C25-C26-C27
42	16	312	A86	C24-C25-C26-C27
42	17	313	A86	C24-C25-C26-C27
42	18	313	A86	C24-C25-C26-C27
42	19	311	A86	C1-C2-C3-C4
42	19	312	A86	C24-C25-C26-C27
42	20	201	A86	C24-C25-C26-C27
42	20	210	A86	C24-C25-C26-C27
42	20	211	A86	C1-C2-C3-C4
42	20	213	A86	C24-C25-C26-C27
42	21	311	A86	C1-C2-C3-C4
42	21	314	A86	C24-C25-C26-C27
30	B	610	CLA	C15-C16-C17-C18
30	b	610	CLA	C15-C16-C17-C18
30	b	622	CLA	C5-C6-C7-C8
30	11	307	CLA	C8-C10-C11-C12
30	12	311	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
30	13	308	CLA	C8-C10-C11-C12
30	14	309	CLA	C8-C10-C11-C12
30	B	601	CLA	C8-C10-C11-C12
30	B	611	CLA	C10-C11-C12-C13
30	B	623	CLA	C5-C6-C7-C8
30	M	101	CLA	C13-C15-C16-C17
30	W	103	CLA	C13-C15-C16-C17
30	b	601	CLA	C8-C10-C11-C12
30	b	611	CLA	C10-C11-C12-C13
30	m	101	CLA	C13-C15-C16-C17
30	w	103	CLA	C13-C15-C16-C17
30	C	511	CLA	O1A-CGA-O2A-C1
30	c	511	CLA	O1A-CGA-O2A-C1
36	B	619	LMG	C4-C5-C6-O5
36	b	618	LMG	C4-C5-C6-O5
30	C	502	CLA	C2-C3-C5-C6
30	c	502	CLA	C2-C3-C5-C6
30	B	601	CLA	C11-C10-C8-C9
30	B	604	CLA	C11-C10-C8-C9
30	B	610	CLA	C11-C12-C13-C14
30	C	506	CLA	C11-C12-C13-C14
30	C	511	CLA	C11-C12-C13-C14
30	C	519	CLA	C11-C12-C13-C14
30	M	101	CLA	C6-C7-C8-C9
30	b	601	CLA	C11-C10-C8-C9
30	b	604	CLA	C11-C10-C8-C9
30	b	610	CLA	C11-C12-C13-C14
30	c	506	CLA	C11-C12-C13-C14
30	c	511	CLA	C11-C12-C13-C14
30	m	101	CLA	C6-C7-C8-C9
30	z	101	CLA	C11-C12-C13-C14
30	16	302	CLA	C6-C7-C8-C9
30	19	307	CLA	C11-C10-C8-C9
31	A	403	PHO	C11-C10-C8-C9
31	D	403	PHO	C6-C7-C8-C9
31	d	403	PHO	C11-C10-C8-C9
31	d	404	PHO	C6-C7-C8-C9
30	B	609	CLA	O1D-CGD-O2D-CED
30	b	609	CLA	O1D-CGD-O2D-CED
32	B	624	BCR	C7-C8-C9-C34
32	B	624	BCR	C37-C22-C23-C24
32	C	515	BCR	C11-C12-C13-C35

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Mol	Chain	Res	Type	Atoms
32	C	515	BCR	C37-C22-C23-C24
32	C	518	BCR	C37-C22-C23-C24
32	F	101	BCR	C7-C8-C9-C34
32	Y	101	BCR	C37-C22-C23-C24
32	Z	101	BCR	C37-C22-C23-C24
32	b	623	BCR	C7-C8-C9-C34
32	b	623	BCR	C37-C22-C23-C24
32	c	515	BCR	C37-C22-C23-C24
32	c	516	BCR	C11-C12-C13-C35
32	c	516	BCR	C37-C22-C23-C24
32	c	520	BCR	C37-C22-C23-C24
32	c	521	BCR	C37-C22-C23-C24
32	f	101	BCR	C7-C8-C9-C34
42	11	313	A86	C-C1-C24-C25
42	12	318	A86	C-C1-C24-C25
42	13	314	A86	C-C1-C24-C25
42	14	315	A86	C-C1-C24-C25
42	15	313	A86	C-C1-C24-C25
42	17	302	A86	C7-C6-C8-C9
42	17	314	A86	C-C1-C24-C25
42	18	315	A86	C-C1-C24-C25
42	20	201	A86	C7-C6-C8-C9
42	20	210	A86	C7-C6-C8-C9
42	21	313	A86	C-C1-C24-C25
42	17	302	A86	C5-C6-C8-C9
42	20	201	A86	C5-C6-C8-C9
42	21	313	A86	C2-C1-C24-C25
36	1	101	LMG	O6-C5-C6-O5
35	L	101	LHG	C8-C7-O7-C5
35	d	409	LHG	C8-C7-O7-C5
36	12	301	LMG	C4-C5-C6-O5
39	H	102	DGD	C4E-C5E-C6E-O5E
39	h	102	DGD	C4E-C5E-C6E-O5E
30	C	506	CLA	O1A-CGA-O2A-C1
30	c	506	CLA	O1A-CGA-O2A-C1
30	B	608	CLA	C15-C16-C17-C18
30	B	615	CLA	C8-C10-C11-C12
30	b	608	CLA	C15-C16-C17-C18
30	b	615	CLA	C8-C10-C11-C12
30	z	101	CLA	C8-C10-C11-C12
30	16	304	CLA	C10-C11-C12-C13
30	16	304	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
36	Q	301	LMG	O6-C5-C6-O5
36	c	519	LMG	O6-C5-C6-O5
30	11	303	CLA	O1D-CGD-O2D-CED
30	12	307	CLA	O1D-CGD-O2D-CED
30	17	305	CLA	C3-C5-C6-C7
30	17	308	CLA	C3-C5-C6-C7
30	11	307	CLA	CBA-CGA-O2A-C1
30	12	311	CLA	CBA-CGA-O2A-C1
30	13	308	CLA	CBA-CGA-O2A-C1
30	B	615	CLA	C13-C15-C16-C17
30	C	519	CLA	C8-C10-C11-C12
30	b	615	CLA	C13-C15-C16-C17
30	b	622	CLA	C13-C15-C16-C17
30	17	303	CLA	C15-C16-C17-C18
30	17	308	CLA	C5-C6-C7-C8
31	A	403	PHO	C15-C16-C17-C18
31	d	403	PHO	C15-C16-C17-C18
36	1	101	LMG	C10-C11-C12-C13
30	13	304	CLA	O1D-CGD-O2D-CED
30	14	305	CLA	O1D-CGD-O2D-CED
30	C	513	CLA	CBD-CGD-O2D-CED
30	B	604	CLA	C8-C10-C11-C12
30	B	606	CLA	C10-C11-C12-C13
30	B	613	CLA	C10-C11-C12-C13
30	B	623	CLA	C13-C15-C16-C17
30	C	508	CLA	C8-C10-C11-C12
30	C	509	CLA	C8-C10-C11-C12
30	C	514	CLA	C8-C10-C11-C12
30	C	520	CLA	C5-C6-C7-C8
30	C	520	CLA	C10-C11-C12-C13
30	D	402	CLA	C15-C16-C17-C18
30	W	102	CLA	C10-C11-C12-C13
30	W	103	CLA	C10-C11-C12-C13
30	b	604	CLA	C8-C10-C11-C12
30	b	606	CLA	C10-C11-C12-C13
30	b	613	CLA	C10-C11-C12-C13
30	c	508	CLA	C8-C10-C11-C12
30	c	509	CLA	C8-C10-C11-C12
30	c	514	CLA	C8-C10-C11-C12
30	d	402	CLA	C15-C16-C17-C18
30	w	102	CLA	C10-C11-C12-C13
30	w	103	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
30	15	307	CLA	C8-C10-C11-C12
30	16	308	CLA	O1D-CGD-O2D-CED
40	D	407	PL9	C7-C8-C9-C10
40	d	408	PL9	C7-C8-C9-C10
35	B	622	LHG	C23-C24-C25-C26
35	L	101	LHG	C7-C8-C9-C10
35	b	621	LHG	C23-C24-C25-C26
35	d	409	LHG	C7-C8-C9-C10
36	12	301	LMG	C10-C11-C12-C13
30	c	513	CLA	CBD-CGD-O2D-CED
30	A	404	CLA	C8-C10-C11-C12
30	B	601	CLA	C5-C6-C7-C8
30	C	511	CLA	C8-C10-C11-C12
30	a	403	CLA	C8-C10-C11-C12
30	b	601	CLA	C5-C6-C7-C8
30	c	511	CLA	C8-C10-C11-C12
30	17	308	CLA	C10-C11-C12-C13
30	14	309	CLA	CBA-CGA-O2A-C1
30	C	513	CLA	C8-C10-C11-C12
30	12	314	CLA	O1D-CGD-O2D-CED
36	B	619	LMG	C28-C29-C30-C31
36	b	618	LMG	C28-C29-C30-C31
30	C	504	CLA	C5-C6-C7-C8
30	C	505	CLA	C15-C16-C17-C18
30	c	504	CLA	C5-C6-C7-C8
30	c	505	CLA	C15-C16-C17-C18
30	c	513	CLA	C8-C10-C11-C12
30	C	502	CLA	O1D-CGD-O2D-CED
30	B	615	CLA	C6-C7-C8-C10
30	C	504	CLA	C6-C7-C8-C10
30	C	505	CLA	C6-C7-C8-C10
30	Z	102	CLA	C12-C13-C15-C16
30	W	103	CLA	C12-C13-C15-C16
30	b	615	CLA	C6-C7-C8-C10
30	c	504	CLA	C6-C7-C8-C10
30	c	505	CLA	C6-C7-C8-C10
30	w	103	CLA	C12-C13-C15-C16
30	11	307	CLA	C6-C7-C8-C10
30	12	311	CLA	C6-C7-C8-C10
30	13	308	CLA	C6-C7-C8-C10
30	14	309	CLA	C6-C7-C8-C10
30	C	505	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
30	c	505	CLA	O1A-CGA-O2A-C1
42	11	313	A86	C24-C25-C26-C27
42	11	316	A86	C11-C10-C9-C8
42	12	304	A86	C11-C10-C9-C8
42	12	318	A86	C24-C25-C26-C27
42	13	301	A86	C11-C10-C9-C8
42	13	314	A86	C24-C25-C26-C27
42	13	315	A86	C11-C10-C9-C8
42	14	315	A86	C24-C25-C26-C27
42	15	313	A86	C24-C25-C26-C27
42	15	315	A86	C11-C10-C9-C8
42	15	316	A86	C11-C10-C9-C8
42	16	310	A86	C1-C2-C3-C4
42	16	310	A86	C24-C25-C26-C27
42	17	311	A86	C11-C10-C9-C8
42	17	314	A86	C24-C25-C26-C27
42	17	315	A86	C3-C4-C5-C6
42	18	302	A86	C11-C10-C9-C8
42	18	315	A86	C24-C25-C26-C27
42	20	210	A86	C11-C10-C9-C8
42	21	310	A86	C3-C4-C5-C6
42	21	312	A86	C24-C25-C26-C27
30	11	306	CLA	C2A-CAA-CBA-CGA
30	12	310	CLA	C2A-CAA-CBA-CGA
30	13	307	CLA	C2A-CAA-CBA-CGA
30	14	308	CLA	C2A-CAA-CBA-CGA
30	18	308	CLA	C2A-CAA-CBA-CGA
30	Z	102	CLA	O1D-CGD-O2D-CED
30	c	502	CLA	O1D-CGD-O2D-CED
30	11	309	CLA	O1D-CGD-O2D-CED
30	13	310	CLA	O1D-CGD-O2D-CED
30	14	311	CLA	O1D-CGD-O2D-CED
30	B	602	CLA	C5-C6-C7-C8
30	16	302	CLA	C10-C11-C12-C13
30	17	308	CLA	C8-C10-C11-C12
30	19	301	CLA	C15-C16-C17-C18
30	20	209	CLA	C5-C6-C7-C8
30	20	202	CLA	O1A-CGA-O2A-C1
30	W	102	CLA	CBD-CGD-O2D-CED
33	B	621	SQD	O5-C1-O6-C44
33	b	620	SQD	O5-C1-O6-C44
39	C	517	DGD	O6E-C1E-O5D-C6D

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Mol	Chain	Res	Type	Atoms
39	c	518	DGD	O6E-C1E-O5D-C6D
30	b	602	CLA	C5-C6-C7-C8
30	18	308	CLA	O1D-CGD-O2D-CED
40	D	404	PL9	C9-C11-C12-C13
40	D	404	PL9	C29-C31-C32-C33
40	D	404	PL9	C34-C36-C37-C38
40	D	404	PL9	C39-C41-C42-C43
40	d	405	PL9	C9-C11-C12-C13
40	d	405	PL9	C29-C31-C32-C33
40	d	405	PL9	C34-C36-C37-C38
40	d	405	PL9	C39-C41-C42-C43
32	B	617	BCR	C10-C11-C12-C13
32	F	101	BCR	C10-C11-C12-C13
32	Z	101	BCR	C10-C11-C12-C13
32	b	616	BCR	C10-C11-C12-C13
32	c	515	BCR	C10-C11-C12-C13
32	f	101	BCR	C10-C11-C12-C13
37	B	625	LMU	C4B-C5B-C6B-O6B
30	B	612	CLA	C10-C11-C12-C13
30	C	505	CLA	C8-C10-C11-C12
30	C	508	CLA	C10-C11-C12-C13
30	D	402	CLA	C10-C11-C12-C13
30	M	101	CLA	C8-C10-C11-C12
30	Z	102	CLA	C10-C11-C12-C13
30	b	612	CLA	C10-C11-C12-C13
30	c	505	CLA	C8-C10-C11-C12
30	c	508	CLA	C10-C11-C12-C13
30	d	402	CLA	C10-C11-C12-C13
30	m	101	CLA	C8-C10-C11-C12
30	18	309	CLA	C5-C6-C7-C8
30	w	102	CLA	CBD-CGD-O2D-CED
30	20	209	CLA	O1D-CGD-O2D-CED
30	A	402	CLA	O1A-CGA-O2A-C1
30	a	402	CLA	O1A-CGA-O2A-C1
30	11	307	CLA	O1A-CGA-O2A-C1
30	12	311	CLA	O1A-CGA-O2A-C1
30	13	308	CLA	O1A-CGA-O2A-C1
37	12	302	LMU	C4B-C5B-C6B-O6B
30	17	305	CLA	O1D-CGD-O2D-CED
30	C	505	CLA	C13-C15-C16-C17
30	C	507	CLA	C10-C11-C12-C13
30	C	507	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
30	C	508	CLA	C15-C16-C17-C18
30	W	102	CLA	C8-C10-C11-C12
30	c	504	CLA	C10-C11-C12-C13
30	c	507	CLA	C10-C11-C12-C13
30	c	507	CLA	C15-C16-C17-C18
30	c	508	CLA	C15-C16-C17-C18
30	w	102	CLA	C8-C10-C11-C12
30	18	310	CLA	C15-C16-C17-C18
42	13	314	A86	O5-C38-O4-C34
30	b	607	CLA	O1D-CGD-O2D-CED
30	14	309	CLA	O1A-CGA-O2A-C1
36	W	101	LMG	C11-C10-O7-C8
36	w	101	LMG	C11-C10-O7-C8
30	B	607	CLA	O1D-CGD-O2D-CED
30	B	602	CLA	C15-C16-C17-C18
30	B	608	CLA	C8-C10-C11-C12
30	B	613	CLA	C5-C6-C7-C8
30	C	504	CLA	C10-C11-C12-C13
30	C	510	CLA	C13-C15-C16-C17
30	C	519	CLA	C13-C15-C16-C17
30	b	602	CLA	C15-C16-C17-C18
30	b	608	CLA	C8-C10-C11-C12
30	b	613	CLA	C5-C6-C7-C8
30	c	505	CLA	C13-C15-C16-C17
30	c	510	CLA	C13-C15-C16-C17
30	z	101	CLA	C13-C15-C16-C17
30	16	301	CLA	C8-C10-C11-C12
30	16	301	CLA	C13-C15-C16-C17
35	B	622	LHG	C4-O6-P-O3
35	L	101	LHG	C4-O6-P-O3
35	L	102	LHG	C3-O3-P-O6
35	b	621	LHG	C4-O6-P-O3
35	d	409	LHG	C4-O6-P-O3
35	l	102	LHG	C3-O3-P-O6
42	11	313	A86	O5-C38-O4-C34
42	12	318	A86	O5-C38-O4-C34
42	14	315	A86	O5-C38-O4-C34
42	15	313	A86	O5-C38-O4-C34
42	17	314	A86	O5-C38-O4-C34
42	18	315	A86	O5-C38-O4-C34
30	B	607	CLA	CBA-CGA-O2A-C1
30	D	406	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
30	b	607	CLA	CBA-CGA-O2A-C1
30	d	407	CLA	CBA-CGA-O2A-C1
36	W	101	LMG	C29-C28-O8-C9
36	w	101	LMG	C29-C28-O8-C9
39	J	101	DGD	C2A-C1A-O1G-C1G
39	j	101	DGD	C2A-C1A-O1G-C1G
36	l	101	LMG	C4-C5-C6-O5
39	H	102	DGD	C1B-C2B-C3B-C4B
30	19	307	CLA	O1D-CGD-O2D-CED
35	A	408	LHG	O9-C7-O7-C5
35	a	407	LHG	O9-C7-O7-C5
30	D	406	CLA	C4-C3-C5-C6
30	d	407	CLA	C4-C3-C5-C6
30	D	401	CLA	C13-C15-C16-C17
30	D	405	CLA	C15-C16-C17-C18
30	d	401	CLA	C13-C15-C16-C17
30	d	406	CLA	C15-C16-C17-C18
30	18	301	CLA	CBD-CGD-O2D-CED
42	12	304	A86	C35-C34-O4-C38
42	15	315	A86	C35-C34-O4-C38
30	C	502	CLA	C2A-CAA-CBA-CGA
30	c	502	CLA	C2A-CAA-CBA-CGA
30	19	304	CLA	C2A-CAA-CBA-CGA
30	b	611	CLA	C16-C17-C18-C19
30	18	310	CLA	C16-C17-C18-C20
30	B	615	CLA	C3-C5-C6-C7
30	b	615	CLA	C3-C5-C6-C7
30	W	103	CLA	CBA-CGA-O2A-C1
30	w	103	CLA	CBA-CGA-O2A-C1
36	B	620	LMG	C29-C28-O8-C9
36	b	619	LMG	C29-C28-O8-C9
36	B	620	LMG	C10-C11-C12-C13
36	b	619	LMG	C10-C11-C12-C13
42	16	310	A86	C3-C4-C5-C6
42	17	302	A86	C3-C4-C5-C6
42	17	311	A86	C24-C25-C26-C27
42	11	316	A86	C35-C34-O4-C38
42	13	301	A86	C35-C34-O4-C38
42	13	315	A86	C35-C34-O4-C38
42	15	316	A86	C35-C34-O4-C38
42	18	302	A86	C35-C34-O4-C38
36	c	519	LMG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
39	h	102	DGD	C7A-C8A-C9A-CAA
30	19	307	CLA	C13-C15-C16-C17
32	B	616	BCR	C16-C17-C18-C36
32	B	616	BCR	C20-C21-C22-C37
32	B	618	BCR	C16-C17-C18-C36
32	C	515	BCR	C20-C21-C22-C37
32	Y	101	BCR	C11-C10-C9-C34
32	Z	101	BCR	C11-C10-C9-C34
32	Z	101	BCR	C20-C21-C22-C37
32	b	617	BCR	C16-C17-C18-C36
32	c	515	BCR	C11-C10-C9-C34
32	c	515	BCR	C20-C21-C22-C37
32	c	516	BCR	C20-C21-C22-C37
32	c	520	BCR	C11-C10-C9-C34
32	m	103	BCR	C16-C17-C18-C36
32	m	103	BCR	C20-C21-C22-C37
30	18	309	CLA	C3-C5-C6-C7
33	A	406	SQD	C11-C12-C13-C14
33	a	405	SQD	C11-C12-C13-C14
35	B	622	LHG	C11-C10-C9-C8
35	a	407	LHG	C29-C30-C31-C32
35	b	621	LHG	C11-C10-C9-C8
36	B	619	LMG	C31-C32-C33-C34
36	Q	301	LMG	C32-C33-C34-C35
36	b	618	LMG	C31-C32-C33-C34
36	d	410	LMG	C35-C36-C37-C38
36	12	301	LMG	C12-C13-C14-C15
37	B	625	LMU	C5-C6-C7-C8
37	12	302	LMU	C5-C6-C7-C8
39	H	102	DGD	C7A-C8A-C9A-CAA
30	B	611	CLA	C16-C17-C18-C19
33	A	406	SQD	C10-C11-C12-C13
33	a	405	SQD	C10-C11-C12-C13
35	A	408	LHG	C29-C30-C31-C32
35	a	407	LHG	C15-C16-C17-C18
36	D	408	LMG	C35-C36-C37-C38
33	L	103	SQD	C46-C45-O47-C7
33	l	101	SQD	C46-C45-O47-C7
30	C	512	CLA	O1D-CGD-O2D-CED
39	h	102	DGD	C1B-C2B-C3B-C4B
30	20	203	CLA	CBD-CGD-O2D-CED
35	A	408	LHG	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
35	l	102	LHG	C16-C17-C18-C19
36	l	101	LMG	C12-C13-C14-C15
30	c	512	CLA	O1D-CGD-O2D-CED
30	18	310	CLA	O1D-CGD-O2D-CED
33	L	103	SQD	C15-C16-C17-C18
33	l	101	SQD	C15-C16-C17-C18
35	L	102	LHG	C16-C17-C18-C19
36	W	101	LMG	C20-C21-C22-C23
30	20	207	CLA	O1D-CGD-O2D-CED
33	L	103	SQD	C32-C33-C34-C35
33	l	101	SQD	C32-C33-C34-C35
36	M	102	LMG	C15-C16-C17-C18
36	M	102	LMG	C33-C34-C35-C36
36	m	102	LMG	C15-C16-C17-C18
36	m	102	LMG	C33-C34-C35-C36
36	w	101	LMG	C20-C21-C22-C23
35	L	102	LHG	C23-C24-C25-C26
35	l	102	LHG	C23-C24-C25-C26
36	B	620	LMG	C28-C29-C30-C31
36	b	619	LMG	C28-C29-C30-C31
32	A	405	BCR	C20-C21-C22-C23
32	B	624	BCR	C12-C13-C14-C15
32	B	624	BCR	C16-C17-C18-C19
32	F	101	BCR	C20-C21-C22-C23
32	Y	101	BCR	C12-C13-C14-C15
32	Y	101	BCR	C20-C21-C22-C23
32	Z	101	BCR	C12-C13-C14-C15
32	Z	101	BCR	C16-C17-C18-C19
32	a	404	BCR	C20-C21-C22-C23
32	b	623	BCR	C12-C13-C14-C15
32	b	623	BCR	C16-C17-C18-C19
32	c	515	BCR	C12-C13-C14-C15
32	c	515	BCR	C16-C17-C18-C19
32	c	520	BCR	C12-C13-C14-C15
32	c	520	BCR	C20-C21-C22-C23
32	f	101	BCR	C20-C21-C22-C23
39	C	517	DGD	C2E-C1E-O5D-C6D
39	J	101	DGD	C2E-C1E-O5D-C6D
39	c	518	DGD	C2E-C1E-O5D-C6D
39	j	101	DGD	C2E-C1E-O5D-C6D
30	B	612	CLA	CBA-CGA-O2A-C1
30	b	612	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
39	C	517	DGD	C2A-C3A-C4A-C5A
39	c	518	DGD	C2A-C3A-C4A-C5A
30	A	404	CLA	C5-C6-C7-C8
30	a	403	CLA	C5-C6-C7-C8
30	B	607	CLA	O1A-CGA-O2A-C1
30	W	103	CLA	O1A-CGA-O2A-C1
30	b	607	CLA	O1A-CGA-O2A-C1
30	w	103	CLA	O1A-CGA-O2A-C1
36	M	102	LMG	O10-C28-O8-C9
36	m	102	LMG	O10-C28-O8-C9
30	B	605	CLA	C16-C17-C18-C20
30	b	605	CLA	C16-C17-C18-C20
30	15	305	CLA	O1D-CGD-O2D-CED
30	C	507	CLA	C4-C3-C5-C6
30	c	507	CLA	C4-C3-C5-C6
35	l	102	LHG	C32-C33-C34-C35
30	C	504	CLA	C6-C7-C8-C9
30	c	504	CLA	C6-C7-C8-C9
30	21	303	CLA	CBD-CGD-O2D-CED
35	A	408	LHG	C23-C24-C25-C26
35	a	407	LHG	C23-C24-C25-C26
33	L	103	SQD	C33-C34-C35-C36
33	l	101	SQD	C33-C34-C35-C36
35	L	102	LHG	C32-C33-C34-C35
35	a	407	LHG	C28-C29-C30-C31
36	D	408	LMG	C36-C37-C38-C39
36	d	410	LMG	C36-C37-C38-C39
30	D	406	CLA	O1A-CGA-O2A-C1
30	d	407	CLA	O1A-CGA-O2A-C1
42	17	315	A86	C7-C6-C8-C9
42	19	311	A86	C7-C6-C8-C9
42	20	212	A86	C-C1-C24-C25
42	20	213	A86	C-C1-C24-C25
42	21	314	A86	C-C1-C24-C25
35	A	408	LHG	C28-C29-C30-C31
35	L	101	LHG	C24-C25-C26-C27
35	d	409	LHG	C24-C25-C26-C27
36	D	408	LMG	C30-C31-C32-C33
36	W	101	LMG	C19-C20-C21-C22
32	B	616	BCR	C21-C22-C23-C24
32	B	624	BCR	C21-C22-C23-C24
32	Y	101	BCR	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
32	b	623	BCR	C21-C22-C23-C24
32	c	520	BCR	C11-C12-C13-C14
32	m	103	BCR	C21-C22-C23-C24
42	17	315	A86	C5-C6-C8-C9
42	19	311	A86	C5-C6-C8-C9
42	20	212	A86	C2-C1-C24-C25
30	16	304	CLA	C3-C5-C6-C7
35	L	101	LHG	C25-C26-C27-C28
35	d	409	LHG	C25-C26-C27-C28
36	M	102	LMG	C14-C15-C16-C17
36	W	101	LMG	C14-C15-C16-C17
36	d	410	LMG	C30-C31-C32-C33
36	m	102	LMG	C14-C15-C16-C17
36	m	102	LMG	C31-C32-C33-C34
36	w	101	LMG	C14-C15-C16-C17
36	w	101	LMG	C19-C20-C21-C22
42	20	211	A86	O5-C38-O4-C34
42	21	311	A86	O5-C38-O4-C34
35	A	408	LHG	C7-C8-C9-C10
35	B	622	LHG	C30-C31-C32-C33
35	L	102	LHG	C28-C29-C30-C31
35	b	621	LHG	C30-C31-C32-C33
35	l	102	LHG	C28-C29-C30-C31
36	M	102	LMG	C31-C32-C33-C34
30	C	520	CLA	C16-C17-C18-C19
30	15	303	CLA	C16-C17-C18-C19
30	19	307	CLA	C16-C17-C18-C19
30	19	307	CLA	C16-C17-C18-C20
39	C	516	DGD	O6D-C1D-O3G-C3G
39	J	101	DGD	O6E-C1E-O5D-C6D
39	c	517	DGD	O6D-C1D-O3G-C3G
39	j	101	DGD	O6E-C1E-O5D-C6D
30	C	508	CLA	C13-C15-C16-C17
30	c	508	CLA	C13-C15-C16-C17
39	C	516	DGD	C3A-C4A-C5A-C6A
39	c	517	DGD	C3A-C4A-C5A-C6A
30	b	622	CLA	O1D-CGD-O2D-CED
30	17	301	CLA	O1D-CGD-O2D-CED
39	C	516	DGD	CCA-CDA-CEA-CFA
39	c	517	DGD	CCA-CDA-CEA-CFA
39	j	101	DGD	C8A-C9A-CAA-CBA
35	a	407	LHG	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
33	A	406	SQD	C32-C33-C34-C35
33	a	405	SQD	C32-C33-C34-C35
36	Q	301	LMG	C18-C19-C20-C21
36	c	519	LMG	C18-C19-C20-C21
39	J	101	DGD	C8A-C9A-CAA-CBA
39	C	516	DGD	C7B-C8B-C9B-CAB
39	c	517	DGD	C7B-C8B-C9B-CAB
39	h	102	DGD	C3A-C4A-C5A-C6A
30	B	610	CLA	O1D-CGD-O2D-CED
30	b	610	CLA	O1D-CGD-O2D-CED
30	m	101	CLA	O1D-CGD-O2D-CED
30	16	307	CLA	O1D-CGD-O2D-CED
30	B	623	CLA	C3A-C2A-CAA-CBA
30	D	405	CLA	C3A-C2A-CAA-CBA
30	W	102	CLA	C3A-C2A-CAA-CBA
30	W	103	CLA	C3A-C2A-CAA-CBA
30	d	406	CLA	C3A-C2A-CAA-CBA
30	w	102	CLA	C3A-C2A-CAA-CBA
30	w	103	CLA	C3A-C2A-CAA-CBA
30	11	303	CLA	C3A-C2A-CAA-CBA
30	11	304	CLA	C3A-C2A-CAA-CBA
30	11	306	CLA	C3A-C2A-CAA-CBA
30	11	308	CLA	C3A-C2A-CAA-CBA
30	12	307	CLA	C3A-C2A-CAA-CBA
30	12	308	CLA	C3A-C2A-CAA-CBA
30	12	310	CLA	C3A-C2A-CAA-CBA
30	12	313	CLA	C3A-C2A-CAA-CBA
30	13	304	CLA	C3A-C2A-CAA-CBA
30	13	305	CLA	C3A-C2A-CAA-CBA
30	13	307	CLA	C3A-C2A-CAA-CBA
30	13	309	CLA	C3A-C2A-CAA-CBA
30	14	305	CLA	C3A-C2A-CAA-CBA
30	14	306	CLA	C3A-C2A-CAA-CBA
30	14	308	CLA	C3A-C2A-CAA-CBA
30	14	310	CLA	C3A-C2A-CAA-CBA
30	15	302	CLA	C3A-C2A-CAA-CBA
30	15	304	CLA	C3A-C2A-CAA-CBA
30	15	306	CLA	C3A-C2A-CAA-CBA
30	15	308	CLA	C3A-C2A-CAA-CBA
30	16	303	CLA	C3A-C2A-CAA-CBA
30	16	304	CLA	C3A-C2A-CAA-CBA
30	16	305	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	16	306	CLA	C3A-C2A-CAA-CBA
30	17	304	CLA	C3A-C2A-CAA-CBA
30	17	305	CLA	C3A-C2A-CAA-CBA
30	17	306	CLA	C3A-C2A-CAA-CBA
30	17	307	CLA	C3A-C2A-CAA-CBA
30	18	305	CLA	C3A-C2A-CAA-CBA
30	18	306	CLA	C3A-C2A-CAA-CBA
30	18	308	CLA	C3A-C2A-CAA-CBA
30	18	311	CLA	C3A-C2A-CAA-CBA
30	19	304	CLA	C3A-C2A-CAA-CBA
30	19	306	CLA	C3A-C2A-CAA-CBA
30	20	205	CLA	C3A-C2A-CAA-CBA
30	20	206	CLA	C3A-C2A-CAA-CBA
30	20	207	CLA	C3A-C2A-CAA-CBA
30	20	208	CLA	C3A-C2A-CAA-CBA
30	21	302	CLA	C3A-C2A-CAA-CBA
30	21	304	CLA	C3A-C2A-CAA-CBA
30	21	305	CLA	C3A-C2A-CAA-CBA
30	21	309	CLA	C3A-C2A-CAA-CBA
30	C	504	CLA	C8-C10-C11-C12
30	c	504	CLA	C8-C10-C11-C12
30	11	307	CLA	C5-C6-C7-C8
30	12	311	CLA	C5-C6-C7-C8
30	18	309	CLA	C15-C16-C17-C18
37	B	625	LMU	C2-C1-O1'-C1'
36	W	101	LMG	C12-C13-C14-C15
36	w	101	LMG	C12-C13-C14-C15
39	H	102	DGD	C3A-C4A-C5A-C6A
30	M	101	CLA	O1D-CGD-O2D-CED
30	B	605	CLA	C16-C17-C18-C19
30	b	605	CLA	C16-C17-C18-C19
30	C	503	CLA	O1D-CGD-O2D-CED
30	c	505	CLA	CBD-CGD-O2D-CED
30	B	623	CLA	O1D-CGD-O2D-CED
30	B	601	CLA	C3-C5-C6-C7
30	b	601	CLA	C3-C5-C6-C7
30	13	308	CLA	C5-C6-C7-C8
30	14	309	CLA	C5-C6-C7-C8
30	C	511	CLA	C4-C3-C5-C6
30	c	511	CLA	C4-C3-C5-C6
30	C	507	CLA	C2-C3-C5-C6
30	C	511	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
30	c	507	CLA	C2-C3-C5-C6
30	c	511	CLA	C2-C3-C5-C6
30	C	505	CLA	CBD-CGD-O2D-CED
35	B	622	LHG	C9-C10-C11-C12
35	b	621	LHG	C9-C10-C11-C12
36	W	101	LMG	C37-C38-C39-C40
36	w	101	LMG	C37-C38-C39-C40
42	21	313	A86	C35-C34-O4-C38
39	c	518	DGD	O6E-C5E-C6E-O5E
33	L	103	SQD	C14-C15-C16-C17
33	l	101	SQD	C14-C15-C16-C17
35	A	408	LHG	C14-C15-C16-C17
35	L	101	LHG	C31-C32-C33-C34
35	a	407	LHG	C14-C15-C16-C17
35	d	409	LHG	C31-C32-C33-C34
39	C	517	DGD	O6E-C5E-C6E-O5E
30	17	301	CLA	C16-C17-C18-C20
33	B	621	SQD	C11-C10-C9-C8
33	L	103	SQD	C31-C32-C33-C34
33	l	101	SQD	C31-C32-C33-C34
36	b	619	LMG	C18-C19-C20-C21
39	C	517	DGD	CAA-CBA-CCA-CDA
30	c	503	CLA	O1D-CGD-O2D-CED
33	b	620	SQD	C11-C10-C9-C8
35	L	101	LHG	C13-C14-C15-C16
35	L	101	LHG	C29-C30-C31-C32
35	d	409	LHG	C29-C30-C31-C32
36	B	620	LMG	C18-C19-C20-C21
37	12	302	LMU	C2-C3-C4-C5
39	c	518	DGD	CAA-CBA-CCA-CDA
42	12	304	A86	C33-C34-O4-C38
42	13	301	A86	C33-C34-O4-C38
42	18	302	A86	C33-C34-O4-C38
35	d	409	LHG	C13-C14-C15-C16
36	D	408	LMG	C17-C18-C19-C20
36	Q	301	LMG	C19-C20-C21-C22
36	c	519	LMG	C19-C20-C21-C22
36	d	410	LMG	C17-C18-C19-C20
35	L	101	LHG	O9-C7-O7-C5
35	d	409	LHG	O9-C7-O7-C5
30	B	612	CLA	C2-C1-O2A-CGA
30	b	612	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
33	A	406	SQD	C12-C13-C14-C15
33	a	405	SQD	C12-C13-C14-C15
30	C	512	CLA	C5-C6-C7-C8
30	c	512	CLA	C5-C6-C7-C8
30	20	202	CLA	C8-C10-C11-C12
30	B	612	CLA	O1A-CGA-O2A-C1
30	b	612	CLA	O1A-CGA-O2A-C1
36	Q	301	LMG	C4-C5-C6-O5
33	a	405	SQD	C17-C18-C19-C20
30	15	303	CLA	C16-C17-C18-C20
30	18	310	CLA	C16-C17-C18-C19
33	L	103	SQD	C7-C8-C9-C10
33	l	101	SQD	C7-C8-C9-C10
32	A	405	BCR	C1-C6-C7-C8
32	A	405	BCR	C5-C6-C7-C8
32	A	409	BCR	C1-C6-C7-C8
32	A	409	BCR	C5-C6-C7-C8
32	B	616	BCR	C1-C6-C7-C8
32	B	616	BCR	C5-C6-C7-C8
32	B	616	BCR	C23-C24-C25-C26
32	B	617	BCR	C5-C6-C7-C8
32	B	618	BCR	C5-C6-C7-C8
32	B	624	BCR	C1-C6-C7-C8
32	B	624	BCR	C5-C6-C7-C8
32	C	515	BCR	C5-C6-C7-C8
32	C	518	BCR	C5-C6-C7-C8
32	C	518	BCR	C23-C24-C25-C26
32	C	518	BCR	C23-C24-C25-C30
32	F	101	BCR	C1-C6-C7-C8
32	F	101	BCR	C5-C6-C7-C8
32	H	101	BCR	C5-C6-C7-C8
32	Y	101	BCR	C5-C6-C7-C8
32	Z	101	BCR	C1-C6-C7-C8
32	Z	101	BCR	C5-C6-C7-C8
32	Z	101	BCR	C23-C24-C25-C26
32	a	404	BCR	C1-C6-C7-C8
32	a	404	BCR	C5-C6-C7-C8
32	a	408	BCR	C1-C6-C7-C8
32	a	408	BCR	C5-C6-C7-C8
32	b	616	BCR	C5-C6-C7-C8
32	b	617	BCR	C5-C6-C7-C8
32	b	623	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
32	b	623	BCR	C5-C6-C7-C8
32	c	515	BCR	C1-C6-C7-C8
32	c	515	BCR	C5-C6-C7-C8
32	c	515	BCR	C23-C24-C25-C26
32	c	516	BCR	C5-C6-C7-C8
32	c	520	BCR	C5-C6-C7-C8
32	c	521	BCR	C5-C6-C7-C8
32	c	521	BCR	C23-C24-C25-C26
32	c	521	BCR	C23-C24-C25-C30
32	f	101	BCR	C1-C6-C7-C8
32	f	101	BCR	C5-C6-C7-C8
32	h	101	BCR	C5-C6-C7-C8
32	m	103	BCR	C1-C6-C7-C8
32	m	103	BCR	C5-C6-C7-C8
32	m	103	BCR	C23-C24-C25-C26
33	A	406	SQD	C17-C18-C19-C20
36	b	618	LMG	C29-C30-C31-C32
30	C	504	CLA	CBA-CGA-O2A-C1
30	M	101	CLA	CBA-CGA-O2A-C1
30	c	504	CLA	CBA-CGA-O2A-C1
30	m	101	CLA	CBA-CGA-O2A-C1
42	11	316	A86	C33-C34-O4-C38
42	13	315	A86	C33-C34-O4-C38
42	15	315	A86	C33-C34-O4-C38
42	15	316	A86	C33-C34-O4-C38
30	16	301	CLA	C5-C6-C7-C8
36	c	519	LMG	C4-C5-C6-O5
36	B	619	LMG	C29-C30-C31-C32
37	B	625	LMU	C2-C3-C4-C5
36	Q	301	LMG	C10-C11-C12-C13
36	c	519	LMG	C10-C11-C12-C13
30	19	306	CLA	O1D-CGD-O2D-CED
30	C	508	CLA	C11-C10-C8-C7
30	W	102	CLA	C12-C13-C15-C16
30	W	103	CLA	C6-C7-C8-C10
30	W	103	CLA	C11-C12-C13-C15
30	c	508	CLA	C11-C10-C8-C7
30	w	102	CLA	C12-C13-C15-C16
30	w	103	CLA	C6-C7-C8-C10
30	w	103	CLA	C11-C12-C13-C15
31	A	403	PHO	C2-C3-C5-C6
31	d	403	PHO	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
40	D	404	PL9	C28-C29-C31-C32
40	d	405	PL9	C28-C29-C31-C32
30	c	510	CLA	C3-C5-C6-C7
30	M	101	CLA	O1A-CGA-O2A-C1
30	m	101	CLA	O1A-CGA-O2A-C1
33	A	406	SQD	C14-C15-C16-C17
33	a	405	SQD	C14-C15-C16-C17
42	11	316	A86	C3-C4-C5-C6
42	12	304	A86	C3-C4-C5-C6
42	13	301	A86	C3-C4-C5-C6
42	13	315	A86	C3-C4-C5-C6
42	15	315	A86	C3-C4-C5-C6
42	15	316	A86	C3-C4-C5-C6
42	18	302	A86	C3-C4-C5-C6
42	19	311	A86	C11-C10-C9-C8
42	19	312	A86	C1-C2-C3-C4
42	20	210	A86	C1-C2-C3-C4
30	20	202	CLA	CBD-CGD-O2D-CED
30	B	602	CLA	C16-C17-C18-C19
30	B	611	CLA	C16-C17-C18-C20
30	b	602	CLA	C16-C17-C18-C19
30	b	611	CLA	C16-C17-C18-C20
30	18	305	CLA	C16-C17-C18-C19
39	H	102	DGD	O6D-C5D-C6D-O5D
39	h	102	DGD	O6D-C5D-C6D-O5D
30	B	602	CLA	CBA-CGA-O2A-C1
30	Z	102	CLA	CBA-CGA-O2A-C1
30	b	602	CLA	CBA-CGA-O2A-C1
36	B	619	LMG	C29-C28-O8-C9
36	b	618	LMG	C29-C28-O8-C9
30	B	615	CLA	C2A-CAA-CBA-CGA
30	b	615	CLA	C2A-CAA-CBA-CGA
30	17	303	CLA	C2A-CAA-CBA-CGA
30	17	307	CLA	C2A-CAA-CBA-CGA
30	18	307	CLA	C2A-CAA-CBA-CGA
30	c	502	CLA	C10-C11-C12-C13
30	19	307	CLA	C8-C10-C11-C12
35	d	409	LHG	C33-C34-C35-C36
36	12	301	LMG	C32-C33-C34-C35
35	L	101	LHG	C33-C34-C35-C36
30	C	502	CLA	C10-C11-C12-C13
30	W	102	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
30	w	102	CLA	C5-C6-C7-C8
30	18	309	CLA	C10-C11-C12-C13
30	C	510	CLA	C3-C5-C6-C7
36	1	101	LMG	C32-C33-C34-C35
36	b	619	LMG	C11-C12-C13-C14
36	12	301	LMG	C14-C15-C16-C17
39	J	101	DGD	C6A-C7A-C8A-C9A
30	D	405	CLA	C5-C6-C7-C8
30	d	406	CLA	C5-C6-C7-C8
33	L	103	SQD	C17-C18-C19-C20
33	l	101	SQD	C17-C18-C19-C20
36	B	620	LMG	C11-C12-C13-C14
36	Q	301	LMG	C17-C18-C19-C20
36	c	519	LMG	C17-C18-C19-C20
39	j	101	DGD	C6A-C7A-C8A-C9A
33	A	406	SQD	C7-C8-C9-C10
33	a	405	SQD	C7-C8-C9-C10
36	B	620	LMG	C11-C10-O7-C8
36	b	619	LMG	C11-C10-O7-C8
33	L	103	SQD	C12-C13-C14-C15
33	l	101	SQD	C12-C13-C14-C15
39	C	516	DGD	C3B-C4B-C5B-C6B
30	M	101	CLA	C5-C6-C7-C8
30	b	614	CLA	C15-C16-C17-C18
30	c	507	CLA	C13-C15-C16-C17
30	21	305	CLA	CBD-CGD-O2D-CED
35	a	407	LHG	C13-C14-C15-C16
39	c	517	DGD	C3B-C4B-C5B-C6B
36	Q	301	LMG	O9-C10-O7-C8
36	W	101	LMG	O9-C10-O7-C8
36	w	101	LMG	O9-C10-O7-C8
35	A	408	LHG	C13-C14-C15-C16
37	12	302	LMU	C4-C5-C6-C7
30	B	614	CLA	C15-C16-C17-C18
30	C	507	CLA	C13-C15-C16-C17
30	c	514	CLA	C15-C16-C17-C18
30	m	101	CLA	C5-C6-C7-C8
33	B	621	SQD	O47-C45-C46-O48
33	b	620	SQD	O47-C45-C46-O48
30	14	305	CLA	CBA-CGA-O2A-C1
30	C	520	CLA	C16-C17-C18-C20
30	C	503	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
30	C	514	CLA	C15-C16-C17-C18
30	c	503	CLA	C13-C15-C16-C17
30	18	303	CLA	C8-C10-C11-C12
30	19	307	CLA	C10-C11-C12-C13
30	B	609	CLA	C2-C3-C5-C6
30	D	406	CLA	C2-C3-C5-C6
30	b	609	CLA	C2-C3-C5-C6
30	d	407	CLA	C2-C3-C5-C6
30	B	615	CLA	C6-C7-C8-C9
30	C	503	CLA	C11-C12-C13-C14
30	C	505	CLA	C6-C7-C8-C9
30	Z	102	CLA	C14-C13-C15-C16
30	W	102	CLA	C14-C13-C15-C16
30	W	103	CLA	C6-C7-C8-C9
30	b	615	CLA	C6-C7-C8-C9
30	c	503	CLA	C11-C12-C13-C14
30	c	505	CLA	C6-C7-C8-C9
30	w	102	CLA	C14-C13-C15-C16
30	w	103	CLA	C6-C7-C8-C9
30	11	307	CLA	C6-C7-C8-C9
30	12	311	CLA	C6-C7-C8-C9
30	13	308	CLA	C6-C7-C8-C9
30	14	309	CLA	C6-C7-C8-C9
30	19	303	CLA	C11-C12-C13-C14
30	20	209	CLA	C11-C10-C8-C9
30	21	307	CLA	C14-C13-C15-C16
30	C	507	CLA	C2A-CAA-CBA-CGA
30	M	101	CLA	C2A-CAA-CBA-CGA
30	c	507	CLA	C2A-CAA-CBA-CGA
30	m	101	CLA	C2A-CAA-CBA-CGA
30	15	302	CLA	C2A-CAA-CBA-CGA
35	L	101	LHG	C28-C29-C30-C31
35	d	409	LHG	C28-C29-C30-C31
36	W	101	LMG	C18-C19-C20-C21
36	w	101	LMG	C18-C19-C20-C21
42	19	310	A86	C-C1-C24-C25
42	19	310	A86	C2-C1-C24-C25
30	19	309	CLA	O1D-CGD-O2D-CED
30	A	404	CLA	C1A-C2A-CAA-CBA
30	B	604	CLA	C1A-C2A-CAA-CBA
30	B	606	CLA	C1A-C2A-CAA-CBA
30	B	607	CLA	C1A-C2A-CAA-CBA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
30	B	611	CLA	C1A-C2A-CAA-CBA
30	B	623	CLA	C1A-C2A-CAA-CBA
30	C	504	CLA	C1A-C2A-CAA-CBA
30	C	512	CLA	C1A-C2A-CAA-CBA
30	C	513	CLA	C1A-C2A-CAA-CBA
30	D	401	CLA	C1A-C2A-CAA-CBA
30	D	402	CLA	C1A-C2A-CAA-CBA
30	M	101	CLA	C1A-C2A-CAA-CBA
30	W	103	CLA	C1A-C2A-CAA-CBA
30	a	403	CLA	C1A-C2A-CAA-CBA
30	b	604	CLA	C1A-C2A-CAA-CBA
30	b	606	CLA	C1A-C2A-CAA-CBA
30	b	607	CLA	C1A-C2A-CAA-CBA
30	b	611	CLA	C1A-C2A-CAA-CBA
30	b	622	CLA	C1A-C2A-CAA-CBA
30	c	504	CLA	C1A-C2A-CAA-CBA
30	c	512	CLA	C1A-C2A-CAA-CBA
30	d	401	CLA	C1A-C2A-CAA-CBA
30	d	402	CLA	C1A-C2A-CAA-CBA
30	m	101	CLA	C1A-C2A-CAA-CBA
30	w	103	CLA	C1A-C2A-CAA-CBA
30	11	301	CLA	C1A-C2A-CAA-CBA
30	11	304	CLA	C1A-C2A-CAA-CBA
30	11	306	CLA	C1A-C2A-CAA-CBA
30	12	305	CLA	C1A-C2A-CAA-CBA
30	12	308	CLA	C1A-C2A-CAA-CBA
30	12	310	CLA	C1A-C2A-CAA-CBA
30	13	302	CLA	C1A-C2A-CAA-CBA
30	13	305	CLA	C1A-C2A-CAA-CBA
30	13	307	CLA	C1A-C2A-CAA-CBA
30	14	303	CLA	C1A-C2A-CAA-CBA
30	14	306	CLA	C1A-C2A-CAA-CBA
30	14	308	CLA	C1A-C2A-CAA-CBA
30	15	304	CLA	C1A-C2A-CAA-CBA
30	15	306	CLA	C1A-C2A-CAA-CBA
30	15	308	CLA	C1A-C2A-CAA-CBA
30	16	305	CLA	C1A-C2A-CAA-CBA
30	16	306	CLA	C1A-C2A-CAA-CBA
30	17	306	CLA	C1A-C2A-CAA-CBA
30	17	307	CLA	C1A-C2A-CAA-CBA
30	18	306	CLA	C1A-C2A-CAA-CBA
30	18	308	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	18	309	CLA	C1A-C2A-CAA-CBA
30	18	311	CLA	C1A-C2A-CAA-CBA
30	19	304	CLA	C1A-C2A-CAA-CBA
30	19	306	CLA	C1A-C2A-CAA-CBA
30	20	205	CLA	C1A-C2A-CAA-CBA
30	20	206	CLA	C1A-C2A-CAA-CBA
30	21	304	CLA	C1A-C2A-CAA-CBA
30	21	305	CLA	C1A-C2A-CAA-CBA
30	21	309	CLA	C1A-C2A-CAA-CBA
30	B	602	CLA	C16-C17-C18-C20
30	B	610	CLA	C16-C17-C18-C20
30	b	602	CLA	C16-C17-C18-C20
30	b	610	CLA	C16-C17-C18-C20
30	17	301	CLA	C16-C17-C18-C19
30	18	305	CLA	C16-C17-C18-C20
36	c	519	LMG	O9-C10-O7-C8
36	1	101	LMG	C15-C16-C17-C18
32	B	624	BCR	C13-C14-C15-C16
32	b	623	BCR	C13-C14-C15-C16
42	20	212	A86	C3-C4-C5-C6
42	20	213	A86	C11-C10-C9-C8
42	21	314	A86	C11-C10-C9-C8
30	C	507	CLA	C8-C10-C11-C12
37	12	302	LMU	C1-C2-C3-C4
35	A	408	LHG	C3-O3-P-O6
35	B	622	LHG	C3-O3-P-O6
35	a	407	LHG	C3-O3-P-O6
35	b	621	LHG	C3-O3-P-O6
35	B	622	LHG	C33-C34-C35-C36
35	L	101	LHG	C32-C33-C34-C35
35	d	409	LHG	C32-C33-C34-C35
39	C	516	DGD	CBA-CCA-CDA-CEA
39	c	517	DGD	CBA-CCA-CDA-CEA
36	w	101	LMG	C17-C18-C19-C20
30	C	505	CLA	C10-C11-C12-C13
30	c	505	CLA	C10-C11-C12-C13
30	c	507	CLA	C8-C10-C11-C12
35	B	622	LHG	O6-C4-C5-C6
35	b	621	LHG	O6-C4-C5-C6
35	b	621	LHG	C33-C34-C35-C36
36	W	101	LMG	C17-C18-C19-C20
30	Z	102	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
36	D	408	LMG	O6-C5-C6-O5
36	d	410	LMG	O6-C5-C6-O5
36	B	620	LMG	C31-C32-C33-C34
36	b	619	LMG	C31-C32-C33-C34
37	B	625	LMU	C4-C5-C6-C7
30	B	601	CLA	C10-C11-C12-C13
30	b	601	CLA	C10-C11-C12-C13
39	J	101	DGD	O1B-C1B-O2G-C2G
39	j	101	DGD	O1B-C1B-O2G-C2G
36	w	101	LMG	C30-C31-C32-C33
30	20	209	CLA	C15-C16-C17-C18
36	W	101	LMG	C30-C31-C32-C33
30	B	602	CLA	O1A-CGA-O2A-C1
30	C	504	CLA	O1A-CGA-O2A-C1
30	b	602	CLA	O1A-CGA-O2A-C1
30	c	504	CLA	O1A-CGA-O2A-C1
30	14	305	CLA	O1A-CGA-O2A-C1
30	B	610	CLA	C16-C17-C18-C19
30	b	610	CLA	C16-C17-C18-C19
35	A	408	LHG	C4-C5-C6-O8
35	A	408	LHG	C30-C31-C32-C33
35	a	407	LHG	C4-C5-C6-O8
35	a	407	LHG	C30-C31-C32-C33
36	B	619	LMG	C30-C31-C32-C33
36	D	408	LMG	O1-C7-C8-C9
36	W	101	LMG	O1-C7-C8-C9
36	W	101	LMG	C7-C8-C9-O8
36	d	410	LMG	O1-C7-C8-C9
36	w	101	LMG	O1-C7-C8-C9
36	w	101	LMG	C7-C8-C9-O8
30	C	511	CLA	C5-C6-C7-C8
30	M	101	CLA	C10-C11-C12-C13
30	c	511	CLA	C5-C6-C7-C8
30	m	101	CLA	C10-C11-C12-C13
36	B	620	LMG	C34-C35-C36-C37
36	b	618	LMG	C30-C31-C32-C33
36	b	619	LMG	C34-C35-C36-C37
39	H	102	DGD	C1A-C2A-C3A-C4A
39	h	102	DGD	C1A-C2A-C3A-C4A
39	C	517	DGD	C5D-C6D-O5D-C1E
39	c	518	DGD	C5D-C6D-O5D-C1E
30	B	604	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
30	Z	102	CLA	C13-C15-C16-C17
30	b	604	CLA	C13-C15-C16-C17
36	B	620	LMG	C13-C14-C15-C16
36	Q	301	LMG	C37-C38-C39-C40
36	b	619	LMG	C13-C14-C15-C16
30	11	307	CLA	CAA-CBA-CGA-O2A
30	12	311	CLA	CAA-CBA-CGA-O2A
30	13	308	CLA	CAA-CBA-CGA-O2A
30	14	309	CLA	CAA-CBA-CGA-O2A
36	c	519	LMG	C37-C38-C39-C40
35	l	102	LHG	C13-C14-C15-C16
39	H	102	DGD	CBA-CCA-CDA-CEA
35	L	101	LHG	O1-C1-C2-O2
35	d	409	LHG	O1-C1-C2-O2
42	20	211	A86	C24-C25-C26-C27
42	21	311	A86	C24-C25-C26-C27
35	L	102	LHG	C13-C14-C15-C16
39	h	102	DGD	CBA-CCA-CDA-CEA
37	B	625	LMU	C1-C2-C3-C4
35	B	622	LHG	C27-C28-C29-C30
35	b	621	LHG	C27-C28-C29-C30
39	H	102	DGD	CBB-CCB-CDB-CEB
39	h	102	DGD	CBB-CCB-CDB-CEB
30	C	509	CLA	C5-C6-C7-C8
39	C	516	DGD	O6E-C5E-C6E-O5E
39	c	517	DGD	O6E-C5E-C6E-O5E
30	B	609	CLA	C4-C3-C5-C6
30	b	609	CLA	C4-C3-C5-C6
31	A	403	PHO	C4-C3-C5-C6
31	d	403	PHO	C4-C3-C5-C6
30	C	502	CLA	CBA-CGA-O2A-C1
30	c	502	CLA	CBA-CGA-O2A-C1
30	c	509	CLA	C5-C6-C7-C8
30	11	307	CLA	C15-C16-C17-C18
30	12	311	CLA	C15-C16-C17-C18
30	13	308	CLA	C15-C16-C17-C18
30	14	309	CLA	C15-C16-C17-C18
31	A	403	PHO	C8-C10-C11-C12
31	d	403	PHO	C8-C10-C11-C12
30	18	303	CLA	C5-C6-C7-C8
31	D	403	PHO	C5-C6-C7-C8
31	d	404	PHO	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
30	11	306	CLA	O1D-CGD-O2D-CED
30	12	310	CLA	O1D-CGD-O2D-CED
30	13	307	CLA	O1D-CGD-O2D-CED
30	14	308	CLA	O1D-CGD-O2D-CED
36	W	101	LMG	C15-C16-C17-C18
36	w	101	LMG	C15-C16-C17-C18
39	J	101	DGD	CDA-CEA-CFA-CGA
39	j	101	DGD	CDA-CEA-CFA-CGA
33	L	103	SQD	C24-C23-O48-C46
33	l	101	SQD	C24-C23-O48-C46
35	l	102	LHG	O10-C23-O8-C6
30	C	519	CLA	C16-C17-C18-C19
30	B	611	CLA	C15-C16-C17-C18
30	b	611	CLA	C15-C16-C17-C18
30	C	513	CLA	O1D-CGD-O2D-CED
30	c	513	CLA	O1D-CGD-O2D-CED
35	L	102	LHG	O10-C23-O8-C6
30	B	605	CLA	C5-C6-C7-C8
30	W	102	CLA	C15-C16-C17-C18
30	b	605	CLA	C5-C6-C7-C8
30	w	102	CLA	C15-C16-C17-C18
30	18	305	CLA	C10-C11-C12-C13
36	12	301	LMG	O1-C7-C8-O7
39	C	516	DGD	O2G-C2G-C3G-O3G
39	c	517	DGD	O2G-C2G-C3G-O3G
42	21	313	A86	C33-C34-O4-C38
35	L	101	LHG	C27-C28-C29-C30
30	z	101	CLA	C16-C17-C18-C19
35	d	409	LHG	C27-C28-C29-C30
30	C	506	CLA	C4-C3-C5-C6
30	c	506	CLA	C4-C3-C5-C6
30	B	601	CLA	C11-C10-C8-C7
30	B	610	CLA	C12-C13-C15-C16
30	B	612	CLA	C6-C7-C8-C10
30	B	623	CLA	C11-C10-C8-C7
30	C	503	CLA	C11-C12-C13-C15
30	C	505	CLA	C11-C12-C13-C15
30	C	506	CLA	C2-C3-C5-C6
30	C	513	CLA	C11-C10-C8-C7
30	C	519	CLA	C11-C12-C13-C15
30	D	402	CLA	C12-C13-C15-C16
30	M	101	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
30	b	601	CLA	C11-C10-C8-C7
30	b	610	CLA	C12-C13-C15-C16
30	b	612	CLA	C6-C7-C8-C10
30	b	622	CLA	C11-C10-C8-C7
30	c	503	CLA	C11-C12-C13-C15
30	c	505	CLA	C11-C12-C13-C15
30	c	506	CLA	C2-C3-C5-C6
30	c	513	CLA	C11-C10-C8-C7
30	d	402	CLA	C12-C13-C15-C16
30	m	101	CLA	C6-C7-C8-C10
30	z	101	CLA	C11-C12-C13-C15
30	11	301	CLA	C11-C10-C8-C7
30	12	305	CLA	C11-C10-C8-C7
30	13	302	CLA	C11-C10-C8-C7
30	14	303	CLA	C11-C10-C8-C7
30	16	302	CLA	C11-C10-C8-C7
30	17	308	CLA	C6-C7-C8-C10
30	18	301	CLA	C12-C13-C15-C16
30	18	303	CLA	C12-C13-C15-C16
30	18	305	CLA	C6-C7-C8-C10
30	19	303	CLA	C11-C12-C13-C15
30	19	307	CLA	C11-C10-C8-C7
30	20	204	CLA	C12-C13-C15-C16
30	20	209	CLA	C11-C10-C8-C7
30	21	303	CLA	C11-C10-C8-C7
30	21	303	CLA	C11-C12-C13-C15
30	21	307	CLA	C12-C13-C15-C16
30	16	301	CLA	C3-C5-C6-C7
36	B	620	LMG	C21-C22-C23-C24
36	b	619	LMG	C21-C22-C23-C24
30	B	605	CLA	C11-C12-C13-C14
30	B	606	CLA	C11-C10-C8-C9
30	B	607	CLA	C14-C13-C15-C16
30	B	610	CLA	C14-C13-C15-C16
30	B	623	CLA	C6-C7-C8-C9
30	B	623	CLA	C11-C10-C8-C9
30	C	505	CLA	C11-C12-C13-C14
30	C	506	CLA	C14-C13-C15-C16
30	C	507	CLA	C11-C12-C13-C14
30	C	508	CLA	C11-C10-C8-C9
30	C	513	CLA	C11-C10-C8-C9
30	C	519	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
30	Z	102	CLA	C6-C7-C8-C9
30	Z	102	CLA	C11-C12-C13-C14
30	W	103	CLA	C11-C12-C13-C14
30	W	103	CLA	C14-C13-C15-C16
30	b	605	CLA	C11-C12-C13-C14
30	b	606	CLA	C11-C10-C8-C9
30	b	607	CLA	C14-C13-C15-C16
30	b	610	CLA	C14-C13-C15-C16
30	b	622	CLA	C6-C7-C8-C9
30	b	622	CLA	C11-C10-C8-C9
30	c	505	CLA	C11-C12-C13-C14
30	c	506	CLA	C14-C13-C15-C16
30	c	507	CLA	C11-C12-C13-C14
30	c	508	CLA	C11-C10-C8-C9
30	c	513	CLA	C11-C10-C8-C9
30	z	101	CLA	C6-C7-C8-C9
30	w	103	CLA	C11-C12-C13-C14
30	w	103	CLA	C14-C13-C15-C16
30	11	301	CLA	C11-C10-C8-C9
30	12	305	CLA	C11-C10-C8-C9
30	13	302	CLA	C11-C10-C8-C9
30	14	303	CLA	C11-C10-C8-C9
30	16	304	CLA	C6-C7-C8-C9
30	17	301	CLA	C14-C13-C15-C16
30	17	308	CLA	C6-C7-C8-C9
30	18	301	CLA	C14-C13-C15-C16
30	18	303	CLA	C14-C13-C15-C16
30	18	305	CLA	C6-C7-C8-C9
30	18	310	CLA	C14-C13-C15-C16
30	19	301	CLA	C11-C10-C8-C9
30	19	303	CLA	C14-C13-C15-C16
30	20	204	CLA	C14-C13-C15-C16
30	21	303	CLA	C11-C10-C8-C9
30	11	303	CLA	CBA-CGA-O2A-C1
30	11	315	CLA	CBA-CGA-O2A-C1
30	12	303	CLA	CBA-CGA-O2A-C1
30	12	307	CLA	CBA-CGA-O2A-C1
30	12	312	CLA	CBA-CGA-O2A-C1
30	13	304	CLA	CBA-CGA-O2A-C1
30	14	302	CLA	CBA-CGA-O2A-C1
39	h	102	DGD	C5A-C6A-C7A-C8A
32	B	618	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
32	b	617	BCR	C7-C8-C9-C34
42	11	316	A86	C7-C6-C8-C9
42	12	304	A86	C7-C6-C8-C9
42	13	301	A86	C7-C6-C8-C9
42	13	315	A86	C7-C6-C8-C9
42	15	315	A86	C7-C6-C8-C9
42	15	316	A86	C7-C6-C8-C9
42	18	302	A86	C7-C6-C8-C9
42	20	201	A86	C-C1-C24-C25
42	20	212	A86	C7-C6-C8-C9
42	21	310	A86	C-C1-C24-C25
30	B	608	CLA	C13-C15-C16-C17
35	A	408	LHG	C32-C33-C34-C35
35	a	407	LHG	C32-C33-C34-C35
36	M	102	LMG	C16-C17-C18-C19
36	m	102	LMG	C16-C17-C18-C19
39	H	102	DGD	C5A-C6A-C7A-C8A
32	A	405	BCR	C11-C12-C13-C14
32	H	101	BCR	C21-C22-C23-C24
32	a	404	BCR	C11-C12-C13-C14
32	h	101	BCR	C21-C22-C23-C24
42	11	314	A86	C2-C1-C24-C25
42	12	319	A86	C2-C1-C24-C25
42	14	301	A86	C2-C1-C24-C25
42	14	316	A86	C2-C1-C24-C25
42	15	314	A86	C2-C1-C24-C25
42	16	313	A86	C2-C1-C24-C25
42	17	316	A86	C2-C1-C24-C25
42	20	212	A86	C5-C6-C8-C9
42	21	310	A86	C2-C1-C24-C25
39	C	517	DGD	C5A-C6A-C7A-C8A
30	b	608	CLA	C13-C15-C16-C17
39	H	102	DGD	CCB-CDB-CEB-CFB
39	c	518	DGD	C5A-C6A-C7A-C8A
30	17	301	CLA	CBA-CGA-O2A-C1
36	M	102	LMG	C29-C28-O8-C9
36	m	102	LMG	C29-C28-O8-C9
39	h	102	DGD	CCB-CDB-CEB-CFB
30	C	519	CLA	C16-C17-C18-C20
30	z	101	CLA	C16-C17-C18-C20
30	c	513	CLA	C13-C15-C16-C17
35	L	101	LHG	O6-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
35	d	409	LHG	O6-C4-C5-C6
35	B	622	LHG	C32-C33-C34-C35
35	L	102	LHG	C30-C31-C32-C33
35	b	621	LHG	C32-C33-C34-C35
35	l	102	LHG	C30-C31-C32-C33
36	d	410	LMG	C20-C21-C22-C23
39	C	516	DGD	C5A-C6A-C7A-C8A
39	c	517	DGD	C5A-C6A-C7A-C8A
39	c	518	DGD	C4A-C5A-C6A-C7A
36	B	619	LMG	C13-C14-C15-C16
36	D	408	LMG	C20-C21-C22-C23
36	b	618	LMG	C13-C14-C15-C16
39	C	517	DGD	C4A-C5A-C6A-C7A
30	B	606	CLA	C13-C15-C16-C17
30	C	513	CLA	C13-C15-C16-C17
30	b	606	CLA	C13-C15-C16-C17
30	20	203	CLA	O1D-CGD-O2D-CED
36	B	619	LMG	C36-C37-C38-C39
36	Q	301	LMG	C29-C30-C31-C32
36	b	618	LMG	C36-C37-C38-C39
30	b	611	CLA	CBA-CGA-O2A-C1
30	B	601	CLA	C3A-C2A-CAA-CBA
30	C	513	CLA	C3A-C2A-CAA-CBA
30	b	601	CLA	C3A-C2A-CAA-CBA
30	b	622	CLA	C3A-C2A-CAA-CBA
30	c	513	CLA	C3A-C2A-CAA-CBA
30	15	305	CLA	C3A-C2A-CAA-CBA
30	21	301	CLA	C3A-C2A-CAA-CBA
36	c	519	LMG	C29-C30-C31-C32
42	11	310	A86	O-C13-C14-C15
42	11	312	A86	O-C13-C14-C15
42	12	315	A86	O-C13-C14-C15
42	12	317	A86	O-C13-C14-C15
42	13	311	A86	O-C13-C14-C15
42	13	313	A86	O-C13-C14-C15
42	14	312	A86	O-C13-C14-C15
42	14	314	A86	O-C13-C14-C15
42	15	310	A86	O-C13-C14-C15
42	15	312	A86	O-C13-C14-C15
42	16	312	A86	O-C13-C14-C15
42	17	302	A86	O-C13-C14-C15
42	17	313	A86	O-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
42	18	313	A86	O-C13-C14-C15
42	19	310	A86	O-C13-C14-C15
42	20	213	A86	O-C13-C14-C15
42	21	310	A86	O-C13-C14-C15
42	21	314	A86	O-C13-C14-C15
35	A	408	LHG	C12-C13-C14-C15
35	a	407	LHG	C12-C13-C14-C15
30	18	301	CLA	O1D-CGD-O2D-CED
30	17	305	CLA	C10-C11-C12-C13
30	B	611	CLA	CBA-CGA-O2A-C1
30	17	308	CLA	C13-C15-C16-C17
33	B	621	SQD	C44-C45-C46-O48
33	L	103	SQD	C44-C45-C46-O48
33	b	620	SQD	C44-C45-C46-O48
33	l	101	SQD	C44-C45-C46-O48
36	Q	301	LMG	O1-C7-C8-C9
36	c	519	LMG	O1-C7-C8-C9
39	C	516	DGD	C1G-C2G-C3G-O3G
39	c	517	DGD	C1G-C2G-C3G-O3G
33	L	103	SQD	C25-C26-C27-C28
33	a	405	SQD	C28-C29-C30-C31
33	l	101	SQD	C25-C26-C27-C28
35	l	102	LHG	C9-C10-C11-C12
36	d	410	LMG	C34-C35-C36-C37
36	w	101	LMG	C32-C33-C34-C35
40	D	407	PL9	C32-C33-C34-C36
40	d	408	PL9	C32-C33-C34-C36
33	A	406	SQD	C28-C29-C30-C31
35	L	102	LHG	C9-C10-C11-C12
36	D	408	LMG	C34-C35-C36-C37
36	W	101	LMG	C32-C33-C34-C35
30	B	609	CLA	C5-C6-C7-C8
30	c	505	CLA	O1D-CGD-O2D-CED
30	18	307	CLA	CBD-CGD-O2D-CED
30	b	609	CLA	C5-C6-C7-C8
36	Q	301	LMG	C28-C29-C30-C31
36	c	519	LMG	C28-C29-C30-C31
30	C	502	CLA	O1A-CGA-O2A-C1
30	11	303	CLA	O1A-CGA-O2A-C1
30	12	307	CLA	O1A-CGA-O2A-C1
30	13	304	CLA	O1A-CGA-O2A-C1
30	C	505	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
30	W	102	CLA	O1D-CGD-O2D-CED
30	w	102	CLA	O1D-CGD-O2D-CED
35	B	622	LHG	O6-C4-C5-O7
35	L	101	LHG	O6-C4-C5-O7
35	b	621	LHG	O6-C4-C5-O7
35	d	409	LHG	O6-C4-C5-O7
35	l	102	LHG	C29-C30-C31-C32
39	H	102	DGD	C6A-C7A-C8A-C9A
39	h	102	DGD	C6A-C7A-C8A-C9A
30	c	502	CLA	O1A-CGA-O2A-C1
36	B	620	LMG	C19-C20-C21-C22
36	W	101	LMG	C22-C23-C24-C25
36	w	101	LMG	C22-C23-C24-C25
30	11	315	CLA	O1A-CGA-O2A-C1
30	12	303	CLA	O1A-CGA-O2A-C1
30	12	312	CLA	O1A-CGA-O2A-C1
30	14	302	CLA	O1A-CGA-O2A-C1
36	b	619	LMG	C19-C20-C21-C22
35	L	102	LHG	C29-C30-C31-C32
33	L	103	SQD	O47-C45-C46-O48
33	l	101	SQD	O47-C45-C46-O48
35	A	408	LHG	O7-C5-C6-O8
35	a	407	LHG	O7-C5-C6-O8
36	D	408	LMG	O1-C7-C8-O7
36	d	410	LMG	O1-C7-C8-O7
30	B	605	CLA	CBD-CGD-O2D-CED
30	C	514	CLA	CBA-CGA-O2A-C1
30	c	514	CLA	CBA-CGA-O2A-C1
42	17	302	A86	C11-C10-C9-C8
42	17	315	A86	C11-C10-C9-C8
42	17	315	A86	C24-C25-C26-C27
42	19	311	A86	C3-C4-C5-C6
35	A	408	LHG	C8-C7-O7-C5
36	Q	301	LMG	C11-C10-O7-C8
42	11	313	A86	C10-C11-C13-C14
42	12	318	A86	C10-C11-C13-C14
42	13	314	A86	C10-C11-C13-C14
42	14	315	A86	C10-C11-C13-C14
42	15	313	A86	C10-C11-C13-C14
42	17	302	A86	C10-C11-C13-C14
42	17	314	A86	C10-C11-C13-C14
42	18	315	A86	C10-C11-C13-C14

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Mol	Chain	Res	Type	Atoms
30	A	402	CLA	C2-C1-O2A-CGA
30	B	615	CLA	C2-C1-O2A-CGA
30	a	402	CLA	C2-C1-O2A-CGA
30	b	615	CLA	C2-C1-O2A-CGA
30	18	303	CLA	C2-C1-O2A-CGA
30	21	301	CLA	C2-C1-O2A-CGA
30	21	305	CLA	O1D-CGD-O2D-CED
30	B	613	CLA	C8-C10-C11-C12
30	b	613	CLA	C8-C10-C11-C12
30	A	404	CLA	C11-C10-C8-C9
30	B	605	CLA	C6-C7-C8-C9
30	C	514	CLA	C14-C13-C15-C16
30	C	520	CLA	C11-C10-C8-C9
30	D	402	CLA	C11-C10-C8-C9
30	D	402	CLA	C14-C13-C15-C16
30	a	403	CLA	C11-C10-C8-C9
30	b	605	CLA	C6-C7-C8-C9
30	c	514	CLA	C14-C13-C15-C16
30	d	402	CLA	C11-C10-C8-C9
30	d	402	CLA	C14-C13-C15-C16
30	11	303	CLA	C11-C12-C13-C14
30	11	315	CLA	C14-C13-C15-C16
30	12	303	CLA	C14-C13-C15-C16
30	12	307	CLA	C11-C12-C13-C14
30	12	312	CLA	C14-C13-C15-C16
30	13	304	CLA	C11-C12-C13-C14
30	14	302	CLA	C14-C13-C15-C16
30	14	305	CLA	C11-C12-C13-C14
30	18	303	CLA	C11-C10-C8-C9
30	18	309	CLA	C11-C10-C8-C9
30	20	202	CLA	C11-C10-C8-C9
30	21	303	CLA	C11-C12-C13-C14
35	L	102	LHG	C10-C11-C12-C13
30	b	605	CLA	CBD-CGD-O2D-CED
30	17	301	CLA	O1A-CGA-O2A-C1
35	l	102	LHG	C10-C11-C12-C13
36	B	619	LMG	C38-C39-C40-C41
36	b	618	LMG	C38-C39-C40-C41
30	11	302	CLA	C2A-CAA-CBA-CGA
30	12	306	CLA	C2A-CAA-CBA-CGA
30	13	303	CLA	C2A-CAA-CBA-CGA
30	14	304	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
30	D	402	CLA	C16-C17-C18-C19
30	d	402	CLA	C16-C17-C18-C19
30	21	306	CLA	C16-C17-C18-C19
32	A	405	BCR	C23-C24-C25-C26
32	A	405	BCR	C23-C24-C25-C30
32	A	409	BCR	C23-C24-C25-C26
32	A	409	BCR	C23-C24-C25-C30
32	B	617	BCR	C23-C24-C25-C26
32	B	618	BCR	C23-C24-C25-C26
32	F	101	BCR	C23-C24-C25-C26
32	F	101	BCR	C23-C24-C25-C30
32	H	101	BCR	C23-C24-C25-C26
32	Y	101	BCR	C1-C6-C7-C8
32	Y	101	BCR	C23-C24-C25-C26
32	Y	101	BCR	C23-C24-C25-C30
32	a	404	BCR	C23-C24-C25-C26
32	a	404	BCR	C23-C24-C25-C30
32	a	408	BCR	C23-C24-C25-C26
32	a	408	BCR	C23-C24-C25-C30
32	b	616	BCR	C23-C24-C25-C26
32	b	617	BCR	C23-C24-C25-C26
32	c	520	BCR	C1-C6-C7-C8
32	c	520	BCR	C23-C24-C25-C26
32	c	520	BCR	C23-C24-C25-C30
32	f	101	BCR	C23-C24-C25-C26
32	f	101	BCR	C23-C24-C25-C30
32	h	101	BCR	C23-C24-C25-C26
35	L	101	LHG	C17-C18-C19-C20
35	d	409	LHG	C17-C18-C19-C20
36	D	408	LMG	C39-C40-C41-C42
36	Q	301	LMG	C30-C31-C32-C33
36	c	519	LMG	C30-C31-C32-C33
36	d	410	LMG	C39-C40-C41-C42
30	21	303	CLA	O1D-CGD-O2D-CED
39	C	517	DGD	C4E-C5E-C6E-O5E
39	c	518	DGD	C4E-C5E-C6E-O5E
36	B	620	LMG	C17-C18-C19-C20
39	H	102	DGD	C3B-C4B-C5B-C6B
42	20	201	A86	C2-C1-C24-C25
36	b	619	LMG	C17-C18-C19-C20
39	c	517	DGD	C6B-C7B-C8B-C9B
39	h	102	DGD	C3B-C4B-C5B-C6B

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Mol	Chain	Res	Type	Atoms
35	a	407	LHG	C8-C7-O7-C5
36	c	519	LMG	C11-C10-O7-C8
39	C	516	DGD	C6B-C7B-C8B-C9B
39	C	516	DGD	C9A-CAA-CBA-CCA
30	B	613	CLA	CBD-CGD-O2D-CED
30	17	303	CLA	C8-C10-C11-C12
42	20	201	A86	C33-C34-O4-C38
36	12	301	LMG	C13-C14-C15-C16
39	c	517	DGD	C9A-CAA-CBA-CCA
35	L	102	LHG	O6-C4-C5-C6
35	l	102	LHG	O6-C4-C5-C6
36	Q	301	LMG	C33-C34-C35-C36
36	1	101	LMG	C11-C12-C13-C14
36	c	519	LMG	C33-C34-C35-C36
30	B	605	CLA	C11-C12-C13-C15
30	B	606	CLA	C11-C10-C8-C7
30	B	607	CLA	C12-C13-C15-C16
30	B	612	CLA	C11-C10-C8-C7
30	B	614	CLA	C11-C10-C8-C7
30	B	623	CLA	C6-C7-C8-C10
30	C	506	CLA	C12-C13-C15-C16
30	C	507	CLA	C11-C12-C13-C15
30	C	508	CLA	C12-C13-C15-C16
30	C	510	CLA	C12-C13-C15-C16
30	C	514	CLA	C12-C13-C15-C16
30	C	519	CLA	C6-C7-C8-C10
30	C	520	CLA	C11-C10-C8-C7
30	D	402	CLA	C11-C10-C8-C7
30	D	405	CLA	C11-C12-C13-C15
30	Z	102	CLA	C6-C7-C8-C10
30	b	605	CLA	C11-C12-C13-C15
30	b	606	CLA	C11-C10-C8-C7
30	b	607	CLA	C12-C13-C15-C16
30	b	612	CLA	C11-C10-C8-C7
30	b	614	CLA	C11-C10-C8-C7
30	b	622	CLA	C6-C7-C8-C10
30	c	506	CLA	C12-C13-C15-C16
30	c	507	CLA	C11-C12-C13-C15
30	c	508	CLA	C12-C13-C15-C16
30	c	510	CLA	C12-C13-C15-C16
30	c	514	CLA	C12-C13-C15-C16
30	d	402	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
30	d	406	CLA	C11-C12-C13-C15
30	z	101	CLA	C6-C7-C8-C10
30	11	303	CLA	C11-C12-C13-C15
30	11	307	CLA	C12-C13-C15-C16
30	11	315	CLA	C12-C13-C15-C16
30	12	303	CLA	C12-C13-C15-C16
30	12	307	CLA	C11-C12-C13-C15
30	12	311	CLA	C12-C13-C15-C16
30	12	312	CLA	C12-C13-C15-C16
30	13	304	CLA	C11-C12-C13-C15
30	13	308	CLA	C12-C13-C15-C16
30	14	302	CLA	C12-C13-C15-C16
30	14	305	CLA	C11-C12-C13-C15
30	14	309	CLA	C12-C13-C15-C16
30	15	301	CLA	C11-C10-C8-C7
30	16	301	CLA	C12-C13-C15-C16
30	16	304	CLA	C6-C7-C8-C10
30	17	301	CLA	C12-C13-C15-C16
30	18	303	CLA	C11-C10-C8-C7
30	18	309	CLA	C11-C10-C8-C7
30	18	310	CLA	C12-C13-C15-C16
30	19	301	CLA	C11-C10-C8-C7
30	19	303	CLA	C12-C13-C15-C16
30	20	202	CLA	C11-C10-C8-C7
30	20	202	CLA	C12-C13-C15-C16
30	21	301	CLA	C11-C10-C8-C7
36	12	301	LMG	C11-C12-C13-C14
42	11	312	A86	C3-C4-C5-C6
42	11	314	A86	C1-C2-C3-C4
42	12	317	A86	C3-C4-C5-C6
42	12	319	A86	C1-C2-C3-C4
42	13	313	A86	C3-C4-C5-C6
42	14	301	A86	C1-C2-C3-C4
42	14	314	A86	C3-C4-C5-C6
42	14	316	A86	C1-C2-C3-C4
42	15	312	A86	C3-C4-C5-C6
42	15	314	A86	C1-C2-C3-C4
42	16	312	A86	C3-C4-C5-C6
42	16	313	A86	C1-C2-C3-C4
42	17	313	A86	C3-C4-C5-C6
42	17	316	A86	C1-C2-C3-C4
42	20	212	A86	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
42	20	213	A86	C3-C4-C5-C6
42	21	314	A86	C3-C4-C5-C6
30	17	308	CLA	C16-C17-C18-C20
39	C	517	DGD	C1B-C2B-C3B-C4B
30	18	301	CLA	C5-C6-C7-C8
30	D	405	CLA	C2A-CAA-CBA-CGA
30	d	406	CLA	C2A-CAA-CBA-CGA
30	b	613	CLA	CBD-CGD-O2D-CED
32	C	515	BCR	C35-C13-C14-C15
32	c	516	BCR	C35-C13-C14-C15
39	J	101	DGD	C4A-C5A-C6A-C7A
39	c	518	DGD	C1B-C2B-C3B-C4B
35	B	622	LHG	C34-C35-C36-C37
35	b	621	LHG	C34-C35-C36-C37
39	j	101	DGD	C4A-C5A-C6A-C7A
30	A	402	CLA	C13-C15-C16-C17
30	B	604	CLA	CBA-CGA-O2A-C1
30	C	503	CLA	CBA-CGA-O2A-C1
30	b	604	CLA	CBA-CGA-O2A-C1
30	c	503	CLA	CBA-CGA-O2A-C1
41	F	102	HEM	C2A-CAA-CBA-CGA
41	f	102	HEM	C2A-CAA-CBA-CGA
30	D	401	CLA	C10-C11-C12-C13
30	a	402	CLA	C13-C15-C16-C17
30	B	601	CLA	CAD-CBD-CGD-O2D
30	B	613	CLA	CAD-CBD-CGD-O2D
30	C	513	CLA	CAD-CBD-CGD-O2D
30	C	514	CLA	CAD-CBD-CGD-O2D
30	W	102	CLA	CAD-CBD-CGD-O2D
30	W	103	CLA	CAD-CBD-CGD-O2D
30	b	601	CLA	CAD-CBD-CGD-O2D
30	b	613	CLA	CAD-CBD-CGD-O2D
30	c	513	CLA	CAD-CBD-CGD-O2D
30	c	514	CLA	CAD-CBD-CGD-O2D
30	w	102	CLA	CAD-CBD-CGD-O2D
30	w	103	CLA	CAD-CBD-CGD-O2D
30	11	306	CLA	CAD-CBD-CGD-O2D
30	12	310	CLA	CAD-CBD-CGD-O2D
30	13	307	CLA	CAD-CBD-CGD-O2D
30	14	308	CLA	CAD-CBD-CGD-O2D
30	17	307	CLA	CAD-CBD-CGD-O2D
30	18	304	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
30	18	308	CLA	CAD-CBD-CGD-O2D
30	19	305	CLA	CAD-CBD-CGD-O2D
30	21	306	CLA	CAD-CBD-CGD-O2D
31	A	403	PHO	CAD-CBD-CGD-O2D
31	d	403	PHO	CAD-CBD-CGD-O2D
42	21	312	A86	C28-C27-C29-C30
30	C	509	CLA	C13-C15-C16-C17
30	D	402	CLA	C13-C15-C16-C17
30	d	401	CLA	C10-C11-C12-C13
30	d	402	CLA	C13-C15-C16-C17
32	B	617	BCR	C6-C7-C8-C9
32	B	618	BCR	C22-C23-C24-C25
32	b	616	BCR	C6-C7-C8-C9
32	b	617	BCR	C22-C23-C24-C25
30	C	504	CLA	C4-C3-C5-C6
30	c	504	CLA	C4-C3-C5-C6
39	J	101	DGD	O6D-C1D-O3G-C3G
39	j	101	DGD	O6D-C1D-O3G-C3G
30	c	509	CLA	C13-C15-C16-C17
36	B	620	LMG	O1-C7-C8-C9
36	l	101	LMG	O1-C7-C8-C9
36	b	619	LMG	O1-C7-C8-C9
42	11	316	A86	C12-C11-C13-O
42	12	304	A86	C12-C11-C13-O
42	13	301	A86	C12-C11-C13-O
42	13	315	A86	C12-C11-C13-O
42	15	315	A86	C12-C11-C13-O
42	15	316	A86	C12-C11-C13-O
42	16	310	A86	C12-C11-C13-O
42	17	311	A86	C12-C11-C13-O
42	18	302	A86	C12-C11-C13-O
42	19	311	A86	C12-C11-C13-O
30	18	303	CLA	C2A-CAA-CBA-CGA
30	c	514	CLA	O1A-CGA-O2A-C1
30	C	507	CLA	C16-C17-C18-C19
30	D	402	CLA	C16-C17-C18-C20
30	c	507	CLA	C16-C17-C18-C19
30	d	402	CLA	C16-C17-C18-C20
35	L	102	LHG	C33-C34-C35-C36
35	l	102	LHG	C33-C34-C35-C36
30	B	609	CLA	CHA-CBD-CGD-O1D
30	B	609	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
30	B	610	CLA	CHA-CBD-CGD-O1D
30	B	612	CLA	CHA-CBD-CGD-O1D
30	B	612	CLA	CHA-CBD-CGD-O2D
30	B	615	CLA	CHA-CBD-CGD-O1D
30	C	503	CLA	CHA-CBD-CGD-O1D
30	C	503	CLA	CHA-CBD-CGD-O2D
30	C	507	CLA	CHA-CBD-CGD-O1D
30	C	508	CLA	CHA-CBD-CGD-O1D
30	C	509	CLA	CHA-CBD-CGD-O1D
30	C	509	CLA	CHA-CBD-CGD-O2D
30	C	510	CLA	CHA-CBD-CGD-O1D
30	C	510	CLA	CHA-CBD-CGD-O2D
30	C	512	CLA	CHA-CBD-CGD-O2D
30	b	609	CLA	CHA-CBD-CGD-O1D
30	b	609	CLA	CHA-CBD-CGD-O2D
30	b	610	CLA	CHA-CBD-CGD-O1D
30	b	612	CLA	CHA-CBD-CGD-O1D
30	b	612	CLA	CHA-CBD-CGD-O2D
30	b	615	CLA	CHA-CBD-CGD-O1D
30	c	503	CLA	CHA-CBD-CGD-O1D
30	c	503	CLA	CHA-CBD-CGD-O2D
30	c	507	CLA	CHA-CBD-CGD-O1D
30	c	508	CLA	CHA-CBD-CGD-O1D
30	c	509	CLA	CHA-CBD-CGD-O1D
30	c	509	CLA	CHA-CBD-CGD-O2D
30	c	510	CLA	CHA-CBD-CGD-O1D
30	c	510	CLA	CHA-CBD-CGD-O2D
30	c	512	CLA	CHA-CBD-CGD-O2D
30	11	303	CLA	CHA-CBD-CGD-O1D
30	11	303	CLA	CHA-CBD-CGD-O2D
30	11	305	CLA	CHA-CBD-CGD-O2D
30	11	308	CLA	CHA-CBD-CGD-O1D
30	11	308	CLA	CHA-CBD-CGD-O2D
30	12	307	CLA	CHA-CBD-CGD-O1D
30	12	307	CLA	CHA-CBD-CGD-O2D
30	12	309	CLA	CHA-CBD-CGD-O2D
30	12	313	CLA	CHA-CBD-CGD-O1D
30	12	313	CLA	CHA-CBD-CGD-O2D
30	13	304	CLA	CHA-CBD-CGD-O1D
30	13	304	CLA	CHA-CBD-CGD-O2D
30	13	306	CLA	CHA-CBD-CGD-O2D
30	13	309	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
30	13	309	CLA	CHA-CBD-CGD-O2D
30	14	305	CLA	CHA-CBD-CGD-O1D
30	14	305	CLA	CHA-CBD-CGD-O2D
30	14	307	CLA	CHA-CBD-CGD-O2D
30	14	310	CLA	CHA-CBD-CGD-O1D
30	14	310	CLA	CHA-CBD-CGD-O2D
30	15	305	CLA	CHA-CBD-CGD-O1D
30	15	308	CLA	CHA-CBD-CGD-O1D
30	15	308	CLA	CHA-CBD-CGD-O2D
30	16	308	CLA	CHA-CBD-CGD-O1D
30	16	308	CLA	CHA-CBD-CGD-O2D
30	17	309	CLA	CHA-CBD-CGD-O1D
30	17	310	CLA	CHA-CBD-CGD-O1D
30	18	309	CLA	CHA-CBD-CGD-O1D
30	19	303	CLA	CHA-CBD-CGD-O1D
30	19	303	CLA	CHA-CBD-CGD-O2D
30	21	303	CLA	CHA-CBD-CGD-O1D
30	c	510	CLA	C5-C6-C7-C8
30	14	303	CLA	C5-C6-C7-C8
30	B	611	CLA	O1A-CGA-O2A-C1
30	C	514	CLA	O1A-CGA-O2A-C1
30	b	611	CLA	O1A-CGA-O2A-C1
39	C	517	DGD	O1A-C1A-O1G-C1G
39	c	518	DGD	O1A-C1A-O1G-C1G
32	A	409	BCR	C11-C10-C9-C8
32	a	408	BCR	C11-C10-C9-C8
33	A	406	SQD	O6-C44-C45-O47
33	a	405	SQD	O6-C44-C45-O47
36	B	620	LMG	O1-C7-C8-O7
36	Q	301	LMG	O1-C7-C8-O7
36	W	101	LMG	O7-C8-C9-O8
36	1	101	LMG	O1-C7-C8-O7
36	b	619	LMG	O1-C7-C8-O7
36	c	519	LMG	O1-C7-C8-O7
36	w	101	LMG	O7-C8-C9-O8
30	18	301	CLA	CBA-CGA-O2A-C1
35	L	102	LHG	C27-C28-C29-C30
35	l	102	LHG	C27-C28-C29-C30
36	B	619	LMG	C12-C13-C14-C15
30	C	510	CLA	C5-C6-C7-C8
30	11	301	CLA	C5-C6-C7-C8
36	b	618	LMG	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
31	D	403	PHO	C16-C17-C18-C20
42	11	313	A86	C10-C11-C13-O
42	11	316	A86	C10-C11-C13-O
42	11	316	A86	C13-C14-C15-O1
42	12	304	A86	C10-C11-C13-O
42	12	304	A86	C13-C14-C15-O1
42	12	318	A86	C10-C11-C13-O
42	13	301	A86	C10-C11-C13-O
42	13	301	A86	C13-C14-C15-O1
42	13	314	A86	C10-C11-C13-O
42	13	315	A86	C10-C11-C13-O
42	13	315	A86	C13-C14-C15-O1
42	14	315	A86	C10-C11-C13-O
42	15	313	A86	C10-C11-C13-O
42	15	315	A86	C10-C11-C13-O
42	15	315	A86	C13-C14-C15-O1
42	15	316	A86	C10-C11-C13-O
42	15	316	A86	C13-C14-C15-O1
42	16	310	A86	C10-C11-C13-O
42	17	302	A86	C13-C14-C15-O1
42	17	314	A86	C10-C11-C13-O
42	17	315	A86	C13-C14-C15-O1
42	18	302	A86	C10-C11-C13-O
42	18	302	A86	C13-C14-C15-O1
42	18	315	A86	C10-C11-C13-O
42	19	311	A86	C13-C14-C15-O1
42	19	312	A86	C13-C14-C15-O1
42	20	201	A86	C13-C14-C15-O1
30	20	202	CLA	O1D-CGD-O2D-CED
36	W	101	LMG	C16-C17-C18-C19
30	D	401	CLA	C4-C3-C5-C6
30	d	401	CLA	C4-C3-C5-C6
36	w	101	LMG	C16-C17-C18-C19
30	13	302	CLA	C5-C6-C7-C8
30	B	614	CLA	C11-C10-C8-C9
30	C	504	CLA	C11-C12-C13-C14
30	C	510	CLA	C14-C13-C15-C16
30	b	614	CLA	C11-C10-C8-C9
30	c	504	CLA	C11-C12-C13-C14
30	c	510	CLA	C14-C13-C15-C16
30	15	301	CLA	C11-C10-C8-C9
30	20	202	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
30	21	301	CLA	C11-C12-C13-C14
30	21	303	CLA	C6-C7-C8-C9
30	12	305	CLA	C5-C6-C7-C8
30	B	613	CLA	O1D-CGD-O2D-CED
30	C	503	CLA	O1A-CGA-O2A-C1
30	c	503	CLA	O1A-CGA-O2A-C1
32	B	617	BCR	C11-C12-C13-C35
32	b	616	BCR	C11-C12-C13-C35
42	11	314	A86	C-C1-C24-C25
42	12	319	A86	C-C1-C24-C25
42	14	301	A86	C-C1-C24-C25
42	14	316	A86	C-C1-C24-C25
42	15	314	A86	C-C1-C24-C25
42	16	313	A86	C-C1-C24-C25
42	17	315	A86	C-C1-C24-C25
42	17	316	A86	C-C1-C24-C25
42	20	201	A86	C35-C34-O4-C38
42	11	316	A86	C5-C6-C8-C9
42	12	304	A86	C5-C6-C8-C9
42	13	301	A86	C5-C6-C8-C9
42	13	315	A86	C5-C6-C8-C9
42	15	315	A86	C5-C6-C8-C9
42	15	316	A86	C5-C6-C8-C9
42	17	315	A86	C2-C1-C24-C25
42	18	302	A86	C5-C6-C8-C9
30	C	509	CLA	C1A-C2A-CAA-CBA
30	c	509	CLA	C1A-C2A-CAA-CBA
30	C	507	CLA	C16-C17-C18-C20
30	c	507	CLA	C16-C17-C18-C20
30	21	306	CLA	C16-C17-C18-C20
31	d	404	PHO	C16-C17-C18-C20
30	12	307	CLA	C10-C11-C12-C13
30	D	401	CLA	C2-C1-O2A-CGA
30	W	103	CLA	C2-C1-O2A-CGA
30	d	401	CLA	C2-C1-O2A-CGA
30	w	103	CLA	C2-C1-O2A-CGA
30	z	101	CLA	CBD-CGD-O2D-CED
35	b	621	LHG	C28-C29-C30-C31
36	B	619	LMG	C19-C20-C21-C22
39	c	518	DGD	C6B-C7B-C8B-C9B
39	c	518	DGD	CBB-CCB-CDB-CEB
42	21	313	A86	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
30	b	613	CLA	O1D-CGD-O2D-CED
30	11	303	CLA	C10-C11-C12-C13
30	13	304	CLA	C10-C11-C12-C13
30	14	305	CLA	C10-C11-C12-C13
36	b	618	LMG	C19-C20-C21-C22
39	C	517	DGD	C6B-C7B-C8B-C9B
39	C	517	DGD	CBB-CCB-CDB-CEB
35	B	622	LHG	C28-C29-C30-C31
35	A	408	LHG	C3-O3-P-O4
35	A	408	LHG	C4-O6-P-O4
35	B	622	LHG	C3-O3-P-O5
35	L	101	LHG	C4-O6-P-O5
35	L	102	LHG	C3-O3-P-O5
35	a	407	LHG	C3-O3-P-O4
35	a	407	LHG	C4-O6-P-O4
35	b	621	LHG	C3-O3-P-O5
35	d	409	LHG	C4-O6-P-O5
35	l	102	LHG	C3-O3-P-O5
30	C	519	CLA	CBD-CGD-O2D-CED
36	B	619	LMG	C18-C19-C20-C21
36	b	618	LMG	C18-C19-C20-C21
30	b	604	CLA	O1A-CGA-O2A-C1
30	D	405	CLA	C13-C15-C16-C17
30	d	406	CLA	C13-C15-C16-C17
36	12	301	LMG	C30-C31-C32-C33
30	B	604	CLA	O1A-CGA-O2A-C1
30	18	301	CLA	O1A-CGA-O2A-C1
30	D	401	CLA	C16-C17-C18-C19
30	d	401	CLA	C16-C17-C18-C19
30	21	301	CLA	C16-C17-C18-C19
30	19	309	CLA	C4C-C3C-CAC-CBC
30	B	604	CLA	CAD-CBD-CGD-O1D
30	B	609	CLA	CAD-CBD-CGD-O1D
30	B	612	CLA	CAD-CBD-CGD-O1D
30	C	503	CLA	CAD-CBD-CGD-O1D
30	C	505	CLA	CAD-CBD-CGD-O1D
30	C	506	CLA	CAD-CBD-CGD-O1D
30	C	507	CLA	CAD-CBD-CGD-O1D
30	C	508	CLA	CAD-CBD-CGD-O1D
30	C	520	CLA	CAD-CBD-CGD-O1D
30	b	604	CLA	CAD-CBD-CGD-O1D
30	b	609	CLA	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
30	b	612	CLA	CAD-CBD-CGD-O1D
30	c	503	CLA	CAD-CBD-CGD-O1D
30	c	505	CLA	CAD-CBD-CGD-O1D
30	c	506	CLA	CAD-CBD-CGD-O1D
30	c	507	CLA	CAD-CBD-CGD-O1D
30	c	508	CLA	CAD-CBD-CGD-O1D
30	11	303	CLA	CAD-CBD-CGD-O1D
30	11	305	CLA	CAD-CBD-CGD-O1D
30	12	307	CLA	CAD-CBD-CGD-O1D
30	12	309	CLA	CAD-CBD-CGD-O1D
30	13	304	CLA	CAD-CBD-CGD-O1D
30	13	306	CLA	CAD-CBD-CGD-O1D
30	14	305	CLA	CAD-CBD-CGD-O1D
30	14	307	CLA	CAD-CBD-CGD-O1D
30	15	302	CLA	CAD-CBD-CGD-O1D
30	15	303	CLA	CAD-CBD-CGD-O1D
30	16	307	CLA	CAD-CBD-CGD-O1D
30	17	304	CLA	CAD-CBD-CGD-O1D
30	17	305	CLA	CAD-CBD-CGD-O1D
30	18	305	CLA	CAD-CBD-CGD-O1D
30	19	303	CLA	CAD-CBD-CGD-O1D
30	21	303	CLA	CAD-CBD-CGD-O1D
42	17	311	A86	C26-C27-C29-C30
30	C	508	CLA	C5-C6-C7-C8
30	c	508	CLA	C5-C6-C7-C8
30	21	303	CLA	C10-C11-C12-C13
39	H	102	DGD	CCA-CDA-CEA-CFA
39	h	102	DGD	CCA-CDA-CEA-CFA
36	b	619	LMG	C22-C23-C24-C25
39	C	516	DGD	C4D-C5D-C6D-O5D
39	c	517	DGD	C4D-C5D-C6D-O5D
30	B	601	CLA	C12-C13-C15-C16
30	C	504	CLA	C11-C12-C13-C15
30	C	506	CLA	C11-C12-C13-C15
30	C	509	CLA	C6-C7-C8-C10
30	C	519	CLA	C12-C13-C15-C16
30	b	601	CLA	C12-C13-C15-C16
30	c	504	CLA	C11-C12-C13-C15
30	c	506	CLA	C11-C12-C13-C15
30	c	509	CLA	C6-C7-C8-C10
30	z	101	CLA	C12-C13-C15-C16
30	11	309	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	12	314	CLA	C3A-C2A-CAA-CBA
30	13	310	CLA	C3A-C2A-CAA-CBA
30	14	311	CLA	C3A-C2A-CAA-CBA
30	15	303	CLA	C11-C12-C13-C15
30	16	302	CLA	C6-C7-C8-C10
30	18	305	CLA	C11-C12-C13-C15
30	19	307	CLA	C12-C13-C15-C16
30	21	301	CLA	C11-C12-C13-C15
30	21	303	CLA	C6-C7-C8-C10
31	A	403	PHO	C11-C10-C8-C7
31	d	403	PHO	C11-C10-C8-C7
35	L	101	LHG	C23-C24-C25-C26
35	L	102	LHG	O6-C4-C5-O7
35	d	409	LHG	C23-C24-C25-C26
35	l	102	LHG	O6-C4-C5-O7
36	B	620	LMG	C22-C23-C24-C25
36	1	101	LMG	C16-C17-C18-C19
32	C	518	BCR	C19-C20-C21-C22
32	c	521	BCR	C19-C20-C21-C22
42	11	316	A86	C24-C25-C26-C27
42	12	304	A86	C24-C25-C26-C27
42	13	301	A86	C24-C25-C26-C27
42	13	315	A86	C24-C25-C26-C27
42	15	315	A86	C24-C25-C26-C27
42	15	316	A86	C24-C25-C26-C27
42	18	302	A86	C24-C25-C26-C27
39	C	516	DGD	O6D-C5D-C6D-O5D
39	c	517	DGD	O6D-C5D-C6D-O5D
35	l	102	LHG	C35-C36-C37-C38
30	15	307	CLA	C13-C15-C16-C17
35	L	102	LHG	C35-C36-C37-C38
39	C	517	DGD	C7B-C8B-C9B-CAB
39	c	518	DGD	C7B-C8B-C9B-CAB
30	21	307	CLA	C15-C16-C17-C18
30	C	514	CLA	C16-C17-C18-C19
39	C	517	DGD	C1A-C2A-C3A-C4A
39	c	518	DGD	C1A-C2A-C3A-C4A
39	C	516	DGD	C2D-C1D-O3G-C3G
39	c	517	DGD	C2D-C1D-O3G-C3G
36	B	619	LMG	C16-C17-C18-C19
36	b	618	LMG	C16-C17-C18-C19
36	w	101	LMG	C38-C39-C40-C41

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Mol	Chain	Res	Type	Atoms
36	W	101	LMG	C38-C39-C40-C41
39	h	102	DGD	C5B-C6B-C7B-C8B
30	c	514	CLA	C16-C17-C18-C19
30	17	308	CLA	C16-C17-C18-C19
30	18	303	CLA	C10-C11-C12-C13
30	19	301	CLA	C13-C15-C16-C17
30	21	306	CLA	C5-C6-C7-C8
31	A	403	PHO	C5-C6-C7-C8
30	16	301	CLA	O1A-CGA-O2A-C1
31	d	403	PHO	C5-C6-C7-C8
40	D	404	PL9	C30-C29-C31-C32
40	d	405	PL9	C30-C29-C31-C32
30	16	301	CLA	CBA-CGA-O2A-C1
39	H	102	DGD	C5B-C6B-C7B-C8B
30	B	612	CLA	C11-C10-C8-C9
30	B	623	CLA	C11-C12-C13-C14
30	C	502	CLA	C14-C13-C15-C16
30	C	508	CLA	C14-C13-C15-C16
30	C	519	CLA	C14-C13-C15-C16
30	D	405	CLA	C11-C12-C13-C14
30	b	612	CLA	C11-C10-C8-C9
30	b	622	CLA	C11-C12-C13-C14
30	c	502	CLA	C14-C13-C15-C16
30	c	508	CLA	C14-C13-C15-C16
30	d	406	CLA	C11-C12-C13-C14
30	z	101	CLA	C14-C13-C15-C16
30	11	307	CLA	C14-C13-C15-C16
30	12	311	CLA	C14-C13-C15-C16
30	13	308	CLA	C14-C13-C15-C16
30	14	309	CLA	C14-C13-C15-C16
30	16	301	CLA	C14-C13-C15-C16
30	21	301	CLA	C11-C10-C8-C9
30	11	315	CLA	O1D-CGD-O2D-CED
35	L	102	LHG	C12-C13-C14-C15
30	11	304	CLA	C2A-CAA-CBA-CGA
30	12	308	CLA	C2A-CAA-CBA-CGA
30	13	305	CLA	C2A-CAA-CBA-CGA
30	14	306	CLA	C2A-CAA-CBA-CGA
36	w	101	LMG	C36-C37-C38-C39
39	J	101	DGD	CDB-CEB-CFB-CGB
39	j	101	DGD	CDB-CEB-CFB-CGB
35	l	102	LHG	C12-C13-C14-C15

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Mol	Chain	Res	Type	Atoms
42	19	311	A86	C-C1-C24-C25
30	21	303	CLA	C3-C5-C6-C7
36	W	101	LMG	C36-C37-C38-C39
36	w	101	LMG	C21-C22-C23-C24
30	19	309	CLA	C2C-C3C-CAC-CBC
36	W	101	LMG	C21-C22-C23-C24
30	12	312	CLA	O1D-CGD-O2D-CED
30	C	513	CLA	C10-C11-C12-C13
30	c	513	CLA	C10-C11-C12-C13
30	19	307	CLA	O1A-CGA-O2A-C1
30	D	401	CLA	C2-C3-C5-C6
30	d	401	CLA	C2-C3-C5-C6
30	B	615	CLA	C5-C6-C7-C8
30	b	615	CLA	C5-C6-C7-C8
35	b	621	LHG	C29-C30-C31-C32
30	b	608	CLA	CBD-CGD-O2D-CED
30	21	307	CLA	C13-C15-C16-C17
30	14	302	CLA	O1D-CGD-O2D-CED
33	l	101	SQD	C24-C25-C26-C27
39	h	102	DGD	O2G-C1B-C2B-C3B
35	B	622	LHG	C29-C30-C31-C32
39	H	102	DGD	C4A-C5A-C6A-C7A
30	17	301	CLA	C8-C10-C11-C12
30	B	608	CLA	CBD-CGD-O2D-CED
30	12	303	CLA	O1D-CGD-O2D-CED
30	B	603	CLA	C2A-CAA-CBA-CGA
30	C	506	CLA	C2A-CAA-CBA-CGA
30	b	603	CLA	C2A-CAA-CBA-CGA
30	c	506	CLA	C2A-CAA-CBA-CGA
33	L	103	SQD	C24-C25-C26-C27
36	b	619	LMG	O10-C28-O8-C9
39	h	102	DGD	C4A-C5A-C6A-C7A
39	H	102	DGD	O2G-C1B-C2B-C3B
36	B	620	LMG	O10-C28-O8-C9
39	C	516	DGD	C8A-C9A-CAA-CBA
36	1	101	LMG	C13-C14-C15-C16
42	11	313	A86	C12-C11-C13-C14
42	12	318	A86	C12-C11-C13-C14
42	13	314	A86	C12-C11-C13-C14
42	14	315	A86	C12-C11-C13-C14
42	15	313	A86	C12-C11-C13-C14
42	17	302	A86	C12-C11-C13-C14

