



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2024 – 02:07 PM JST

PDB ID : 8IRF  
Title : XFEL structure of cyanobacterial photosystem II following two flashes (2F) with a 1-microsecond delay  
Authors : Li, H.; Suga, M.; Shen, J.R.  
Deposited on : 2023-03-17  
Resolution : 2.25 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.36  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

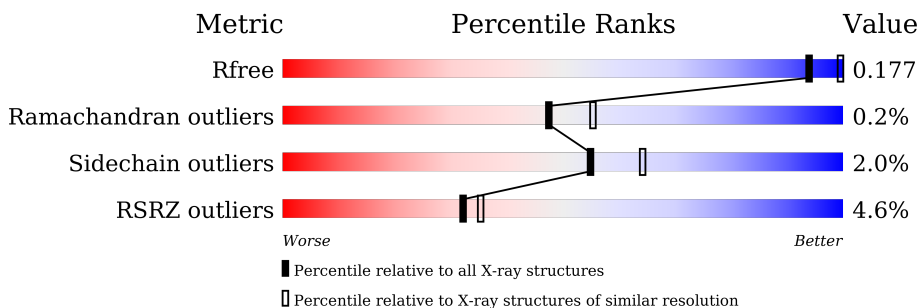
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.25 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



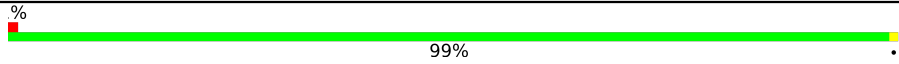
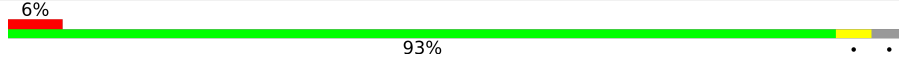
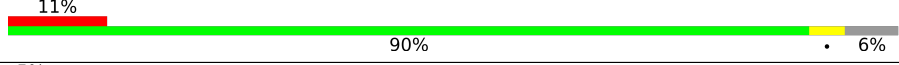