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Mol	Chain	Res	Type	Atoms
42	17	314	A86	C12-C11-C13-C14
42	18	315	A86	C12-C11-C13-C14
42	21	313	A86	C12-C11-C13-C14
39	c	517	DGD	C8A-C9A-CAA-CBA
30	19	307	CLA	CBA-CGA-O2A-C1
30	b	605	CLA	O1D-CGD-O2D-CED
30	C	519	CLA	C5-C6-C7-C8
30	11	315	CLA	C13-C15-C16-C17
30	12	303	CLA	C13-C15-C16-C17
30	14	302	CLA	C13-C15-C16-C17
30	B	605	CLA	O1D-CGD-O2D-CED
30	C	519	CLA	O1D-CGD-O2D-CED
32	H	101	BCR	C23-C24-C25-C30
32	h	101	BCR	C23-C24-C25-C30
30	z	101	CLA	O1D-CGD-O2D-CED
30	z	101	CLA	C5-C6-C7-C8
30	12	312	CLA	C13-C15-C16-C17
30	16	303	CLA	C2A-CAA-CBA-CGA
36	b	619	LMG	C32-C33-C34-C35
36	B	620	LMG	C32-C33-C34-C35
35	L	102	LHG	C4-O6-P-O3
35	l	102	LHG	C4-O6-P-O3
36	12	301	LMG	C7-C8-C9-O8
30	C	511	CLA	C11-C12-C13-C15
30	c	511	CLA	C11-C12-C13-C15
30	17	305	CLA	C11-C10-C8-C7
30	17	305	CLA	C11-C12-C13-C15
30	20	209	CLA	CAA-CBA-CGA-O2A
30	19	303	CLA	C3-C5-C6-C7
36	B	619	LMG	C20-C21-C22-C23
30	C	509	CLA	C6-C7-C8-C9
30	c	509	CLA	C6-C7-C8-C9
30	15	303	CLA	C11-C12-C13-C14
30	16	302	CLA	C11-C10-C8-C9
30	18	305	CLA	C11-C12-C13-C14
30	B	606	CLA	C8-C10-C11-C12
30	18	301	CLA	C13-C15-C16-C17
32	C	518	BCR	C9-C10-C11-C12
32	c	521	BCR	C9-C10-C11-C12
30	B	603	CLA	C16-C17-C18-C20
30	b	603	CLA	C16-C17-C18-C20
30	21	301	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
35	L	101	LHG	C10-C11-C12-C13
35	d	409	LHG	C10-C11-C12-C13
36	b	618	LMG	C20-C21-C22-C23
39	C	517	DGD	C5B-C6B-C7B-C8B
39	c	518	DGD	C5B-C6B-C7B-C8B
30	b	606	CLA	C8-C10-C11-C12
30	19	303	CLA	CBD-CGD-O2D-CED
30	B	614	CLA	C13-C15-C16-C17
35	L	101	LHG	C30-C31-C32-C33
30	18	307	CLA	O1D-CGD-O2D-CED
35	d	409	LHG	C30-C31-C32-C33
30	b	614	CLA	C13-C15-C16-C17
30	C	509	CLA	CBA-CGA-O2A-C1
33	L	103	SQD	C11-C12-C13-C14
30	11	315	CLA	C3-C5-C6-C7
30	12	303	CLA	C3-C5-C6-C7
36	12	301	LMG	C15-C16-C17-C18
30	b	605	CLA	C8-C10-C11-C12
30	20	209	CLA	C8-C10-C11-C12
33	l	101	SQD	C11-C12-C13-C14
30	D	401	CLA	C16-C17-C18-C20
30	d	401	CLA	C16-C17-C18-C20
30	c	509	CLA	CBA-CGA-O2A-C1
30	19	303	CLA	CBA-CGA-O2A-C1
35	A	408	LHG	C24-C23-O8-C6
35	a	407	LHG	C24-C23-O8-C6
36	Q	301	LMG	C29-C28-O8-C9
36	c	519	LMG	C29-C28-O8-C9
33	B	621	SQD	O10-C23-O48-C46
30	15	306	CLA	CAA-CBA-CGA-O2A
39	H	102	DGD	C2B-C3B-C4B-C5B
39	c	517	DGD	C8B-C9B-CAB-CBB
30	B	601	CLA	CAA-CBA-CGA-O2A
30	b	601	CLA	CAA-CBA-CGA-O2A
39	C	516	DGD	C8B-C9B-CAB-CBB
39	h	102	DGD	C2B-C3B-C4B-C5B
33	b	620	SQD	O10-C23-O48-C46
35	a	407	LHG	C31-C32-C33-C34
30	13	308	CLA	CAA-CBA-CGA-O1A
30	B	605	CLA	C8-C10-C11-C12
42	21	312	A86	C11-C10-C9-C8
30	12	312	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
30	14	302	CLA	C3-C5-C6-C7
35	A	408	LHG	C31-C32-C33-C34
39	j	101	DGD	C3A-C4A-C5A-C6A
30	C	509	CLA	C10-C11-C12-C13
30	c	509	CLA	C10-C11-C12-C13
39	J	101	DGD	C3A-C4A-C5A-C6A
33	b	620	SQD	C12-C13-C14-C15
30	B	623	CLA	O1A-CGA-O2A-C1
30	19	303	CLA	O1A-CGA-O2A-C1
30	Z	102	CLA	C3-C5-C6-C7
30	12	311	CLA	CAA-CBA-CGA-O1A
30	14	309	CLA	CAA-CBA-CGA-O1A
30	17	303	CLA	C4-C3-C5-C6
30	11	304	CLA	CAA-CBA-CGA-O2A
30	12	308	CLA	CAA-CBA-CGA-O2A
30	13	305	CLA	CAA-CBA-CGA-O2A
30	14	306	CLA	CAA-CBA-CGA-O2A
30	17	306	CLA	CAA-CBA-CGA-O1A
30	b	612	CLA	C5-C6-C7-C8
33	B	621	SQD	C12-C13-C14-C15
30	b	622	CLA	O1A-CGA-O2A-C1
30	B	612	CLA	C5-C6-C7-C8
30	C	514	CLA	C10-C11-C12-C13
30	c	514	CLA	C10-C11-C12-C13
30	12	312	CLA	C8-C10-C11-C12
30	11	307	CLA	CAA-CBA-CGA-O1A
30	11	304	CLA	CAA-CBA-CGA-O1A
30	13	305	CLA	CAA-CBA-CGA-O1A
30	14	306	CLA	CAA-CBA-CGA-O1A
41	F	102	HEM	CAD-CBD-CGD-O1D
41	f	102	HEM	CAD-CBD-CGD-O1D
30	A	404	CLA	C2-C1-O2A-CGA
30	B	610	CLA	C2-C1-O2A-CGA
30	C	506	CLA	C2-C1-O2A-CGA
30	C	511	CLA	C2-C1-O2A-CGA
30	a	403	CLA	C2-C1-O2A-CGA
30	b	610	CLA	C2-C1-O2A-CGA
30	c	506	CLA	C2-C1-O2A-CGA
30	c	511	CLA	C2-C1-O2A-CGA
31	d	403	PHO	C13-C15-C16-C17
30	11	315	CLA	C8-C10-C11-C12
30	14	302	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
31	A	403	PHO	C13-C15-C16-C17
30	12	308	CLA	CAA-CBA-CGA-O1A
30	16	305	CLA	CAA-CBA-CGA-O2A
30	21	304	CLA	CAA-CBA-CGA-O2A
30	C	511	CLA	C2A-CAA-CBA-CGA
30	c	511	CLA	C2A-CAA-CBA-CGA
36	12	301	LMG	O7-C8-C9-O8
36	W	101	LMG	C34-C35-C36-C37
39	c	518	DGD	C8B-C9B-CAB-CBB
39	C	517	DGD	C8B-C9B-CAB-CBB
30	C	507	CLA	C3A-C2A-CAA-CBA
30	c	507	CLA	C3A-C2A-CAA-CBA
30	16	309	CLA	C3A-C2A-CAA-CBA
30	20	204	CLA	C3A-C2A-CAA-CBA
30	21	303	CLA	C3A-C2A-CAA-CBA
30	12	303	CLA	C8-C10-C11-C12
36	w	101	LMG	C34-C35-C36-C37
42	16	310	A86	O-C13-C14-C15
42	17	311	A86	O-C13-C14-C15
42	20	210	A86	O-C13-C14-C15
42	20	212	A86	O-C13-C14-C15
39	C	516	DGD	C2A-C3A-C4A-C5A
39	c	517	DGD	C2A-C3A-C4A-C5A
30	C	520	CLA	C4-C3-C5-C6
40	D	404	PL9	C4-C3-C7-C8
40	d	405	PL9	C4-C3-C7-C8
30	B	605	CLA	C11-C10-C8-C9
30	b	605	CLA	C11-C10-C8-C9
30	15	307	CLA	C14-C13-C15-C16
30	17	308	CLA	C11-C10-C8-C9
30	18	303	CLA	C11-C12-C13-C14
30	21	302	CLA	CAA-CBA-CGA-O1A
36	12	301	LMG	O1-C7-C8-C9
42	19	311	A86	C25-C26-C27-C28
35	L	101	LHG	C35-C36-C37-C38
30	11	308	CLA	CAA-CBA-CGA-O1A
30	12	313	CLA	CAA-CBA-CGA-O1A
30	14	310	CLA	CAA-CBA-CGA-O1A
30	19	304	CLA	CAA-CBA-CGA-O1A
30	21	304	CLA	CAA-CBA-CGA-O1A
30	19	303	CLA	O1D-CGD-O2D-CED
35	d	409	LHG	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
39	J	101	DGD	O1A-C1A-O1G-C1G
30	B	603	CLA	C16-C17-C18-C19
30	b	603	CLA	C16-C17-C18-C19
36	B	620	LMG	O6-C1-O1-C7
36	Q	301	LMG	O6-C1-O1-C7
36	b	619	LMG	O6-C1-O1-C7
36	c	519	LMG	O6-C1-O1-C7
30	17	306	CLA	CAA-CBA-CGA-O2A
30	18	306	CLA	CAA-CBA-CGA-O1A
30	18	311	CLA	CAA-CBA-CGA-O1A
30	12	303	CLA	CBD-CGD-O2D-CED
39	j	101	DGD	C3B-C4B-C5B-C6B
30	13	309	CLA	CAA-CBA-CGA-O1A
30	16	306	CLA	CAA-CBA-CGA-O2A
30	20	208	CLA	CAA-CBA-CGA-O1A
30	B	603	CLA	C1A-C2A-CAA-CBA
30	C	519	CLA	C1A-C2A-CAA-CBA
30	b	603	CLA	C1A-C2A-CAA-CBA
30	z	101	CLA	C1A-C2A-CAA-CBA
30	11	302	CLA	C1A-C2A-CAA-CBA
30	12	306	CLA	C1A-C2A-CAA-CBA
30	13	303	CLA	C1A-C2A-CAA-CBA
30	14	304	CLA	C1A-C2A-CAA-CBA
30	15	305	CLA	C1A-C2A-CAA-CBA
30	21	307	CLA	C1A-C2A-CAA-CBA
30	C	510	CLA	C6-C7-C8-C10
30	W	102	CLA	C11-C12-C13-C15
30	c	510	CLA	C6-C7-C8-C10
30	w	102	CLA	C11-C12-C13-C15
30	C	509	CLA	O1A-CGA-O2A-C1
30	c	509	CLA	O1A-CGA-O2A-C1
39	j	101	DGD	O1A-C1A-O1G-C1G
30	15	304	CLA	CAA-CBA-CGA-O2A
30	18	311	CLA	CAA-CBA-CGA-O2A
30	19	304	CLA	CAA-CBA-CGA-O2A
30	20	208	CLA	CAA-CBA-CGA-O2A
32	Z	101	BCR	C19-C20-C21-C22
32	c	515	BCR	C19-C20-C21-C22
39	J	101	DGD	C3B-C4B-C5B-C6B
30	18	306	CLA	CAA-CBA-CGA-O2A
30	20	205	CLA	CAA-CBA-CGA-O1A
30	20	205	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
36	D	408	LMG	C15-C16-C17-C18
36	d	410	LMG	C15-C16-C17-C18
30	C	519	CLA	C2A-CAA-CBA-CGA
30	z	101	CLA	C2A-CAA-CBA-CGA
30	20	202	CLA	C10-C11-C12-C13
36	B	619	LMG	C11-C12-C13-C14
30	16	306	CLA	CAA-CBA-CGA-O1A
30	19	302	CLA	CAA-CBA-CGA-O2A
35	L	101	LHG	C9-C10-C11-C12
35	d	409	LHG	C9-C10-C11-C12
30	21	306	CLA	C10-C11-C12-C13
30	21	307	CLA	CBA-CGA-O2A-C1
36	b	618	LMG	C11-C12-C13-C14
30	16	302	CLA	C15-C16-C17-C18
30	16	305	CLA	CAA-CBA-CGA-O1A
41	F	102	HEM	CAD-CBD-CGD-O2D
41	f	102	HEM	CAD-CBD-CGD-O2D
35	b	621	LHG	C14-C15-C16-C17
30	w	102	CLA	C4-C3-C5-C6
35	B	622	LHG	C14-C15-C16-C17
36	D	408	LMG	C28-C29-C30-C31
36	d	410	LMG	C28-C29-C30-C31
30	C	520	CLA	C2-C3-C5-C6
40	D	404	PL9	C12-C11-C9-C8
40	d	405	PL9	C12-C11-C9-C8
30	15	304	CLA	CAA-CBA-CGA-O1A
30	18	304	CLA	CAA-CBA-CGA-O2A
30	19	308	CLA	CAA-CBA-CGA-O2A
41	F	102	HEM	CAA-CBA-CGA-O1A
41	f	102	HEM	CAA-CBA-CGA-O1A
30	11	315	CLA	CBD-CGD-O2D-CED
30	12	312	CLA	CBD-CGD-O2D-CED
42	11	310	A86	C13-C14-C15-C16
42	11	313	A86	C13-C14-C15-C16
42	12	315	A86	C13-C14-C15-C16
42	12	318	A86	C13-C14-C15-C16
42	13	311	A86	C13-C14-C15-C16
42	13	314	A86	C13-C14-C15-C16
42	14	312	A86	C13-C14-C15-C16
42	14	315	A86	C13-C14-C15-C16
42	15	310	A86	C13-C14-C15-C16
42	15	313	A86	C13-C14-C15-C16

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Mol	Chain	Res	Type	Atoms
42	17	314	A86	C13-C14-C15-C16
42	18	313	A86	C13-C14-C15-C16
42	18	315	A86	C13-C14-C15-C16
42	19	311	A86	C25-C26-C27-C29
42	21	310	A86	C13-C14-C15-C16
30	15	306	CLA	CAA-CBA-CGA-O1A
30	16	309	CLA	CAA-CBA-CGA-O2A
30	21	302	CLA	CAA-CBA-CGA-O2A
33	L	103	SQD	C9-C10-C11-C12
33	l	101	SQD	C9-C10-C11-C12
36	Q	301	LMG	C35-C36-C37-C38
30	16	302	CLA	C8-C10-C11-C12
30	15	305	CLA	CAA-CBA-CGA-O2A
30	19	308	CLA	CAA-CBA-CGA-O1A
36	12	301	LMG	C31-C32-C33-C34
30	C	514	CLA	C16-C17-C18-C20
30	c	514	CLA	C16-C17-C18-C20
36	c	519	LMG	C35-C36-C37-C38
39	H	102	DGD	C9B-CAB-CBB-CCB
36	B	620	LMG	C36-C37-C38-C39
30	b	601	CLA	CBA-CGA-O2A-C1
30	14	302	CLA	CBD-CGD-O2D-CED
40	D	407	PL9	C39-C41-C42-C43
40	d	408	PL9	C39-C41-C42-C43
42	11	316	A86	C10-C11-C13-C14
42	12	304	A86	C10-C11-C13-C14
42	13	315	A86	C10-C11-C13-C14
42	15	316	A86	C10-C11-C13-C14
42	16	310	A86	C10-C11-C13-C14
30	17	307	CLA	CAA-CBA-CGA-O2A
30	20	207	CLA	CAA-CBA-CGA-O2A
36	b	619	LMG	C36-C37-C38-C39
30	W	102	CLA	C4-C3-C5-C6
30	21	306	CLA	C2-C1-O2A-CGA
39	h	102	DGD	C9B-CAB-CBB-CCB
30	B	601	CLA	O1A-CGA-O2A-C1
30	b	601	CLA	O1A-CGA-O2A-C1
30	21	307	CLA	O1A-CGA-O2A-C1
30	18	304	CLA	CAA-CBA-CGA-O1A
30	20	206	CLA	CAA-CBA-CGA-O2A
30	20	204	CLA	C16-C17-C18-C19
30	18	309	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
30	B	601	CLA	CBA-CGA-O2A-C1
33	L	103	SQD	C19-C20-C21-C22
30	19	302	CLA	CAA-CBA-CGA-O1A
30	20	206	CLA	CAA-CBA-CGA-O1A
30	20	207	CLA	CAA-CBA-CGA-O1A
33	l	101	SQD	C19-C20-C21-C22
30	18	301	CLA	C8-C10-C11-C12
31	D	403	PHO	O1D-CGD-O2D-CED
41	F	102	HEM	CAA-CBA-CGA-O2A
41	f	102	HEM	CAA-CBA-CGA-O2A
36	B	619	LMG	C34-C35-C36-C37
30	A	404	CLA	O1A-CGA-O2A-C1
30	a	403	CLA	O1A-CGA-O2A-C1
32	B	617	BCR	C23-C24-C25-C30
32	B	618	BCR	C23-C24-C25-C30
32	B	624	BCR	C23-C24-C25-C26
32	B	624	BCR	C23-C24-C25-C30
32	C	515	BCR	C23-C24-C25-C26
32	C	515	BCR	C23-C24-C25-C30
32	b	616	BCR	C23-C24-C25-C30
32	b	617	BCR	C23-C24-C25-C30
32	b	623	BCR	C23-C24-C25-C26
32	b	623	BCR	C23-C24-C25-C30
32	c	516	BCR	C23-C24-C25-C26
32	c	516	BCR	C23-C24-C25-C30
36	b	618	LMG	C34-C35-C36-C37
39	c	518	DGD	CCB-CDB-CEB-CFB
30	b	608	CLA	O1D-CGD-O2D-CED
31	D	403	PHO	CAA-CBA-CGA-O2A
31	d	404	PHO	CAA-CBA-CGA-O2A
39	H	102	DGD	C1G-C2G-C3G-O3G
39	h	102	DGD	C1G-C2G-C3G-O3G
39	C	517	DGD	CCB-CDB-CEB-CFB
40	D	407	PL9	C15-C14-C16-C17
40	d	408	PL9	C15-C14-C16-C17
32	A	409	BCR	C17-C18-C19-C20
32	a	408	BCR	C17-C18-C19-C20
30	16	309	CLA	CAA-CBA-CGA-O1A
30	20	203	CLA	CAA-CBA-CGA-O2A
36	Q	301	LMG	C16-C17-C18-C19
36	c	519	LMG	C16-C17-C18-C19
30	a	403	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
30	11	308	CLA	CAA-CBA-CGA-O2A
30	17	307	CLA	C4C-C3C-CAC-CBC
30	B	608	CLA	O1D-CGD-O2D-CED
31	d	404	PHO	O1D-CGD-O2D-CED
30	12	313	CLA	CAA-CBA-CGA-O2A
30	13	309	CLA	CAA-CBA-CGA-O2A
30	14	310	CLA	CAA-CBA-CGA-O2A
30	B	605	CLA	C2A-CAA-CBA-CGA
30	b	605	CLA	C2A-CAA-CBA-CGA
30	11	305	CLA	C2A-CAA-CBA-CGA
30	12	309	CLA	C2A-CAA-CBA-CGA
30	13	306	CLA	C2A-CAA-CBA-CGA
30	14	307	CLA	C2A-CAA-CBA-CGA
30	21	306	CLA	C2A-CAA-CBA-CGA
30	21	307	CLA	C2A-CAA-CBA-CGA
30	15	305	CLA	CAA-CBA-CGA-O1A
30	A	404	CLA	CBA-CGA-O2A-C1
30	B	623	CLA	CBA-CGA-O2A-C1
36	1	101	LMG	C2-C1-O1-C7
30	19	306	CLA	CAA-CBA-CGA-O2A
30	21	305	CLA	CAA-CBA-CGA-O1A
39	H	102	DGD	C4B-C5B-C6B-C7B
30	19	305	CLA	CAA-CBA-CGA-O1A
30	20	203	CLA	CAA-CBA-CGA-O1A
30	21	305	CLA	CAA-CBA-CGA-O2A
30	B	611	CLA	C2A-CAA-CBA-CGA
30	b	611	CLA	C2A-CAA-CBA-CGA
30	17	307	CLA	CAA-CBA-CGA-O1A
32	Y	101	BCR	C16-C17-C18-C36
32	c	520	BCR	C16-C17-C18-C36
39	h	102	DGD	C4B-C5B-C6B-C7B
30	C	520	CLA	CAA-CBA-CGA-O2A
30	20	202	CLA	CAA-CBA-CGA-O2A
30	B	604	CLA	C4-C3-C5-C6
30	Z	102	CLA	C4-C3-C5-C6
30	b	604	CLA	C4-C3-C5-C6
30	C	505	CLA	C5-C6-C7-C8
30	c	505	CLA	C5-C6-C7-C8
30	11	306	CLA	CAA-CBA-CGA-O2A
30	12	310	CLA	CAA-CBA-CGA-O2A
30	13	307	CLA	CAA-CBA-CGA-O2A
30	C	504	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
30	W	102	CLA	C2-C3-C5-C6
30	c	504	CLA	C2-C3-C5-C6
30	w	102	CLA	C2-C3-C5-C6
30	17	305	CLA	C16-C17-C18-C19
30	15	307	CLA	CAA-CBA-CGA-O2A
39	J	101	DGD	O1G-C1A-C2A-C3A
39	j	101	DGD	O1G-C1A-C2A-C3A
30	B	601	CLA	C14-C13-C15-C16
30	B	602	CLA	C6-C7-C8-C9
30	B	615	CLA	C14-C13-C15-C16
30	C	519	CLA	C11-C10-C8-C9
30	b	601	CLA	C14-C13-C15-C16
30	b	602	CLA	C6-C7-C8-C9
30	b	615	CLA	C14-C13-C15-C16
30	z	101	CLA	C11-C10-C8-C9
30	17	305	CLA	C11-C12-C13-C14
30	19	307	CLA	C14-C13-C15-C16
30	14	308	CLA	CAA-CBA-CGA-O2A
30	15	303	CLA	C3A-C2A-CAA-CBA
30	19	303	CLA	C3A-C2A-CAA-CBA
36	w	101	LMG	O10-C28-O8-C9
30	C	502	CLA	CAA-CBA-CGA-O2A
35	A	408	LHG	C16-C17-C18-C19
35	B	622	LHG	C10-C11-C12-C13
35	a	407	LHG	C16-C17-C18-C19
36	w	101	LMG	C39-C40-C41-C42
30	18	308	CLA	CAA-CBA-CGA-O1A
30	18	308	CLA	CAA-CBA-CGA-O2A
30	C	502	CLA	CAD-CBD-CGD-O2D
30	C	504	CLA	CAD-CBD-CGD-O2D
30	C	519	CLA	CAD-CBD-CGD-O2D
30	c	502	CLA	CAD-CBD-CGD-O2D
30	c	504	CLA	CAD-CBD-CGD-O2D
30	z	101	CLA	CAD-CBD-CGD-O2D
30	11	302	CLA	CAD-CBD-CGD-O2D
30	11	307	CLA	CAD-CBD-CGD-O2D
30	12	306	CLA	CAD-CBD-CGD-O2D
30	12	311	CLA	CAD-CBD-CGD-O2D
30	13	303	CLA	CAD-CBD-CGD-O2D
30	13	308	CLA	CAD-CBD-CGD-O2D
30	14	304	CLA	CAD-CBD-CGD-O2D
30	14	309	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
30	15	305	CLA	CAD-CBD-CGD-O2D
30	15	306	CLA	CAD-CBD-CGD-O2D
30	16	303	CLA	CAD-CBD-CGD-O2D
30	16	309	CLA	CAD-CBD-CGD-O2D
30	17	306	CLA	CAD-CBD-CGD-O2D
30	17	308	CLA	CAD-CBD-CGD-O2D
30	19	308	CLA	CAD-CBD-CGD-O2D
30	20	209	CLA	CAD-CBD-CGD-O2D
30	21	304	CLA	CAD-CBD-CGD-O2D
30	21	305	CLA	CAD-CBD-CGD-O2D
42	20	211	A86	C28-C27-C29-C30
42	21	311	A86	C28-C27-C29-C30
30	b	622	CLA	CBA-CGA-O2A-C1
30	17	305	CLA	C16-C17-C18-C20
39	C	517	DGD	O1B-C1B-O2G-C2G
39	c	518	DGD	O1B-C1B-O2G-C2G
35	b	621	LHG	C10-C11-C12-C13
36	W	101	LMG	C39-C40-C41-C42
30	B	605	CLA	C13-C15-C16-C17
30	b	605	CLA	C13-C15-C16-C17
33	b	620	SQD	C24-C25-C26-C27
30	A	404	CLA	CAA-CBA-CGA-O2A
30	W	103	CLA	CAA-CBA-CGA-O2A
30	a	403	CLA	CAA-CBA-CGA-O2A
30	c	502	CLA	CAA-CBA-CGA-O2A
30	c	513	CLA	C15-C16-C17-C18
33	B	621	SQD	C24-C25-C26-C27
30	Z	102	CLA	C2-C3-C5-C6
40	D	407	PL9	C28-C29-C31-C32
40	d	408	PL9	C28-C29-C31-C32
30	w	103	CLA	CAA-CBA-CGA-O2A
42	11	314	A86	C5-C6-C8-C9
42	12	319	A86	C5-C6-C8-C9
42	14	301	A86	C5-C6-C8-C9
42	14	316	A86	C5-C6-C8-C9
42	15	314	A86	C5-C6-C8-C9
42	16	313	A86	C5-C6-C8-C9
42	17	316	A86	C5-C6-C8-C9
40	D	407	PL9	C29-C31-C32-C33
40	d	408	PL9	C29-C31-C32-C33
42	21	313	A86	C12-C11-C13-O
30	12	310	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
30	14	308	CLA	CAA-CBA-CGA-O1A
30	15	302	CLA	CAA-CBA-CGA-O1A
30	17	310	CLA	CAA-CBA-CGA-O1A
30	17	310	CLA	CAA-CBA-CGA-O2A
30	21	309	CLA	CAA-CBA-CGA-O1A
31	D	403	PHO	CBD-CGD-O2D-CED
31	d	404	PHO	CBD-CGD-O2D-CED
36	W	101	LMG	O10-C28-O8-C9
30	C	513	CLA	C15-C16-C17-C18
30	C	509	CLA	C3-C5-C6-C7
30	11	306	CLA	CAA-CBA-CGA-O1A
30	13	307	CLA	CAA-CBA-CGA-O1A
30	15	308	CLA	CAA-CBA-CGA-O1A
30	15	308	CLA	CAA-CBA-CGA-O2A
30	18	310	CLA	C13-C15-C16-C17
30	C	504	CLA	O2A-C1-C2-C3
30	C	510	CLA	O2A-C1-C2-C3
30	c	504	CLA	O2A-C1-C2-C3
30	c	510	CLA	O2A-C1-C2-C3
31	A	403	PHO	O2A-C1-C2-C3
31	d	403	PHO	O2A-C1-C2-C3
30	16	307	CLA	C2A-CAA-CBA-CGA
30	17	301	CLA	C13-C15-C16-C17
30	16	302	CLA	CAA-CBA-CGA-O2A
30	c	509	CLA	C3-C5-C6-C7
30	16	307	CLA	CAA-CBA-CGA-O1A
30	16	307	CLA	CAA-CBA-CGA-O2A
30	18	307	CLA	CAA-CBA-CGA-O1A
30	18	307	CLA	CAA-CBA-CGA-O2A
30	19	306	CLA	CAA-CBA-CGA-O1A
30	B	607	CLA	CHA-CBD-CGD-O1D
30	C	507	CLA	CHA-CBD-CGD-O2D
30	C	508	CLA	CHA-CBD-CGD-O2D
30	C	513	CLA	CHA-CBD-CGD-O2D
30	b	607	CLA	CHA-CBD-CGD-O1D
30	c	507	CLA	CHA-CBD-CGD-O2D
30	c	508	CLA	CHA-CBD-CGD-O2D
30	c	513	CLA	CHA-CBD-CGD-O2D
30	16	302	CLA	CHA-CBD-CGD-O1D
30	16	302	CLA	CHA-CBD-CGD-O2D
30	16	305	CLA	CHA-CBD-CGD-O2D
30	16	307	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
30	17	310	CLA	CHA-CBD-CGD-O2D
30	18	306	CLA	CHA-CBD-CGD-O1D
30	18	306	CLA	CHA-CBD-CGD-O2D
30	18	309	CLA	CHA-CBD-CGD-O2D
30	18	310	CLA	CHA-CBD-CGD-O1D
30	18	310	CLA	CHA-CBD-CGD-O2D
30	19	304	CLA	CHA-CBD-CGD-O1D
30	19	304	CLA	CHA-CBD-CGD-O2D
30	19	306	CLA	CHA-CBD-CGD-O1D
30	19	306	CLA	CHA-CBD-CGD-O2D
30	20	205	CLA	CHA-CBD-CGD-O1D
30	20	205	CLA	CHA-CBD-CGD-O2D
30	20	206	CLA	CHA-CBD-CGD-O1D
30	20	206	CLA	CHA-CBD-CGD-O2D
30	20	207	CLA	CHA-CBD-CGD-O1D
30	20	208	CLA	CHA-CBD-CGD-O1D
30	20	208	CLA	CHA-CBD-CGD-O2D
30	21	303	CLA	CHA-CBD-CGD-O2D
30	21	308	CLA	CHA-CBD-CGD-O1D
30	21	308	CLA	CHA-CBD-CGD-O2D
30	21	309	CLA	CHA-CBD-CGD-O1D
30	21	309	CLA	CHA-CBD-CGD-O2D
32	B	616	BCR	C19-C20-C21-C22
32	m	103	BCR	C19-C20-C21-C22
30	d	402	CLA	C4C-C3C-CAC-CBC
40	d	405	PL9	C32-C33-C34-C36
30	D	402	CLA	C4C-C3C-CAC-CBC
32	F	101	BCR	C11-C10-C9-C8
32	f	101	BCR	C11-C10-C9-C8
30	21	307	CLA	C16-C17-C18-C20
30	14	303	CLA	C8-C10-C11-C12
30	16	304	CLA	CAA-CBA-CGA-O2A
30	17	301	CLA	CAA-CBA-CGA-O2A
36	D	408	LMG	C16-C17-C18-C19
39	C	517	DGD	O1G-C1G-C2G-O2G
39	c	518	DGD	O1G-C1G-C2G-O2G
36	d	410	LMG	C16-C17-C18-C19
30	21	305	CLA	C4C-C3C-CAC-CBC
30	d	401	CLA	CBD-CGD-O2D-CED
31	D	403	PHO	CHA-CBD-CGD-O1D
31	d	404	PHO	CHA-CBD-CGD-O1D
42	17	311	A86	C10-C11-C13-O

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Mol	Chain	Res	Type	Atoms
42	21	313	A86	C10-C11-C13-O
30	B	605	CLA	CBA-CGA-O2A-C1
30	b	605	CLA	CBA-CGA-O2A-C1
30	20	206	CLA	C4C-C3C-CAC-CBC
35	L	101	LHG	C11-C12-C13-C14
35	d	409	LHG	C11-C12-C13-C14
30	D	401	CLA	CBD-CGD-O2D-CED
30	15	302	CLA	CAA-CBA-CGA-O2A
30	21	309	CLA	CAA-CBA-CGA-O2A
30	11	301	CLA	C8-C10-C11-C12
30	A	404	CLA	C11-C10-C8-C7
30	B	604	CLA	C11-C10-C8-C7
30	B	623	CLA	C11-C12-C13-C15
30	a	403	CLA	C11-C10-C8-C7
30	b	604	CLA	C11-C10-C8-C7
30	b	622	CLA	C11-C12-C13-C15
30	19	307	CLA	C6-C7-C8-C10
30	20	202	CLA	C16-C17-C18-C19
39	h	102	DGD	CDB-CEB-CFB-CGB
30	13	302	CLA	C8-C10-C11-C12
30	19	305	CLA	CAA-CBA-CGA-O2A
30	21	305	CLA	C2C-C3C-CAC-CBC
30	17	305	CLA	C11-C10-C8-C9
35	l	102	LHG	C11-C10-C9-C8
30	12	305	CLA	C8-C10-C11-C12
39	H	102	DGD	CDB-CEB-CFB-CGB
30	12	314	CLA	CAA-CBA-CGA-O1A
33	A	406	SQD	C5-C6-S-O8
33	a	405	SQD	C5-C6-S-O8
30	11	309	CLA	CAA-CBA-CGA-O1A
30	W	103	CLA	CAA-CBA-CGA-O1A
30	w	103	CLA	CAA-CBA-CGA-O1A
35	L	102	LHG	C11-C10-C9-C8
30	13	310	CLA	CAA-CBA-CGA-O1A
30	14	311	CLA	CAA-CBA-CGA-O1A
42	12	317	A86	C-C1-C24-C25
42	13	313	A86	C-C1-C24-C25
30	C	506	CLA	C10-C11-C12-C13
30	B	608	CLA	C4-C3-C5-C6
30	b	608	CLA	C4-C3-C5-C6
33	A	406	SQD	C30-C31-C32-C33
30	C	520	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
33	A	406	SQD	C35-C36-C37-C38
33	a	405	SQD	C30-C31-C32-C33
30	c	506	CLA	C10-C11-C12-C13
30	21	303	CLA	C15-C16-C17-C18
35	B	622	LHG	C11-C12-C13-C14
35	b	621	LHG	C11-C12-C13-C14
30	19	303	CLA	C1A-C2A-CAA-CBA
30	20	203	CLA	C1A-C2A-CAA-CBA
30	21	308	CLA	C1A-C2A-CAA-CBA
33	a	405	SQD	C35-C36-C37-C38
36	B	619	LMG	C37-C38-C39-C40
36	b	618	LMG	C37-C38-C39-C40
30	20	202	CLA	CAA-CBA-CGA-O1A
30	19	307	CLA	C15-C16-C17-C18
36	Q	301	LMG	C39-C40-C41-C42
36	c	519	LMG	C39-C40-C41-C42
30	15	307	CLA	CAA-CBA-CGA-O1A
30	20	204	CLA	CAA-CBA-CGA-O2A
31	D	403	PHO	C8-C10-C11-C12
31	d	404	PHO	C8-C10-C11-C12
35	a	407	LHG	C18-C19-C20-C21
35	A	408	LHG	C18-C19-C20-C21
30	C	502	CLA	CAA-CBA-CGA-O1A
30	16	302	CLA	CAA-CBA-CGA-O1A
36	1	101	LMG	C31-C32-C33-C34
35	L	102	LHG	C17-C18-C19-C20
30	a	403	CLA	CAA-CBA-CGA-O1A
30	c	502	CLA	CAA-CBA-CGA-O1A
30	B	605	CLA	C10-C11-C12-C13
30	b	605	CLA	C10-C11-C12-C13
35	d	409	LHG	C34-C35-C36-C37
35	l	102	LHG	C17-C18-C19-C20
39	C	517	DGD	CCA-CDA-CEA-CFA
30	19	309	CLA	CAA-CBA-CGA-O2A
30	21	308	CLA	CAA-CBA-CGA-O2A
35	L	101	LHG	C16-C17-C18-C19
35	d	409	LHG	C16-C17-C18-C19
39	c	518	DGD	CCA-CDA-CEA-CFA
30	A	404	CLA	CAA-CBA-CGA-O1A
40	D	404	PL9	C32-C33-C34-C36
30	b	607	CLA	C8-C10-C11-C12
39	j	101	DGD	CCA-CDA-CEA-CFA

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Mol	Chain	Res	Type	Atoms
35	L	101	LHG	C34-C35-C36-C37
40	d	408	PL9	C12-C11-C9-C10
36	Q	301	LMG	C34-C35-C36-C37
36	12	301	LMG	C16-C17-C18-C19
30	16	304	CLA	C16-C17-C18-C19
30	B	607	CLA	CAD-CBD-CGD-O1D
30	b	607	CLA	CAD-CBD-CGD-O1D
30	11	307	CLA	CAD-CBD-CGD-O1D
30	12	311	CLA	CAD-CBD-CGD-O1D
30	13	308	CLA	CAD-CBD-CGD-O1D
30	14	309	CLA	CAD-CBD-CGD-O1D
30	18	307	CLA	CAD-CBD-CGD-O1D
30	18	309	CLA	CAD-CBD-CGD-O1D
30	19	301	CLA	CAD-CBD-CGD-O1D
30	21	302	CLA	CAD-CBD-CGD-O1D
42	20	211	A86	C26-C27-C29-C30
42	21	311	A86	C26-C27-C29-C30
30	c	508	CLA	CAA-CBA-CGA-O2A
30	B	607	CLA	C8-C10-C11-C12
30	B	607	CLA	C10-C11-C12-C13
30	b	607	CLA	C10-C11-C12-C13
30	17	305	CLA	C5-C6-C7-C8
36	c	519	LMG	C34-C35-C36-C37
30	B	605	CLA	O1A-CGA-O2A-C1
30	b	605	CLA	O1A-CGA-O2A-C1
39	J	101	DGD	CCA-CDA-CEA-CFA
30	C	504	CLA	C3-C5-C6-C7
30	C	506	CLA	CAA-CBA-CGA-O2A
30	C	508	CLA	CAA-CBA-CGA-O2A
30	c	506	CLA	CAA-CBA-CGA-O2A
30	17	301	CLA	CAA-CBA-CGA-O1A
36	M	102	LMG	C8-C9-O8-C28
36	m	102	LMG	C8-C9-O8-C28
30	C	511	CLA	CAA-CBA-CGA-O2A
30	C	514	CLA	CAA-CBA-CGA-O2A
30	C	519	CLA	CAA-CBA-CGA-O2A
30	Z	102	CLA	CAA-CBA-CGA-O2A
30	c	514	CLA	CAA-CBA-CGA-O2A
30	z	101	CLA	CAA-CBA-CGA-O2A
30	15	303	CLA	CAA-CBA-CGA-O2A
30	17	305	CLA	CAA-CBA-CGA-O2A
30	18	309	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
30	21	306	CLA	C13-C15-C16-C17
30	c	504	CLA	C3-C5-C6-C7
30	16	304	CLA	CAA-CBA-CGA-O1A
30	13	303	CLA	O1D-CGD-O2D-CED
40	D	407	PL9	C12-C11-C9-C10
42	17	313	A86	C-C1-C24-C25
30	B	604	CLA	C11-C12-C13-C15
30	B	610	CLA	C11-C10-C8-C7
30	B	610	CLA	C11-C12-C13-C15
30	C	502	CLA	C12-C13-C15-C16
30	b	604	CLA	C11-C12-C13-C15
30	b	610	CLA	C11-C10-C8-C7
30	b	610	CLA	C11-C12-C13-C15
30	c	502	CLA	C12-C13-C15-C16
30	11	302	CLA	C3A-C2A-CAA-CBA
30	12	306	CLA	C3A-C2A-CAA-CBA
30	13	303	CLA	C3A-C2A-CAA-CBA
30	14	304	CLA	C3A-C2A-CAA-CBA
30	15	301	CLA	C12-C13-C15-C16
30	17	303	CLA	C2-C3-C5-C6
30	18	305	CLA	C11-C10-C8-C7
30	18	305	CLA	CAA-CBA-CGA-O1A
36	D	408	LMG	O9-C10-C11-C12
36	d	410	LMG	O9-C10-C11-C12
30	11	309	CLA	CAA-CBA-CGA-O2A
30	12	314	CLA	CAA-CBA-CGA-O2A
30	13	310	CLA	CAA-CBA-CGA-O2A
30	14	311	CLA	CAA-CBA-CGA-O2A
30	15	309	CLA	CAA-CBA-CGA-O2A
30	18	312	CLA	CAA-CBA-CGA-O2A
30	19	309	CLA	CAA-CBA-CGA-O1A
30	c	511	CLA	CAA-CBA-CGA-O2A
30	11	303	CLA	CAA-CBA-CGA-O2A
30	12	307	CLA	CAA-CBA-CGA-O2A
30	13	304	CLA	CAA-CBA-CGA-O2A
30	14	305	CLA	CAA-CBA-CGA-O2A
30	18	305	CLA	CAA-CBA-CGA-O2A
30	21	303	CLA	CAA-CBA-CGA-O2A
30	21	306	CLA	CAA-CBA-CGA-O2A
30	20	204	CLA	C8-C10-C11-C12
30	17	303	CLA	C4C-C3C-CAC-CBC
32	B	618	BCR	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
32	C	515	BCR	C17-C18-C19-C20
32	b	617	BCR	C17-C18-C19-C20
32	c	516	BCR	C17-C18-C19-C20
42	11	310	A86	C2-C1-C24-C25
42	12	315	A86	C2-C1-C24-C25
42	13	311	A86	C2-C1-C24-C25
42	14	312	A86	C2-C1-C24-C25
42	15	310	A86	C2-C1-C24-C25
42	18	313	A86	C2-C1-C24-C25
42	19	311	A86	C2-C1-C24-C25
30	C	506	CLA	CAA-CBA-CGA-O1A
30	c	506	CLA	CAA-CBA-CGA-O1A
39	C	516	DGD	O1B-C1B-C2B-C3B
39	c	517	DGD	O1B-C1B-C2B-C3B
30	21	308	CLA	CAA-CBA-CGA-O1A
32	Y	101	BCR	C19-C20-C21-C22
32	c	520	BCR	C19-C20-C21-C22
36	b	619	LMG	C20-C21-C22-C23
30	20	202	CLA	C16-C17-C18-C20
42	11	316	A86	O-C13-C14-C15
42	12	304	A86	O-C13-C14-C15
42	13	301	A86	O-C13-C14-C15
42	13	315	A86	O-C13-C14-C15
42	15	315	A86	O-C13-C14-C15
42	15	316	A86	O-C13-C14-C15
42	17	315	A86	O-C13-C14-C15
42	18	302	A86	O-C13-C14-C15
30	19	303	CLA	CAA-CBA-CGA-O2A
39	C	517	DGD	O6D-C1D-O3G-C3G
39	c	518	DGD	O6D-C1D-O3G-C3G
30	11	302	CLA	O1D-CGD-O2D-CED
30	18	309	CLA	C13-C15-C16-C17
30	C	508	CLA	CAA-CBA-CGA-O1A
30	C	511	CLA	CAA-CBA-CGA-O1A
30	c	511	CLA	CAA-CBA-CGA-O1A
30	20	204	CLA	CAA-CBA-CGA-O1A
33	A	406	SQD	O49-C7-C8-C9
40	D	407	PL9	C44-C46-C47-C48
40	d	408	PL9	C44-C46-C47-C48
39	H	102	DGD	C8A-C9A-CAA-CBA
30	B	602	CLA	C13-C15-C16-C17
30	b	602	CLA	C13-C15-C16-C17

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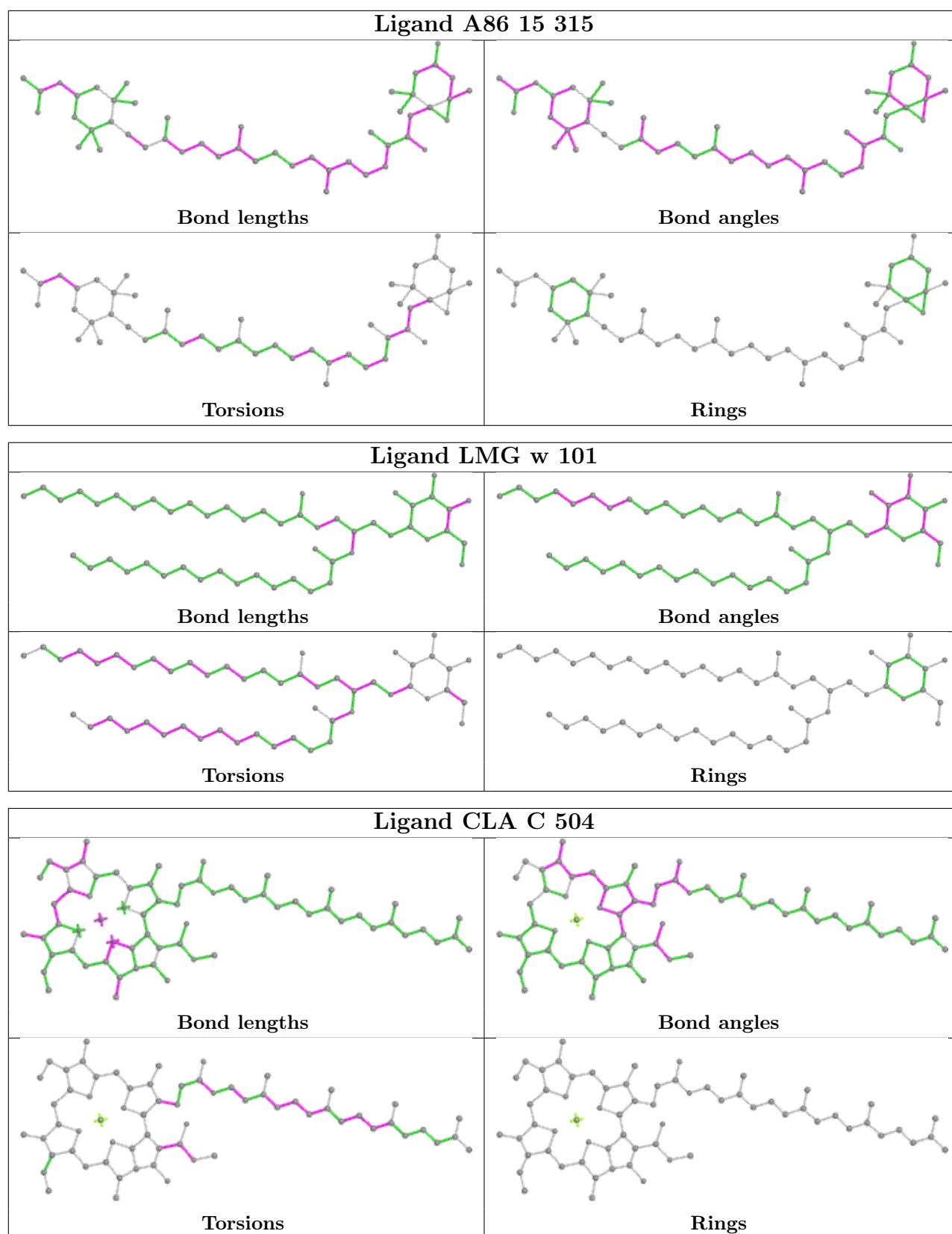
Mol	Chain	Res	Type	Atoms
40	D	407	PL9	C31-C32-C33-C34
40	d	408	PL9	C31-C32-C33-C34
36	B	620	LMG	C20-C21-C22-C23
30	13	302	CLA	CAA-CBA-CGA-O2A
30	14	303	CLA	CAA-CBA-CGA-O2A
39	h	102	DGD	C8A-C9A-CAA-CBA
30	C	519	CLA	CAA-CBA-CGA-O1A
30	c	508	CLA	CAA-CBA-CGA-O1A
30	z	101	CLA	CAA-CBA-CGA-O1A
33	a	405	SQD	O49-C7-C8-C9
30	21	301	CLA	C2A-CAA-CBA-CGA
30	15	309	CLA	CAA-CBA-CGA-O1A
30	21	306	CLA	CAA-CBA-CGA-O1A
30	18	312	CLA	CAA-CBA-CGA-O1A

All (1) ring outliers are listed below:

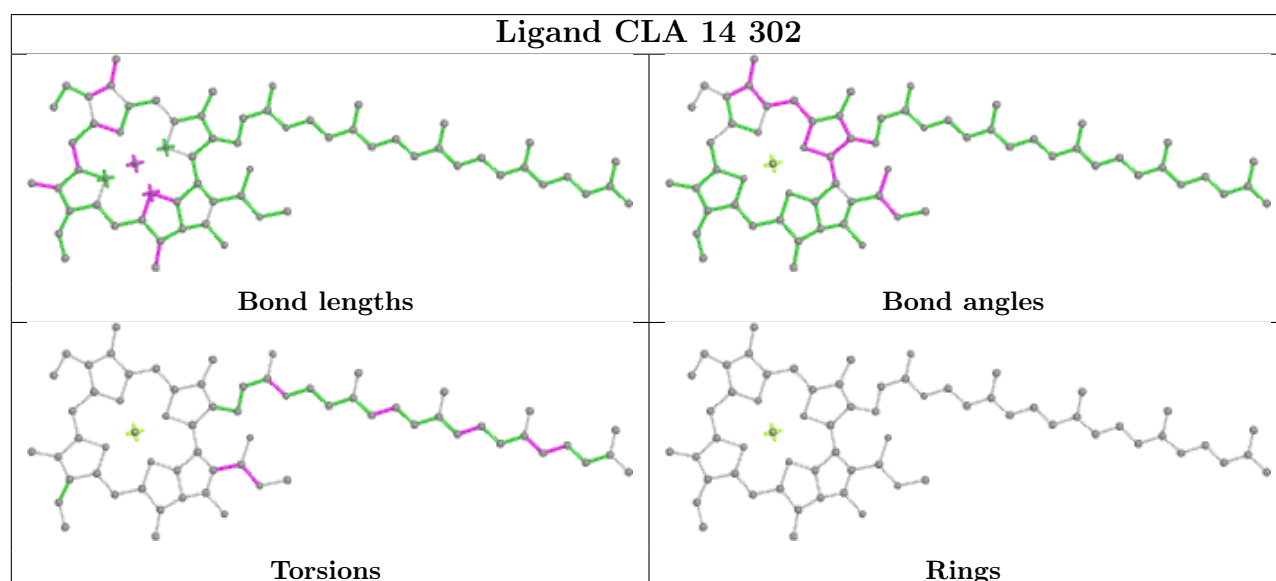
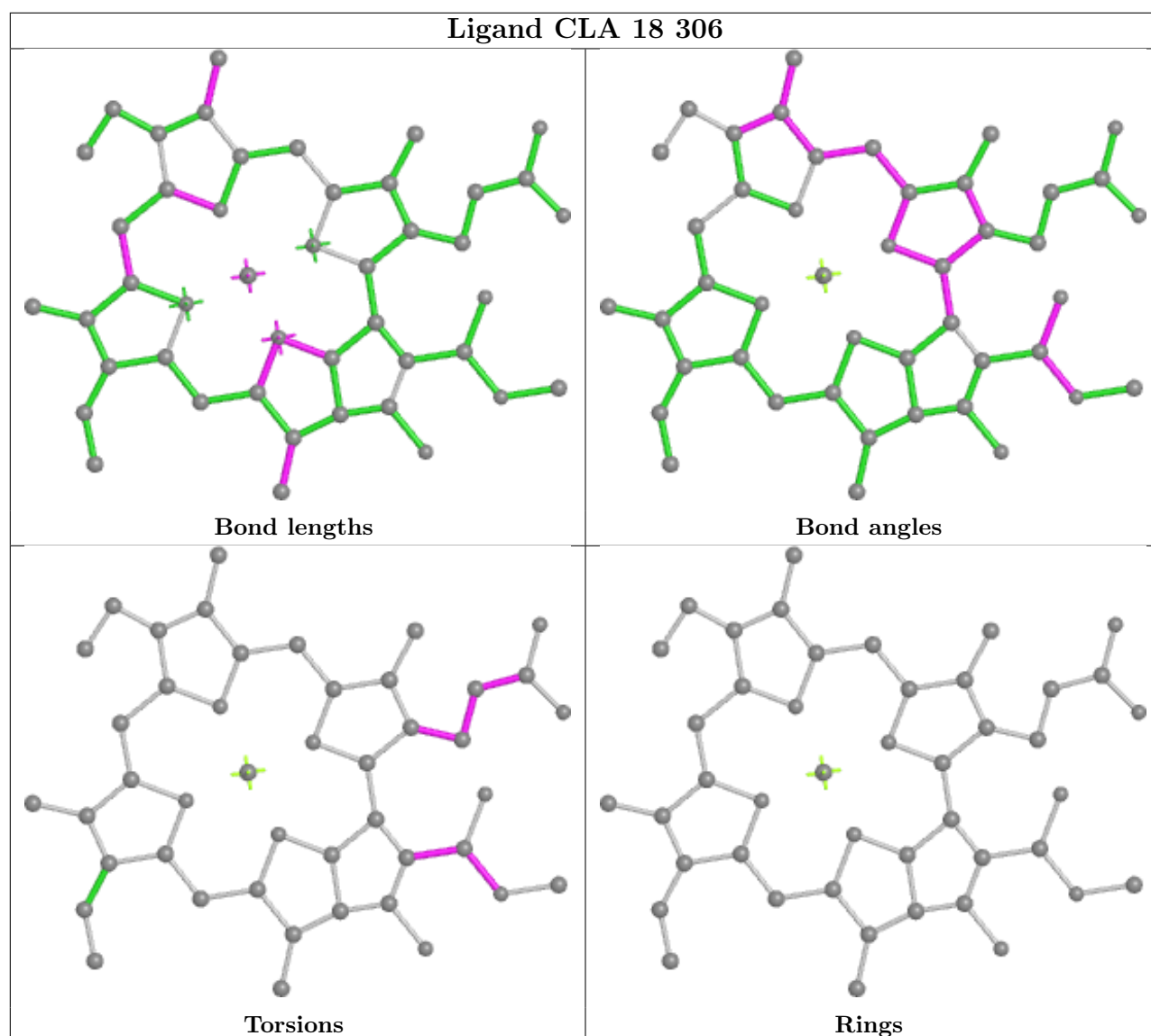
Mol	Chain	Res	Type	Atoms
42	17	302	A86	C31-C32-C33-C34-C35-C36

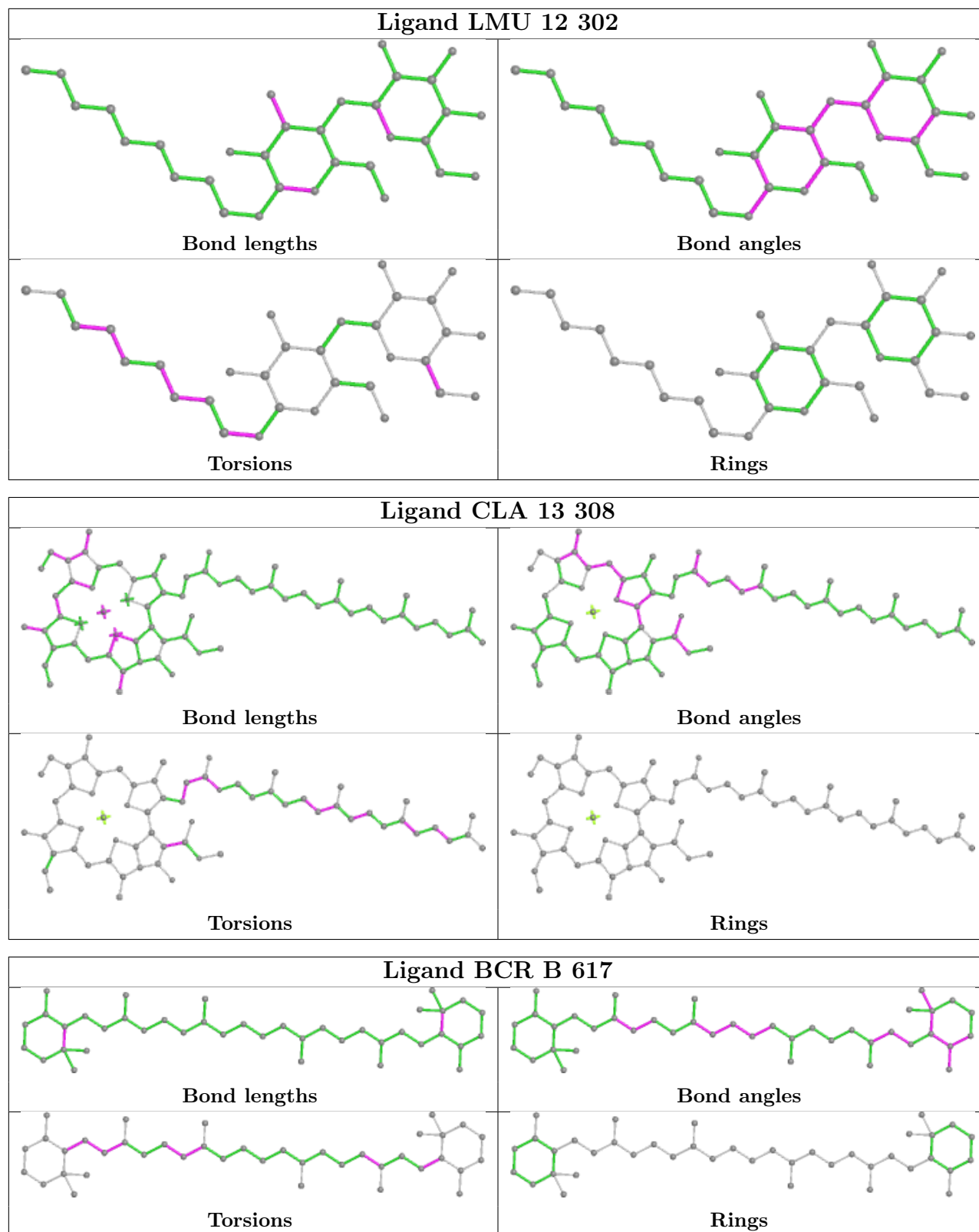
No monomer is involved in short contacts.

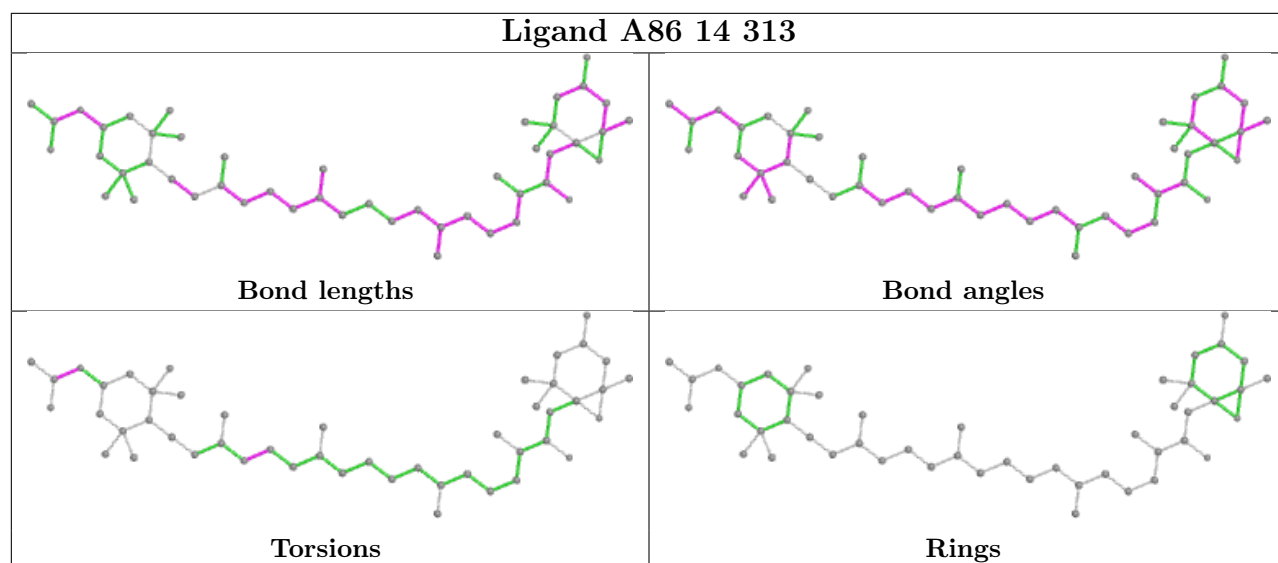
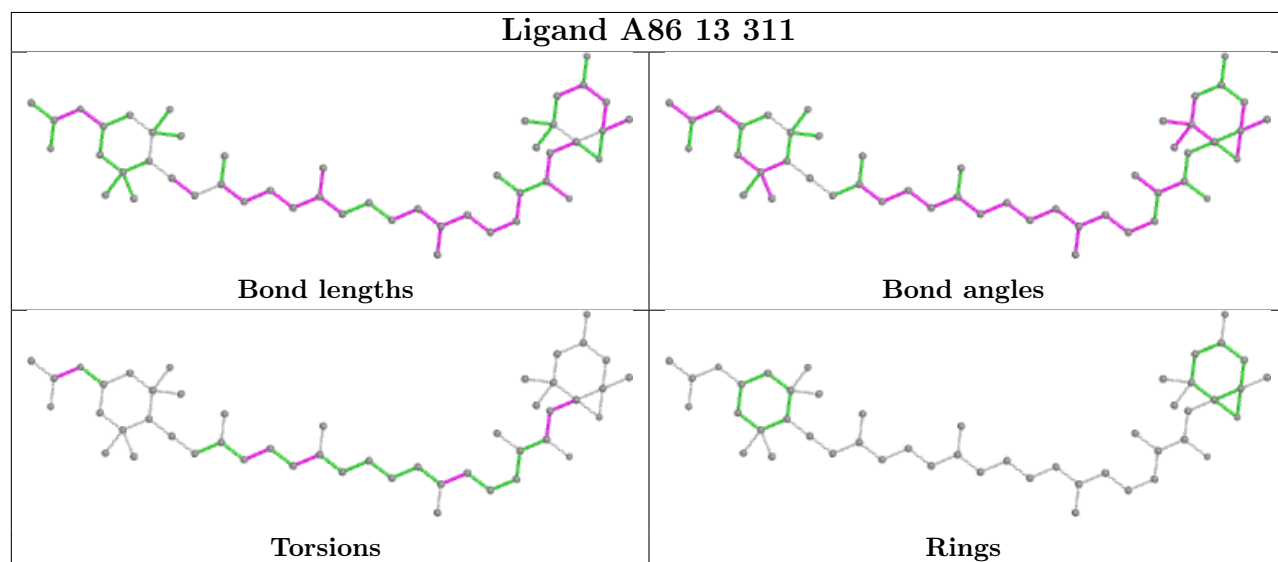
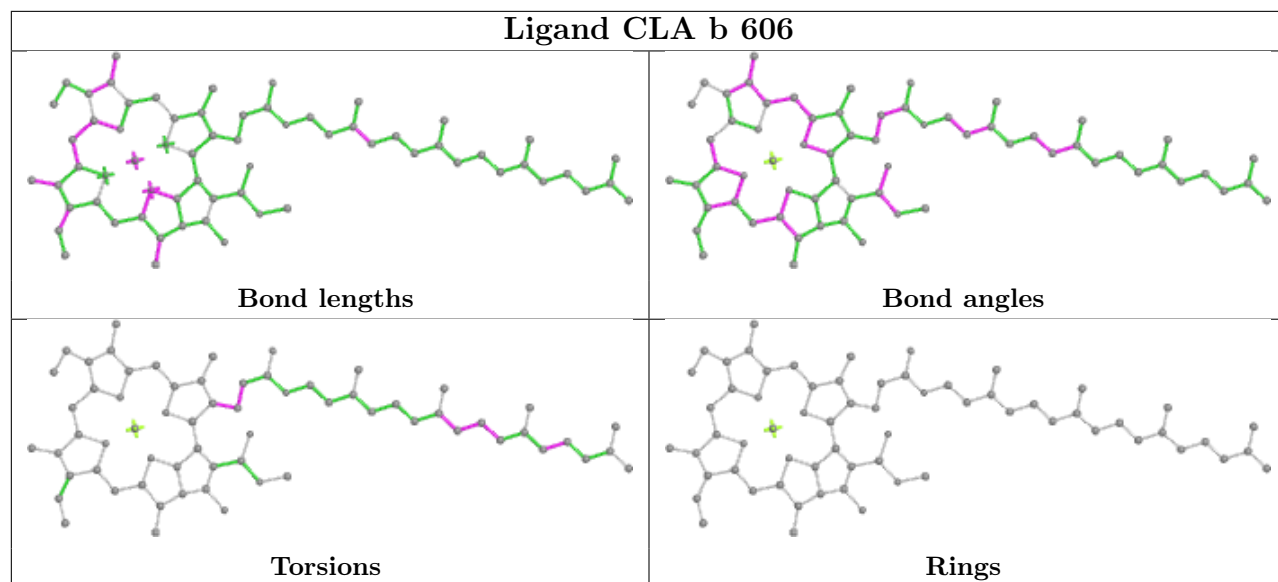
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

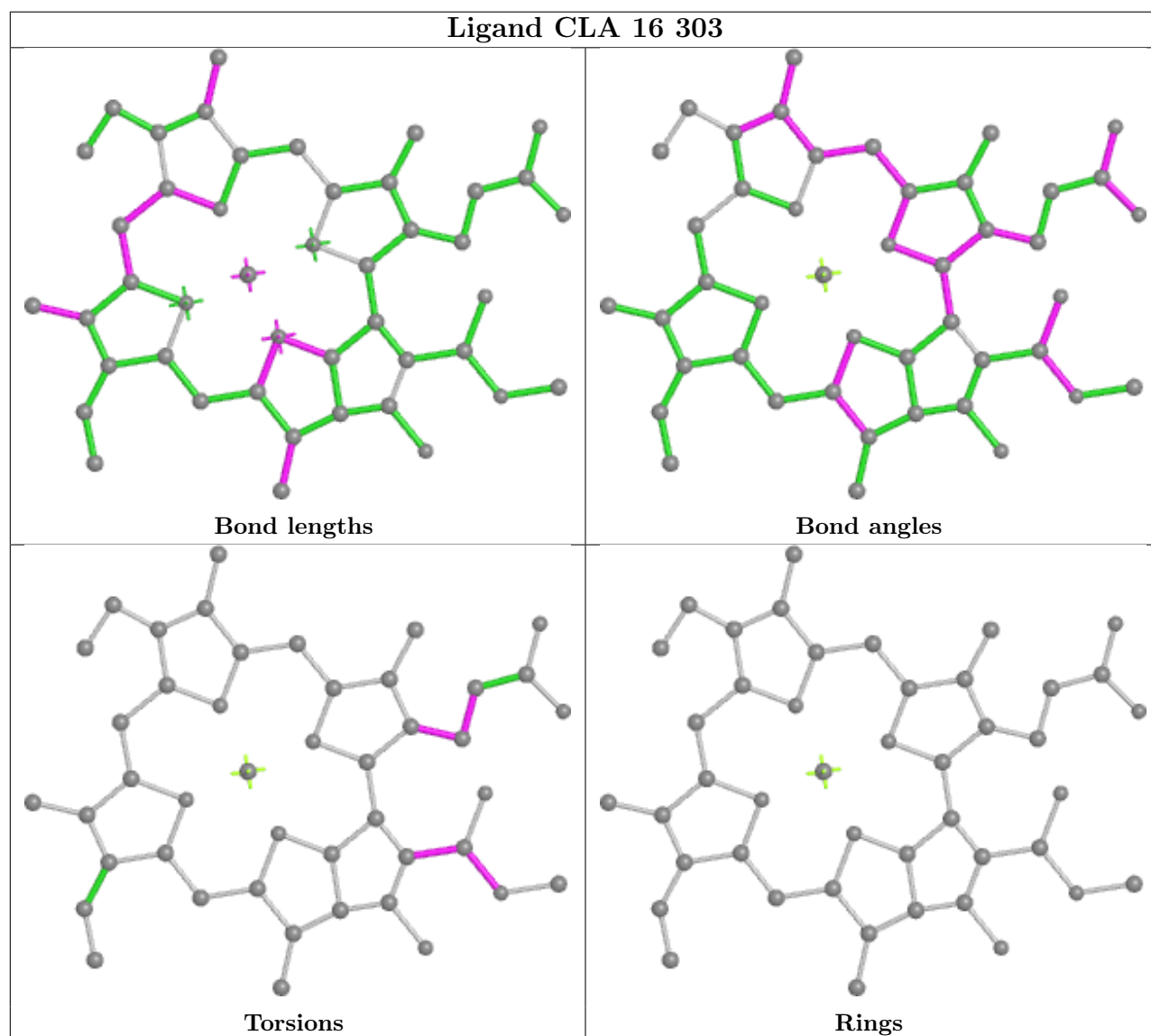
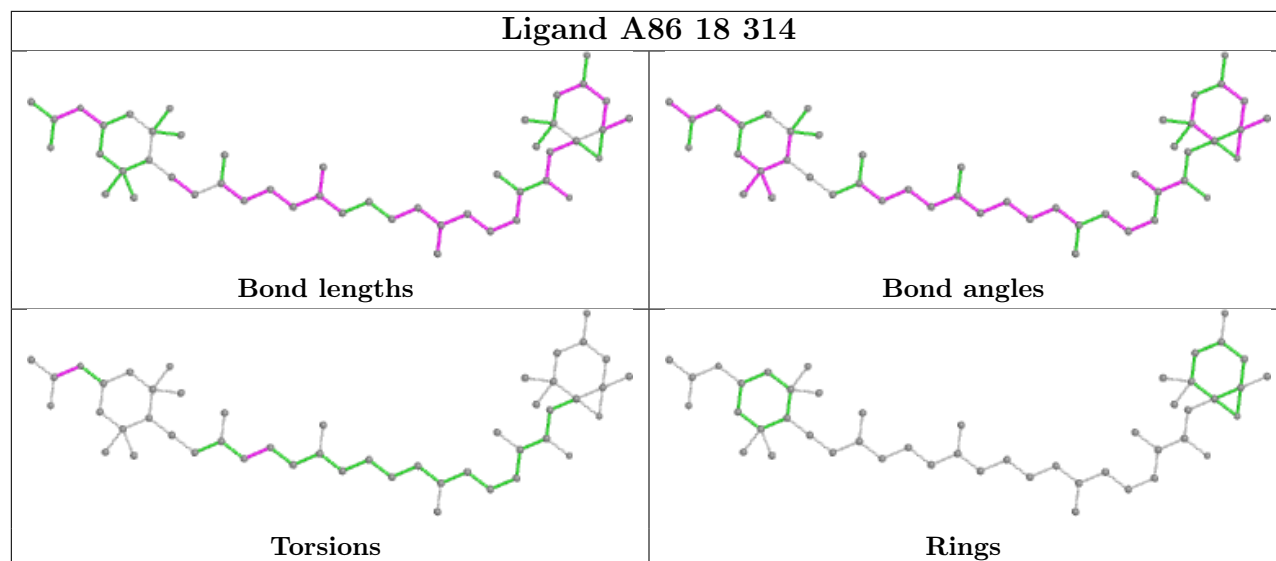


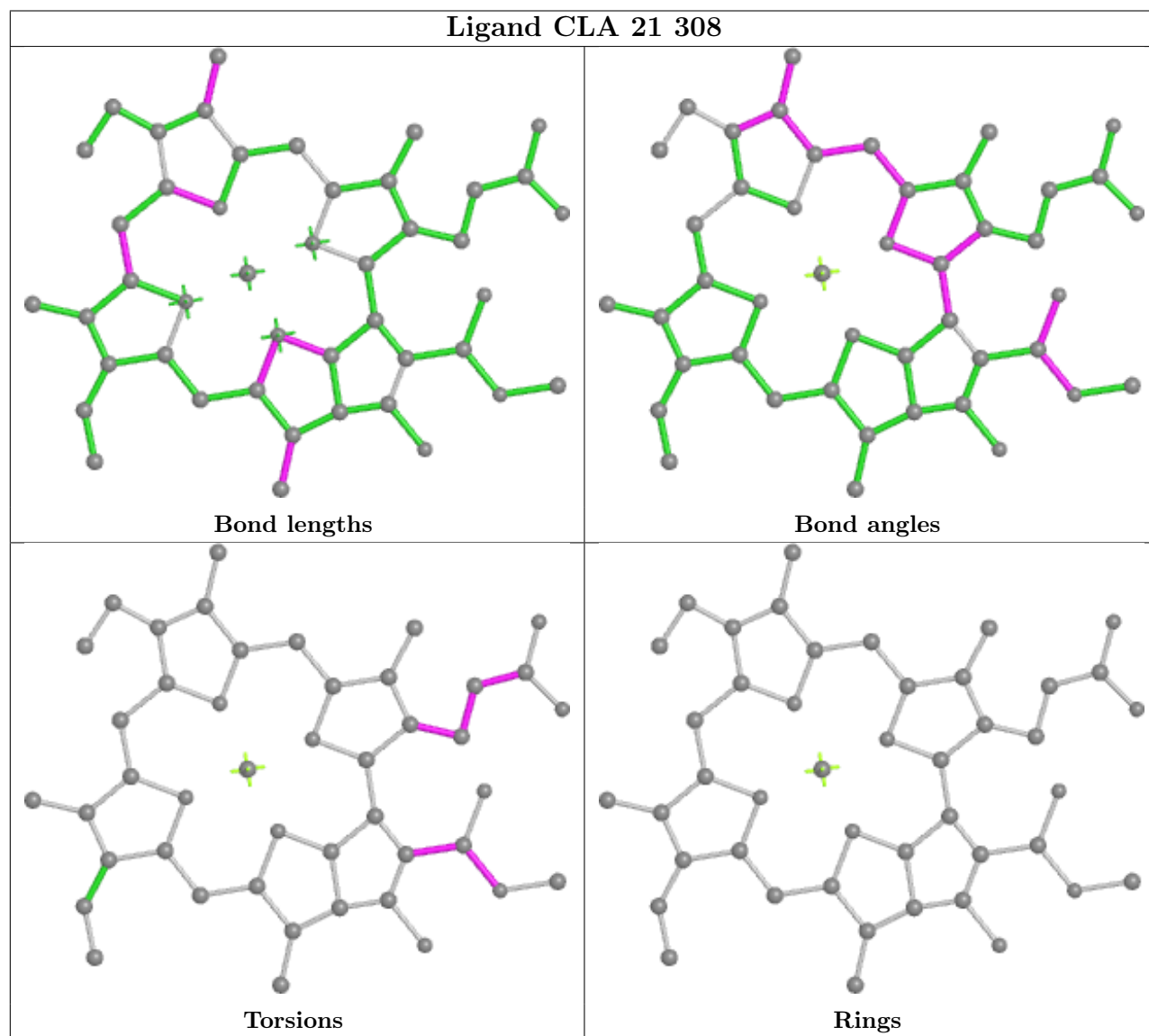
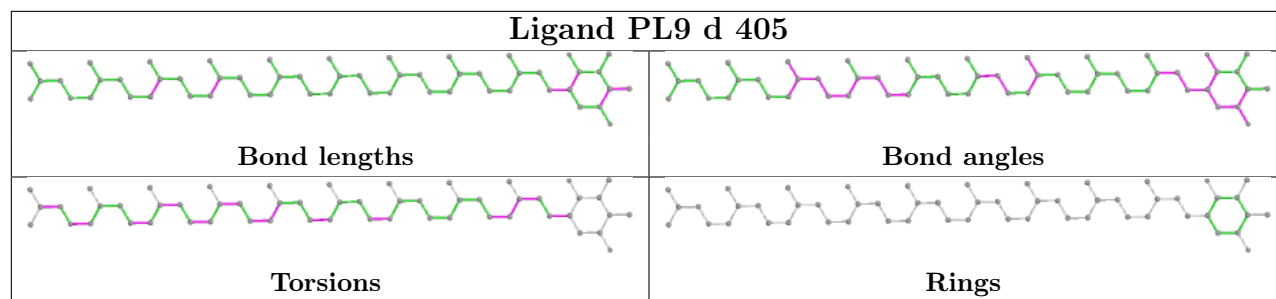


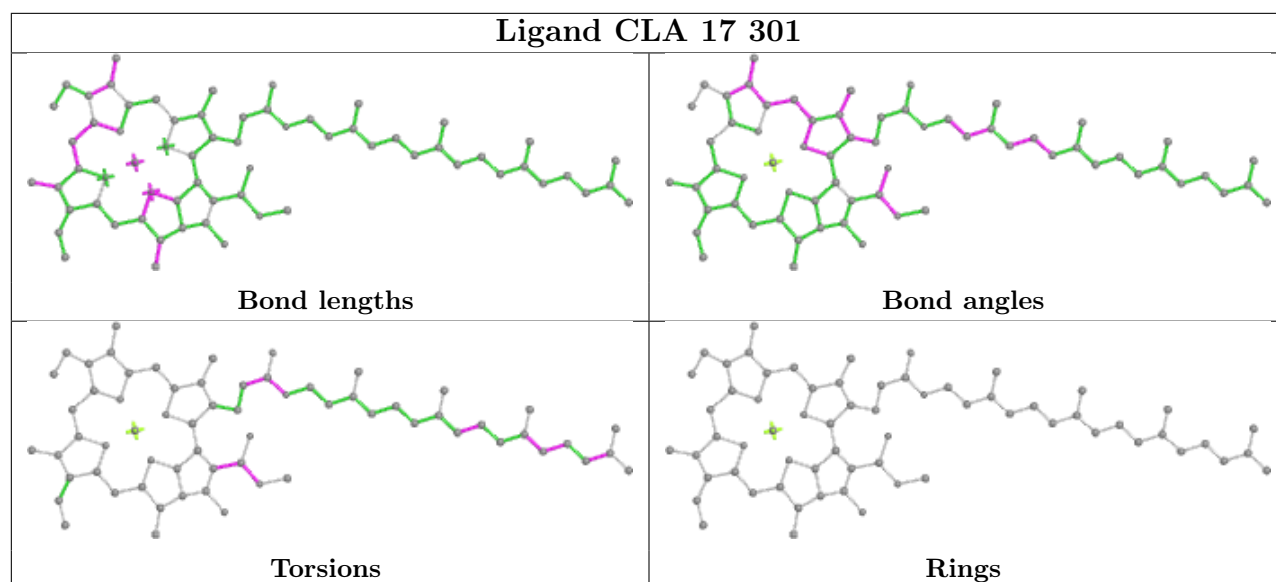
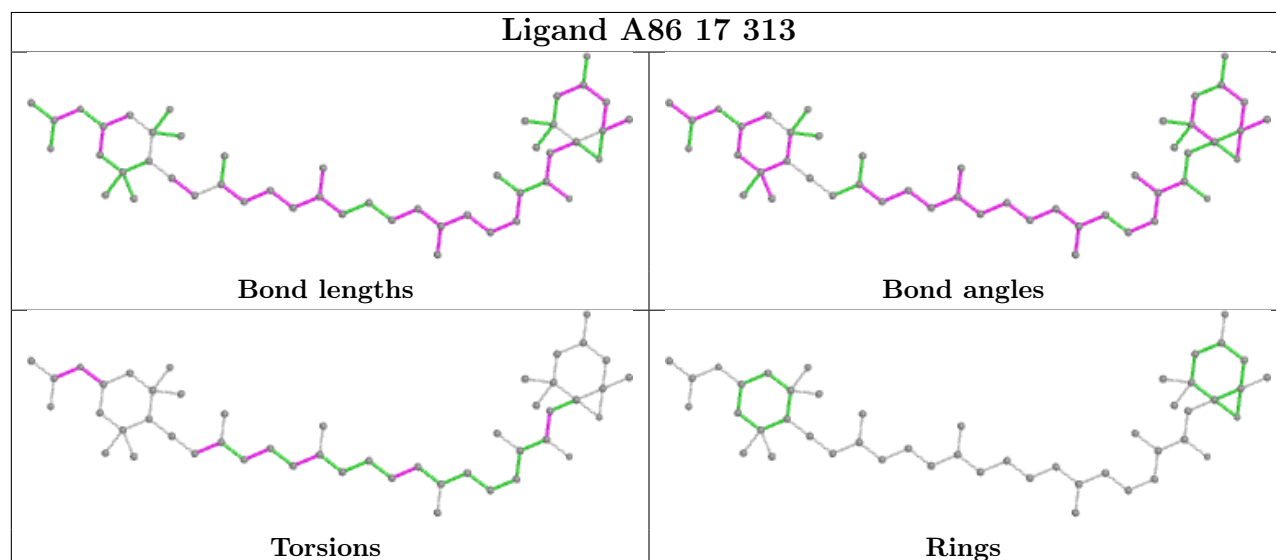
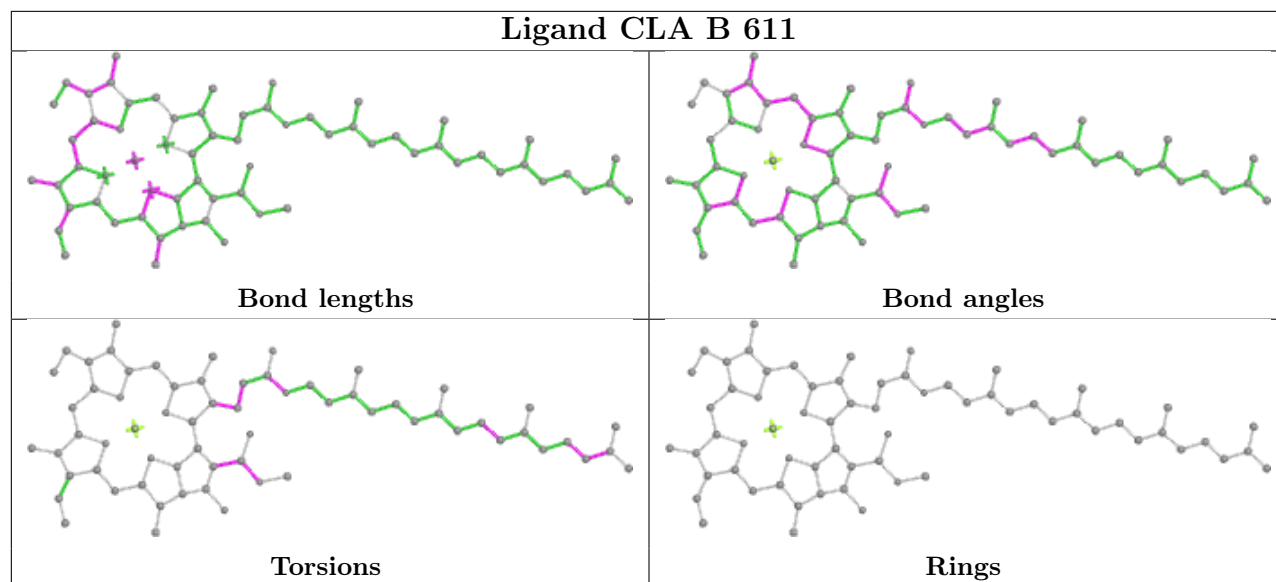


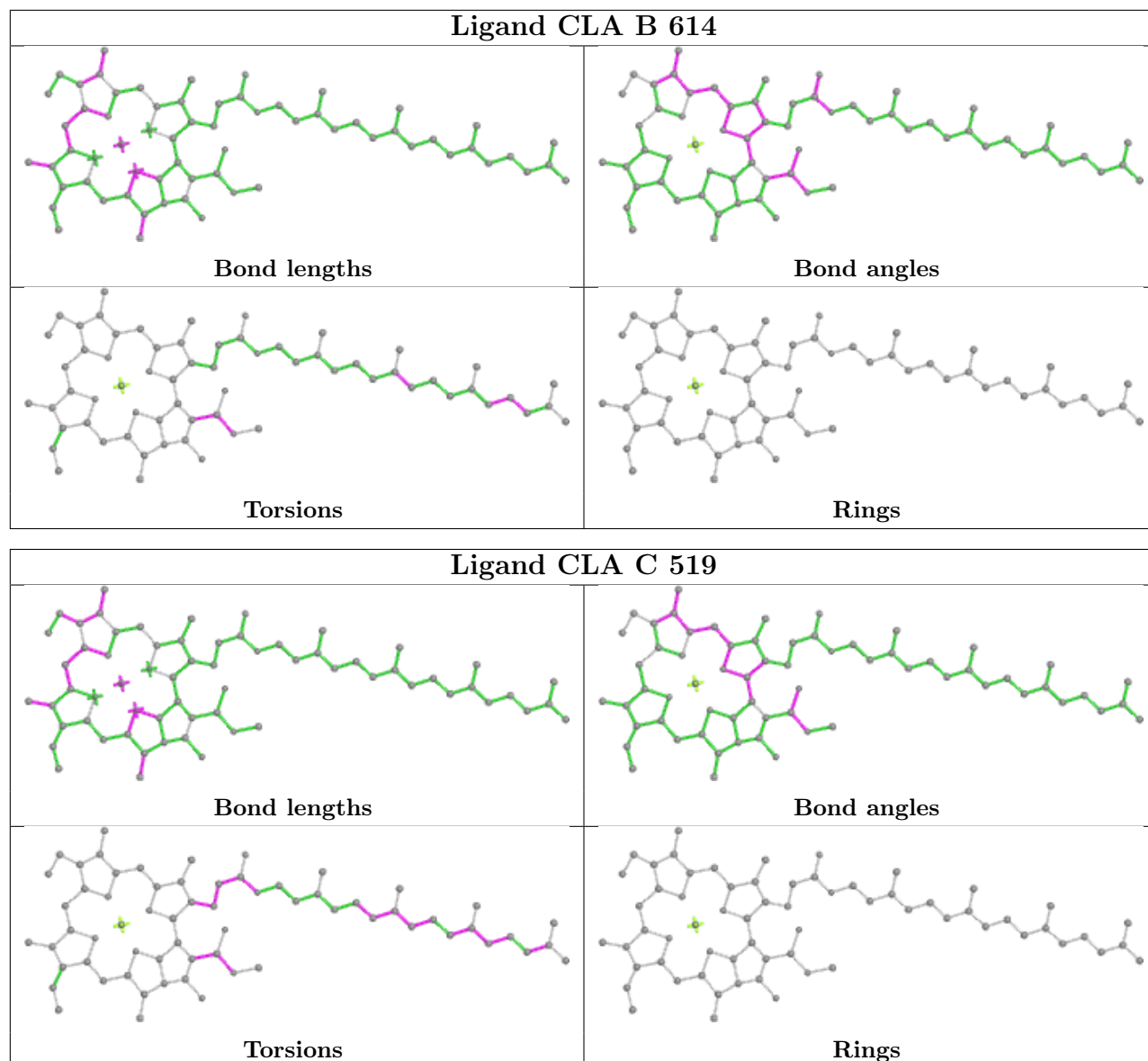


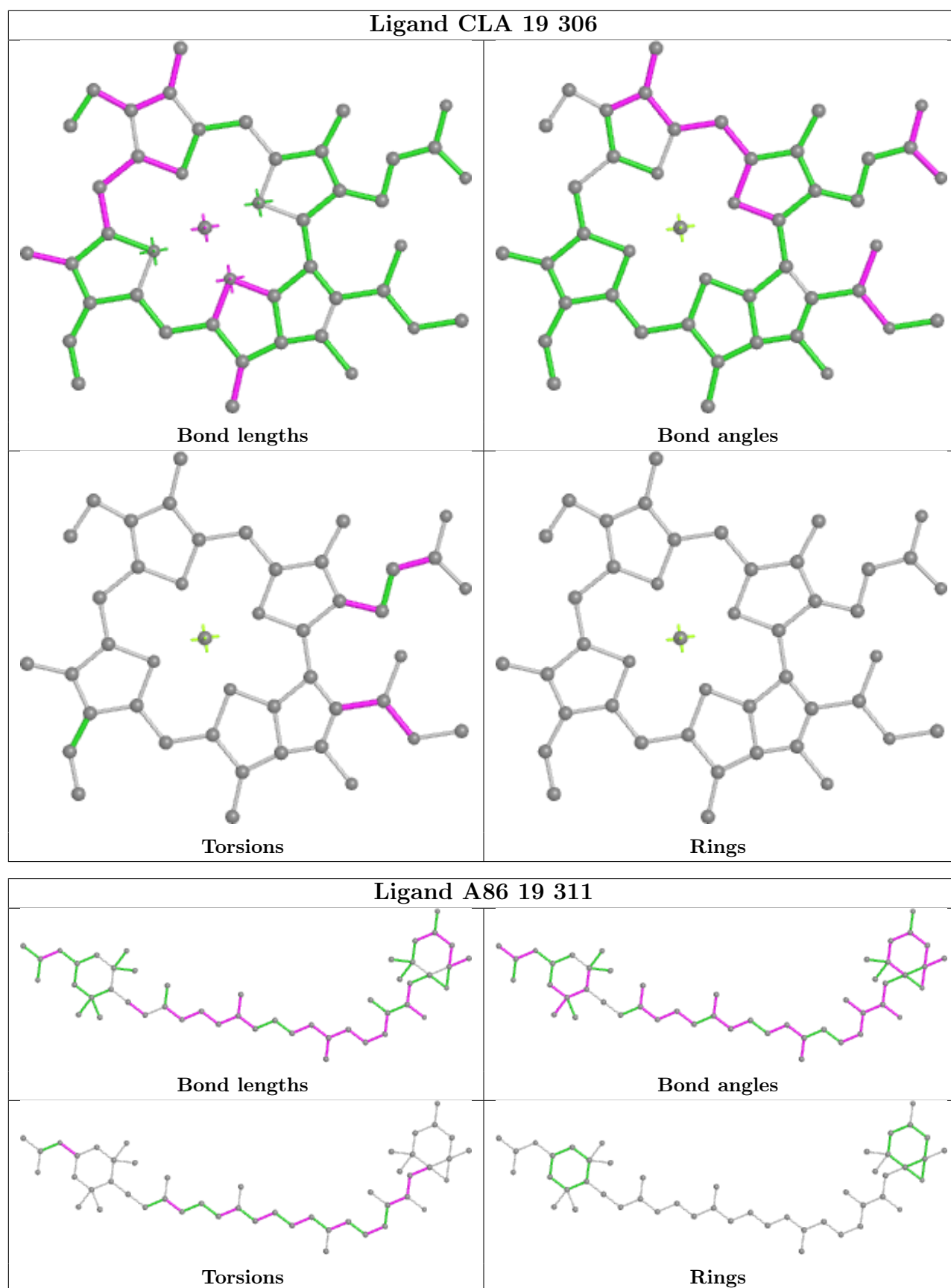




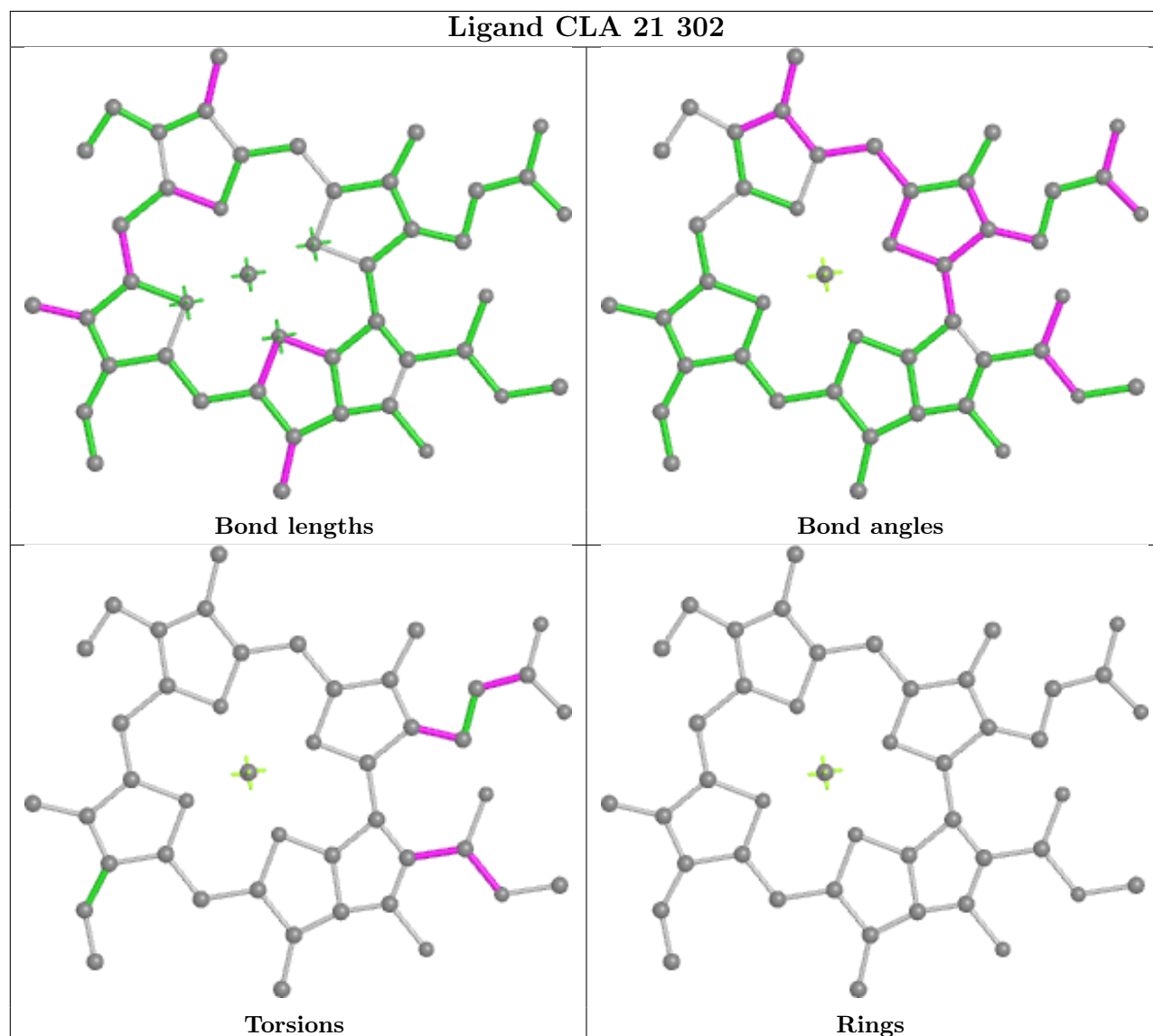
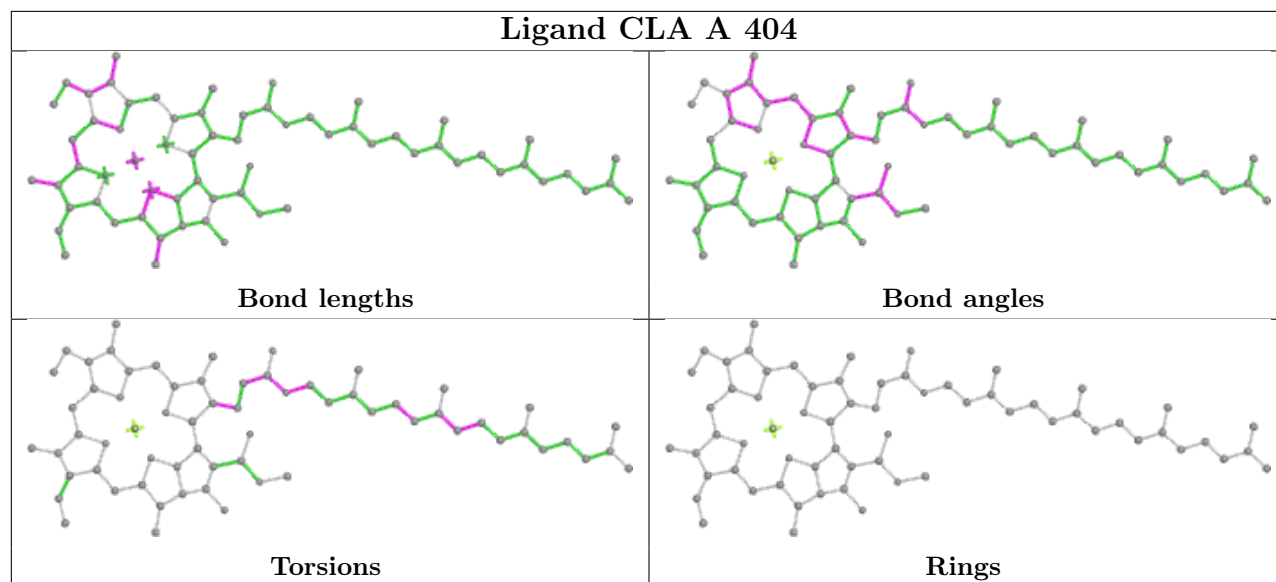


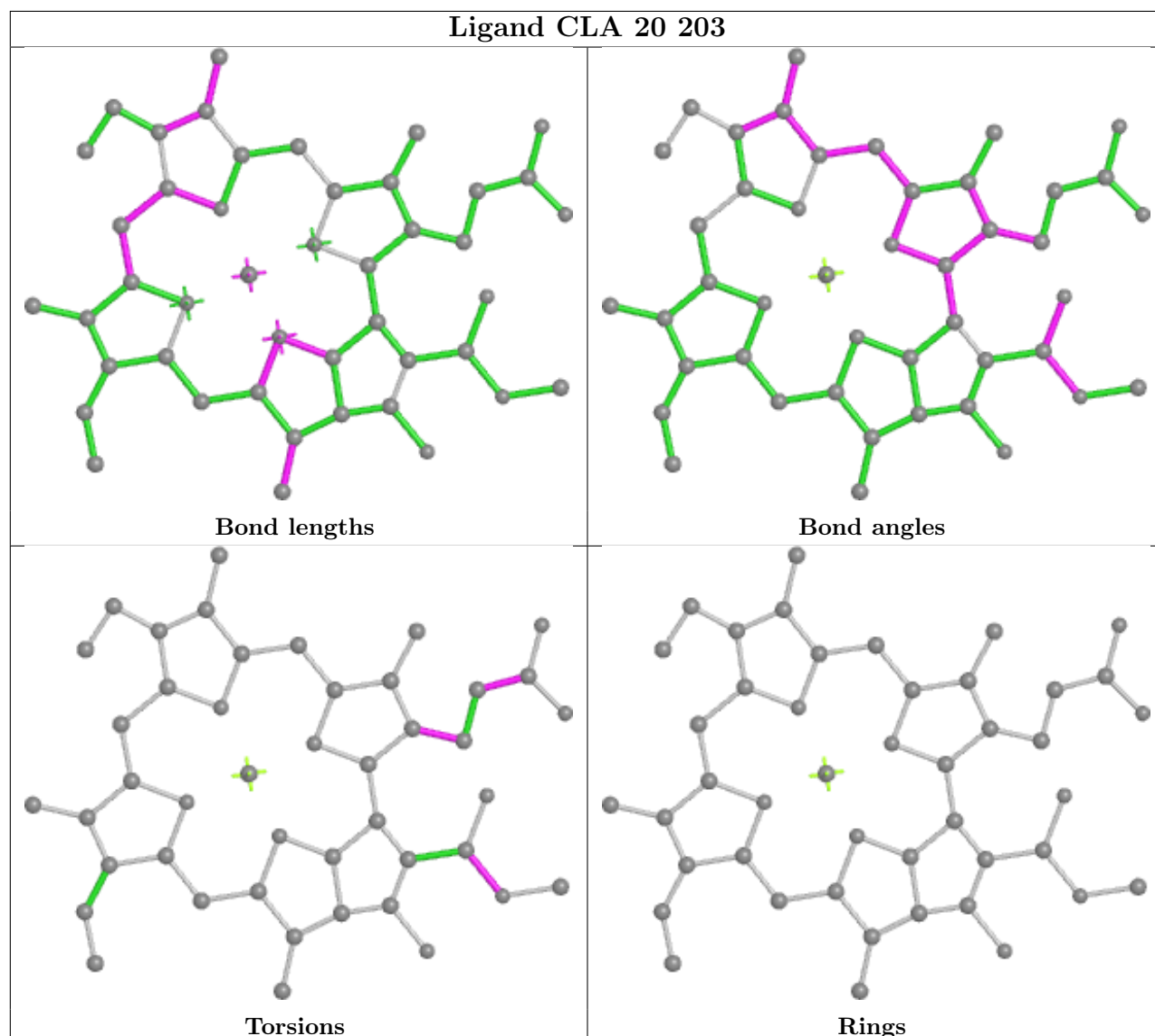
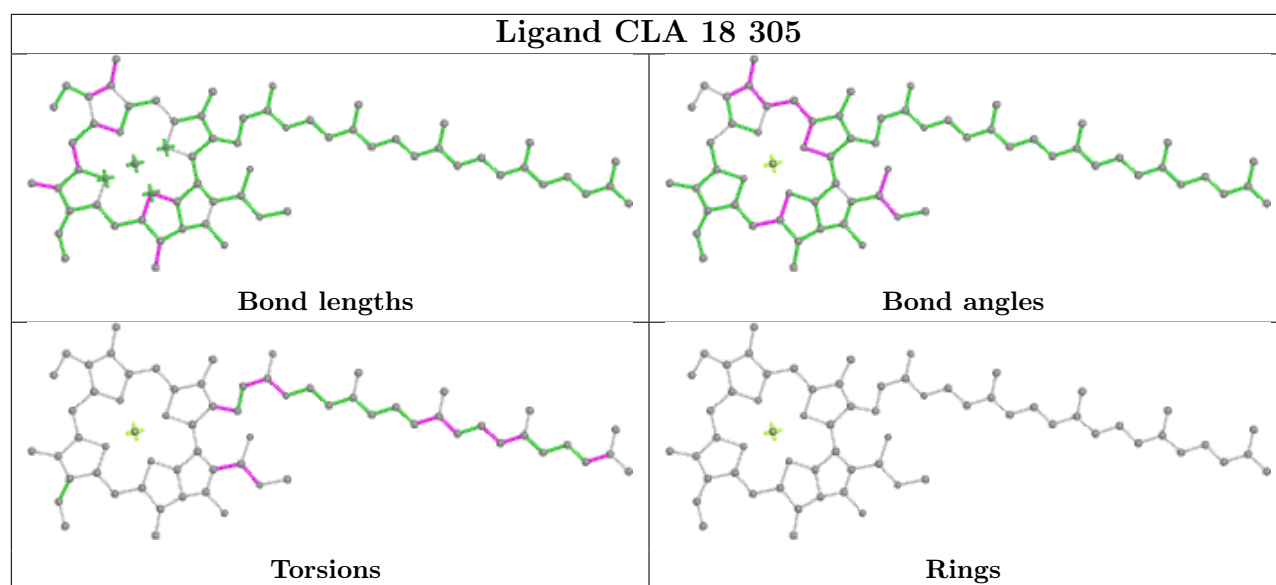


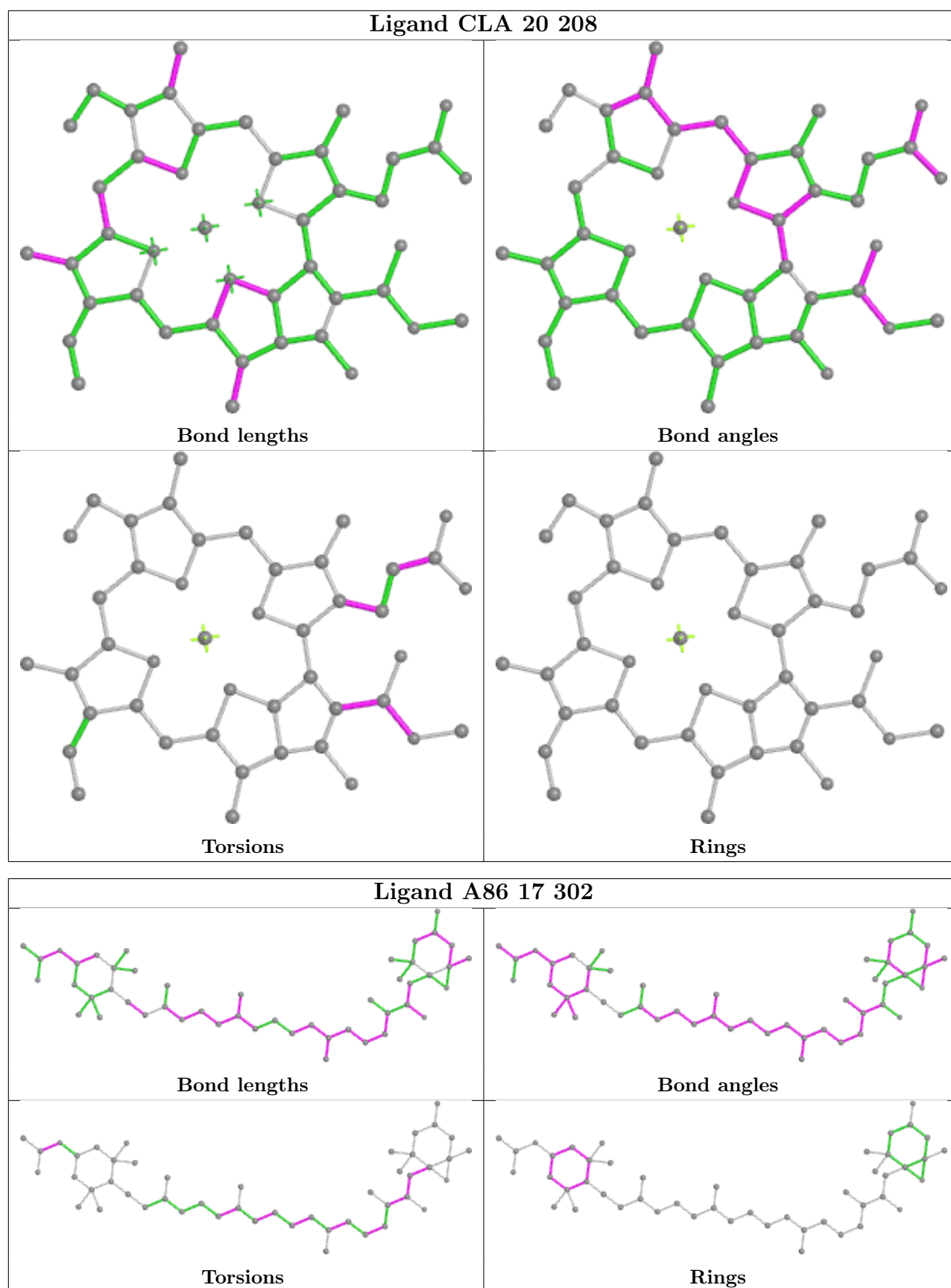


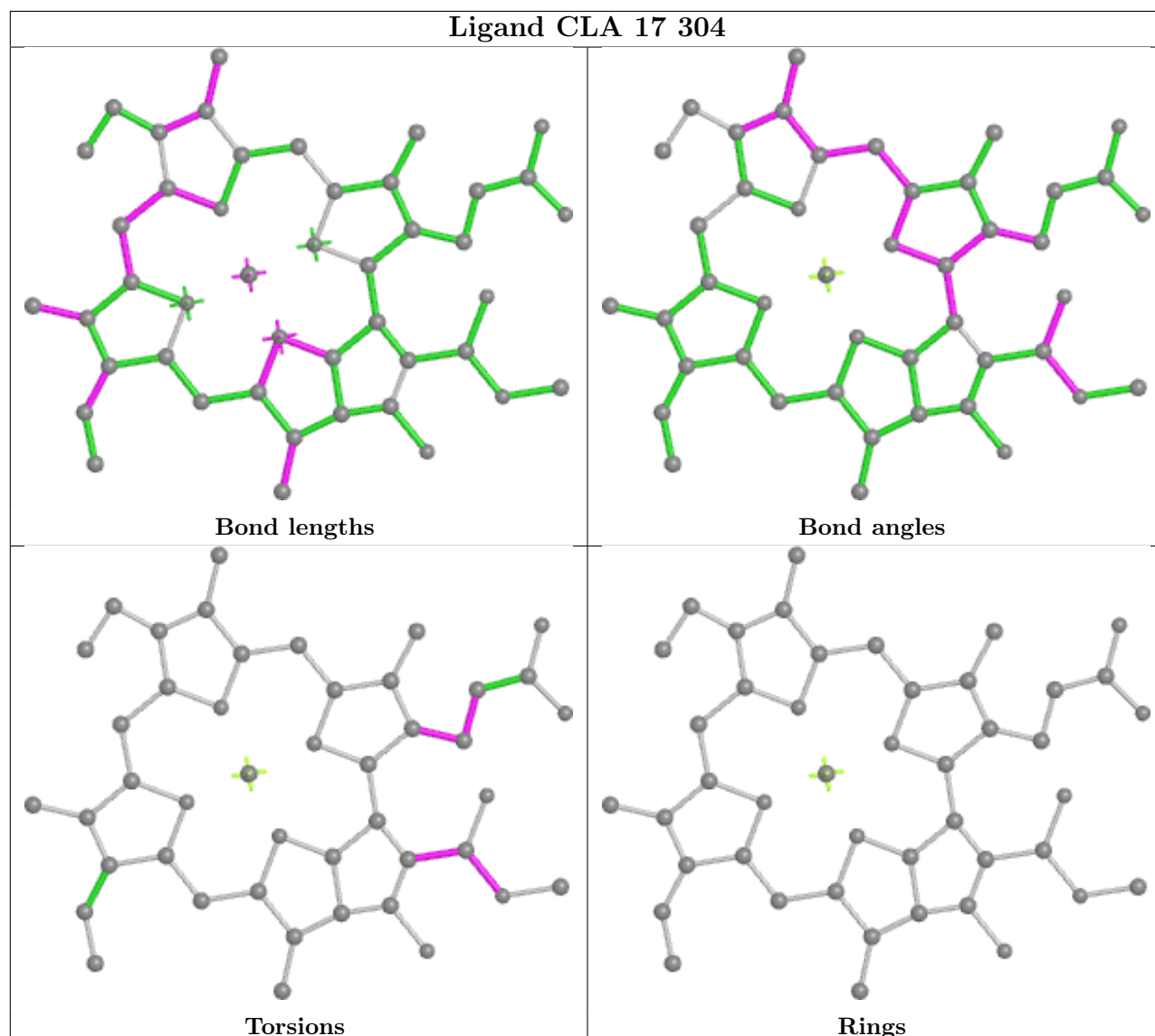
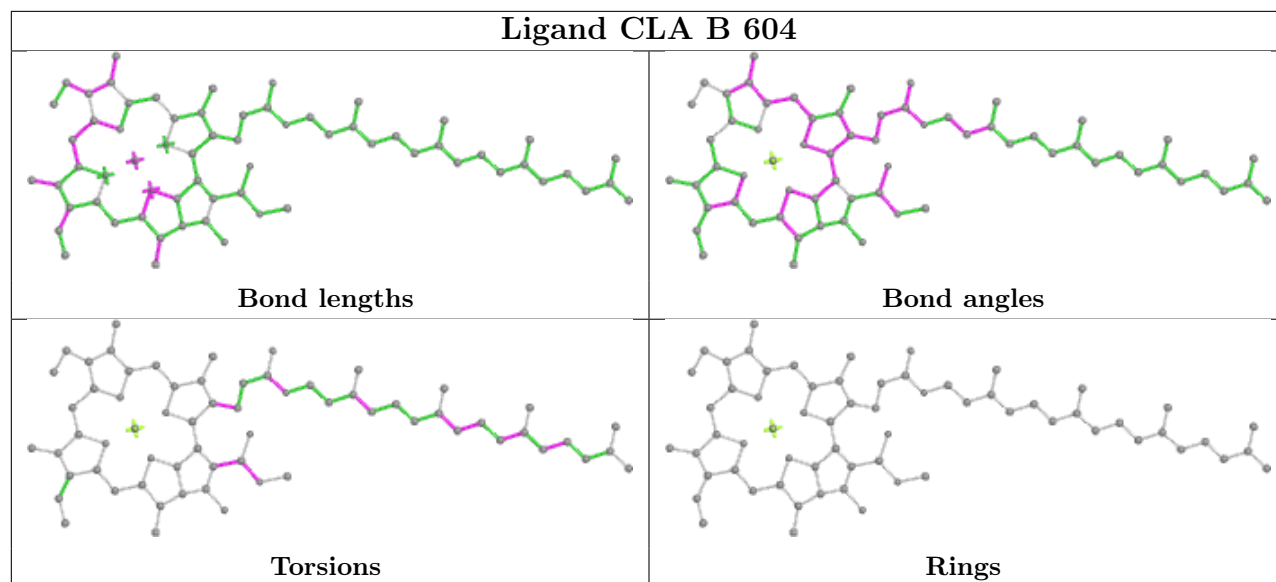


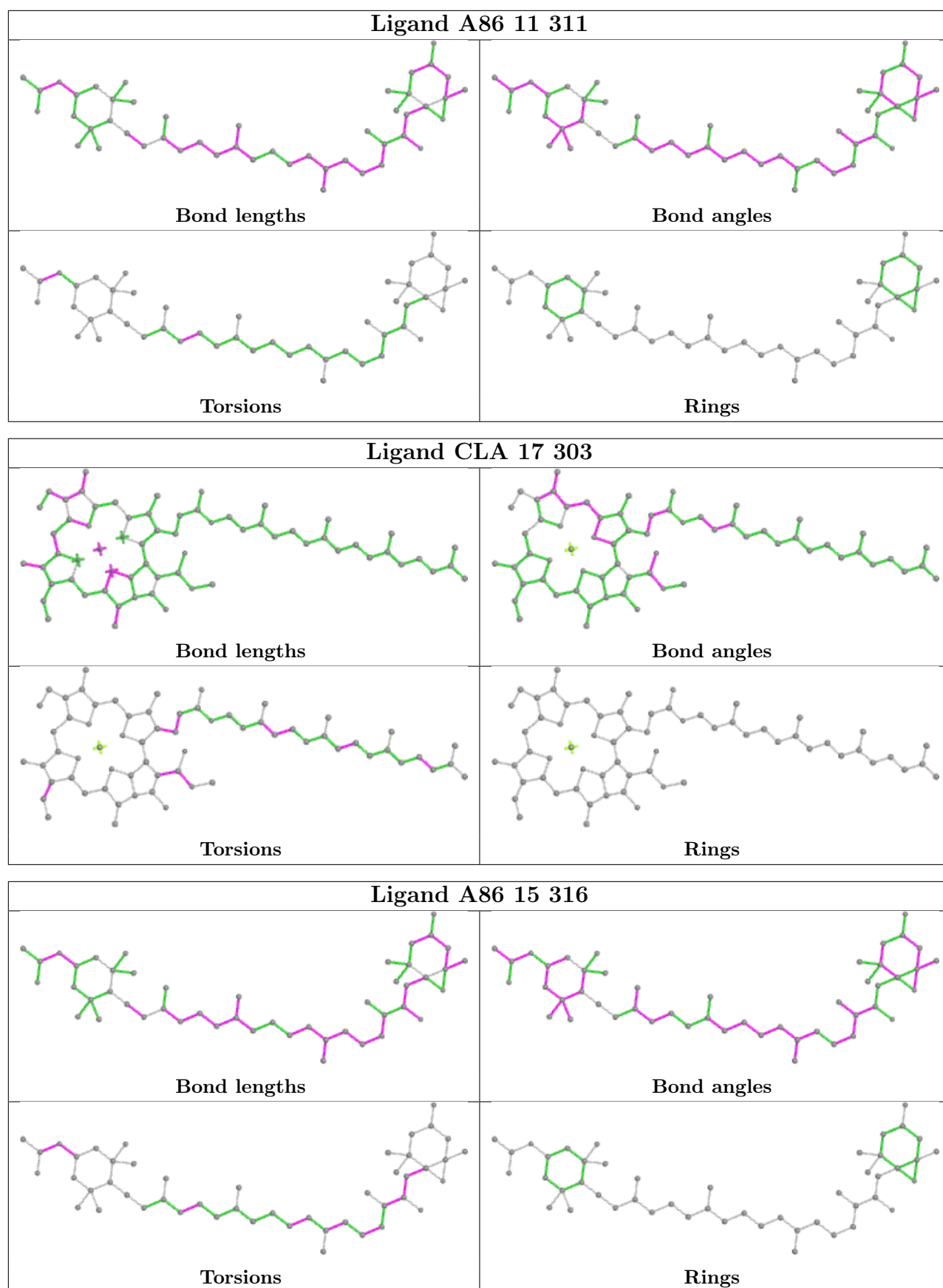


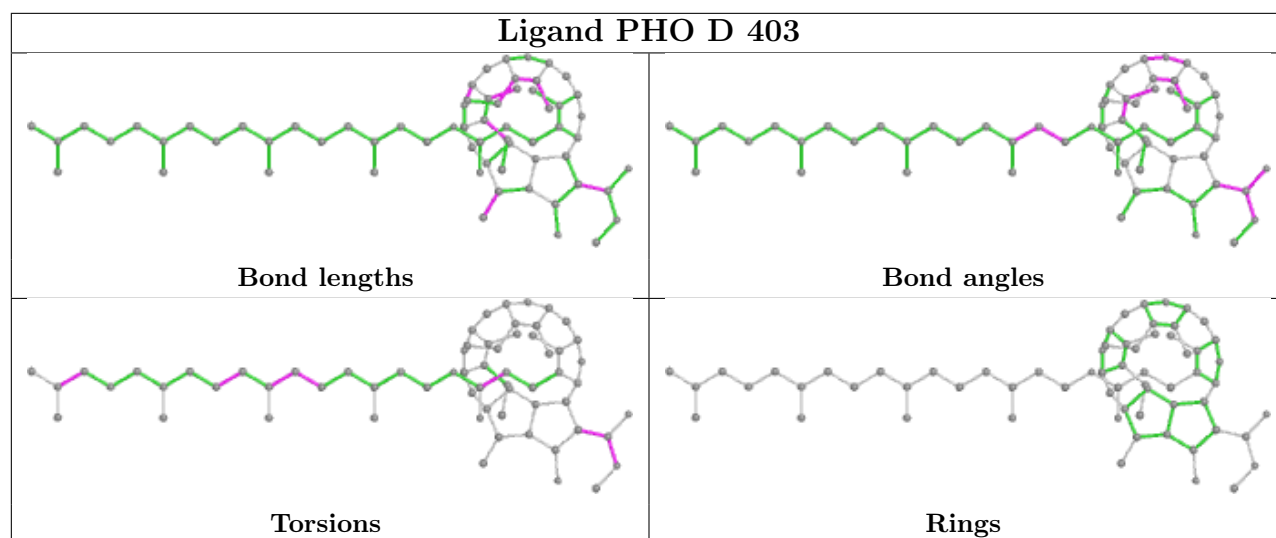
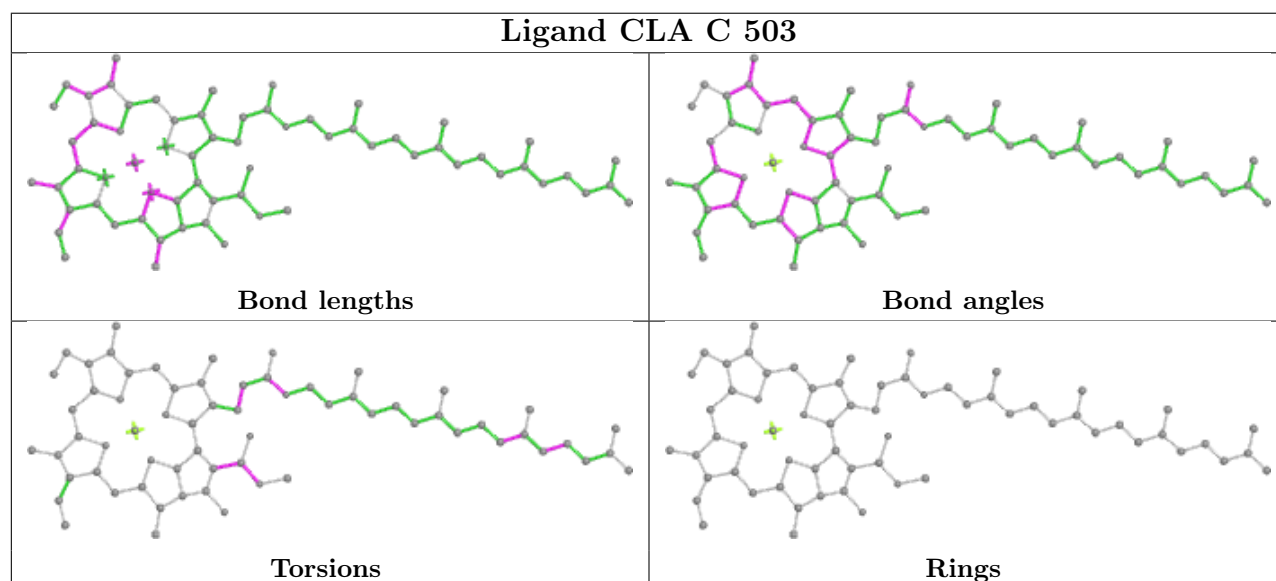
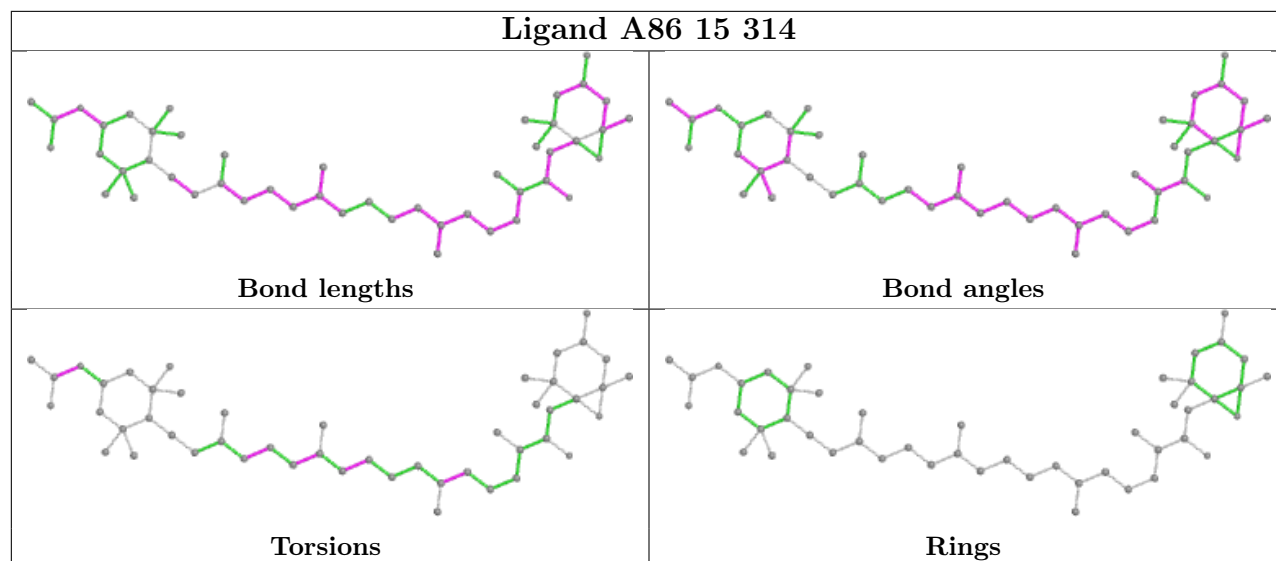


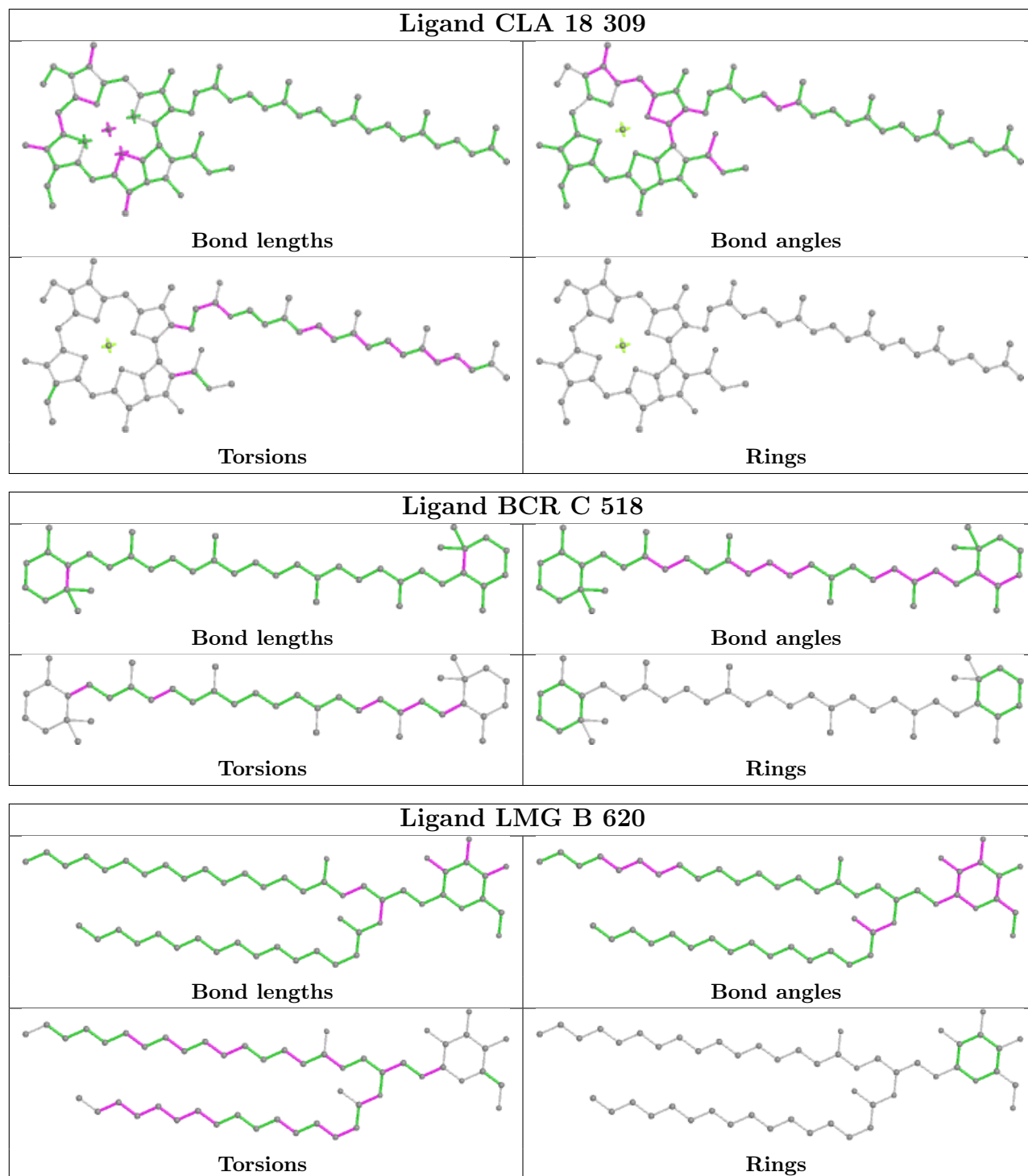


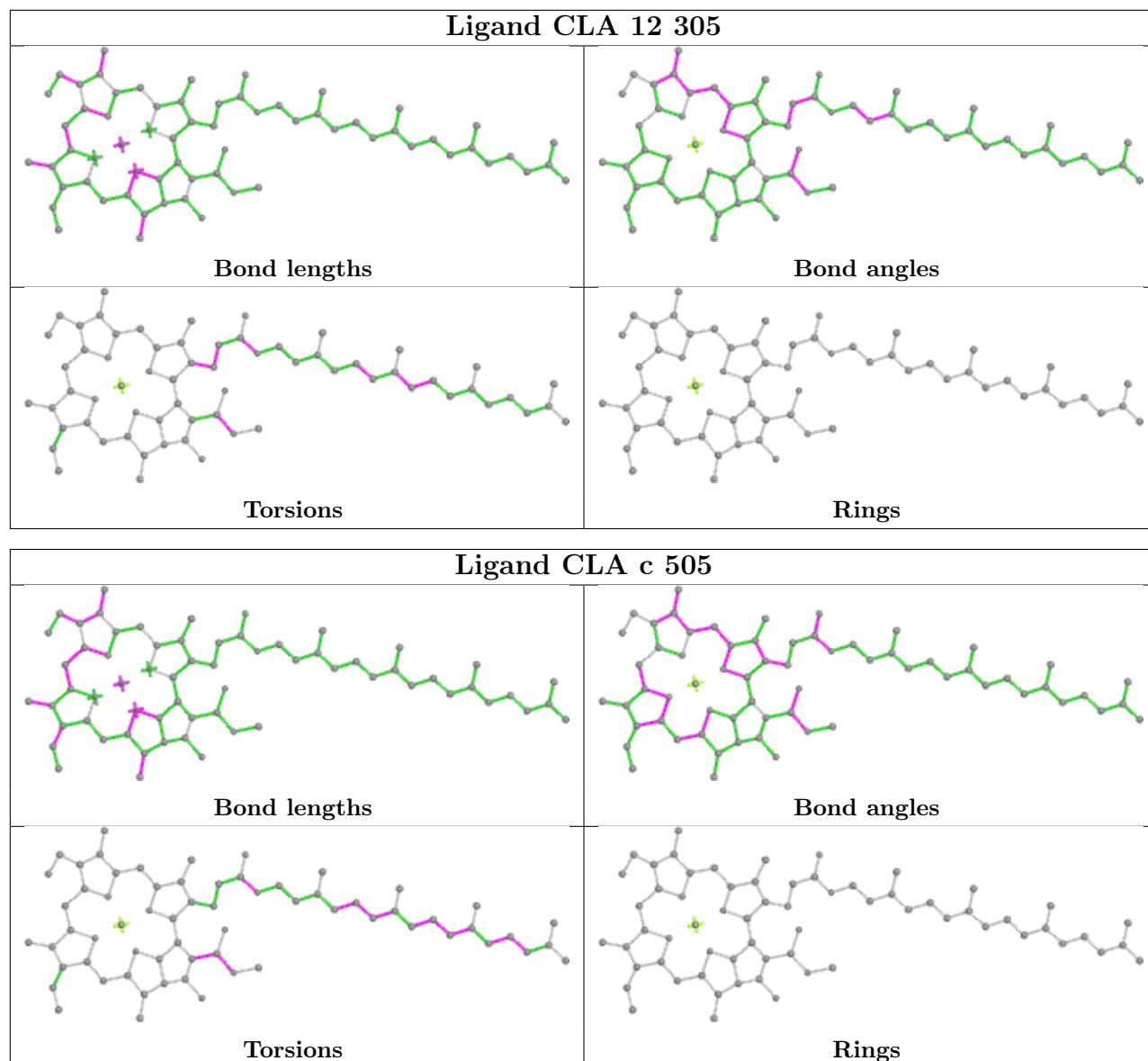




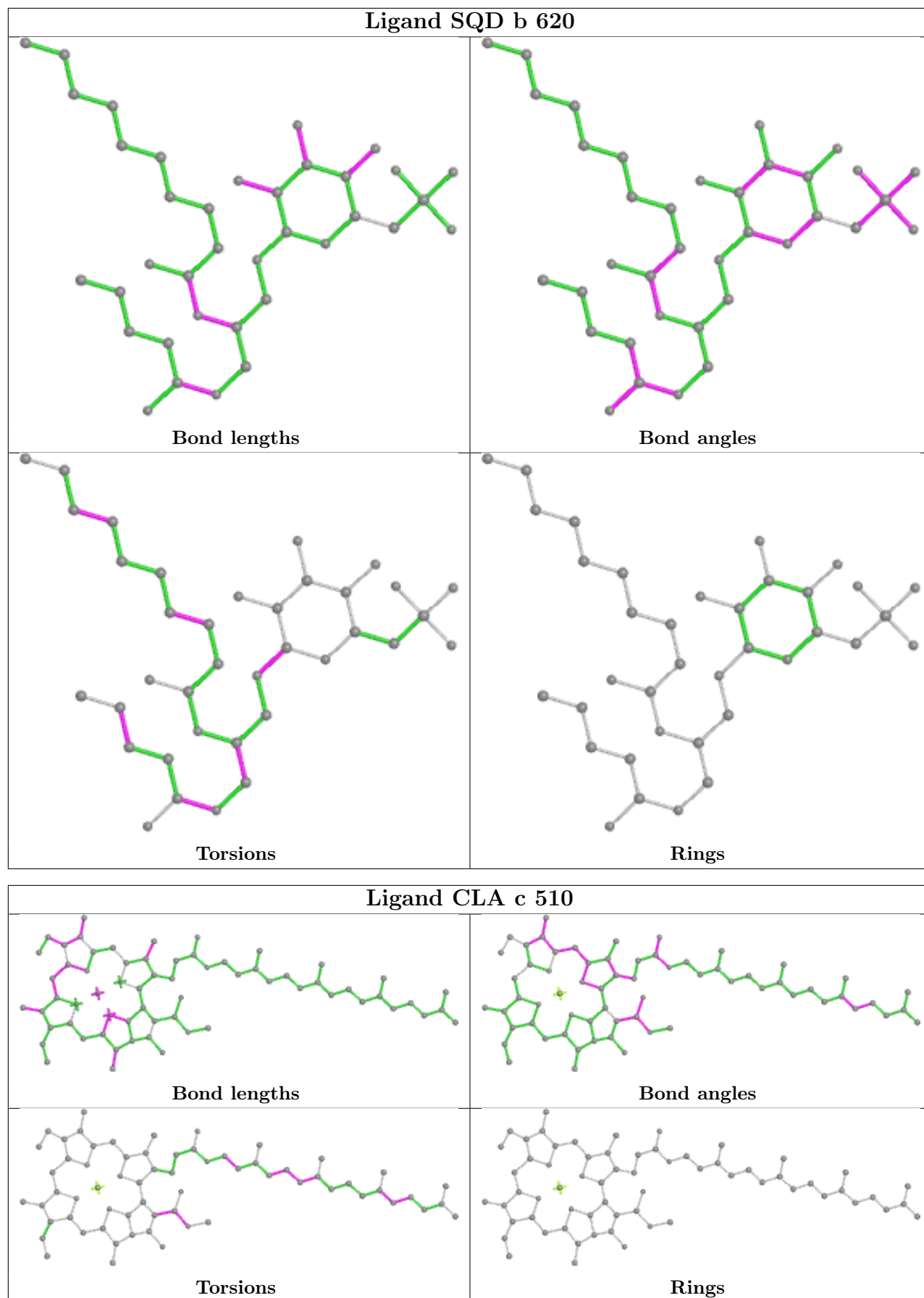


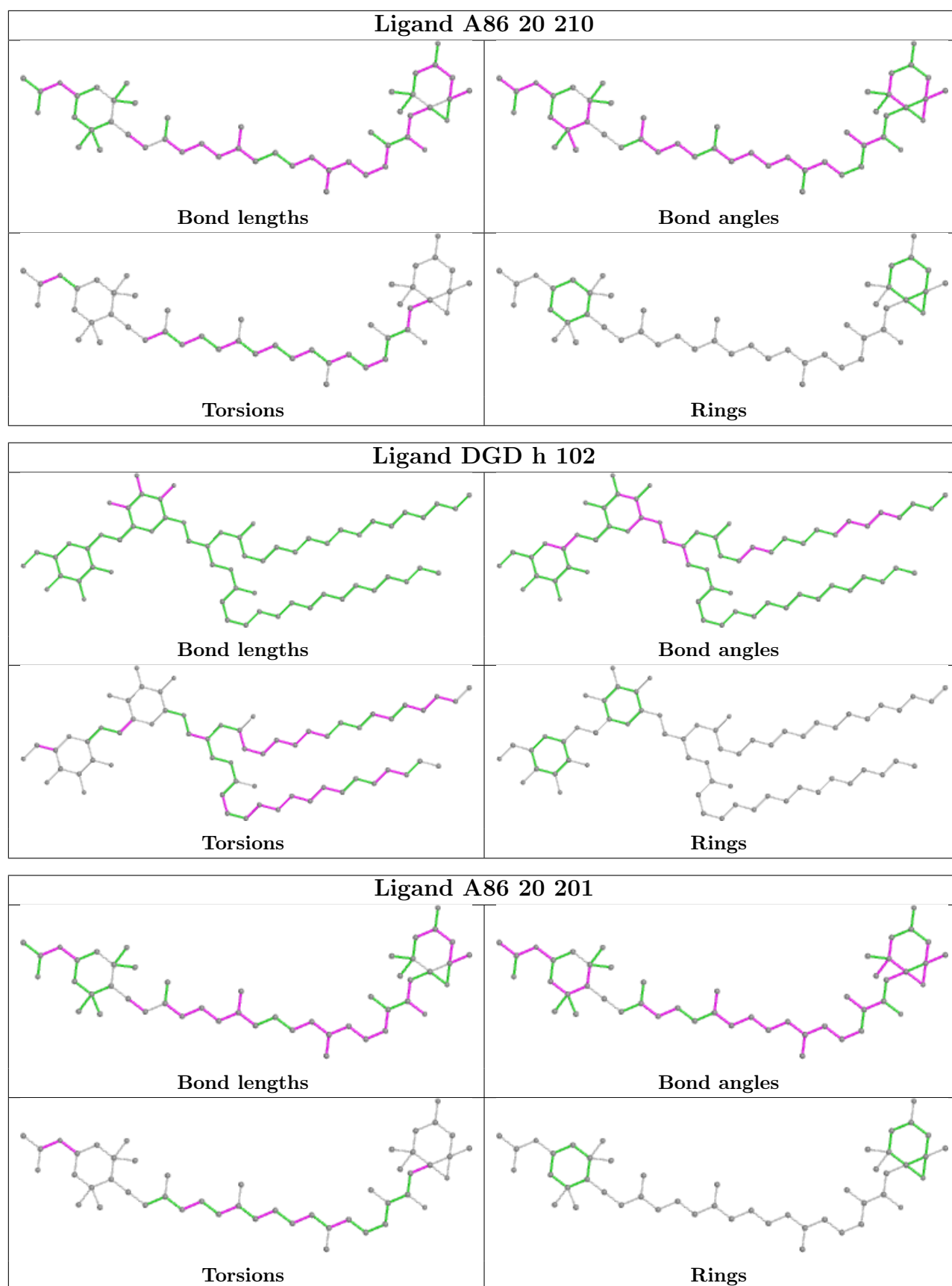


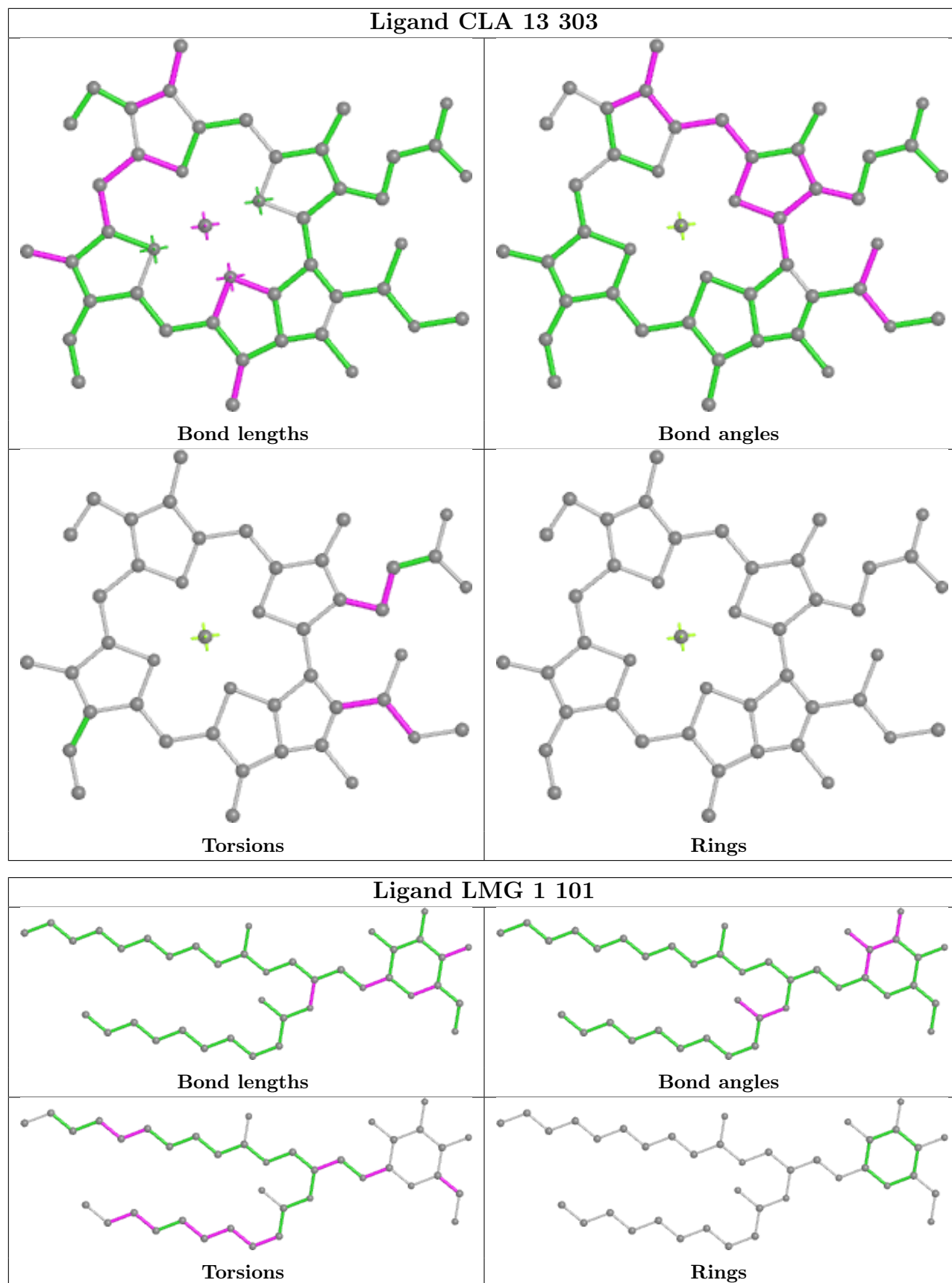


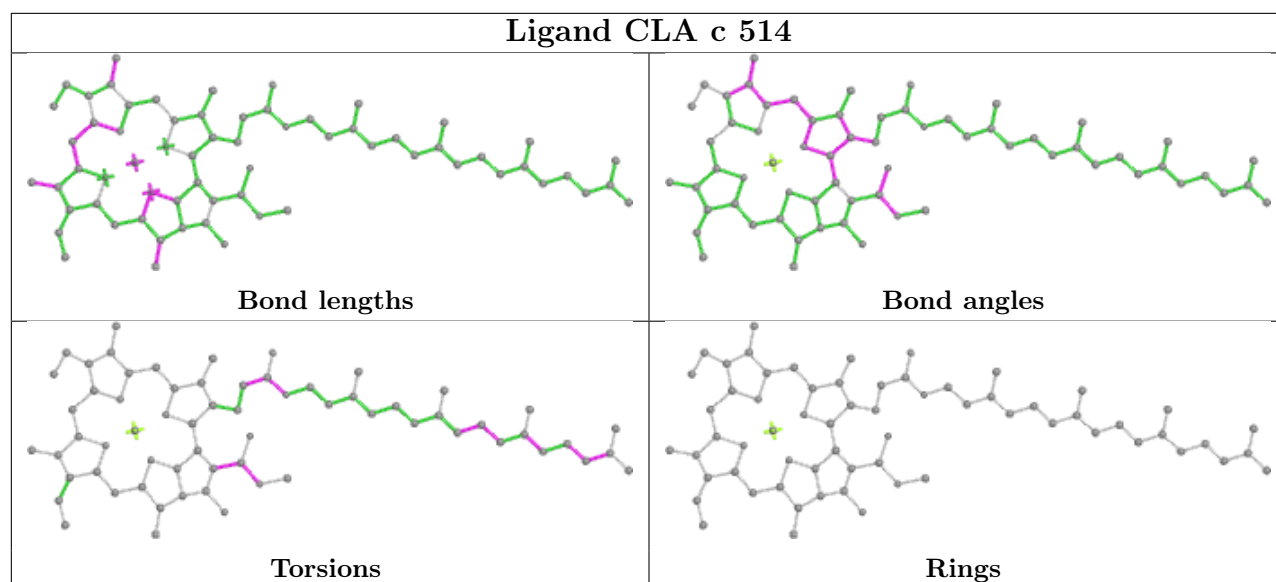
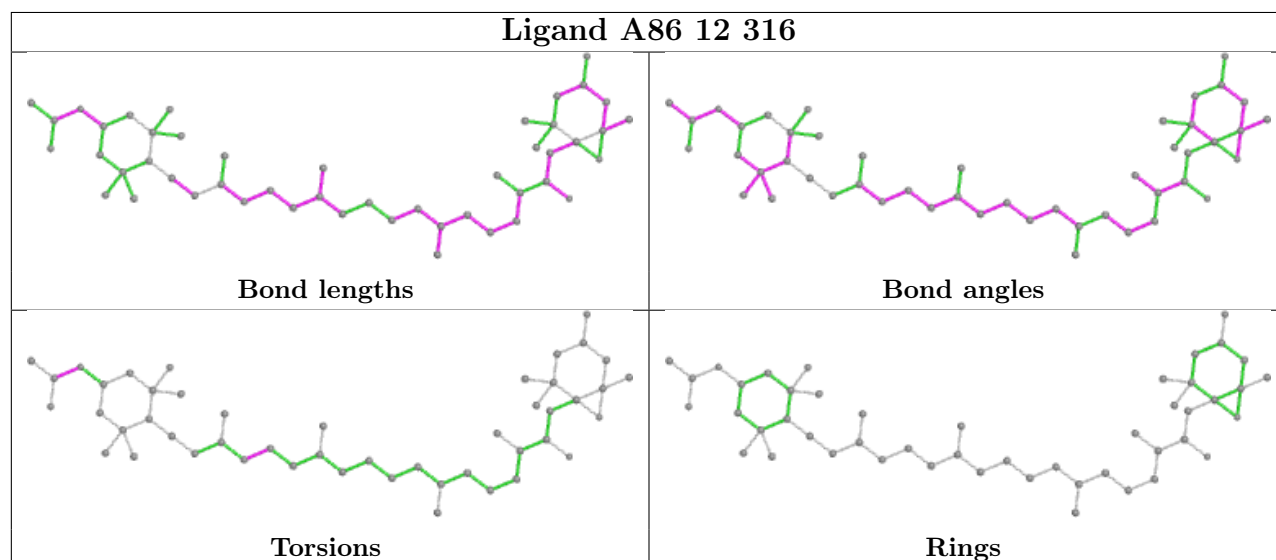
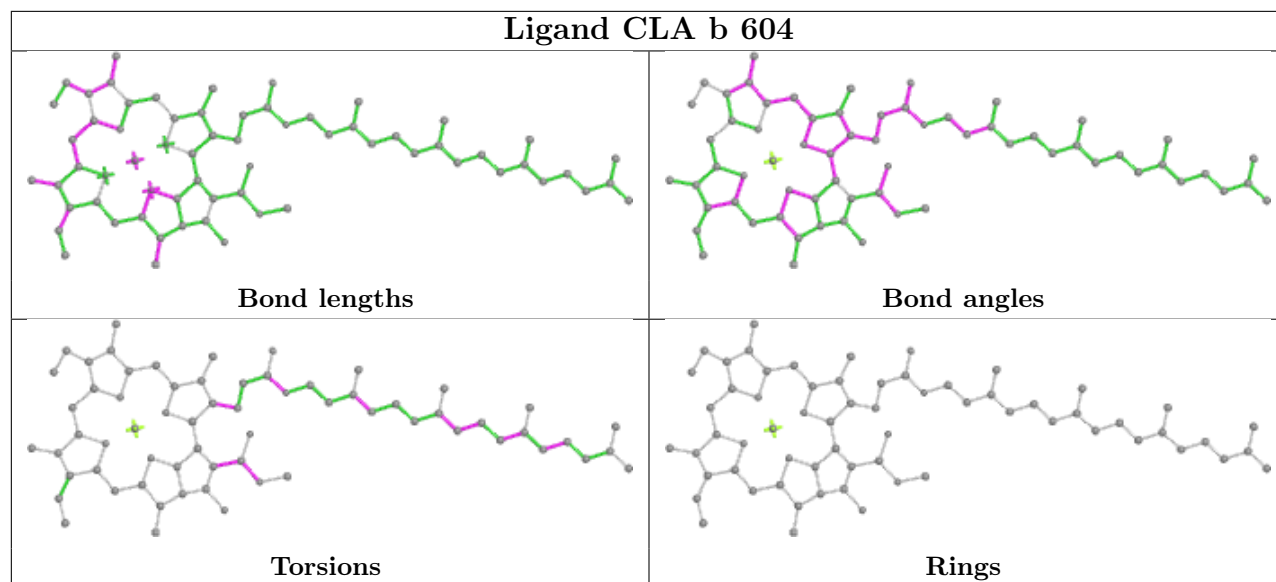


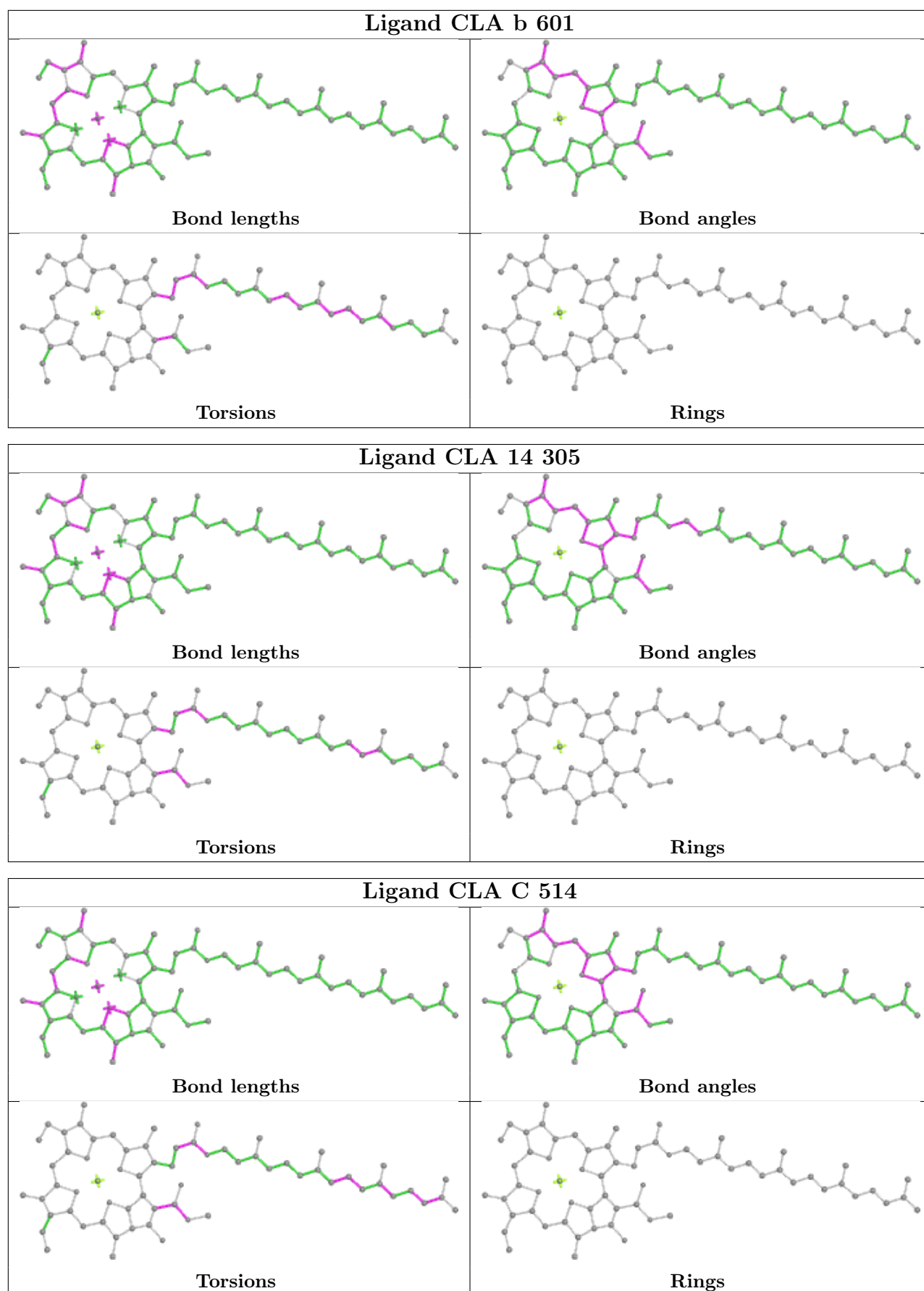


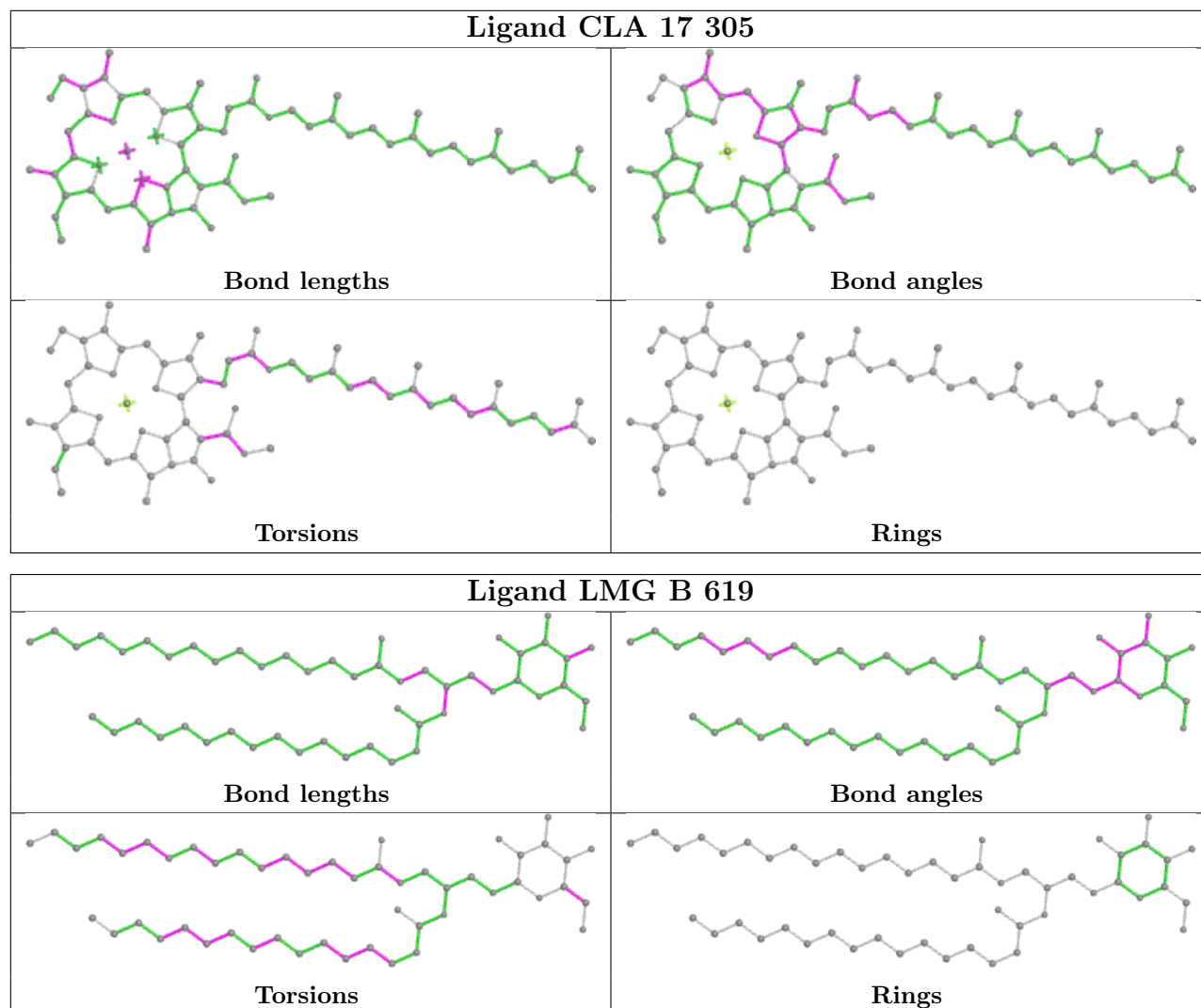


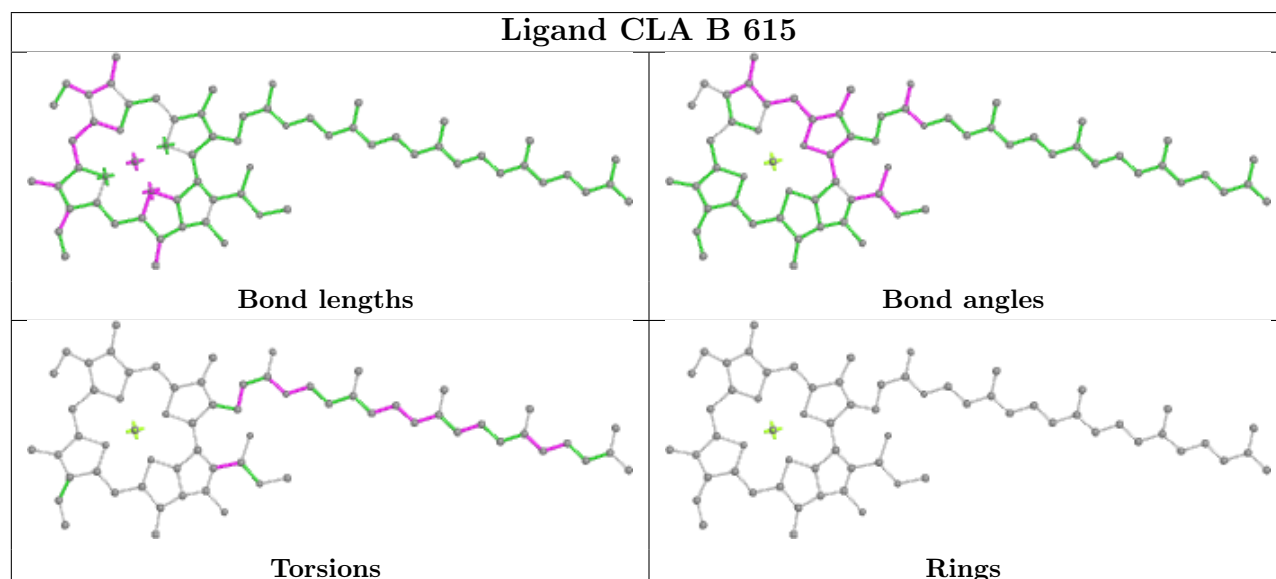
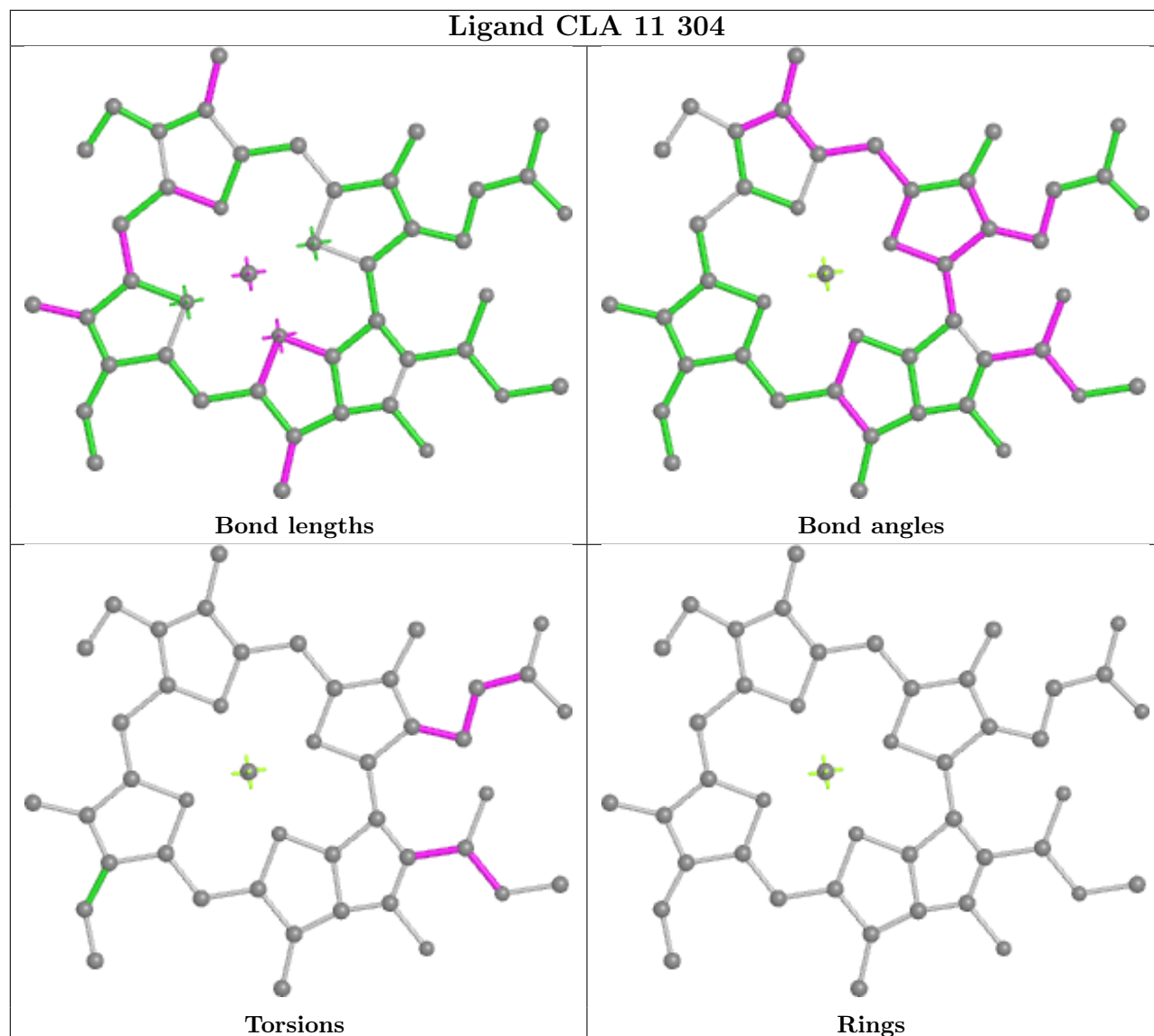


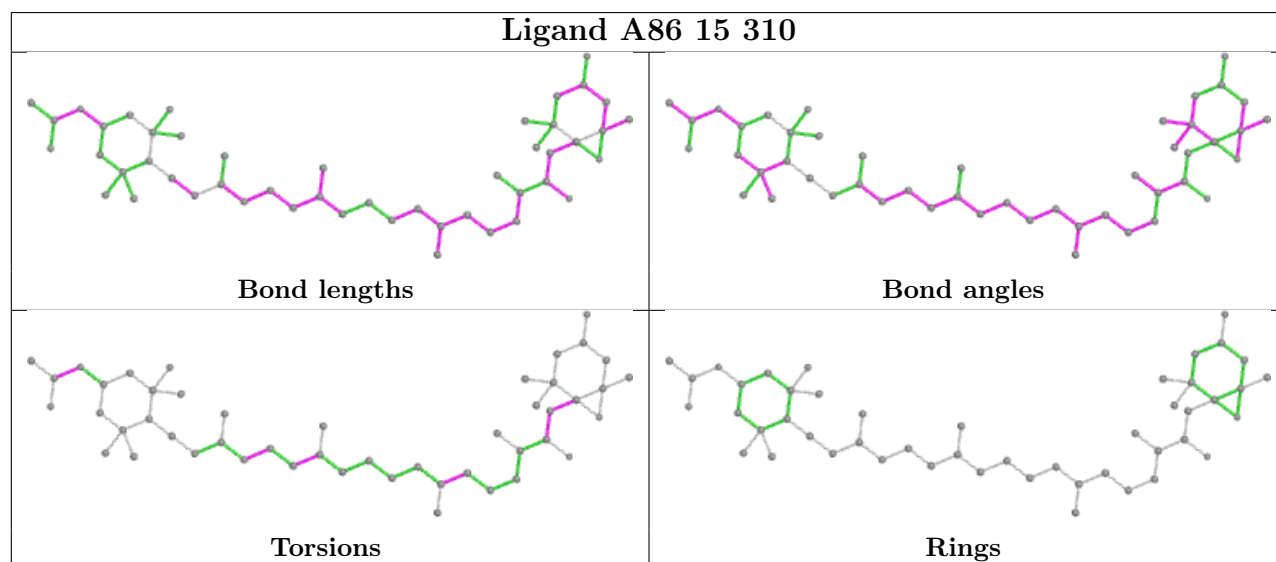
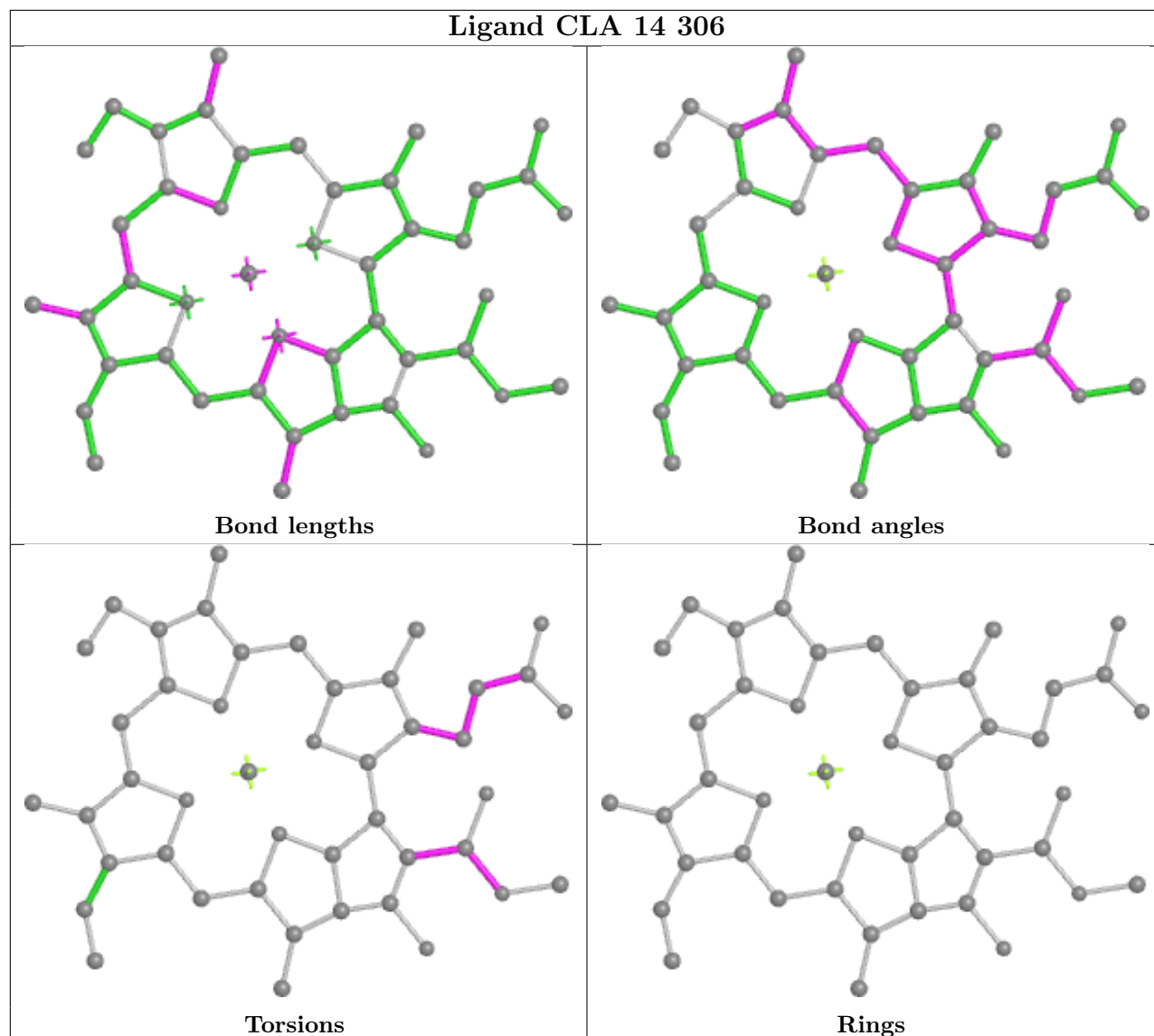




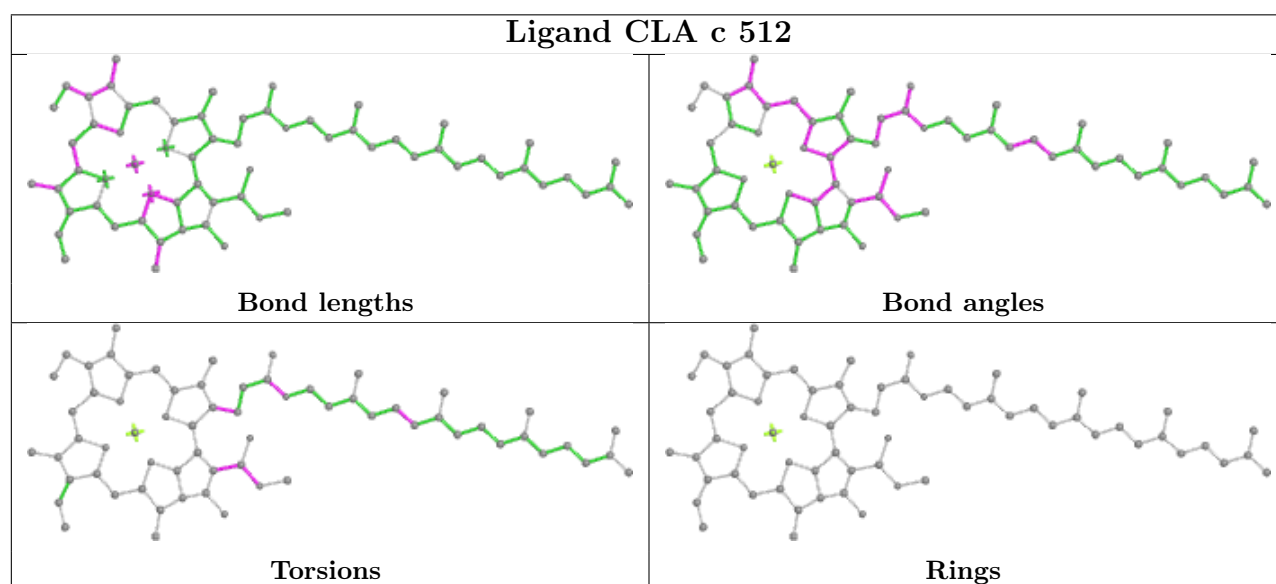
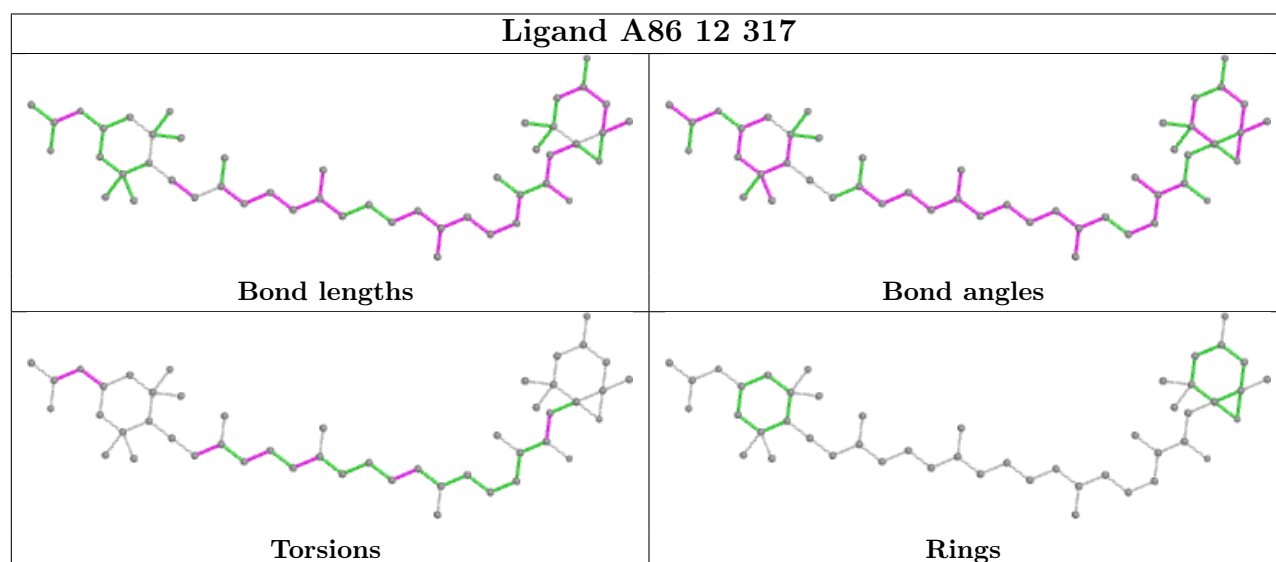
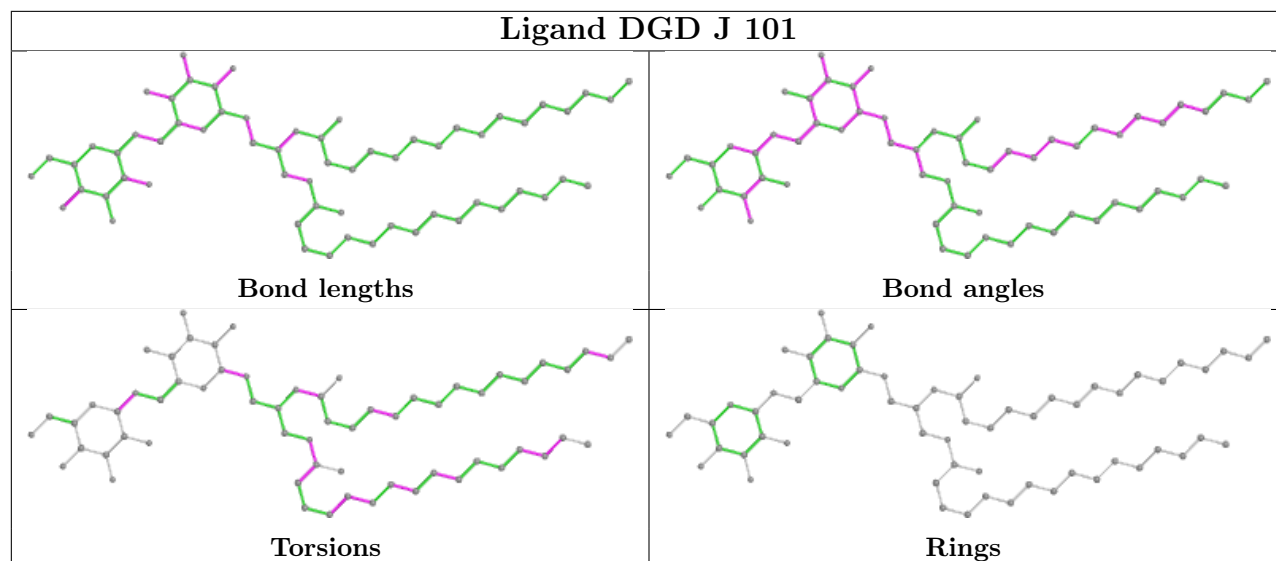


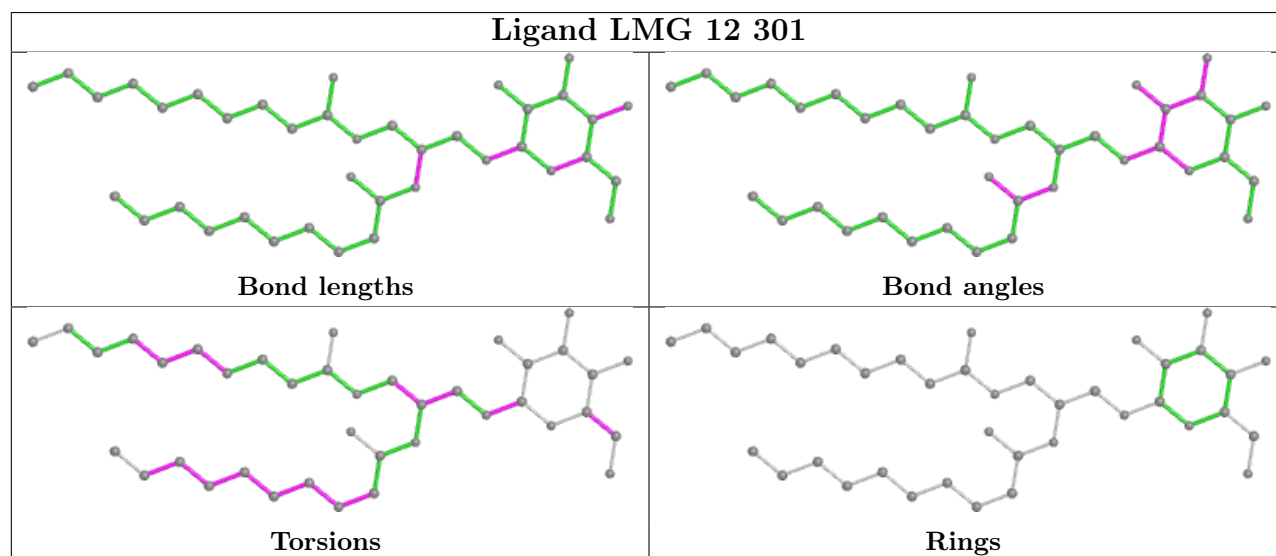
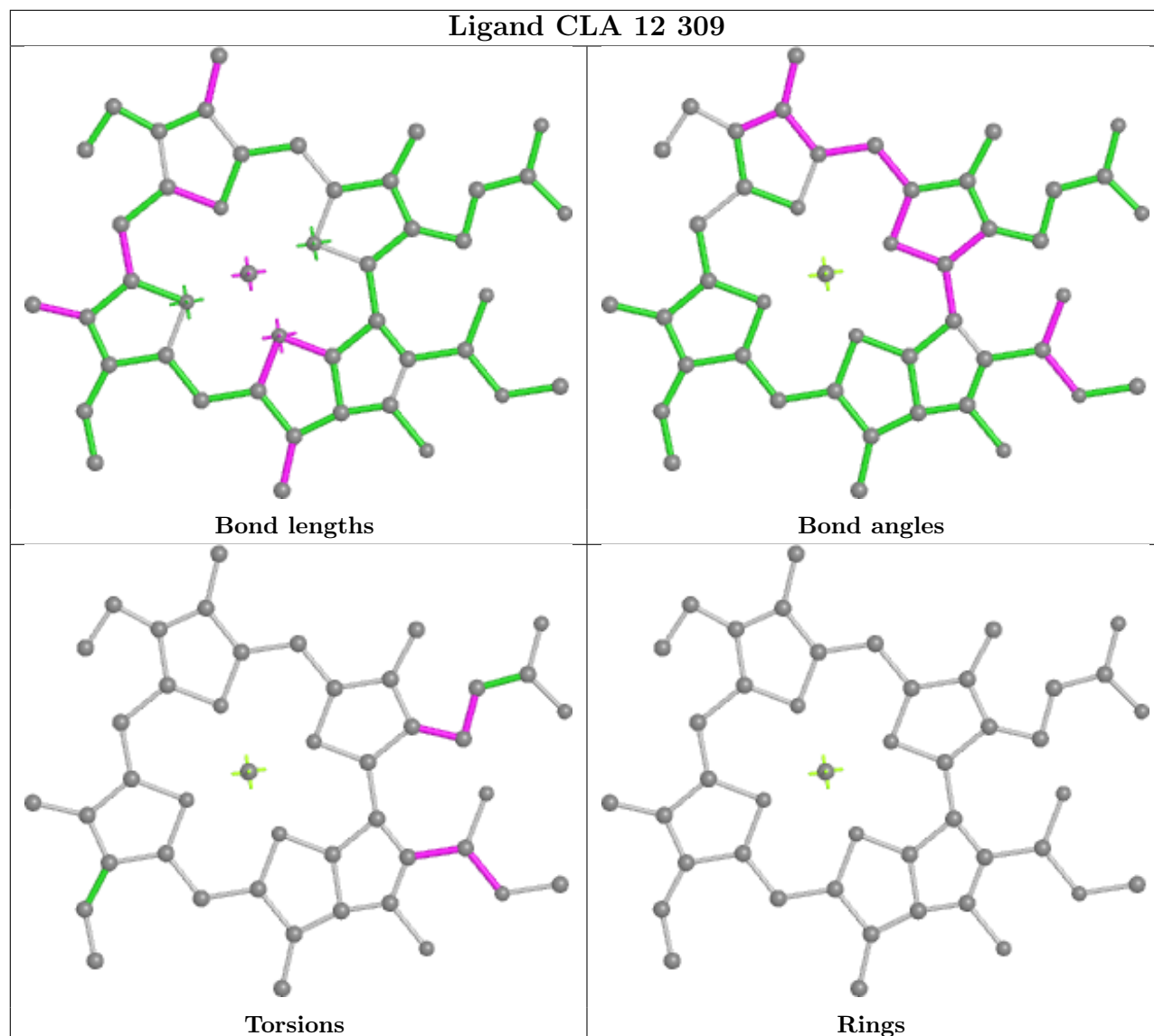


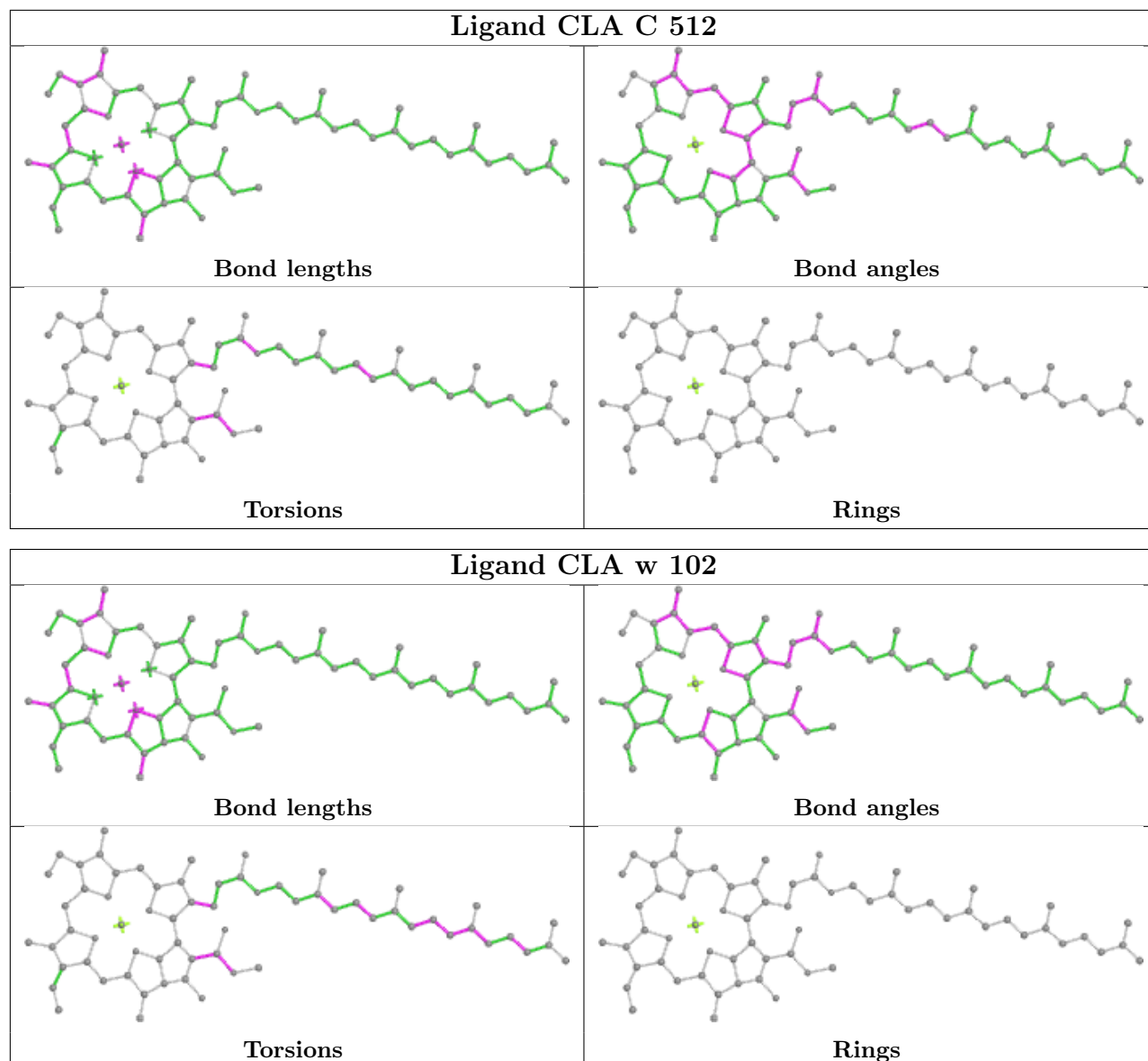


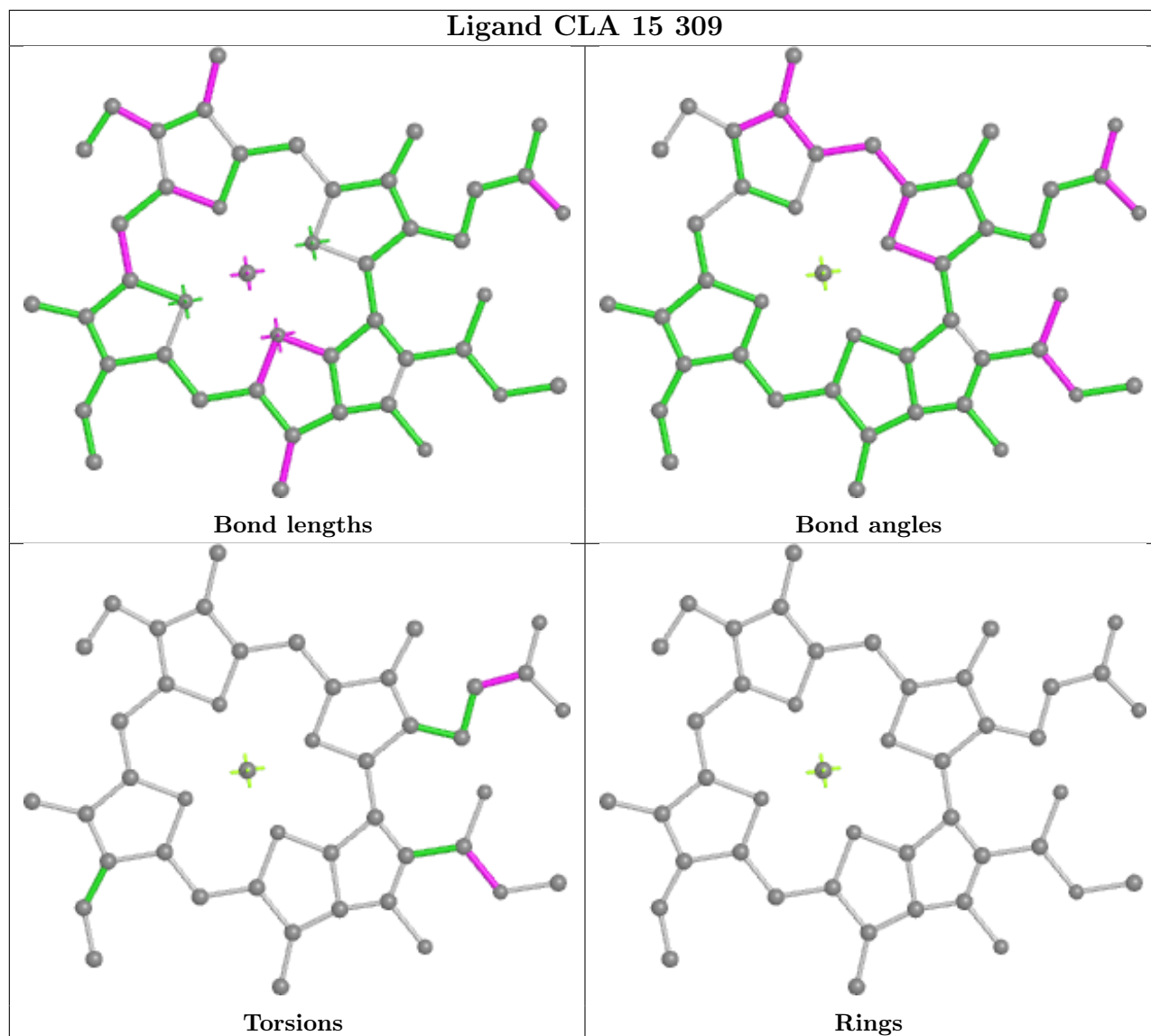


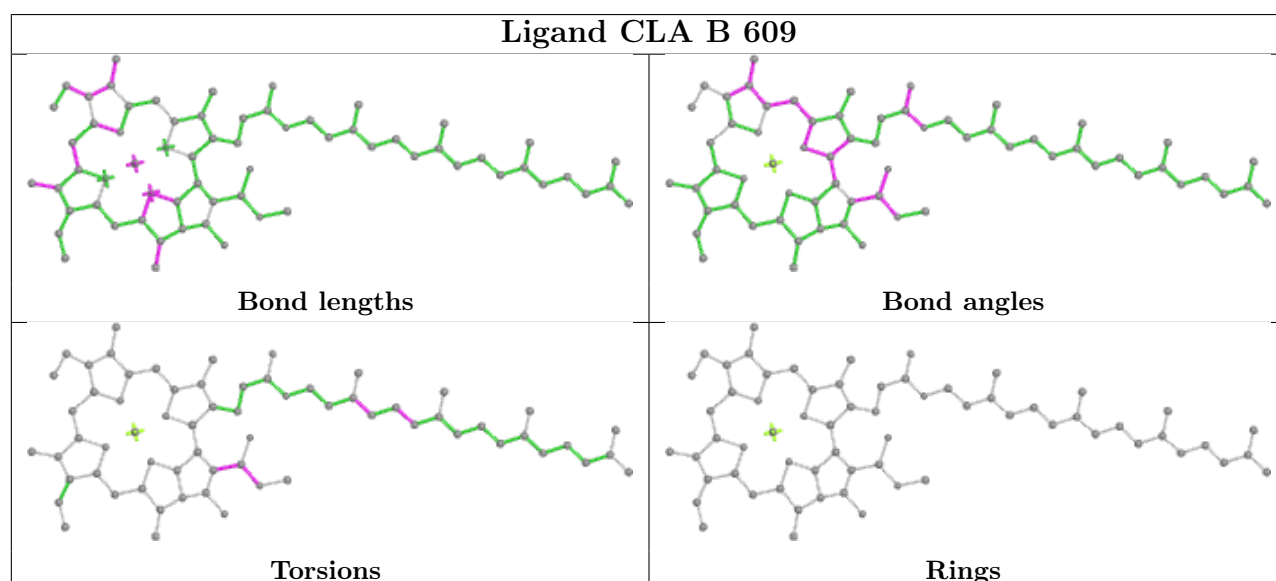
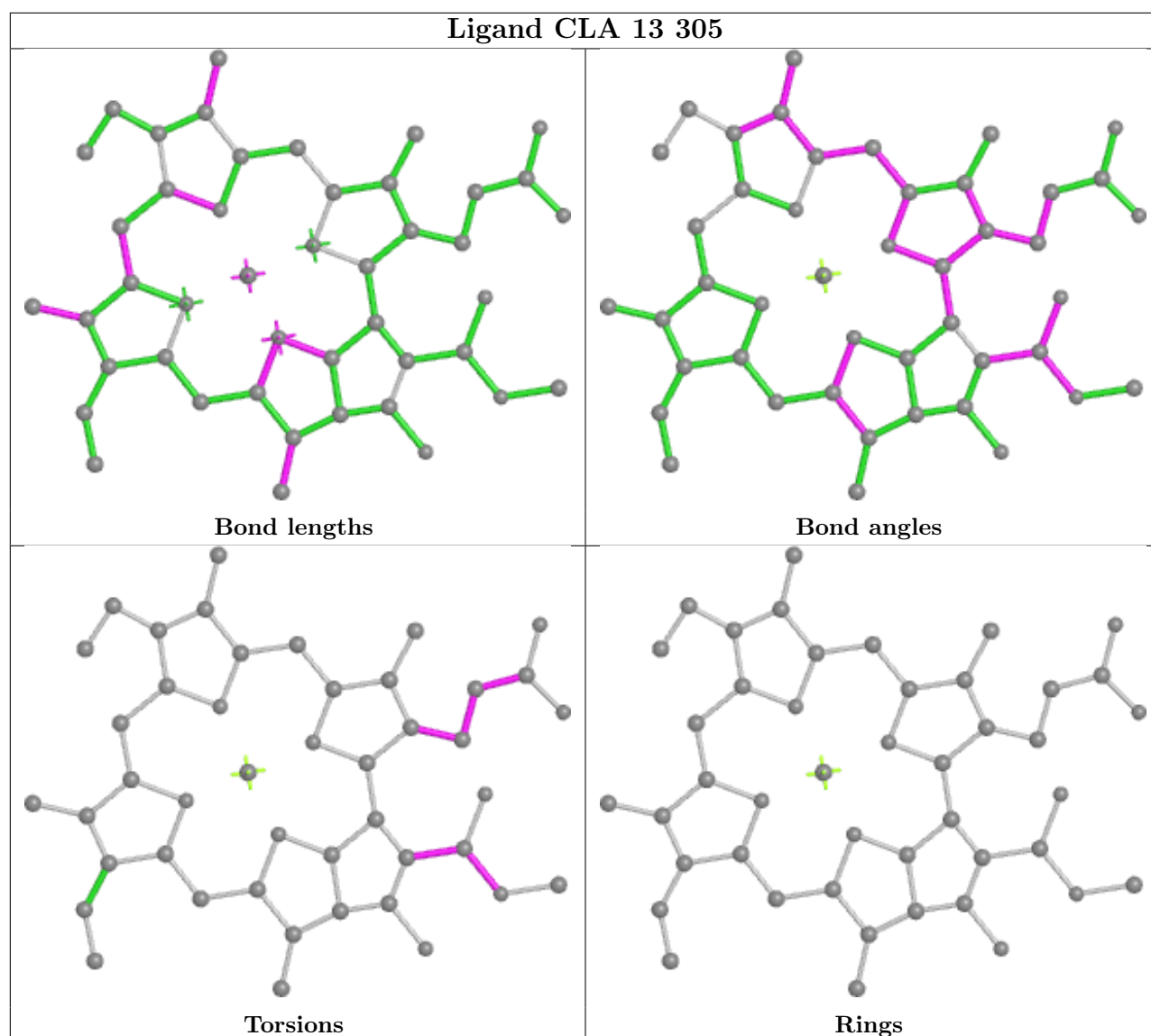


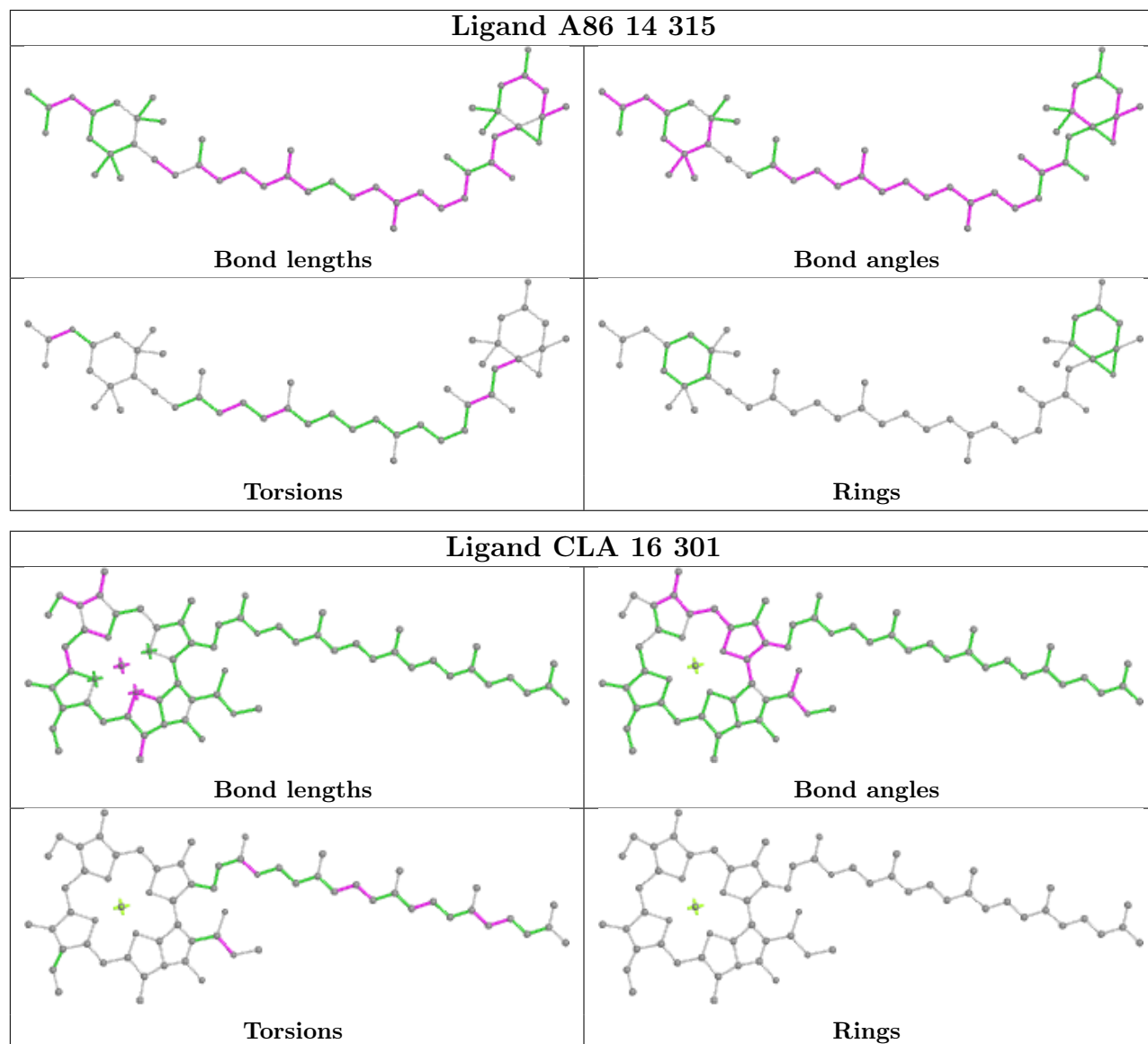


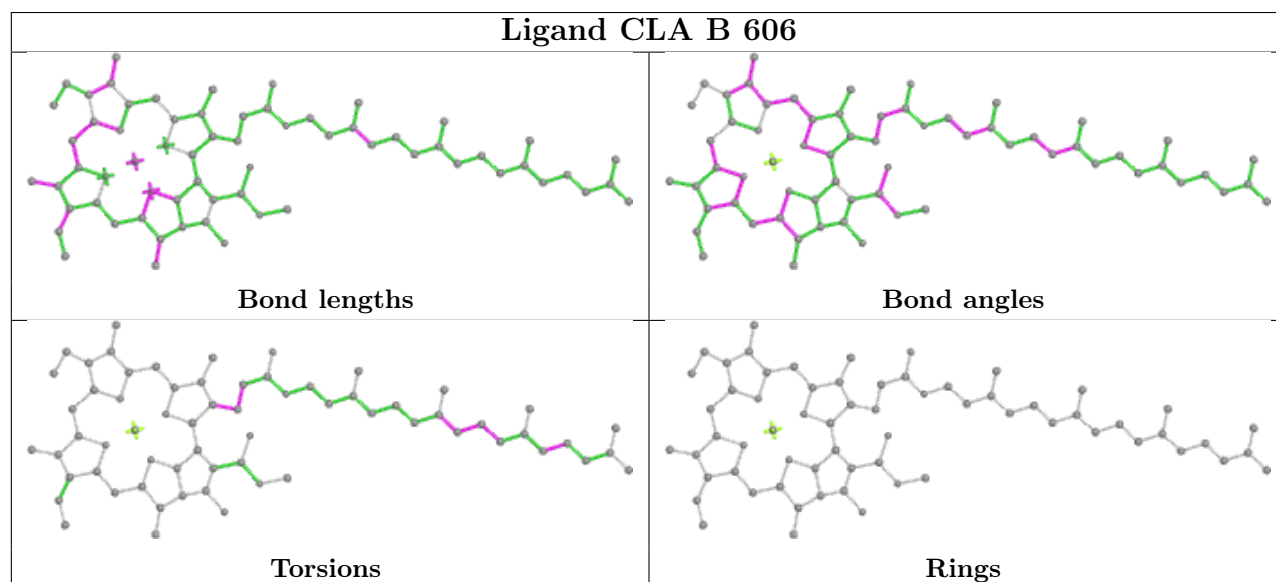
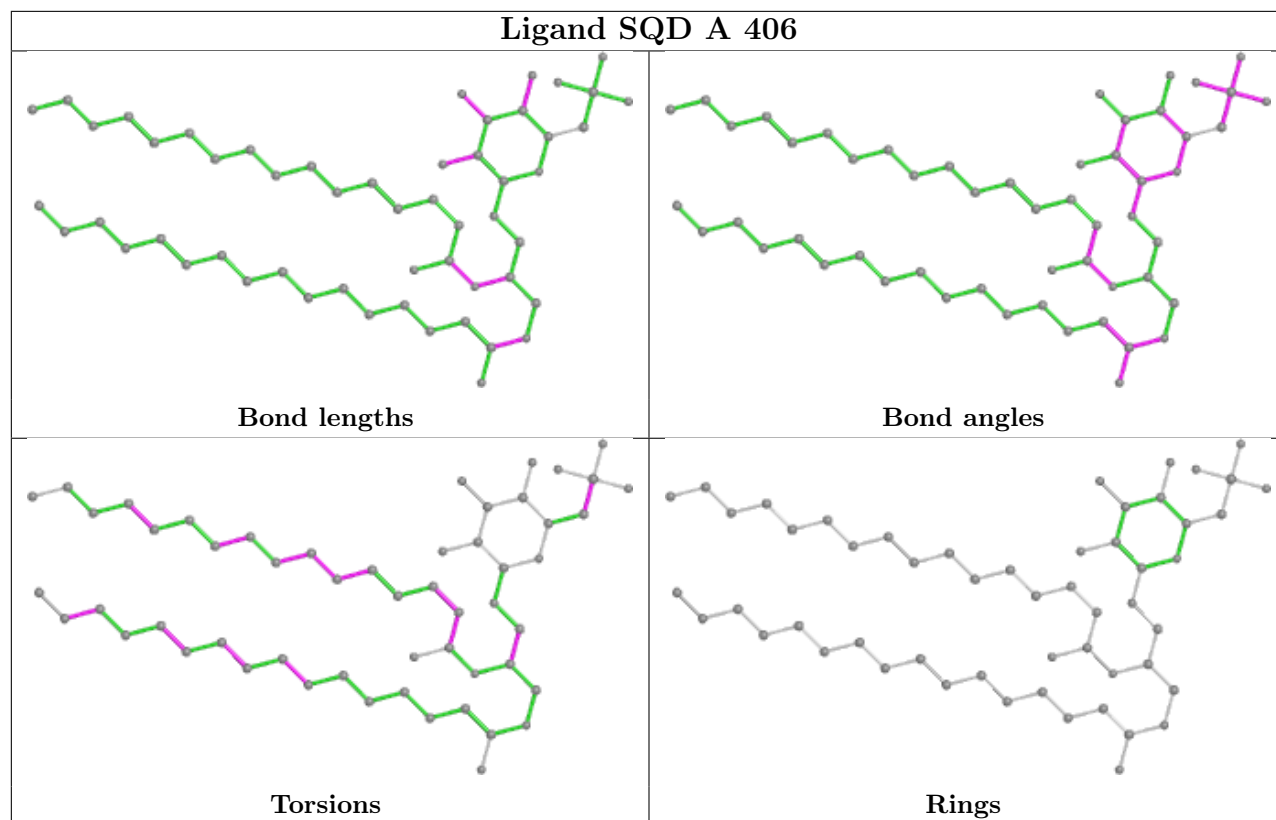


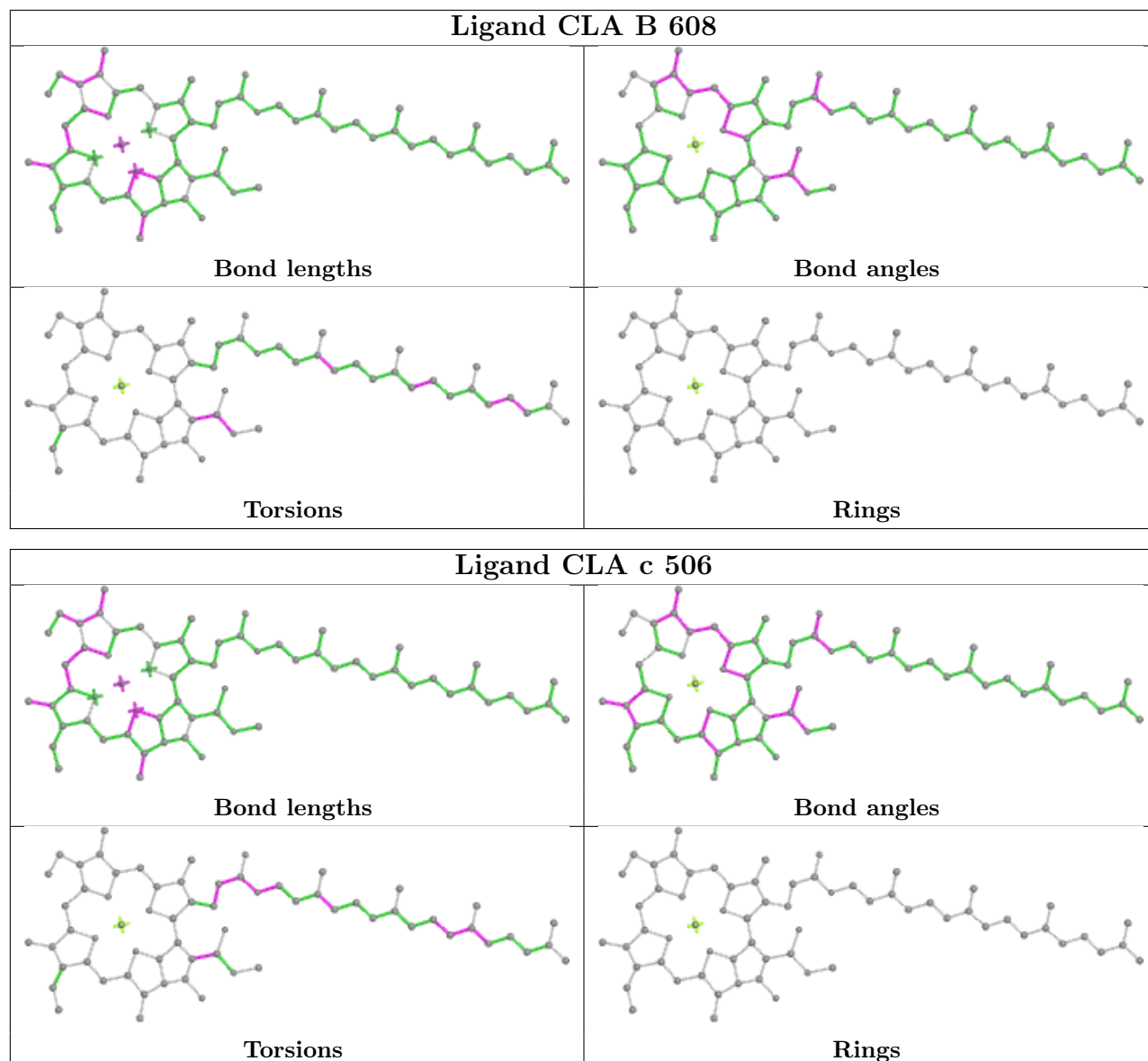




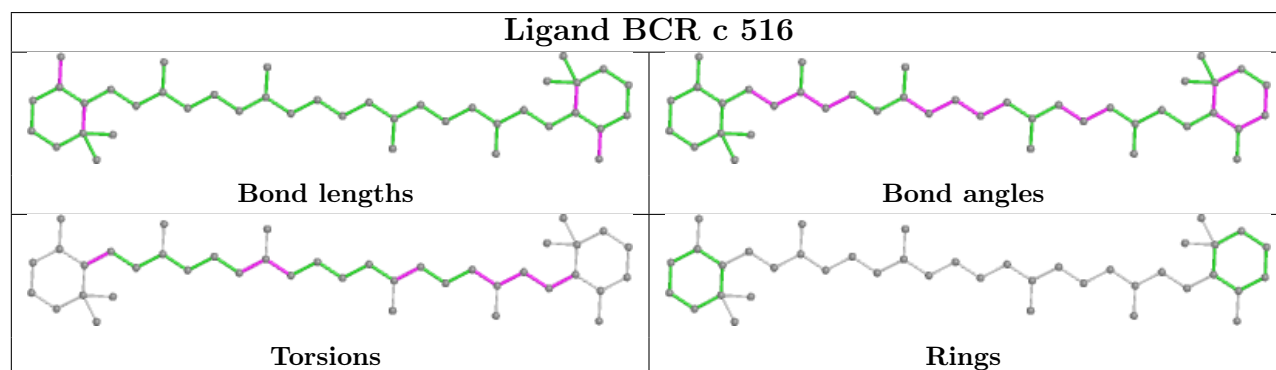
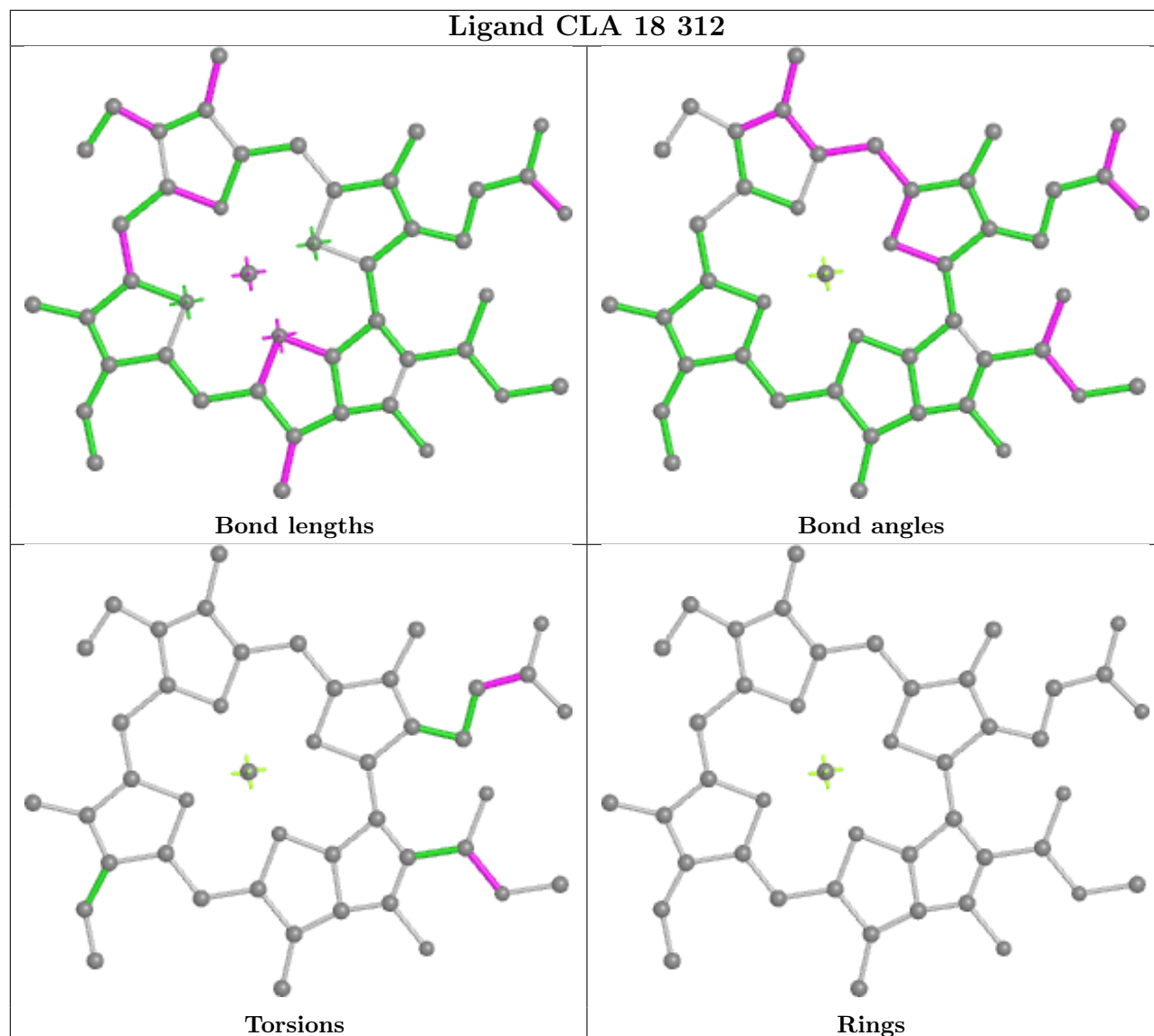


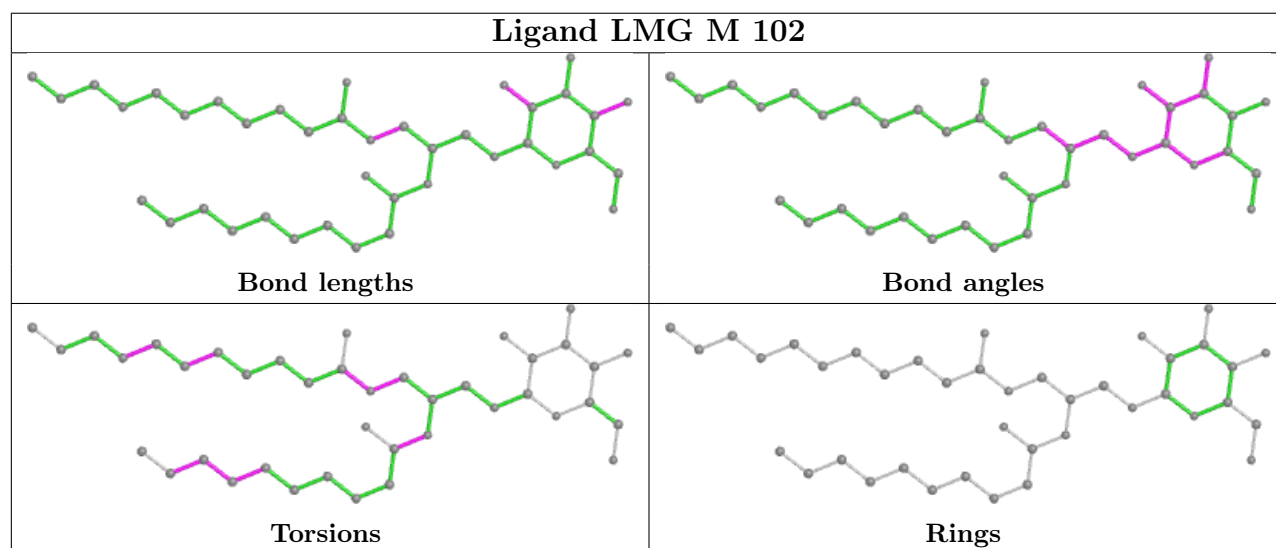
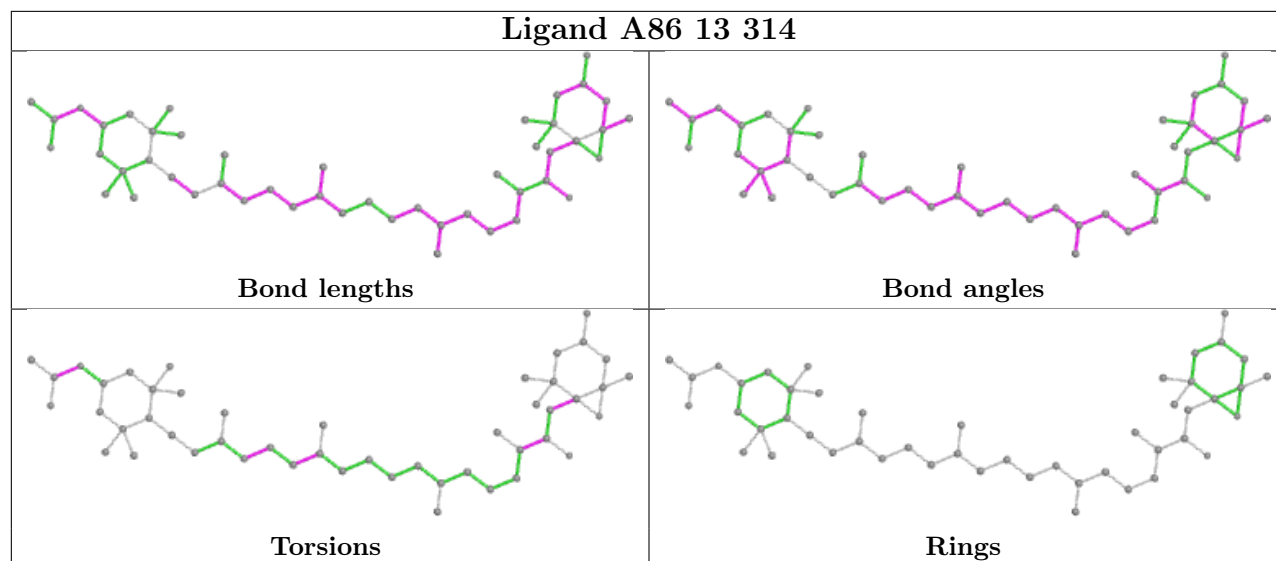


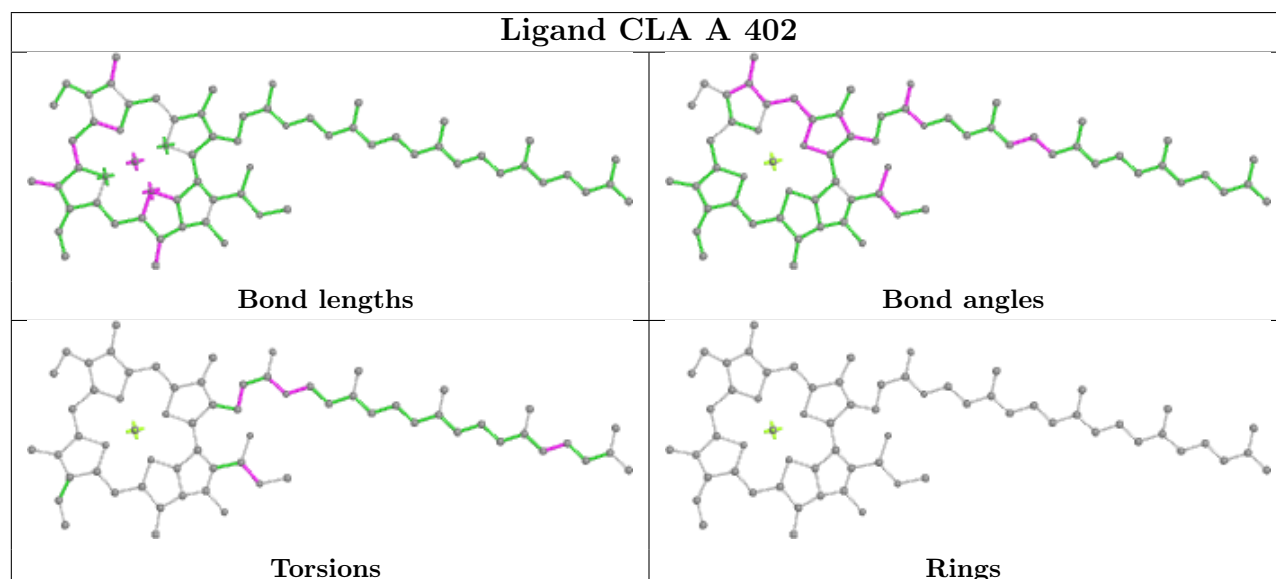
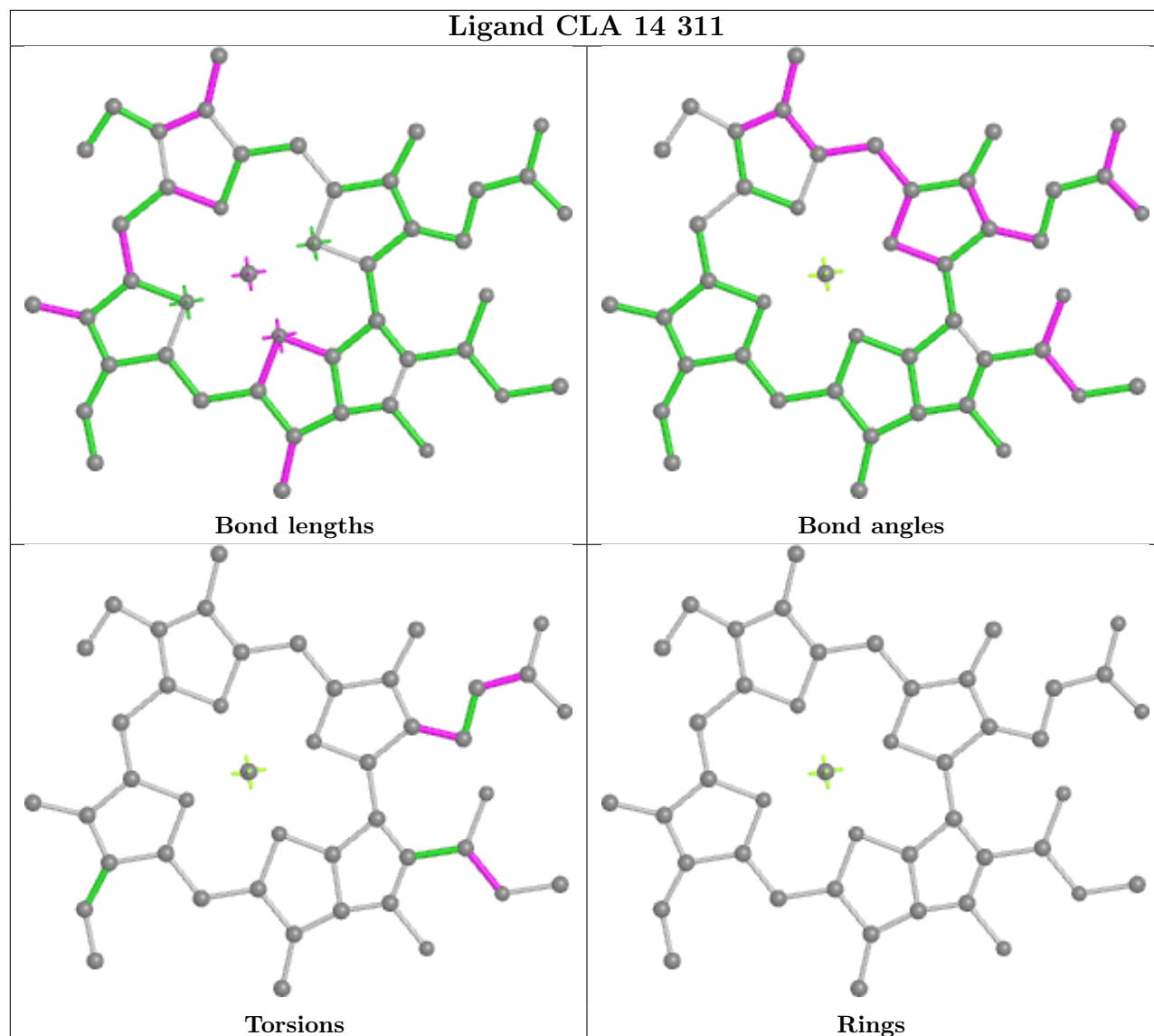


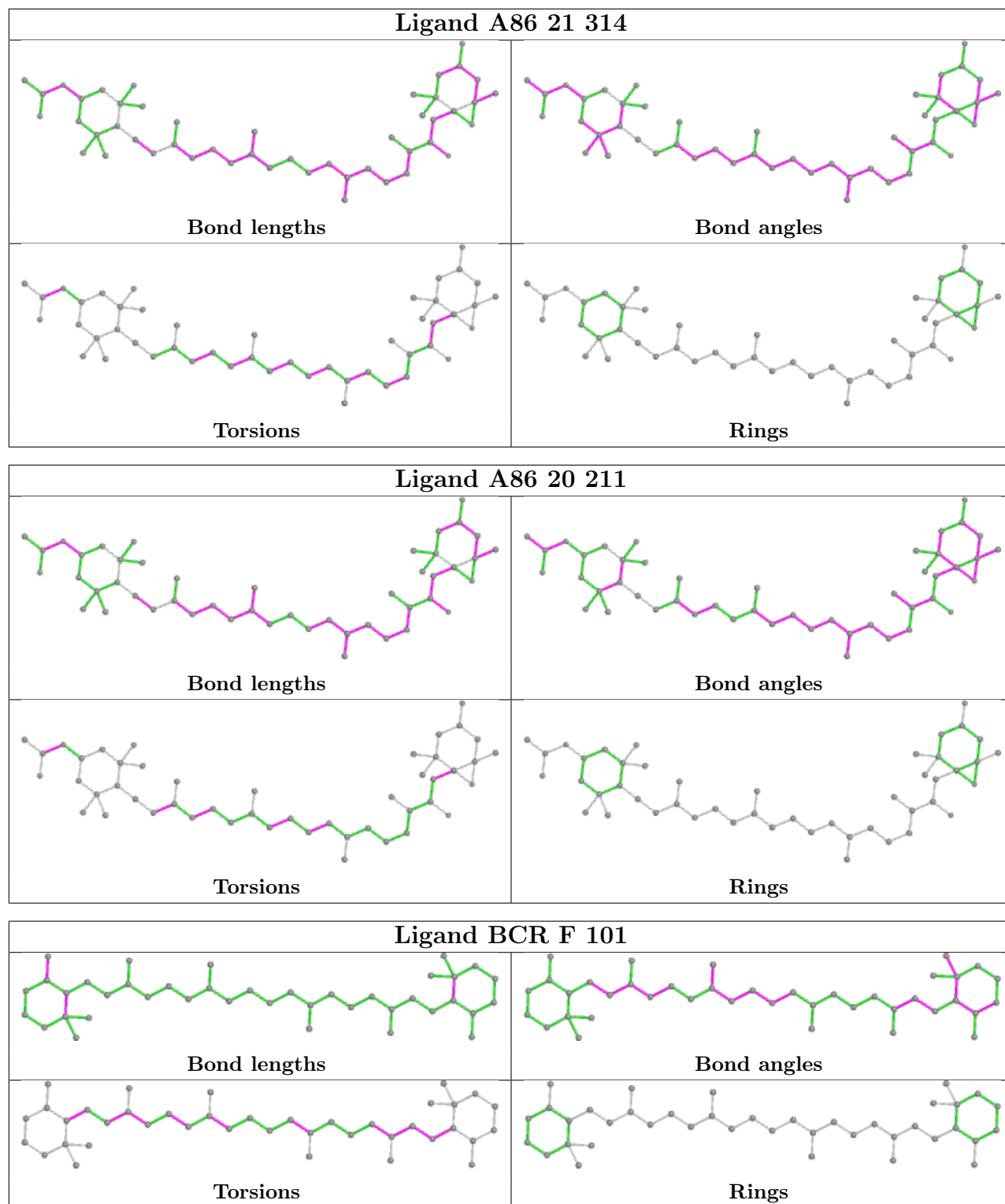


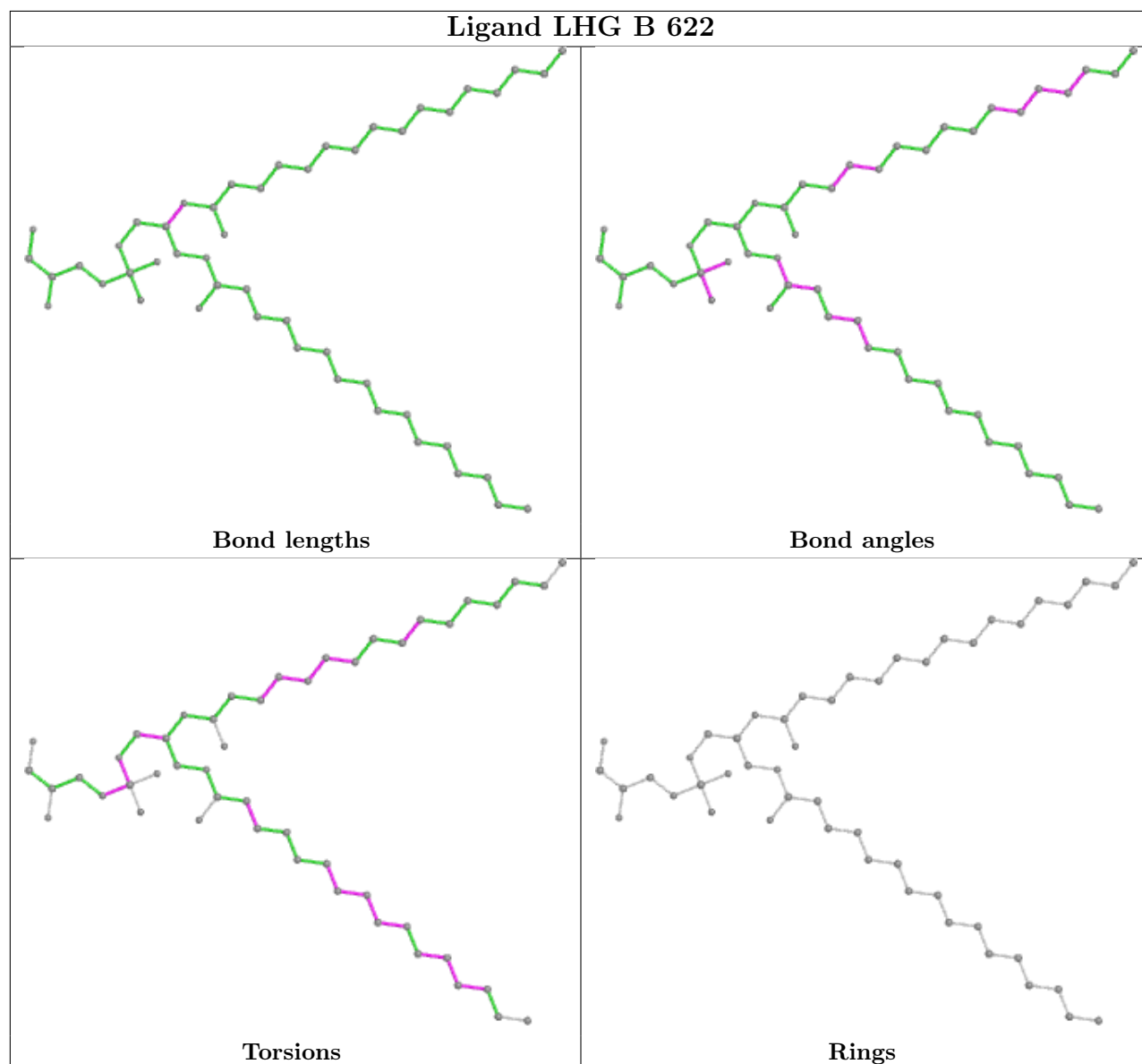
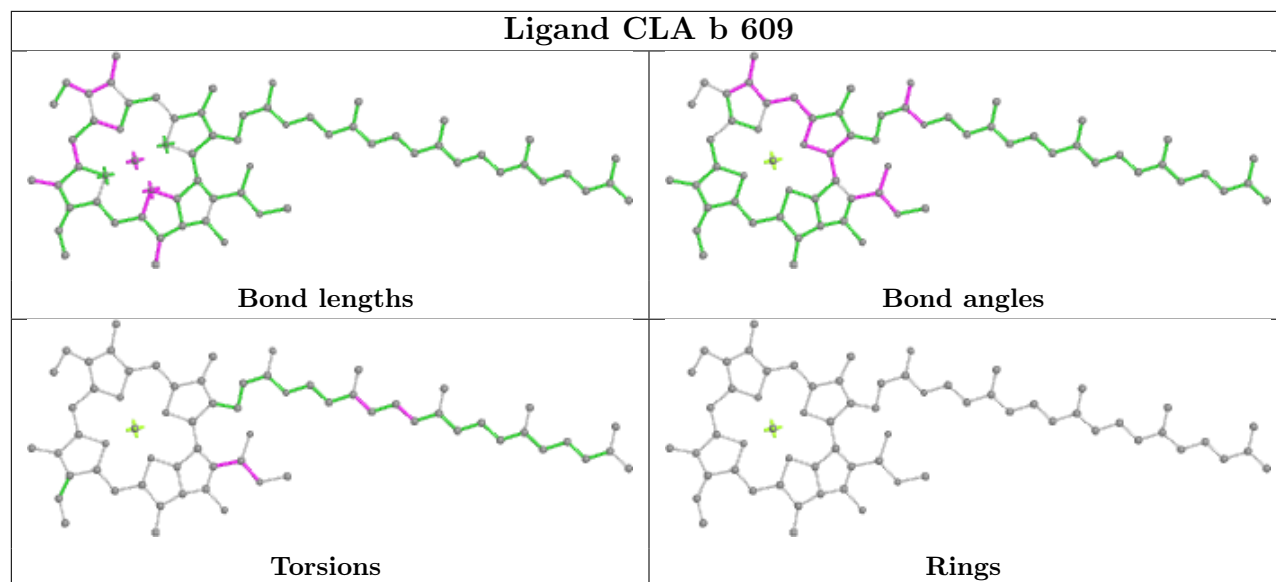