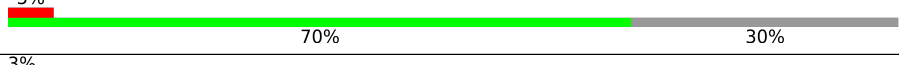
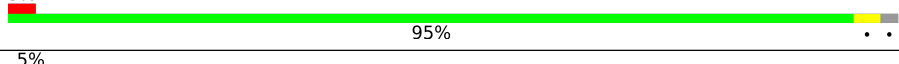
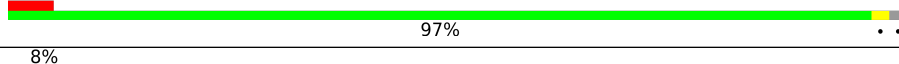
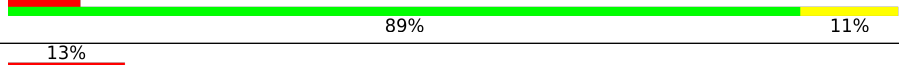
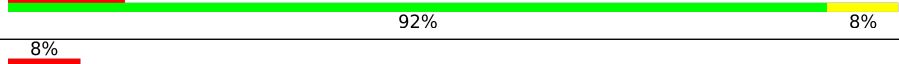
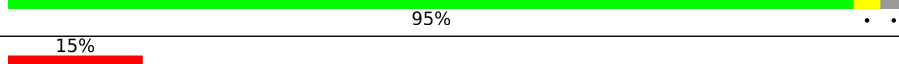
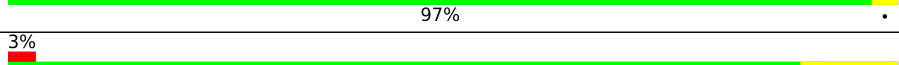
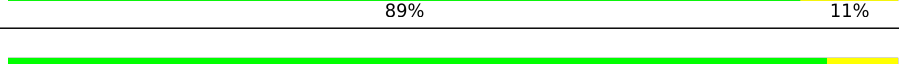
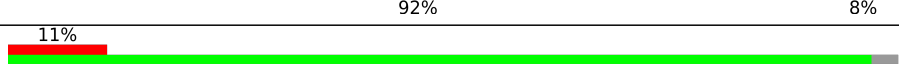
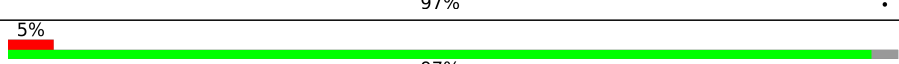
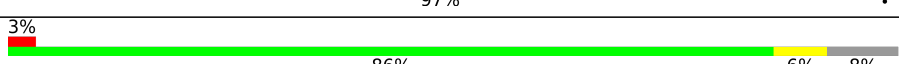
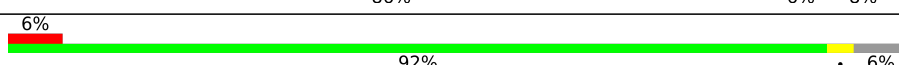
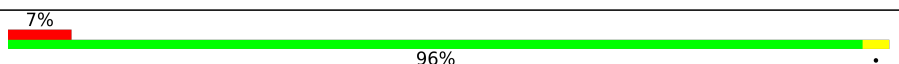
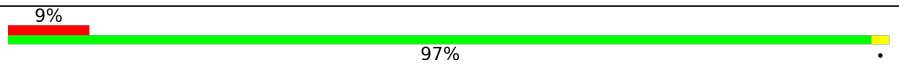
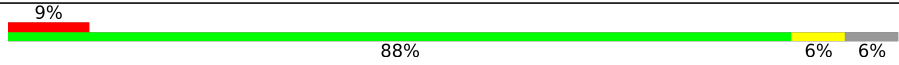
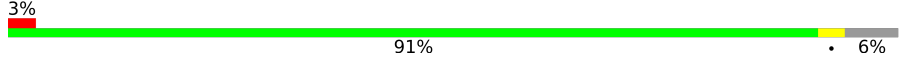
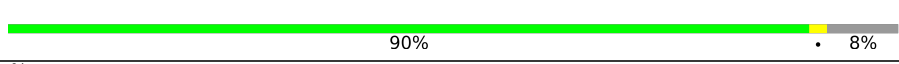
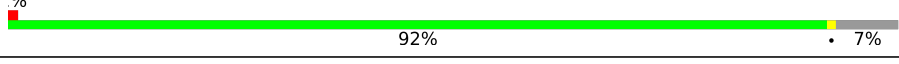
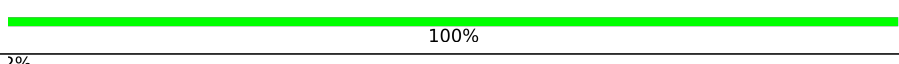
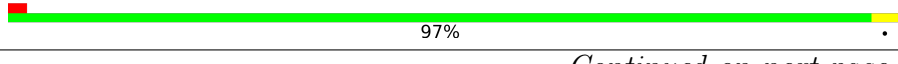

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1377 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	344	 97%
1	a	344	 97%
2	B	505	 99%
2	b	505	 98%
3	C	455	 98%
3	c	455	 99%
4	D	342	 99%

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Mol	Chain	Length	Quality of chain
4	d	342	 99%
5	E	84	 93%
5	e	84	 90% 6%
6	F	44	 77% 23%
6	f	44	 70% 30%
7	H	65	 95%
7	h	65	 97%
8	I	38	 89% 11%
8	i	38	 92% 8%
9	J	39	 95%
9	j	39	 97%
10	K	37	 89% 11%
10	k	37	 92% 8%
11	L	37	 97%
11	l	37	 97%
12	M	36	 86% 6% 8%
12	m	36	 92% 6%
13	O	244	 96%
13	o	244	 97%
14	T	32	 88% 6% 6%
14	t	32	 91% 6%
15	U	104	 90% 8%
15	u	104	 92% 7%
16	V	137	 100%
16	v	137	 97%

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Mol	Chain	Length	Quality of chain
17	X	40	
17	x	40	
18	Y	30	
18	y	30	
19	Z	62	
19	z	62	
20	R	34	

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
23	CLA	A	404[A]	X	-	-	-
23	CLA	A	404[B]	X	-	-	-
23	CLA	A	405[A]	X	-	-	-
23	CLA	A	405[B]	X	-	-	-
23	CLA	A	408	X	-	-	-
23	CLA	B	601	X	-	-	-
23	CLA	B	602	X	-	-	-
23	CLA	B	603	X	-	-	-
23	CLA	B	604	X	-	-	-
23	CLA	B	605	X	-	-	-
23	CLA	B	606	X	-	-	-
23	CLA	B	607	X	-	-	-
23	CLA	B	609	X	-	-	-
23	CLA	B	610	X	-	-	-
23	CLA	B	611	X	-	-	-
23	CLA	B	612	X	-	-	-
23	CLA	B	613	X	-	-	-
23	CLA	B	614	X	-	-	-
23	CLA	B	615	X	-	-	-
23	CLA	B	616	X	-	-	-
23	CLA	C	502	X	-	-	-
23	CLA	C	503	X	-	-	-
23	CLA	C	504	X	-	-	-
23	CLA	C	505	X	-	-	-
23	CLA	C	506	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	CLA	C	507	X	-	-	-
23	CLA	C	508	X	-	-	-
23	CLA	C	509	X	-	-	-
23	CLA	C	510	X	-	-	-
23	CLA	C	511	X	-	-	-
23	CLA	C	512	X	-	-	-
23	CLA	C	513	X	-	-	-
23	CLA	C	514	X	-	-	-
23	CLA	D	402[A]	X	-	-	-
23	CLA	D	402[B]	X	-	-	-
23	CLA	D	403	X	-	-	-
23	CLA	a	404[A]	X	-	-	-
23	CLA	a	404[B]	X	-	-	-
23	CLA	a	405[A]	X	-	-	-
23	CLA	a	405[B]	X	-	-	-
23	CLA	a	408	X	-	-	-
23	CLA	b	601	X	-	-	-
23	CLA	b	602	X	-	-	-
23	CLA	b	603	X	-	-	-
23	CLA	b	604	X	-	-	-
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23	CLA	b	612	X	-	-	-
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23	CLA	b	614	X	-	-	-
23	CLA	b	615	X	-	-	-
23	CLA	b	616	X	-	-	-
23	CLA	c	501	X	-	-	-
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23	CLA	c	503	X	-	-	-
23	CLA	c	504	X	-	-	-
23	CLA	c	505	X	-	-	-
23	CLA	c	506	X	-	-	-
23	CLA	c	507	X	-	-	-
23	CLA	c	508	X	-	-	-
23	CLA	c	509	X	-	-	-
23	CLA	c	510	X	-	-	-
23	CLA	c	511	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	CLA	c	512	X	-	-	-
23	CLA	c	513	X	-	-	-
23	CLA	d	402[A]	X	-	-	-
23	CLA	d	402[B]	X	-	-	-
23	CLA	d	403	X	-	-	-
27	GOL	D	412	-	X	-	-
27	GOL	a	418	-	-	-	X
30	UNL	c	524[A]	-	-	-	X
30	UNL	c	524[B]	-	-	-	X
31	LMT	F	101	-	-	-	X
31	LMT	a	417	-	-	-	X
31	LMT	e	101	-	-	-	X
34	HTG	b	623	-	-	-	X

## 2 Entry composition i

There are 41 unique types of molecules in this entry. The entry contains 62602 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Photosystem II protein D1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	334	4338	2836	717	760	25	0	222	0
1	a	334	4330	2830	716	759	25	0	221	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	279	PRO	ARG	conflict	UNP P51765
a	279	PRO	ARG	conflict	UNP P51765

- Molecule 2 is a protein called Photosystem II CP47 reaction center protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	504	4146	2721	692	720	13	0	20	0
2	b	504	4134	2718	687	716	13	0	19	0