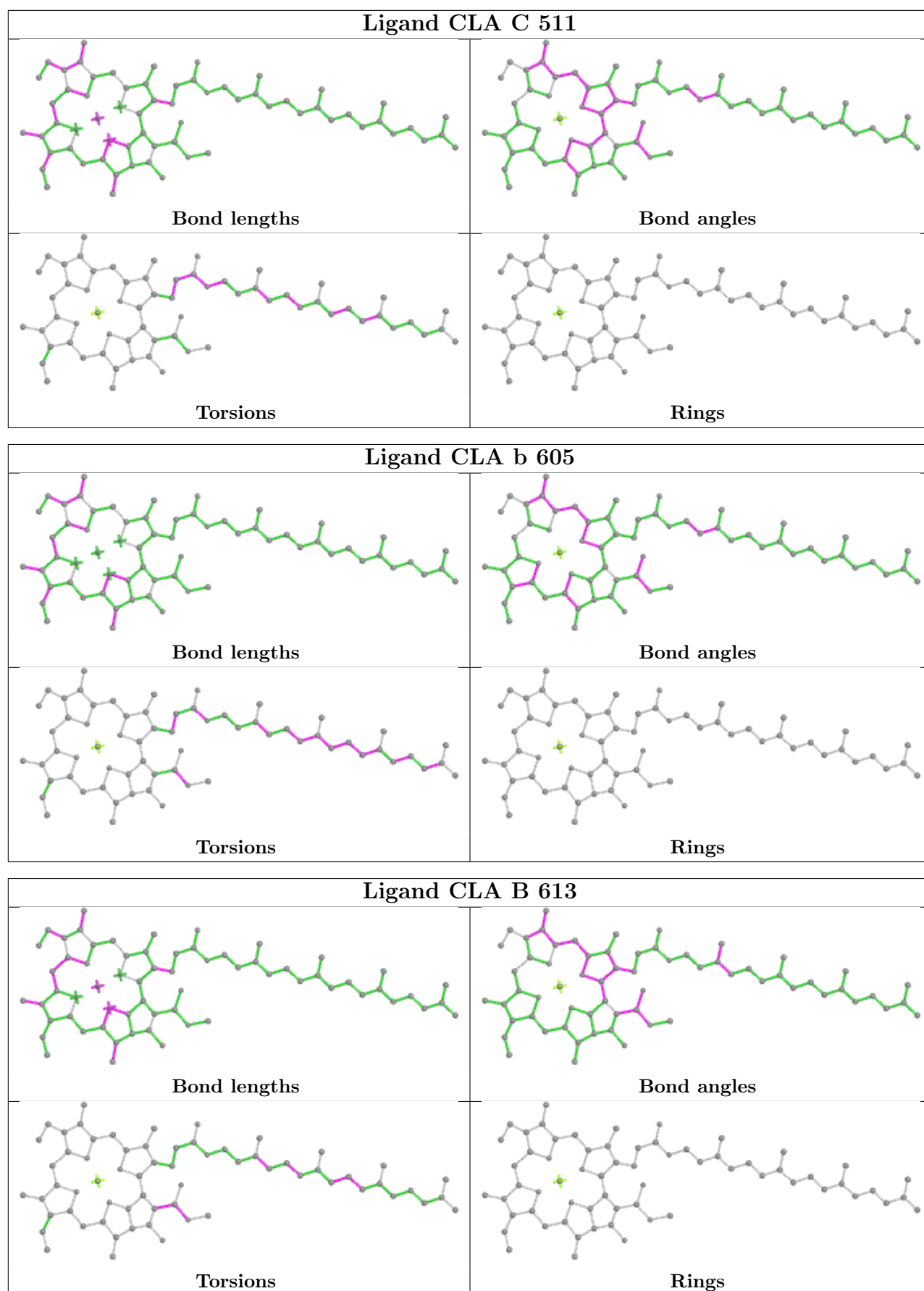


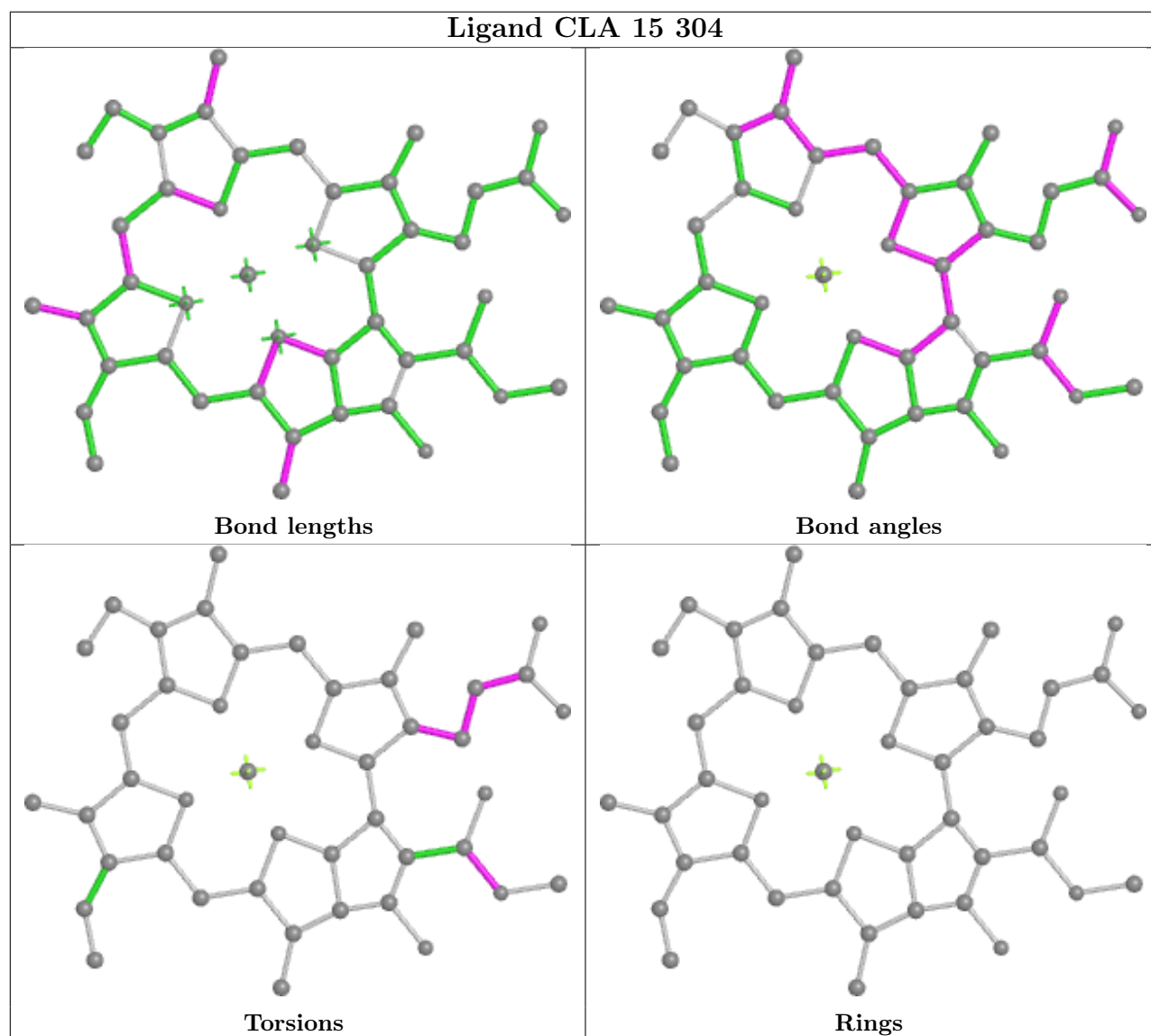
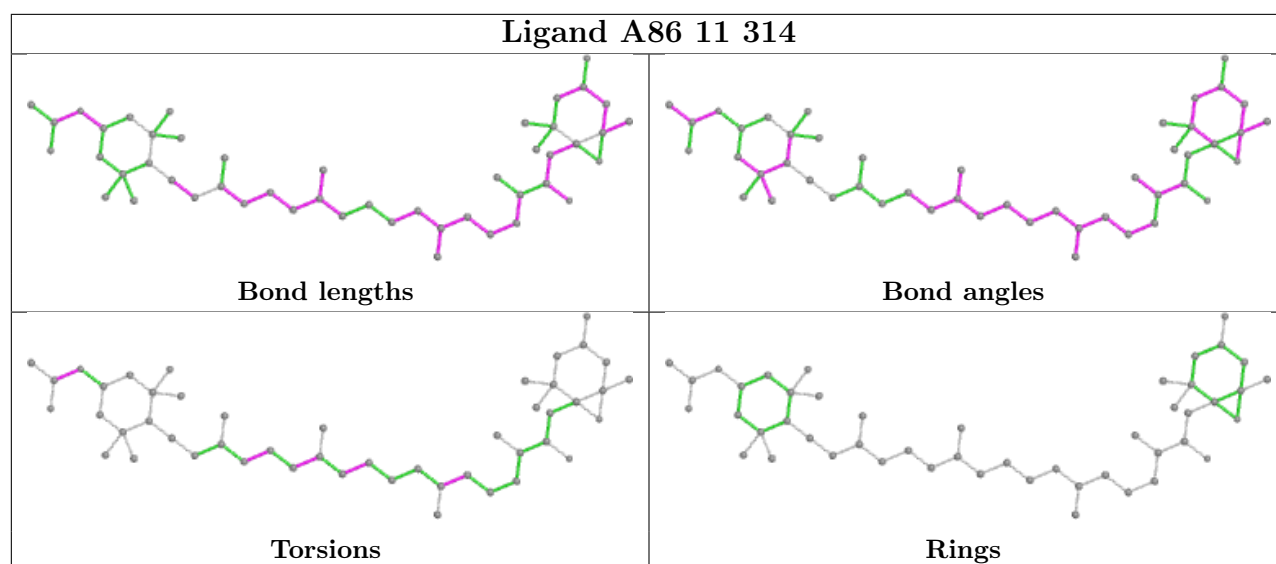


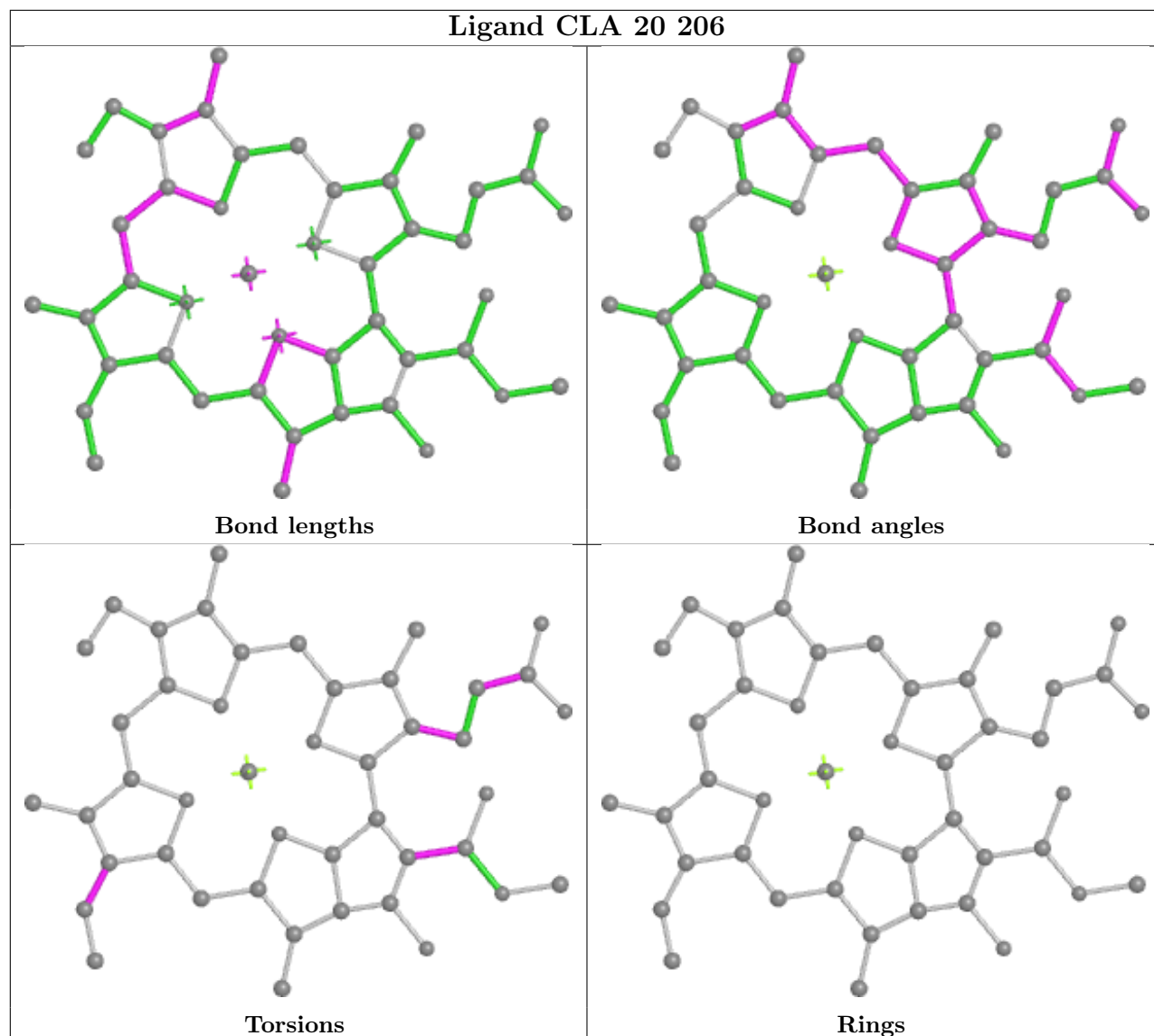




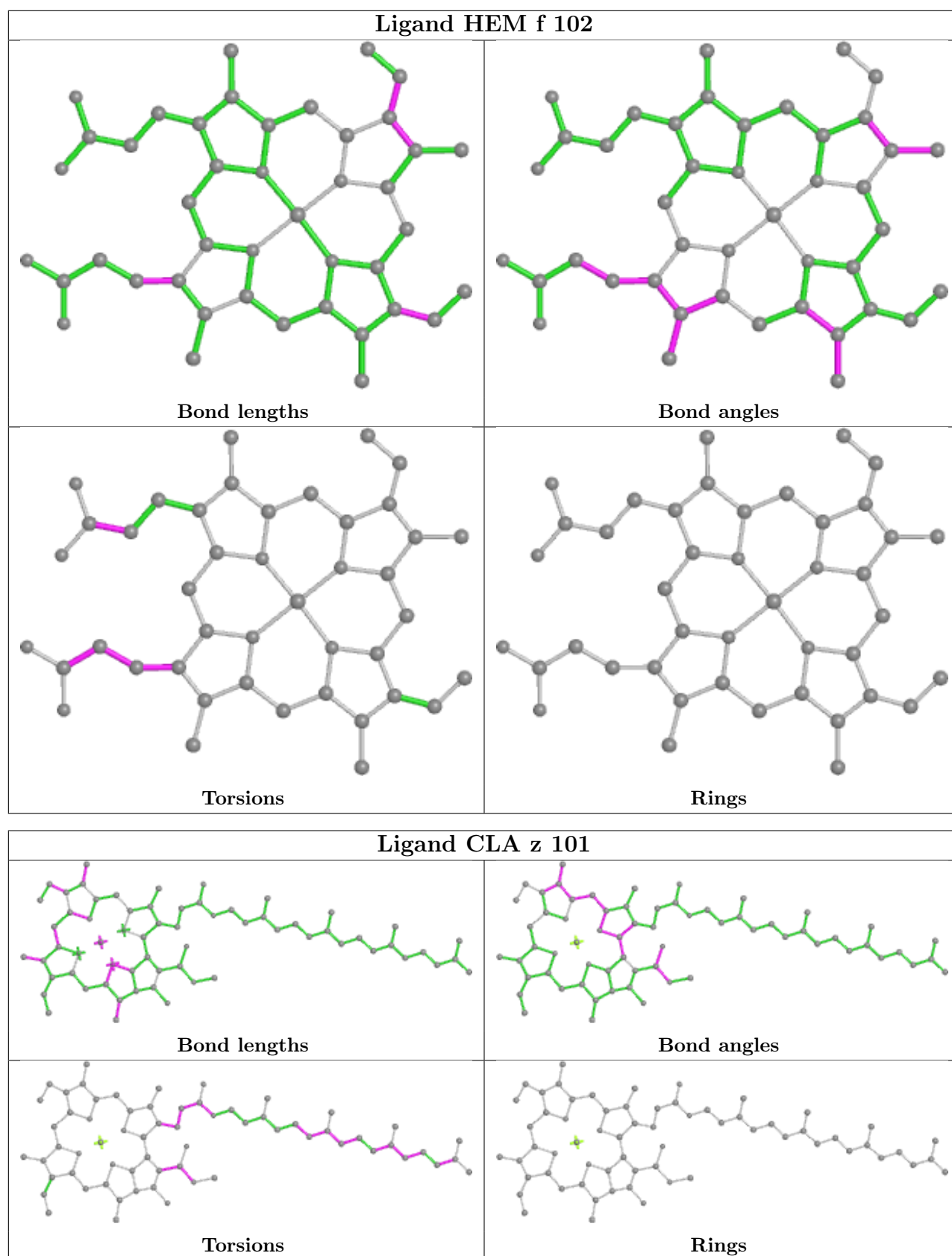


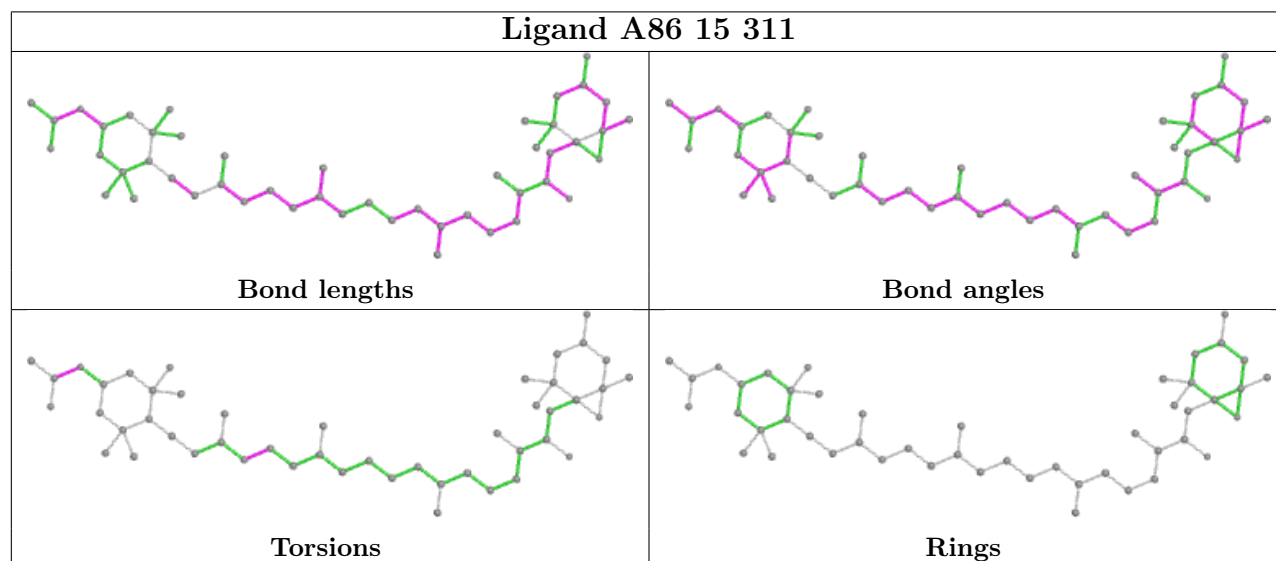
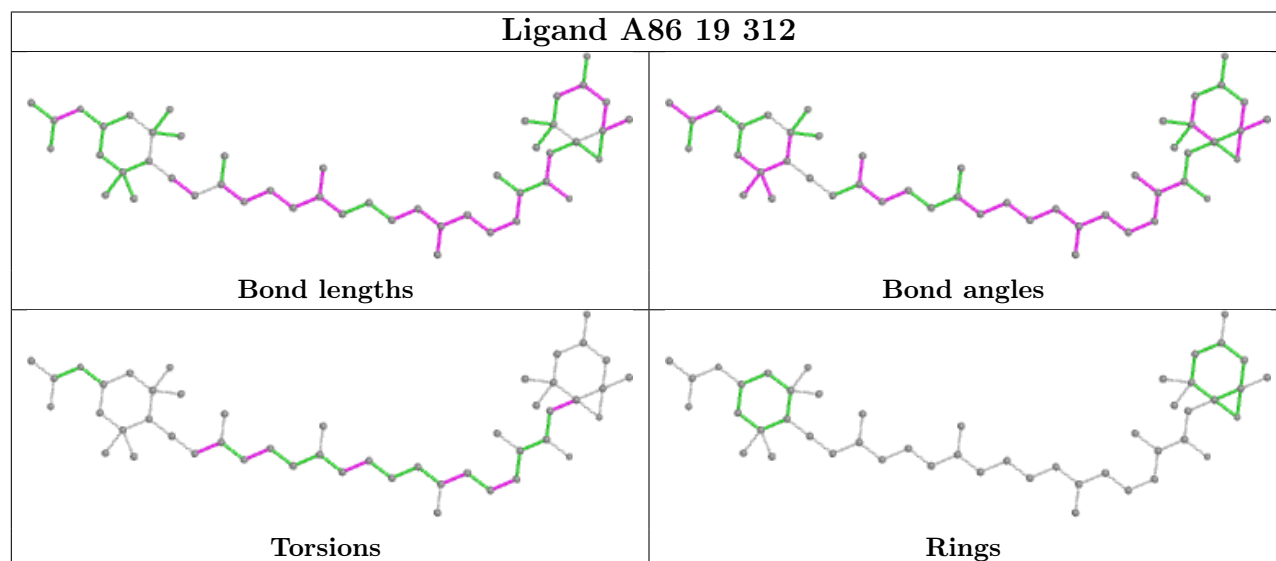
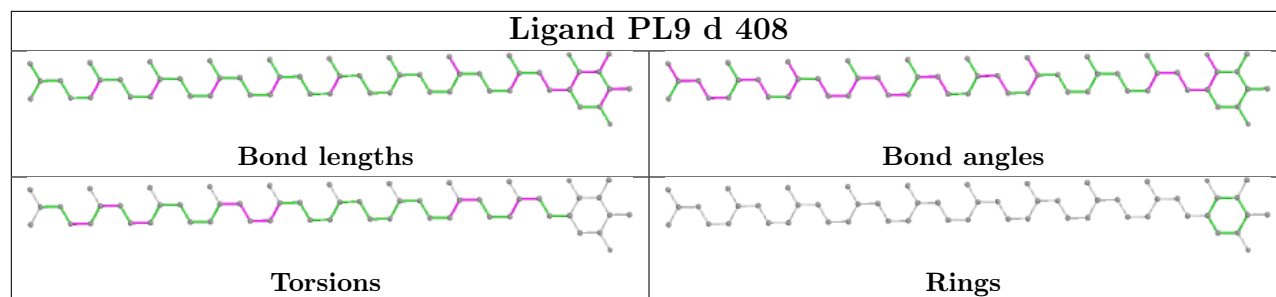


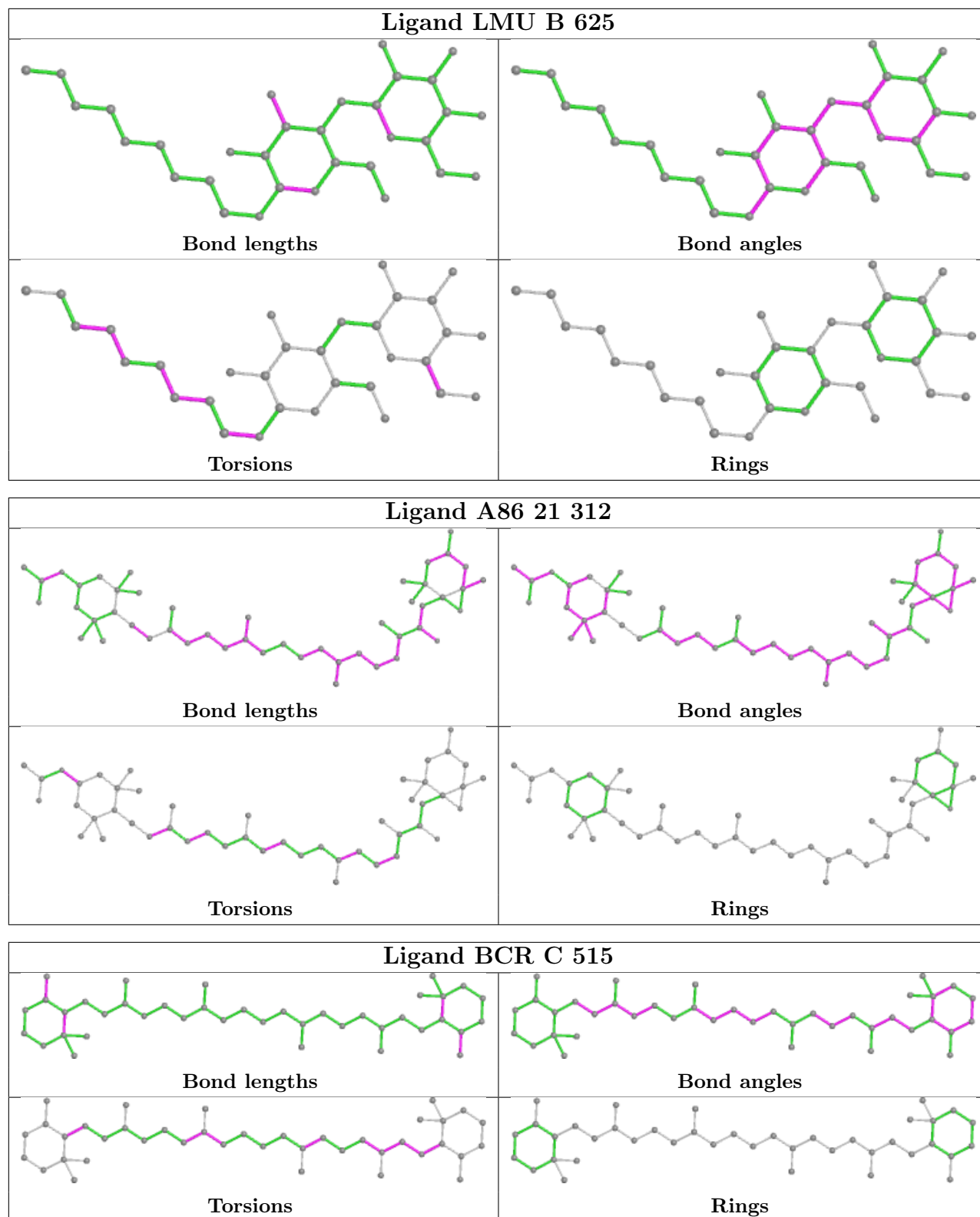


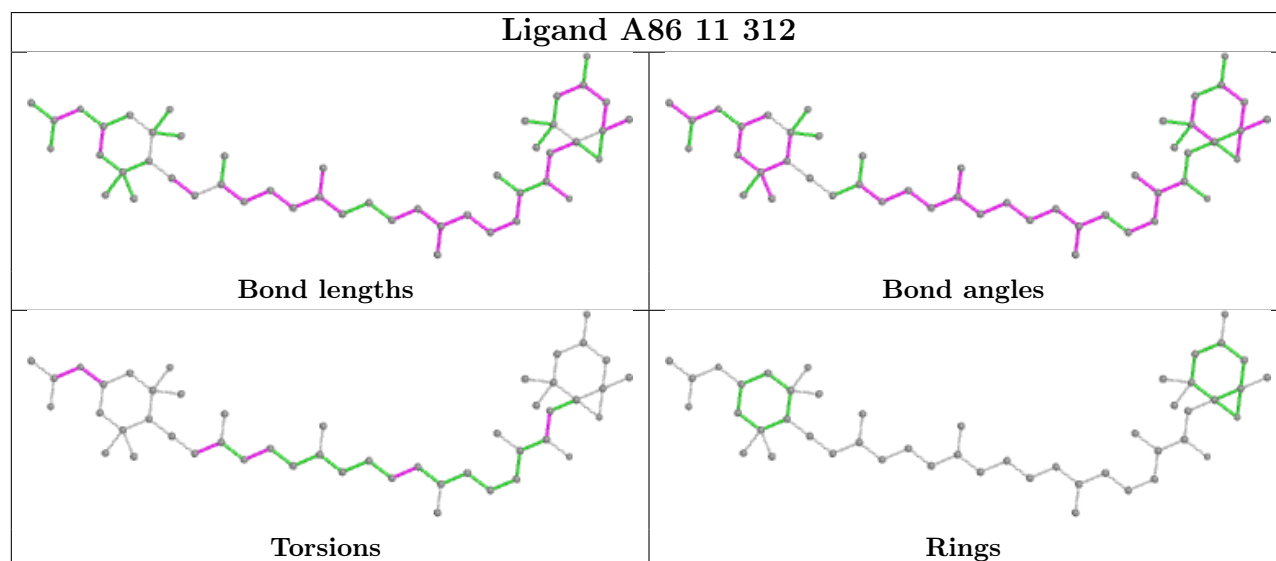
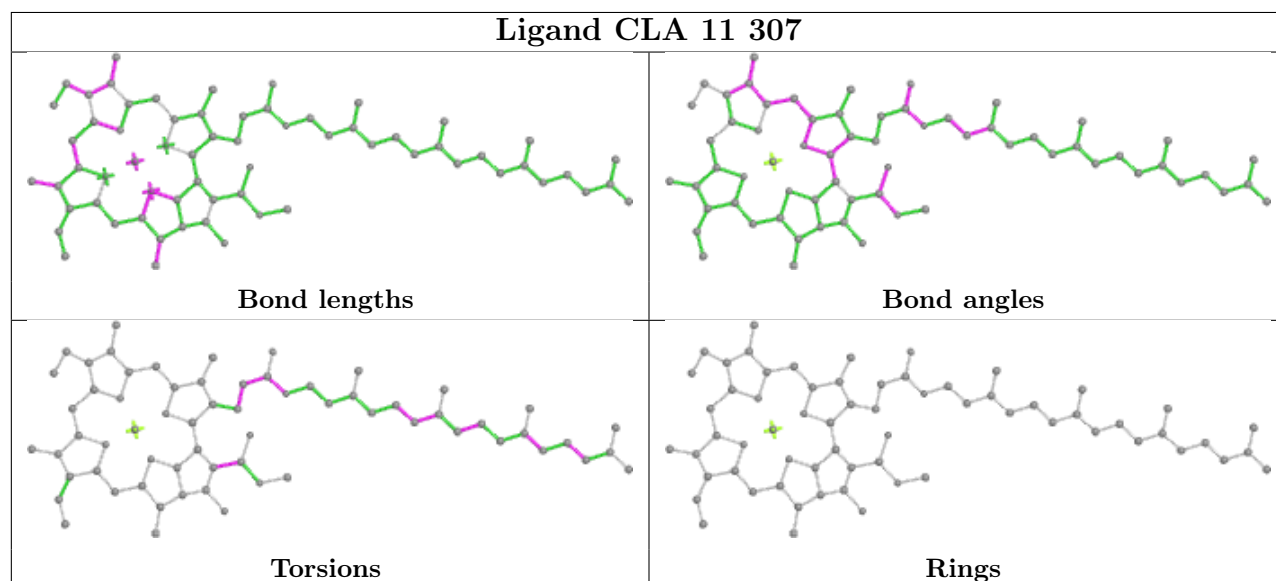
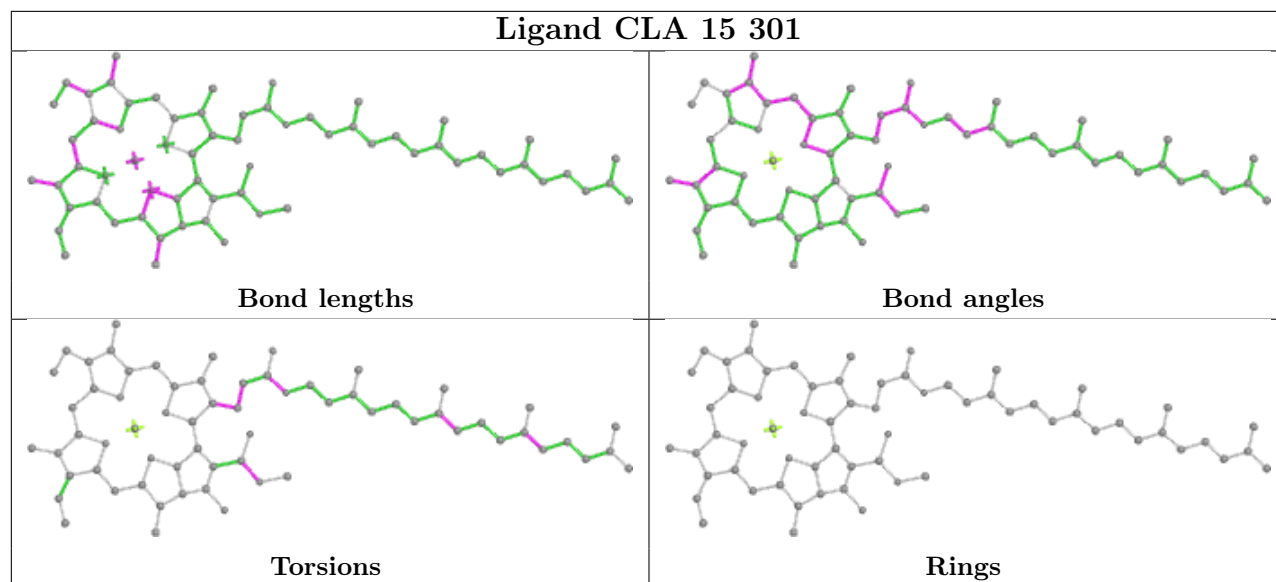


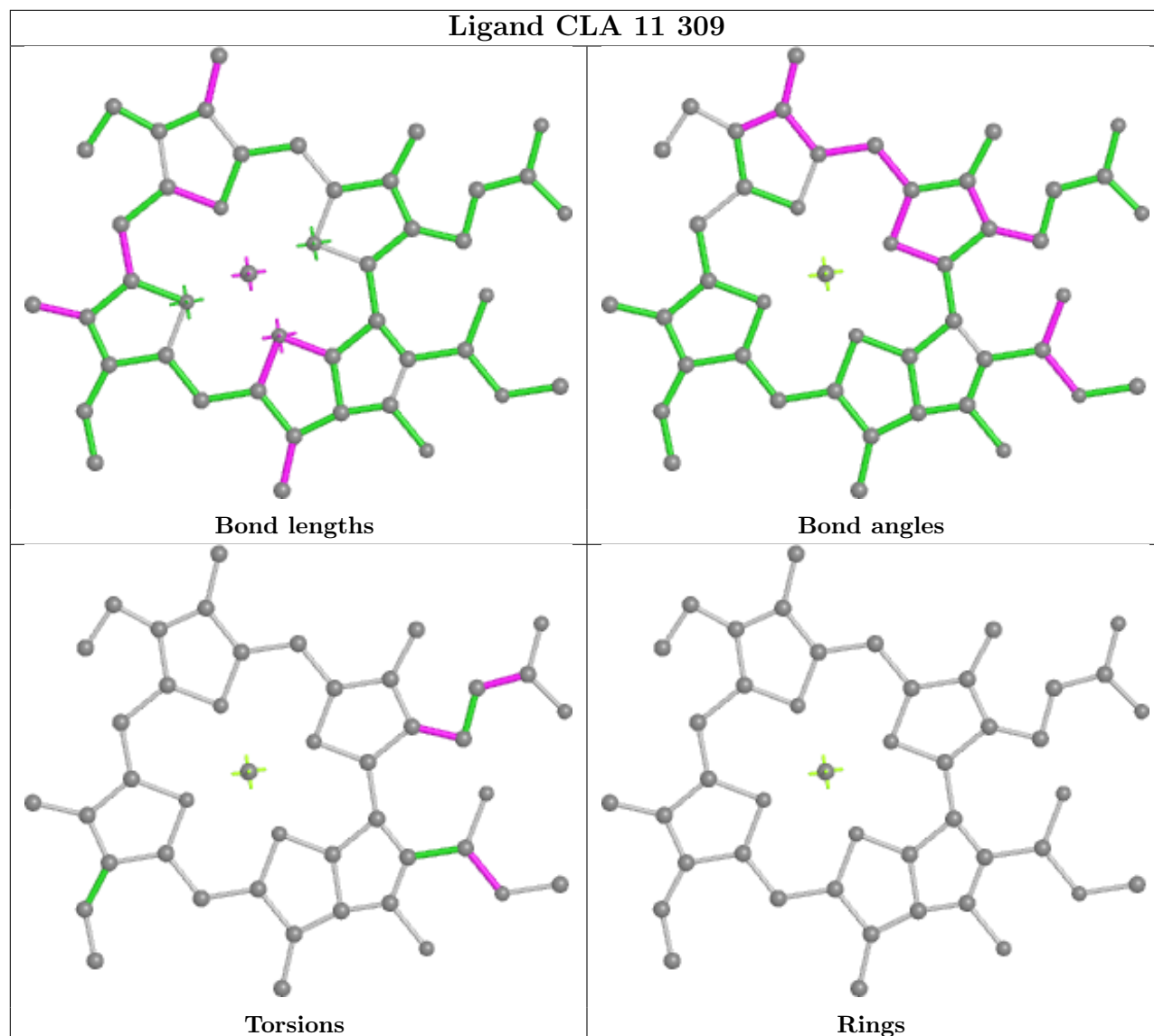


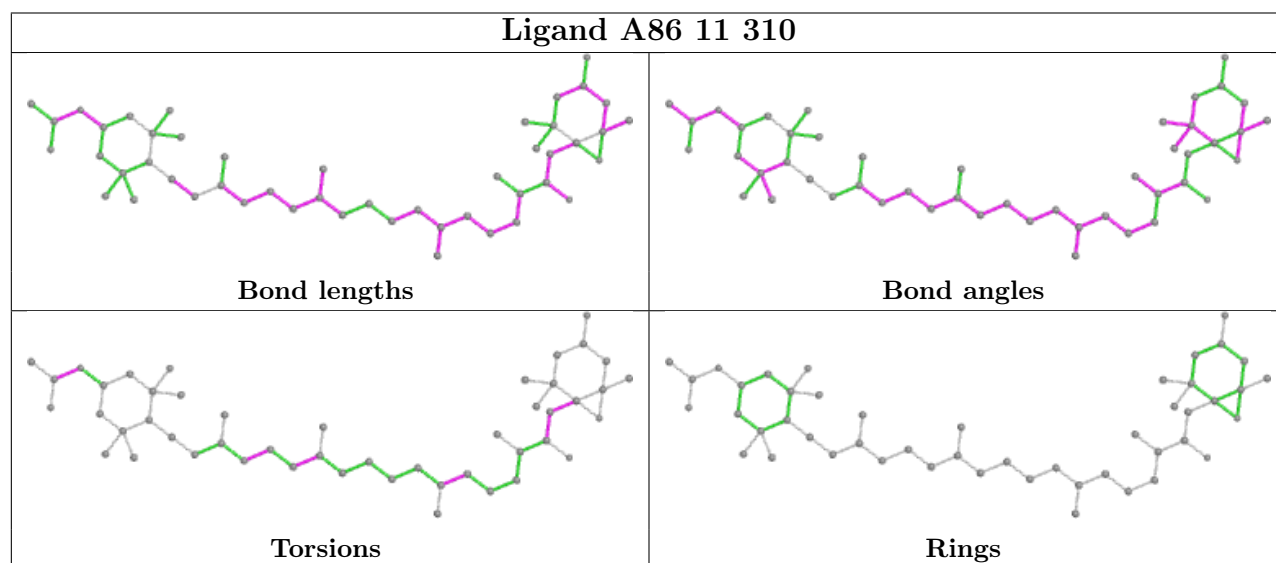
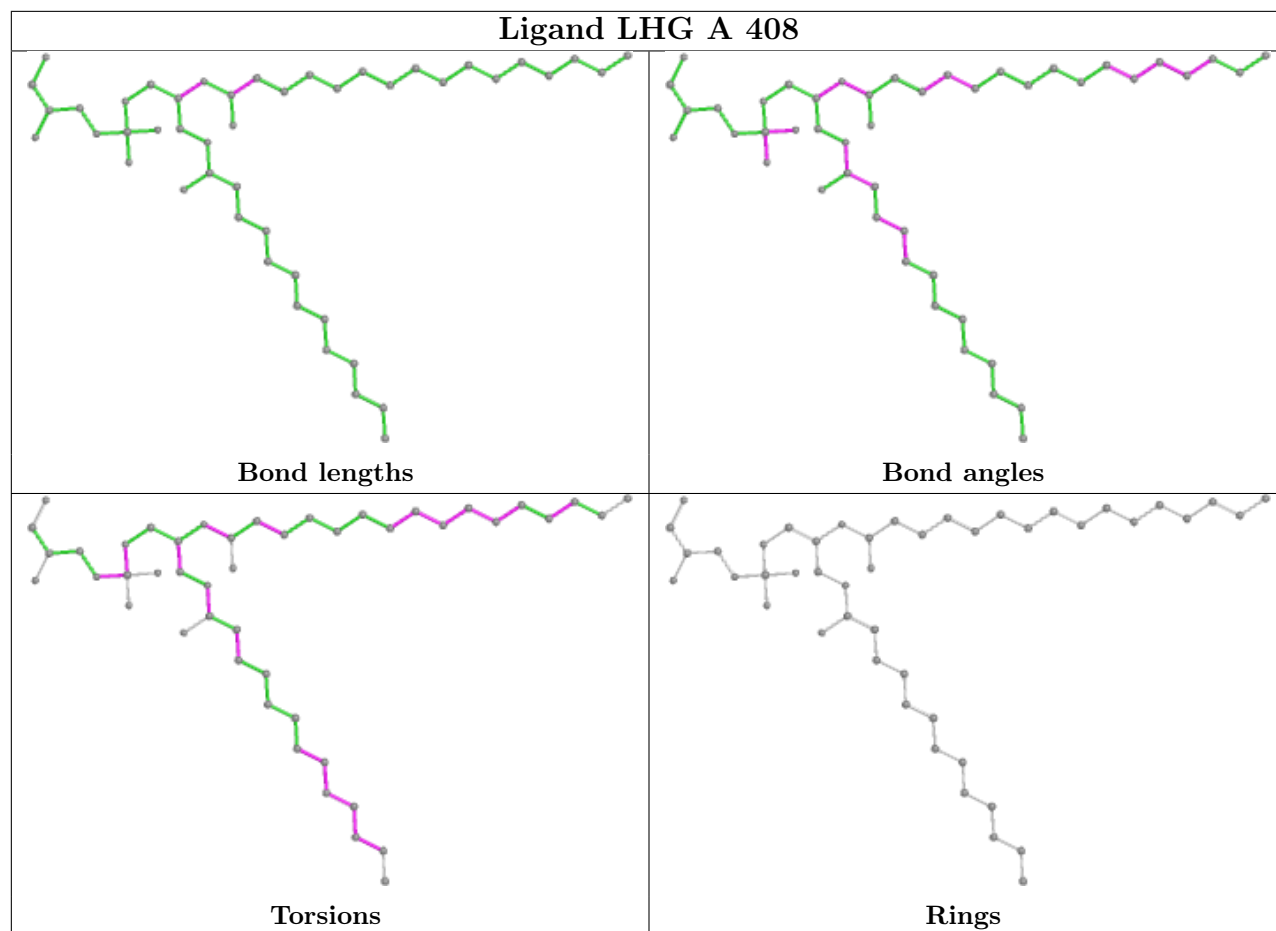


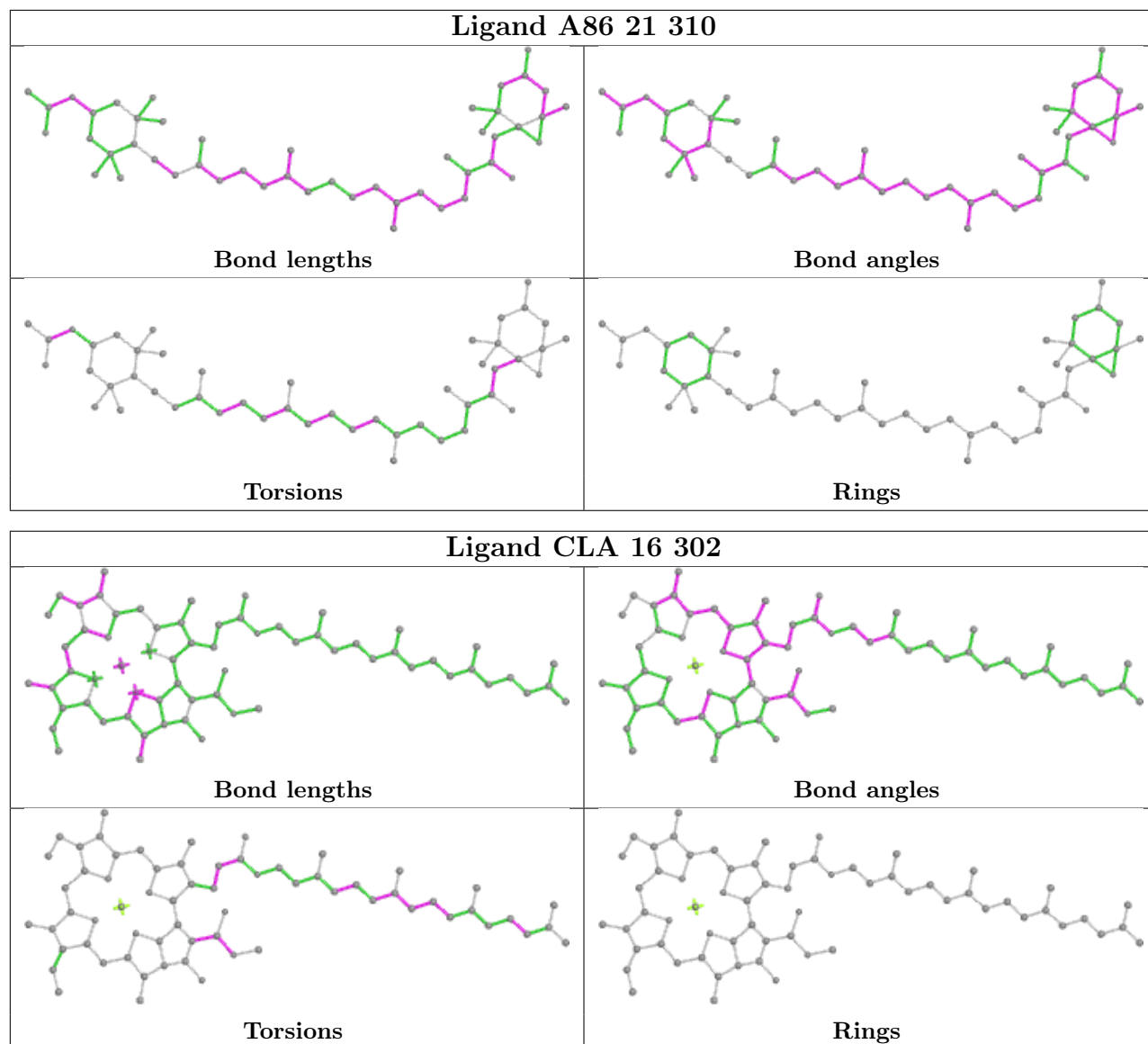


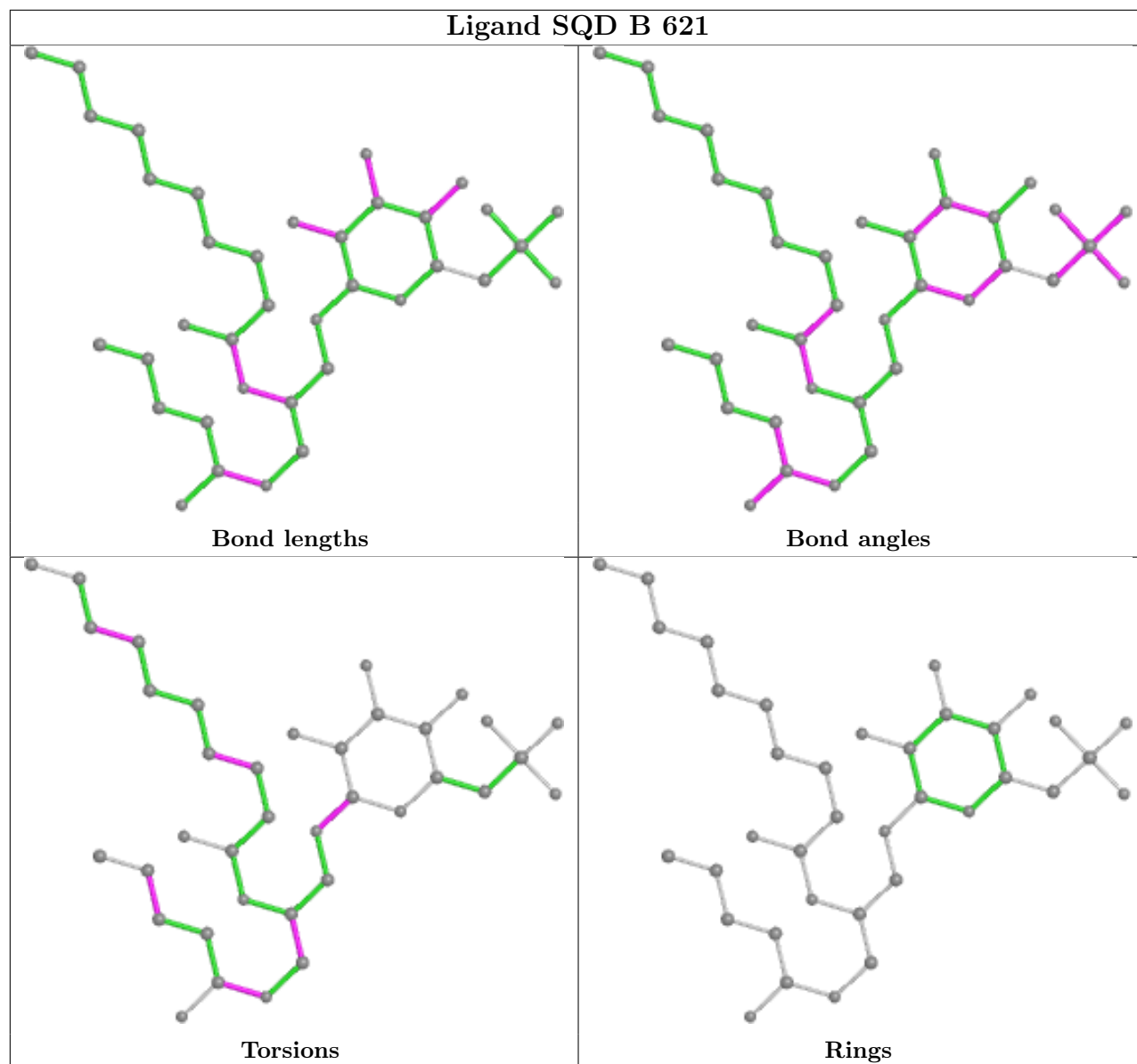




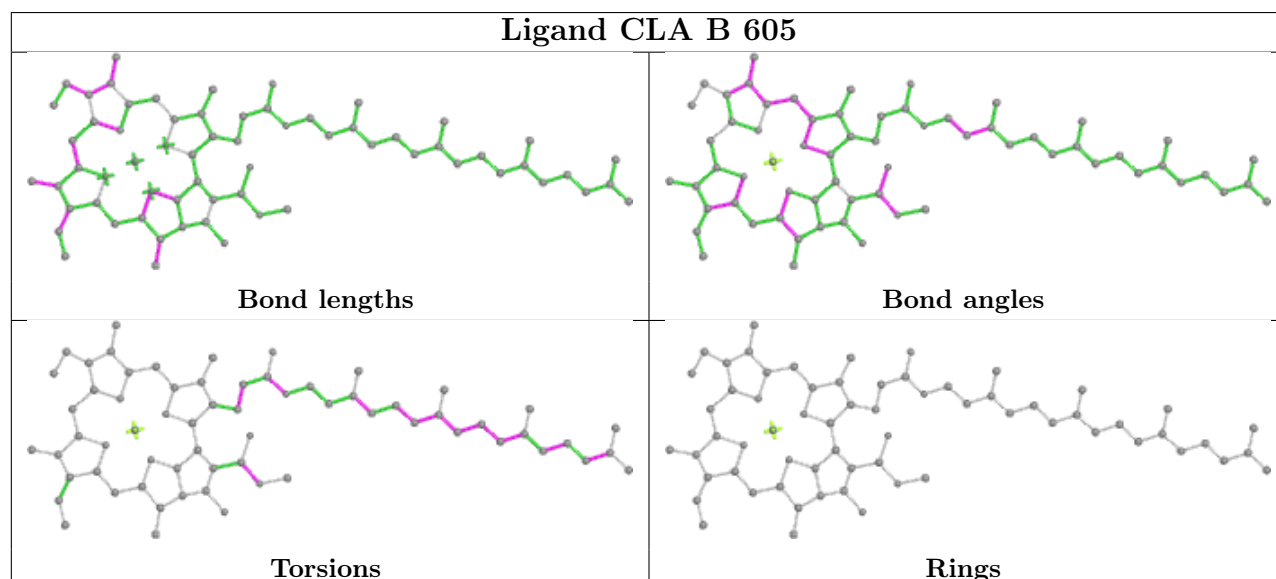
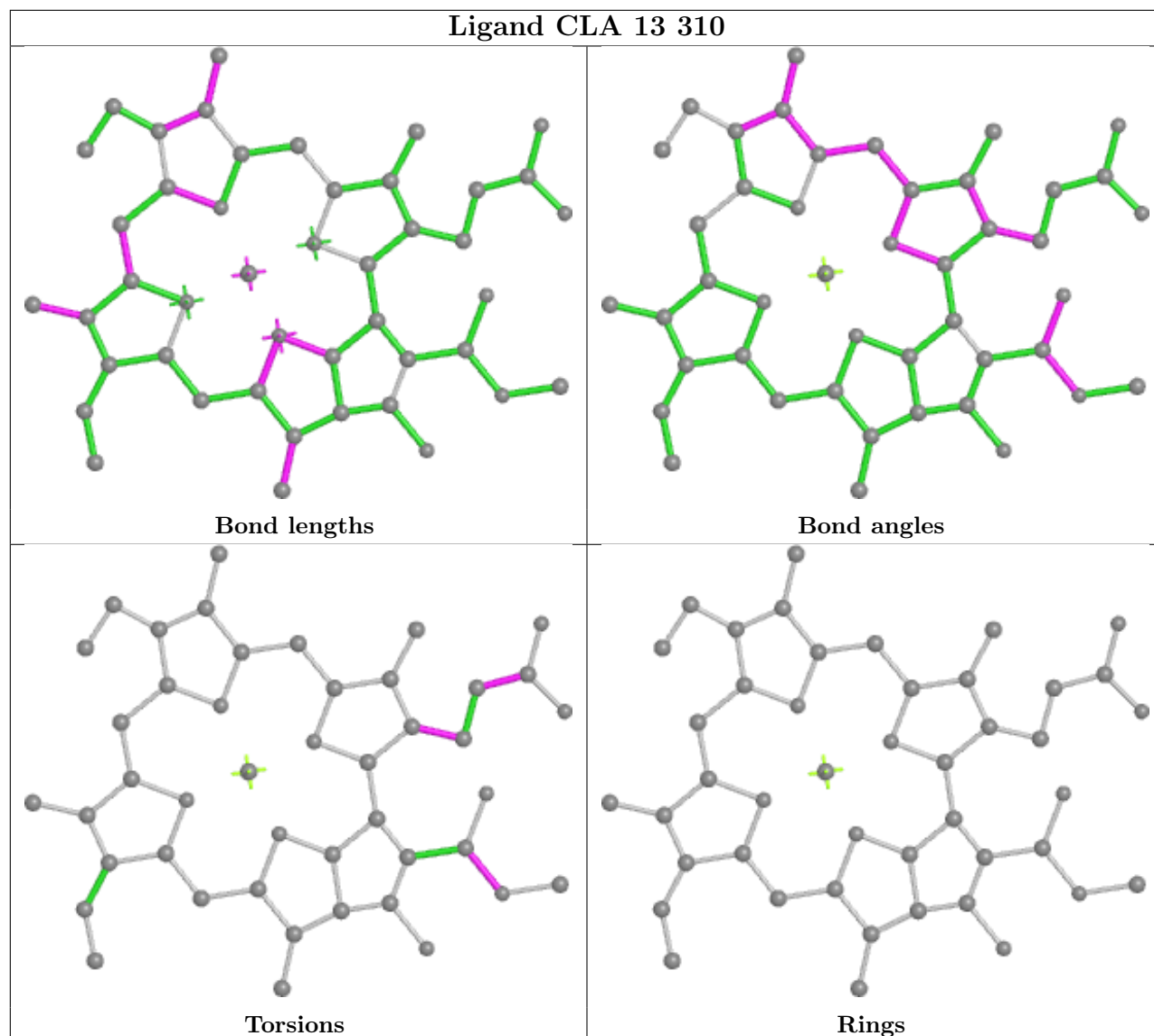


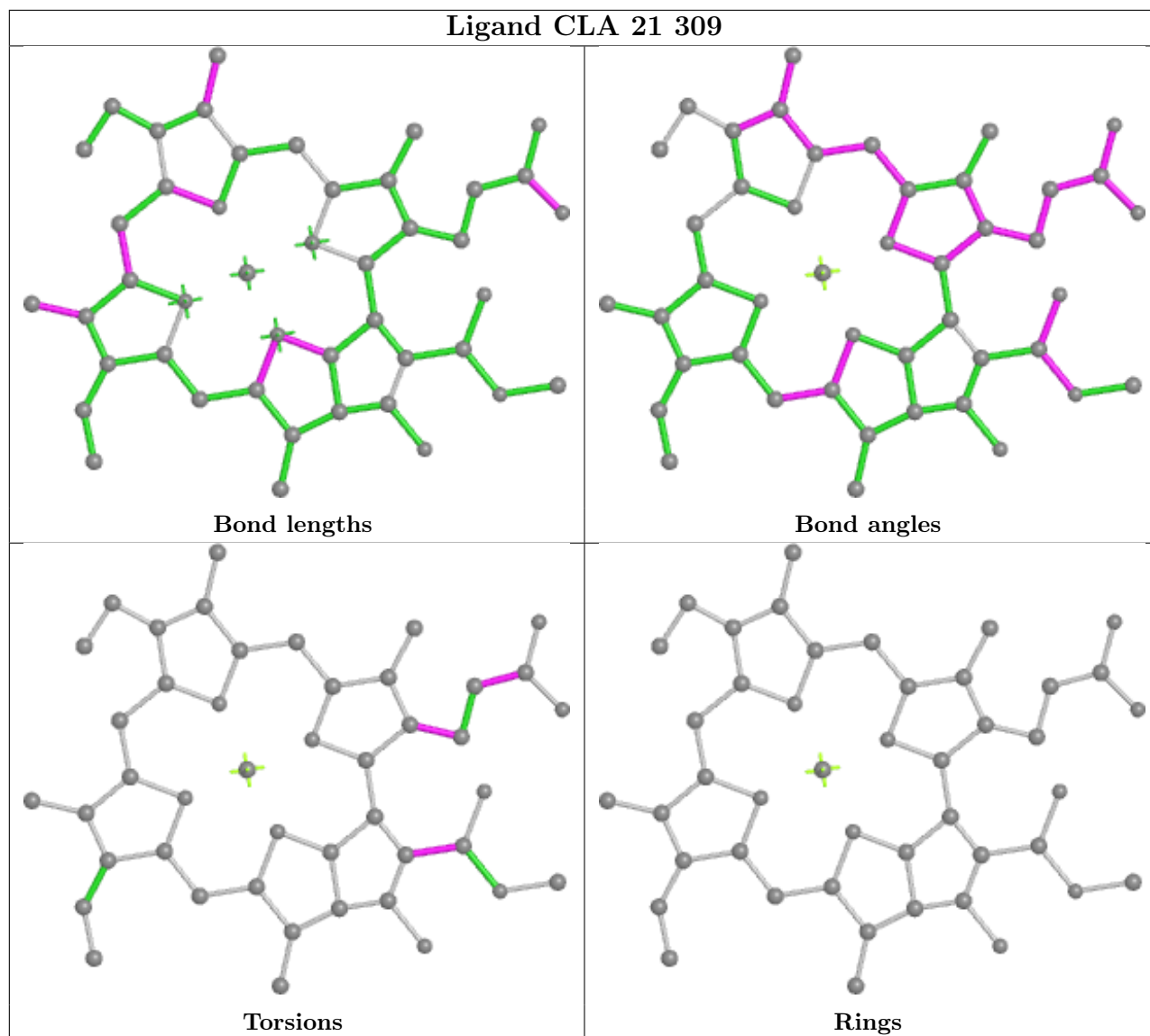
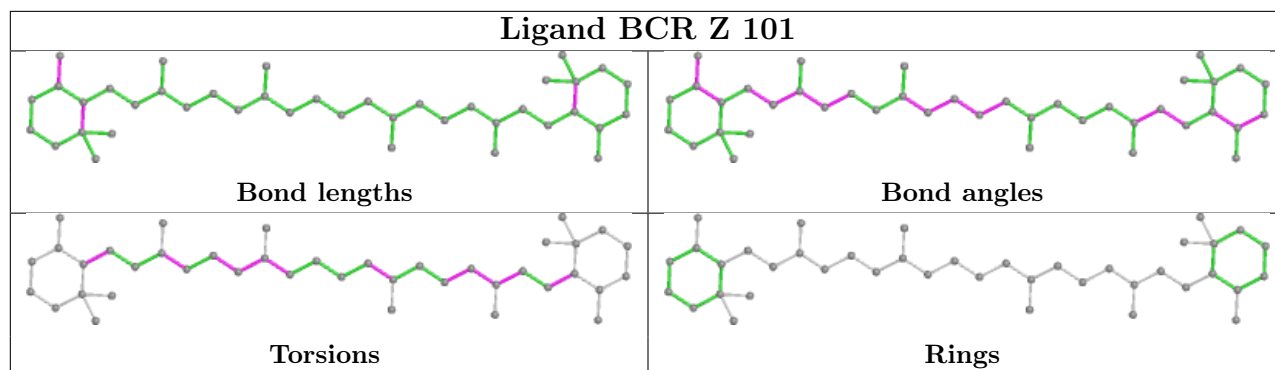


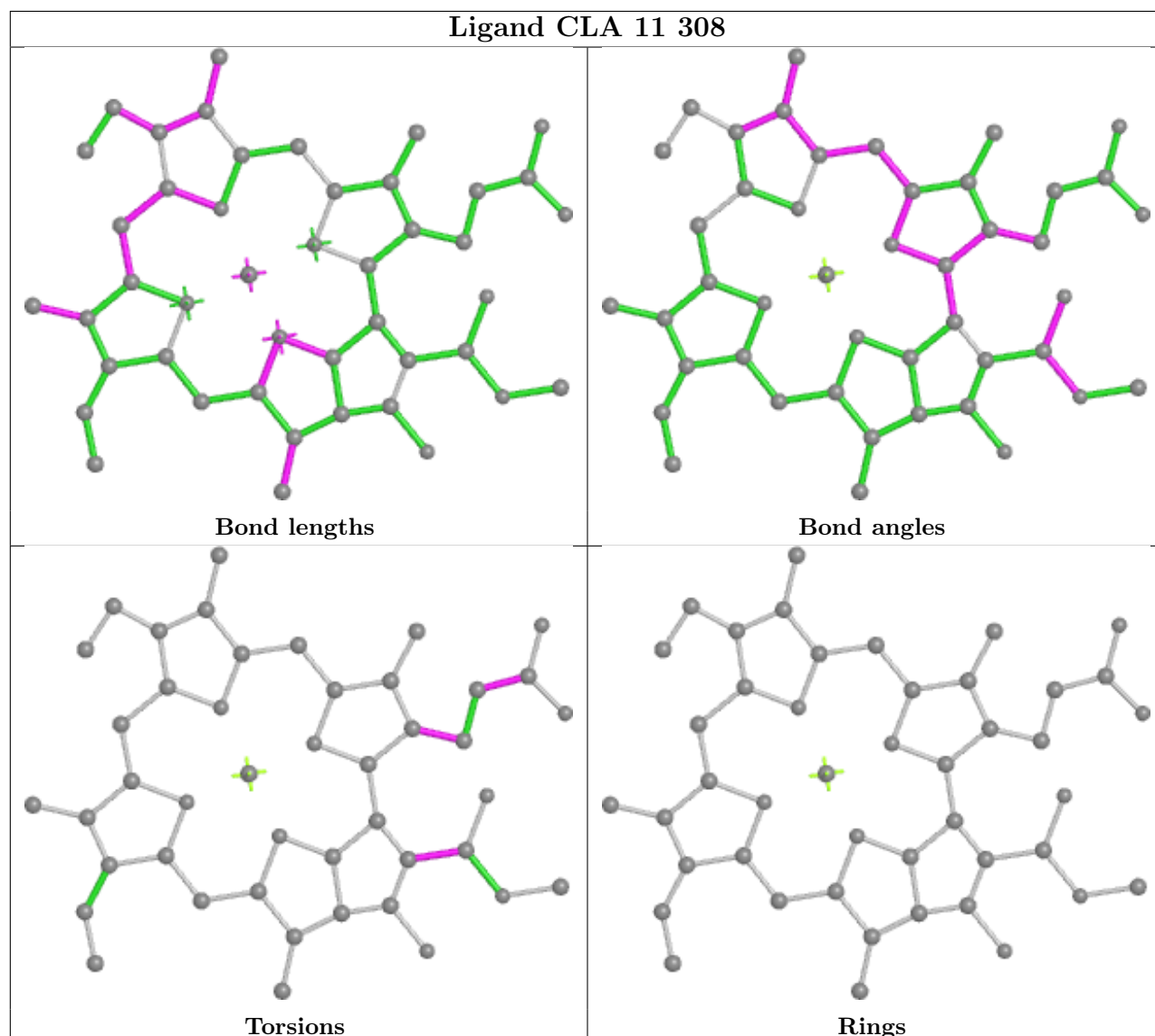
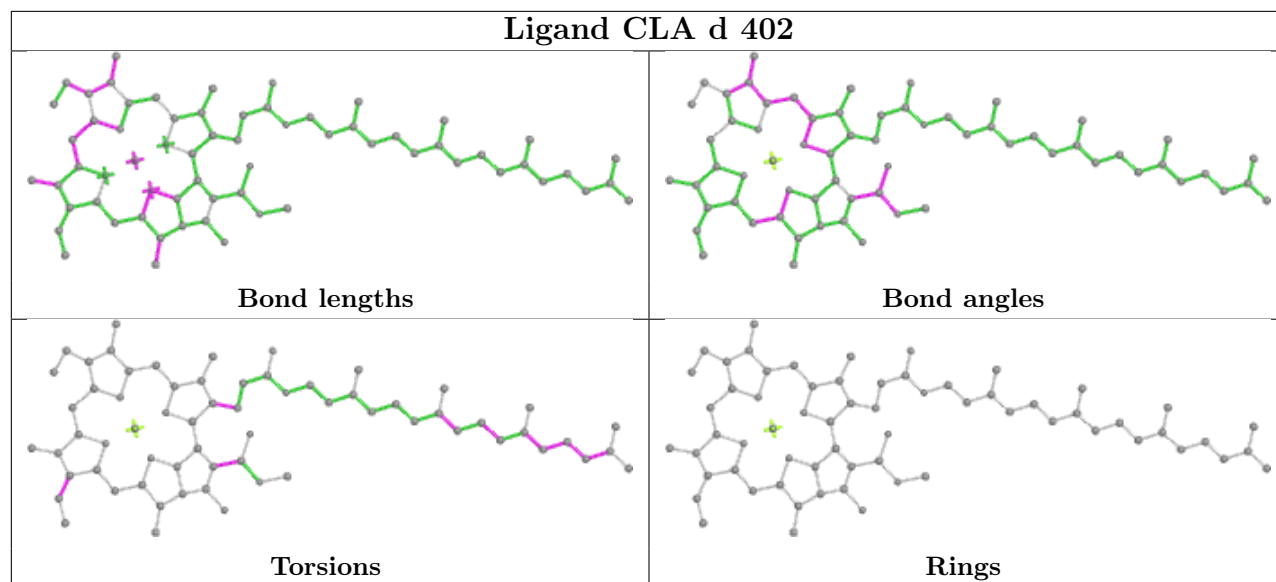


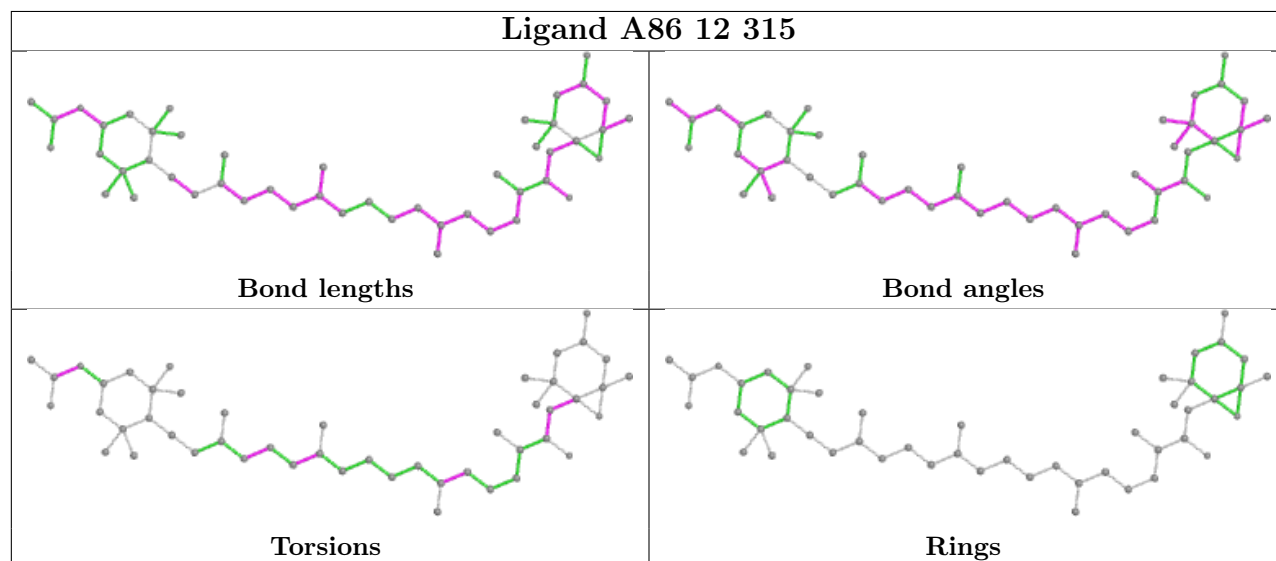
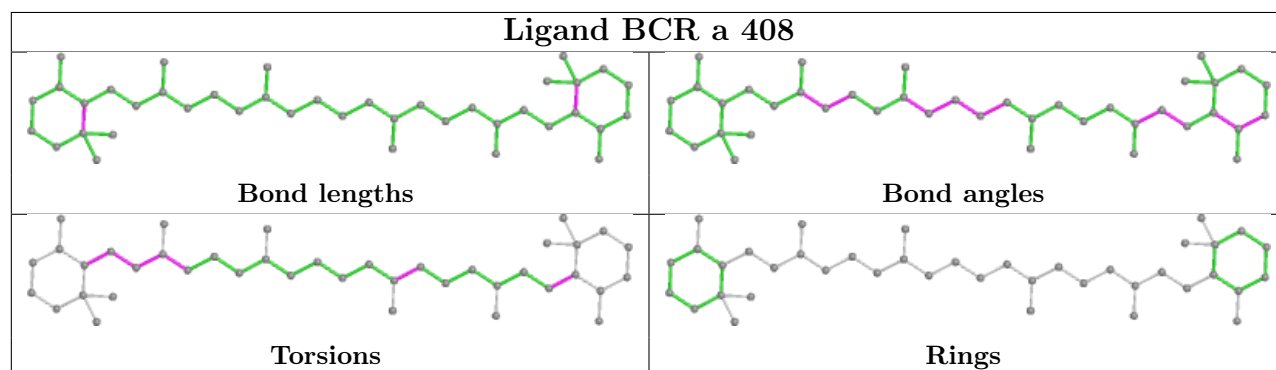
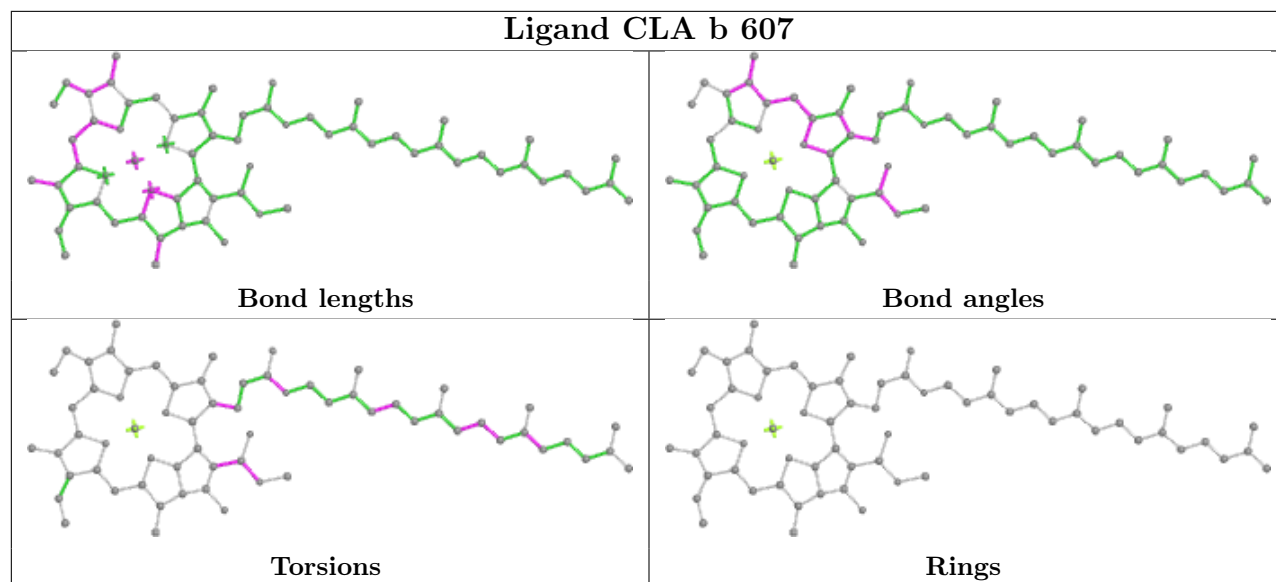


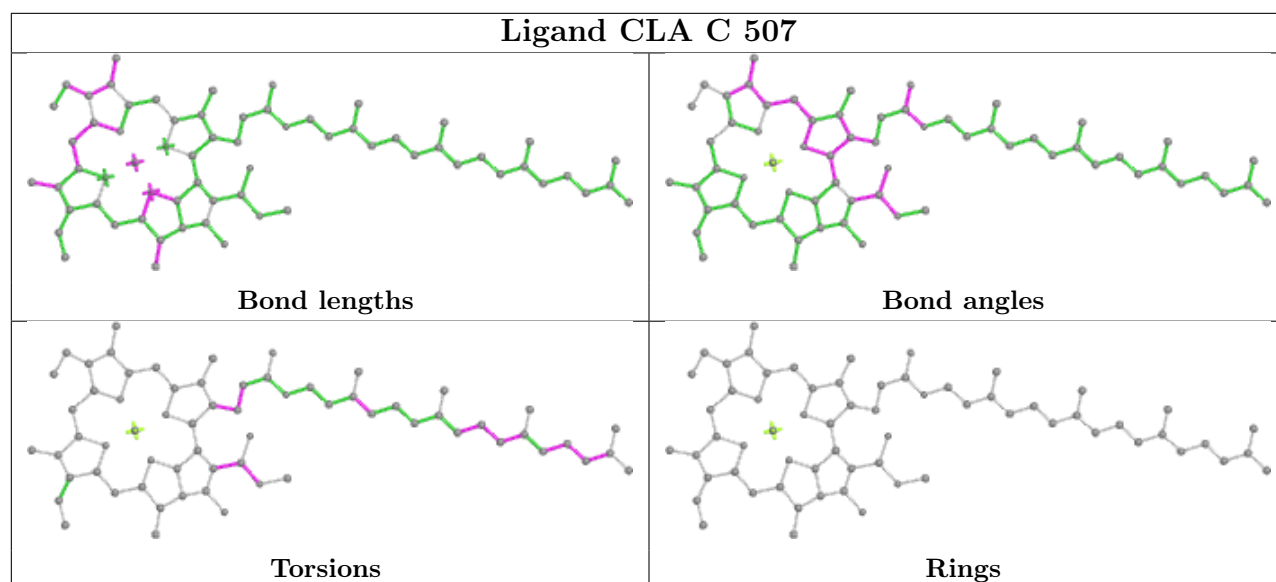
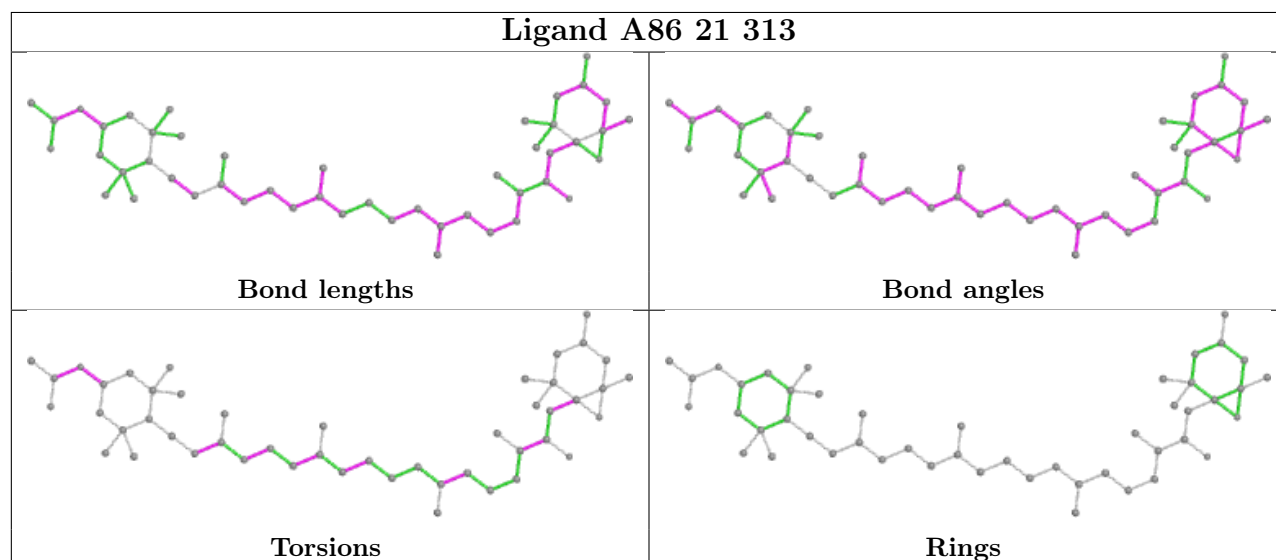
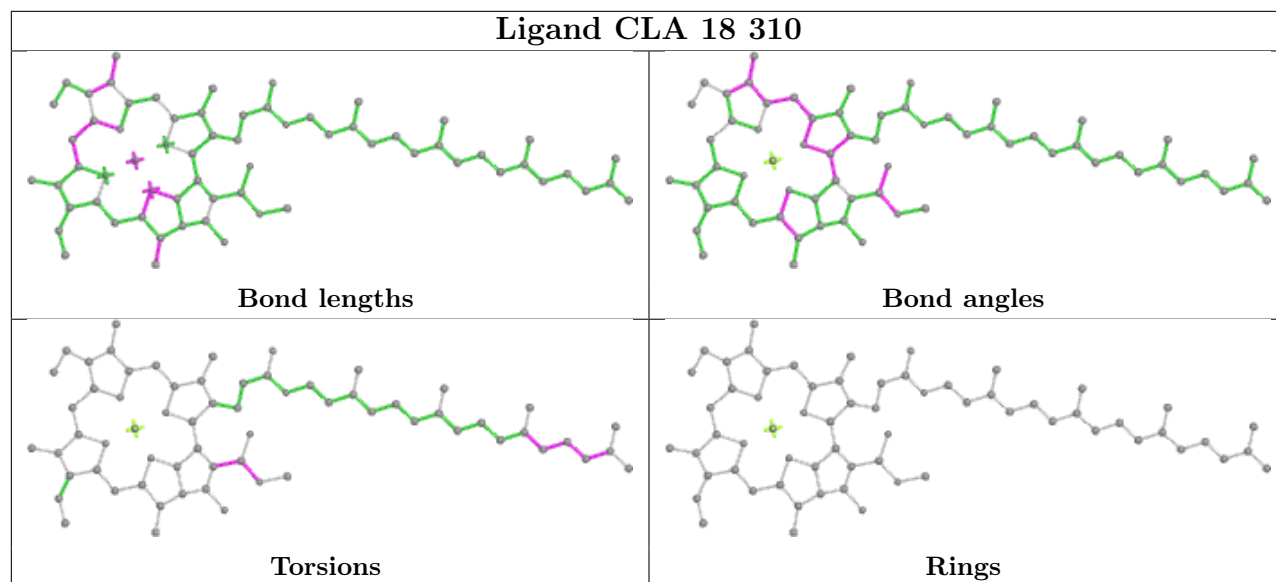


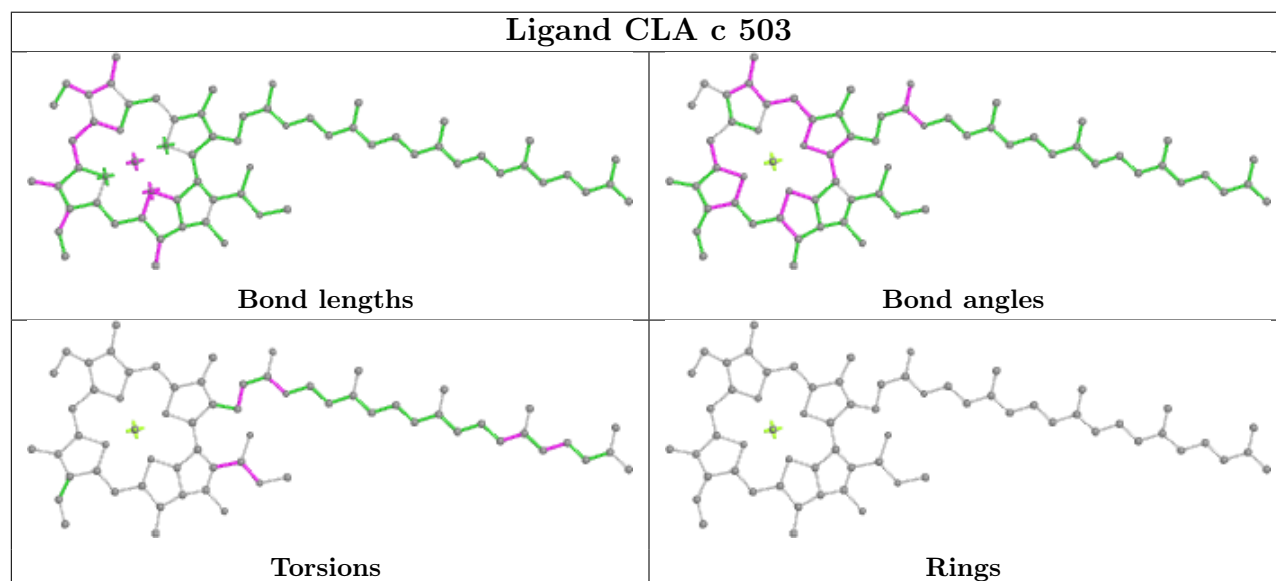
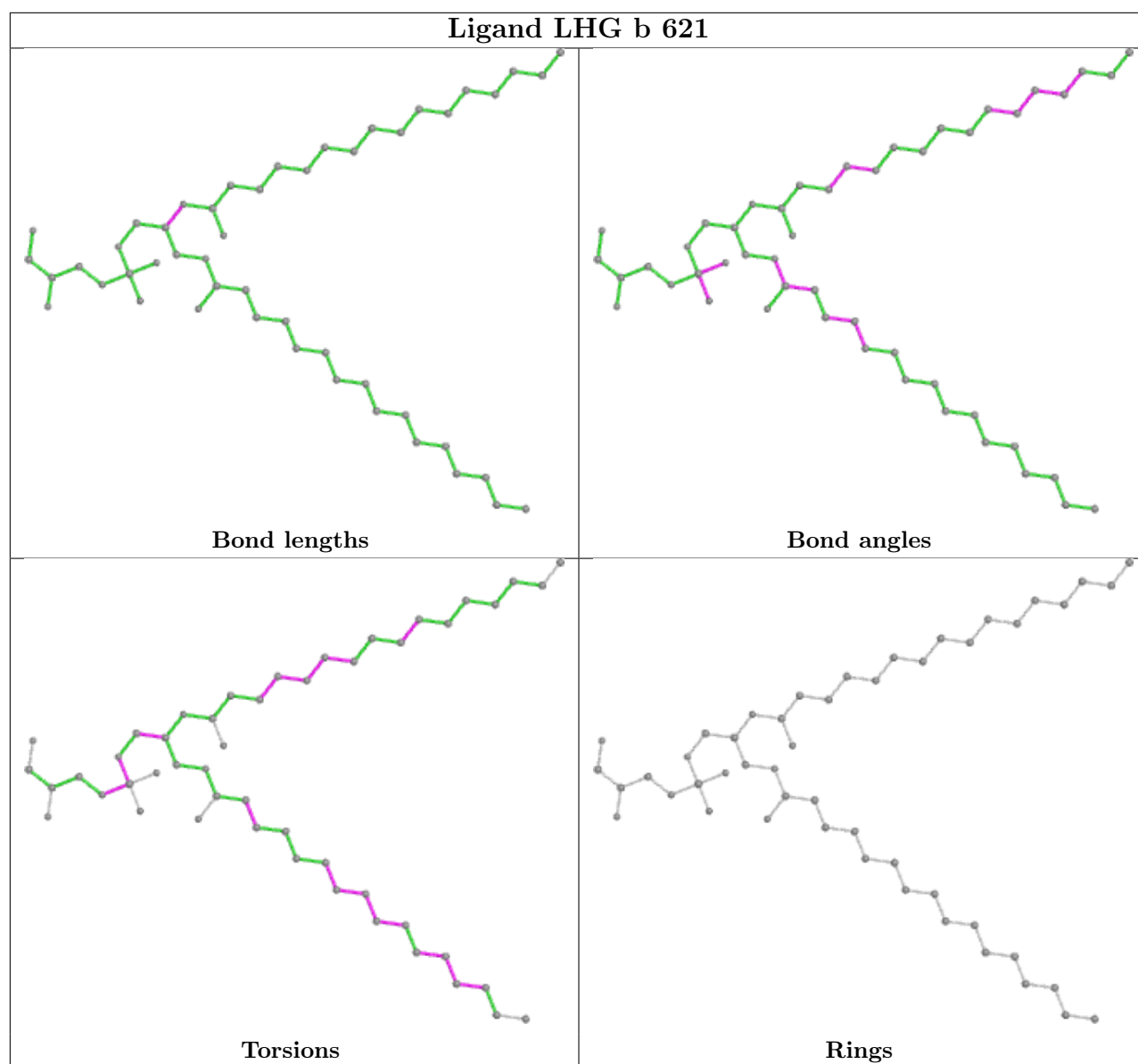


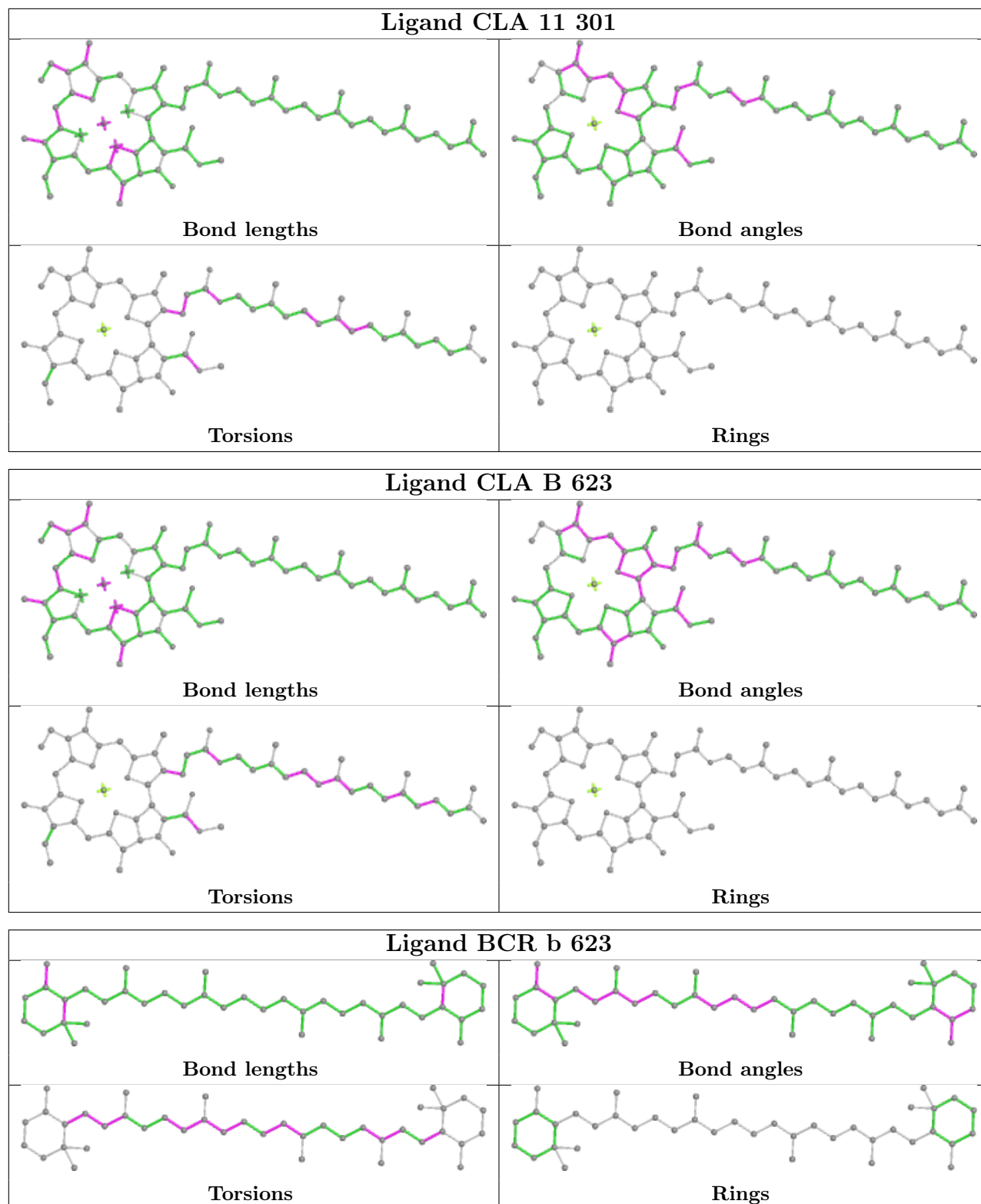


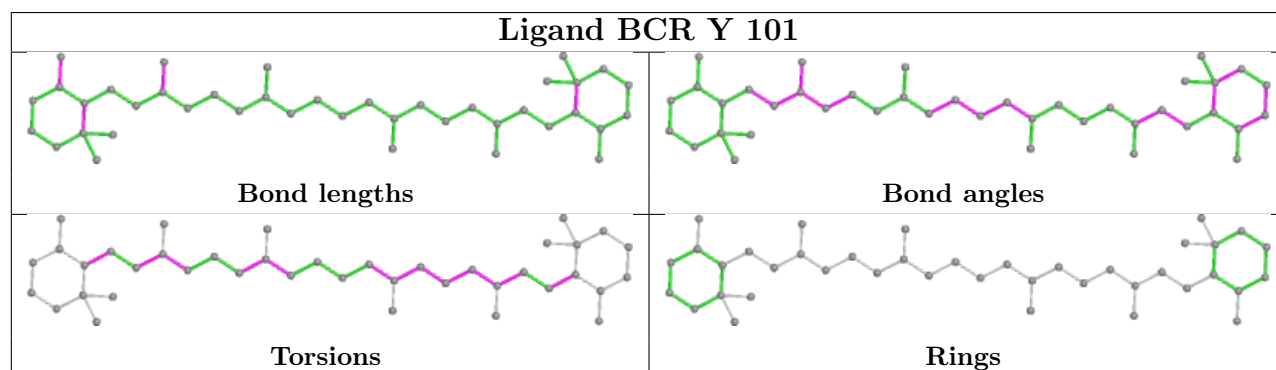
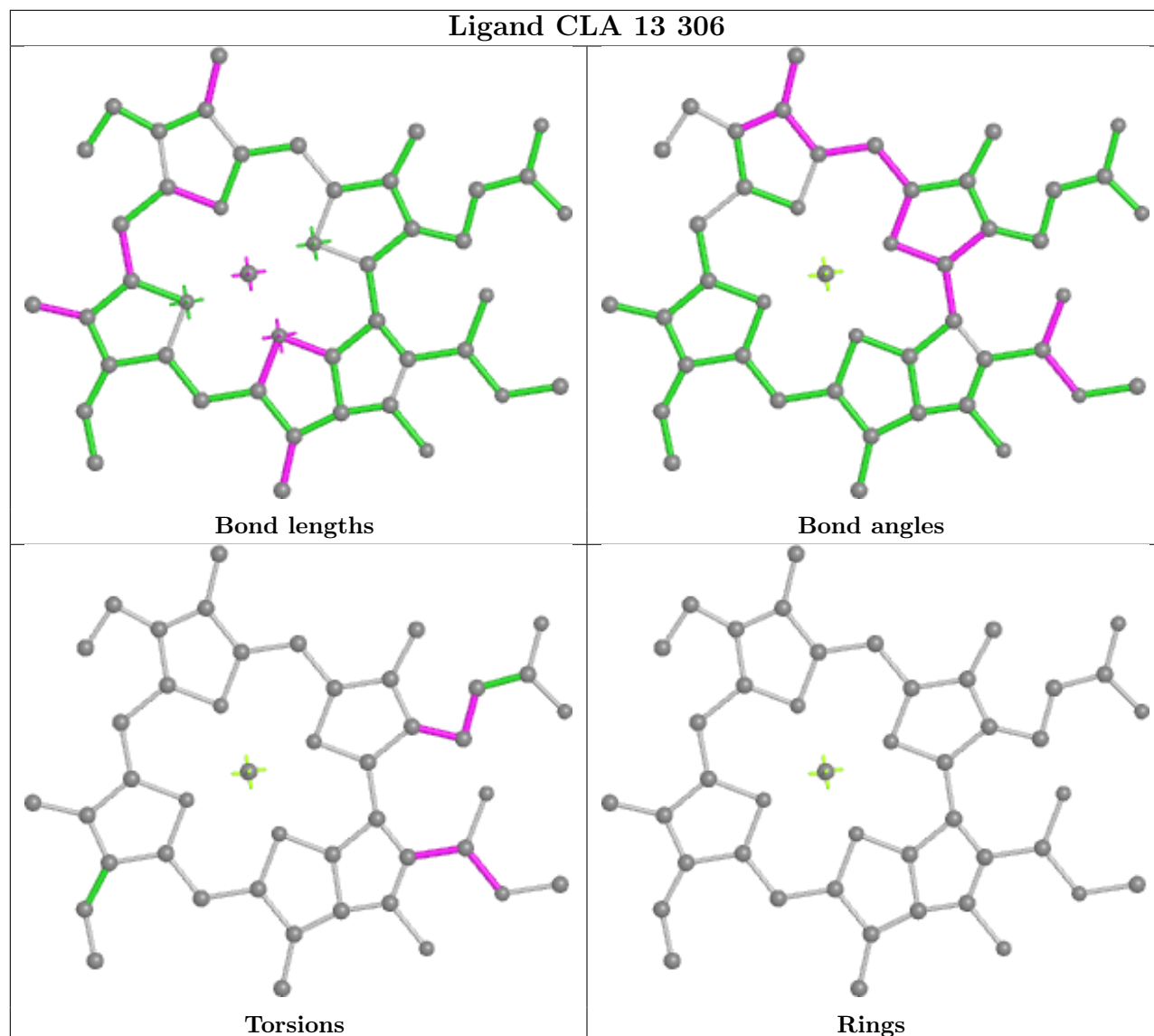




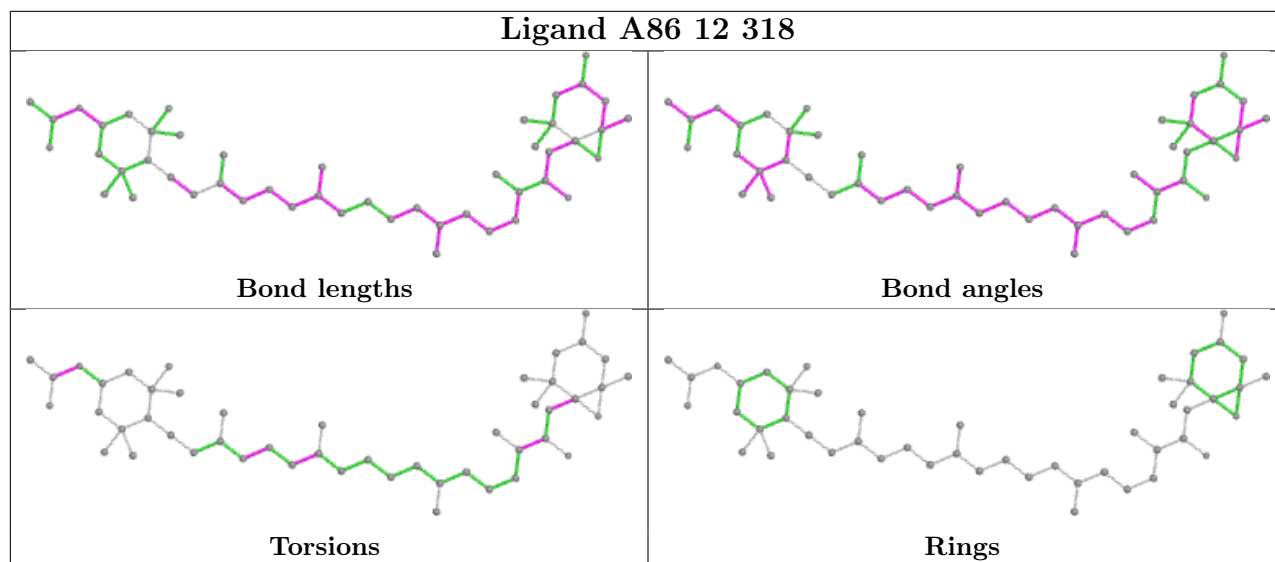
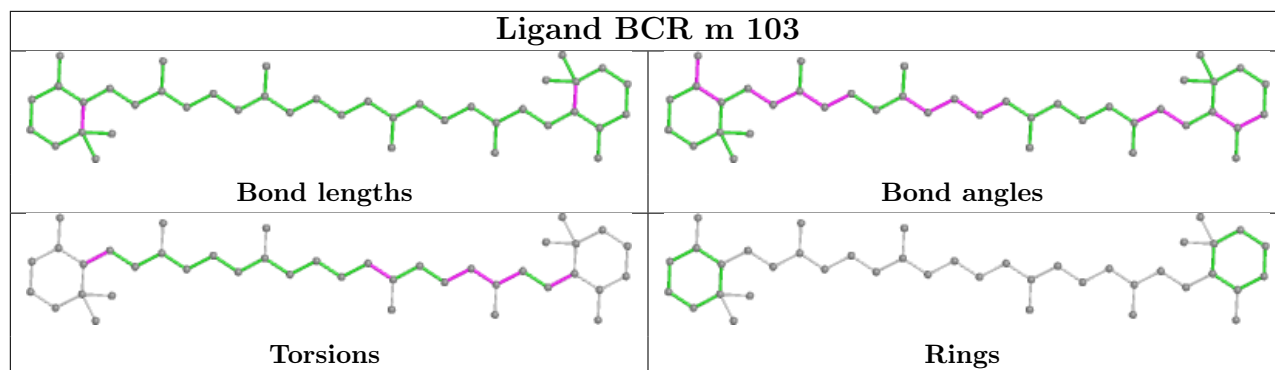


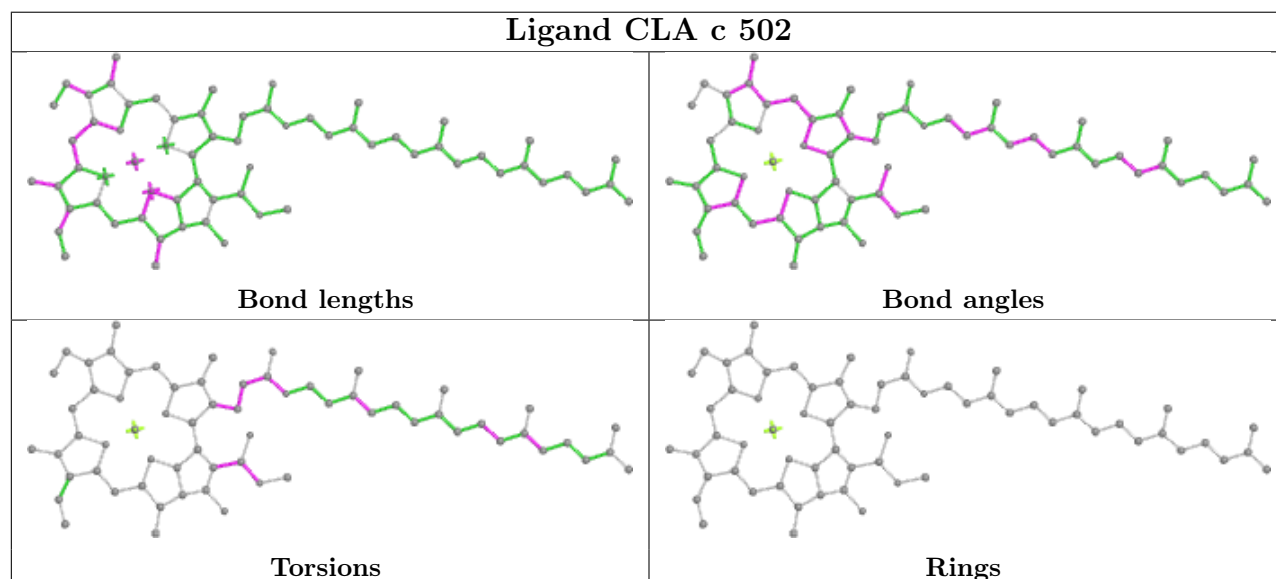
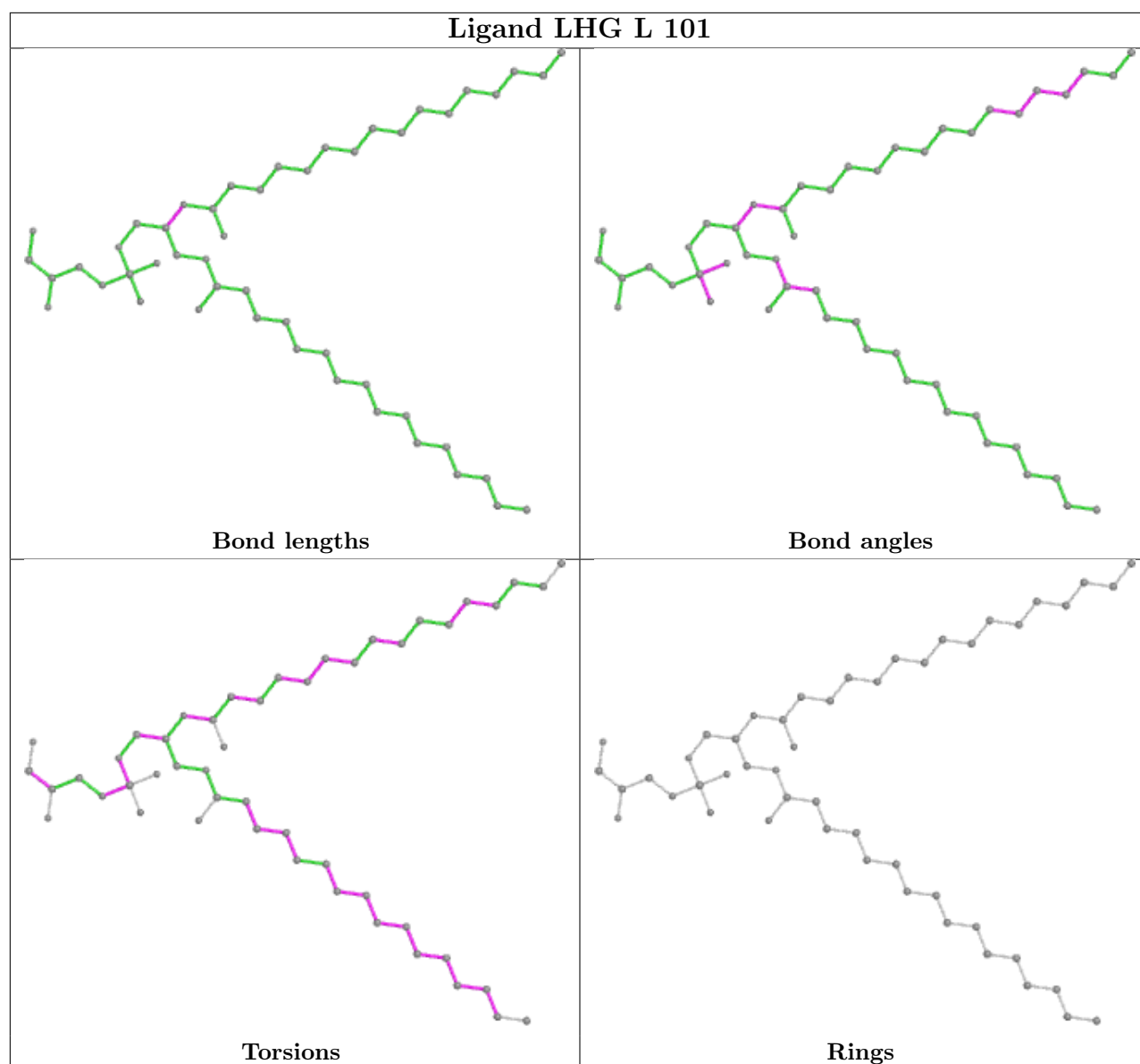


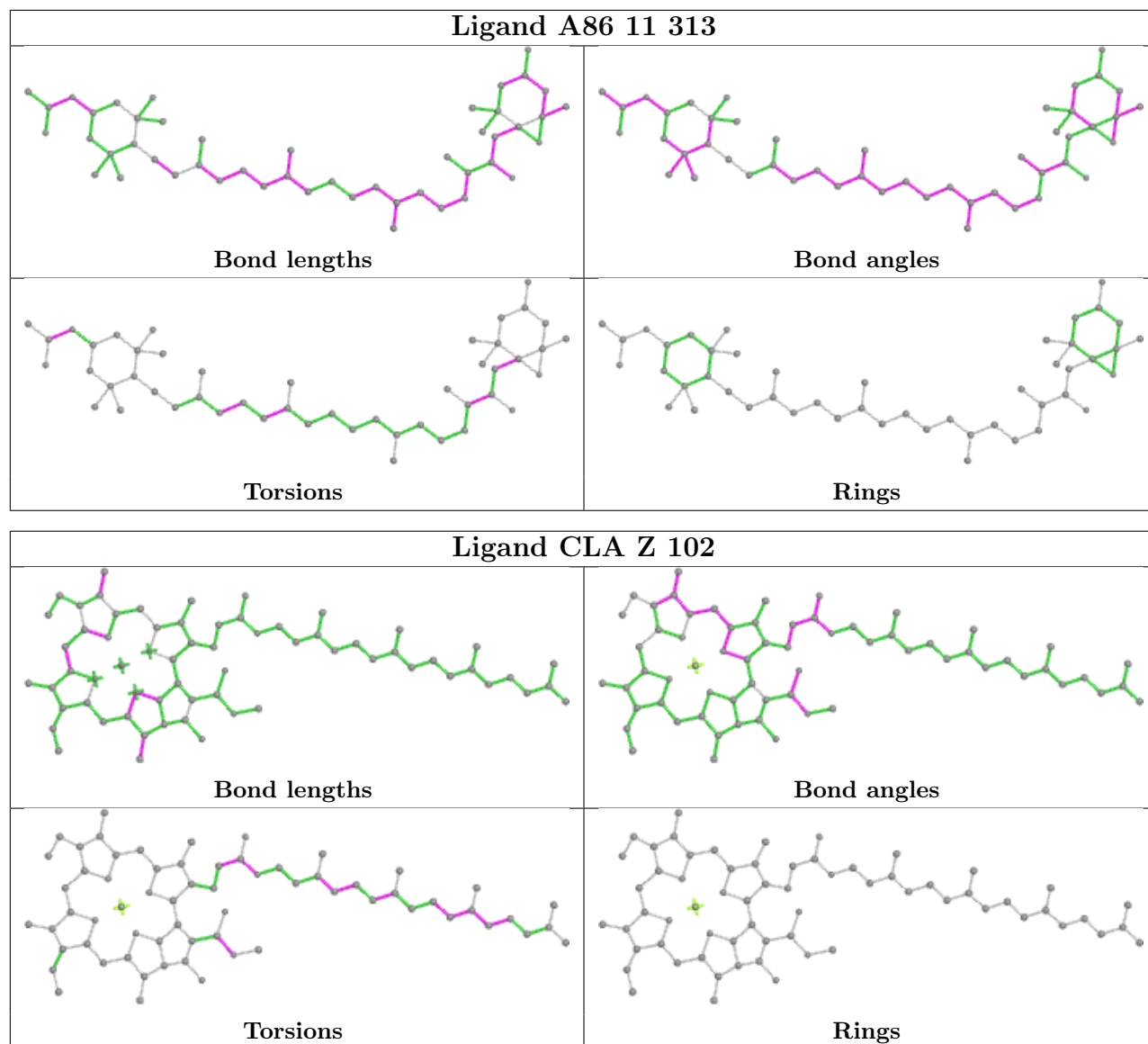


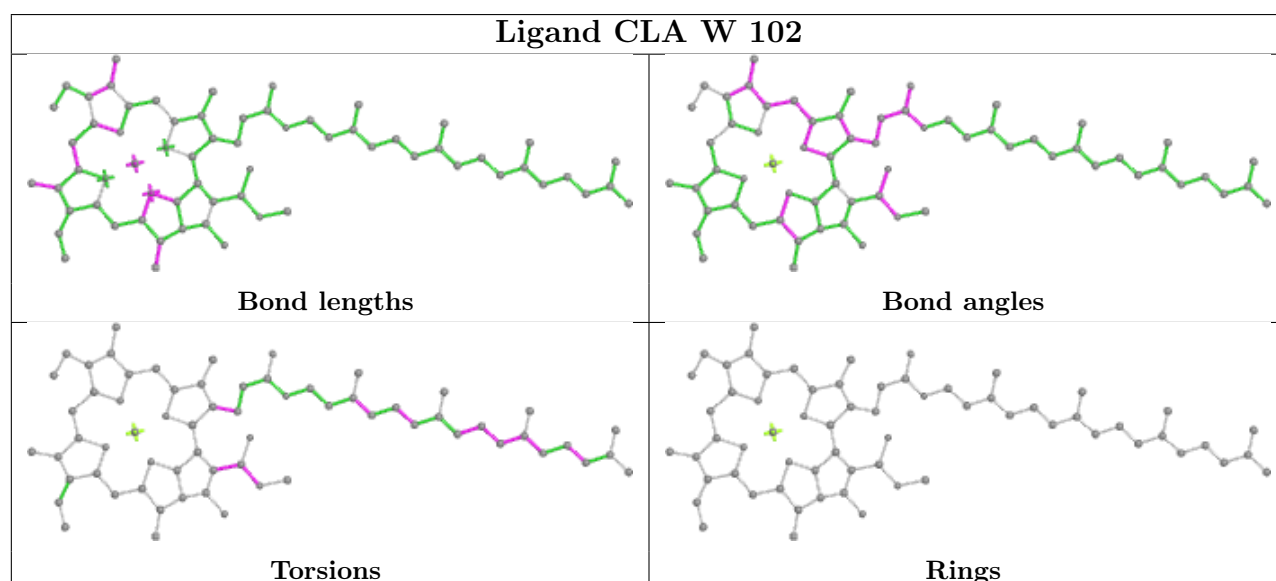
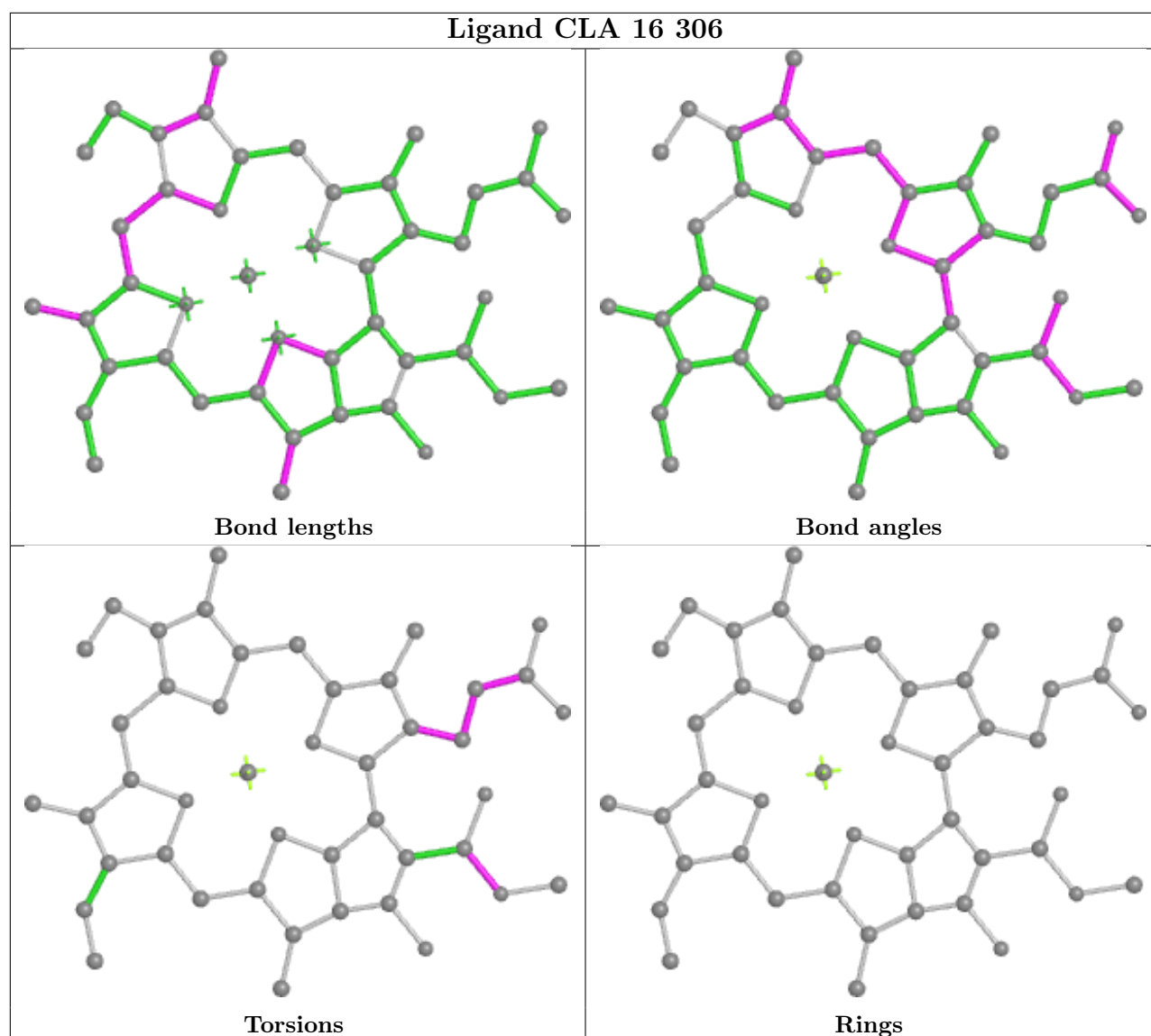


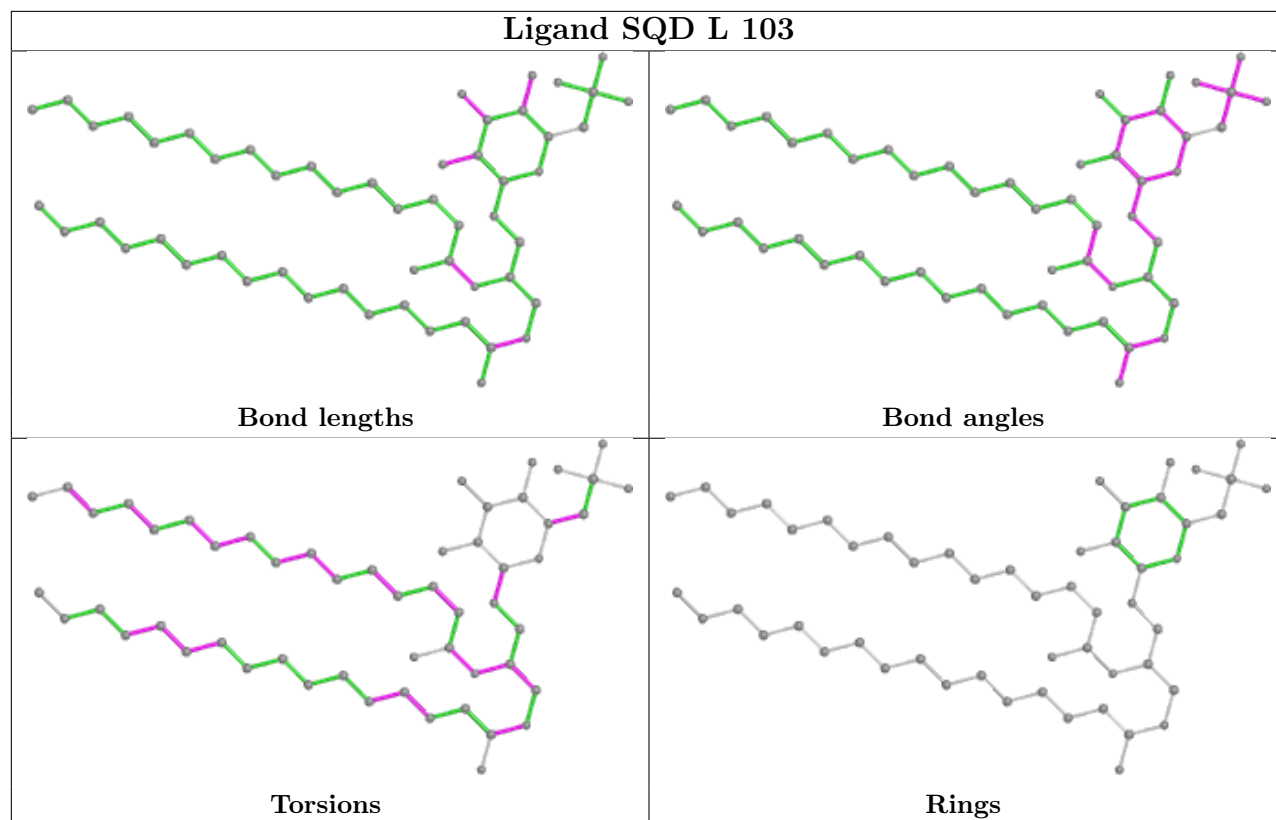


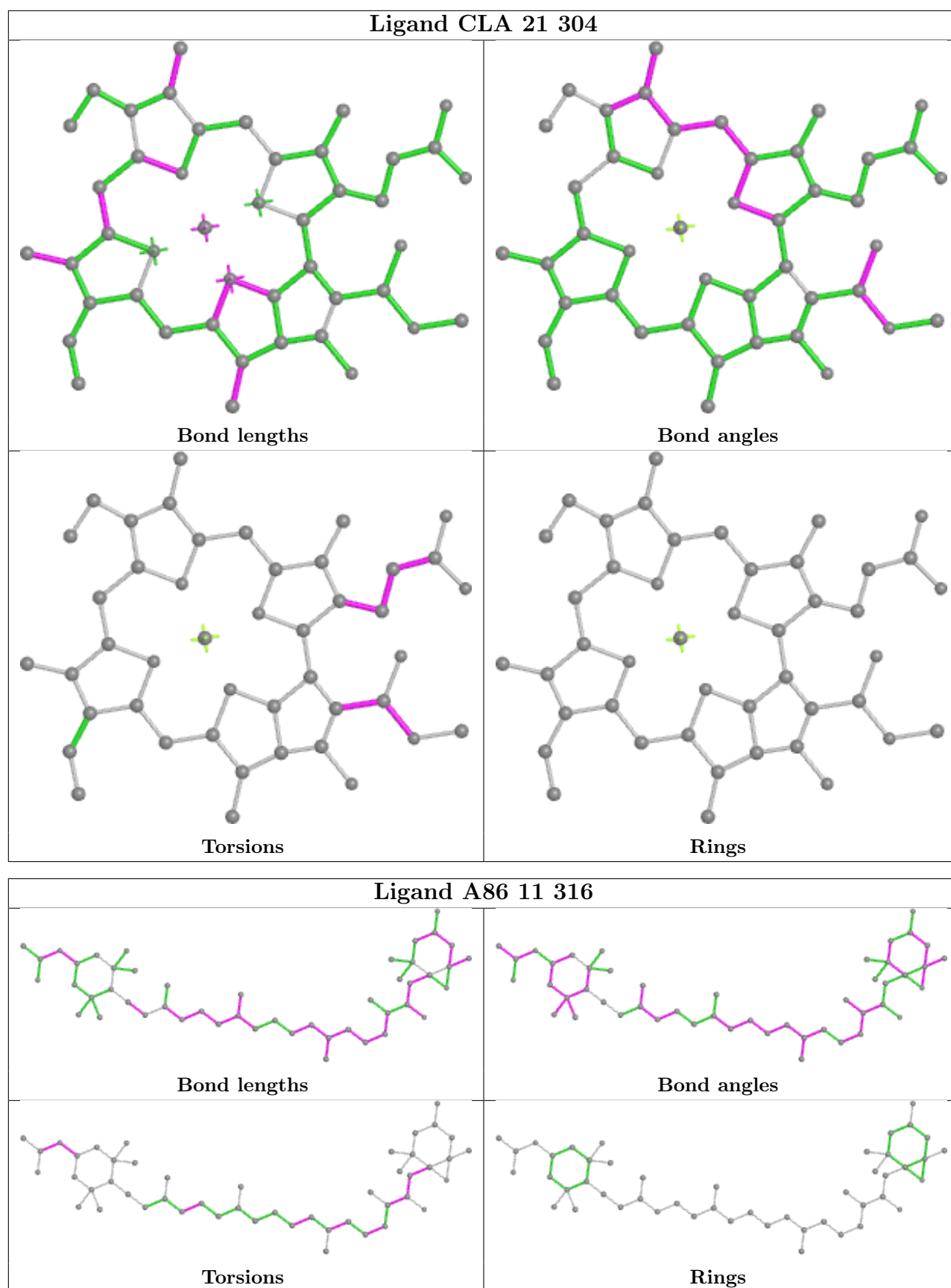


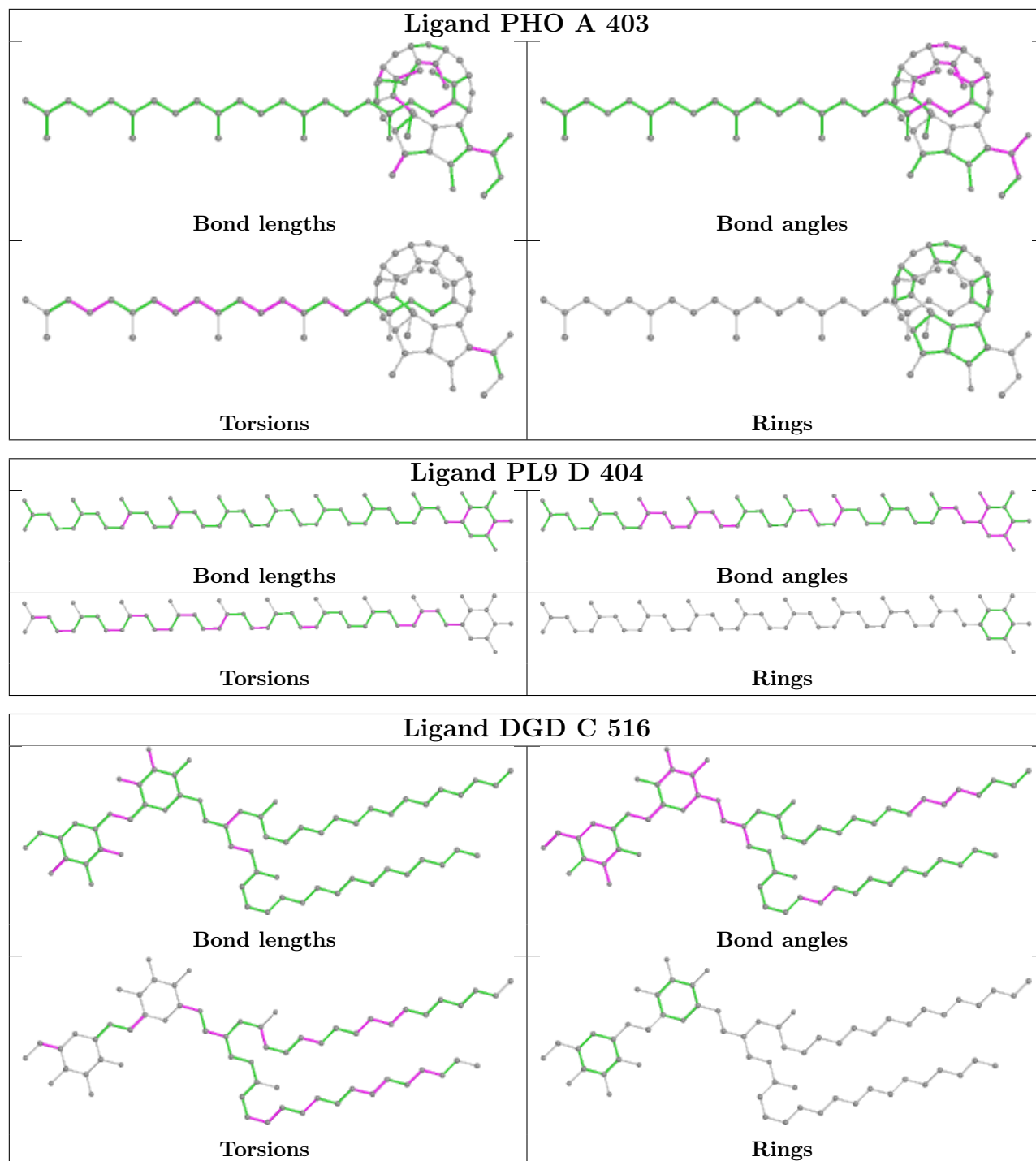


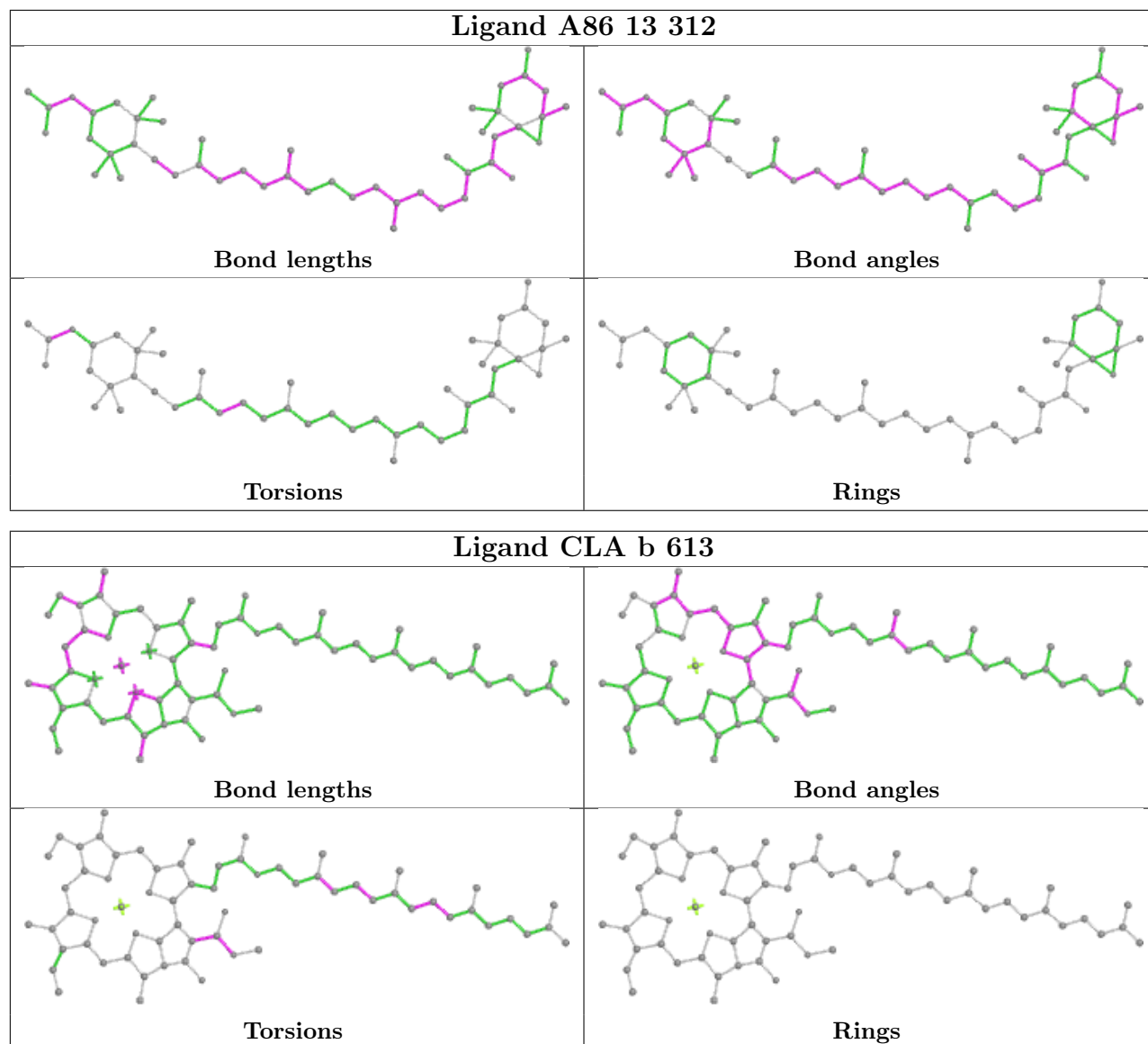




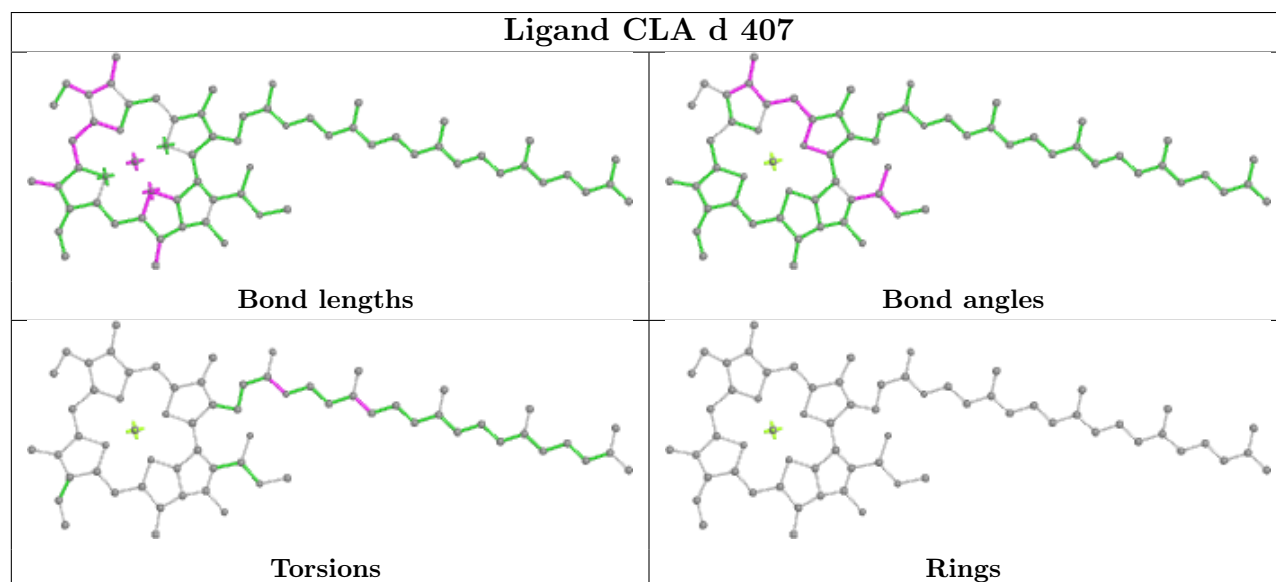
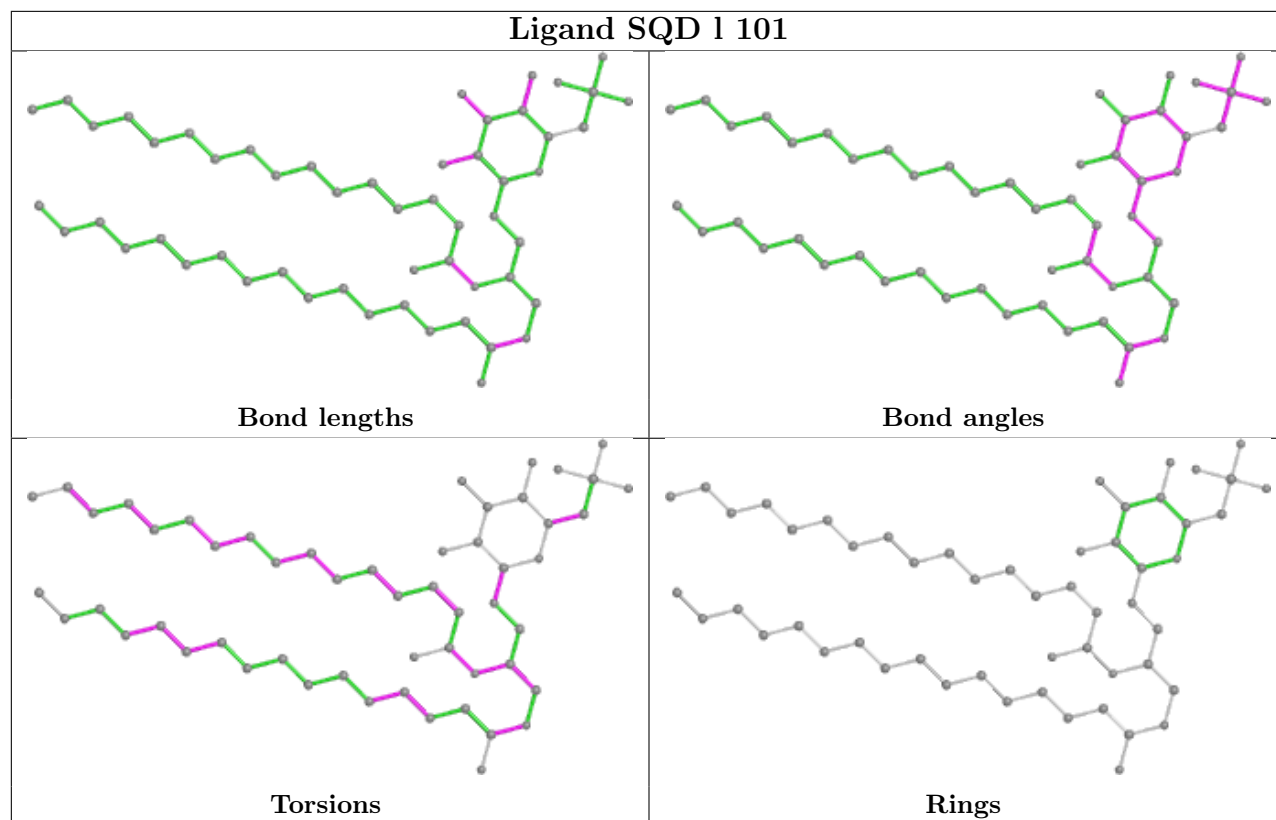


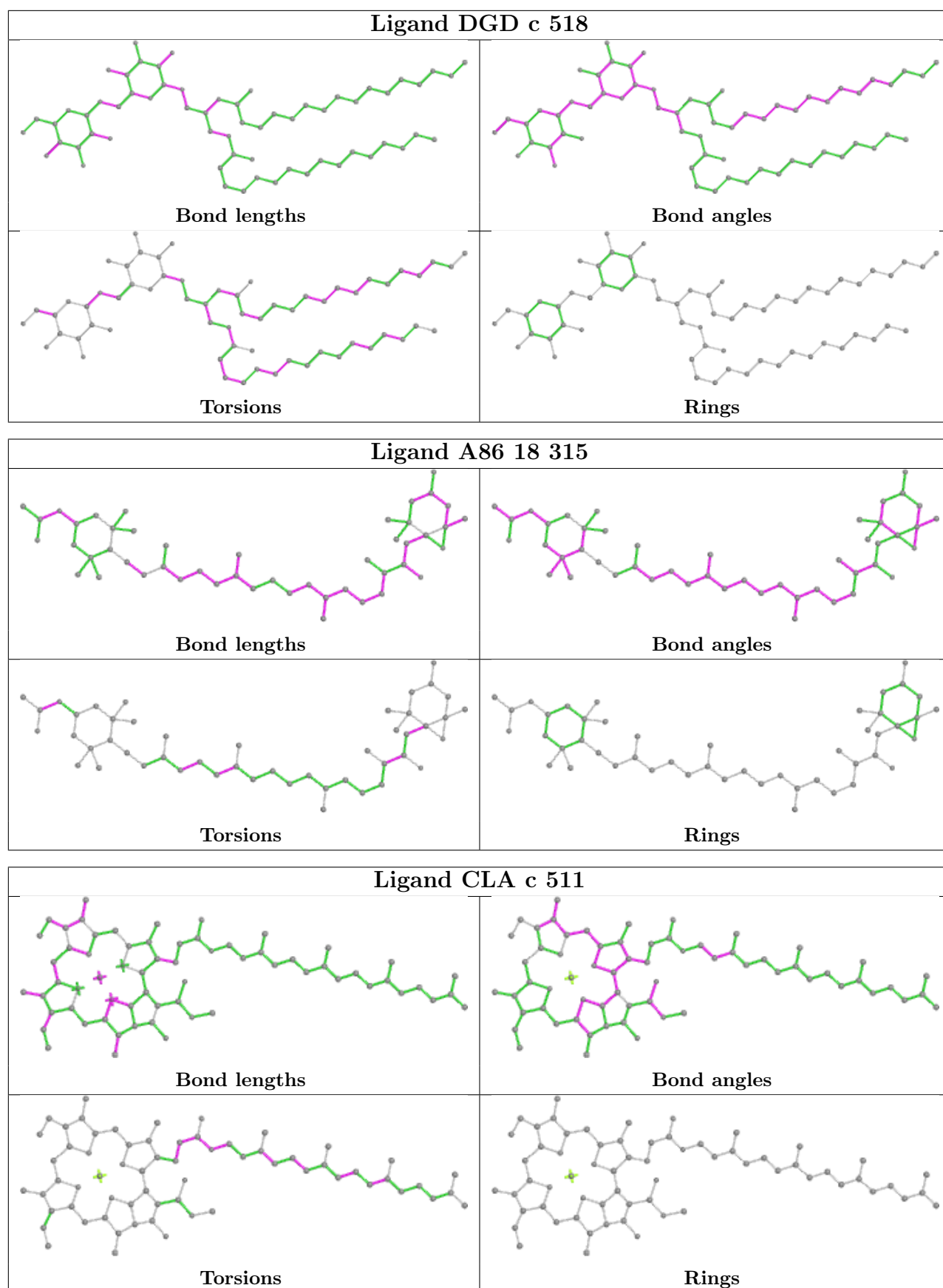


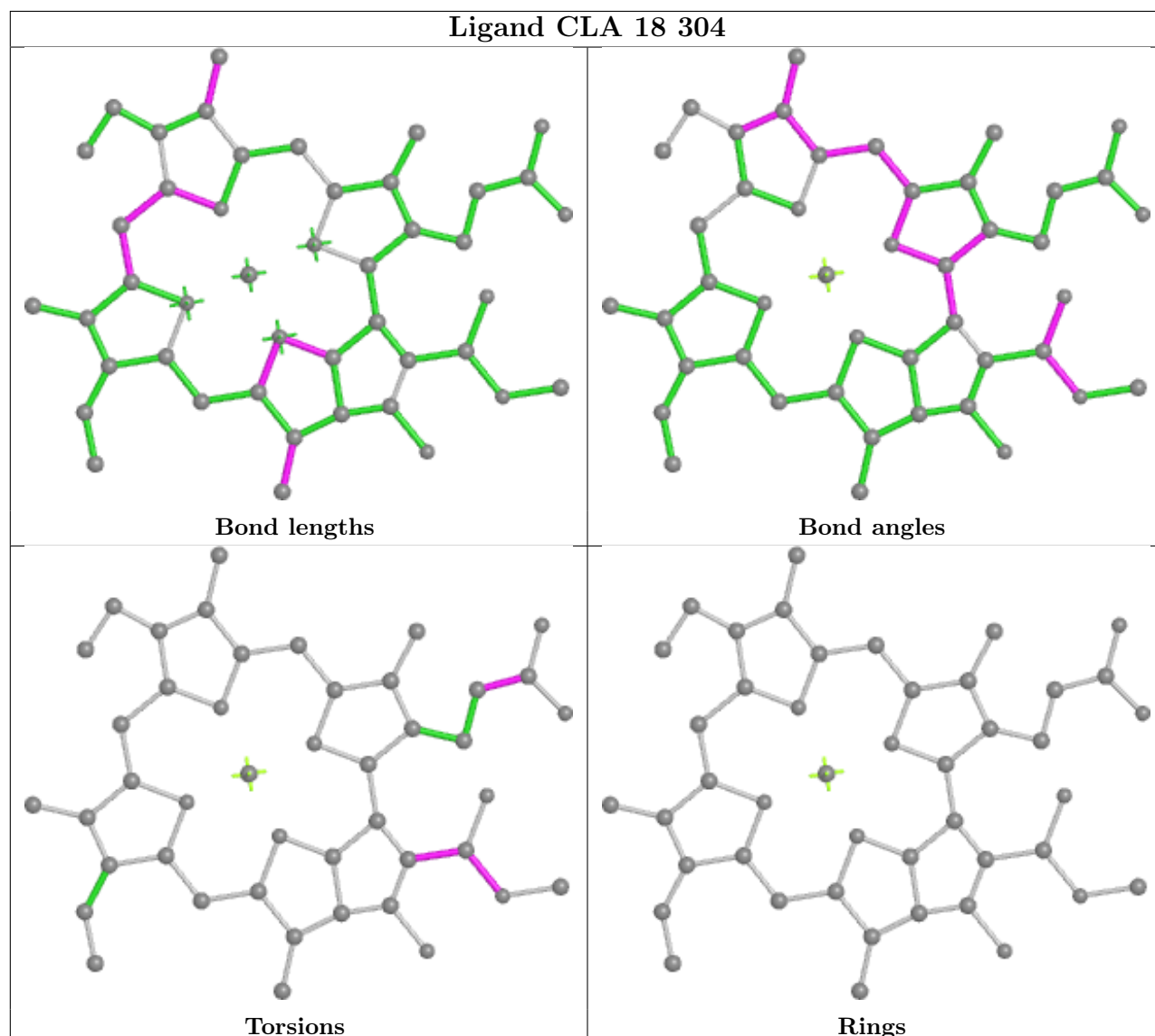
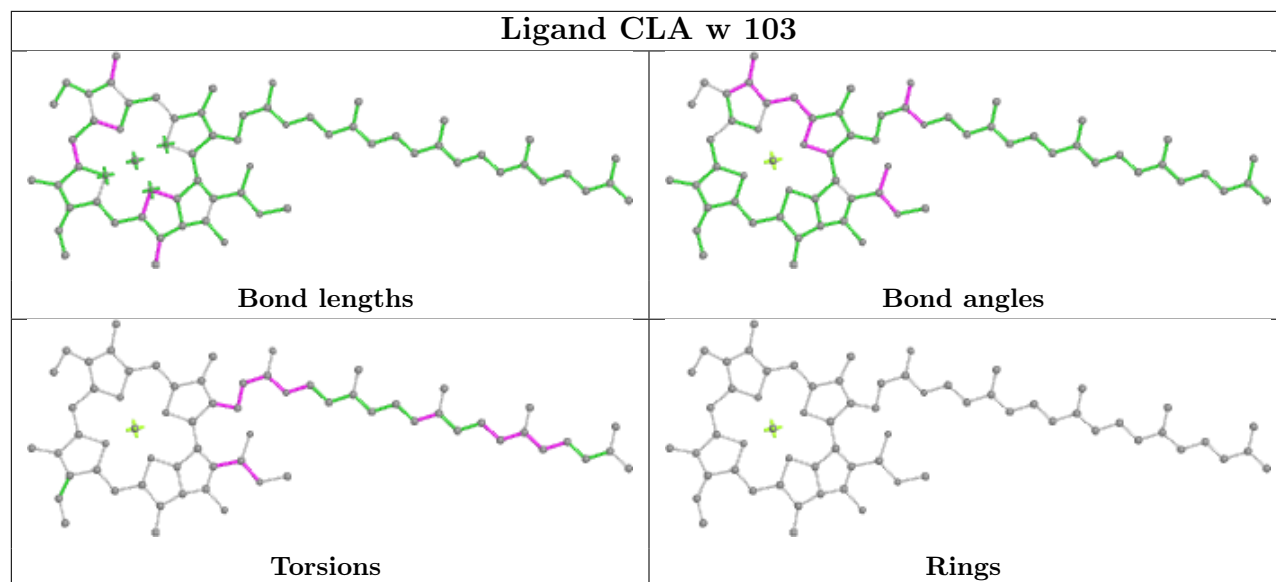


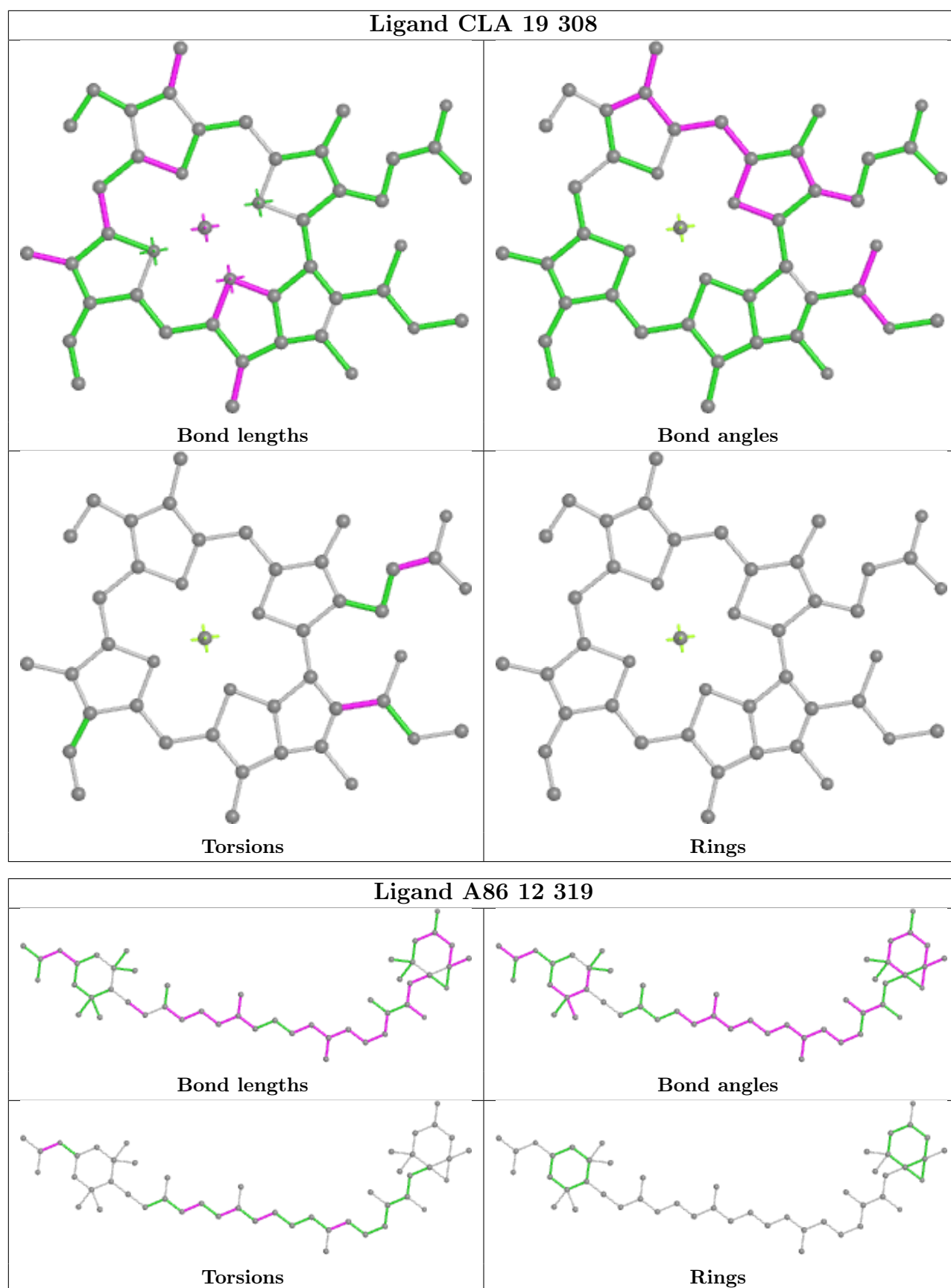


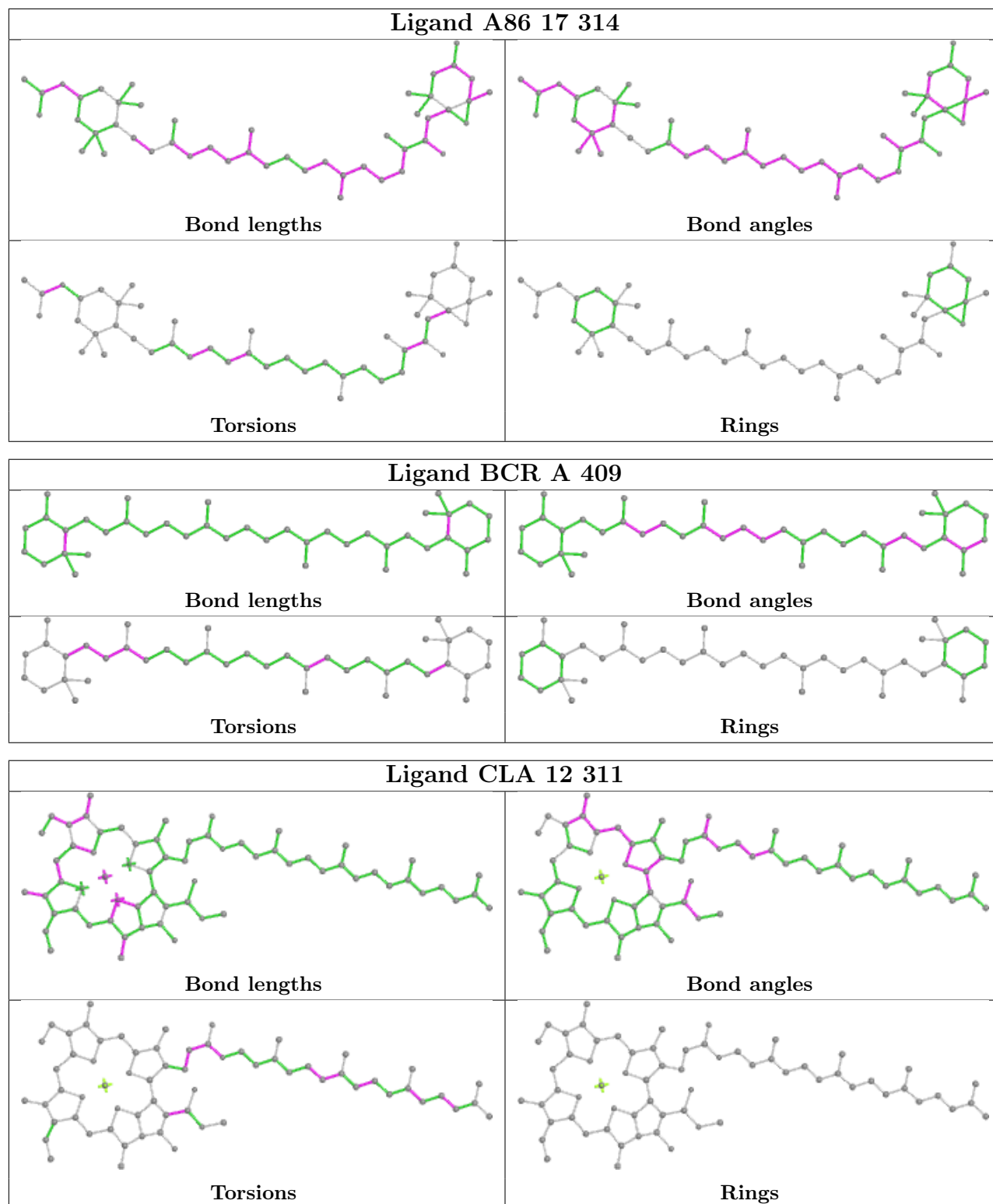


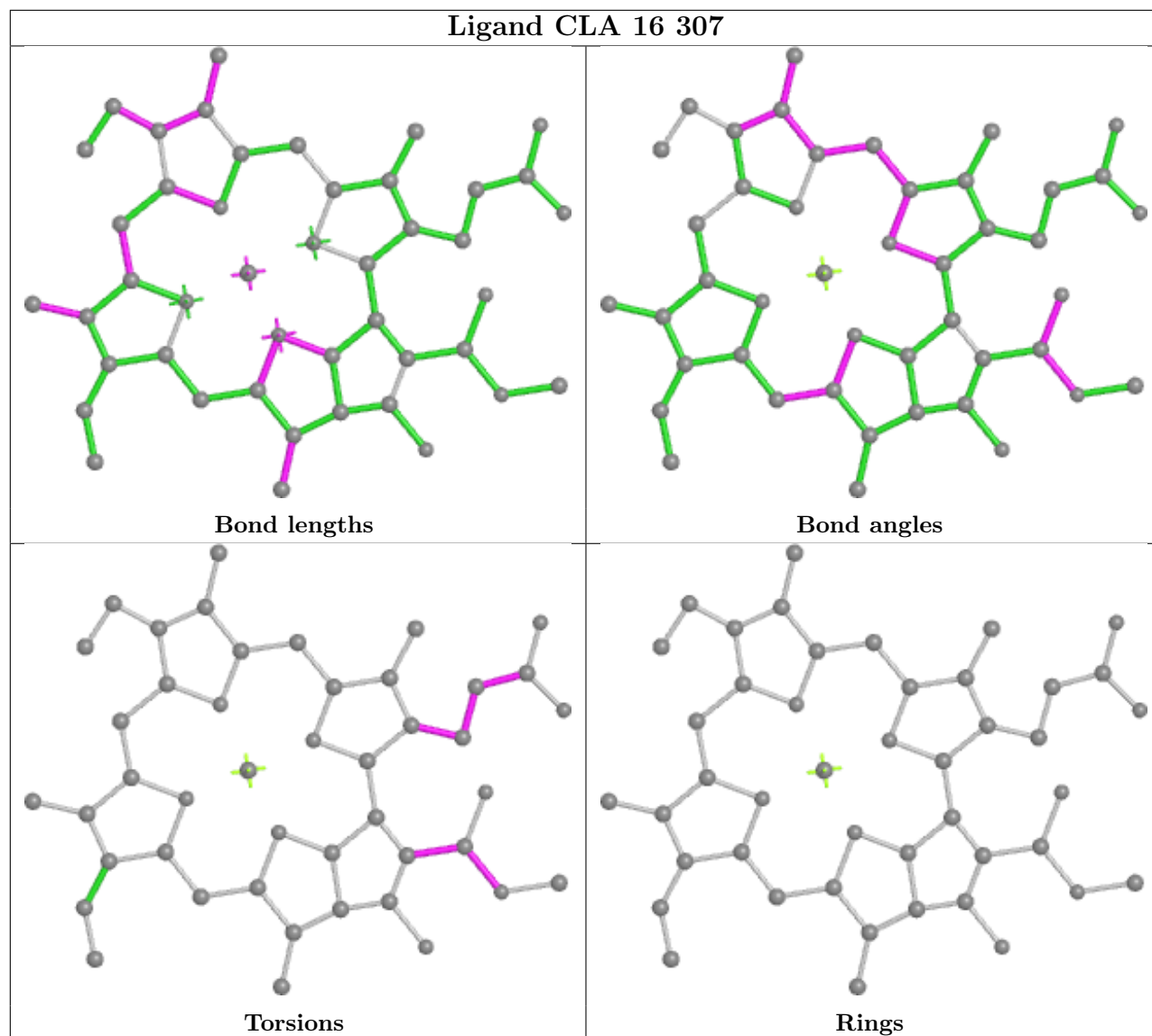


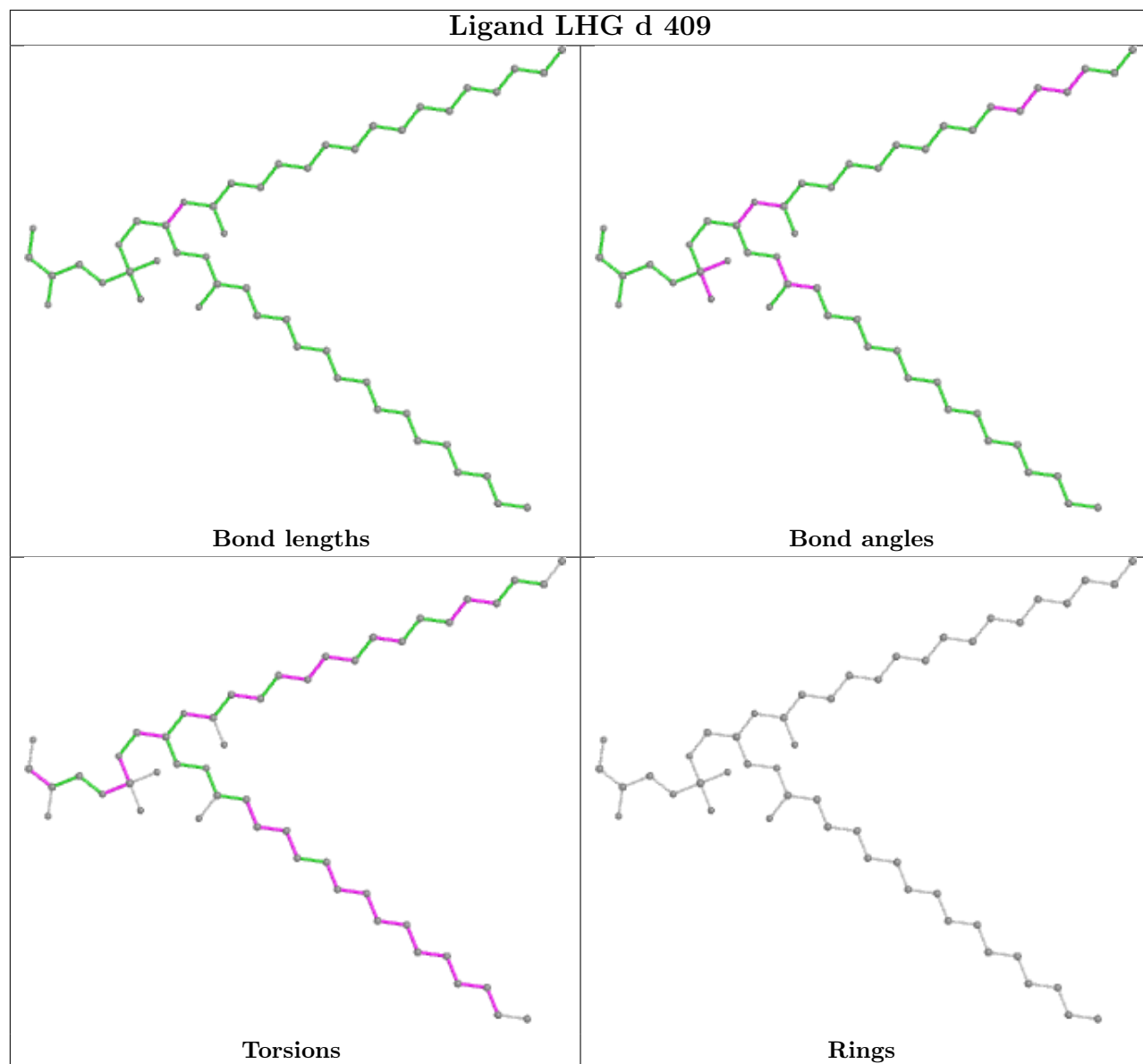


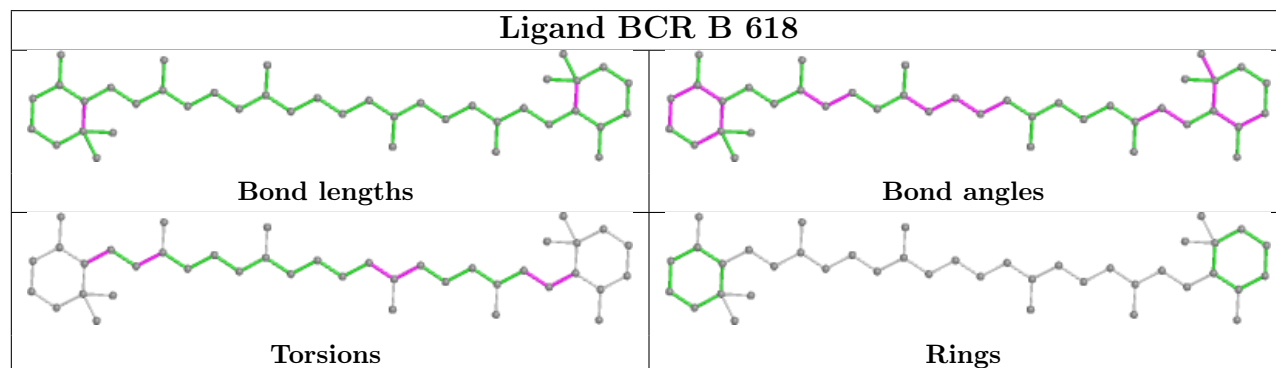
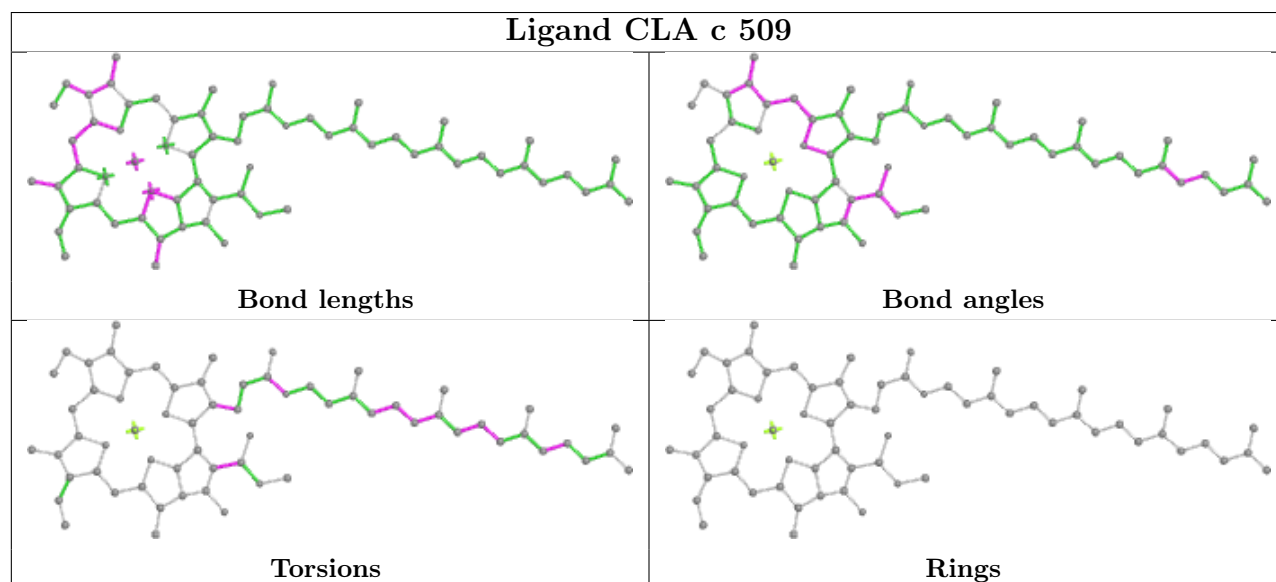
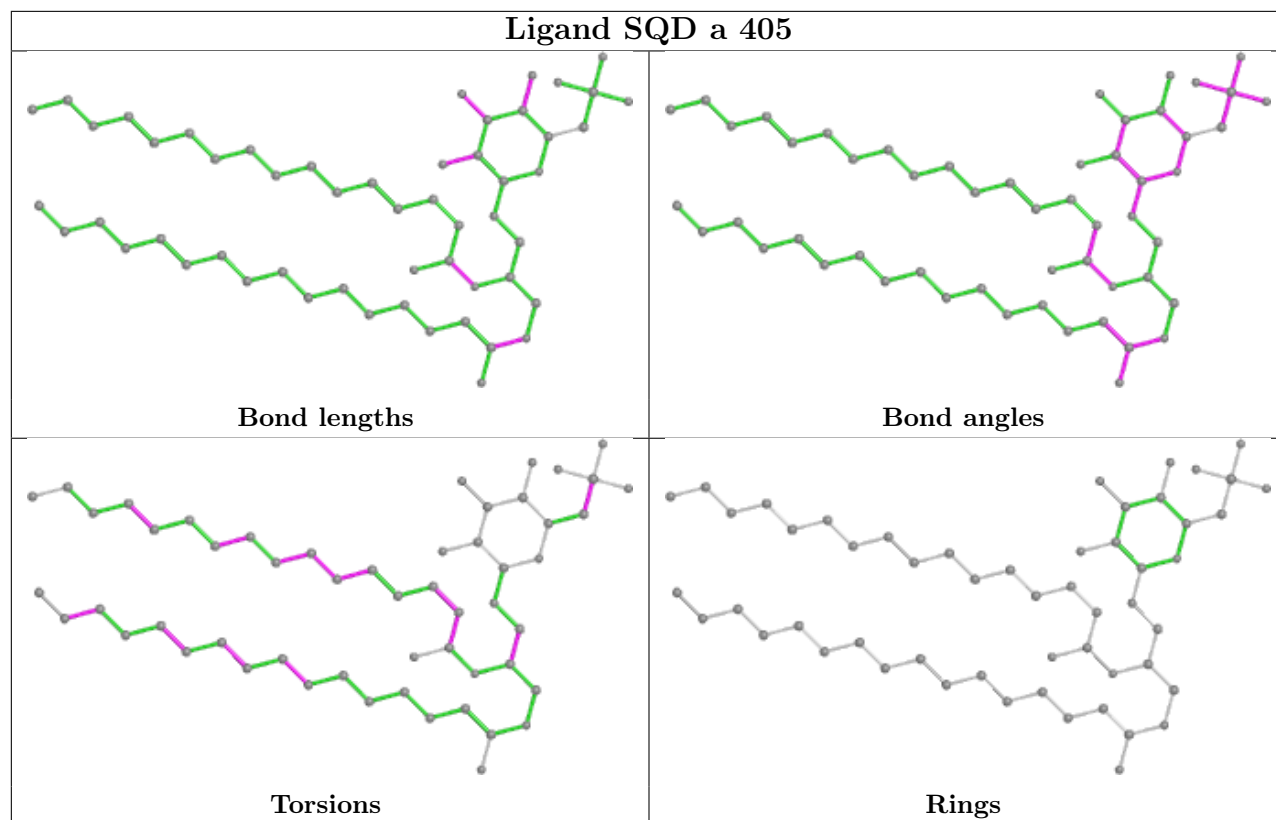




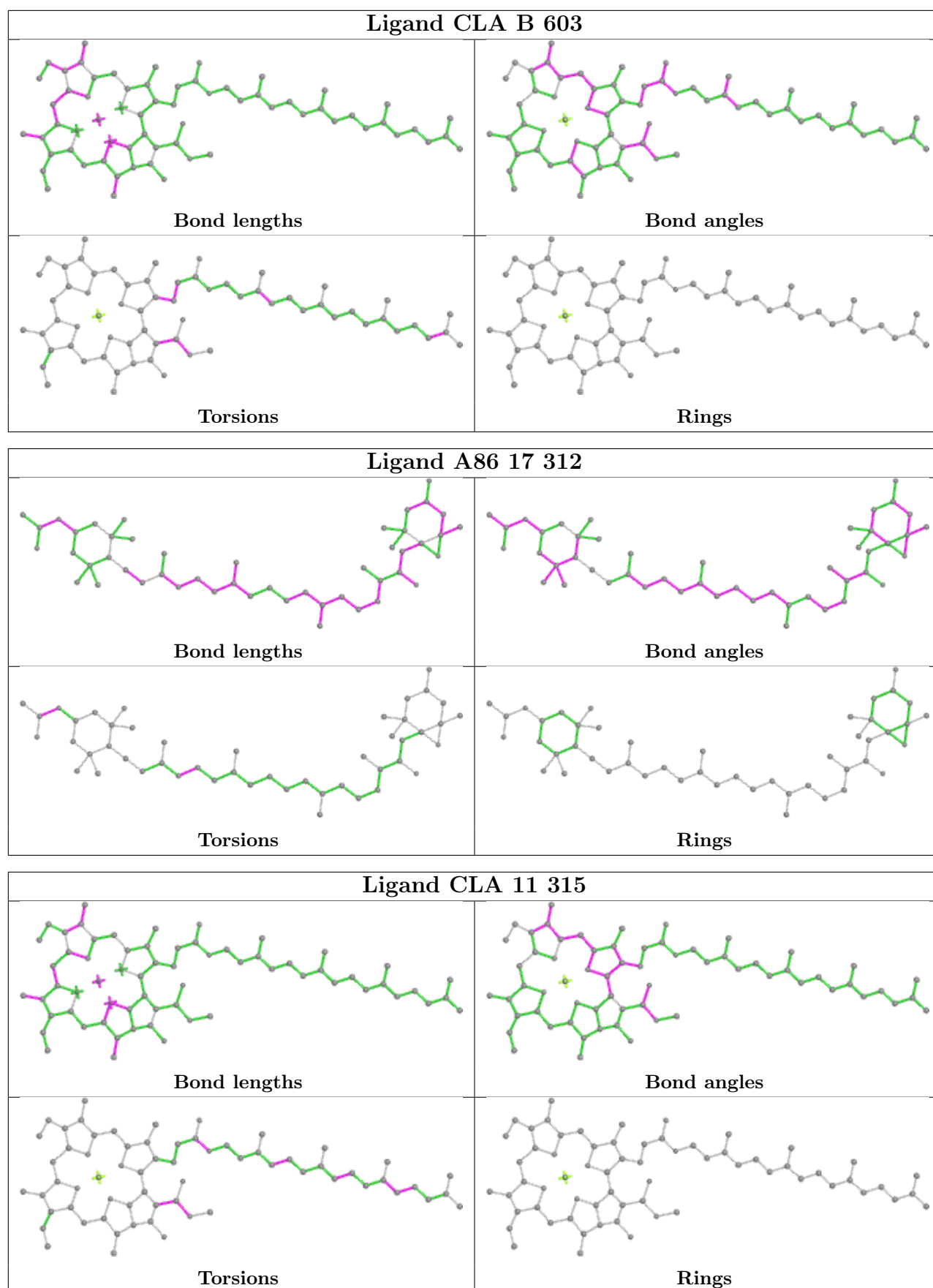


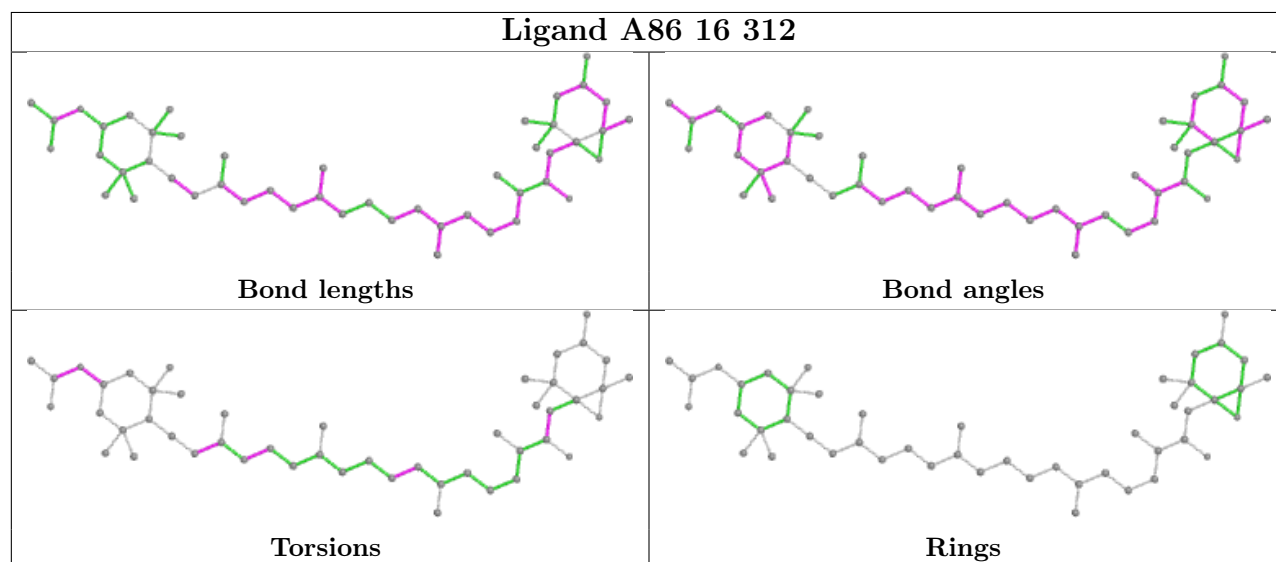
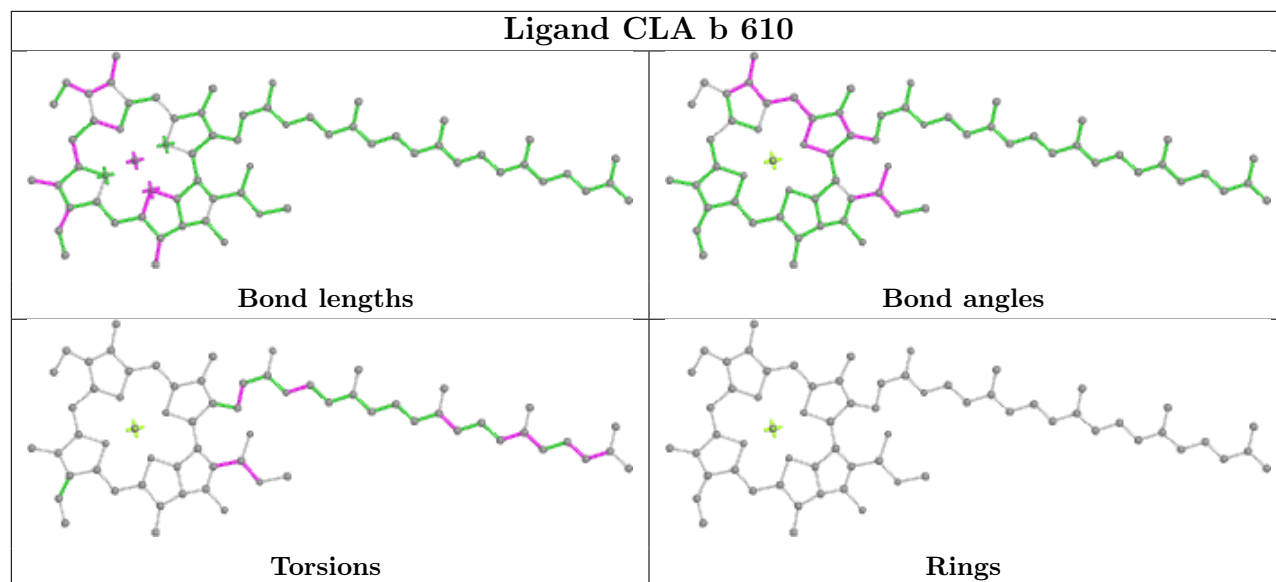


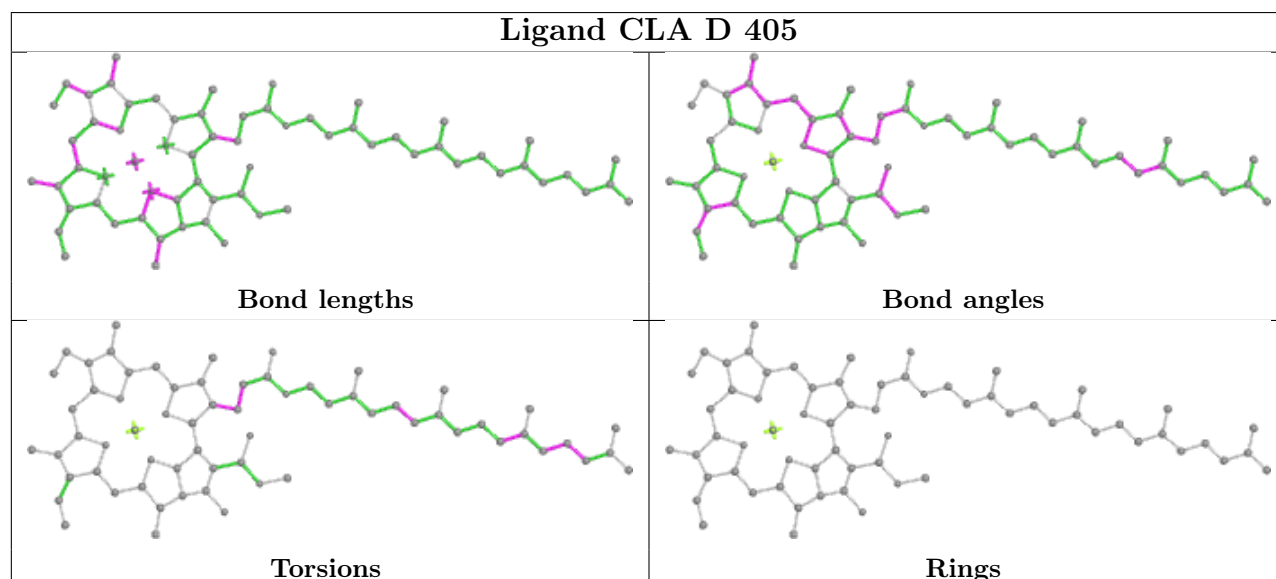
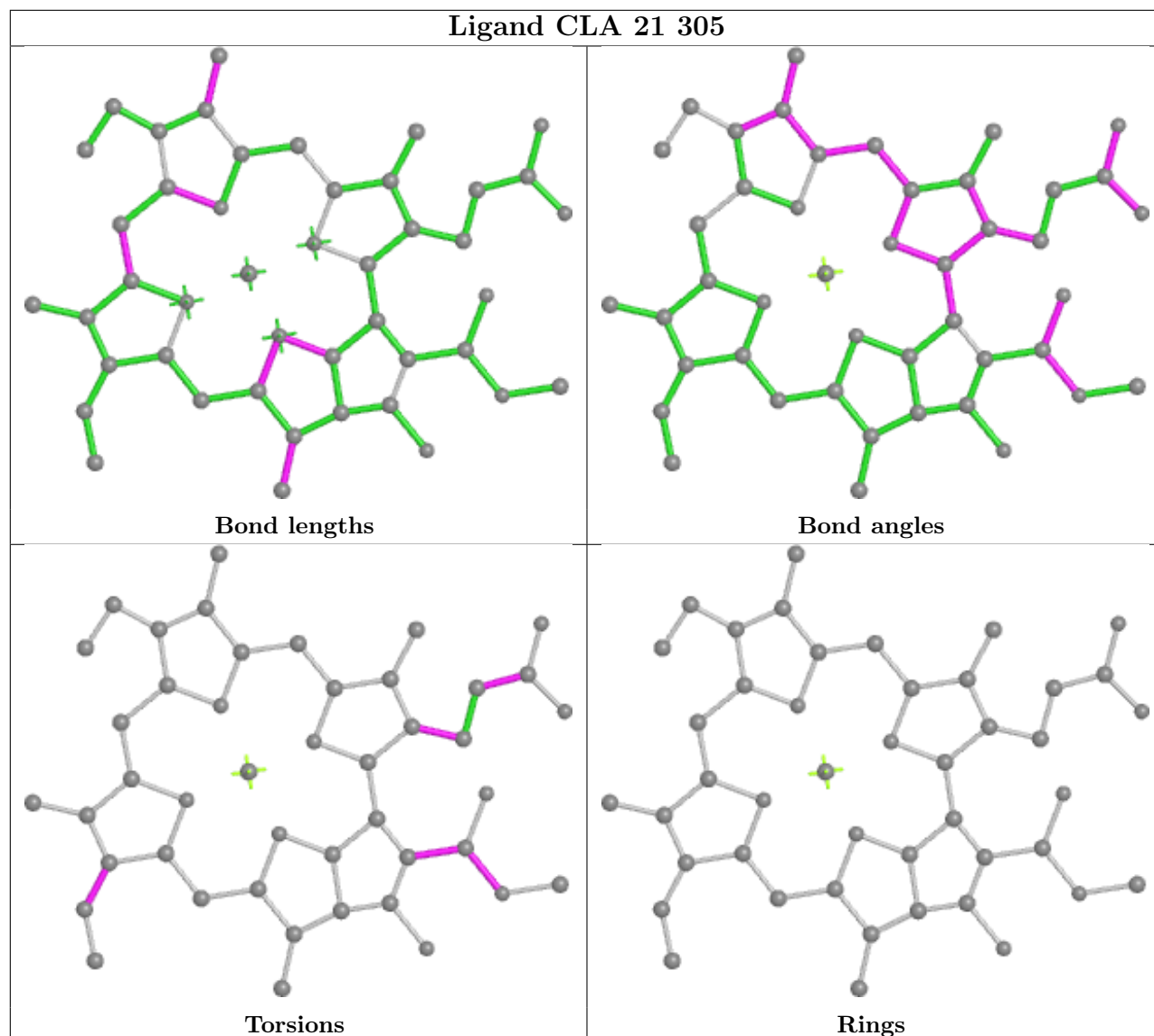


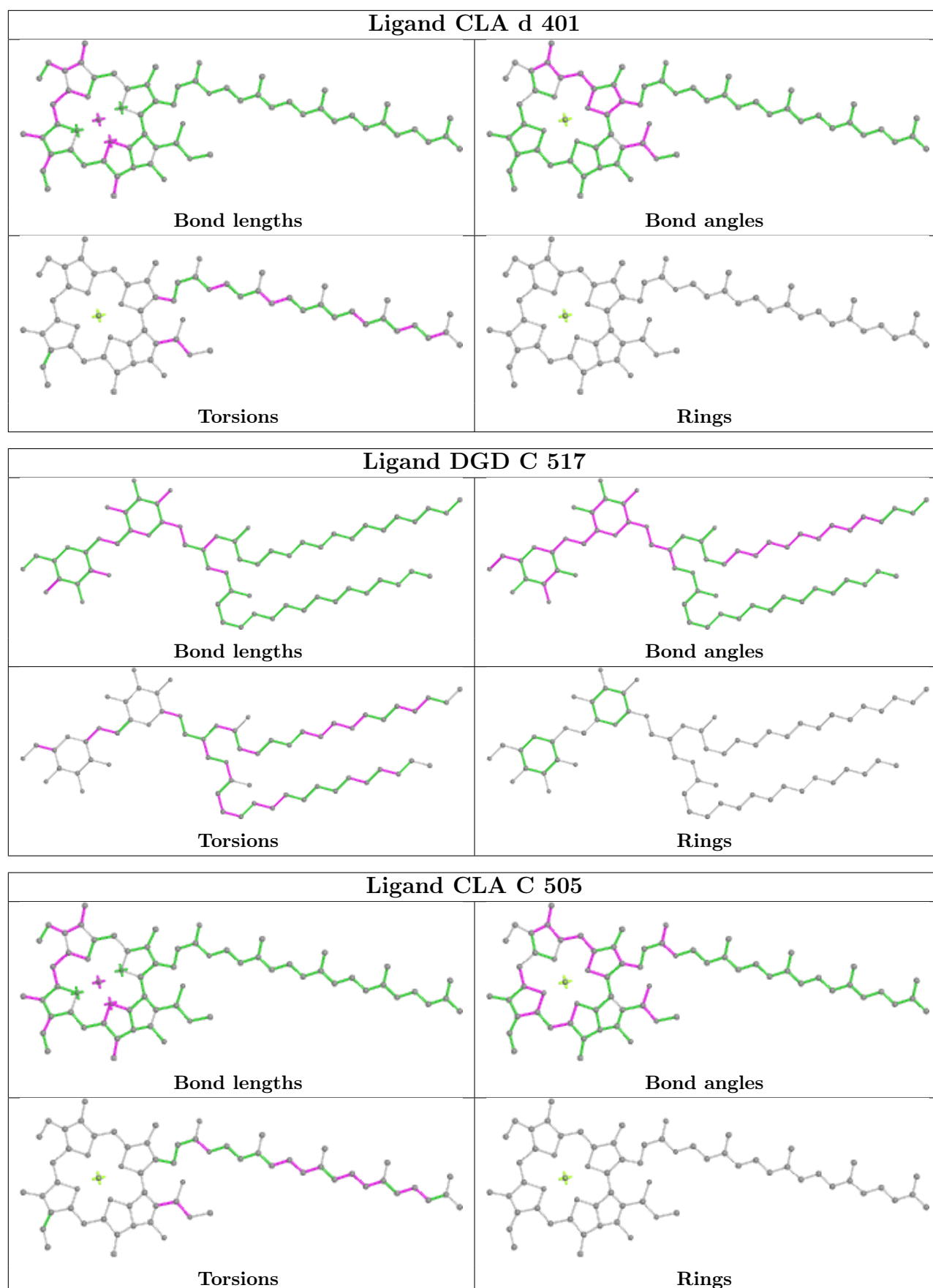


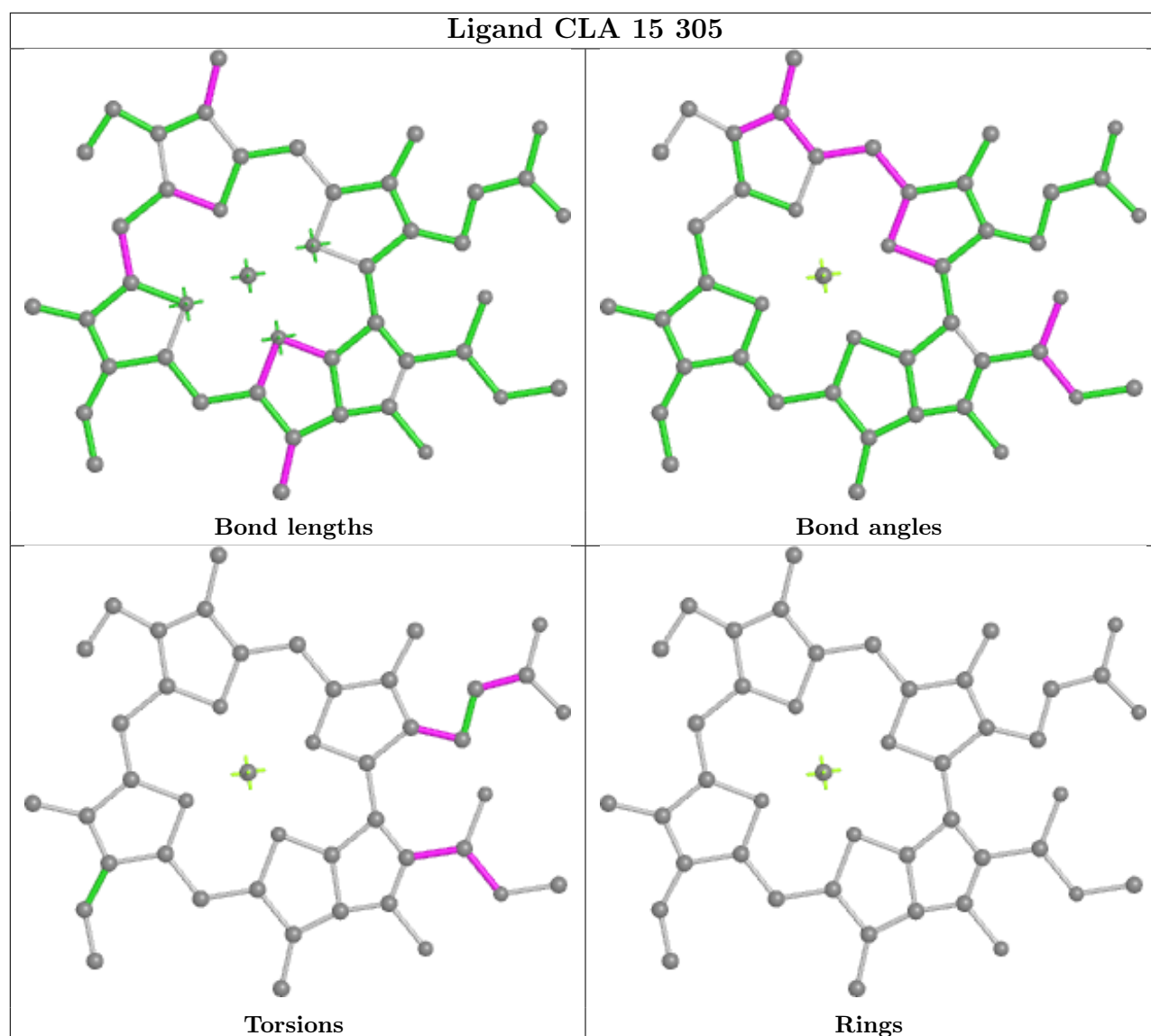


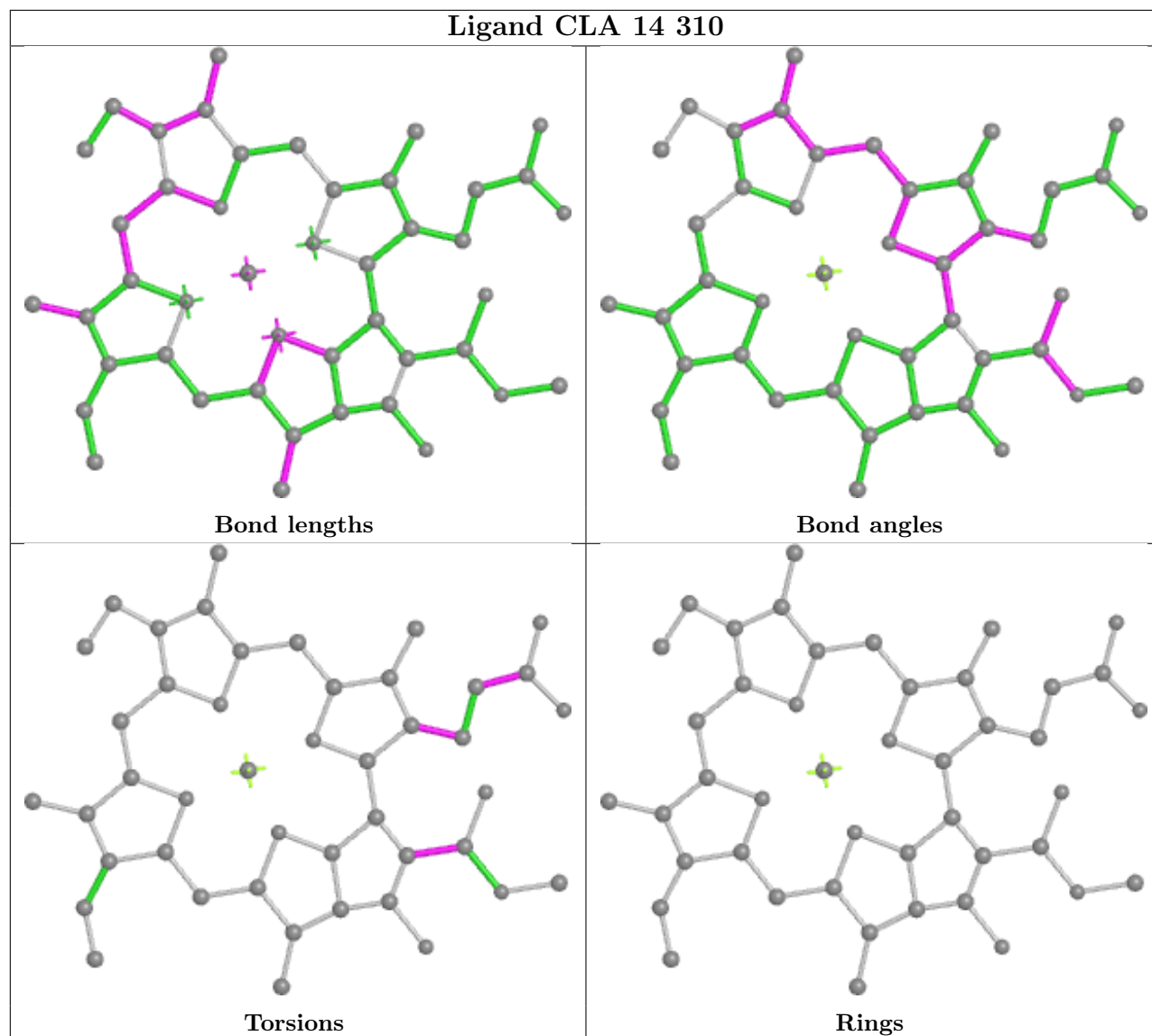


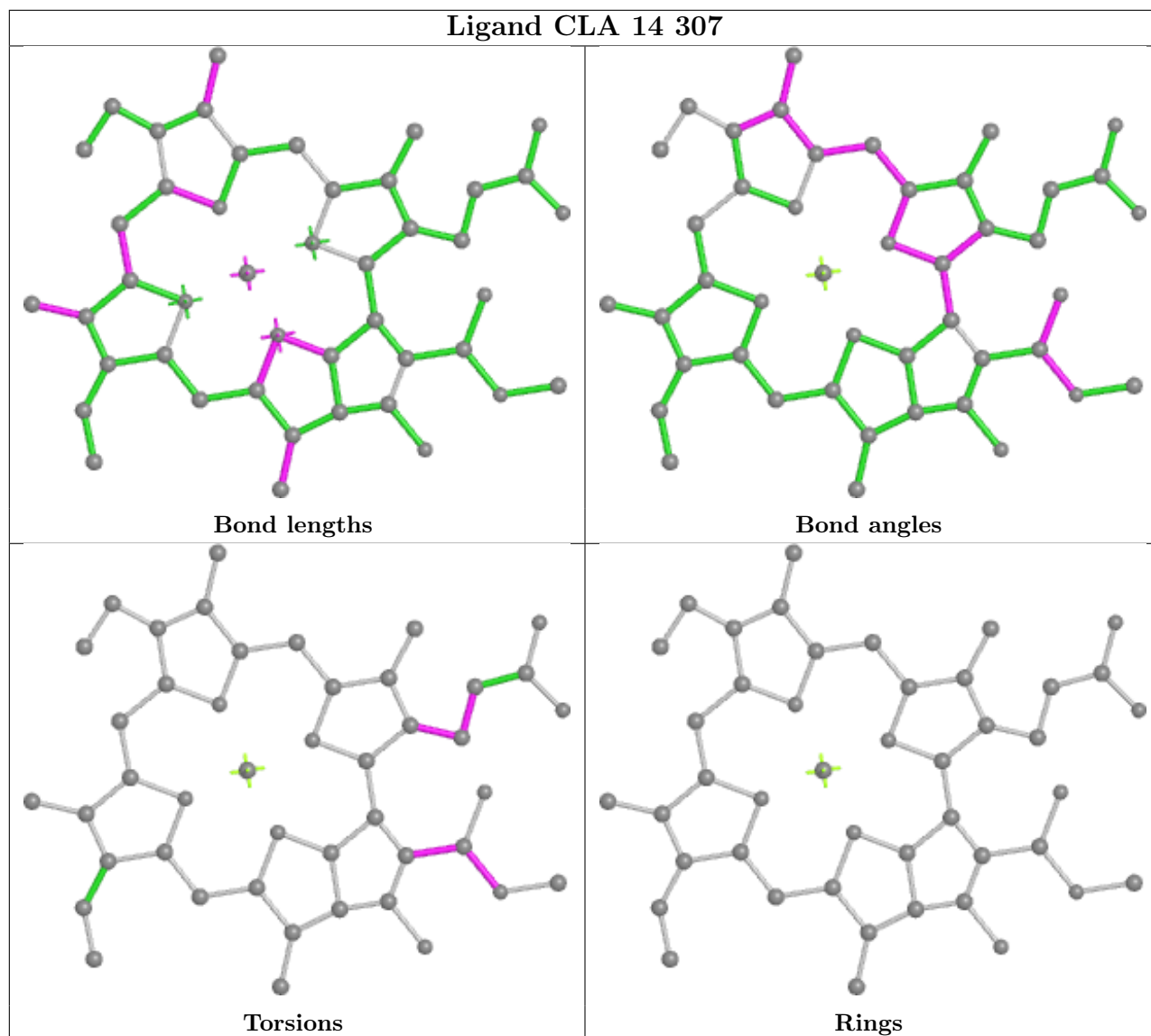


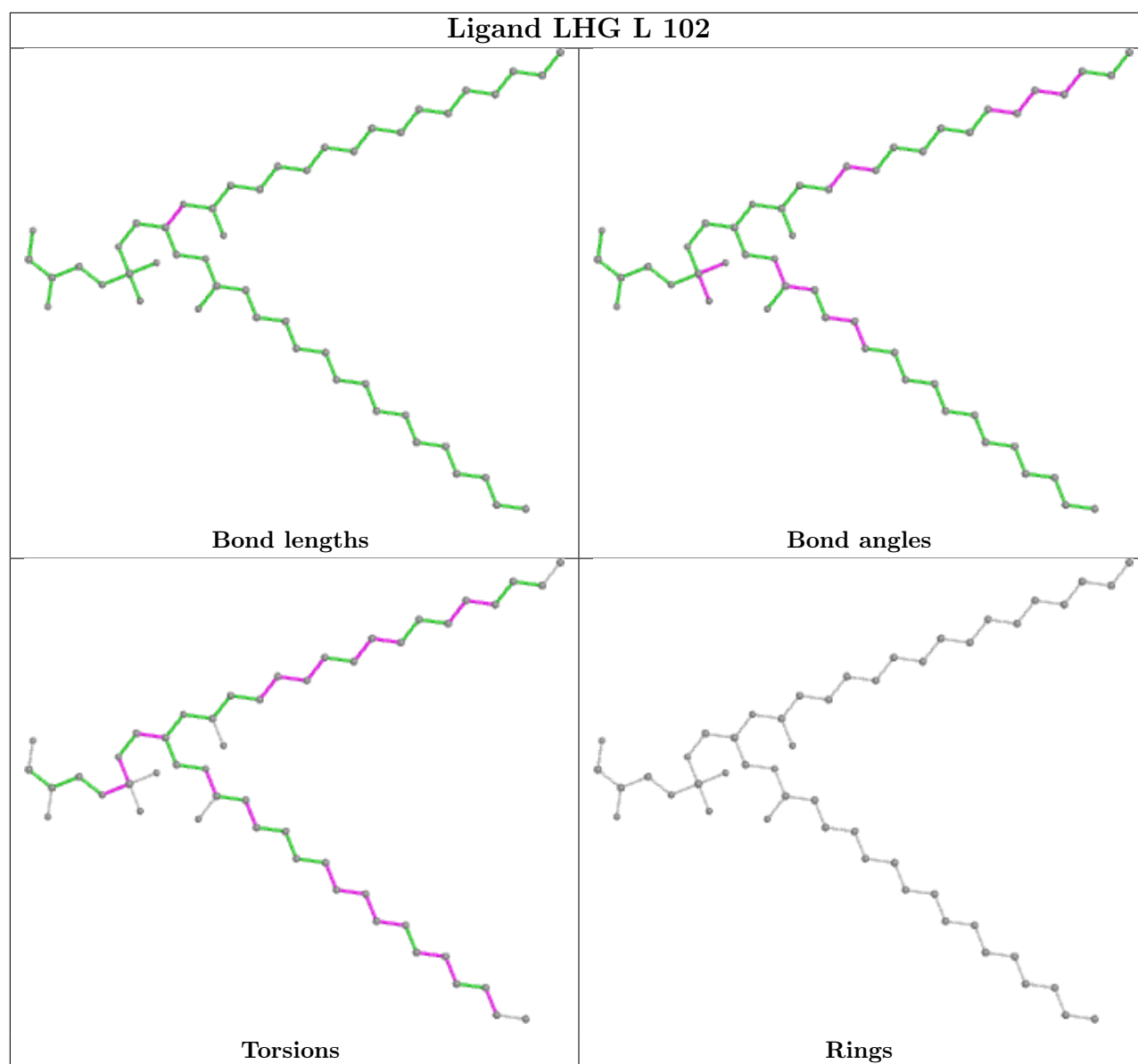




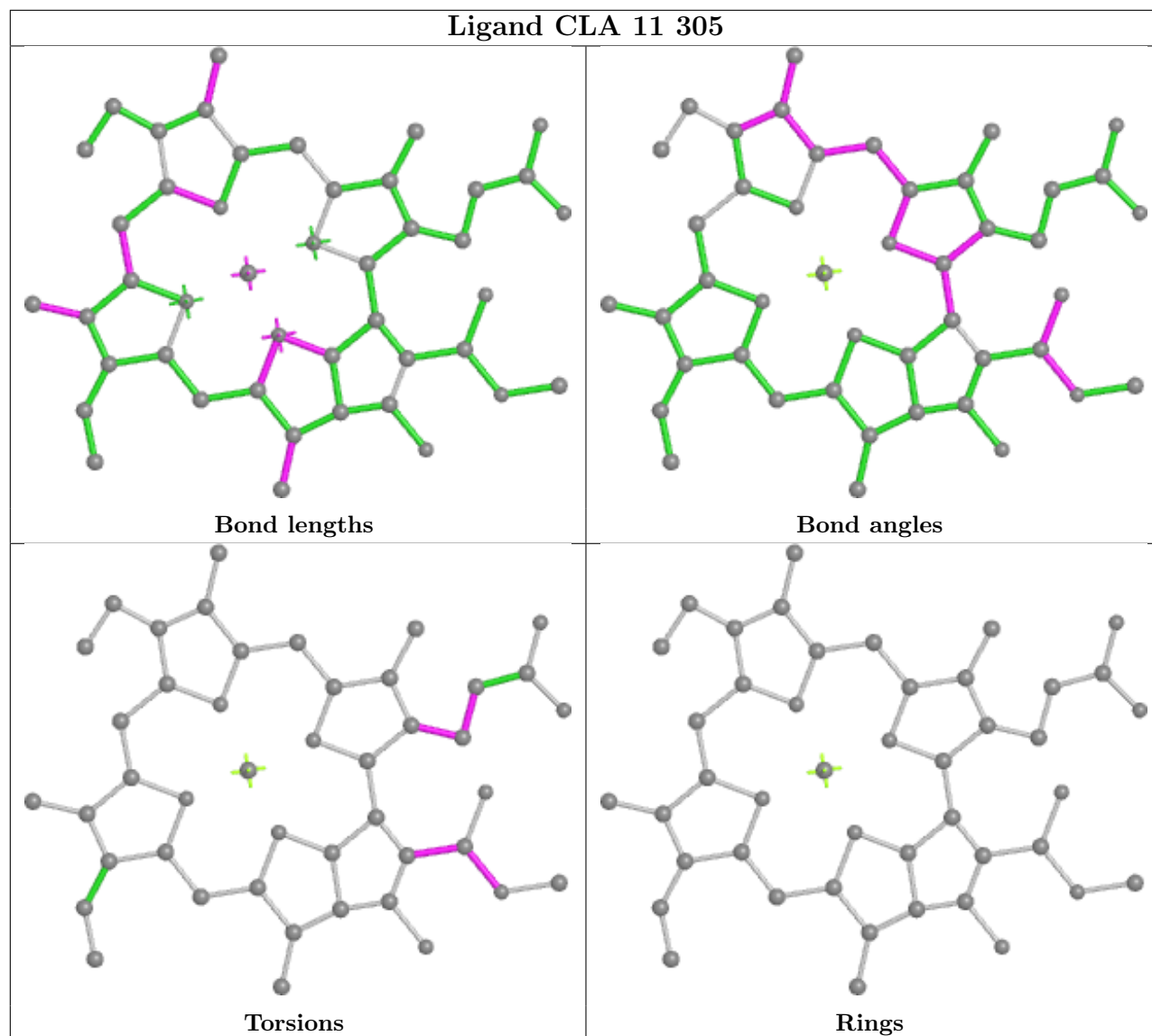


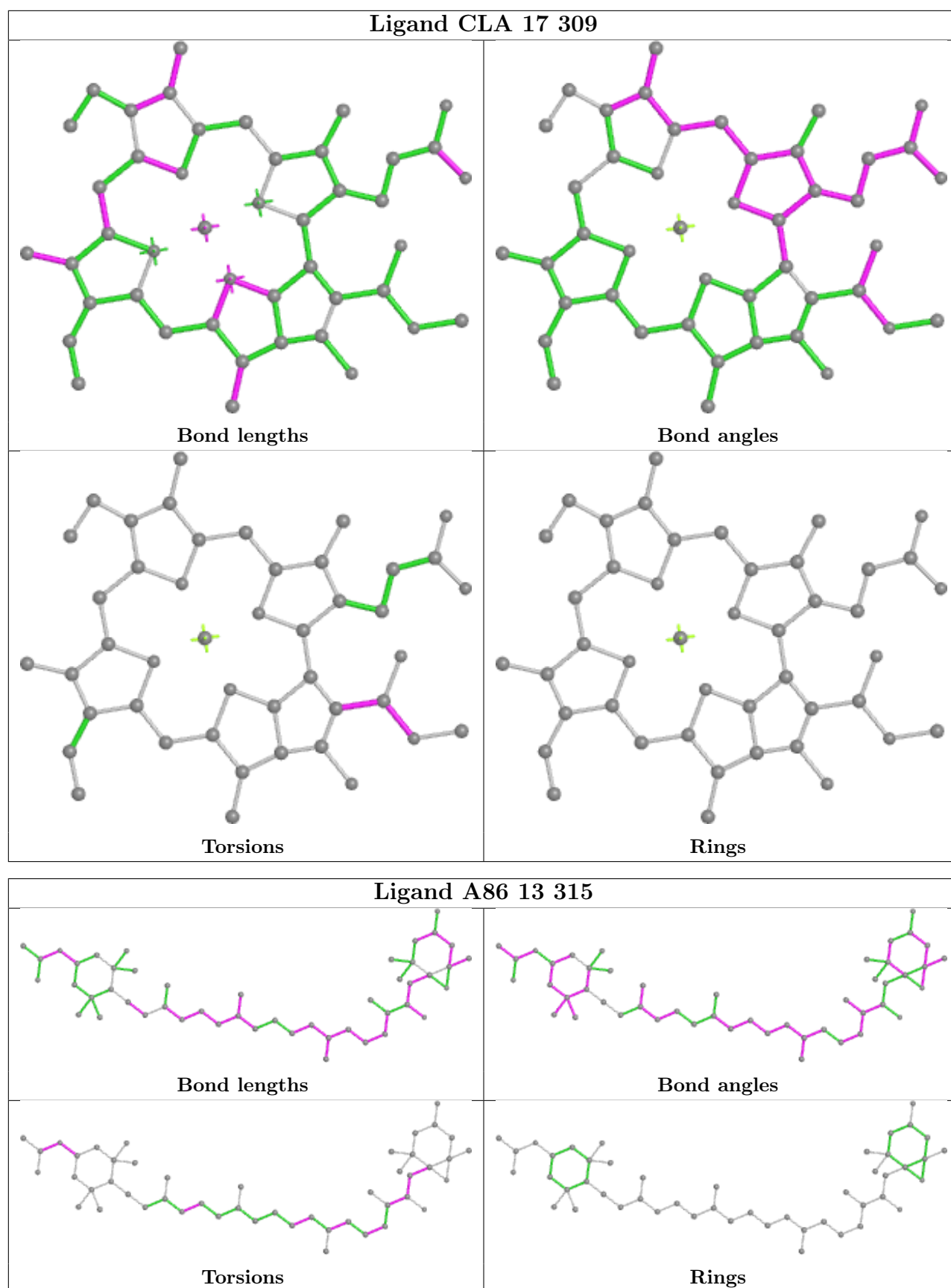


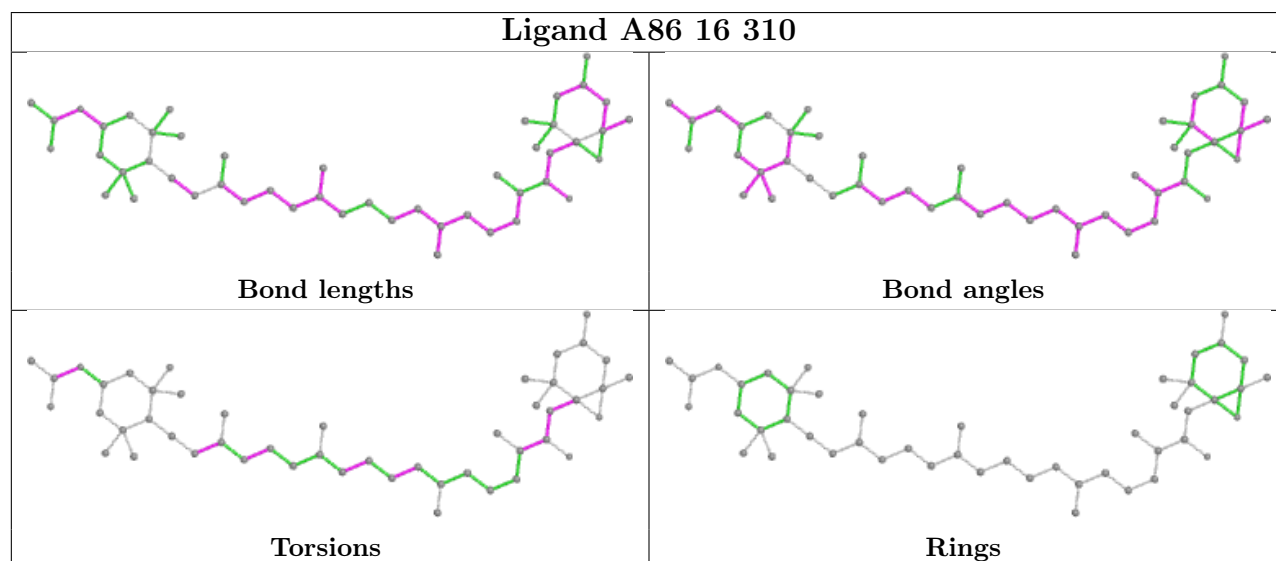
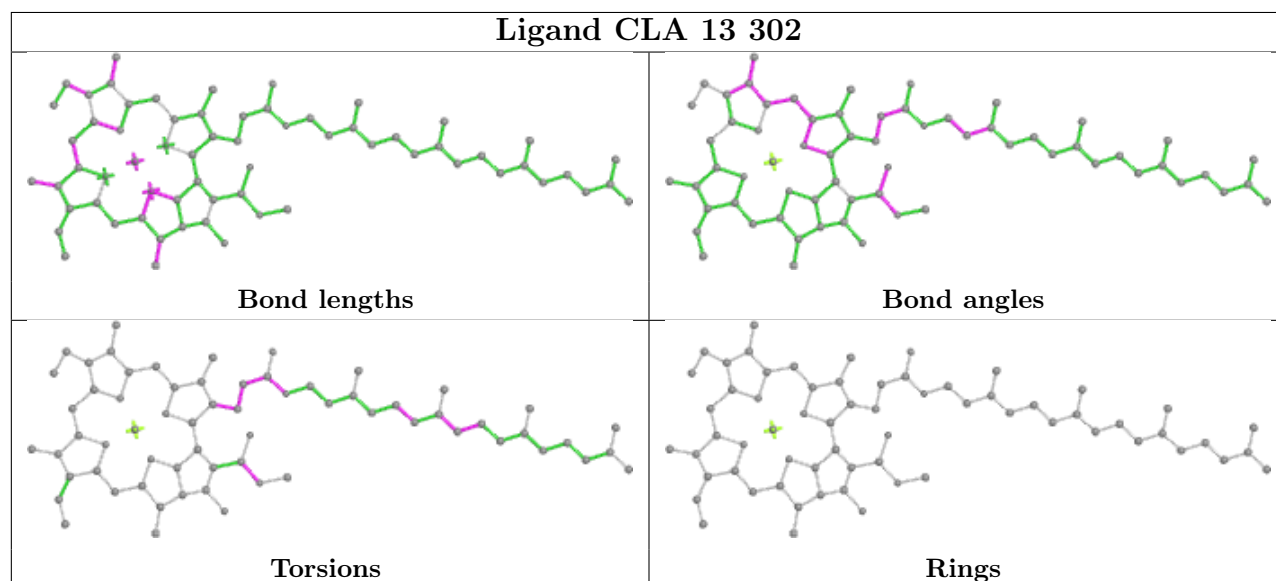
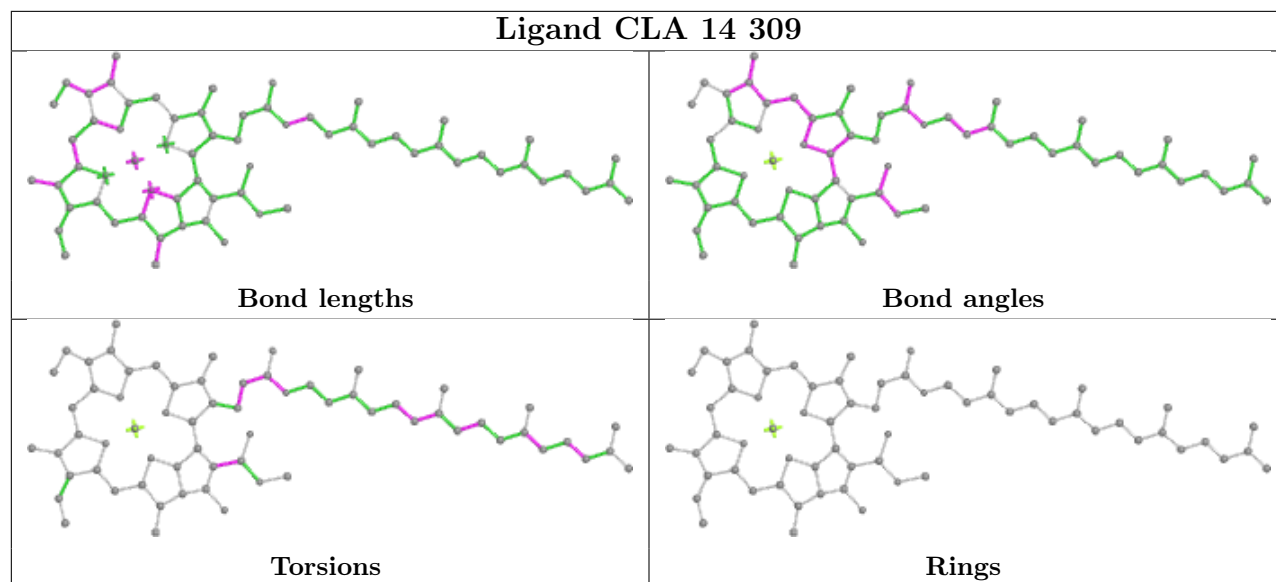


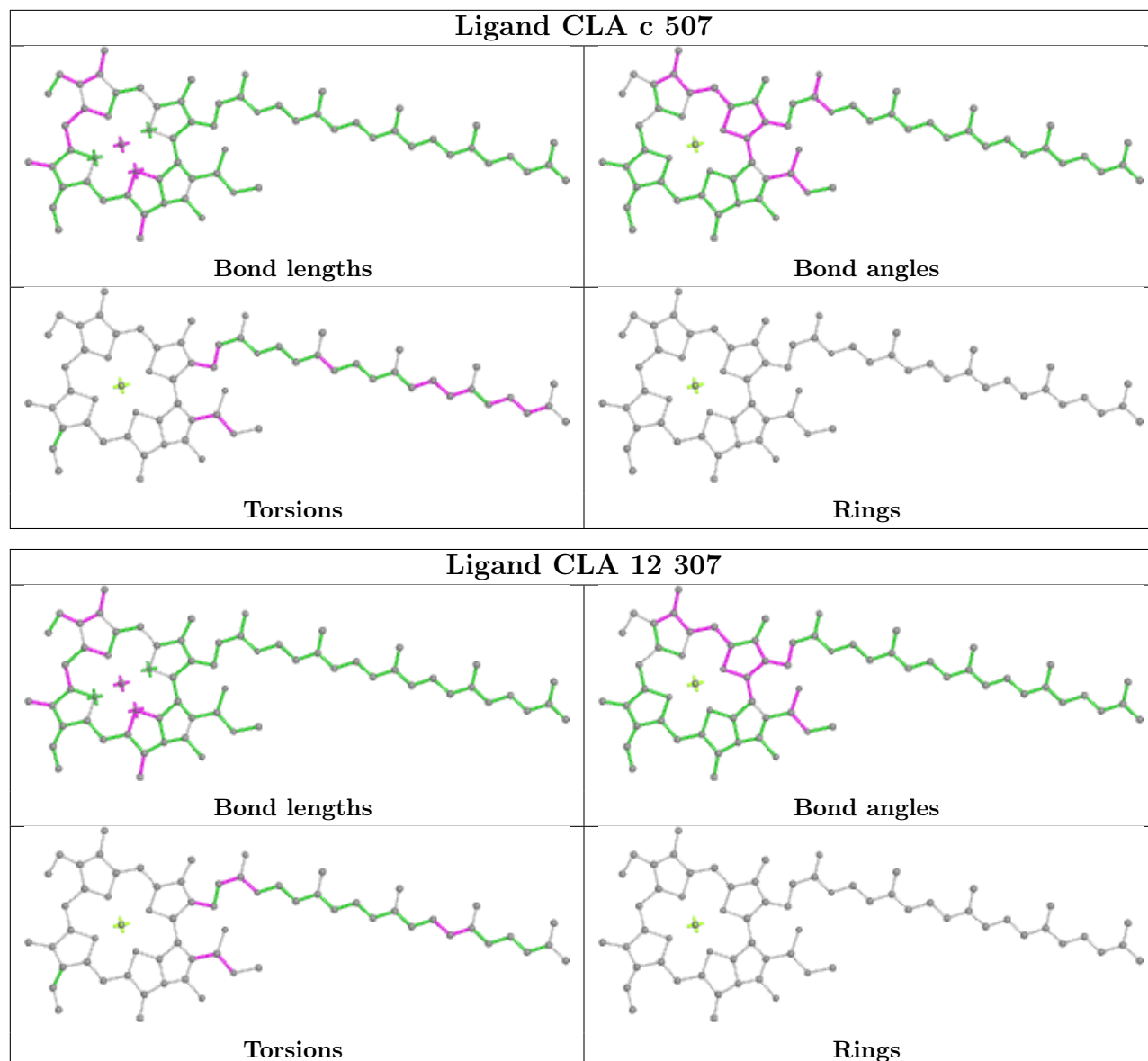


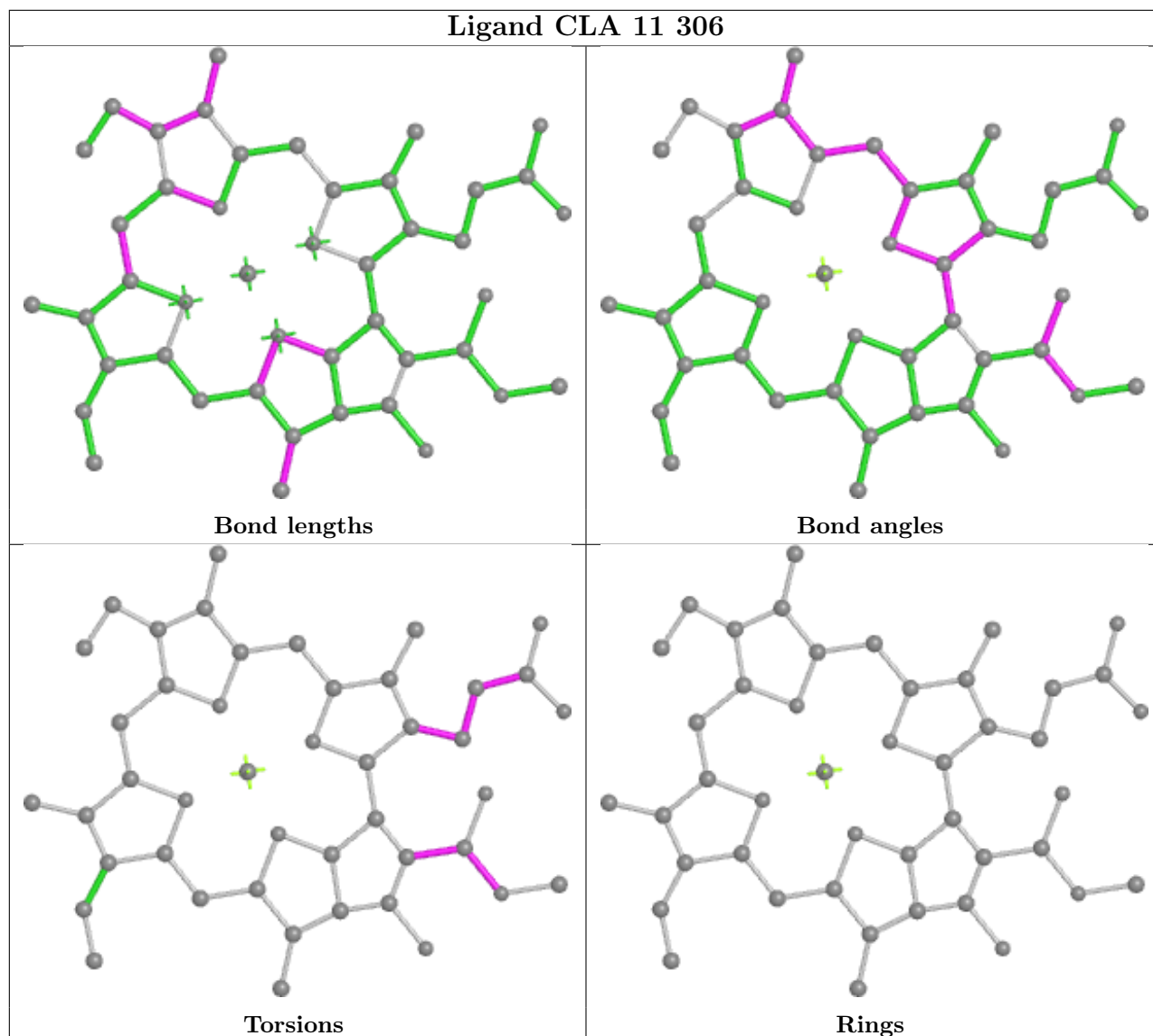


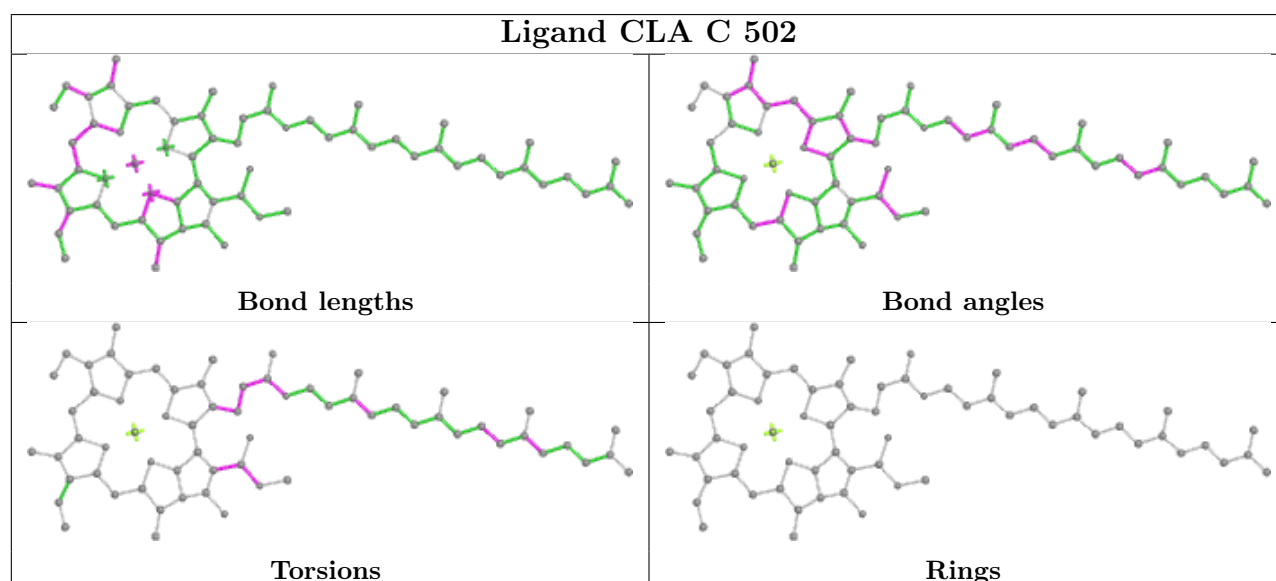
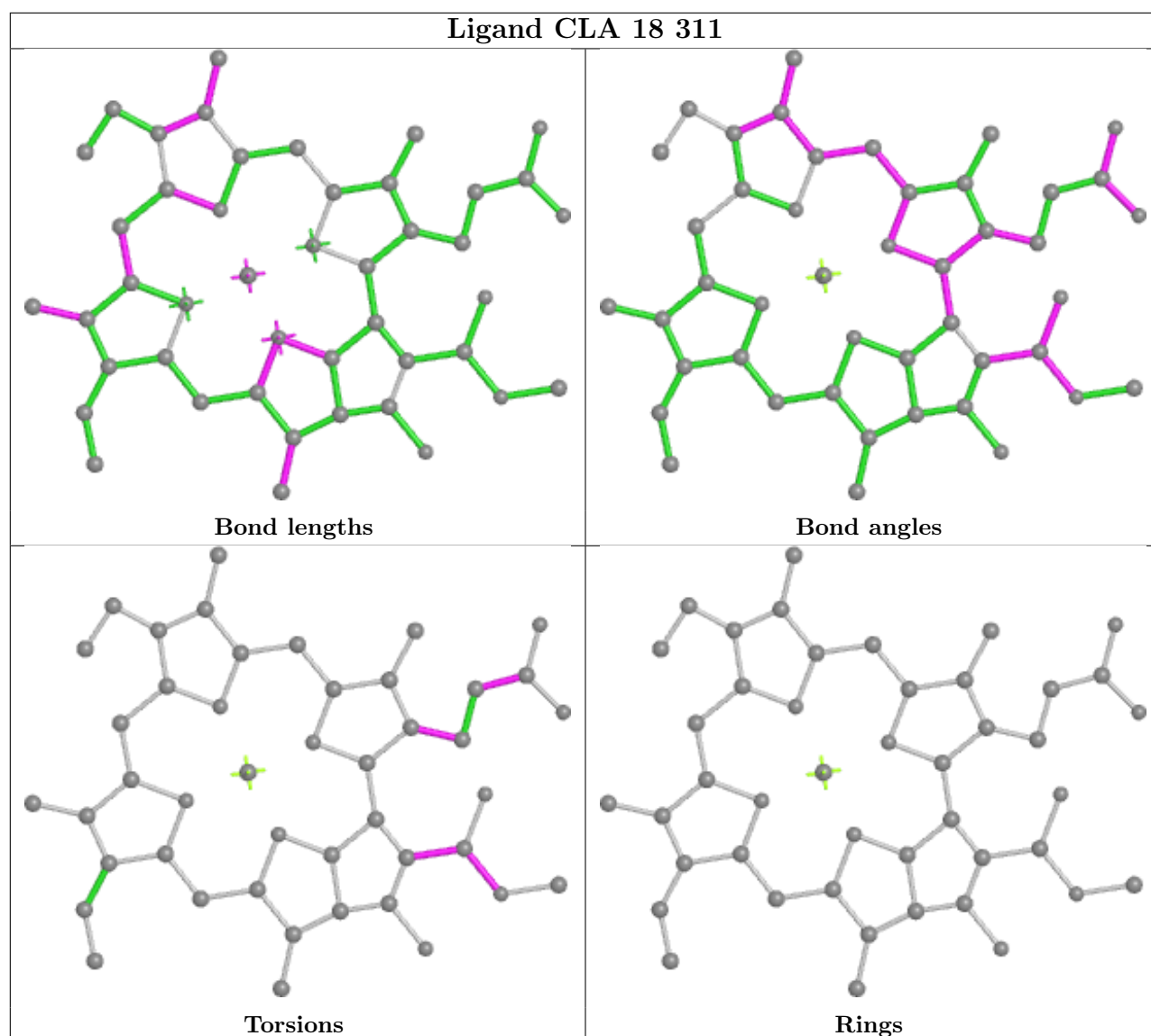


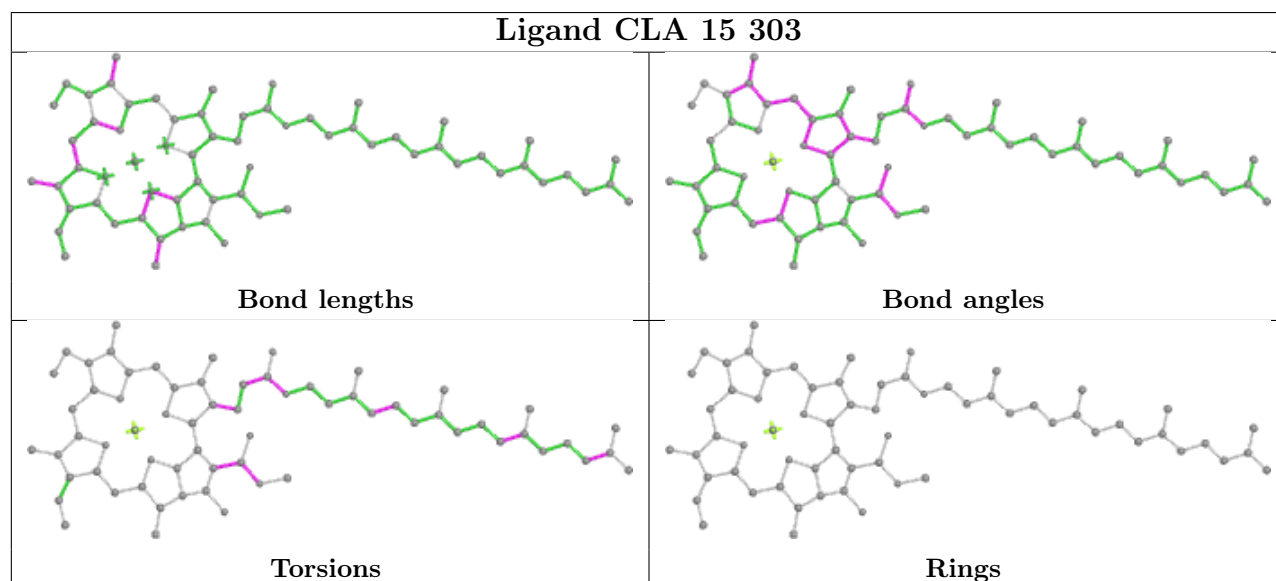
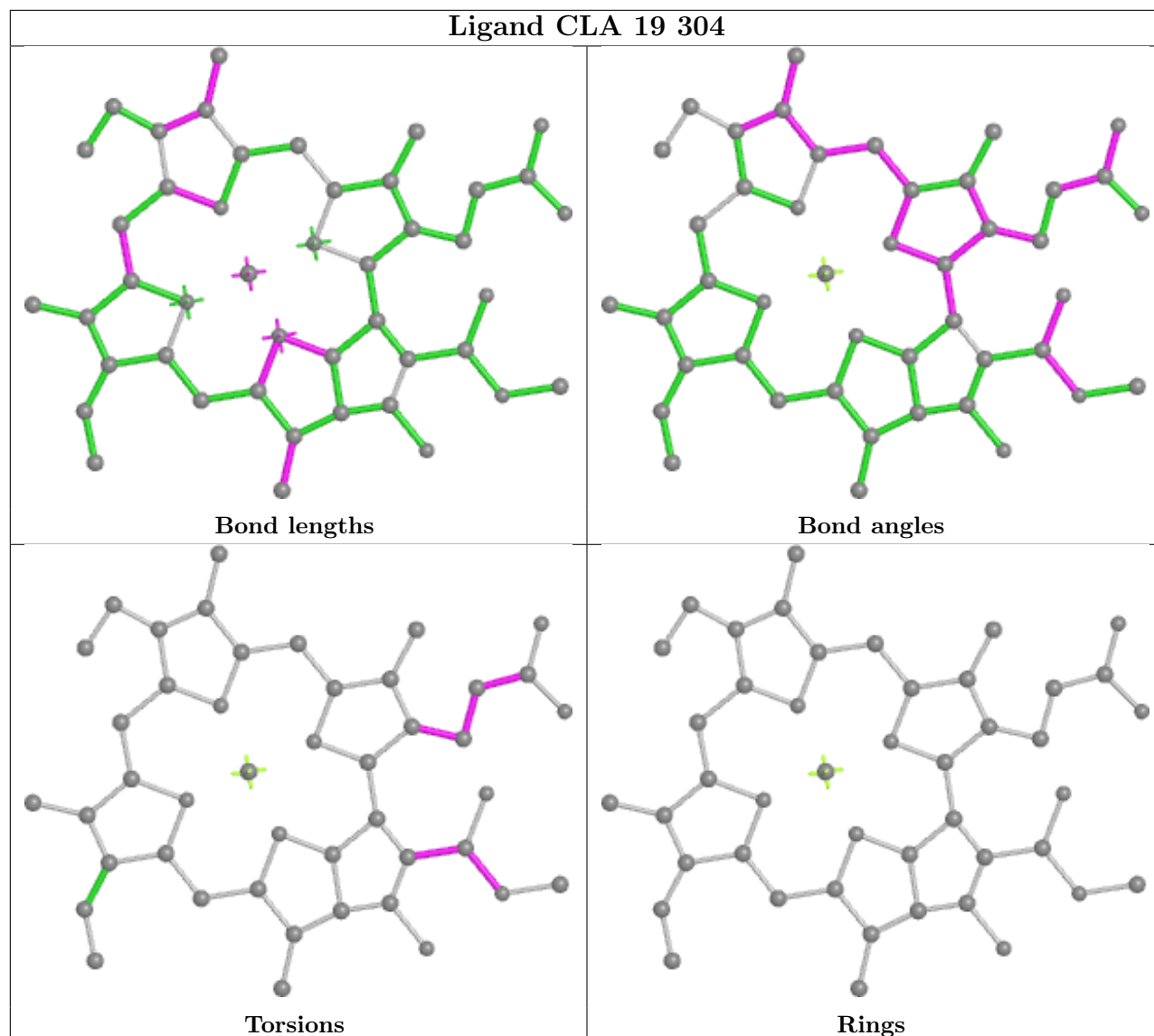


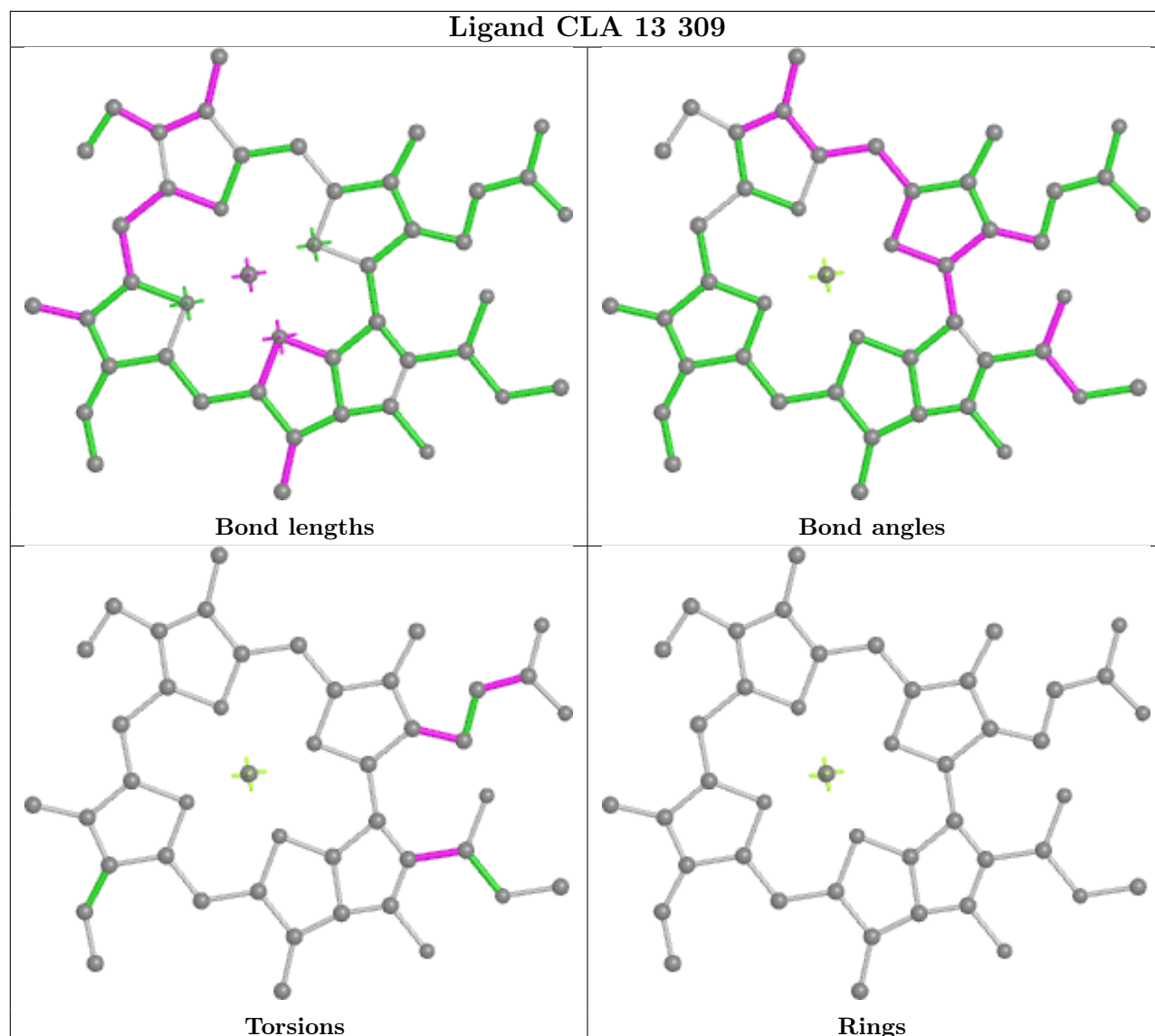
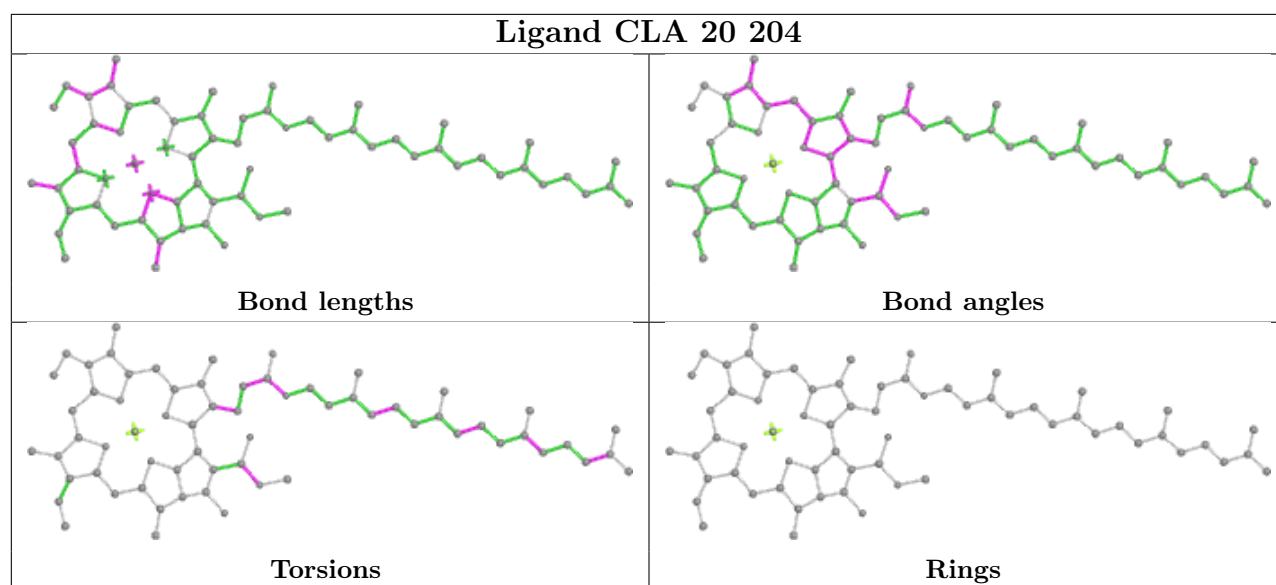




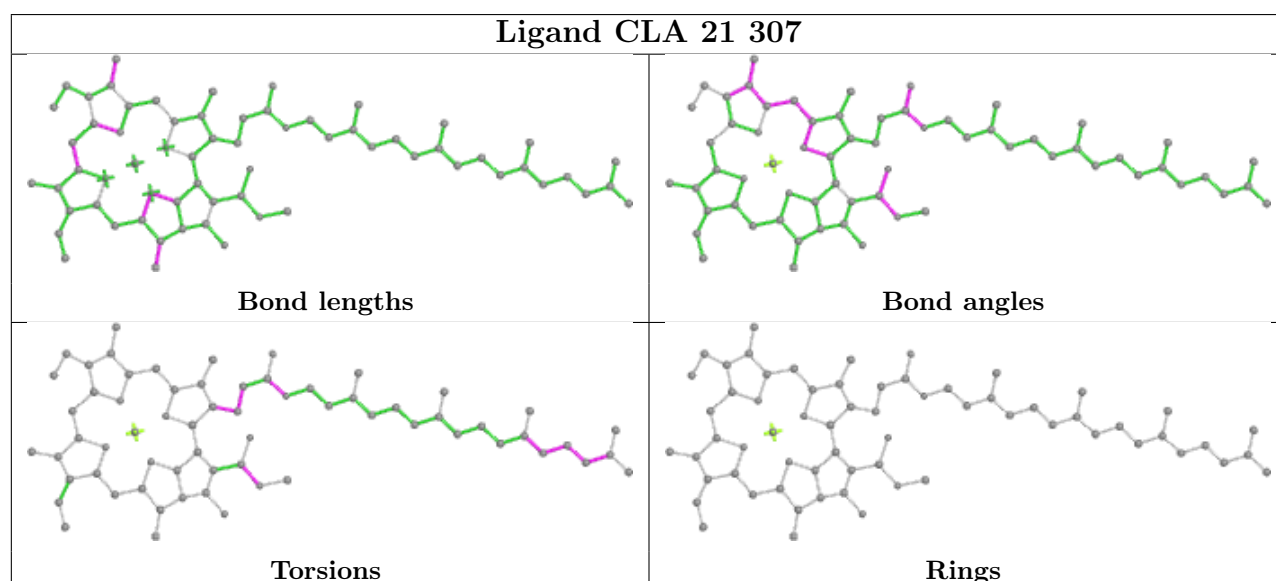
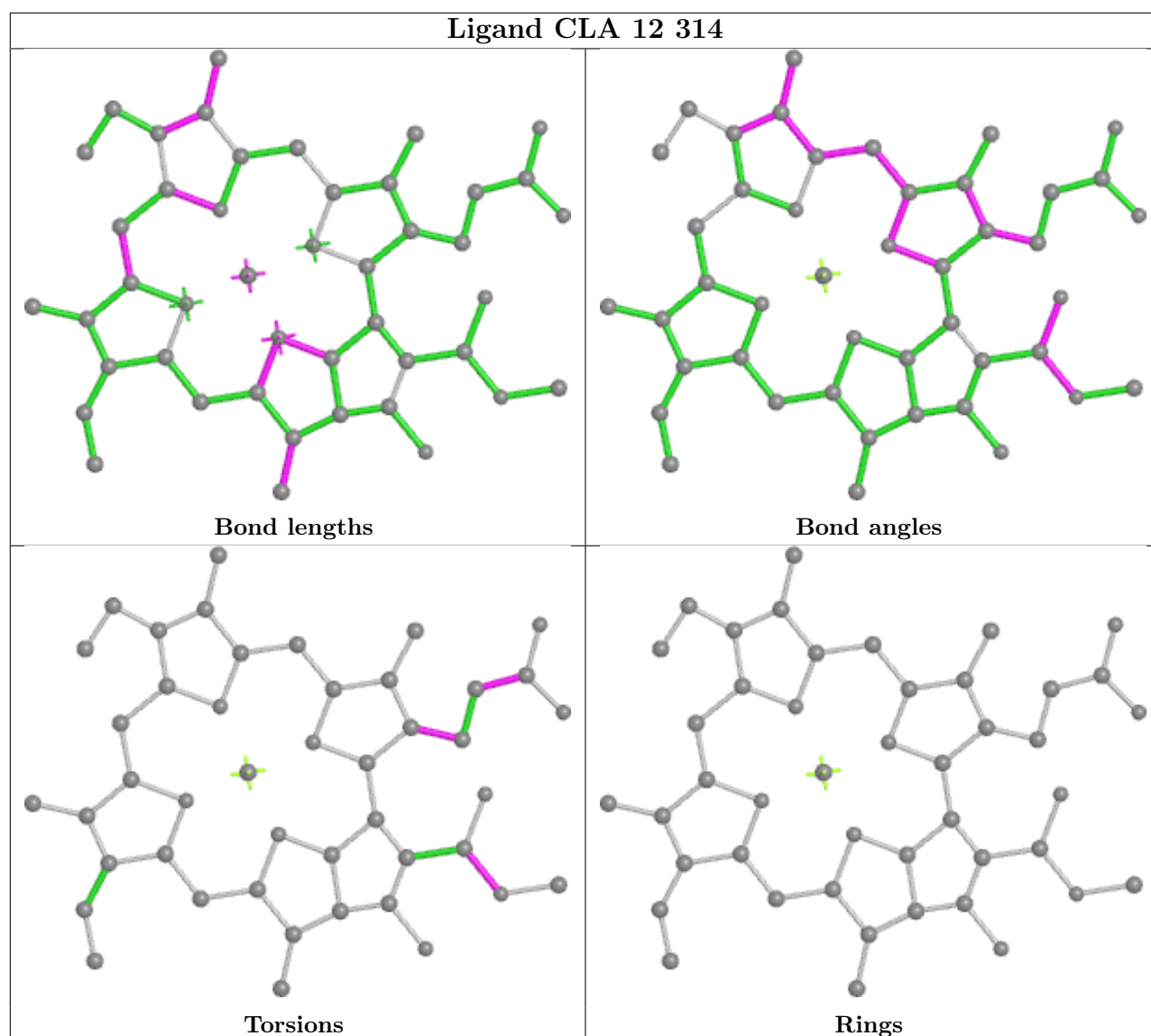


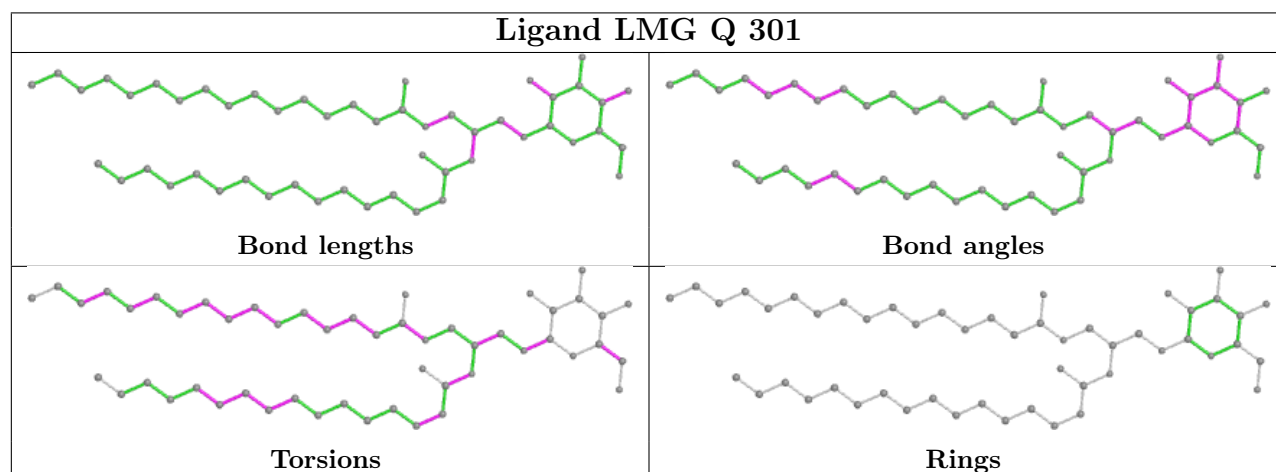
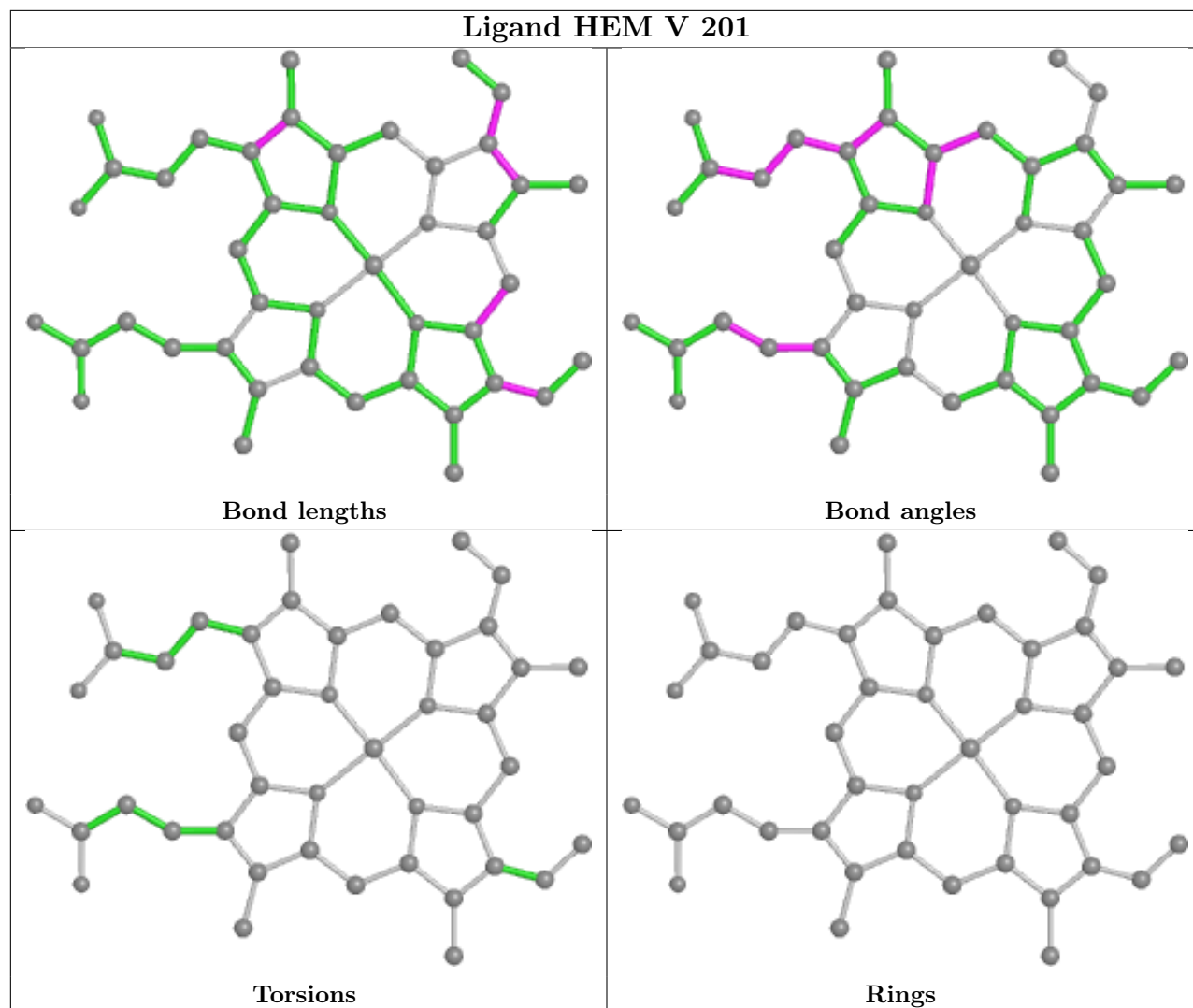


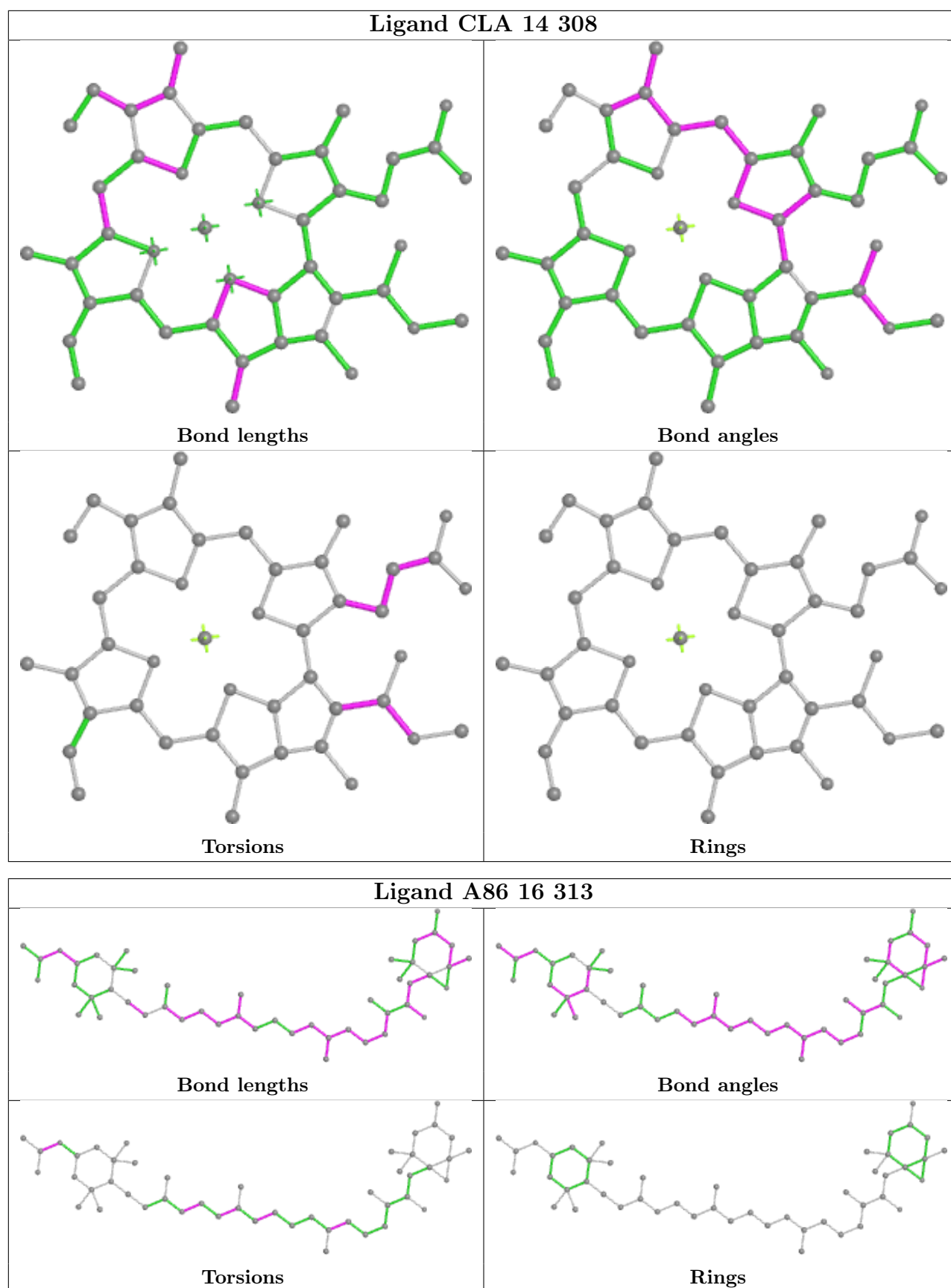


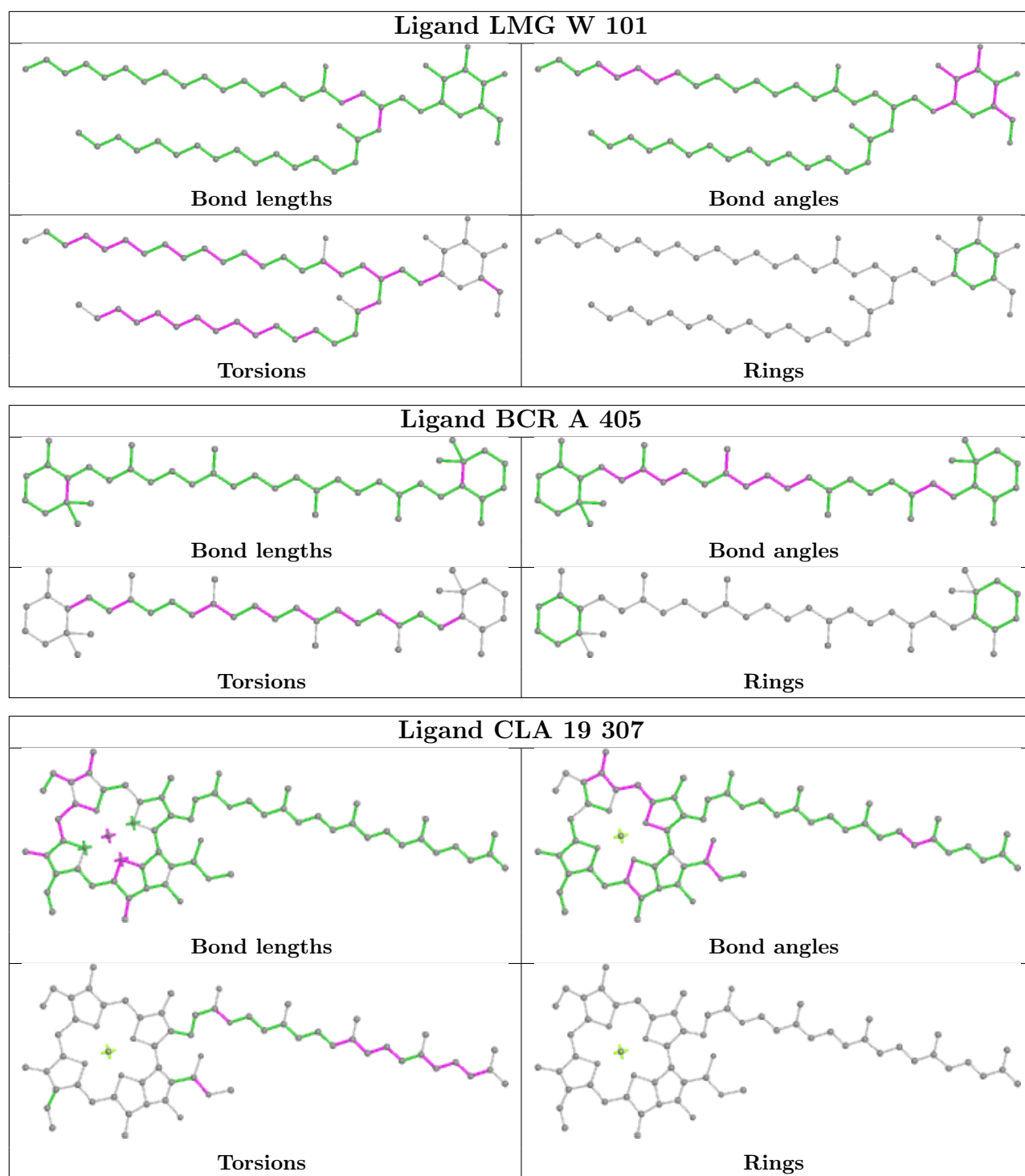


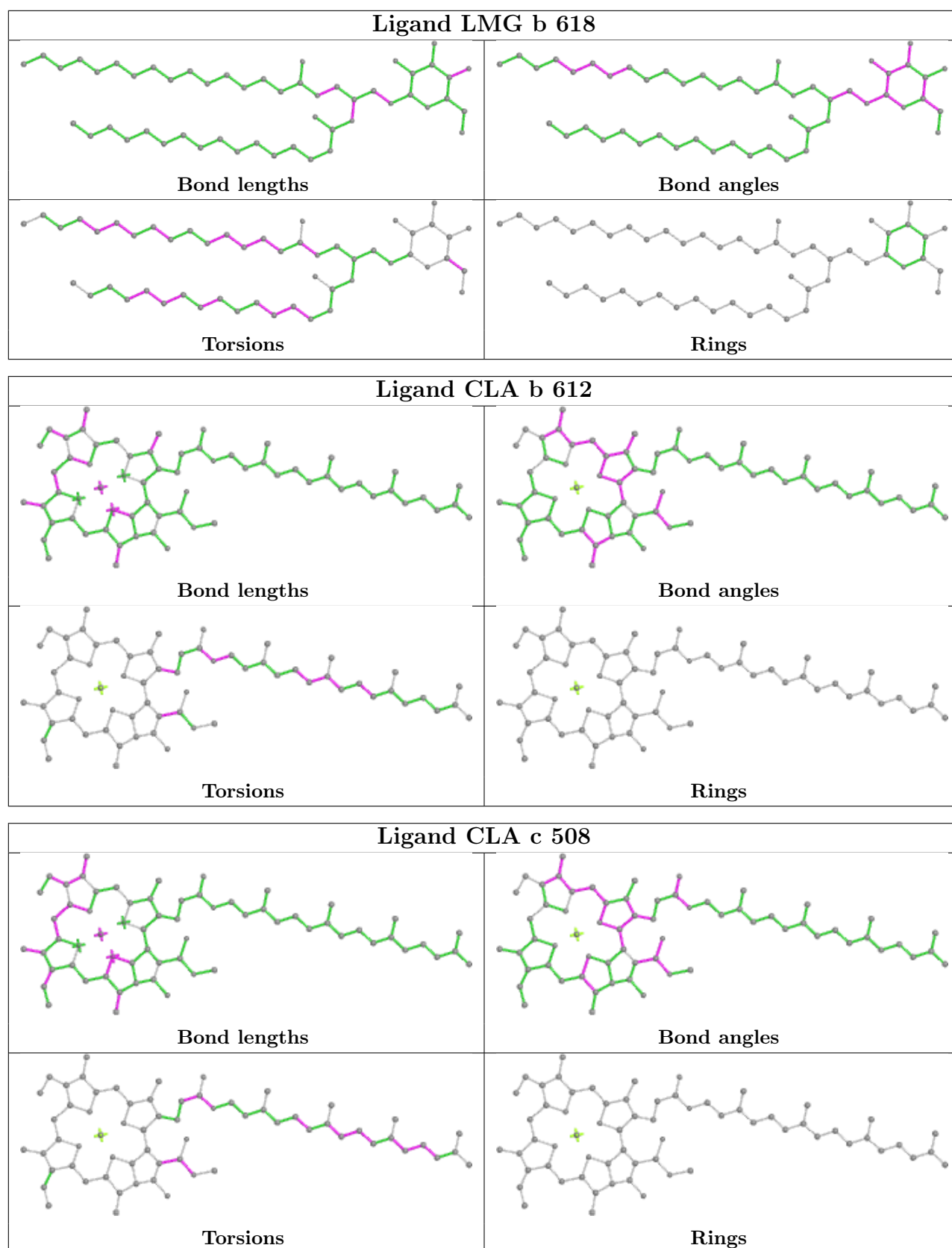


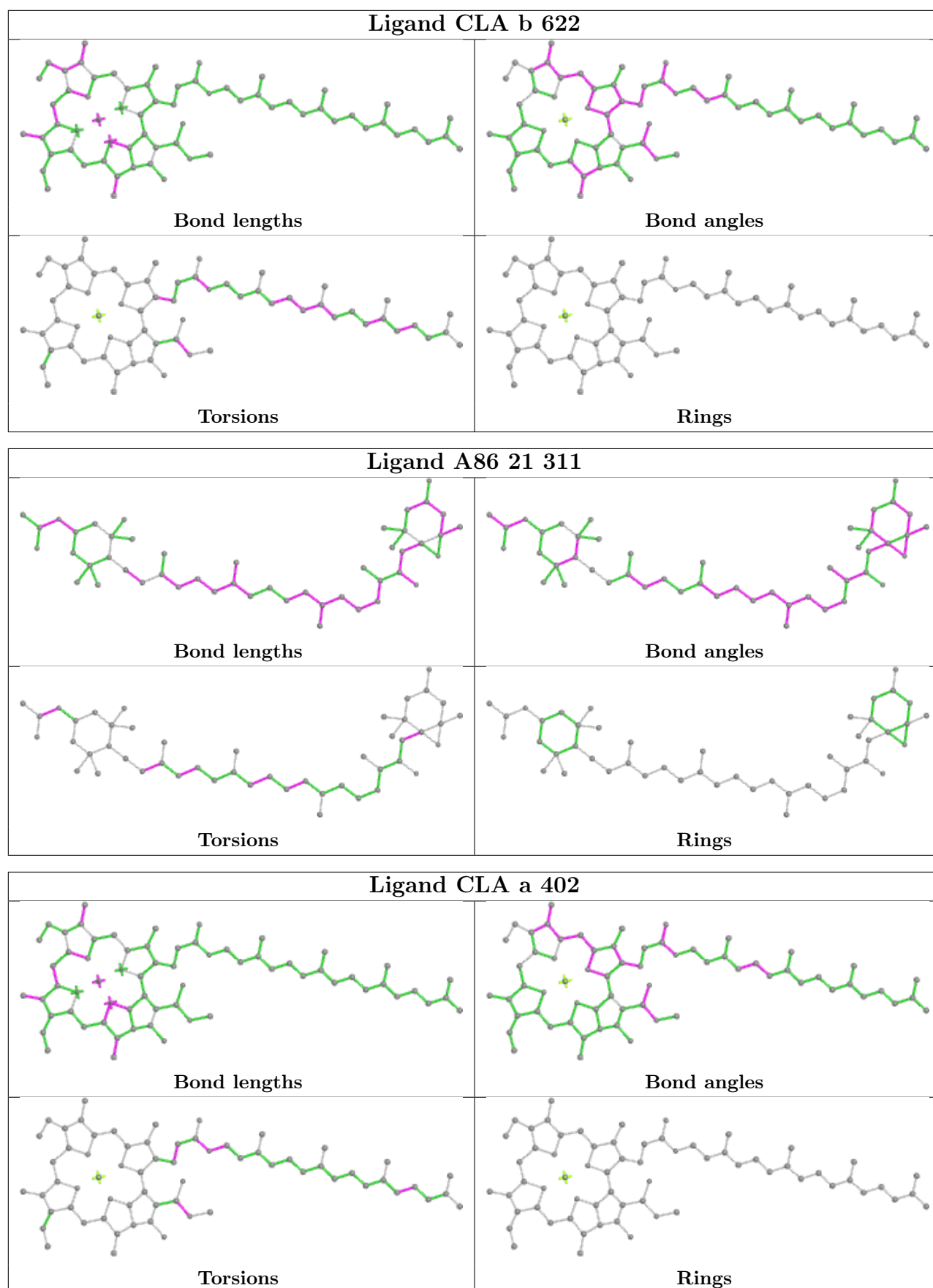


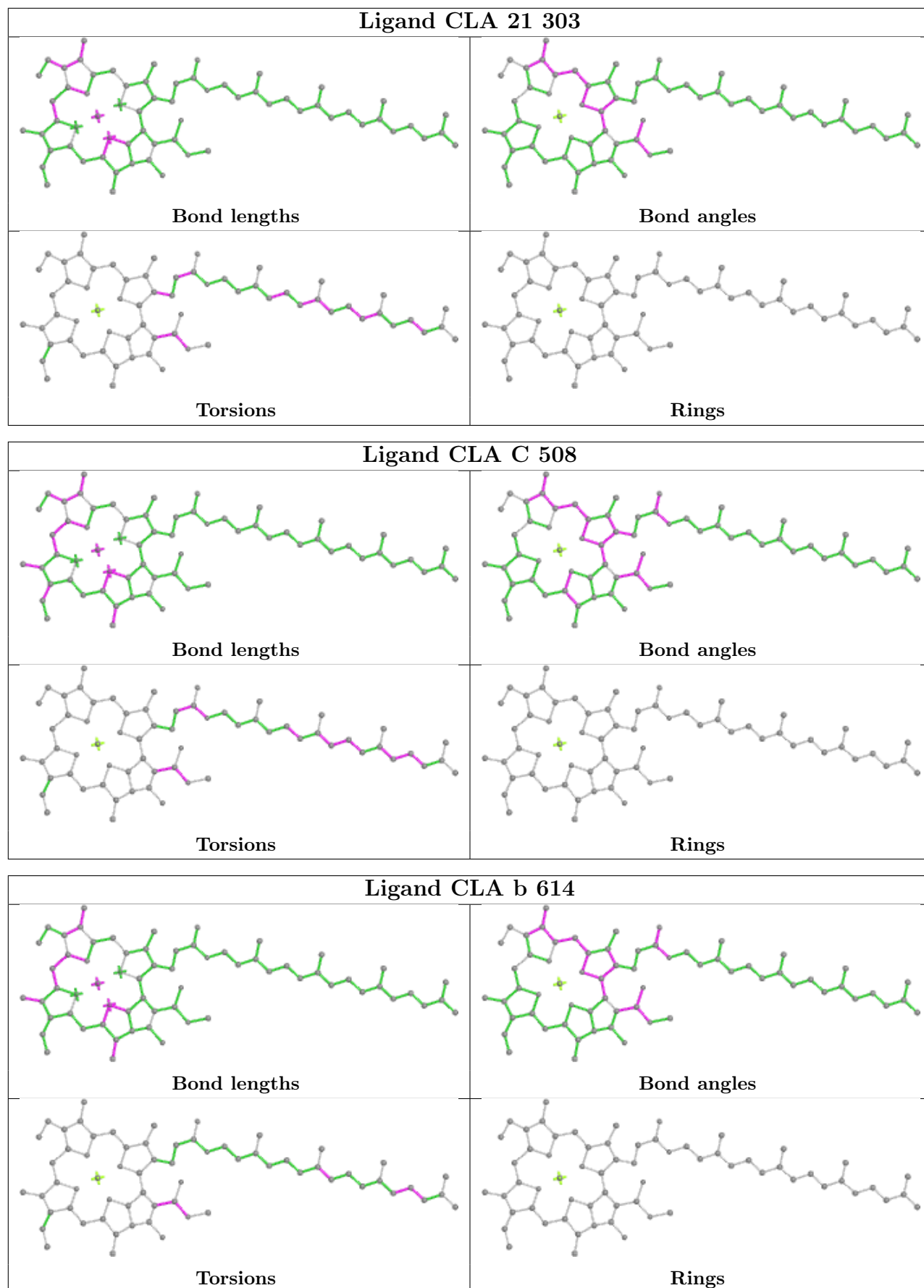


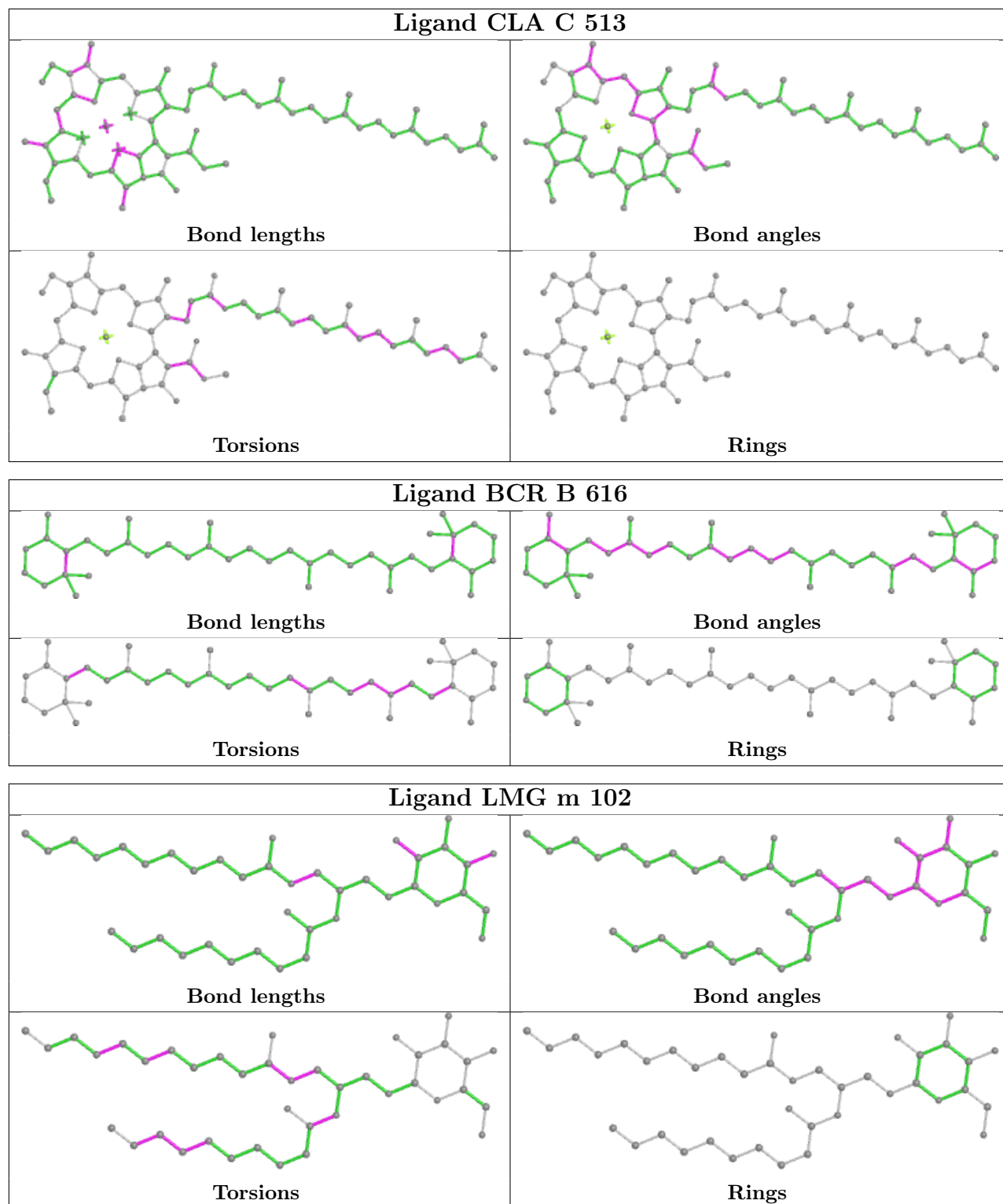




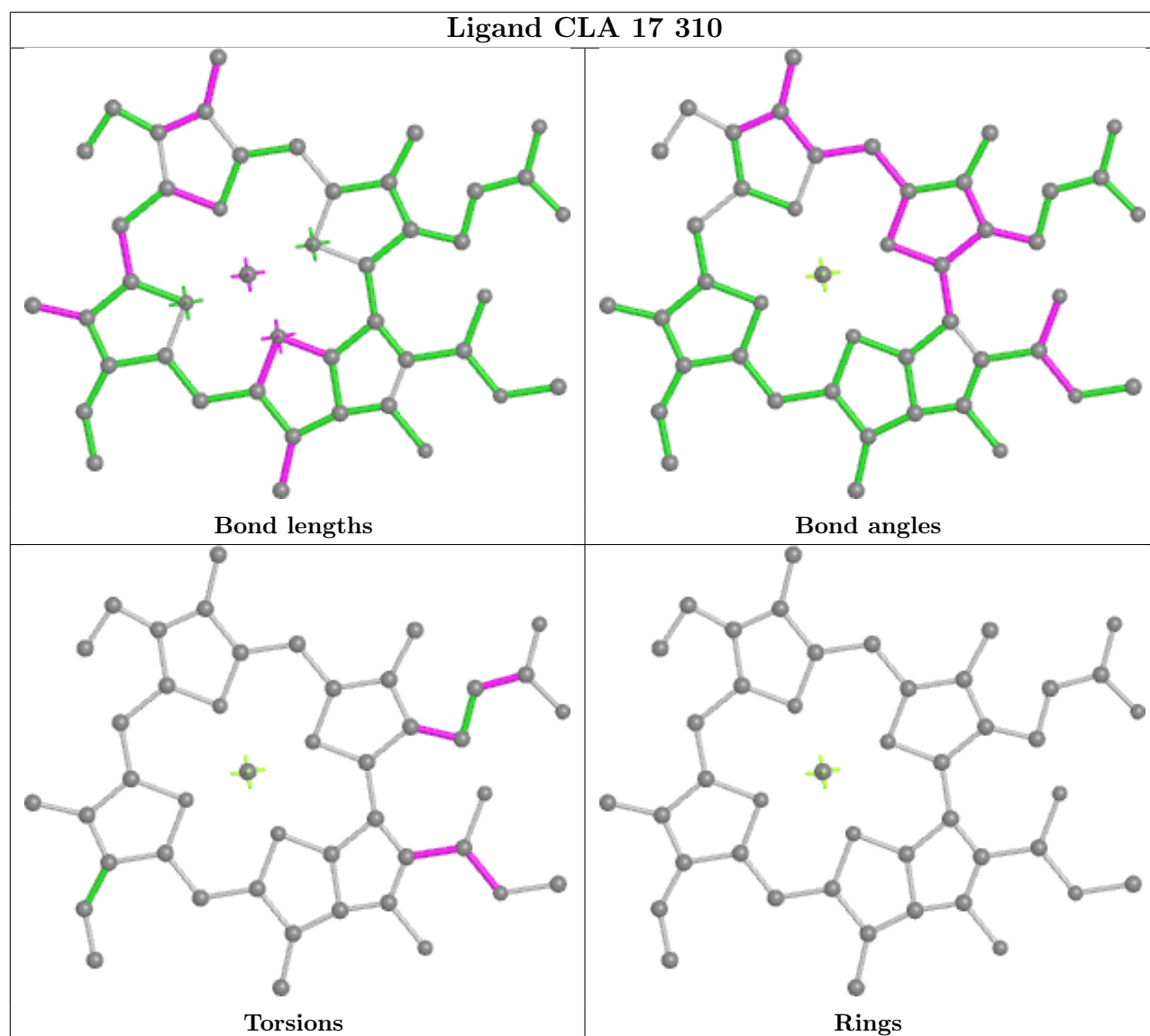
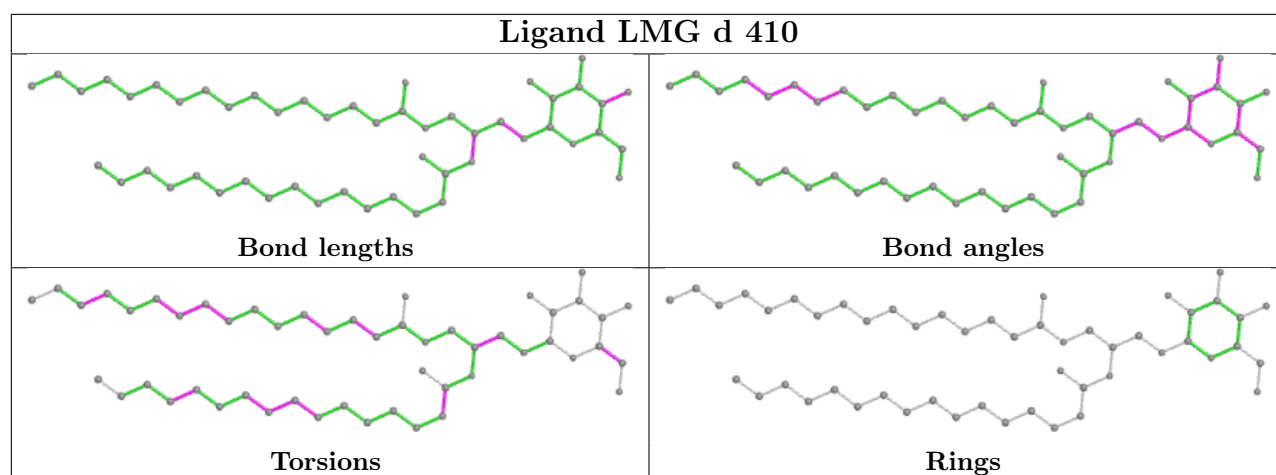


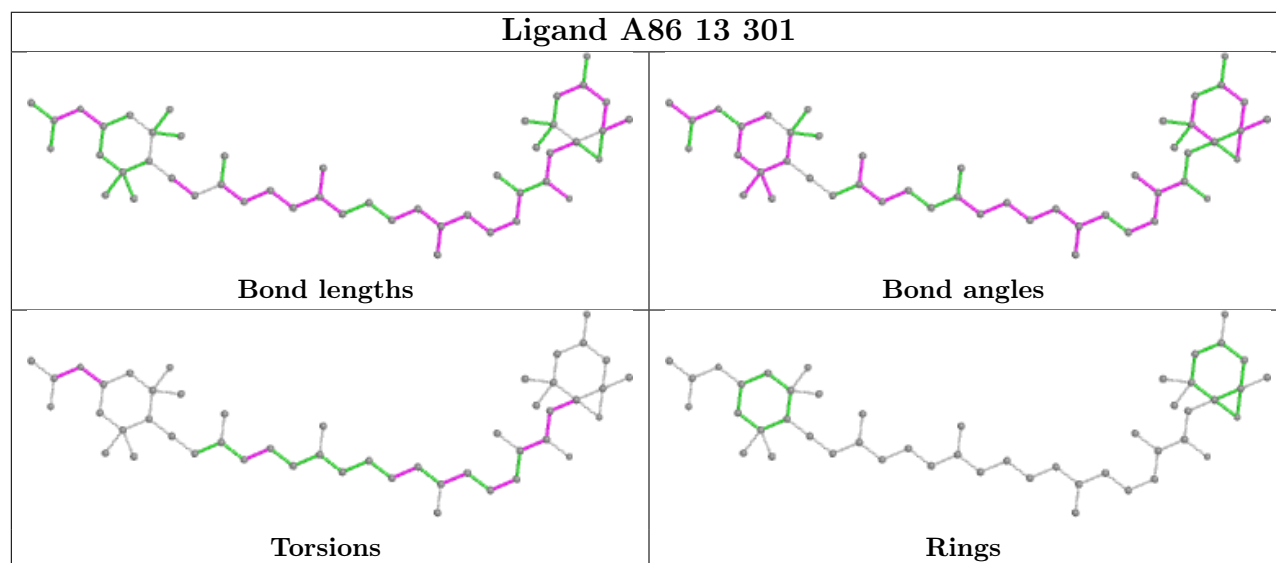
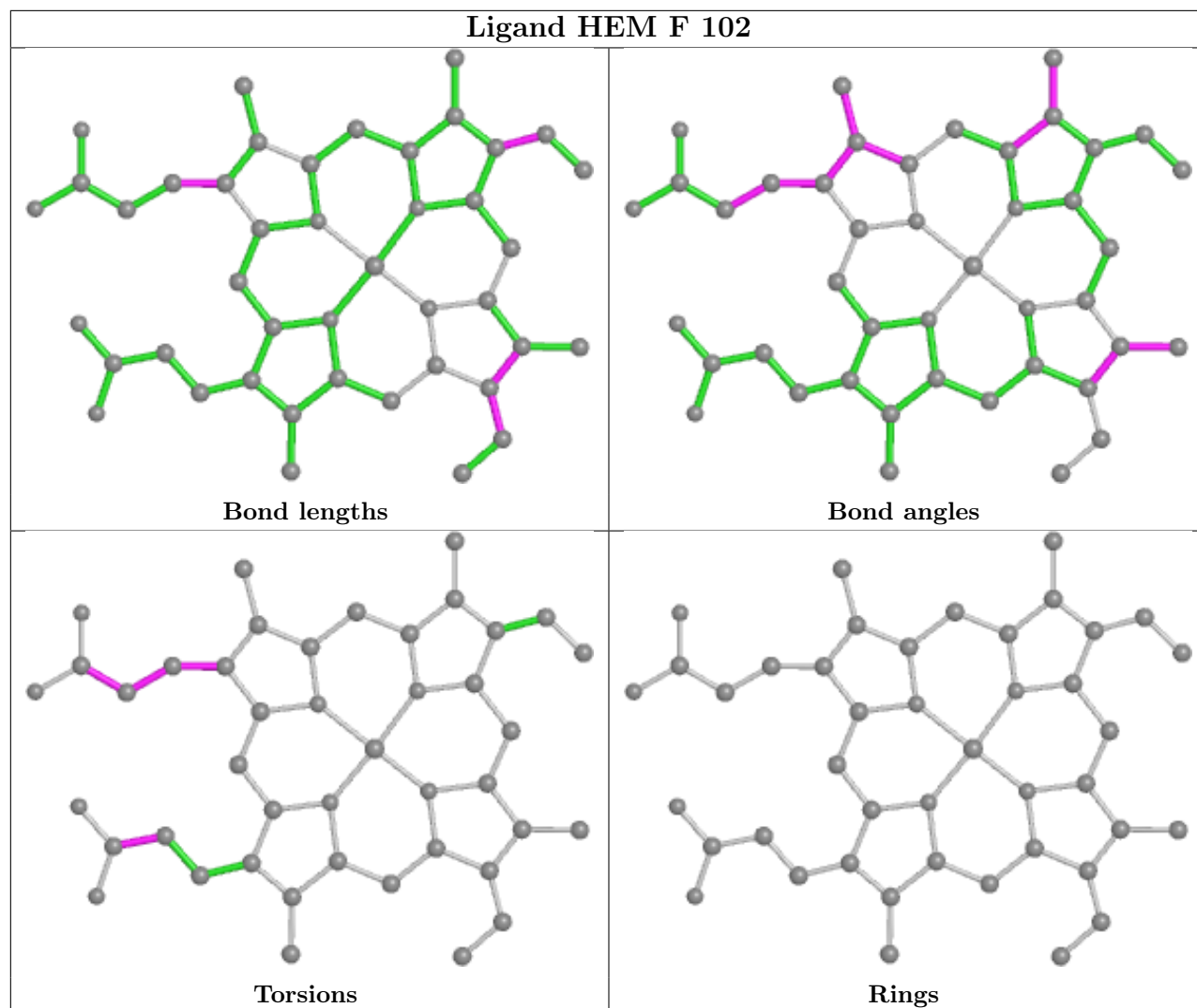


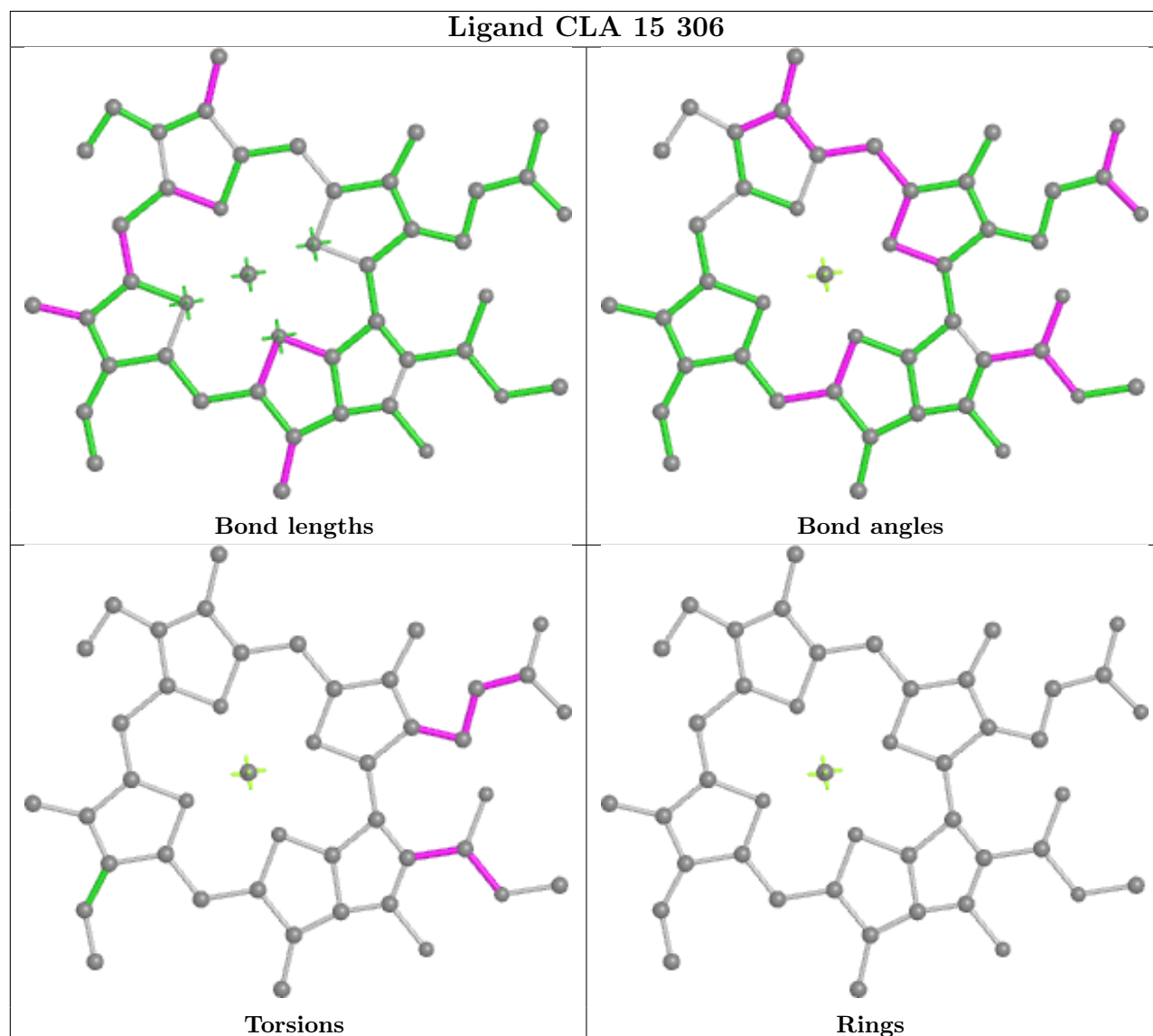
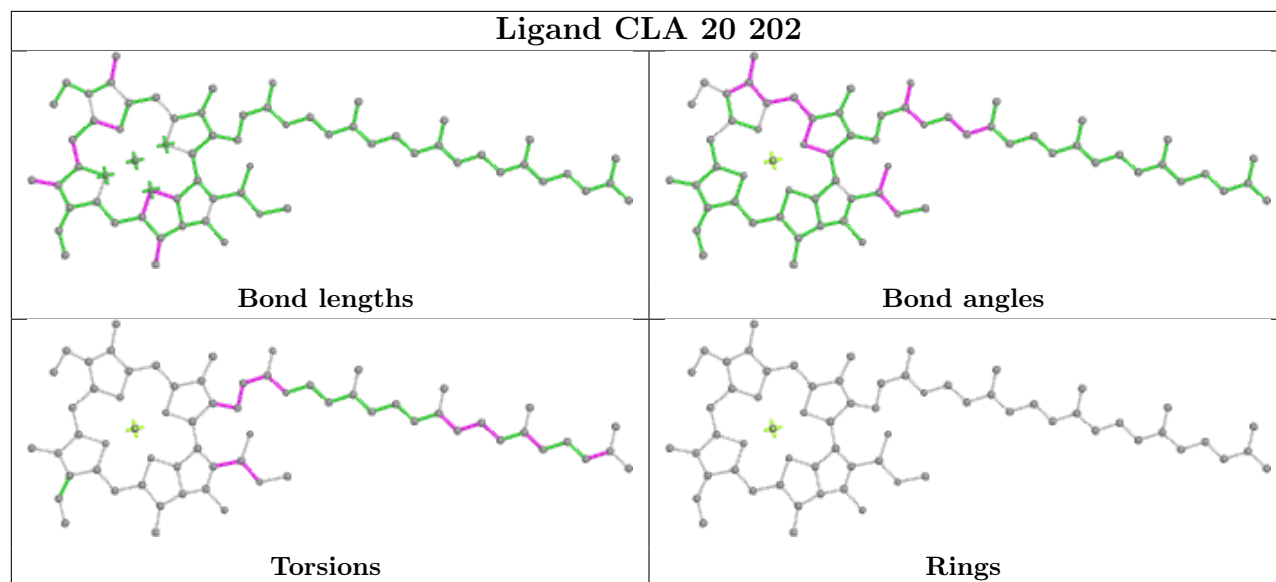


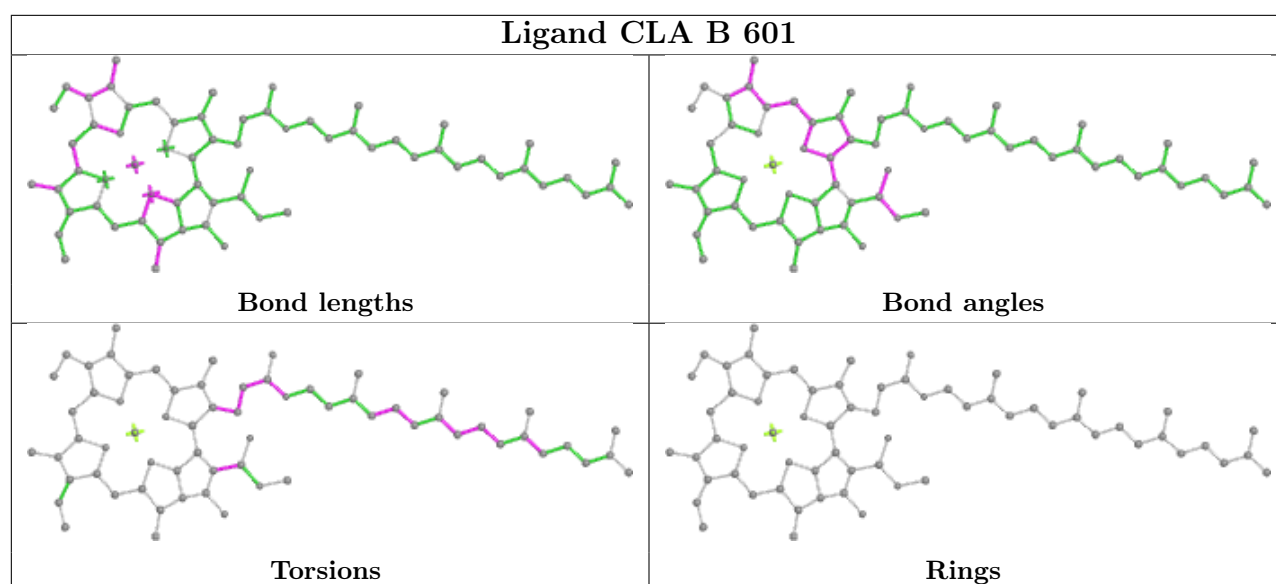
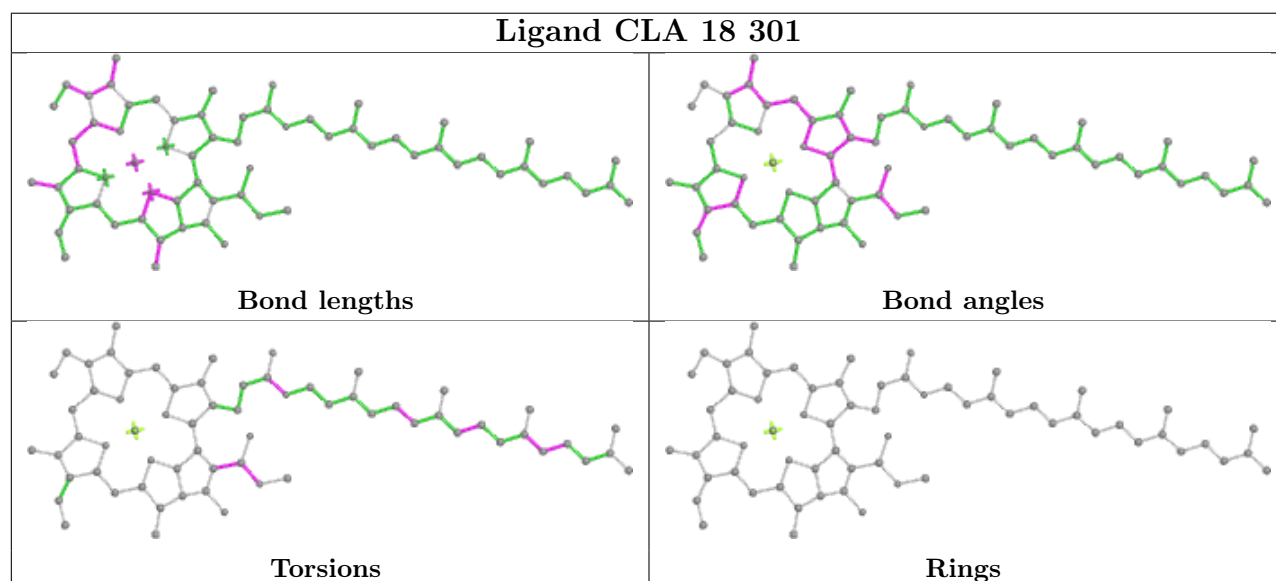
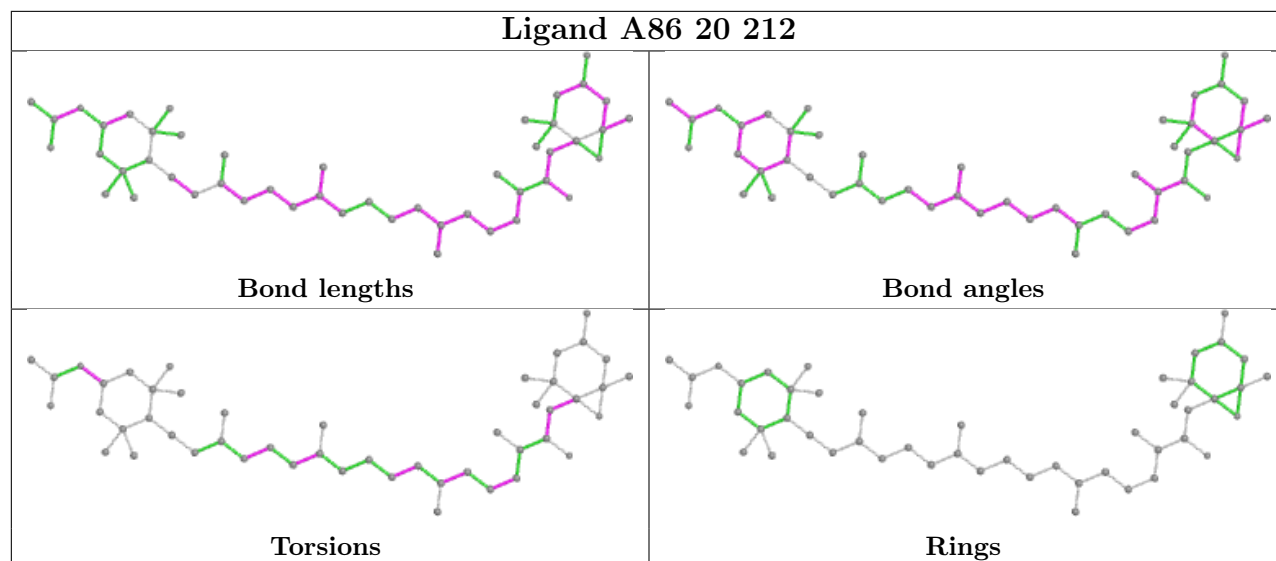


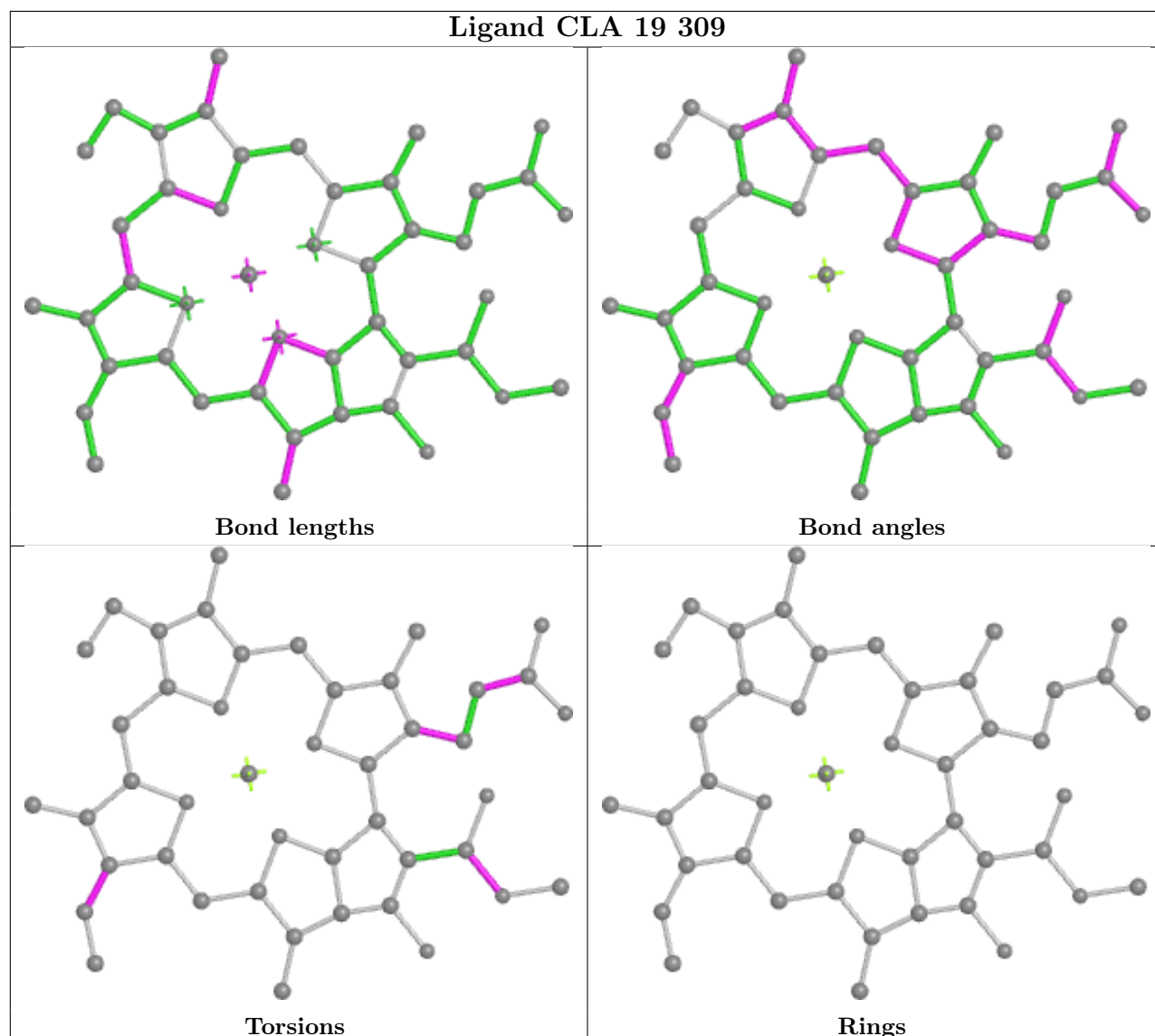
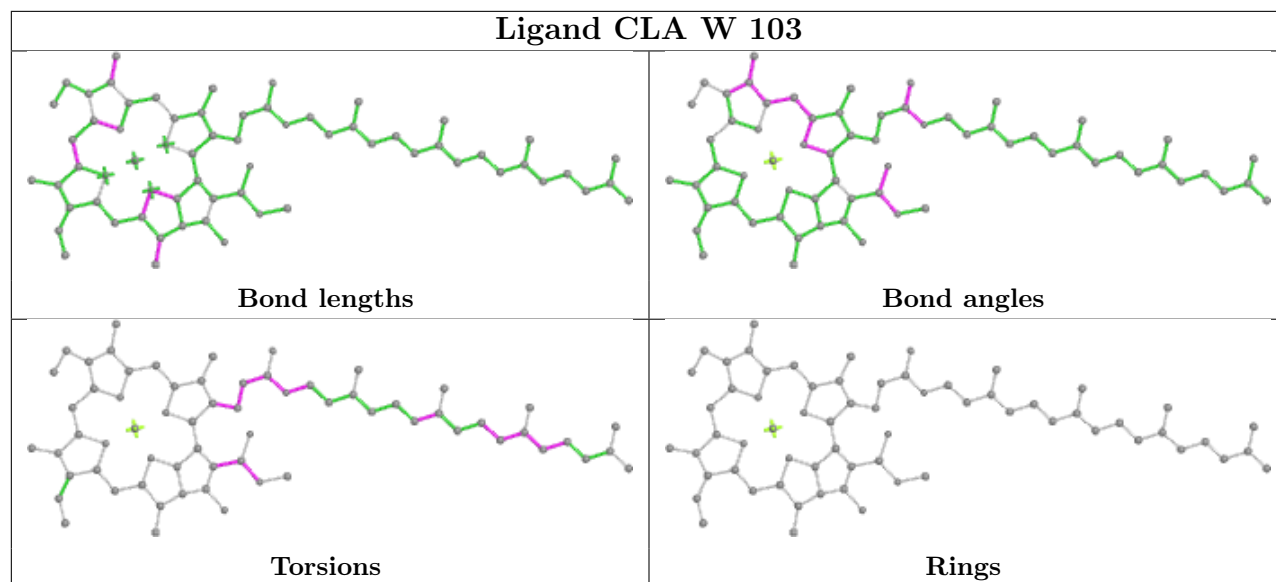


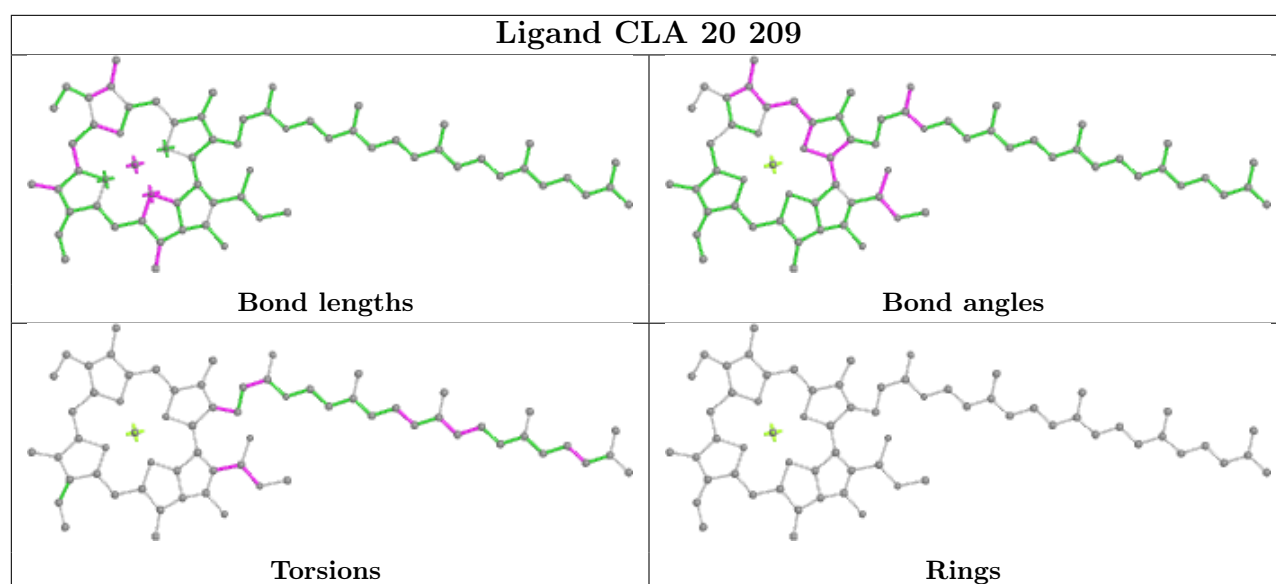
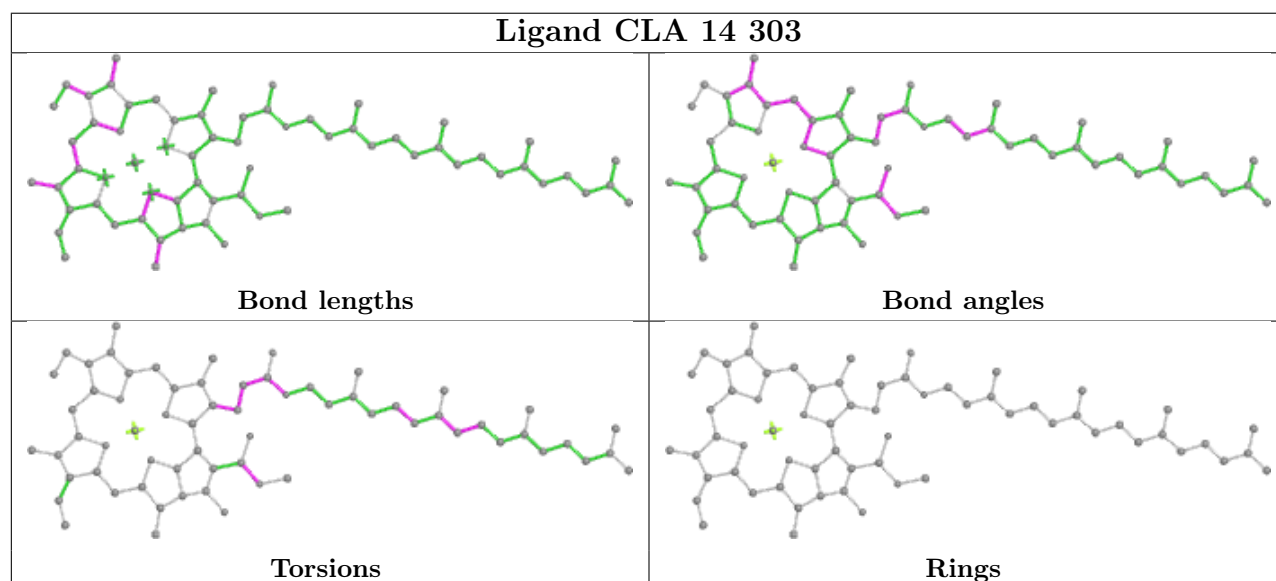
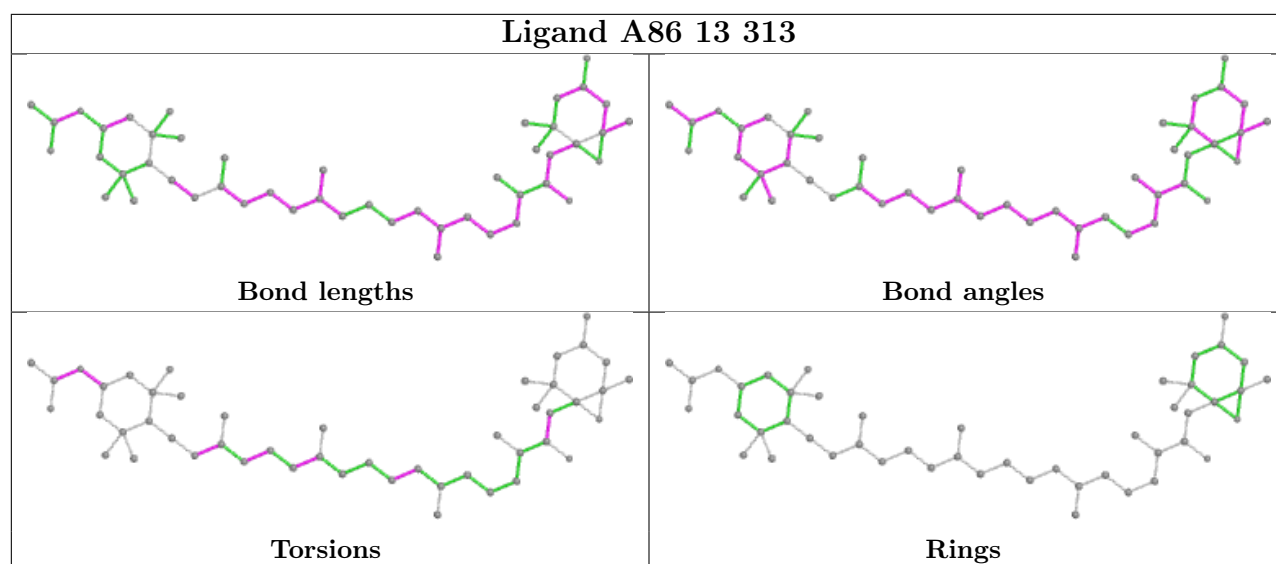


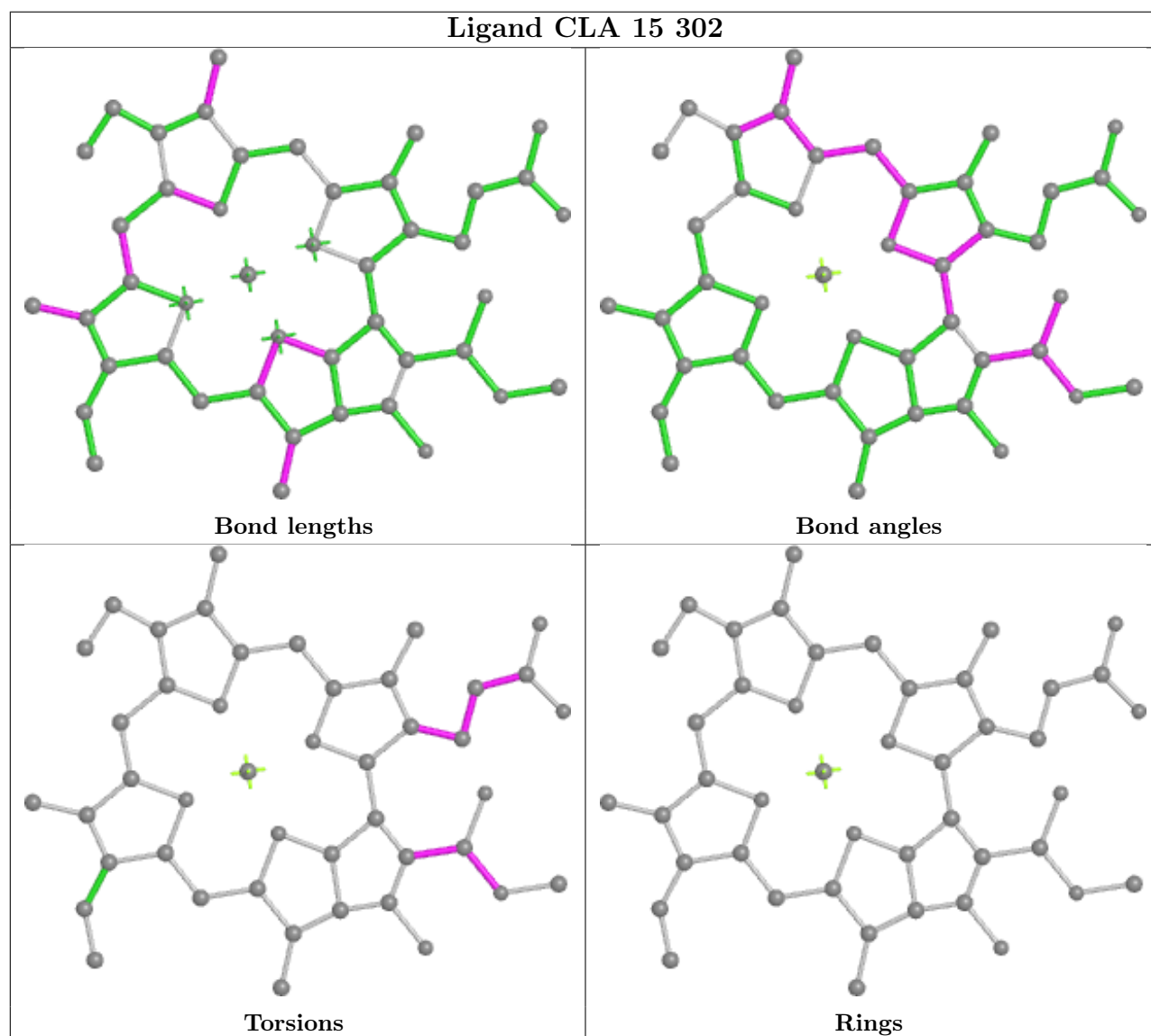
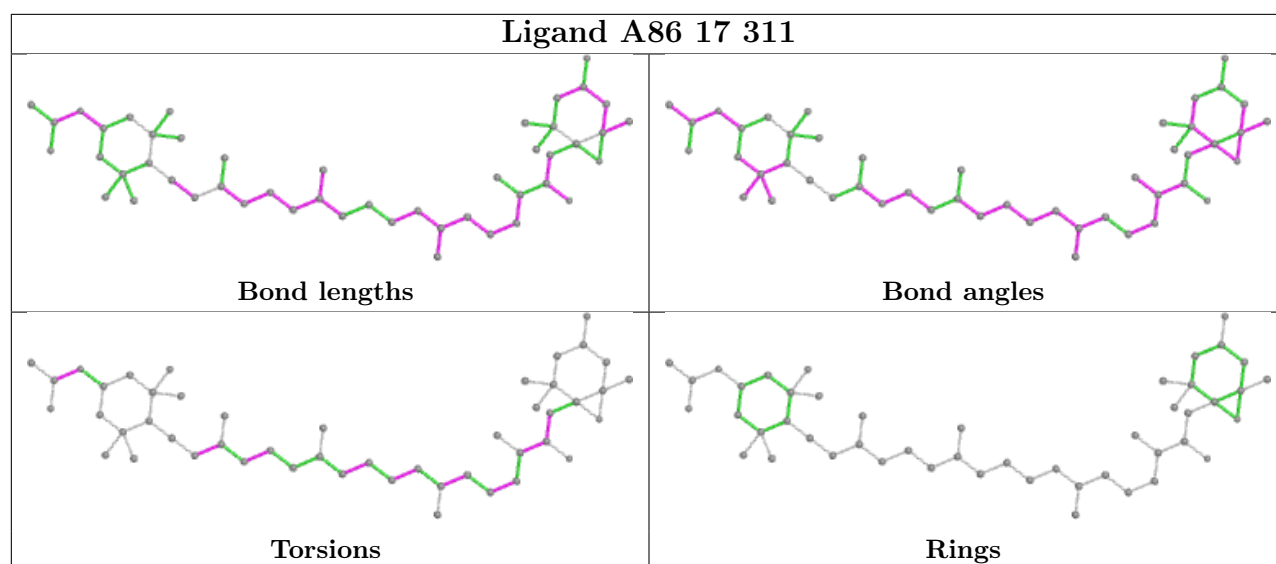


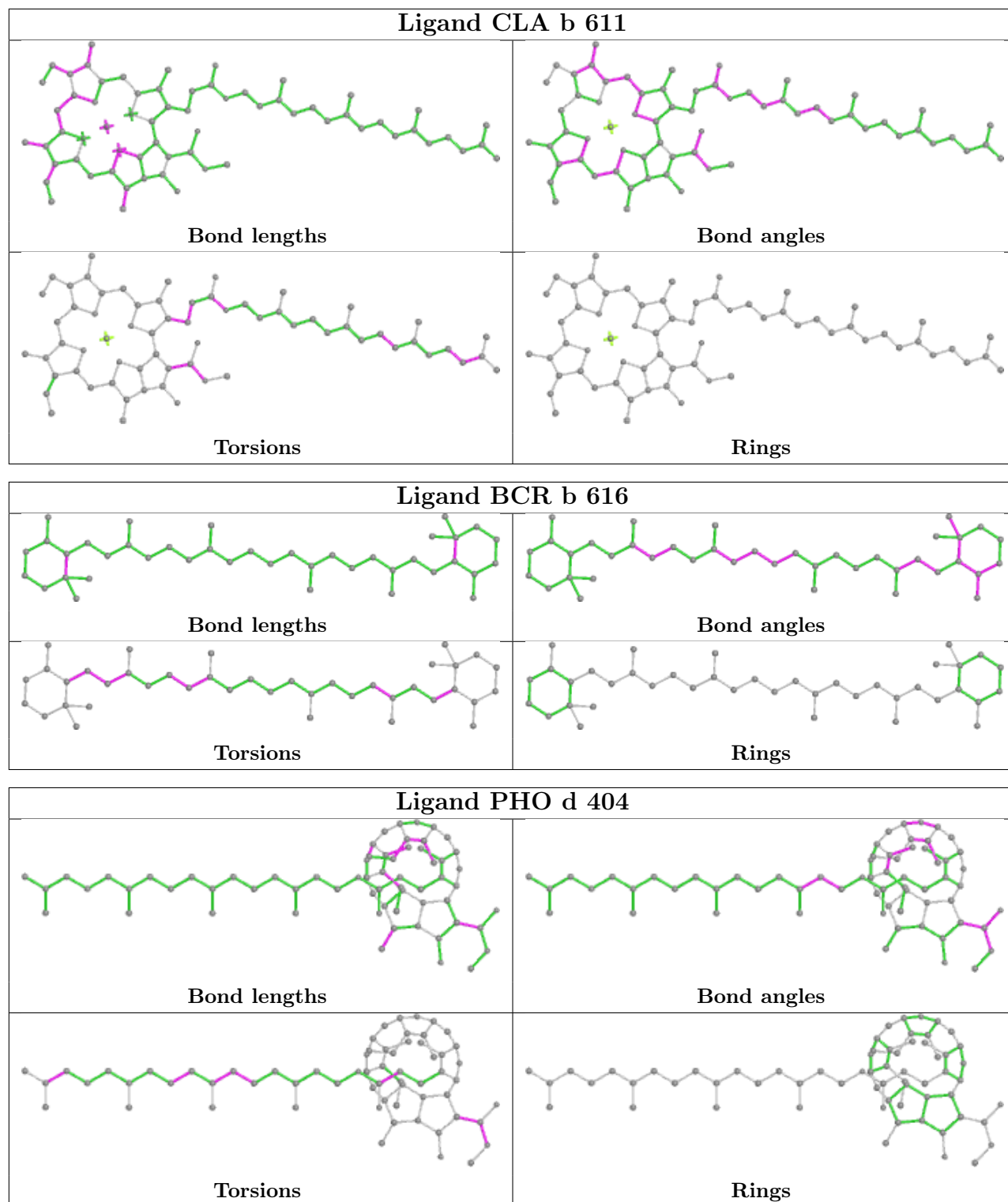




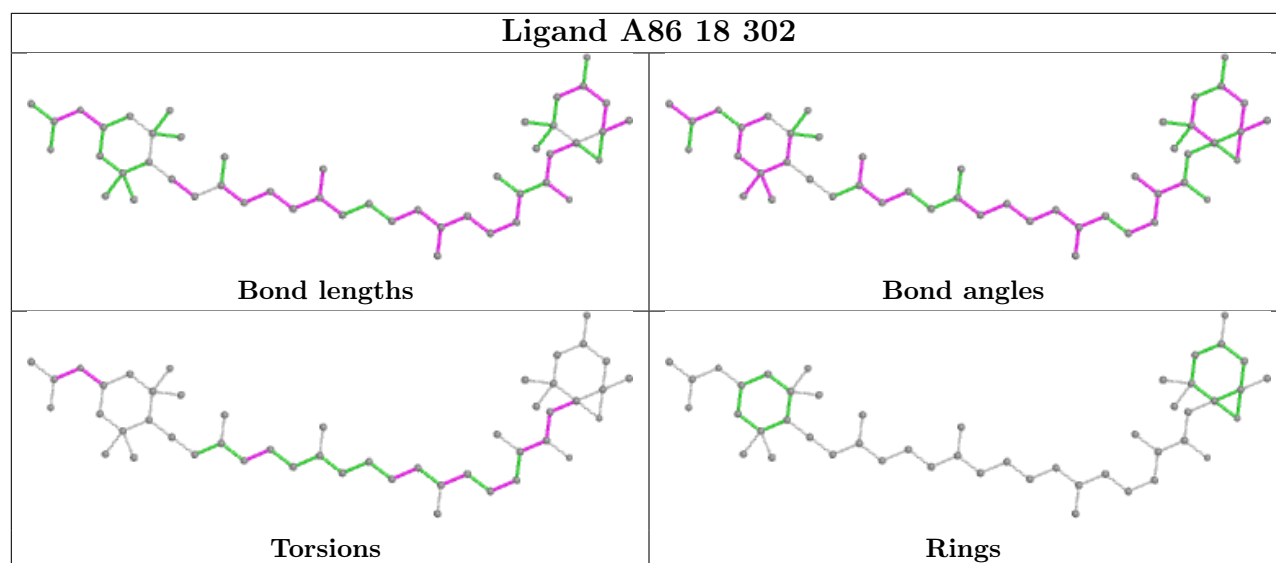
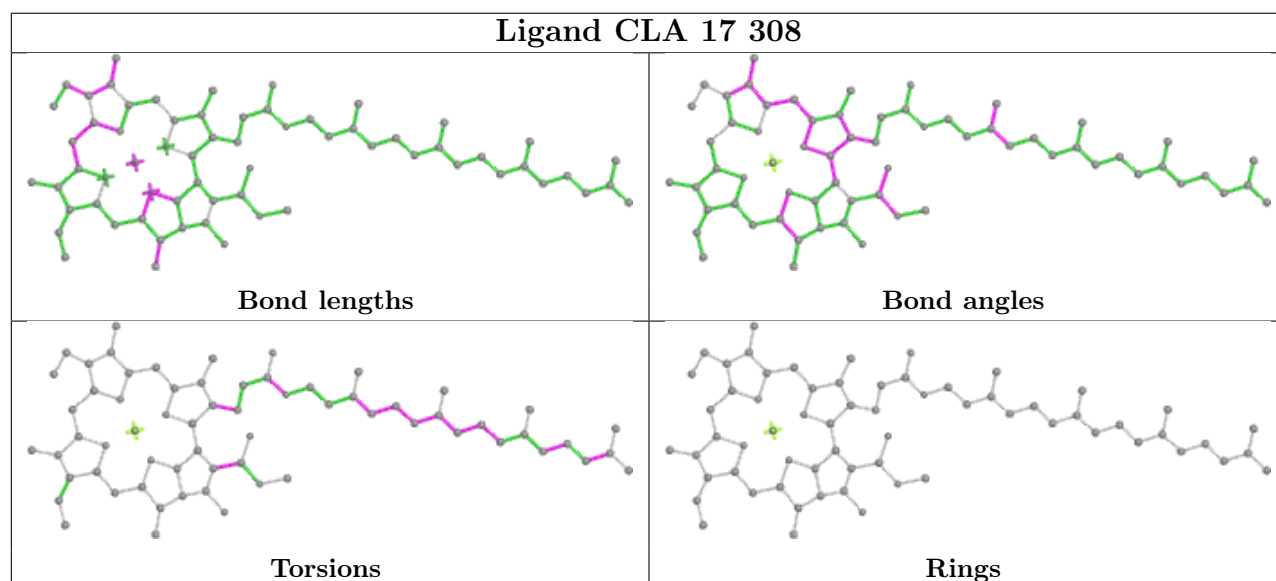
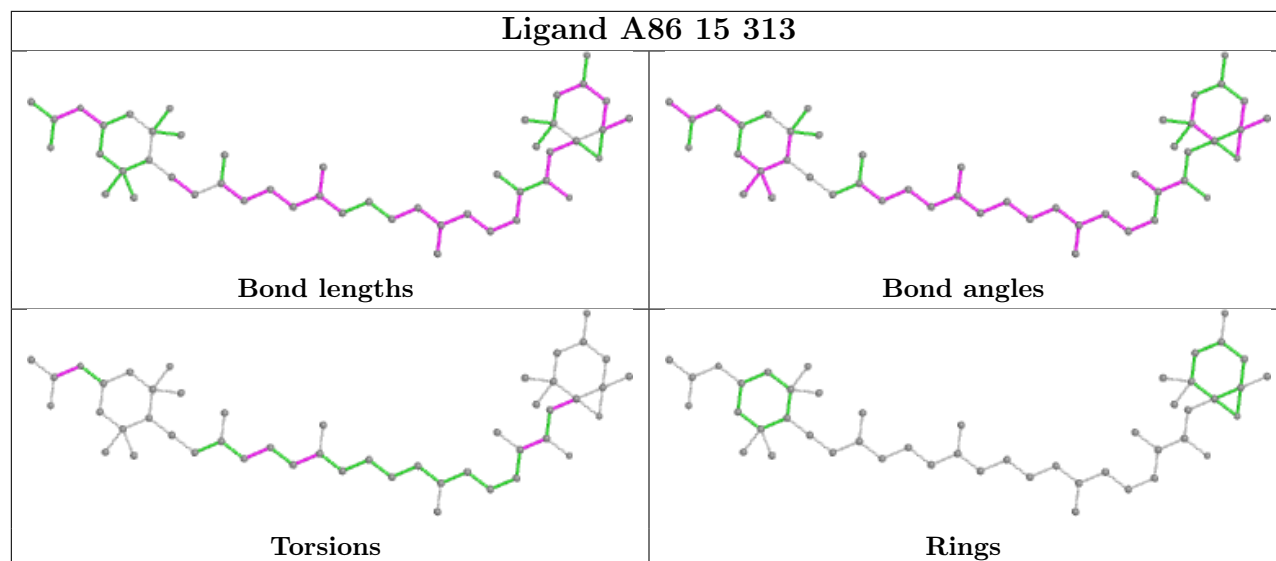


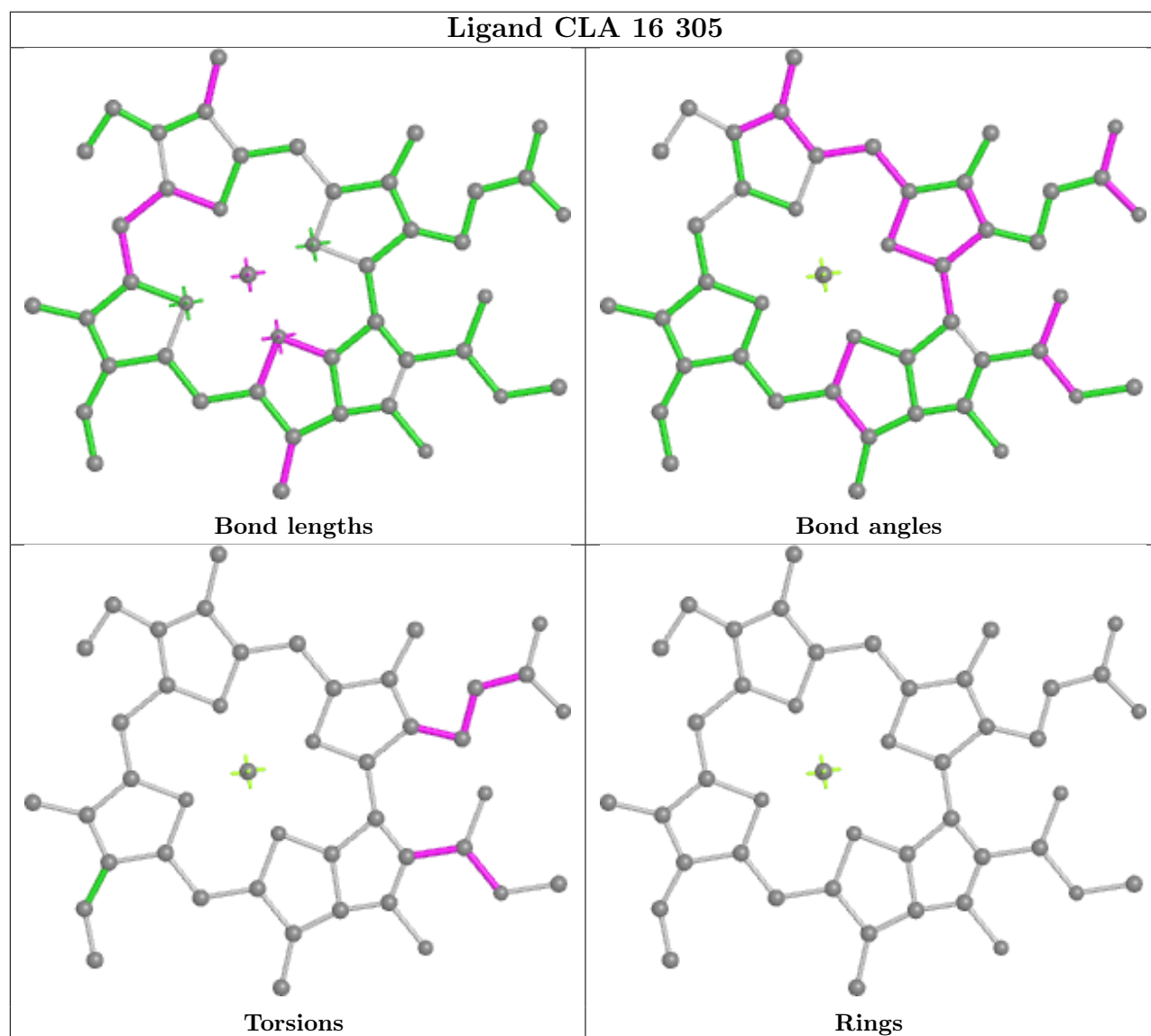
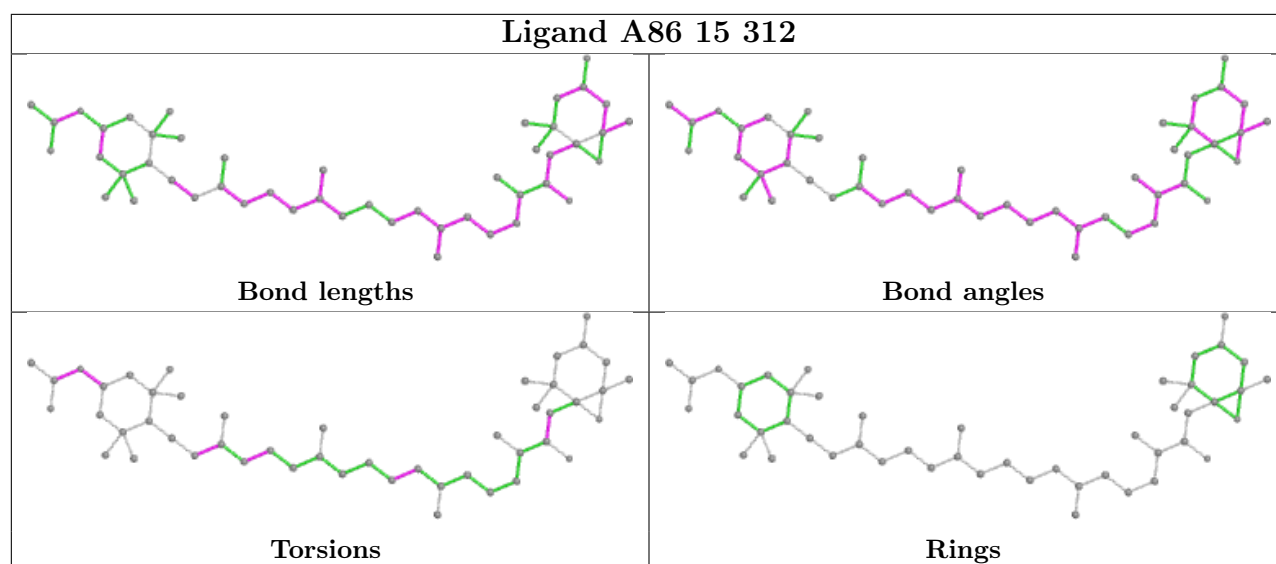


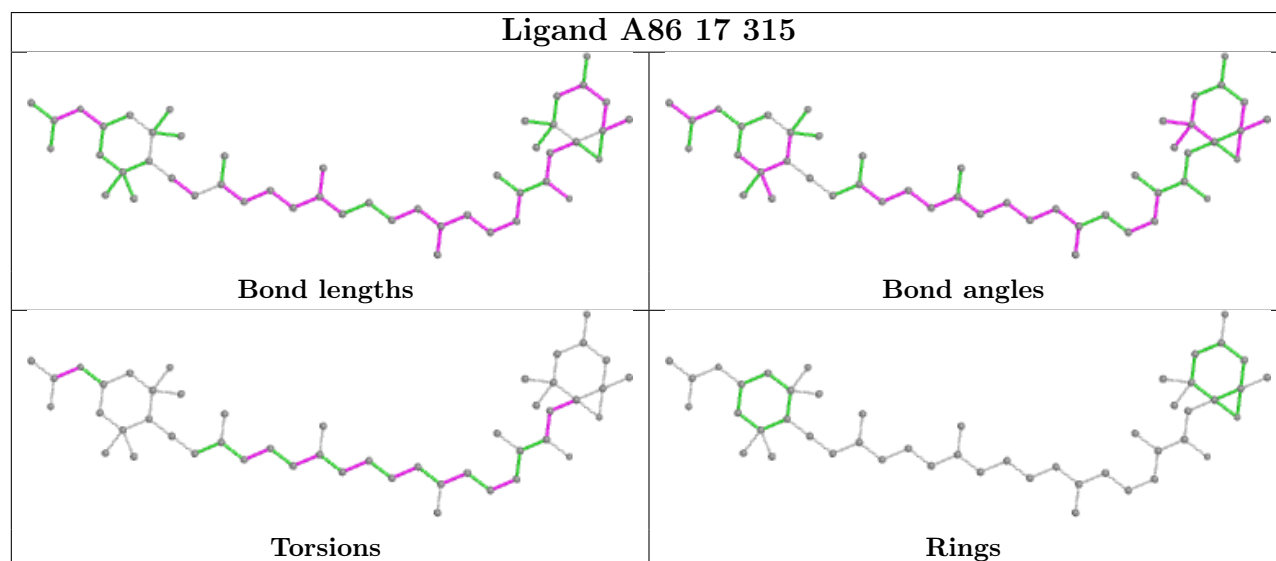
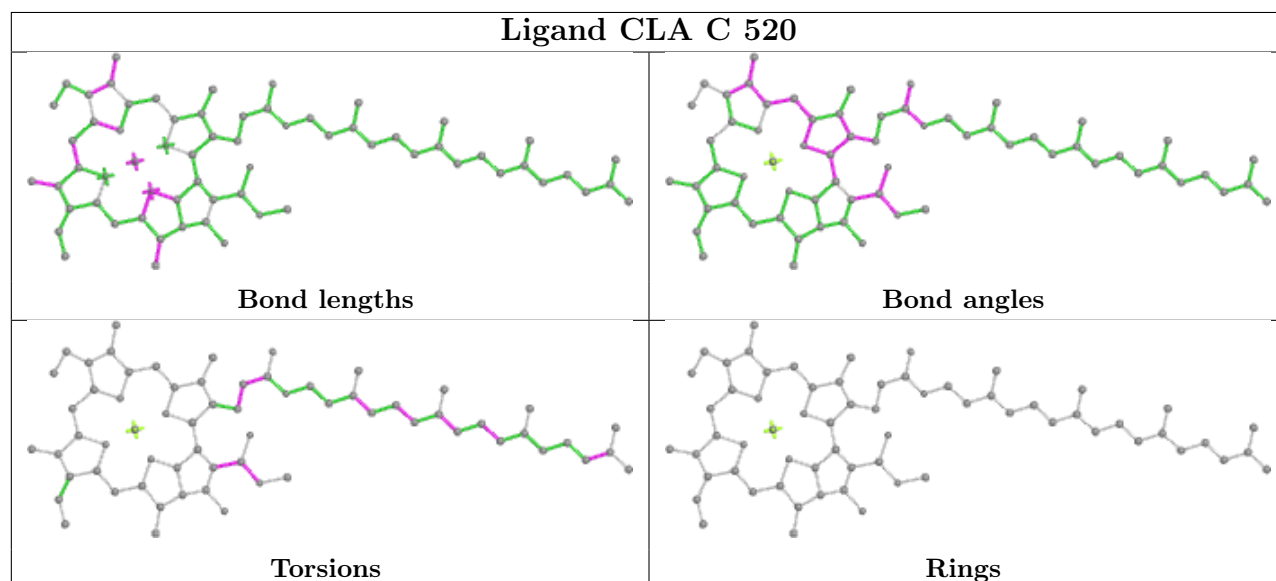
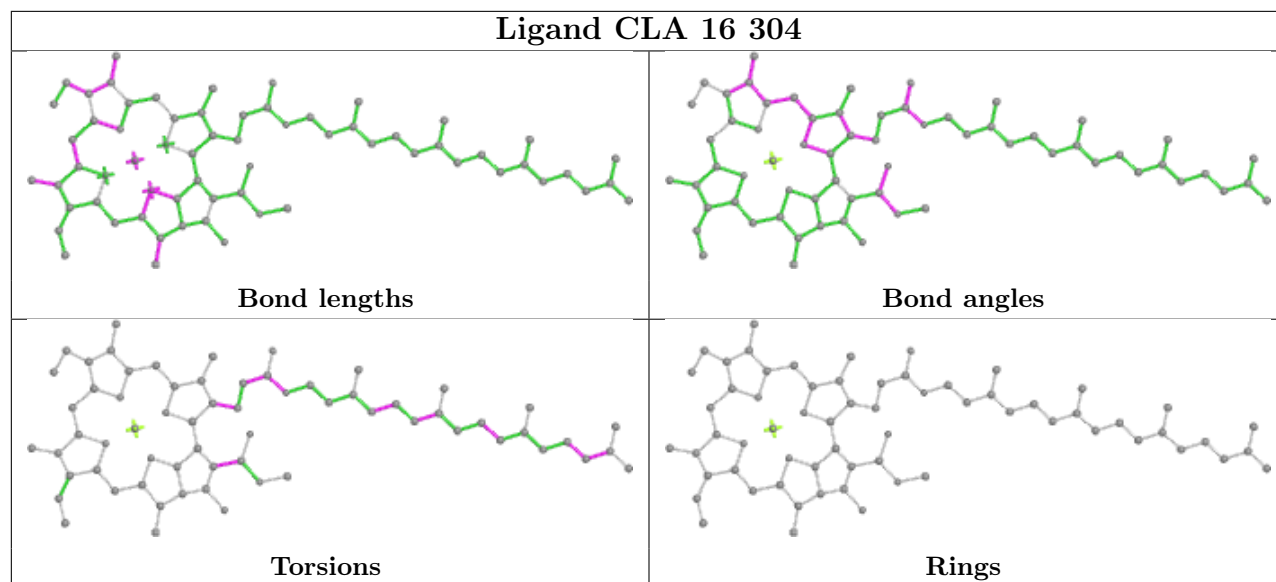


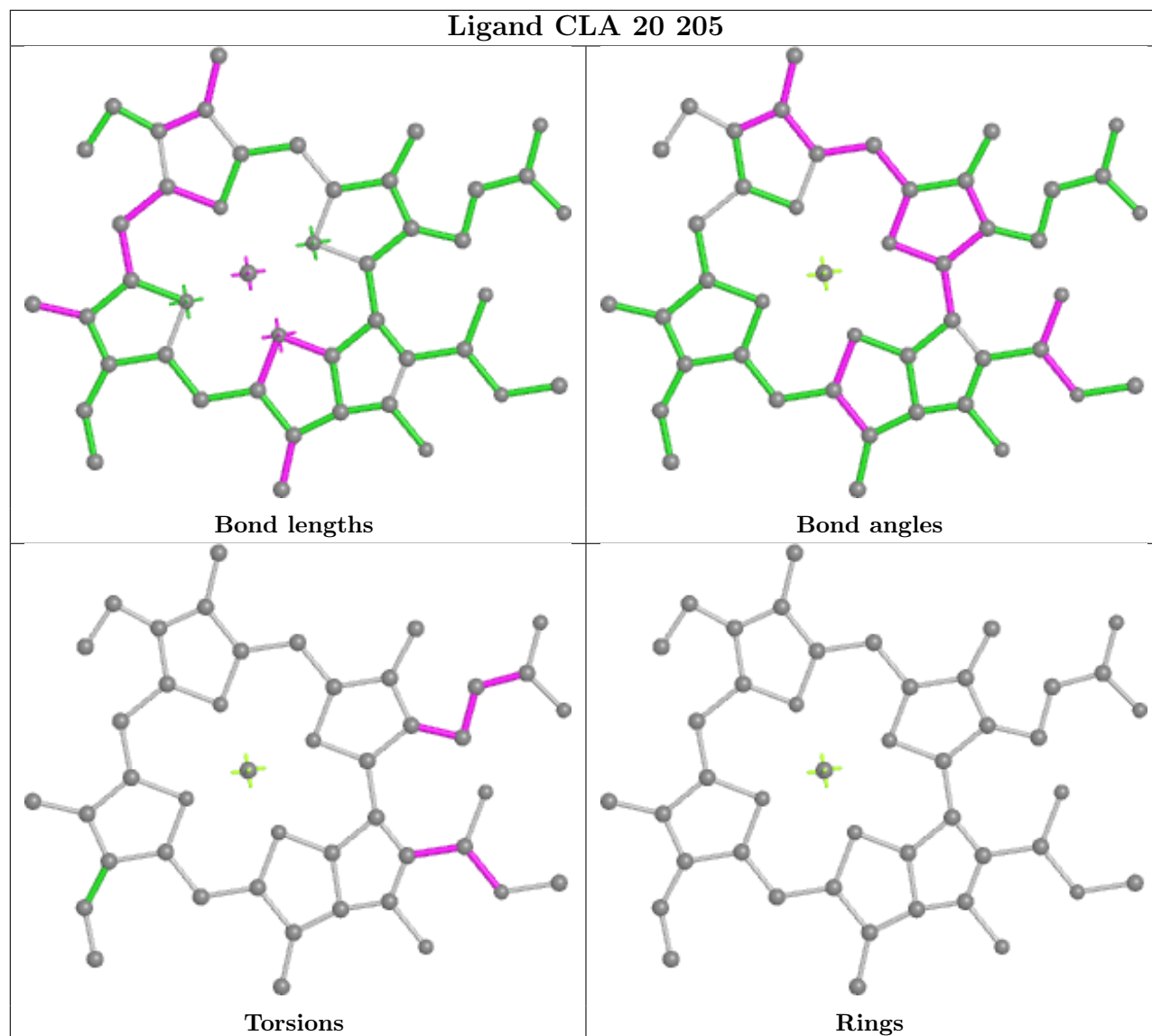


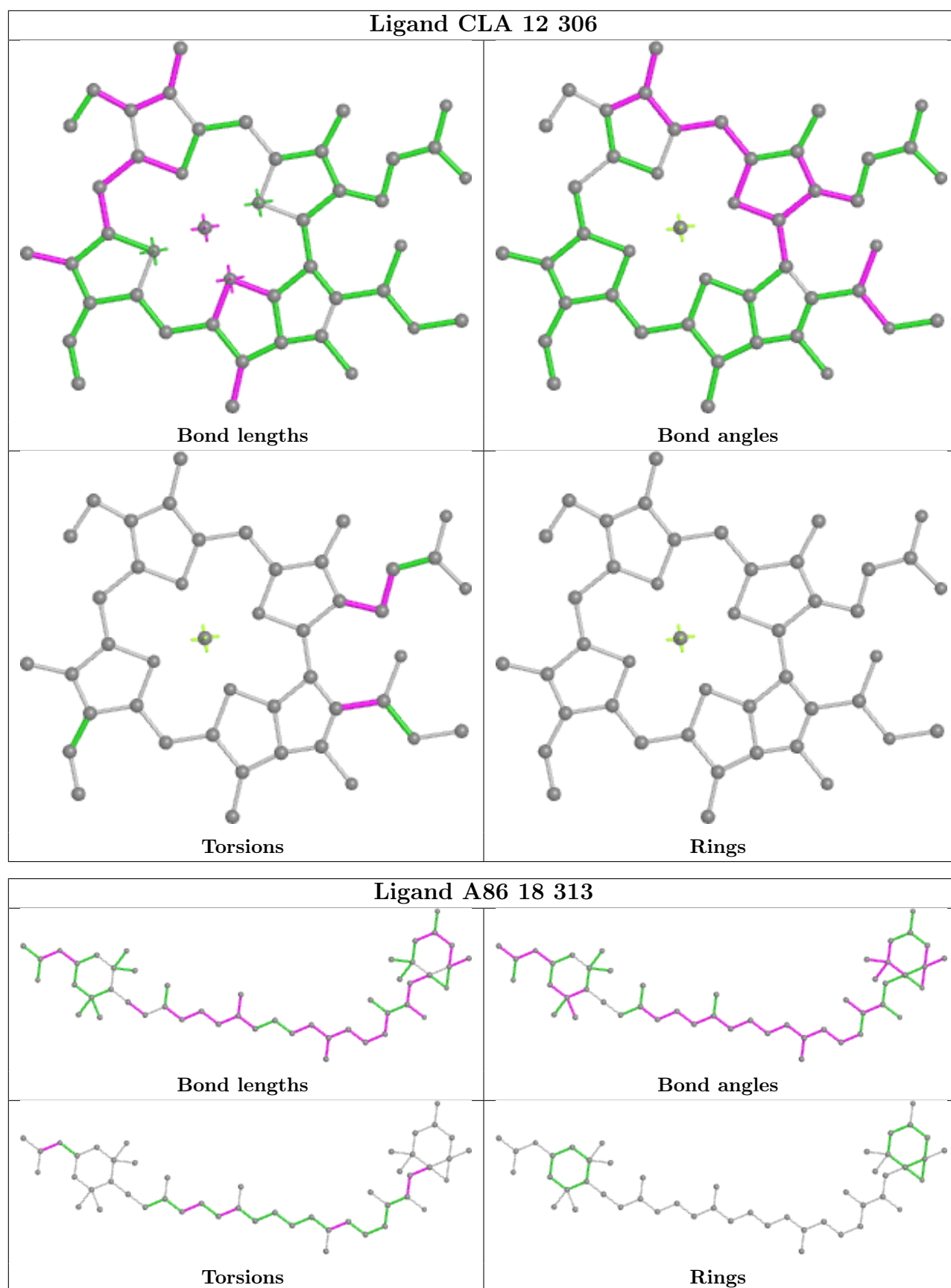


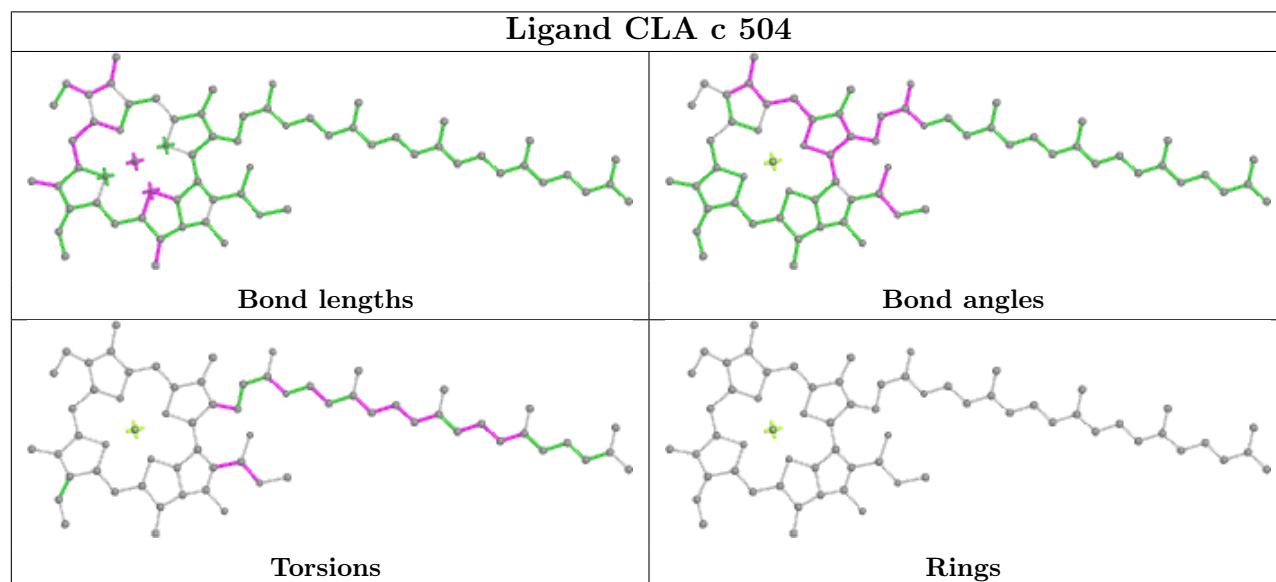
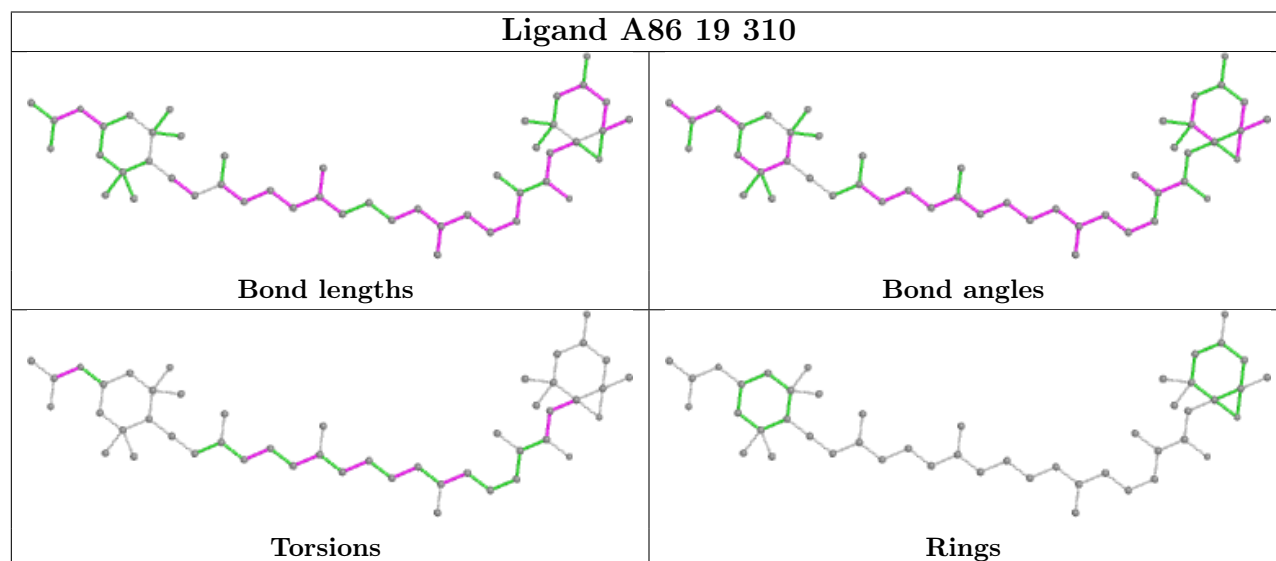
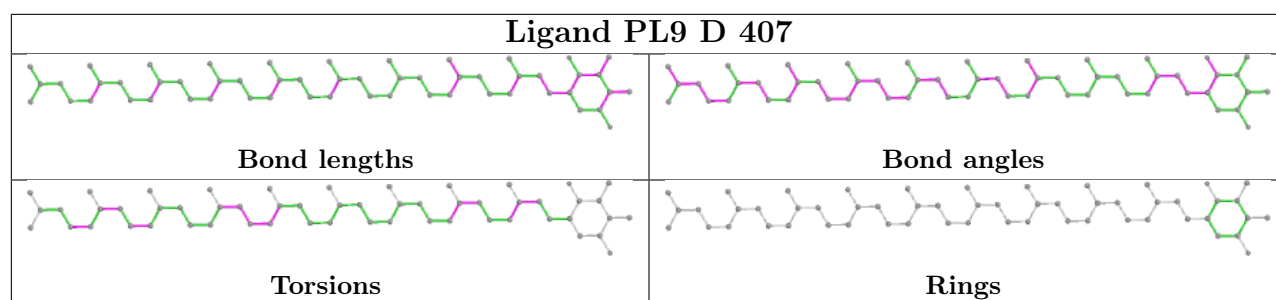


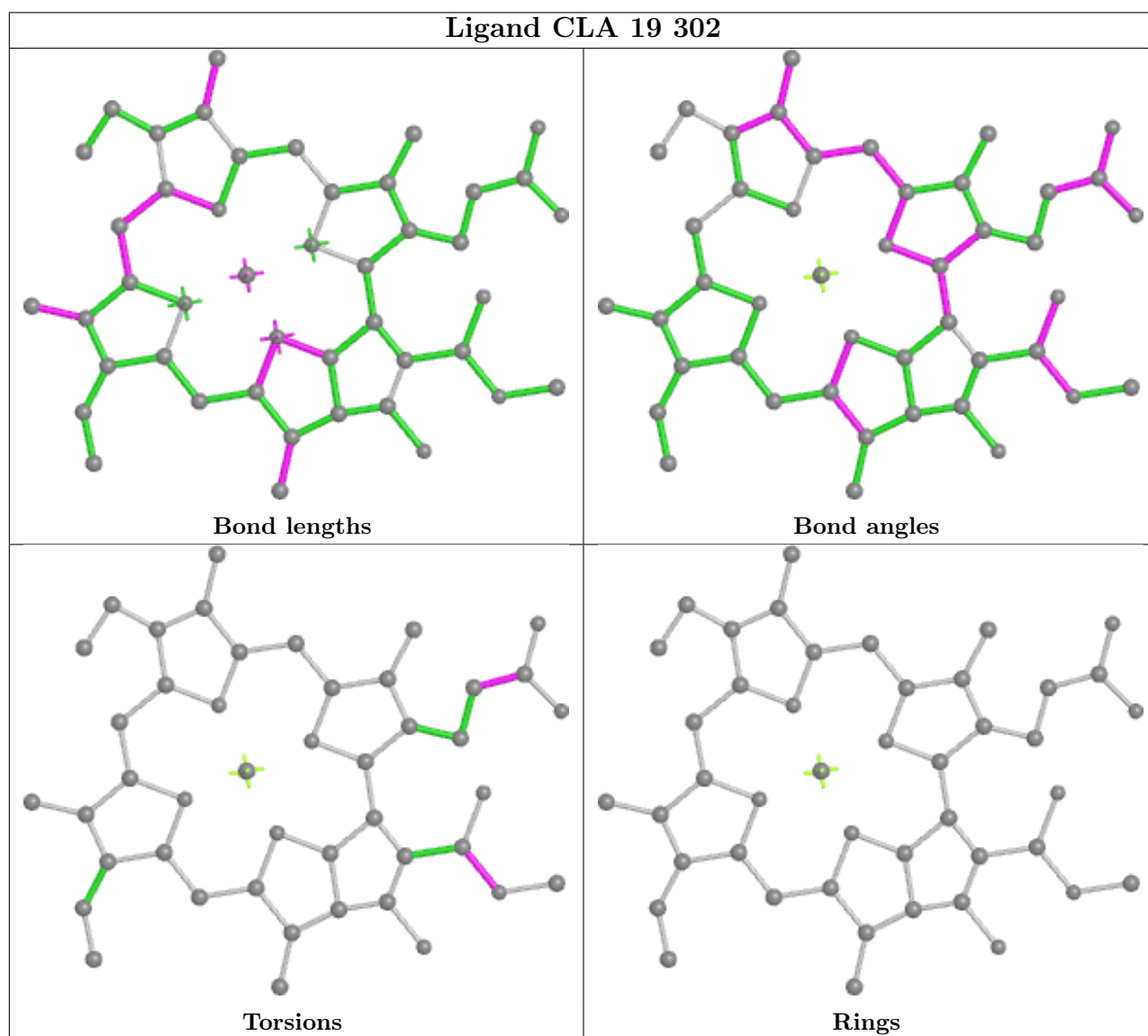
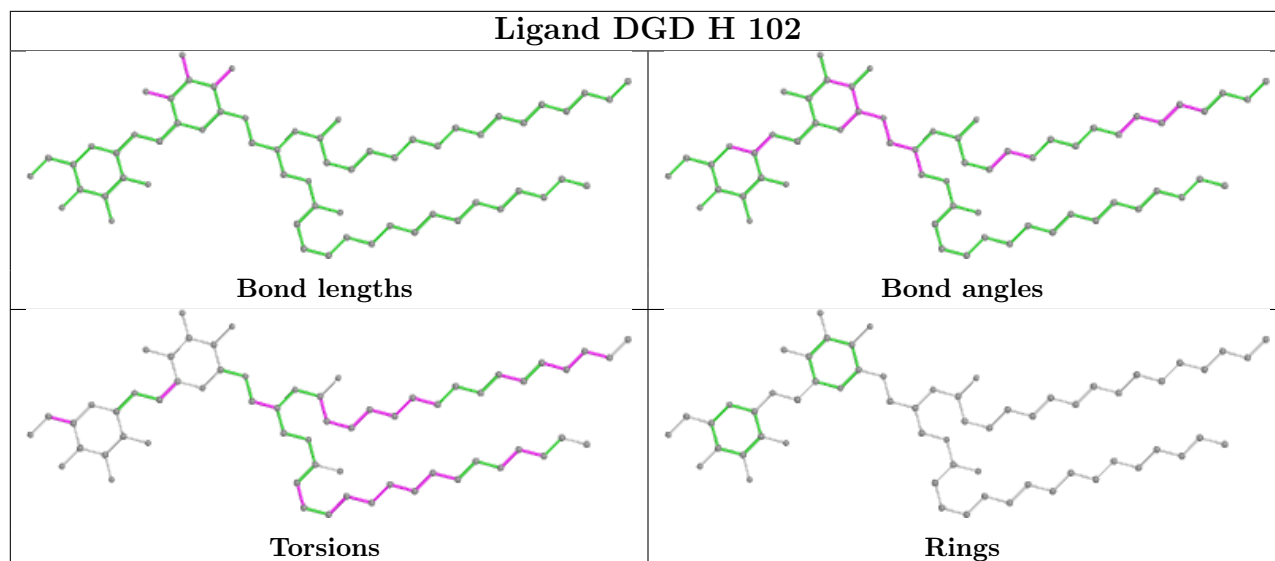


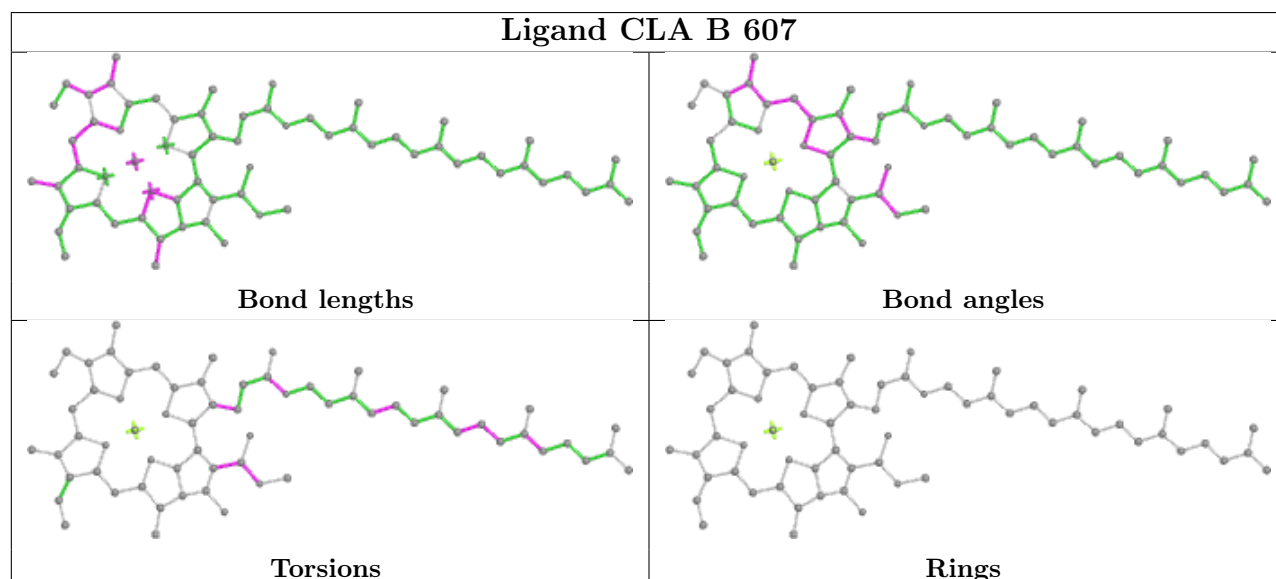
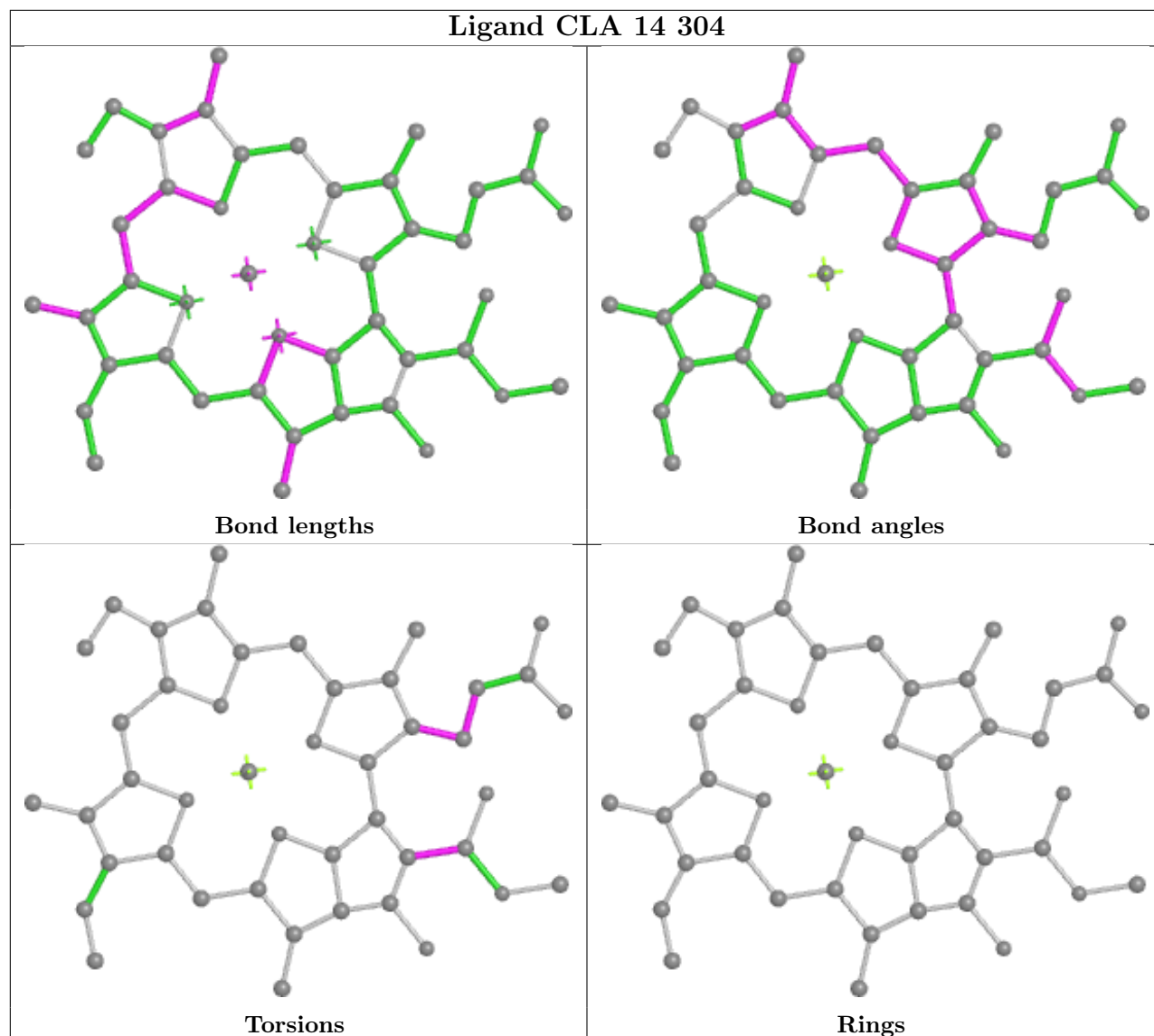




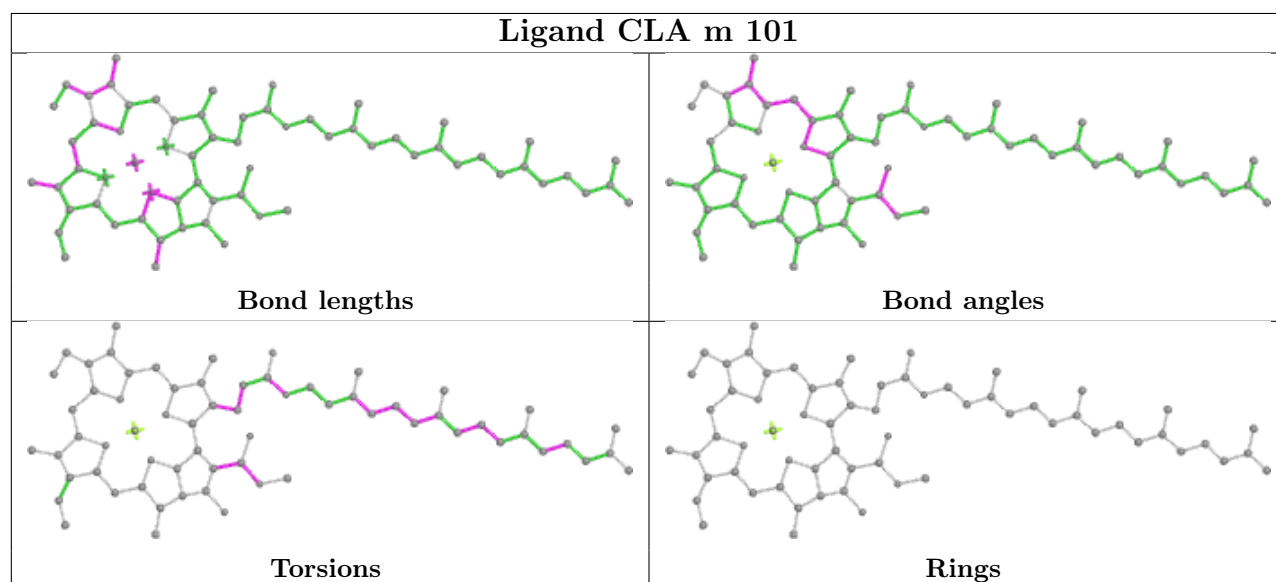
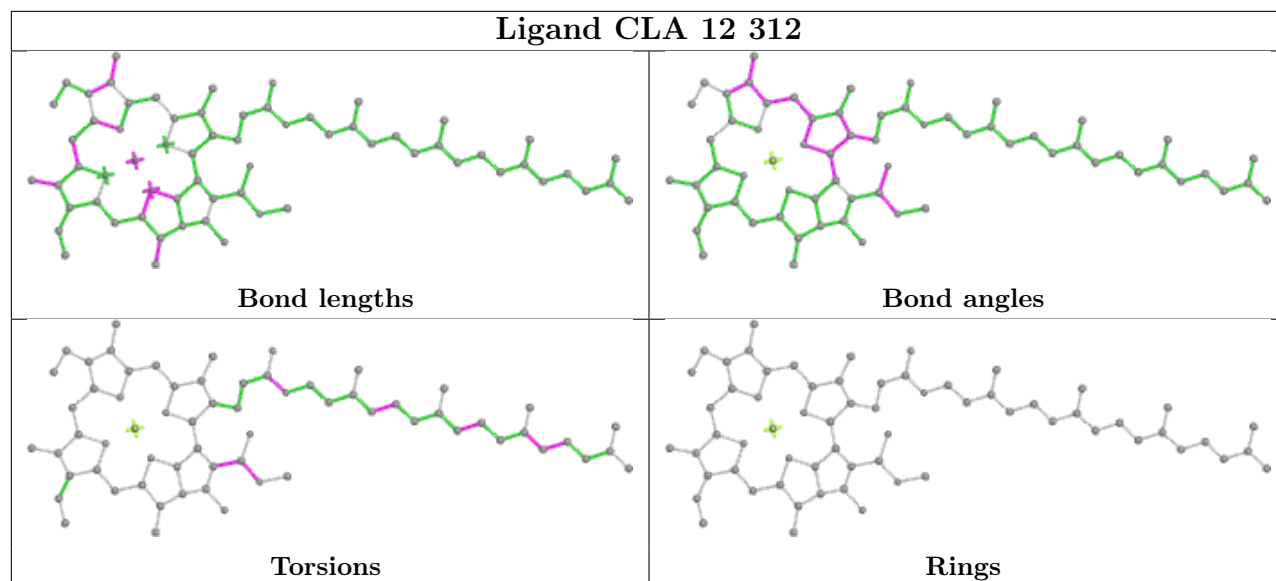
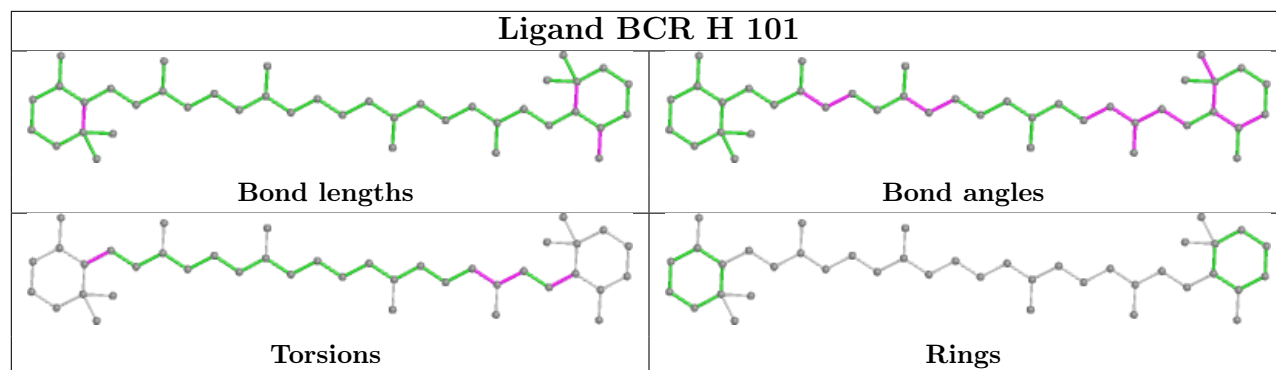


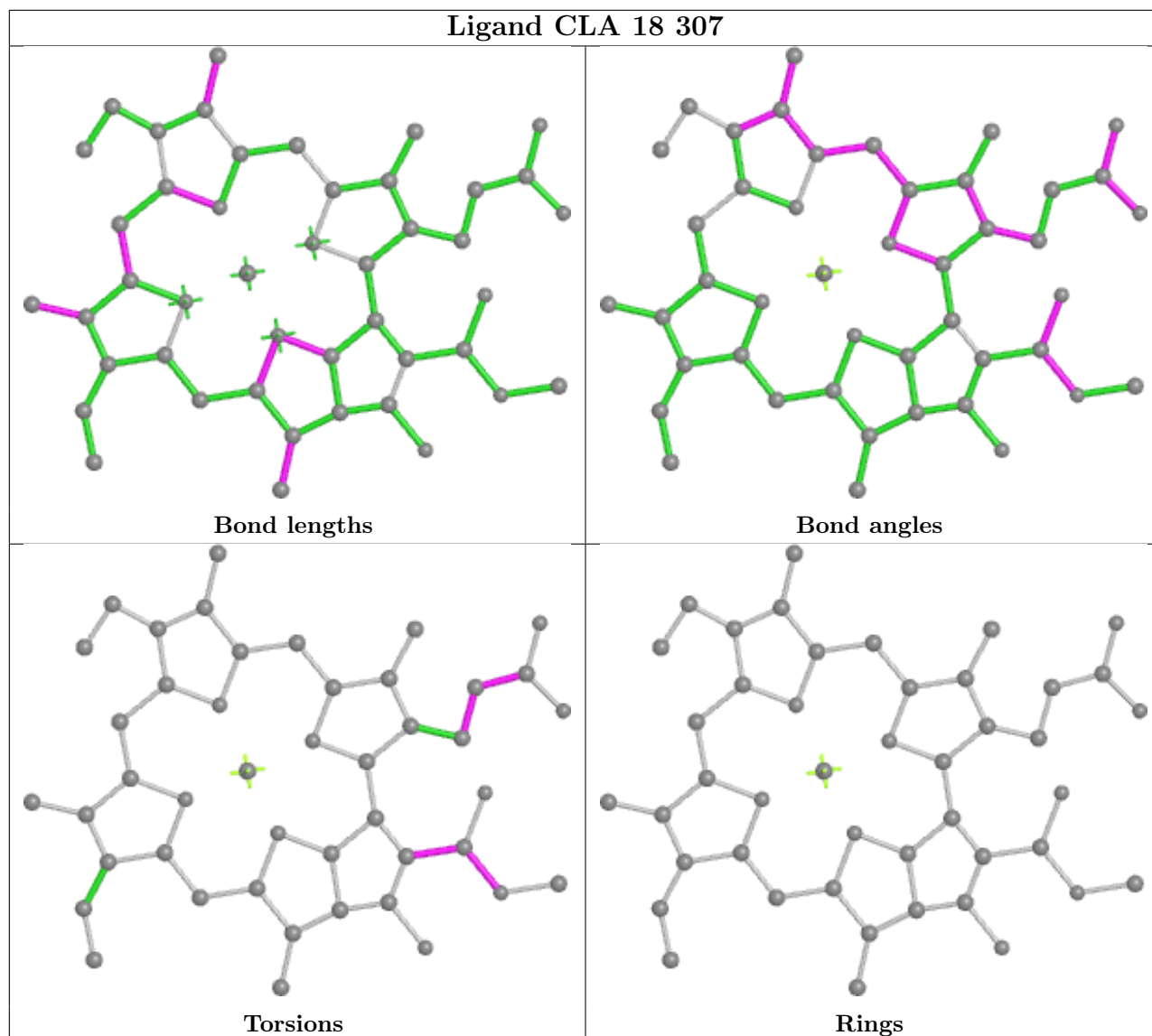
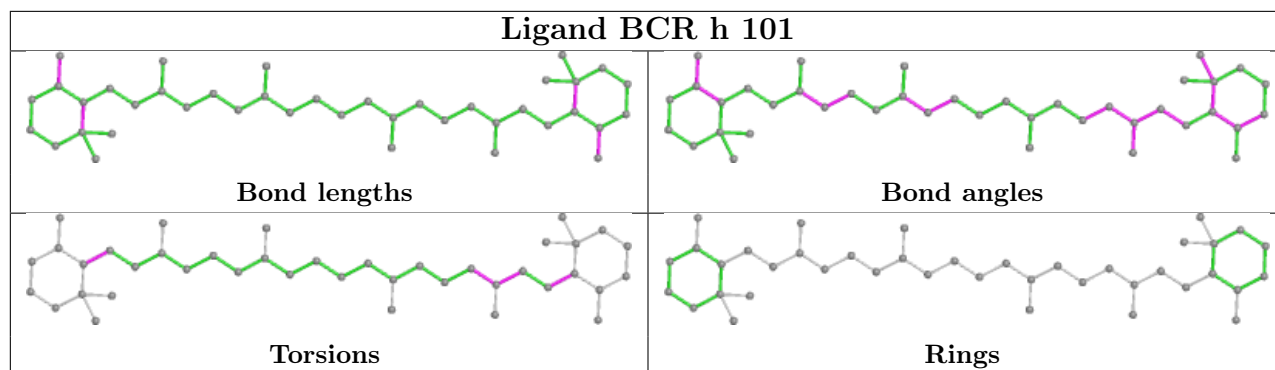


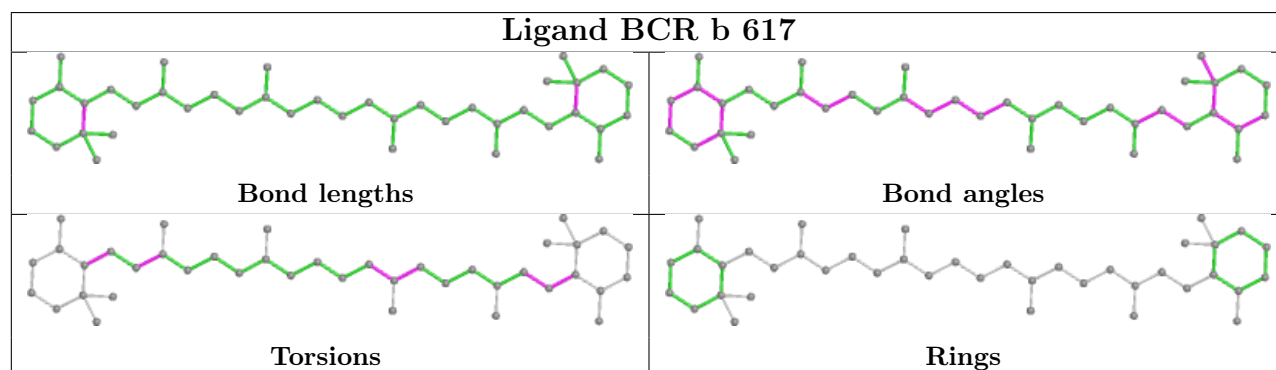
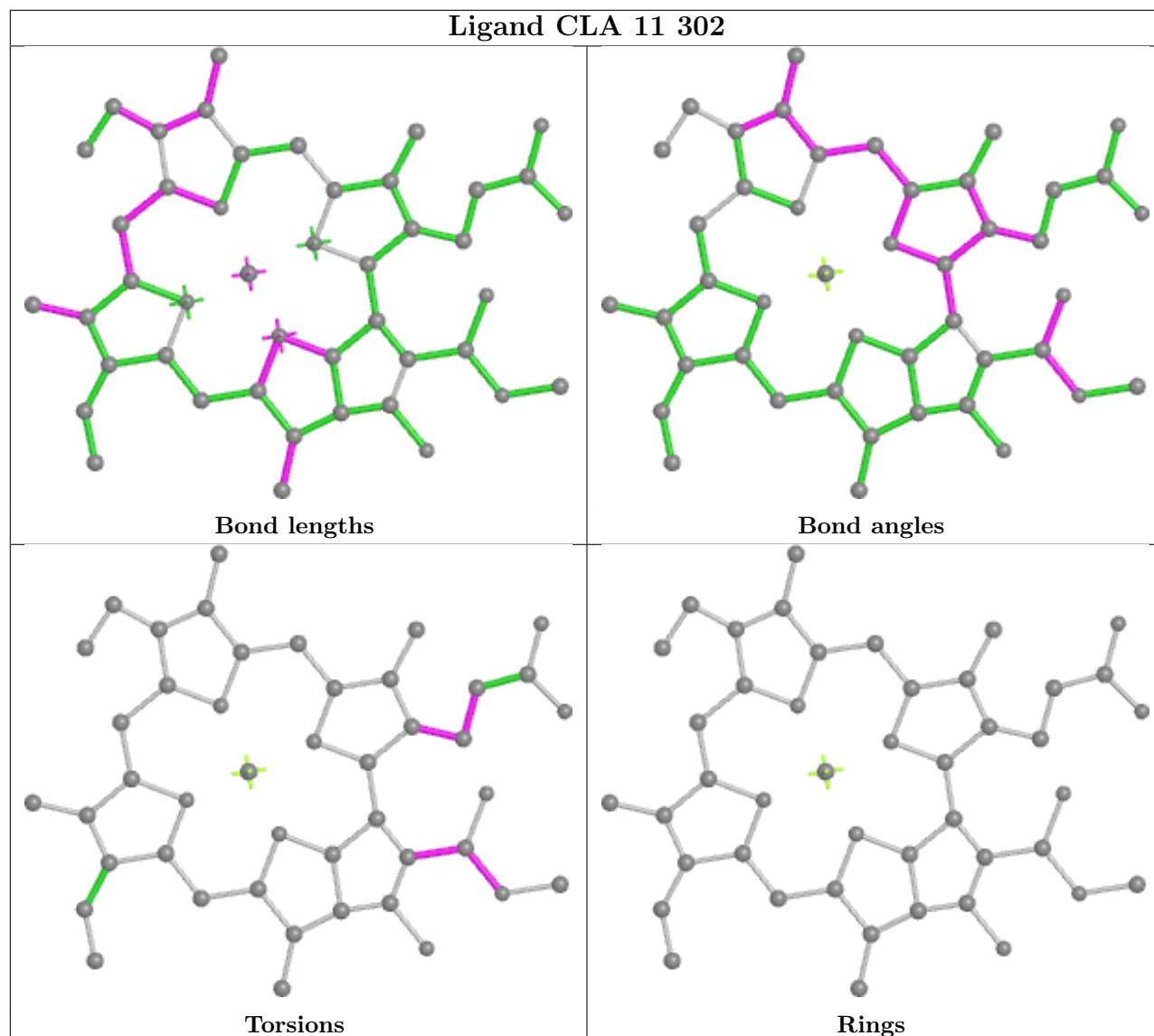


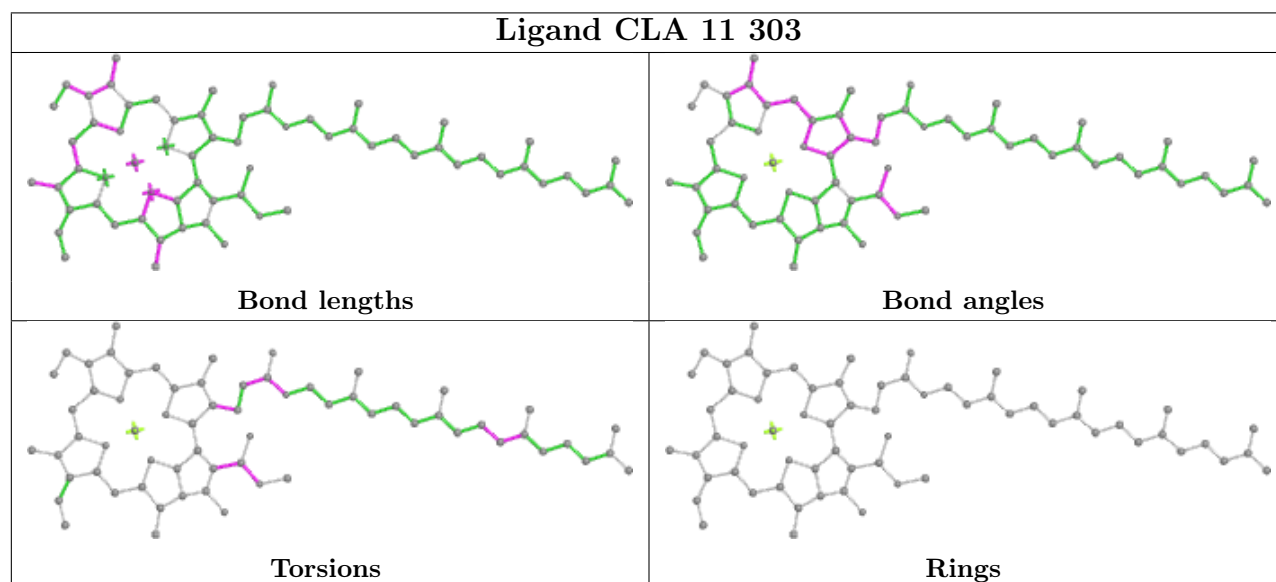
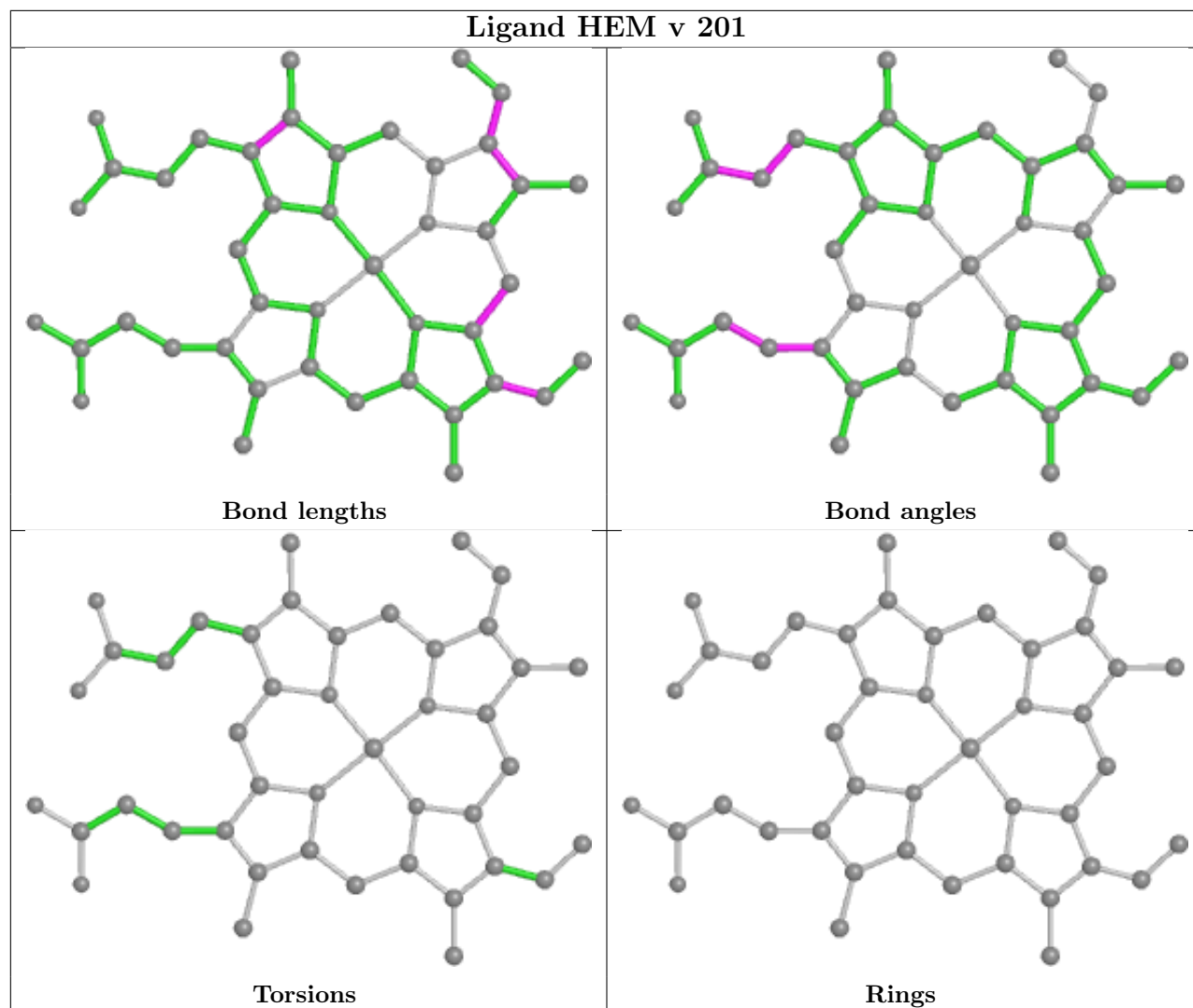


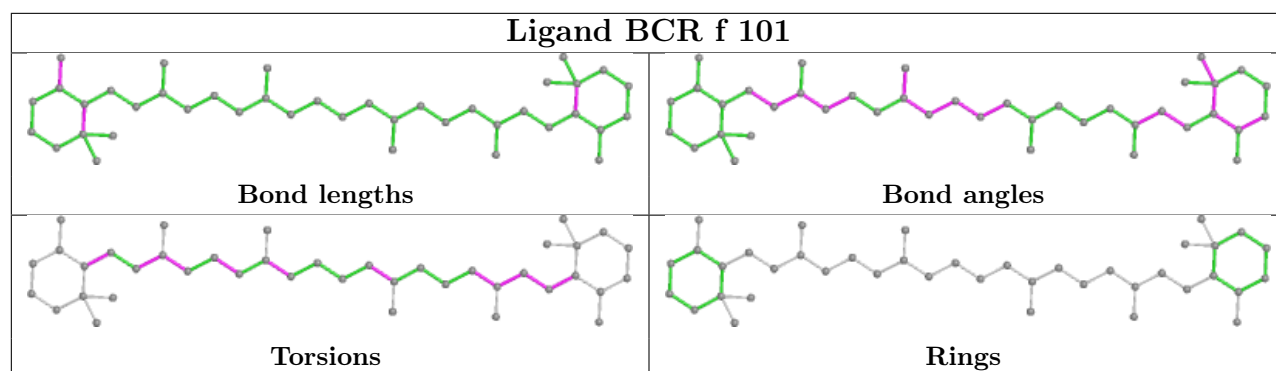
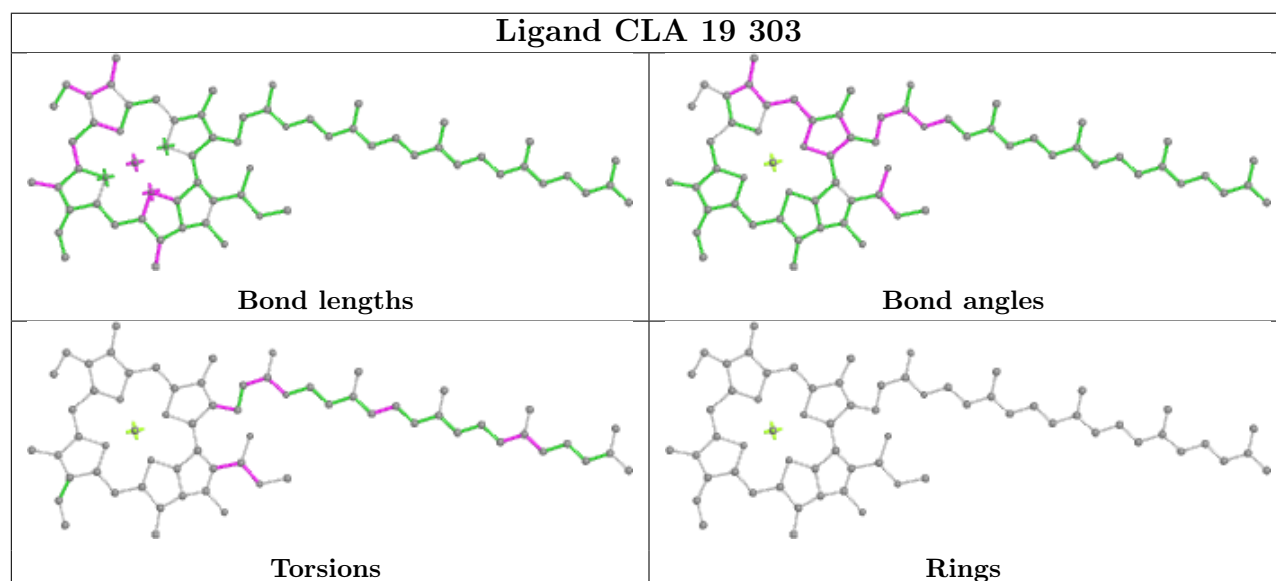
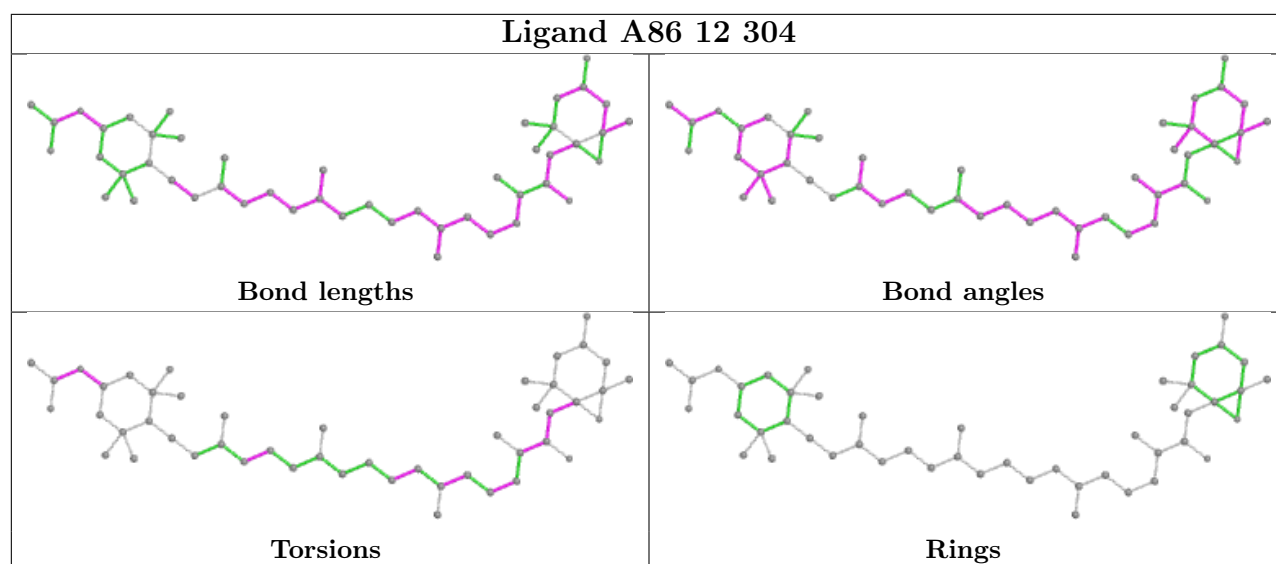


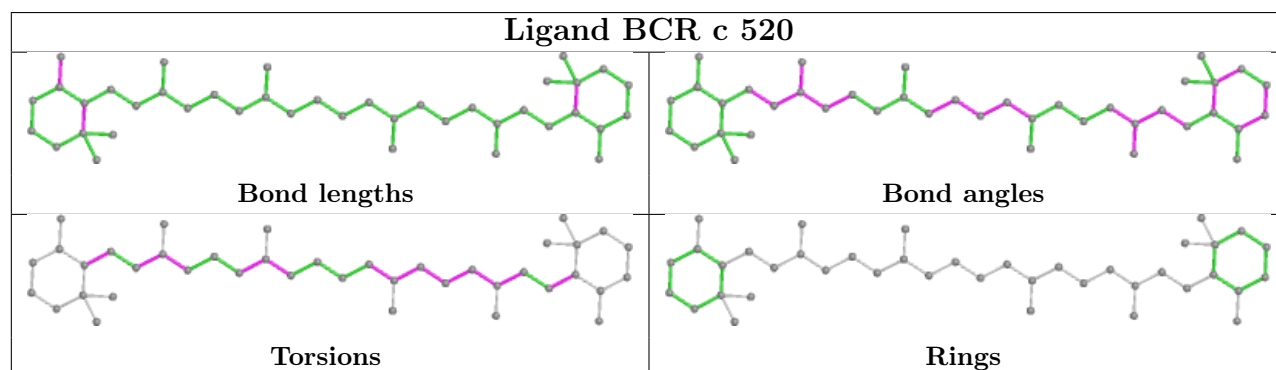
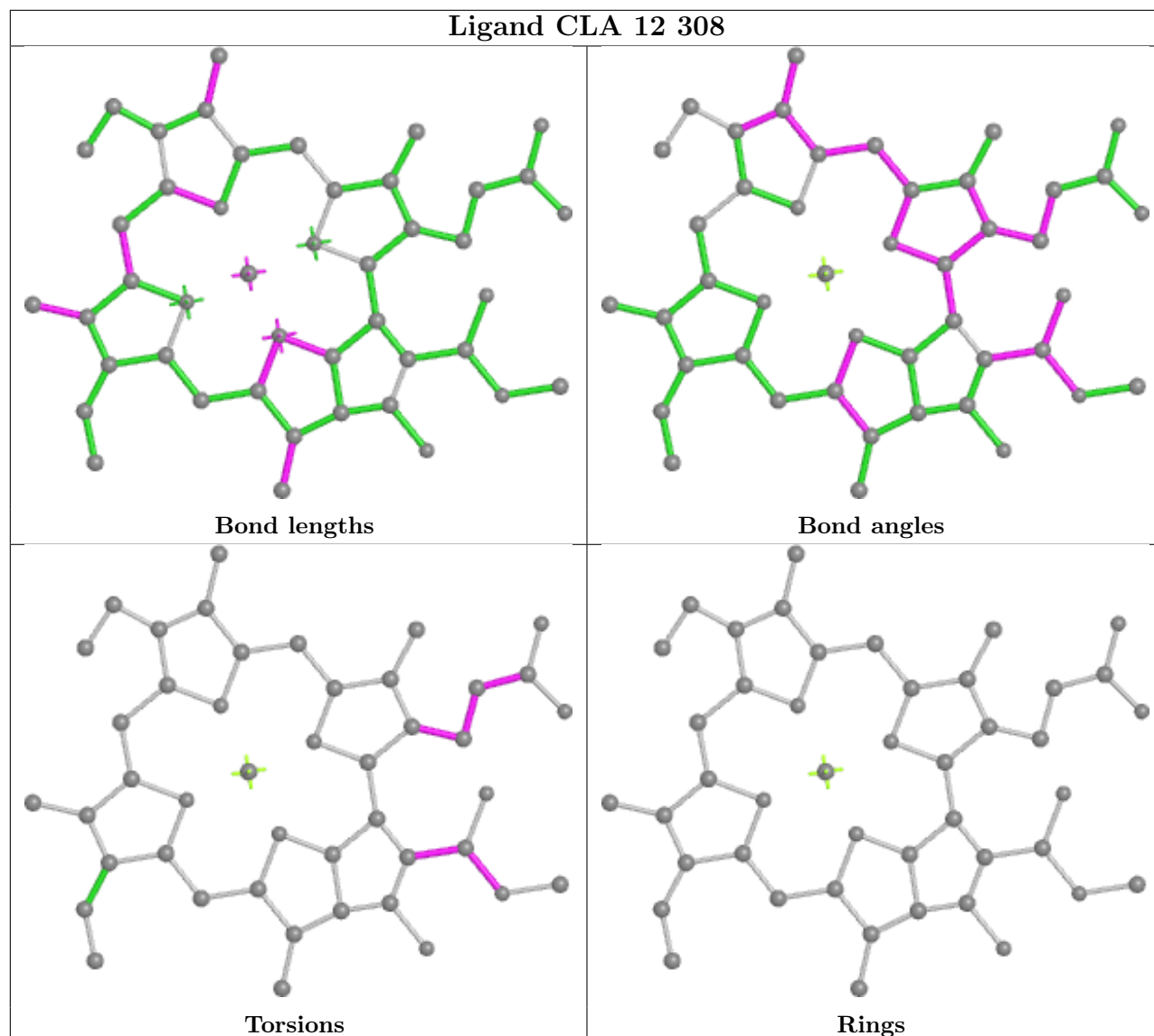


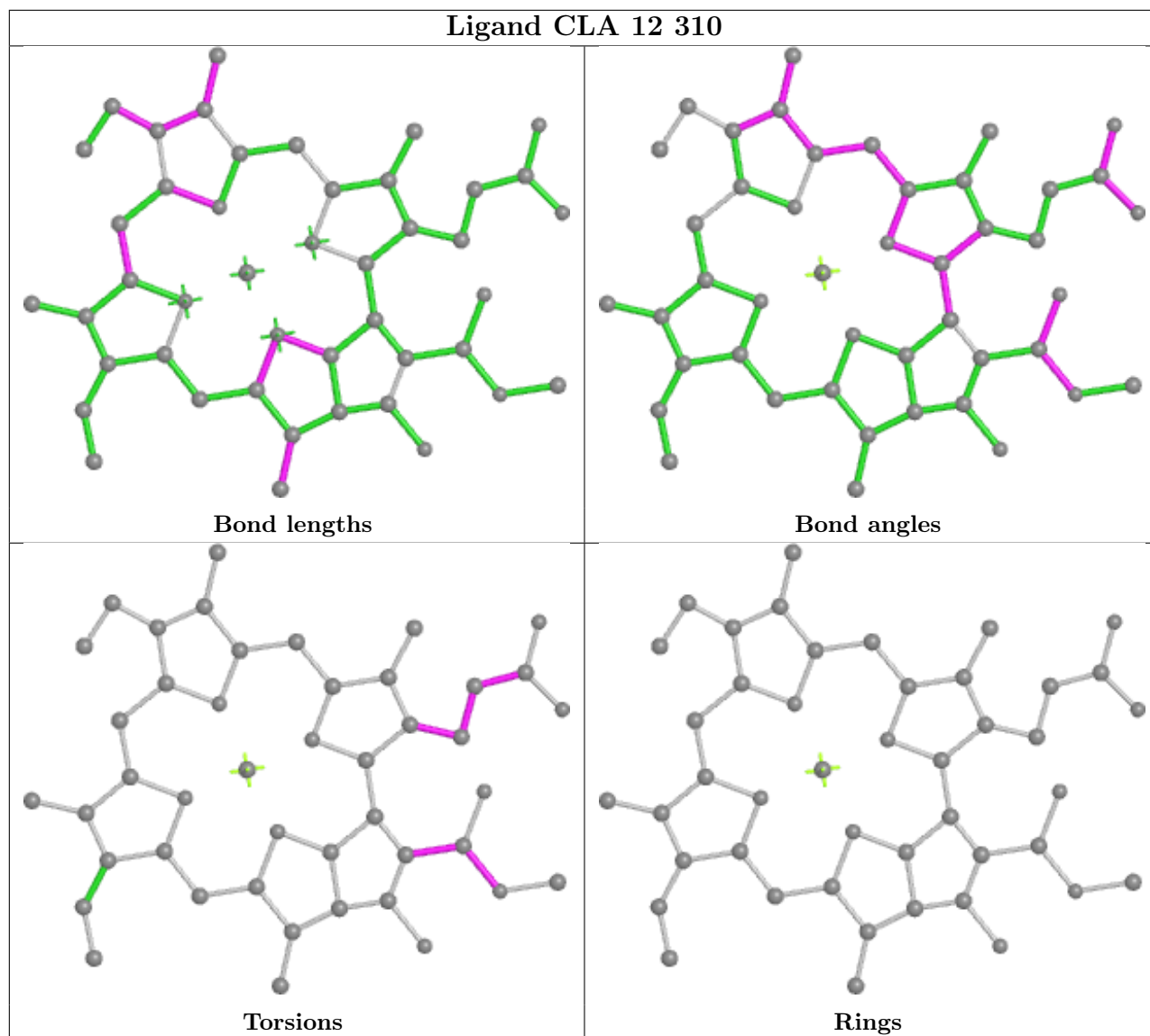
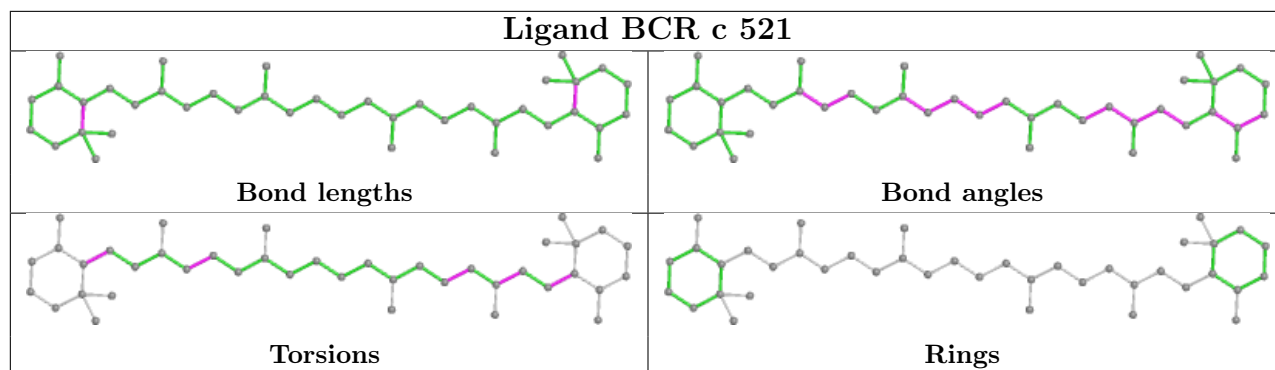


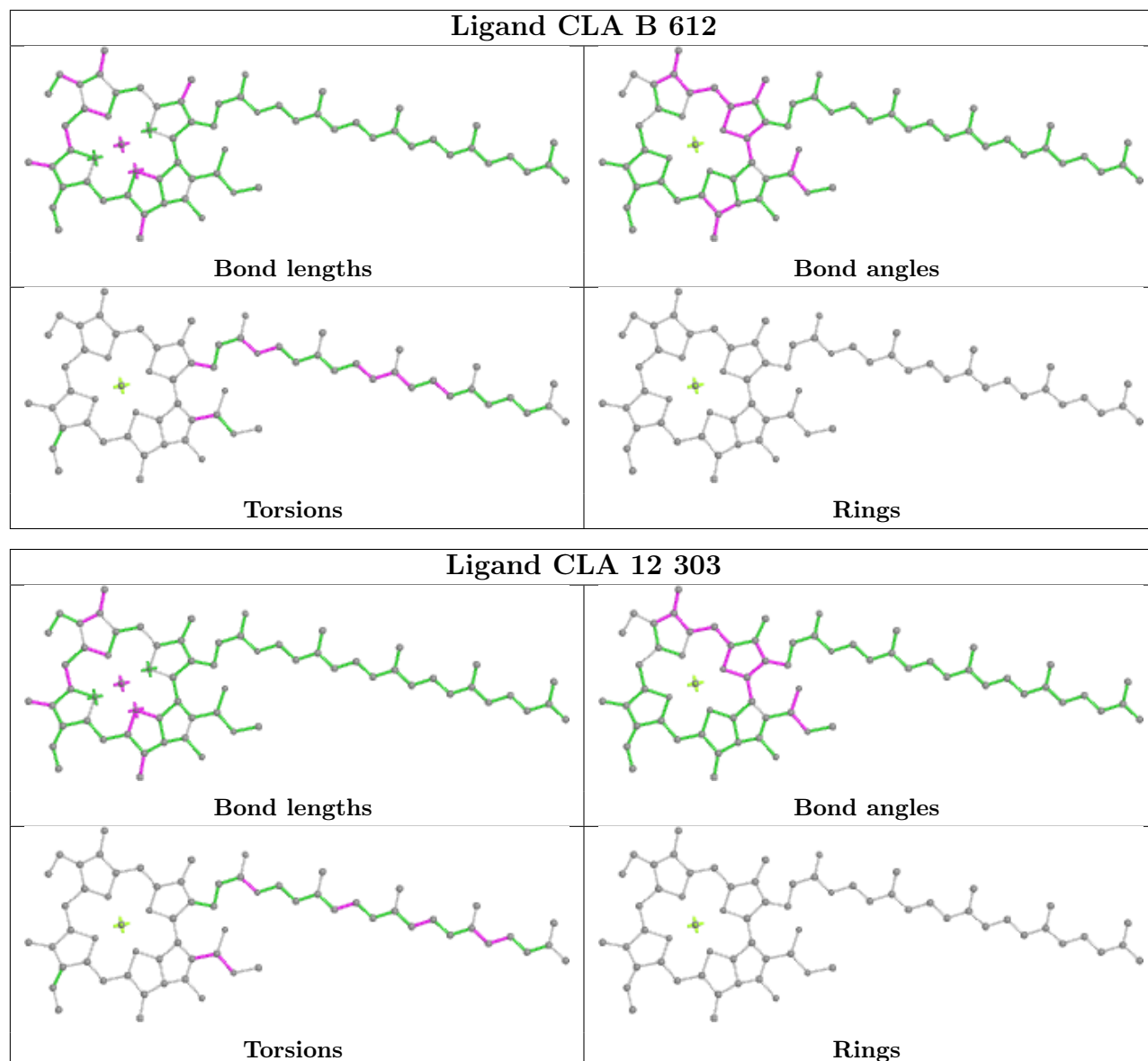




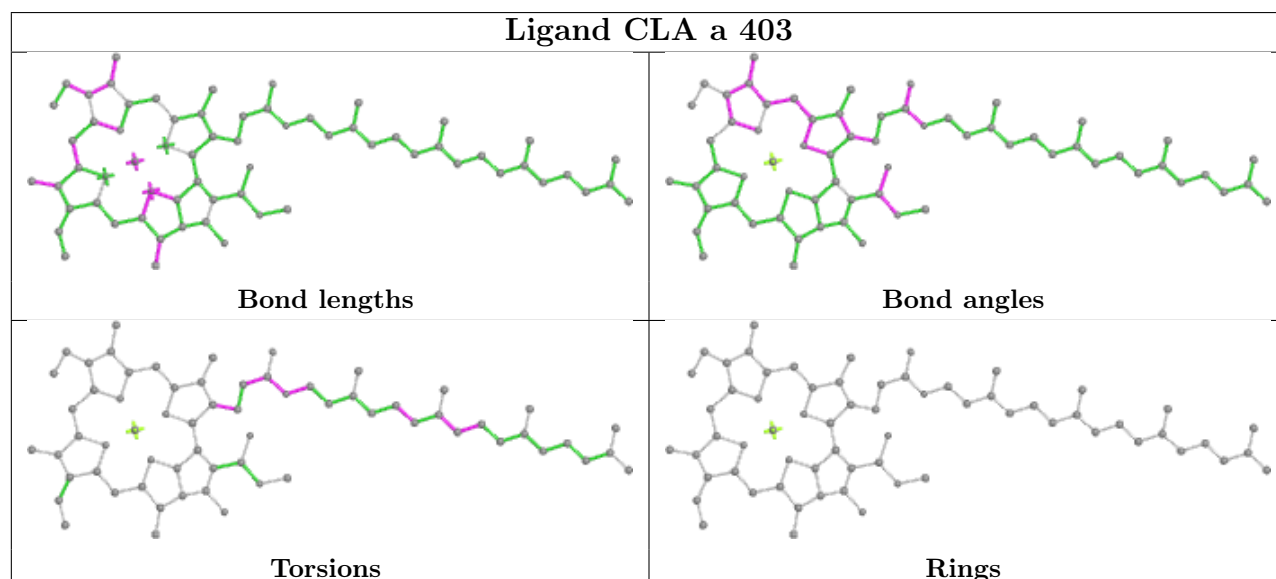
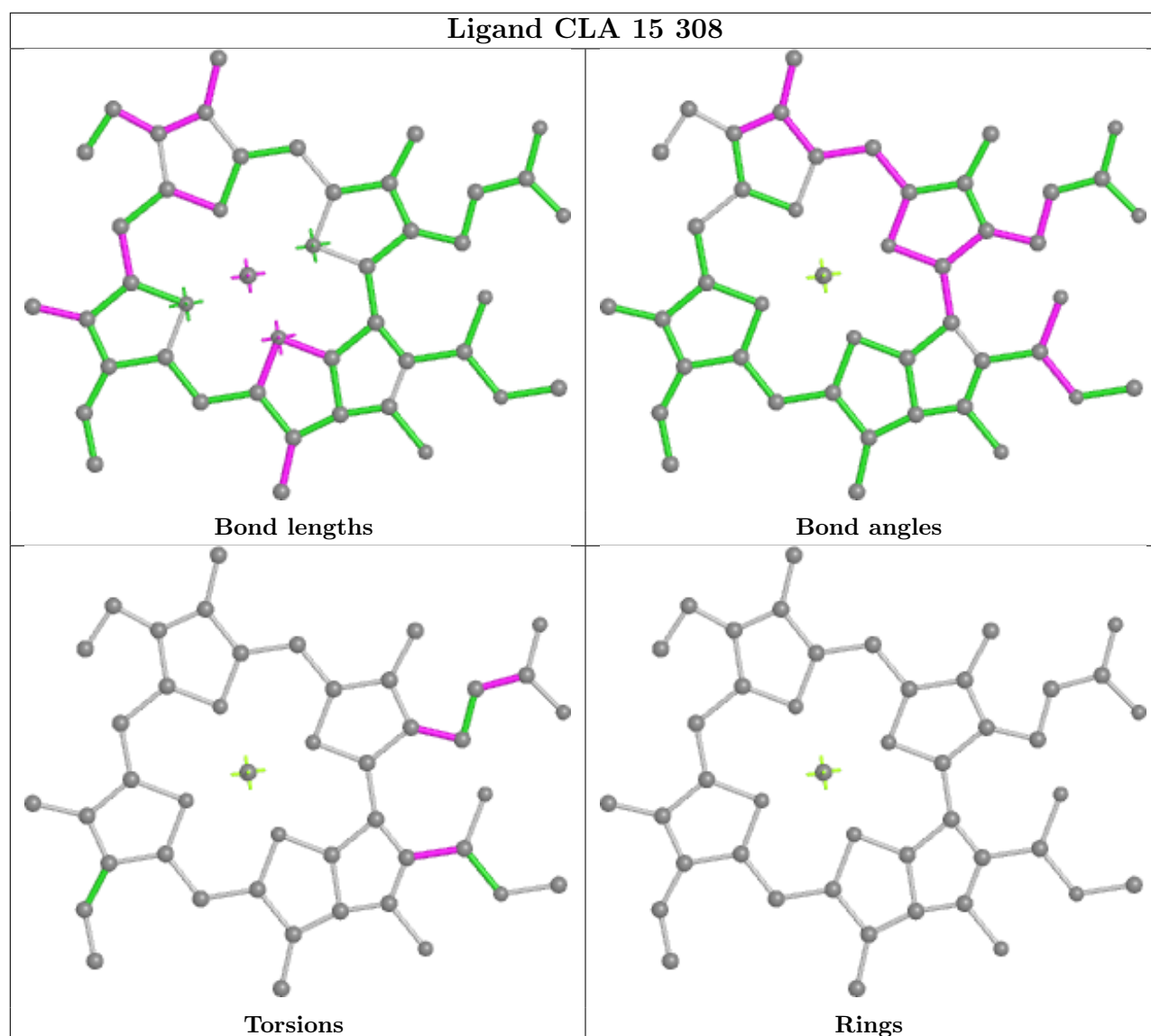


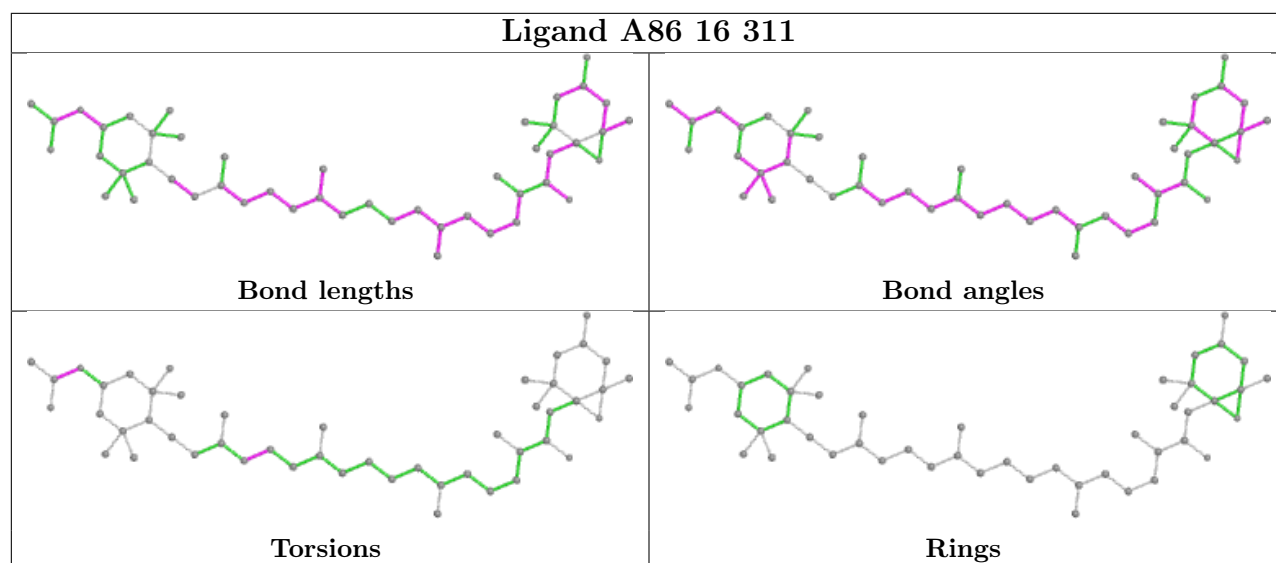
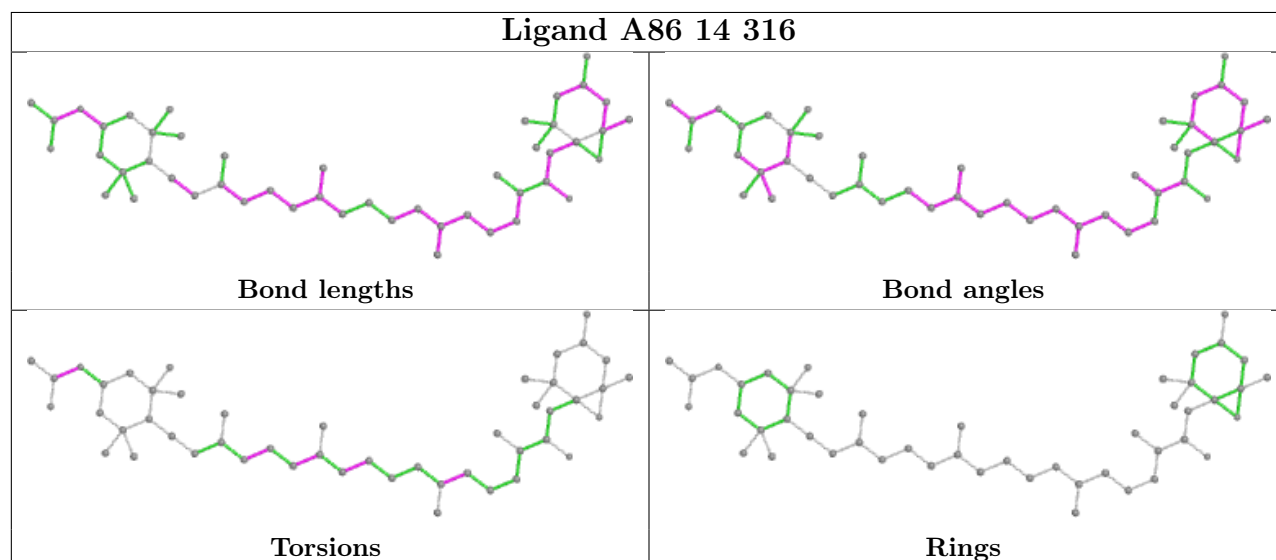
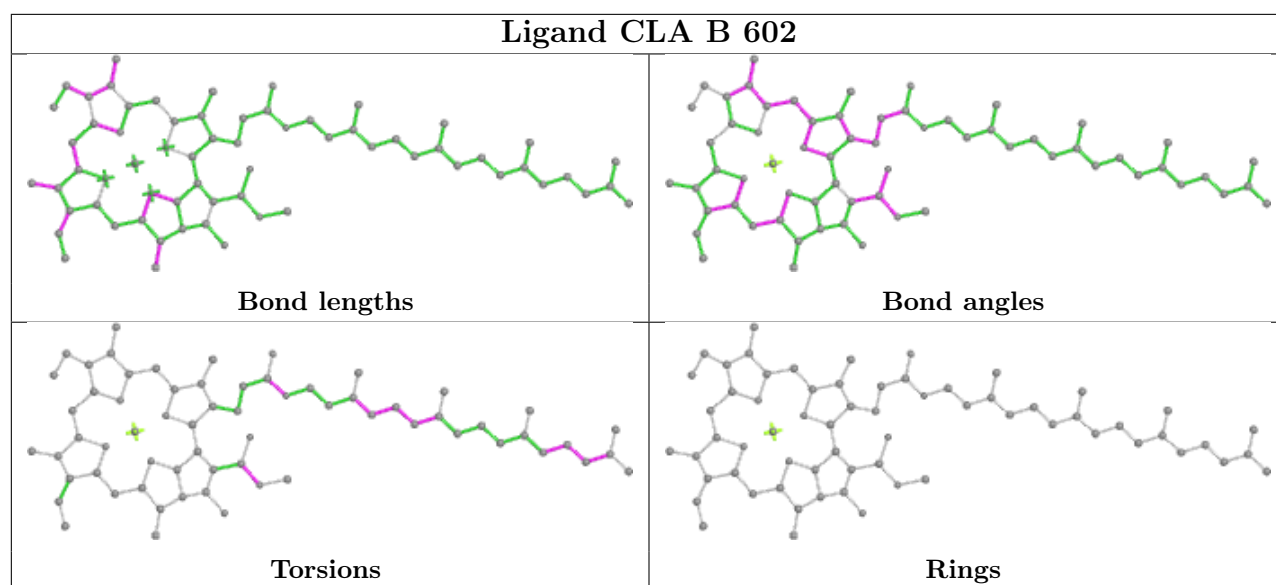


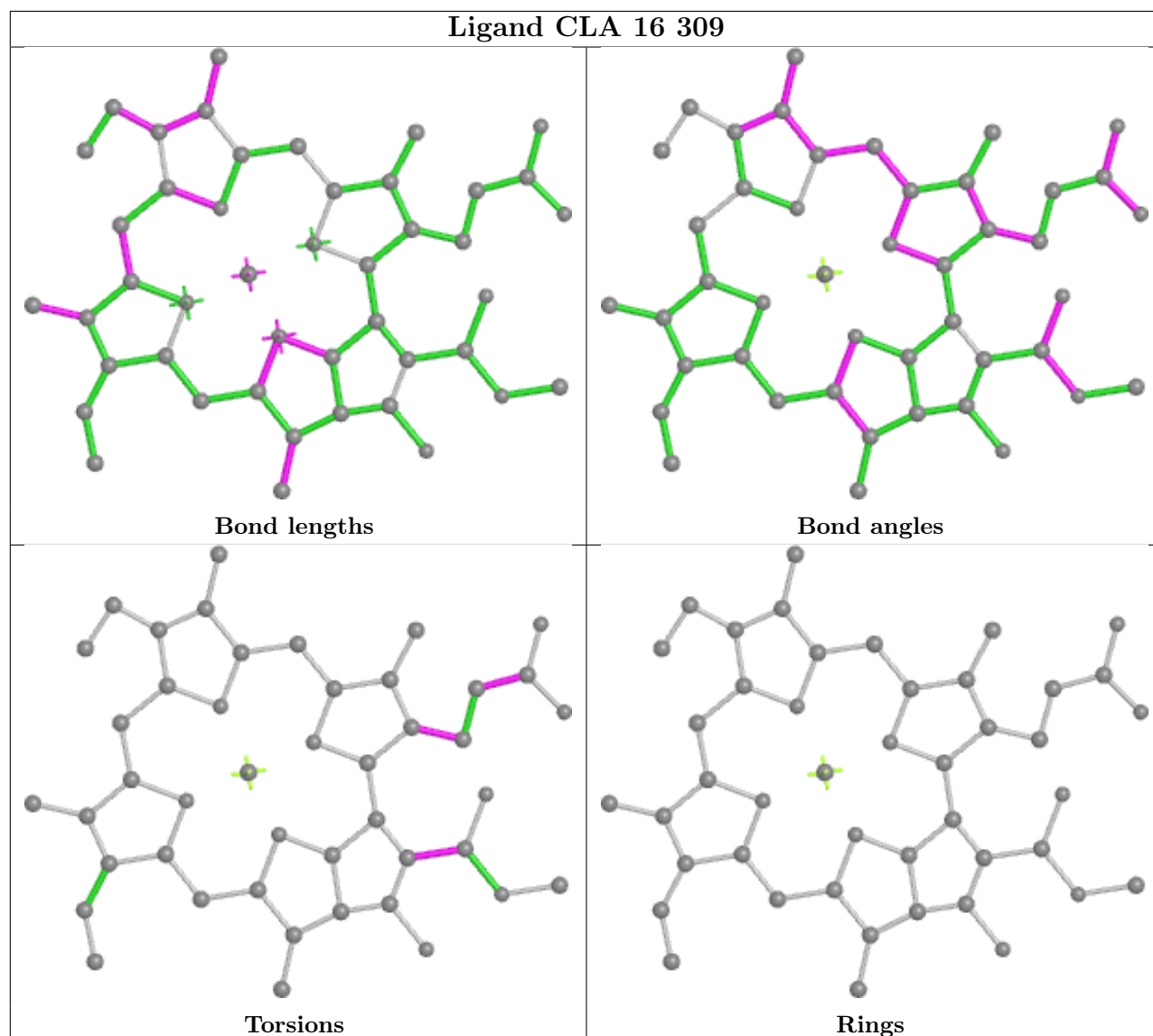
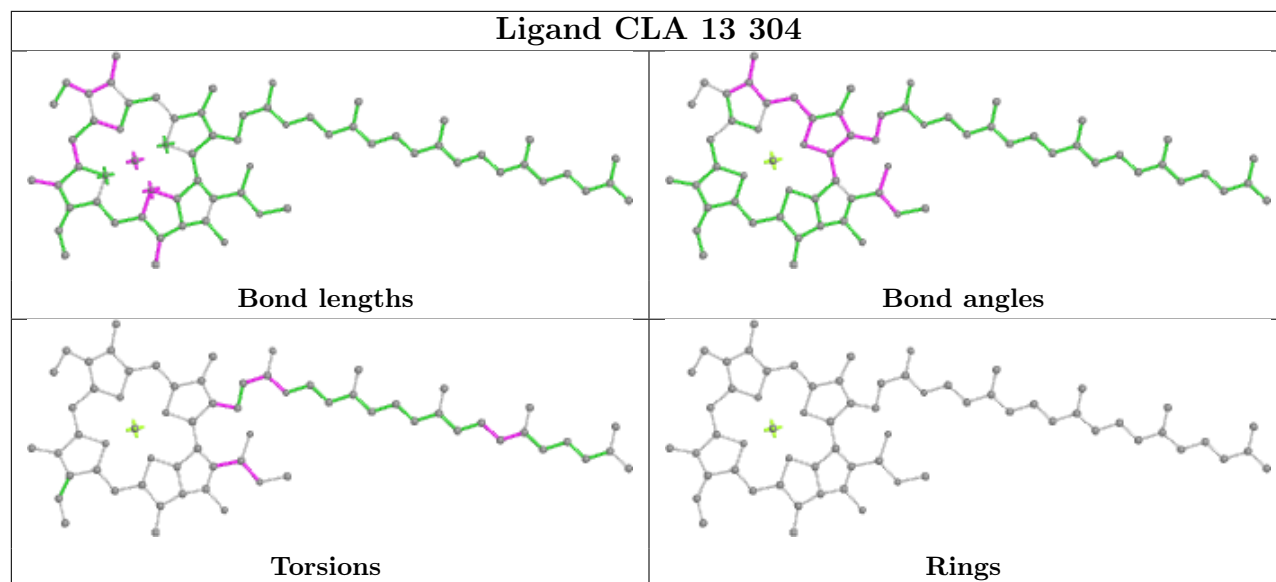


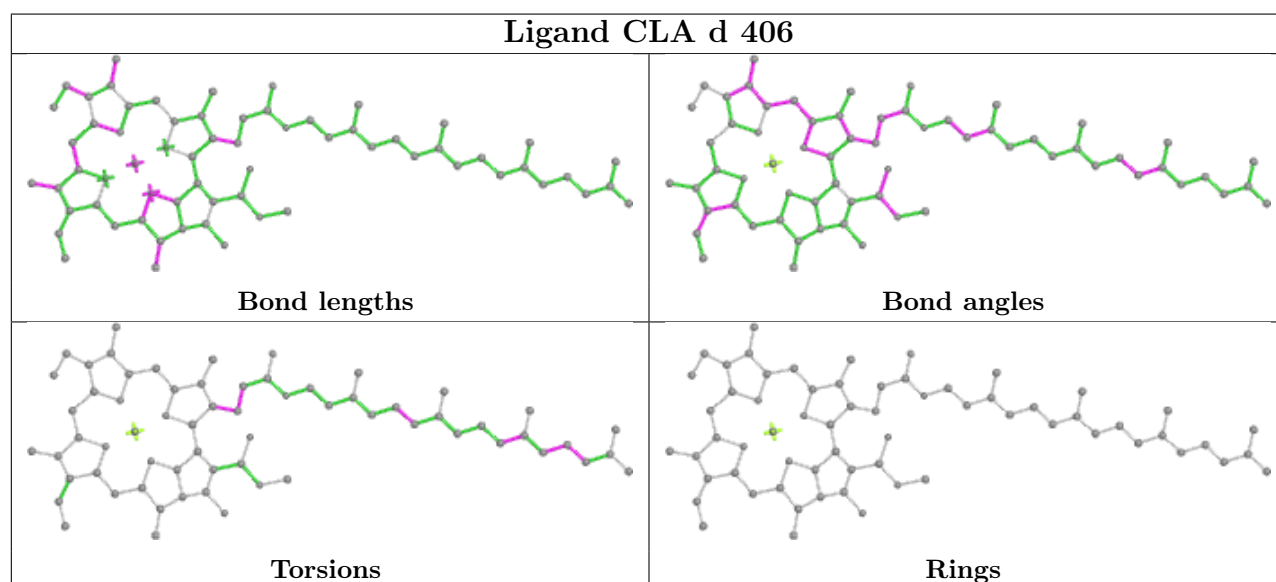
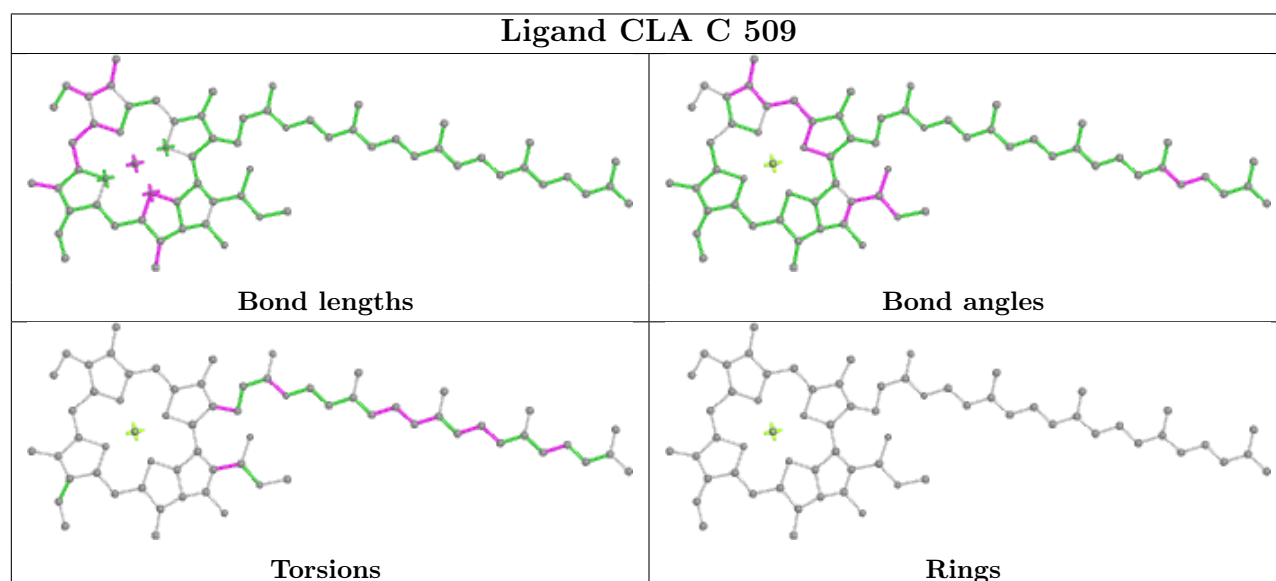
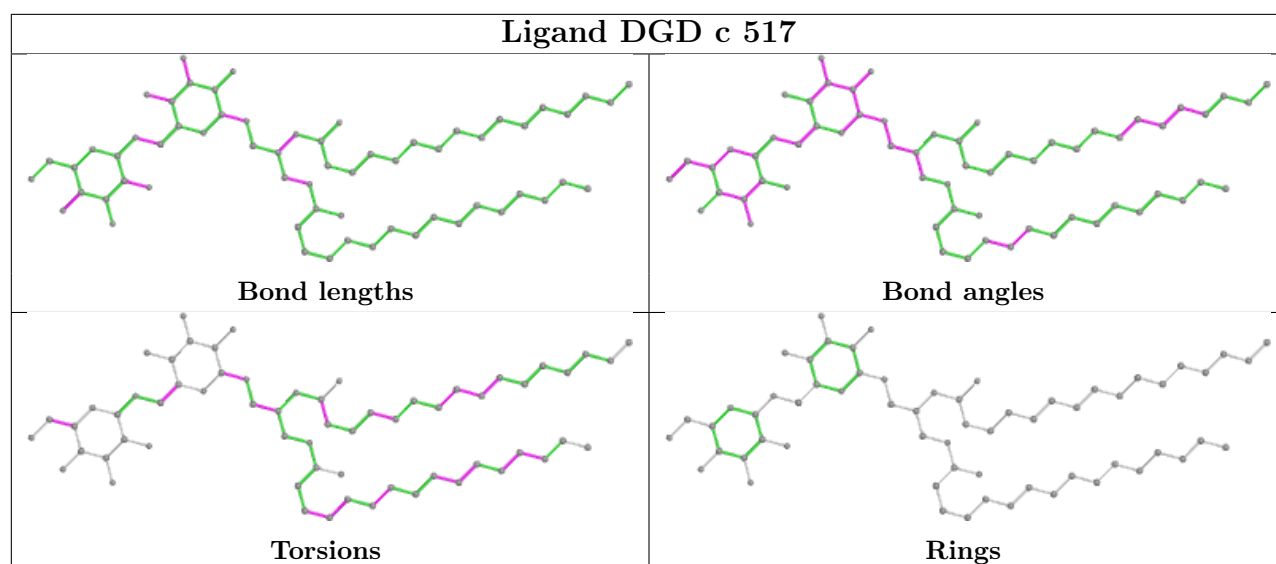


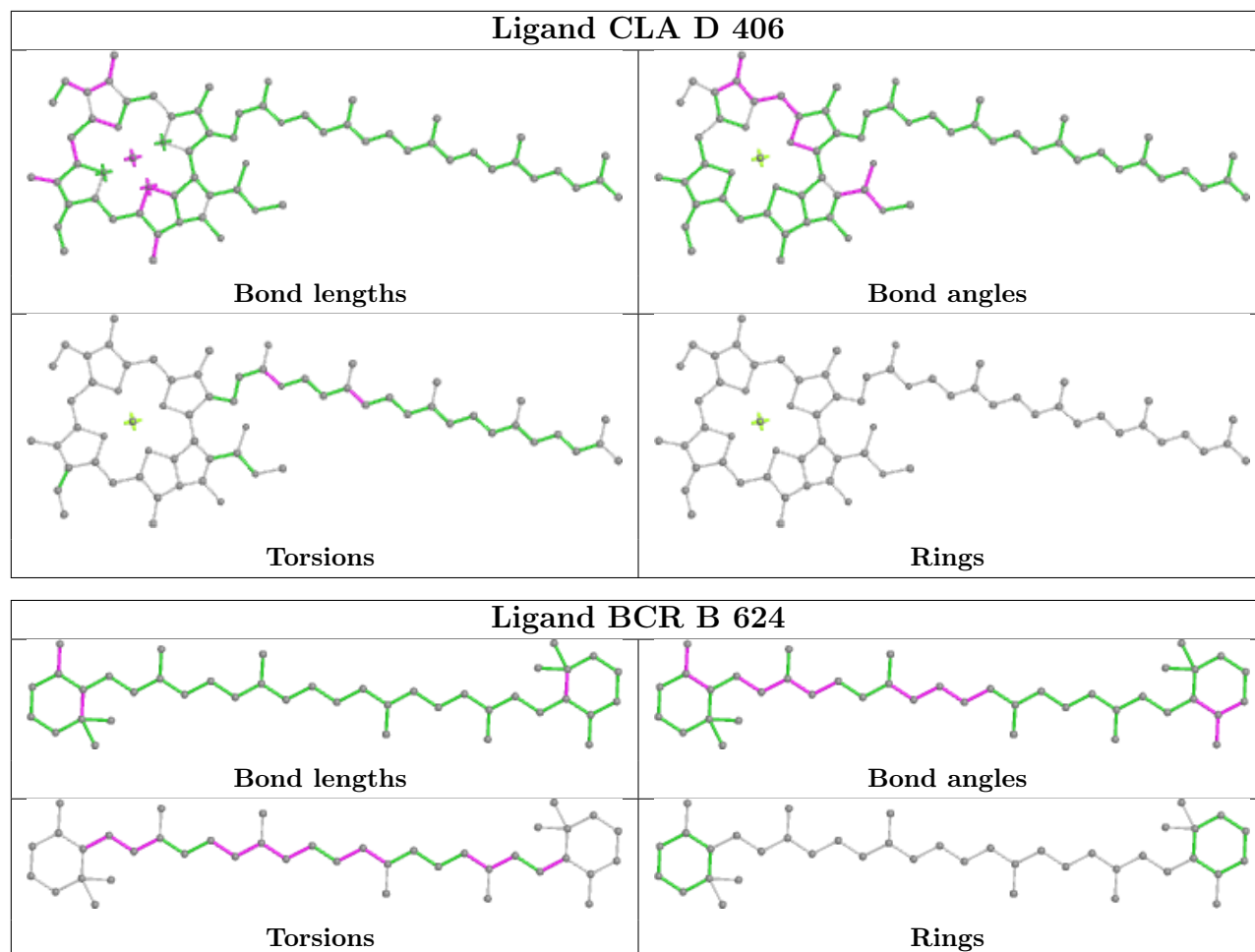


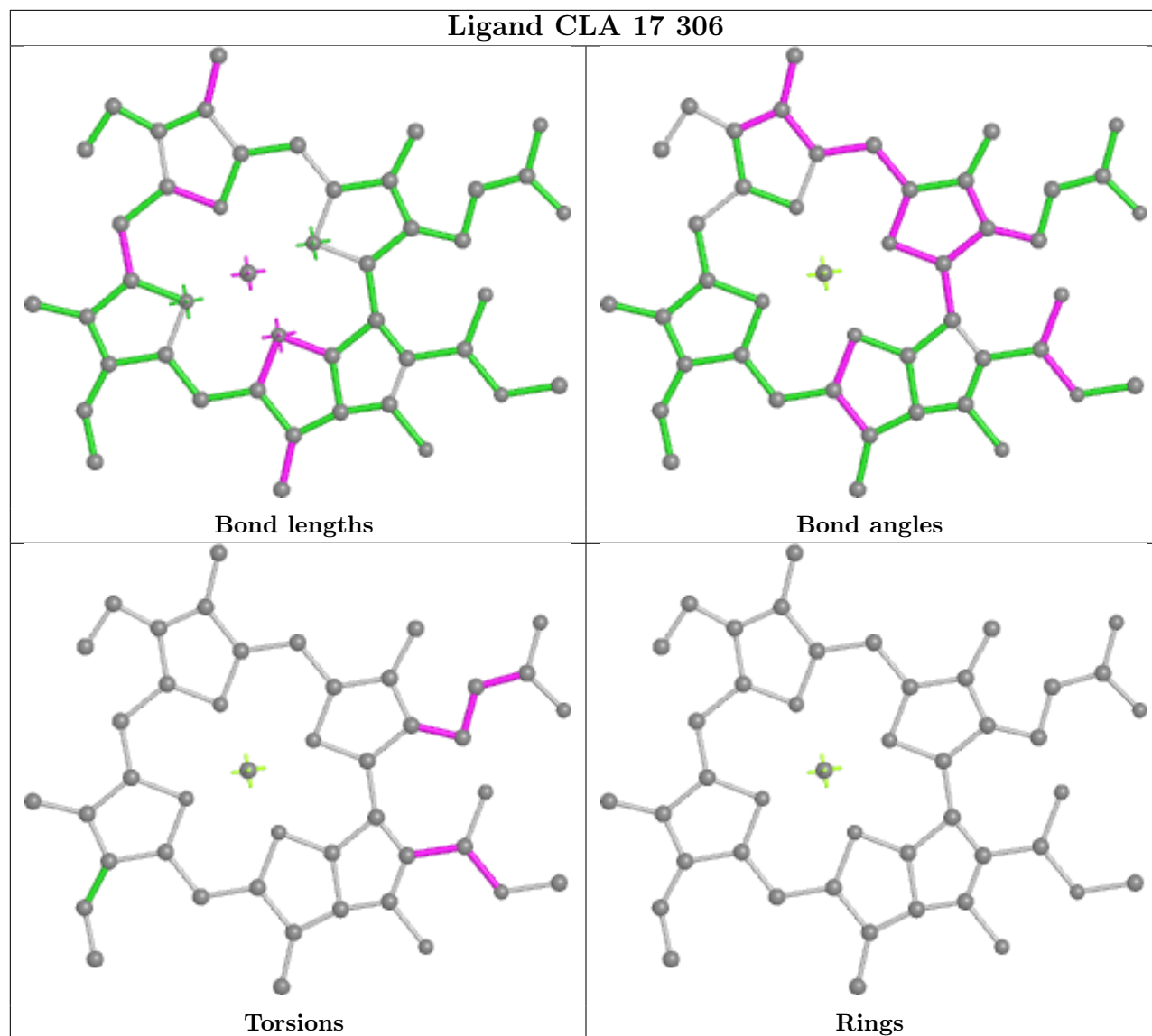


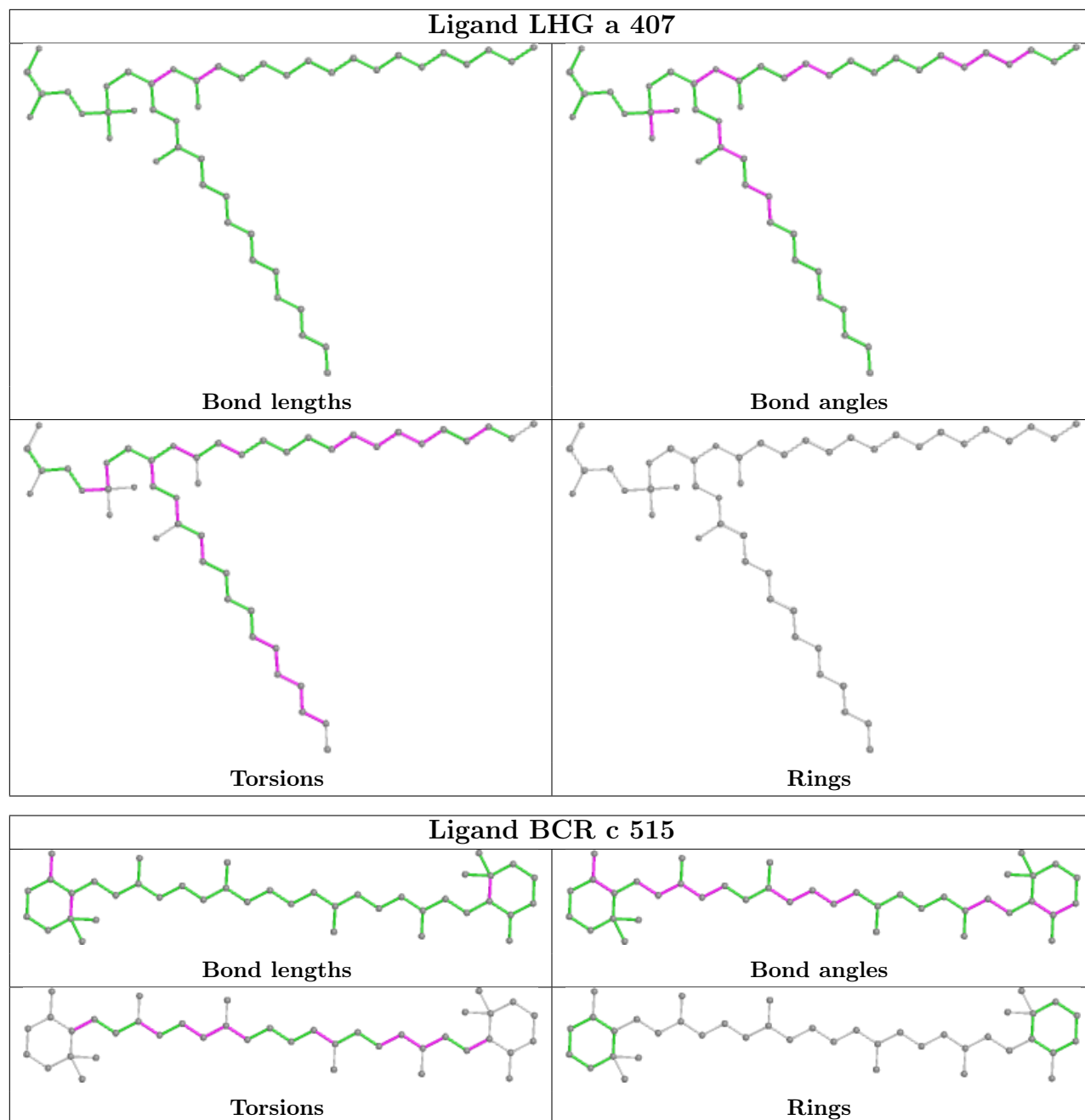


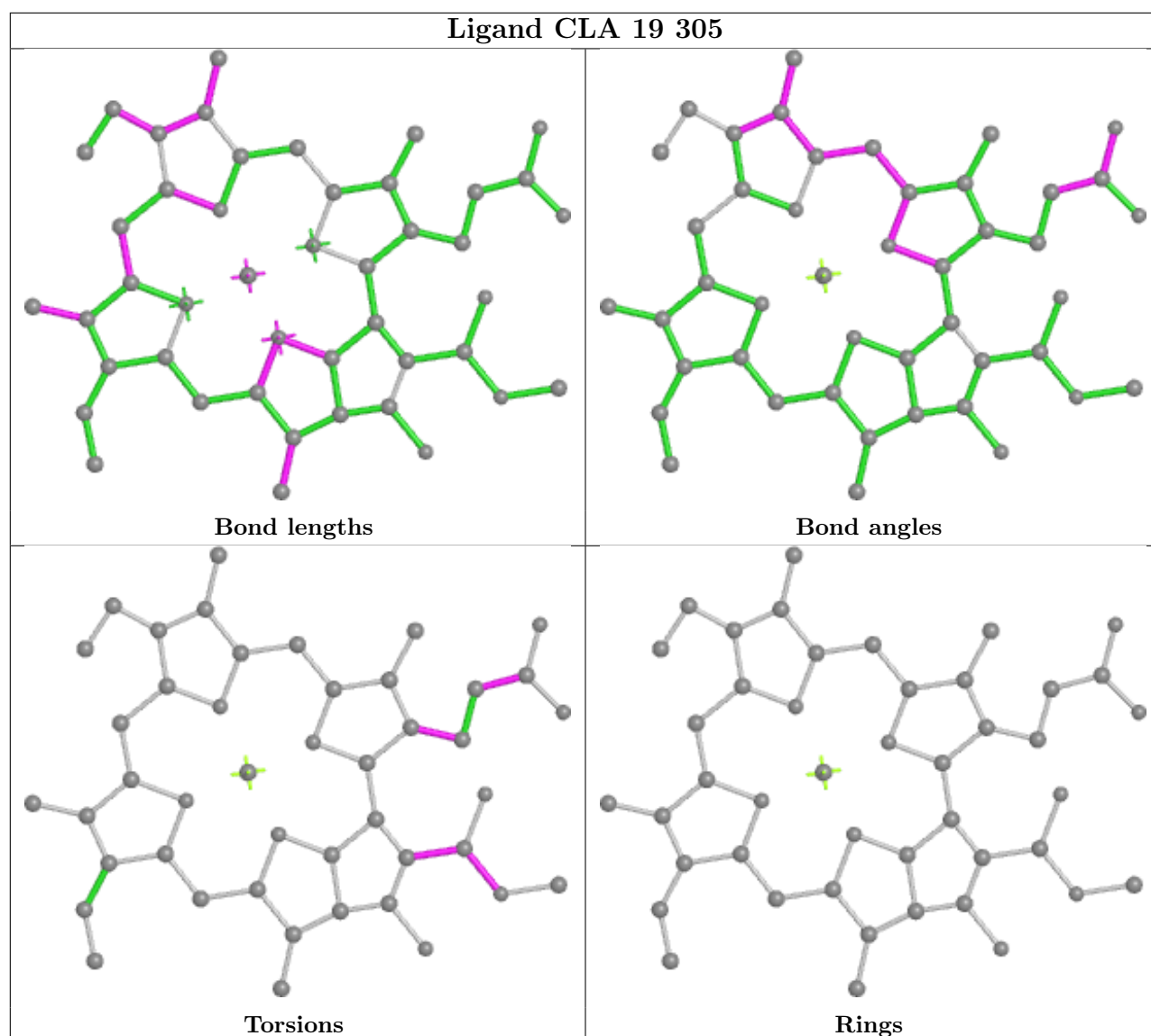




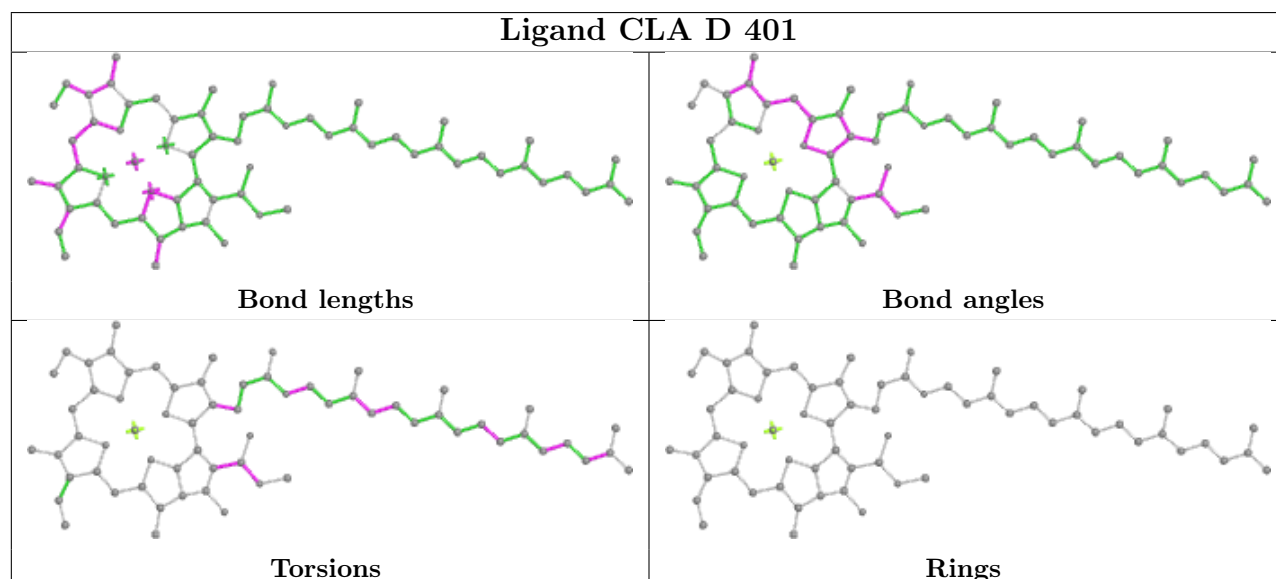
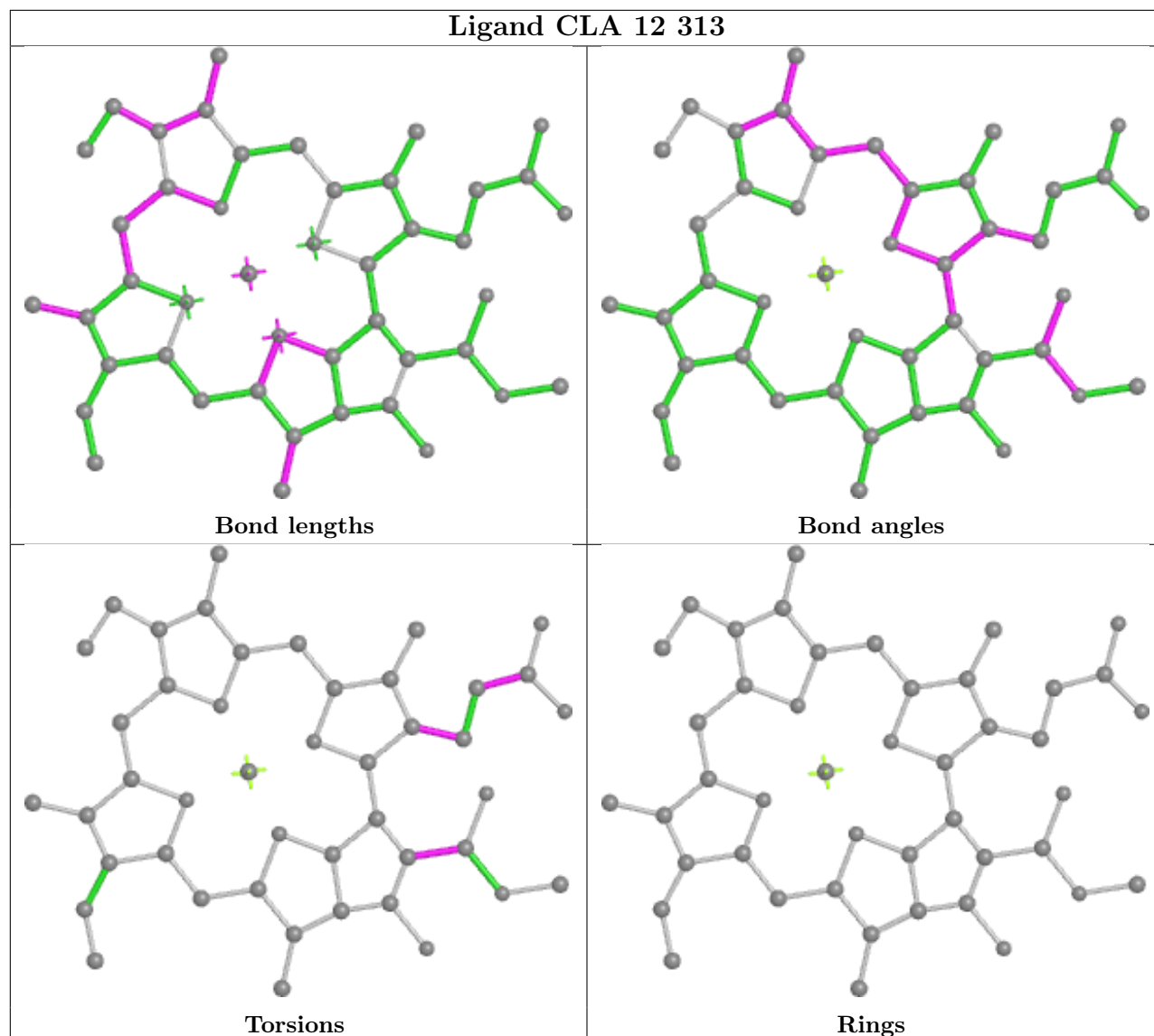


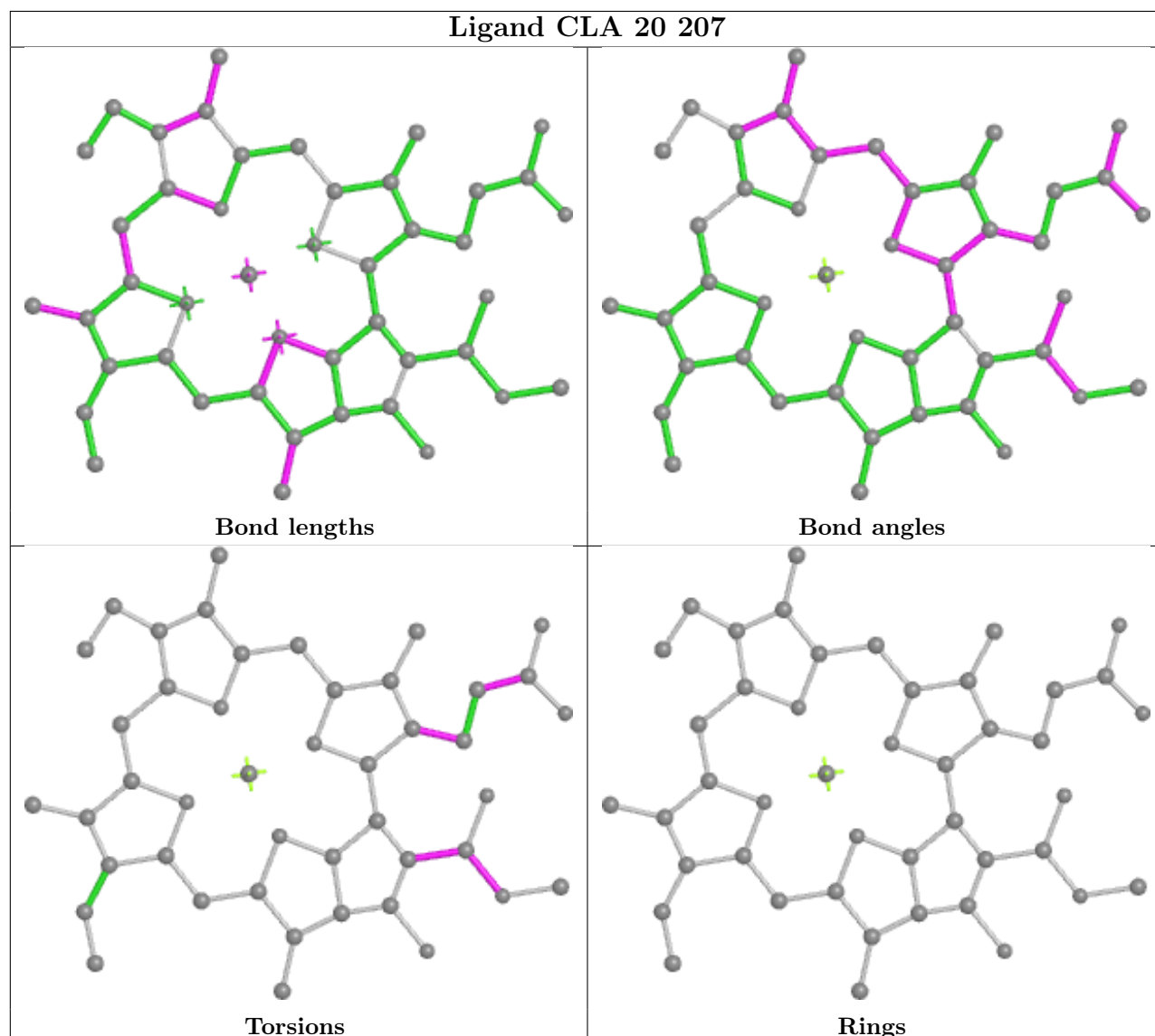
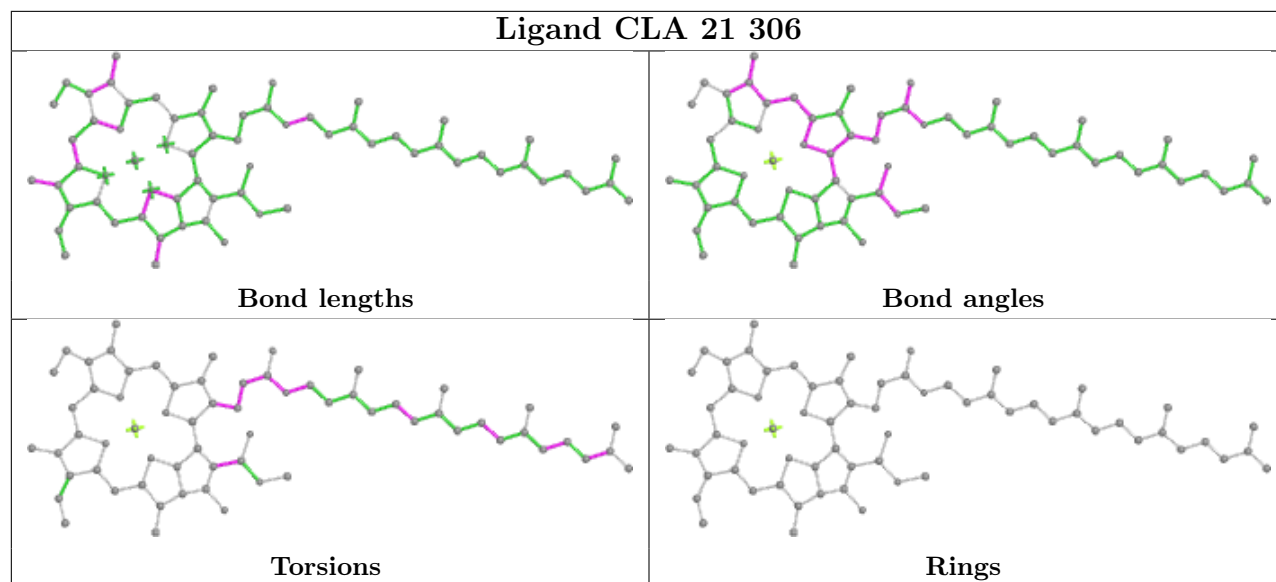


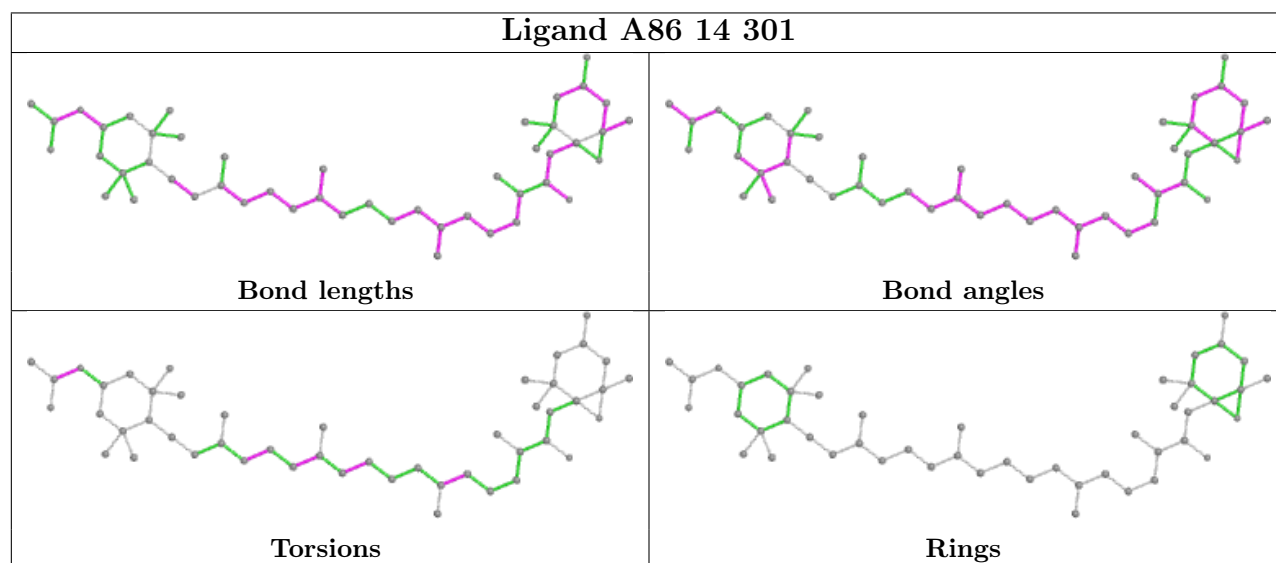
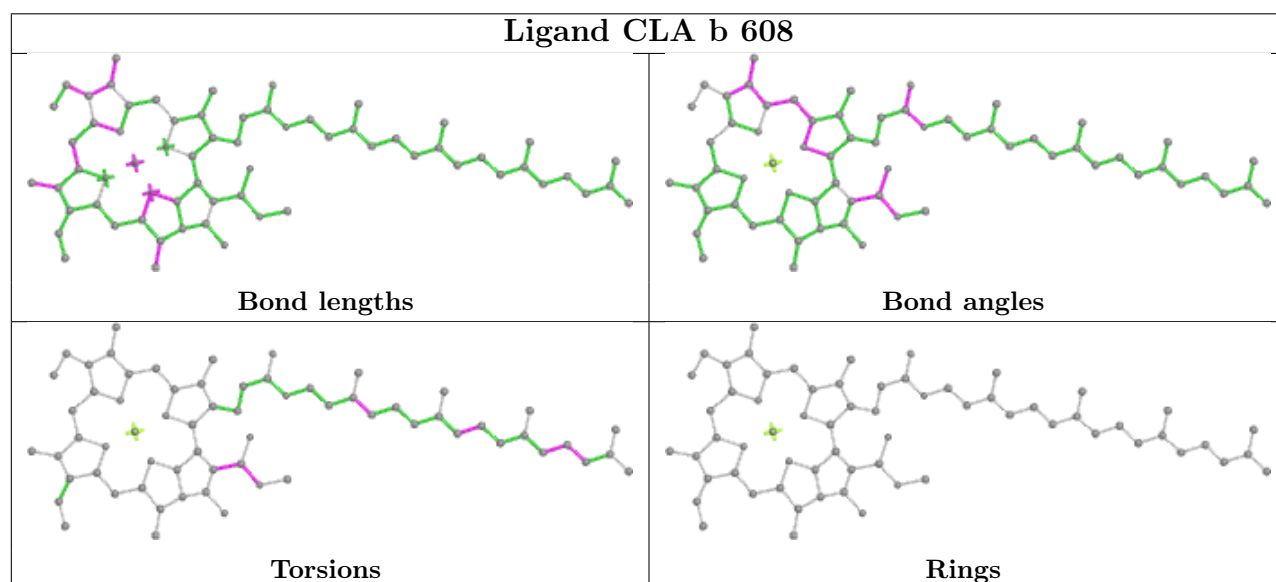
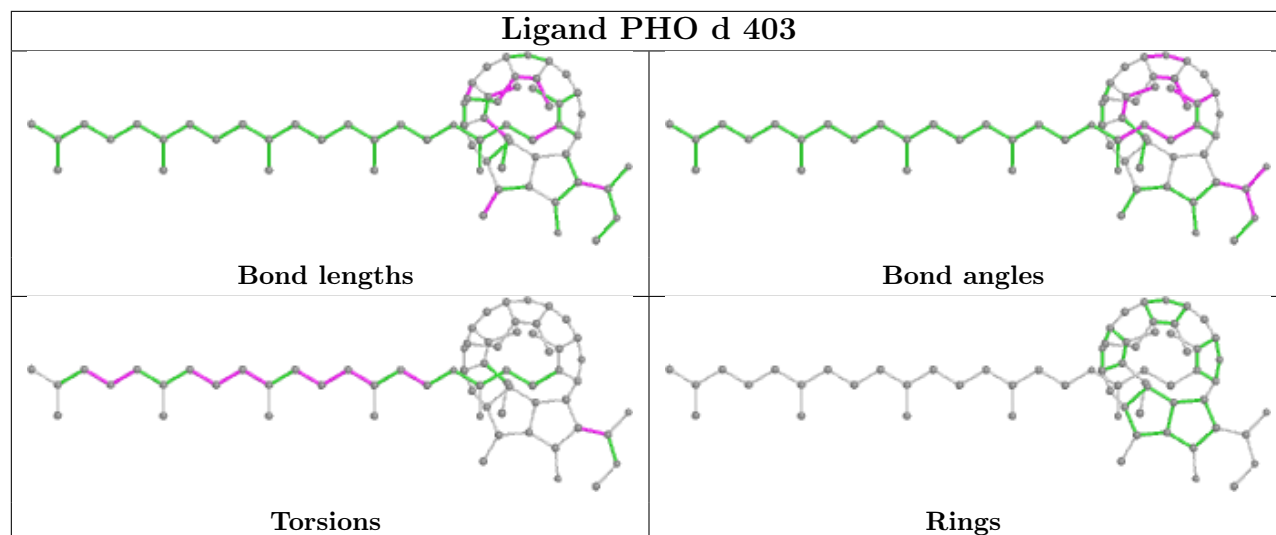


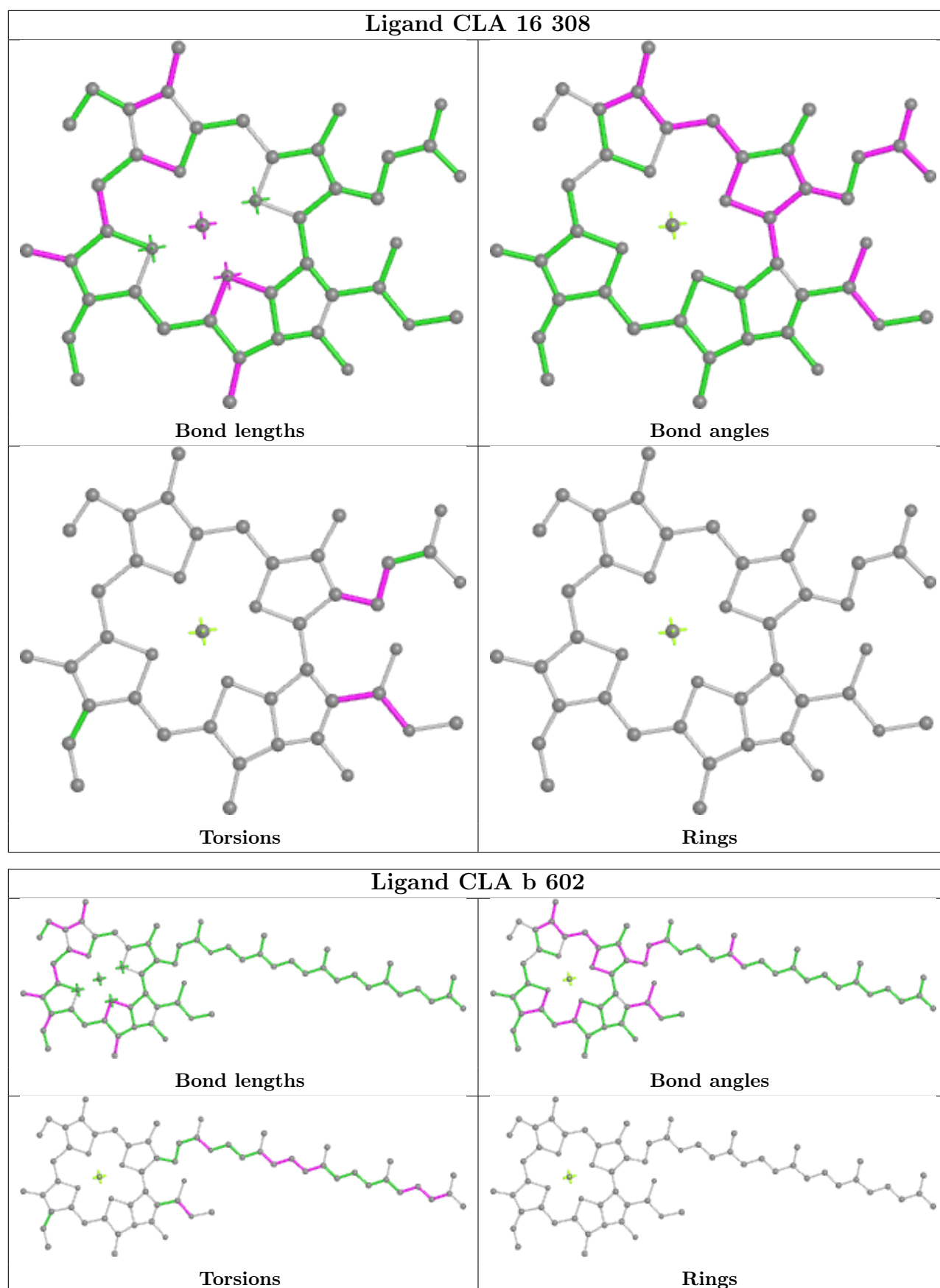


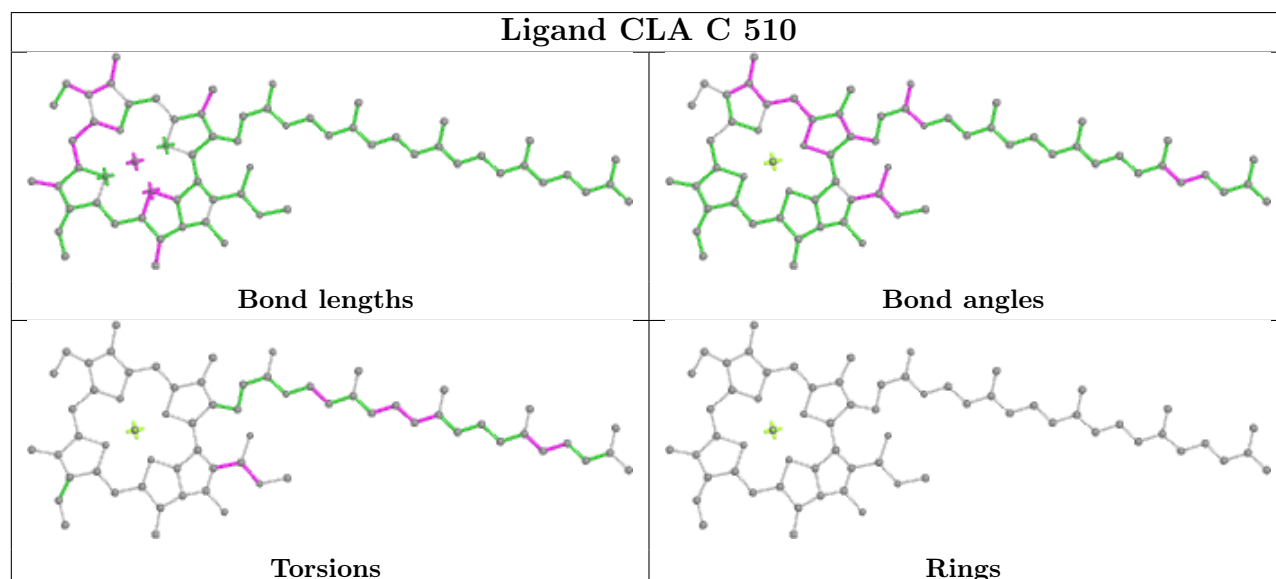
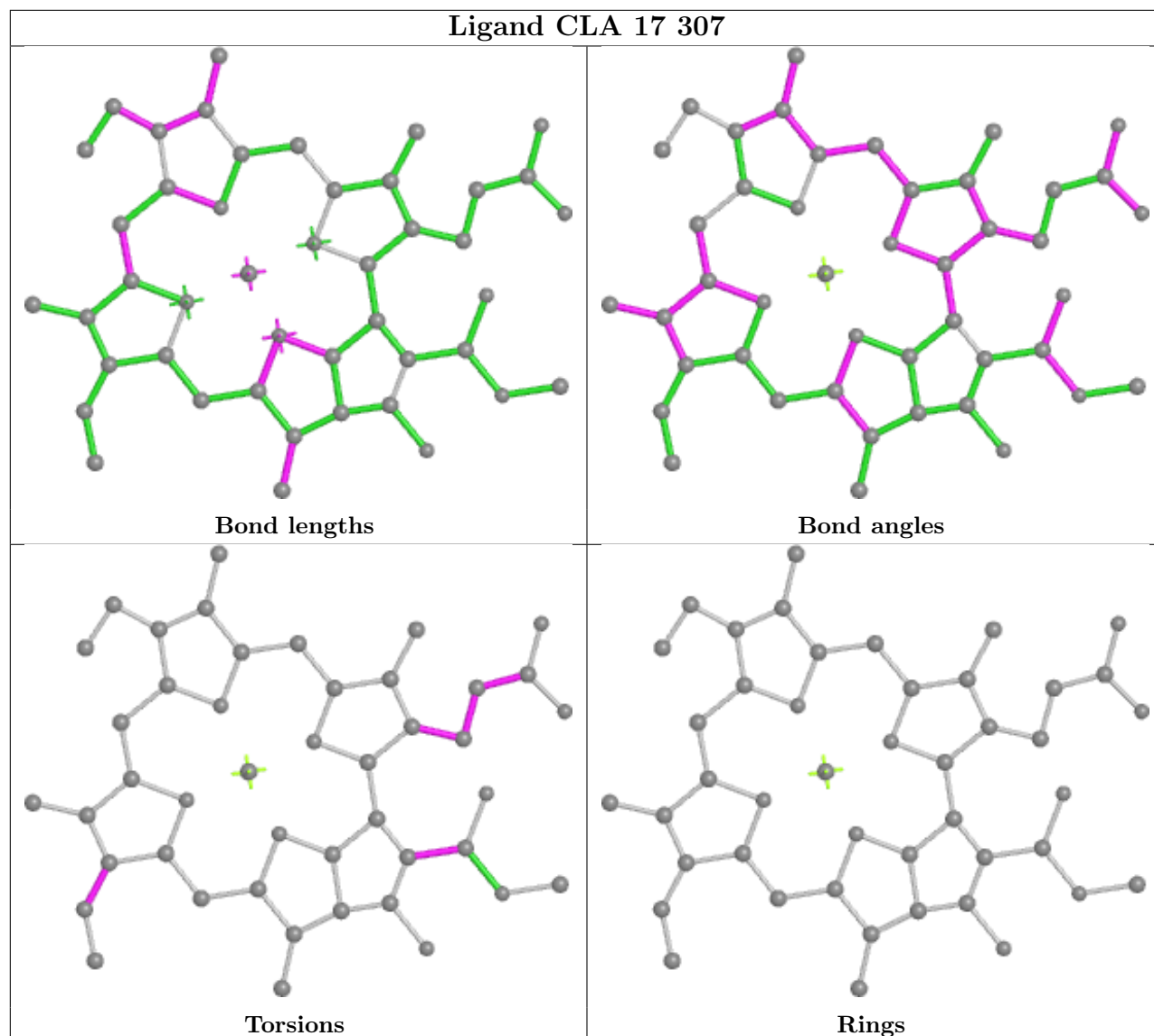


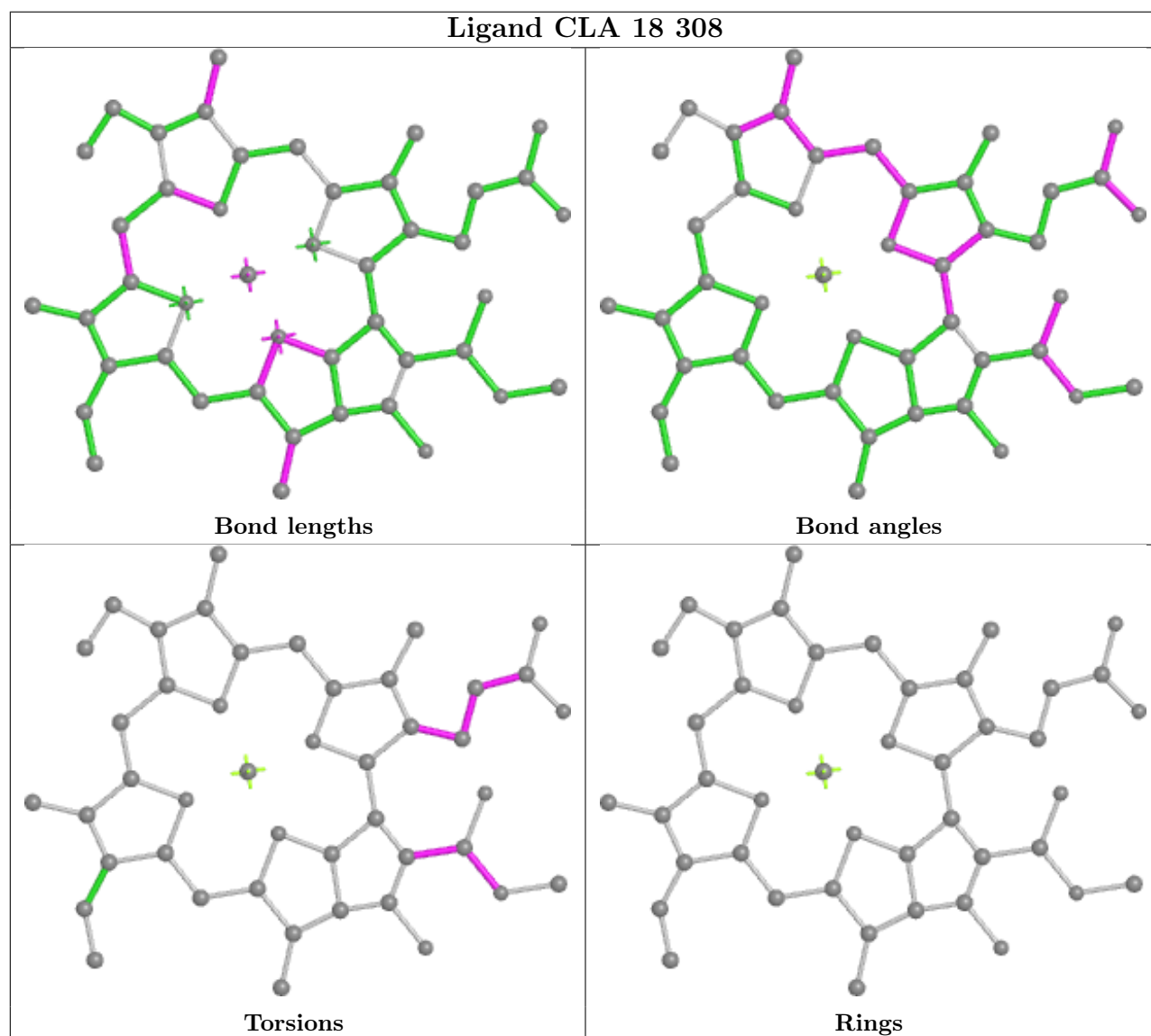
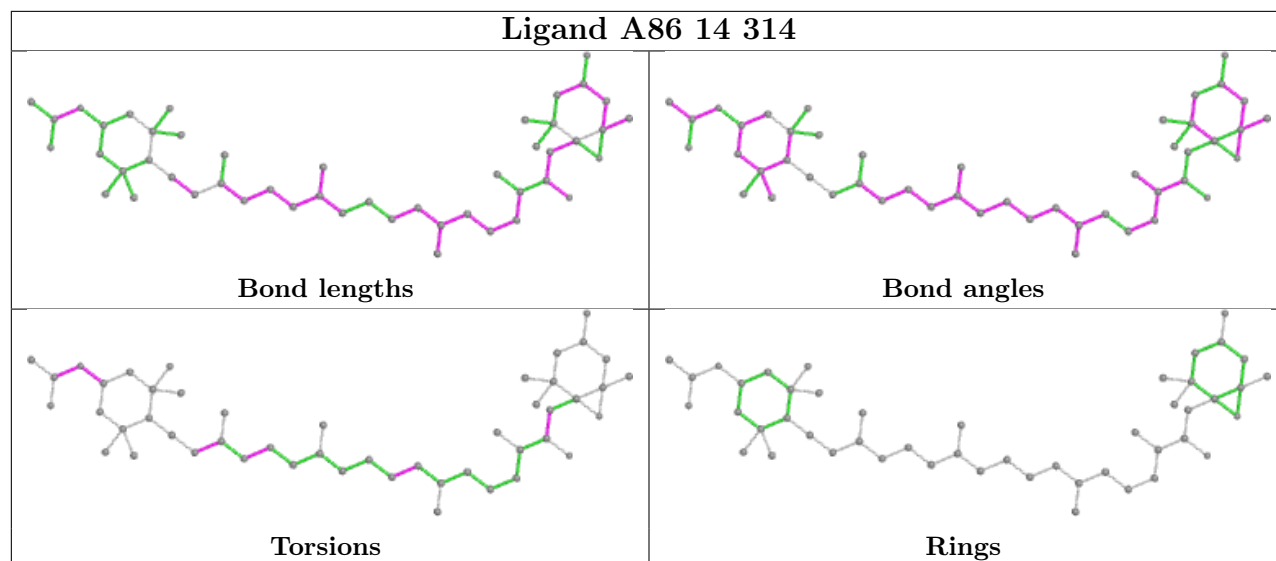


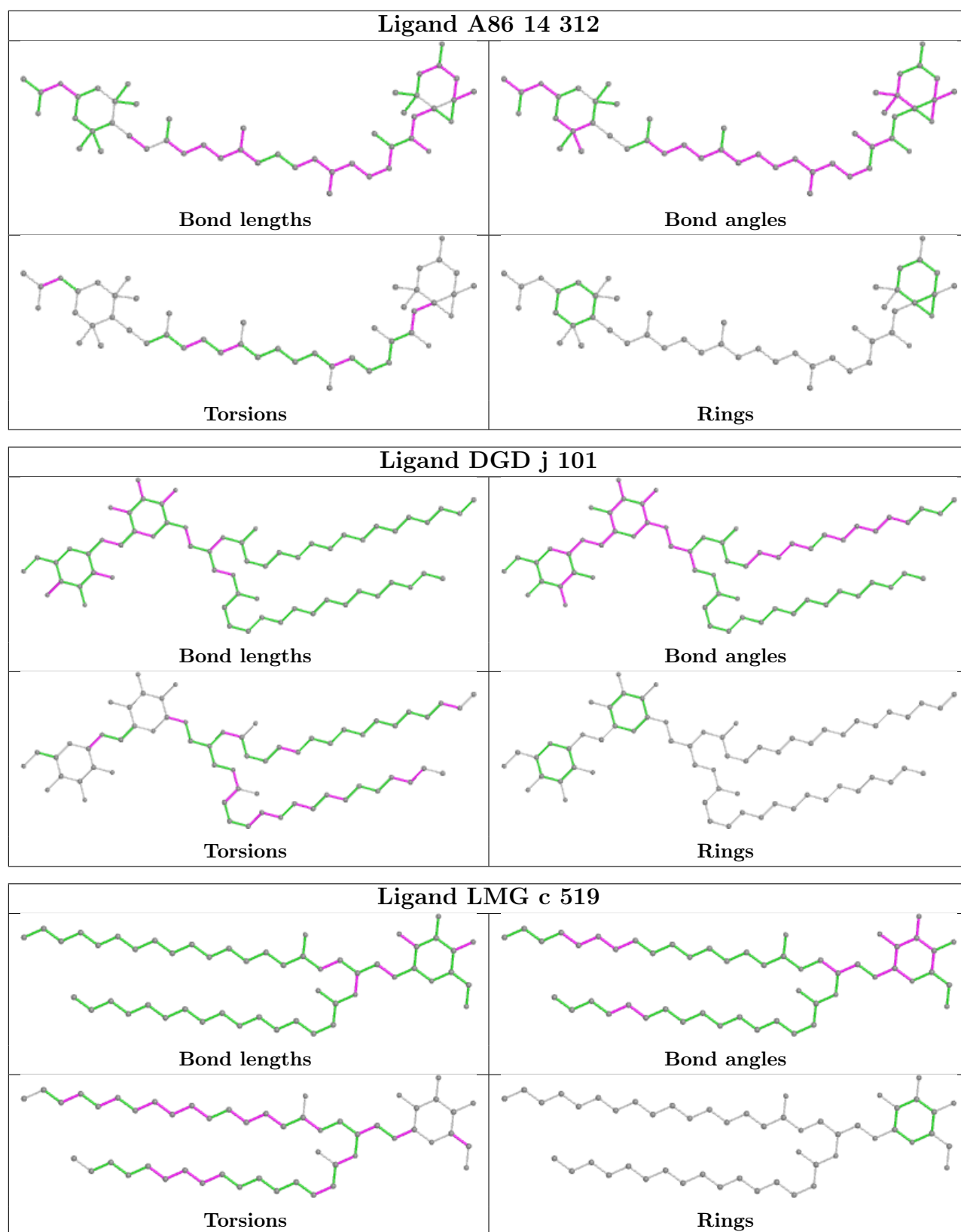


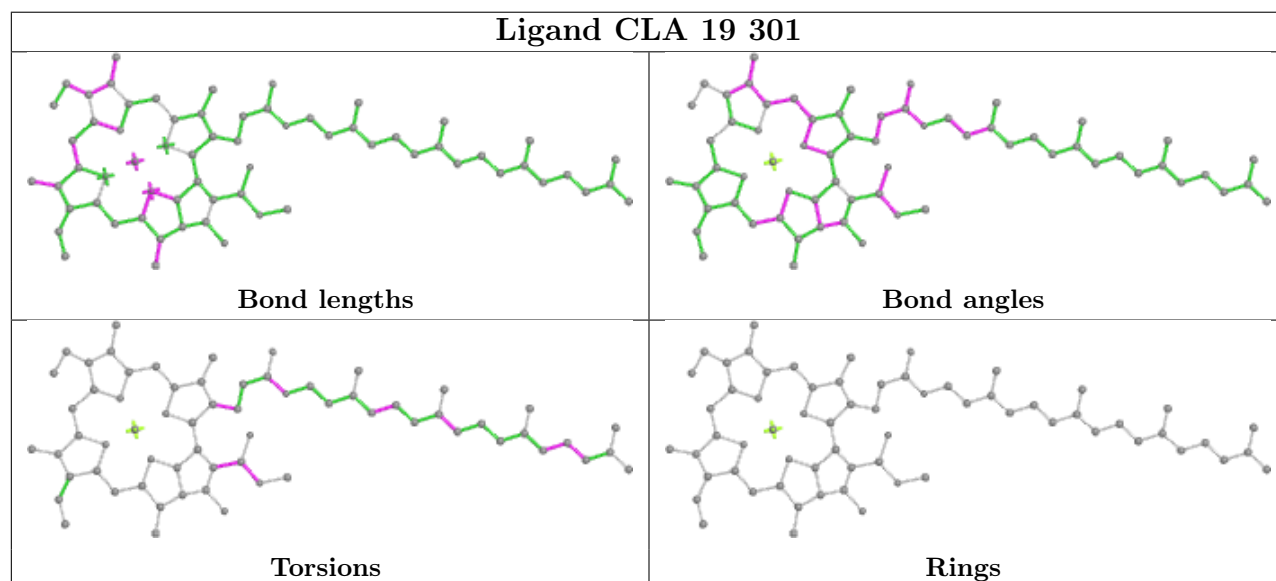
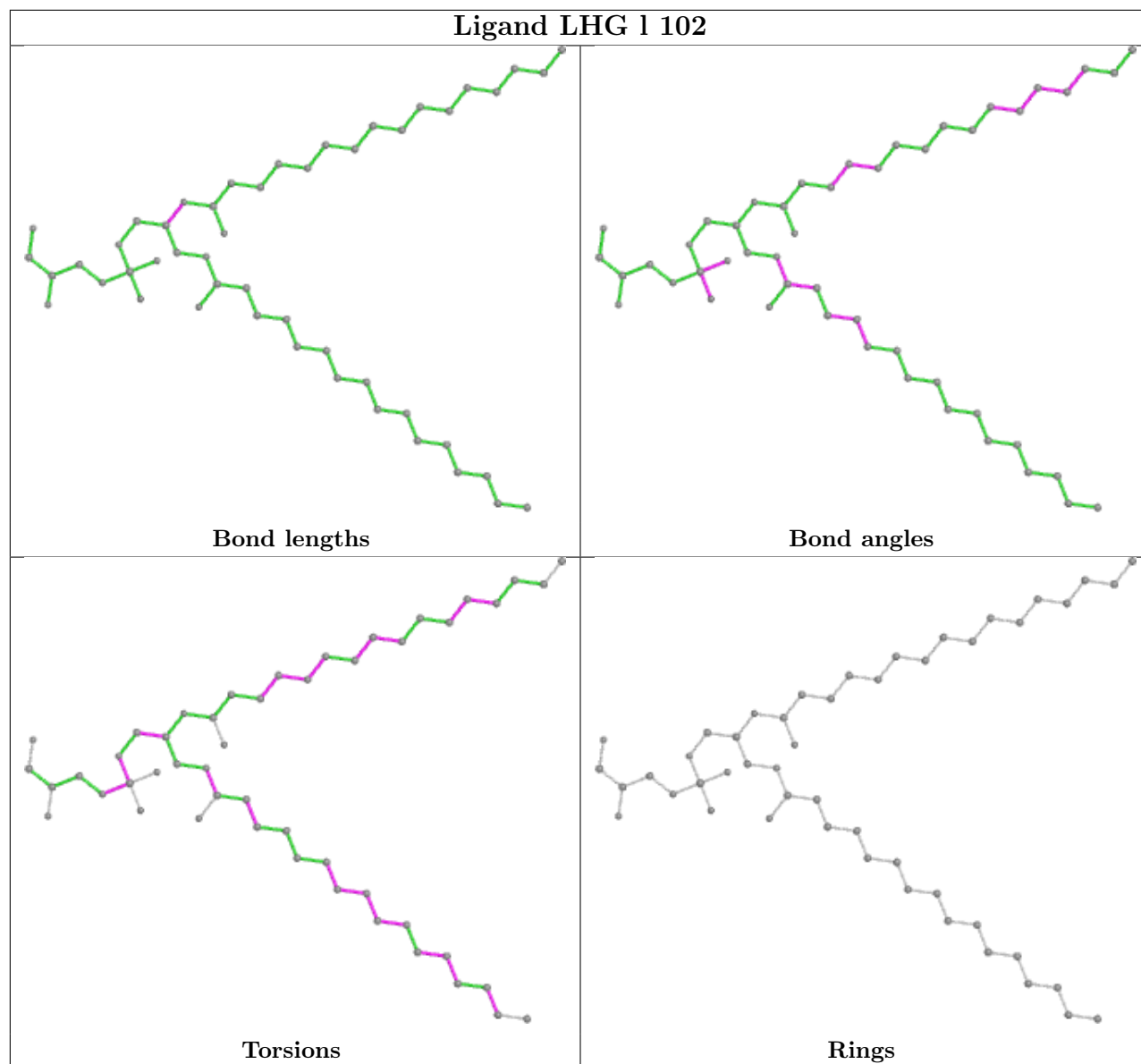




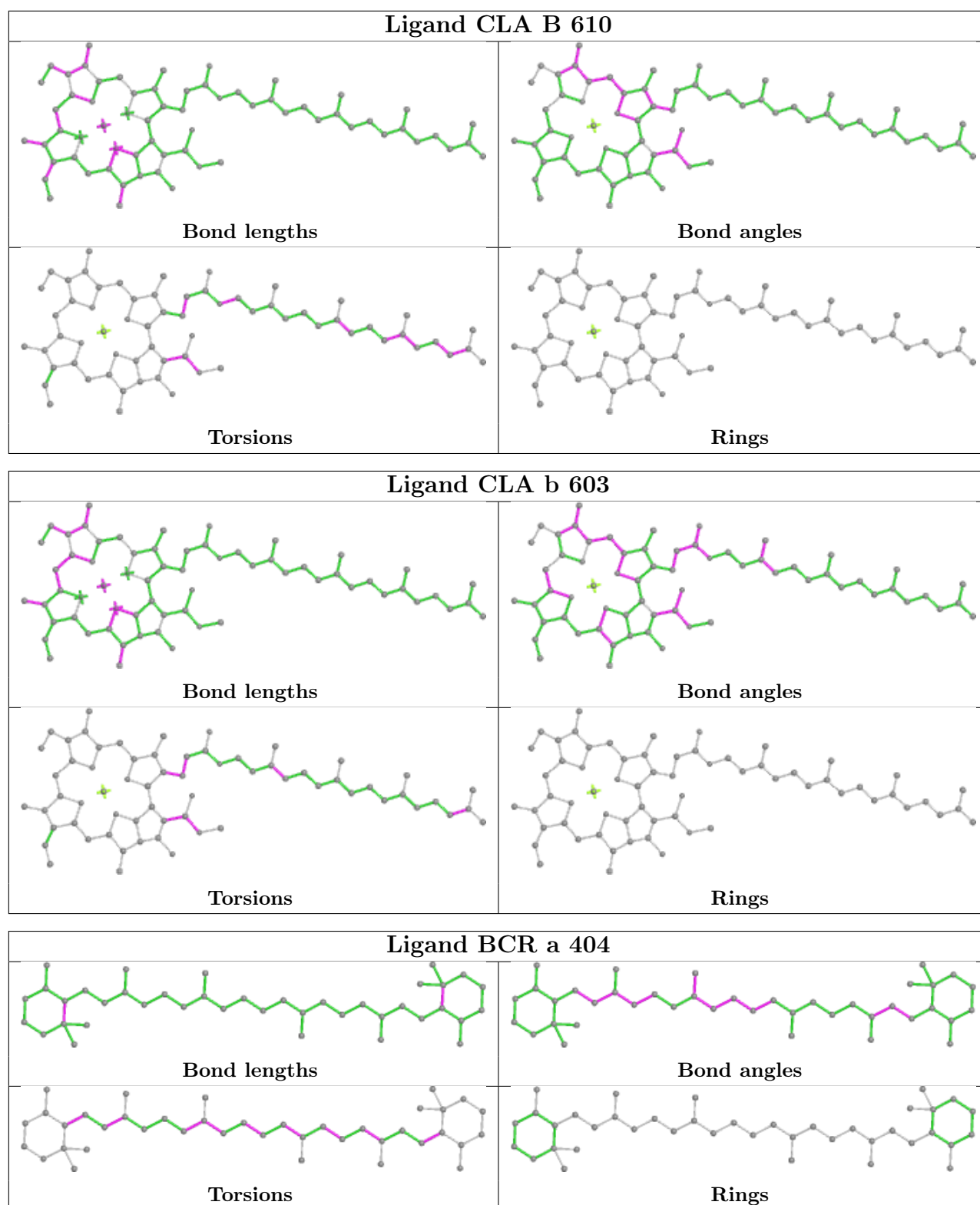


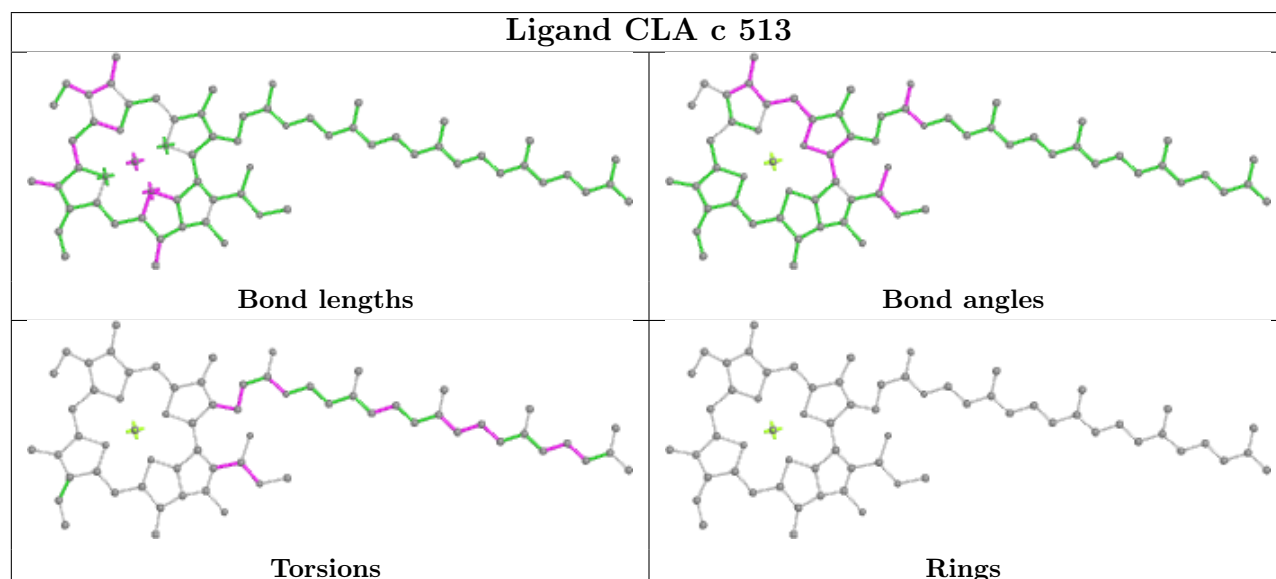
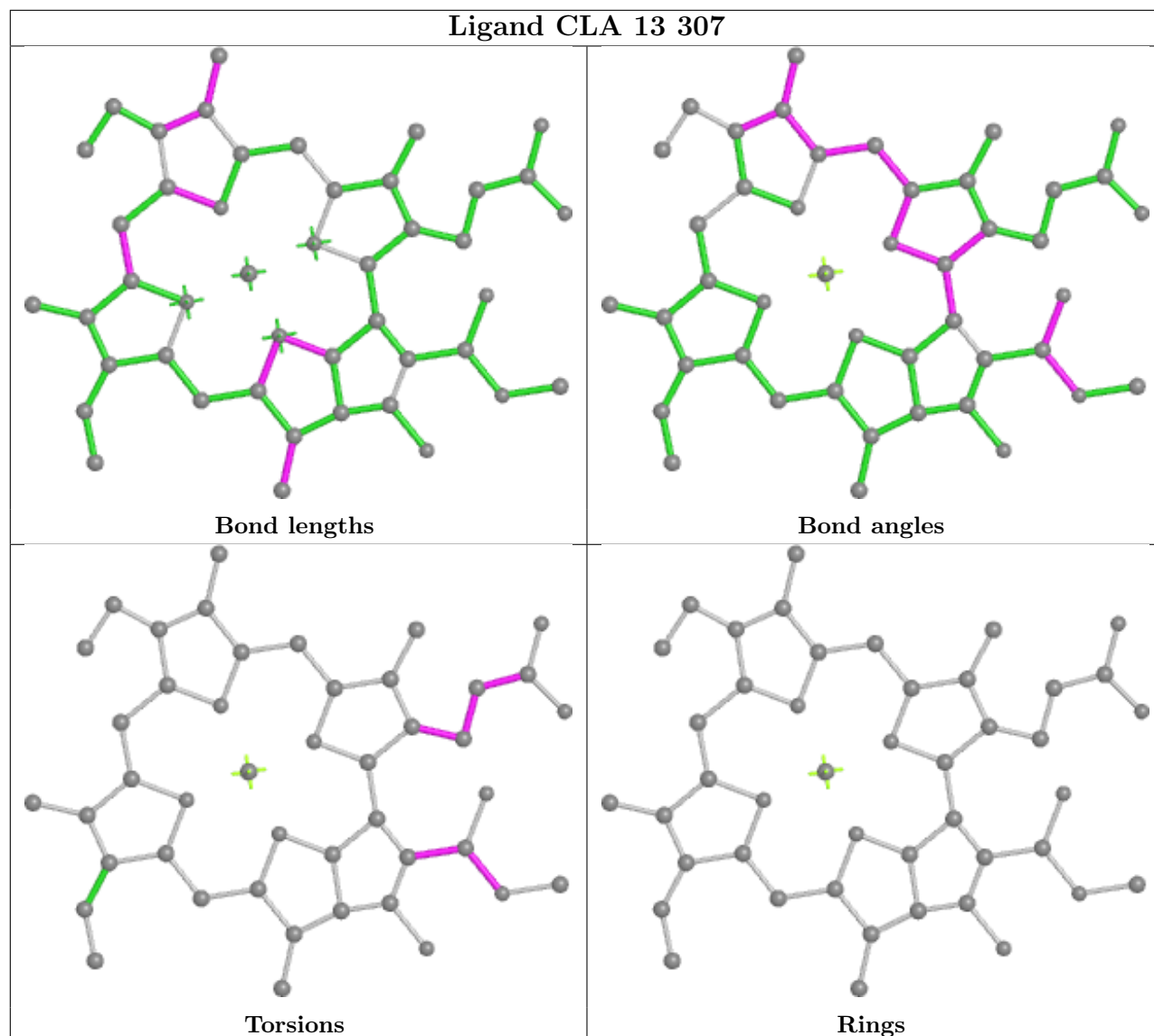


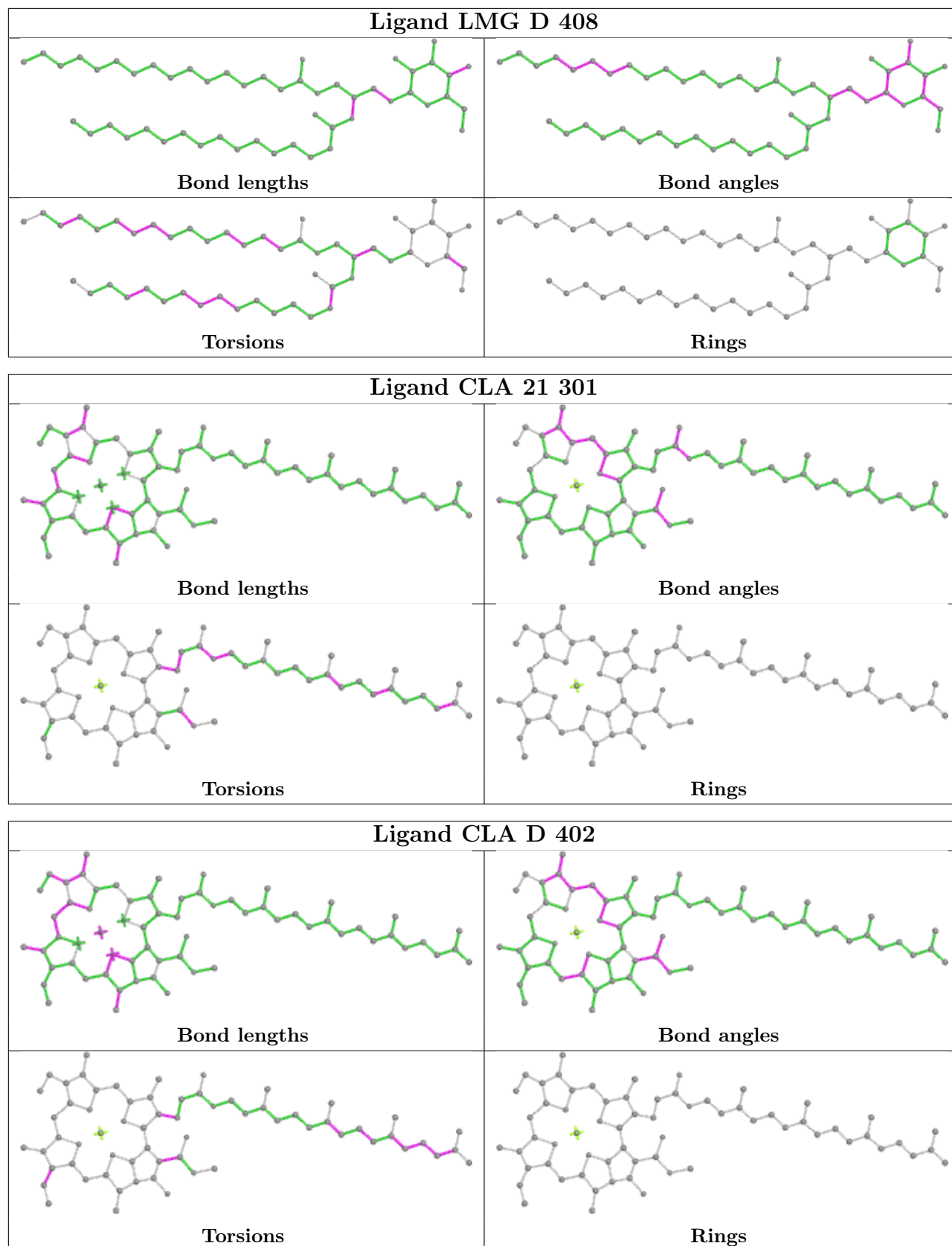


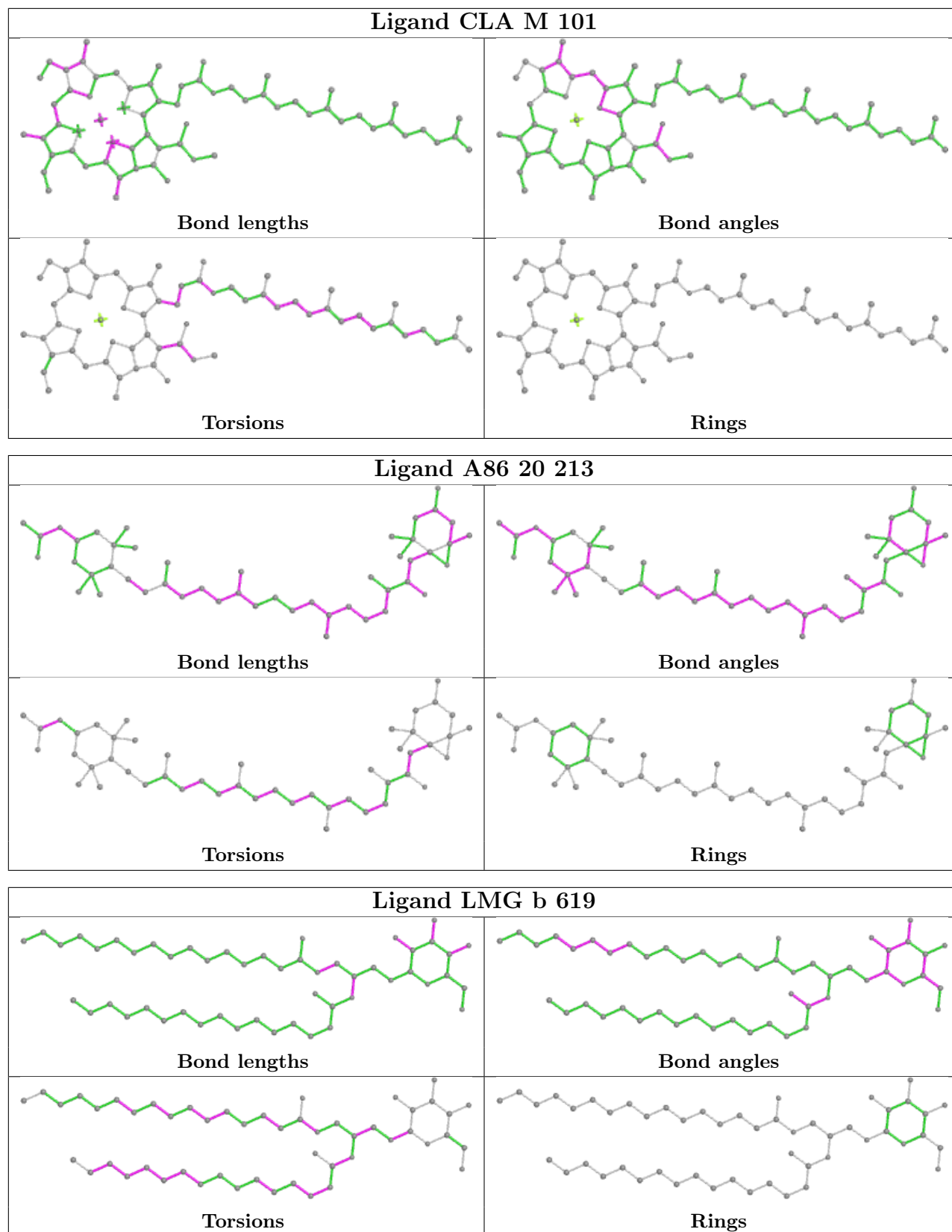


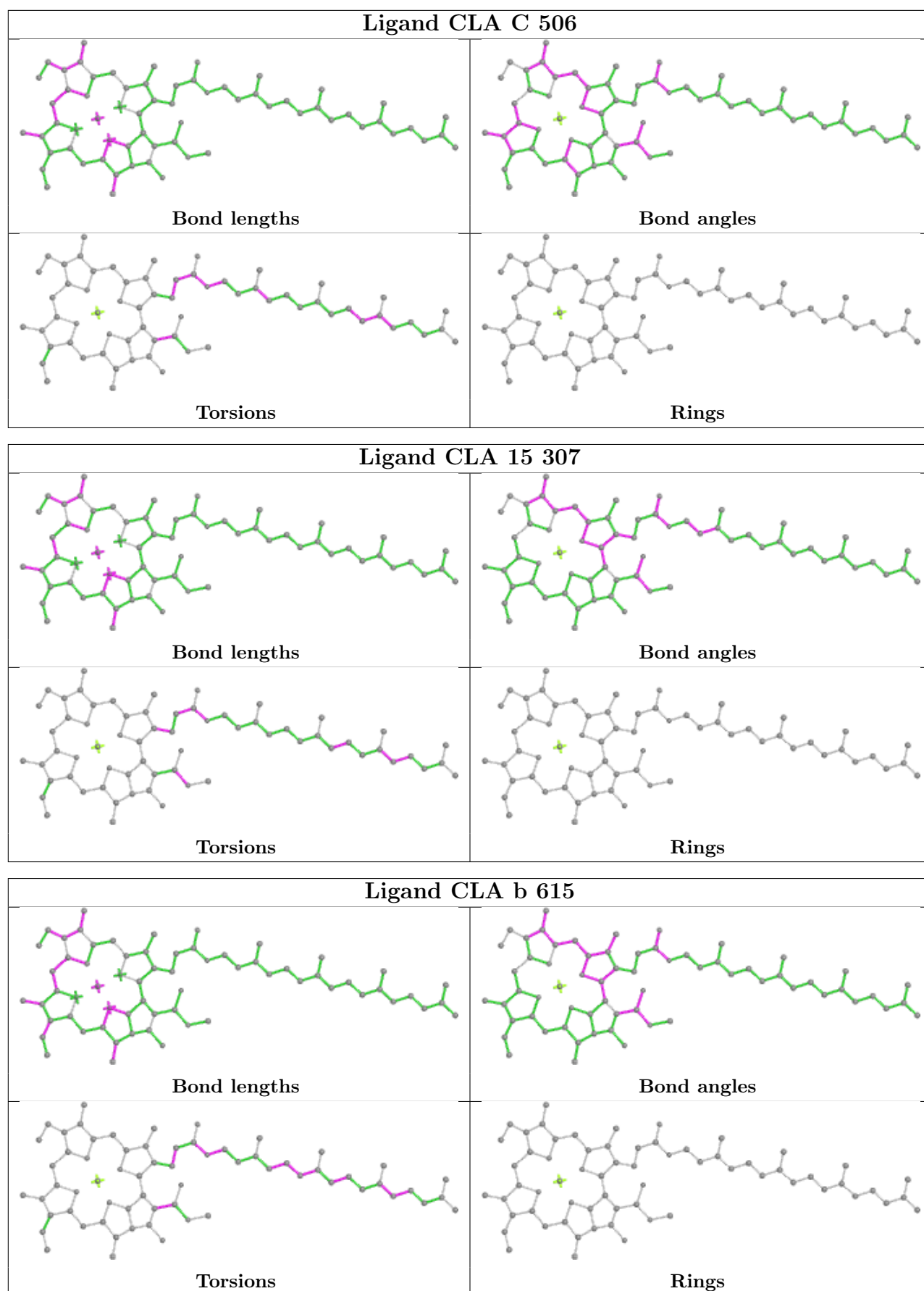


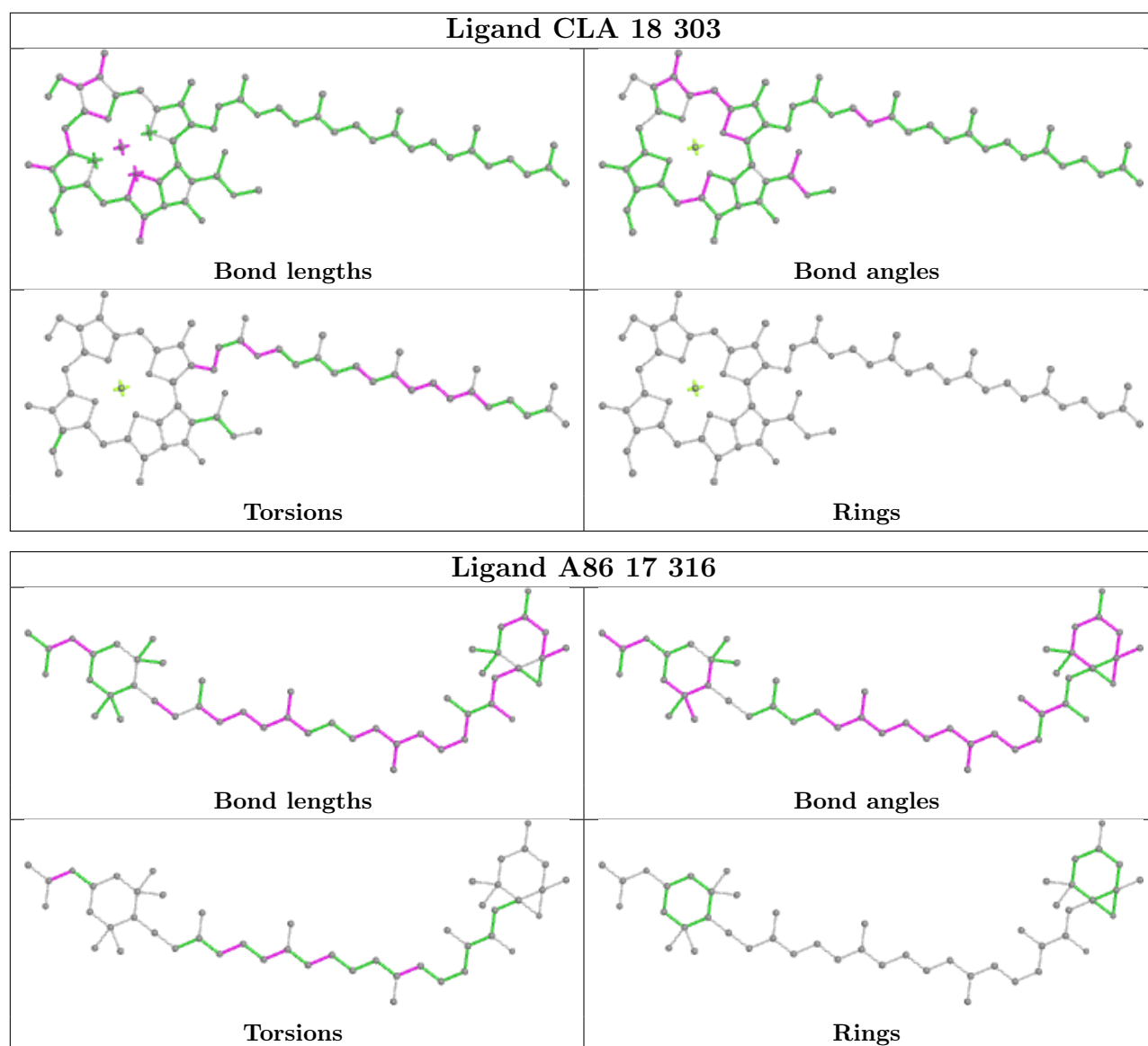












## 5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

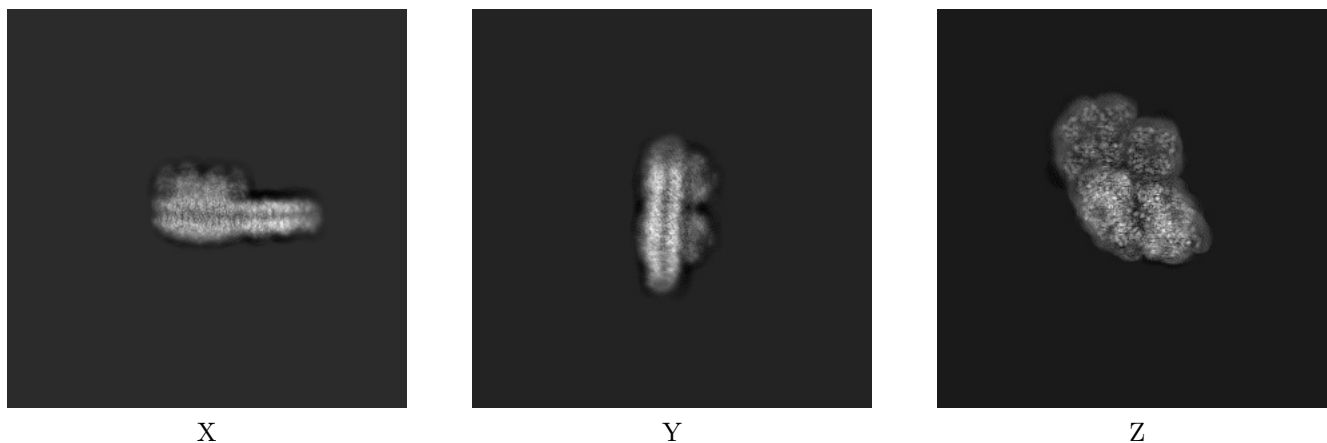
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9776. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

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

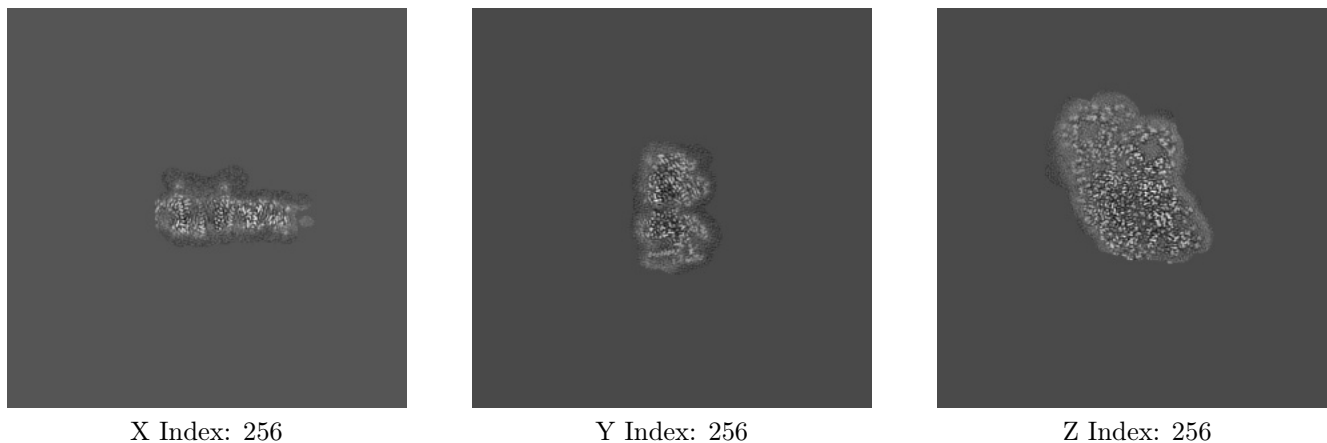
#### 6.1.1 Primary map



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

### 6.2 Central slices [i](#)

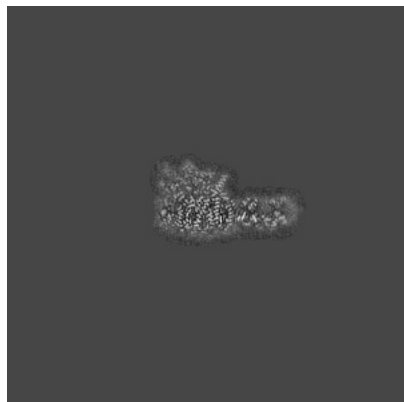
#### 6.2.1 Primary map



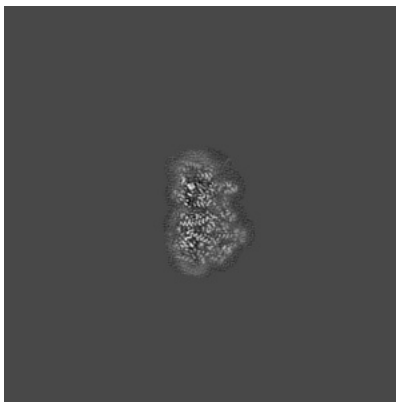
The images above show central slices of the map in three orthogonal directions.

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

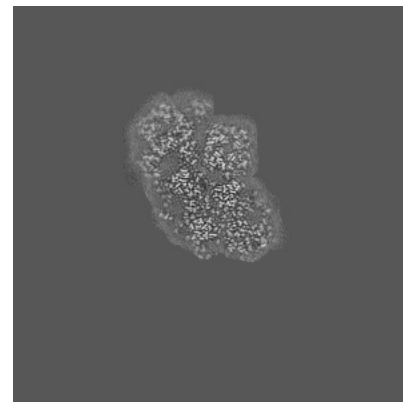
### 6.3.1 Primary map



X Index: 283



Y Index: 274



Z Index: 237

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

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

### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.06. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.



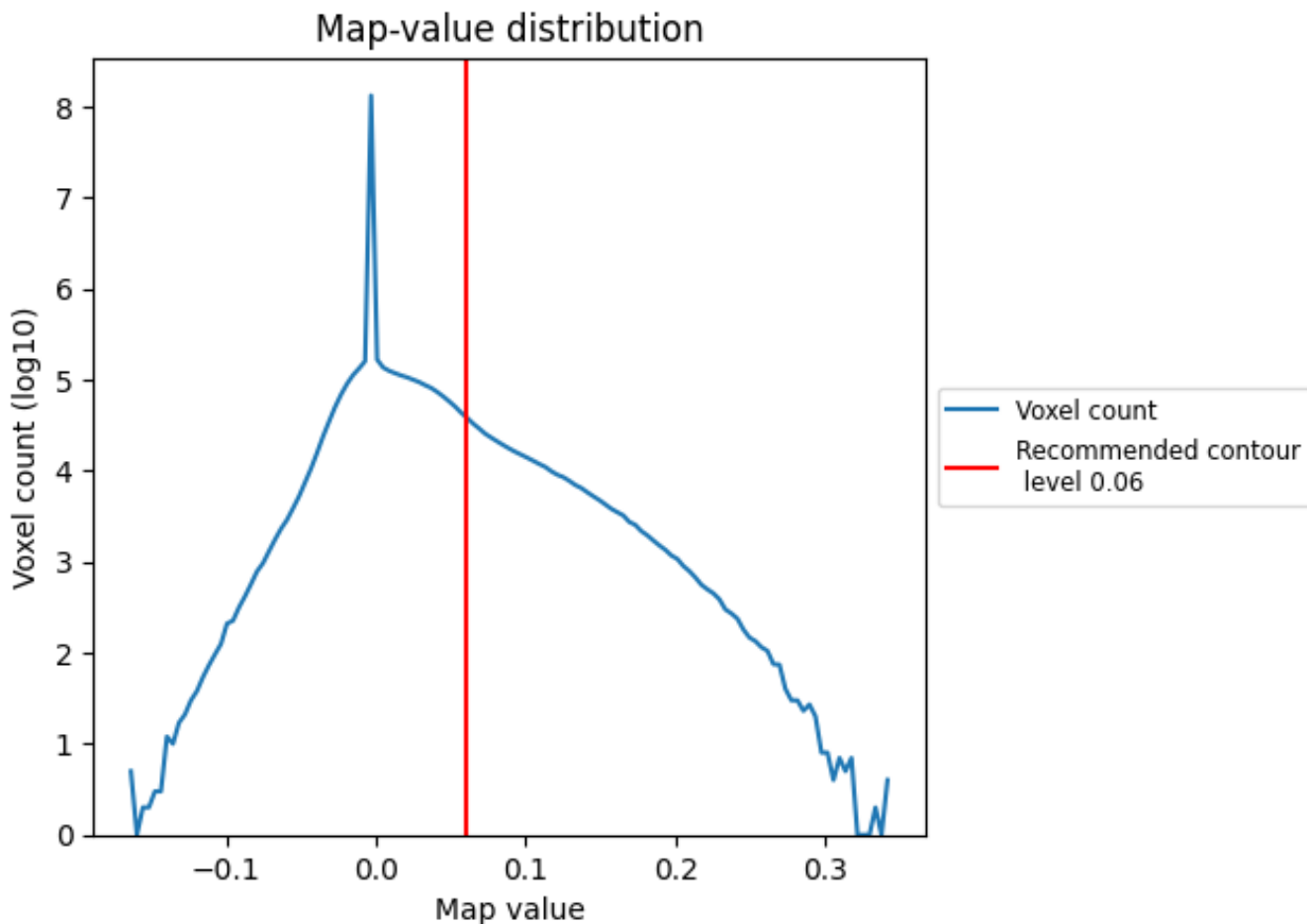
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

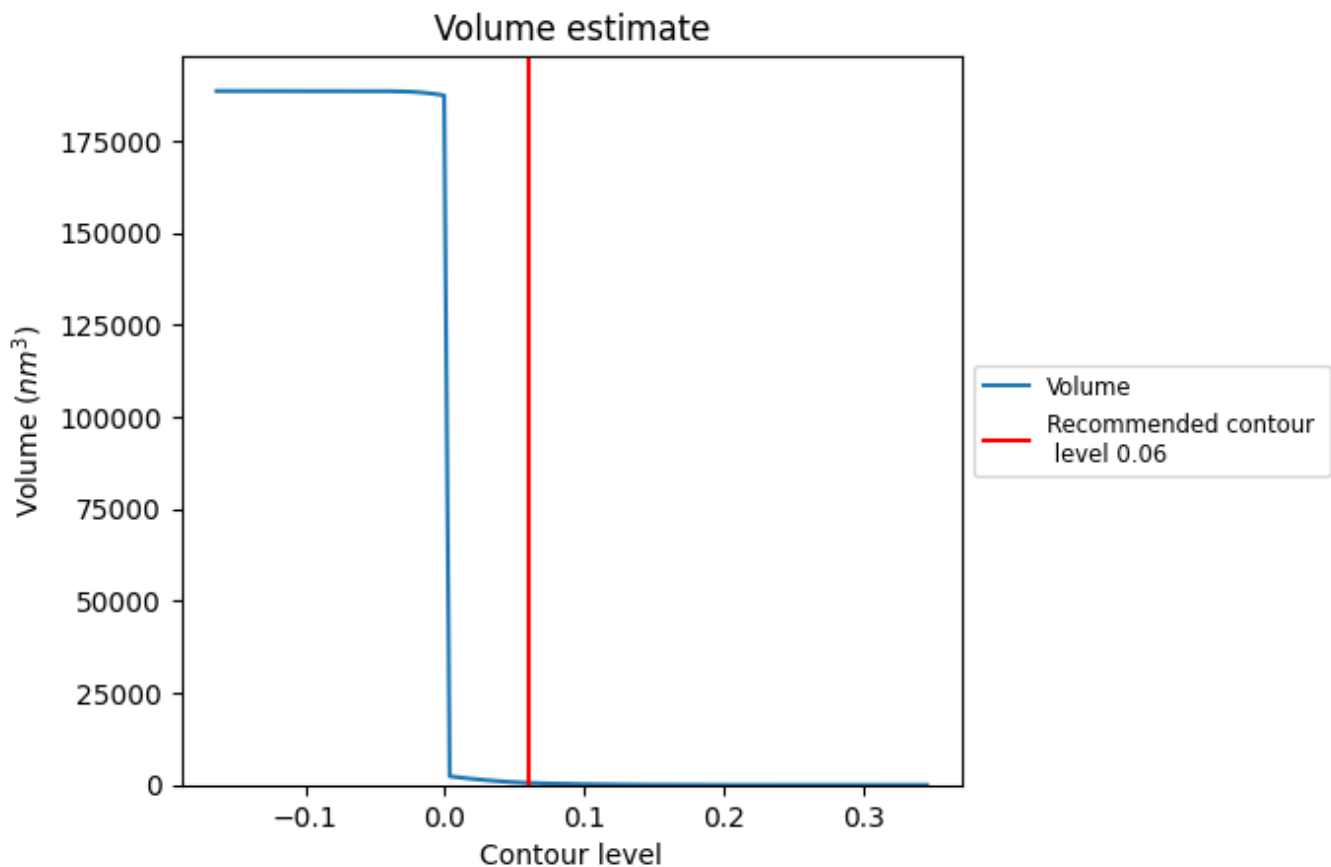
This section contains the results of statistical analysis of the map.

### 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.

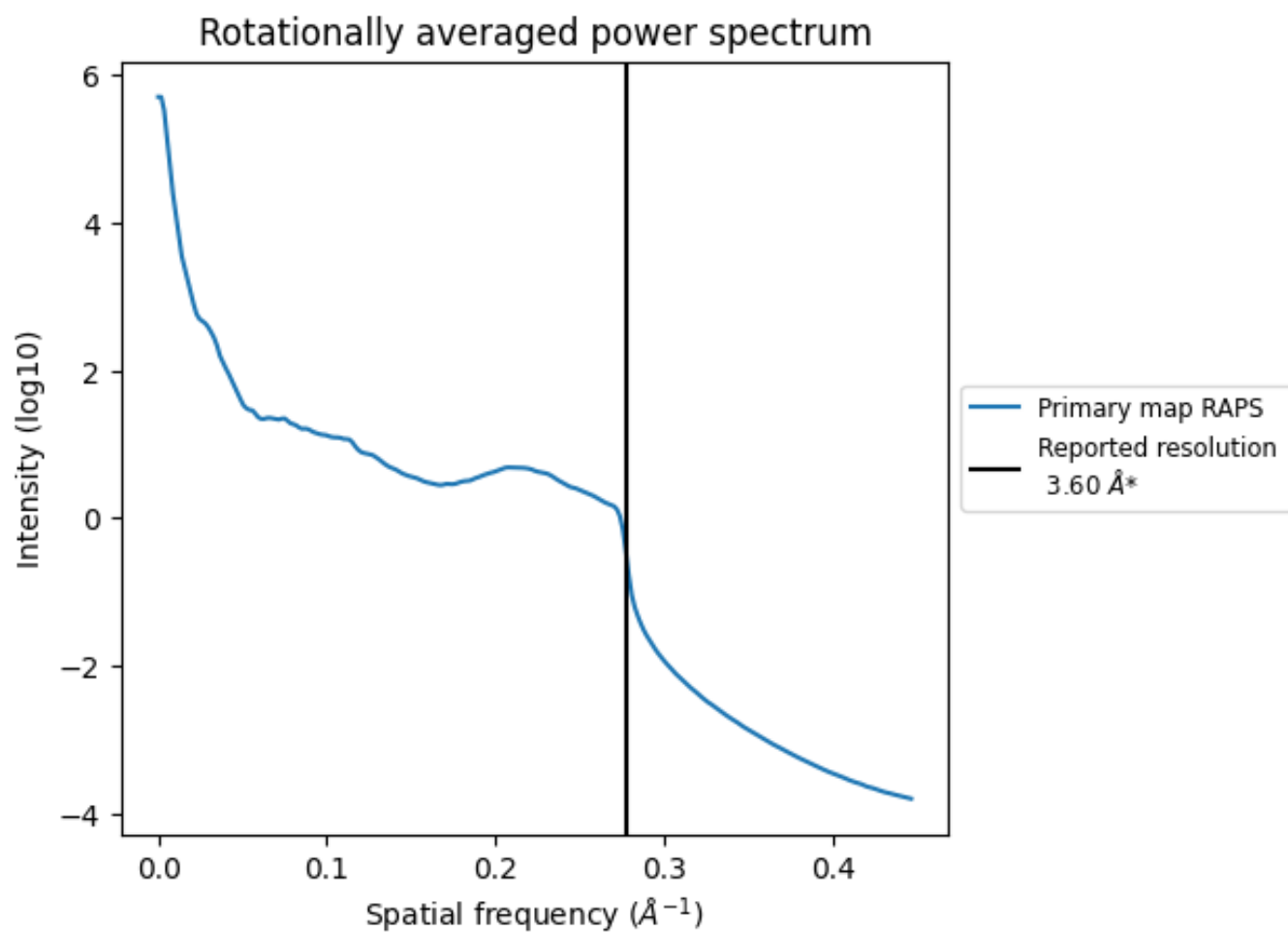
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 558 nm<sup>3</sup>; this corresponds to an approximate mass of 504 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](#)

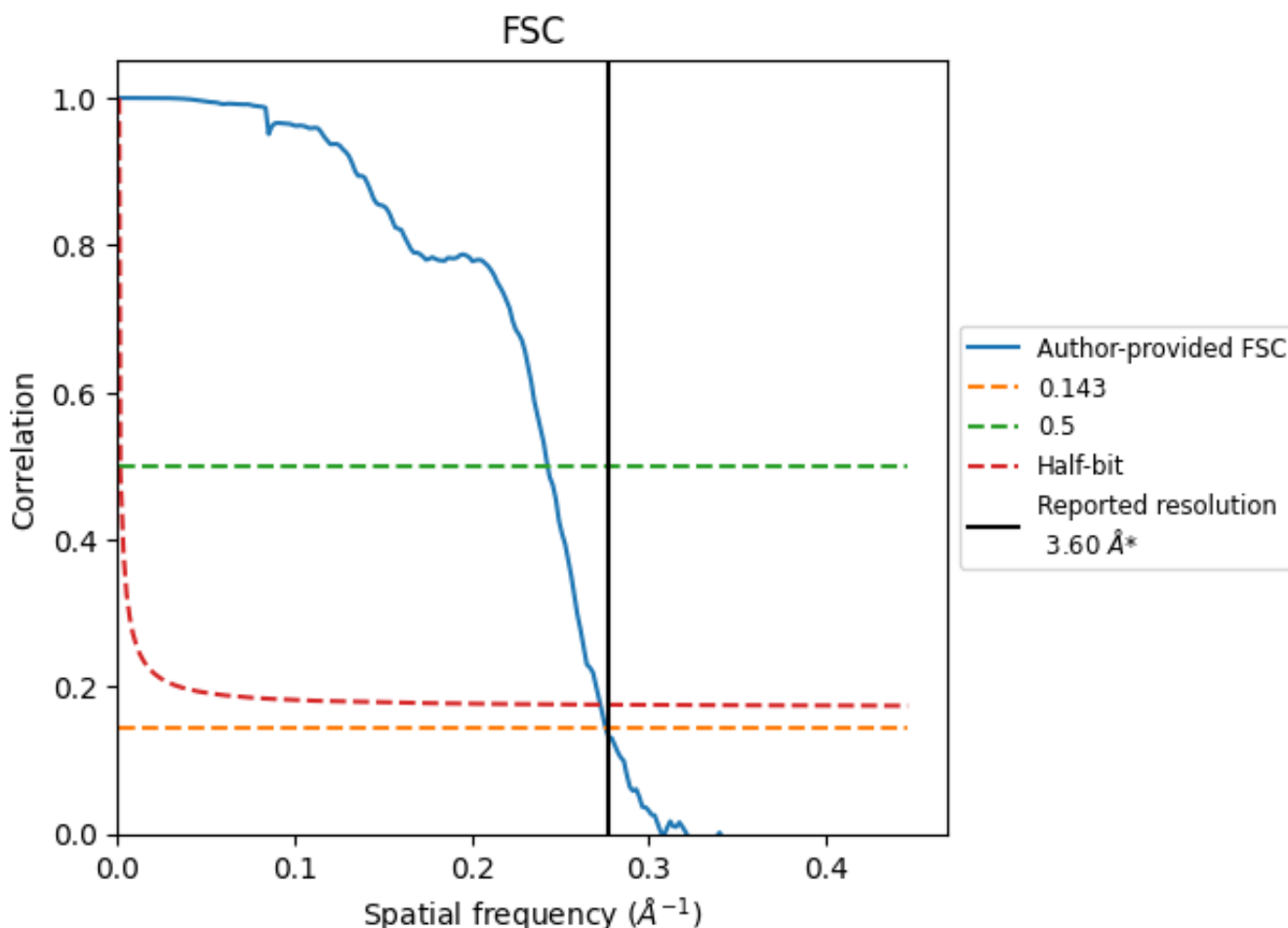


\*Reported resolution corresponds to spatial frequency of  $0.278 \text{\AA}^{-1}$

## 8 Fourier-Shell correlation [i](#)

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

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.278 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

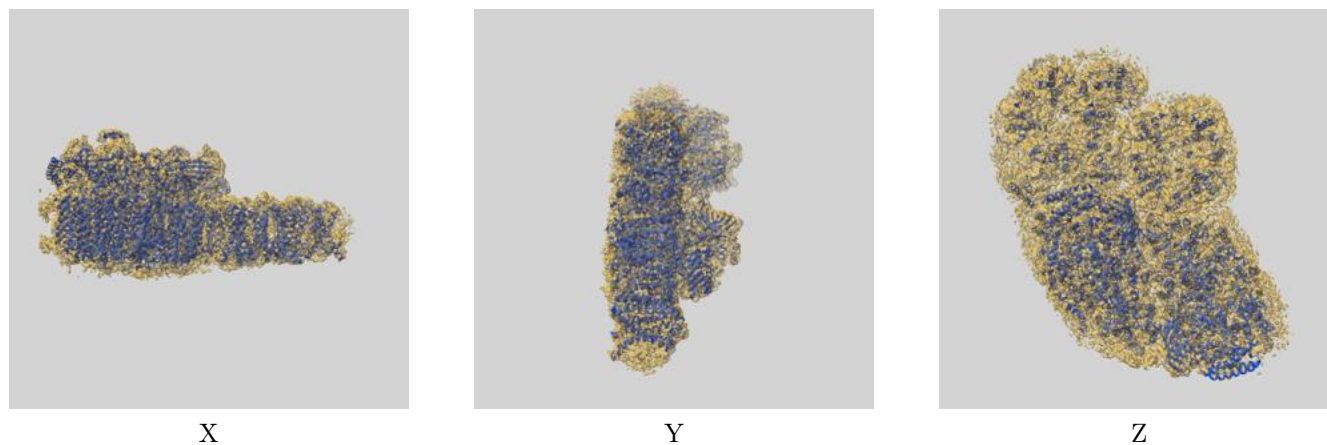
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	3.62	4.12	3.67
Unmasked-calculated*	-	-	-

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

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

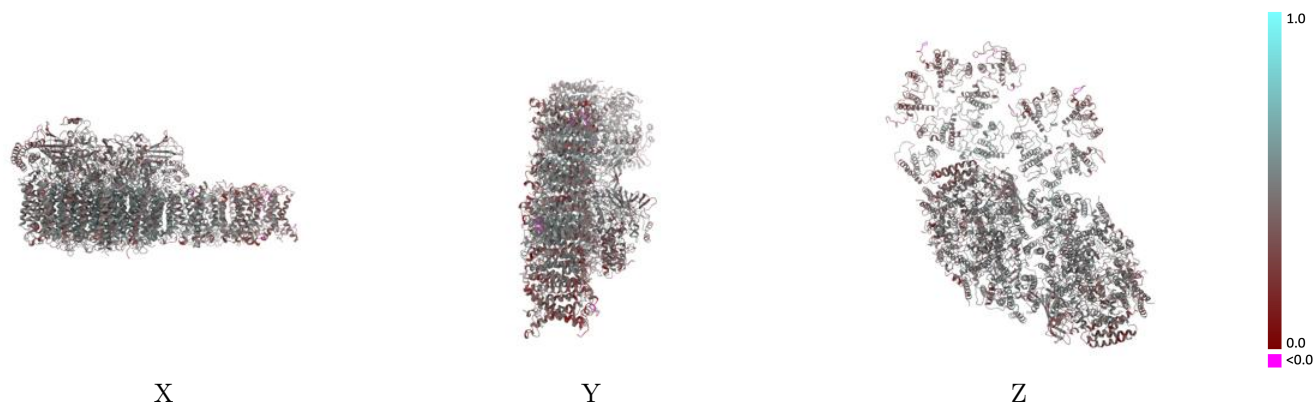
This section contains information regarding the fit between EMDB map EMD-9776 and PDB model 6J3Z. Per-residue inclusion information can be found in section 3 on page 37.

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



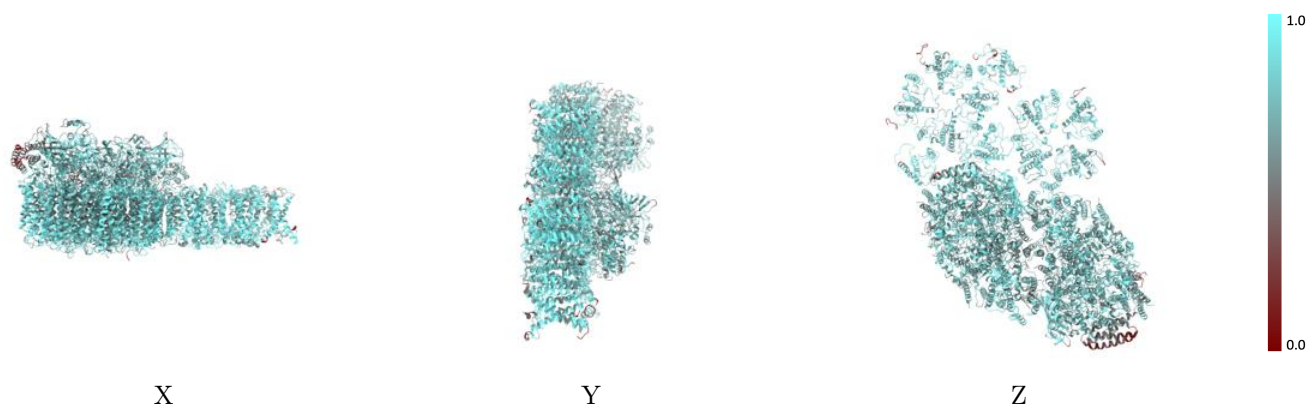
The images above show the 3D surface view of the map at the recommended contour level 0.06 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 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.

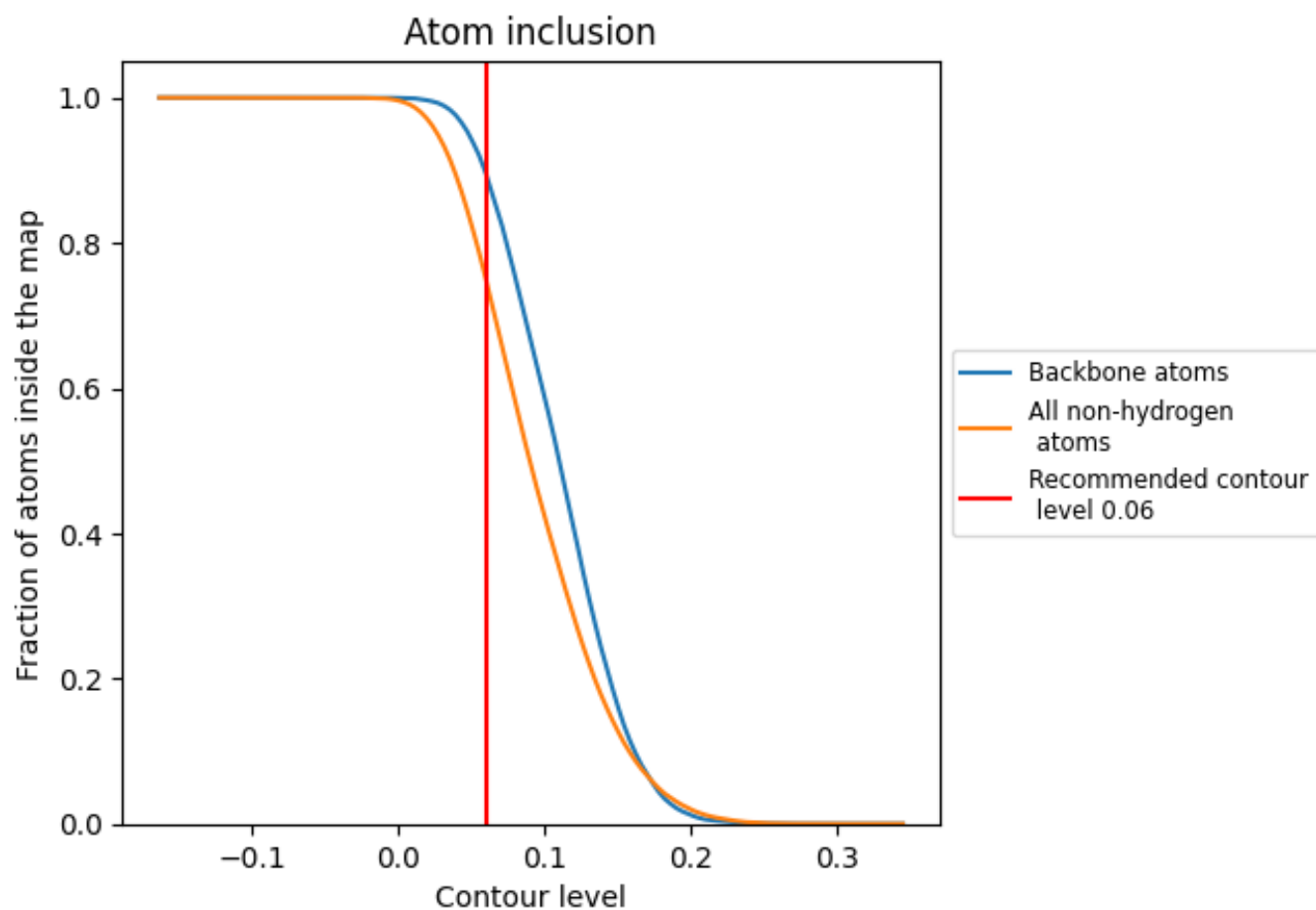
## 9.3 Atom inclusion mapped to coordinate model [i](#)



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 (0.06).









































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 90% of all backbone atoms, 75% 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 (0.06) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7498	 0.4440
0	 0.8065	 0.4800
1	 0.7989	 0.4560
11	 0.7996	 0.4590
12	 0.7621	 0.4290
13	 0.7400	 0.3620
14	 0.7471	 0.3900
15	 0.6860	 0.3320
16	 0.7633	 0.4130
17	 0.7646	 0.4300
18	 0.7026	 0.3440
19	 0.8774	 0.4910
2	 0.9200	 0.4440
20	 0.7923	 0.4140
21	 0.6318	 0.3220
5	 0.8452	 0.5000
6	 0.9067	 0.4900
7	 0.7800	 0.4160
A	 0.7914	 0.4950
B	 0.7673	 0.4850
C	 0.7835	 0.4850
D	 0.7588	 0.4850
E	 0.7754	 0.4020
F	 0.7119	 0.4340
H	 0.7686	 0.4620
I	 0.7766	 0.4740
J	 0.7010	 0.4580
K	 0.7804	 0.4690
L	 0.6674	 0.4870
M	 0.6232	 0.4450
O	 0.7256	 0.4240
Q	 0.6863	 0.3850
T	 0.7184	 0.4600
U	 0.7342	 0.4100
V	 0.7725	 0.4250



*Continued on next page...*

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Chain	Atom inclusion	Q-score
W	 0.6365	 0.4260
X	 0.6757	 0.3880
Y	 0.6367	 0.4140
Z	 0.7206	 0.4190
a	 0.7936	 0.4950
b	 0.7947	 0.4960
c	 0.7699	 0.4750
d	 0.7601	 0.4960
e	 0.7804	 0.4230
f	 0.7417	 0.4250
h	 0.7719	 0.4750
i	 0.7872	 0.4590
j	 0.7042	 0.4360
k	 0.7500	 0.4510
l	 0.6618	 0.4800
m	 0.6542	 0.4620
o	 0.6961	 0.4120
q	 0.4379	 0.3560
t	 0.7061	 0.4560
u	 0.7356	 0.4070
v	 0.7782	 0.4320
w	 0.5870	 0.3920
x	 0.6911	 0.3720
y	 0.5984	 0.3680
z	 0.7004	 0.3950