- Molecule 3 is a protein called Photosystem II CP43 reaction center protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	451	4260	2788	713	741	18	0	97	0
3	c	455	4308	2821	719	750	18	0	100	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	19	ASN	-	expression tag	UNP D0VWR7
C	20	SER	-	expression tag	UNP D0VWR7

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Chain	Residue	Modelled	Actual	Comment	Reference
C	21	ILE	-	expression tag	UNP D0VWR7
C	22	PHE	-	expression tag	UNP D0VWR7
c	19	ASN	-	expression tag	UNP D0VWR7
c	20	SER	-	expression tag	UNP D0VWR7
c	21	ILE	-	expression tag	UNP D0VWR7
c	22	PHE	-	expression tag	UNP D0VWR7

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	342	Total	C	N	O	S	0	114	0
			3620	2387	596	622	15			
4	d	341	Total	C	N	O	S	0	116	0
			3628	2391	599	623	15			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	81	Total	C	N	O	S	0	0	0
			662	432	107	123				
5	e	79	Total	C	N	O	S	0	2	0
			670	439	110	121				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	34	Total	C	N	O	S	0	0	0
			275	187	45	42	1			
6	f	31	Total	C	N	O	S	0	1	0
			261	179	43	38	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	H	64	Total	C	N	O	S	0	0	0
			506	339	81	84	2			
7	h	64	Total	C	N	O	S	0	1	0
			517	345	85	85	2			

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



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	I	38	Total	C	N	O	S	0	0	0
			314	211	48	54	1			
8	i	38	Total	C	N	O	S	0	0	0
			314	211	48	54	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	J	38	Total	C	N	O	S	0	0	0
			272	182	42	47	1			
9	j	39	Total	C	N	O	S	0	0	0
			277	185	43	48	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	K	37	Total	C	N	O	0	0	0
			293	204	43	46			
10	k	37	Total	C	N	O	0	0	0
			293	204	43	46			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	33	LEU	PHE	conflict	UNP P19054
K	39	TRP	VAL	conflict	UNP P19054
k	33	LEU	PHE	conflict	UNP P19054
k	39	TRP	VAL	conflict	UNP P19054

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	L	36	Total	C	N	O	0	2	0
			311	207	49	55			
11	l	36	Total	C	N	O	0	2	0
			311	207	49	55			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	M	33	Total	C	N	O	S	0	1	0
			268	179	39	49	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	m	34	Total	C	N	O	S	0	2	0
			286	190	43	52	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	8	LEU	PHE	conflict	UNP P12312
m	8	LEU	PHE	conflict	UNP P12312

- Molecule 13 is a protein called Photosystem II manganese-stabilizing polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	O	243	Total	C	N	O	S	0	10	0
			1958	1221	335	398	4			
13	o	243	Total	C	N	O	S	0	8	0
			1933	1207	330	392	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	T	30	Total	C	N	O	S	0	6	0
			311	213	48	48	2			
14	t	30	Total	C	N	O	S	0	5	0
			302	208	47	45	2			

- Molecule 15 is a protein called Photosystem II 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	U	96	Total	C	N	O	0	4	0
			800	508	133	159			
15	u	97	Total	C	N	O	0	4	0
			807	513	134	160			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	V	137	Total	C	N	O	S	0	6	0
			1120	711	185	220	4			
16	v	137	Total	C	N	O	S	0	6	0
			1117	712	185	216	4			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	X	38	Total	C	N	O	0	1	0
			289	194	46	49			
17	x	38	Total	C	N	O	0	0	0
			281	188	45	48			

- Molecule 18 is a protein called Photosystem II reaction center protein Ycf12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	Y	29	Total	C	N	O	S	0	0	0
			215	142	37	33	3			
18	y	29	Total	C	N	O	S	0	0	0
			215	142	37	33	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	Z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			
19	z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			

- Molecule 20 is a protein called Photosystem II protein Y.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	R	34	Total	C	N	O	0	0	0
			273	186	47	40			

- Molecule 21 is FE (II) ION (three-letter code: FE2) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
21	A	1	Total	Fe	0	1
			2	2		
21	a	1	Total	Fe	0	1
			2	2		

- Molecule 22 is CHLORIDE ION (three-letter code: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

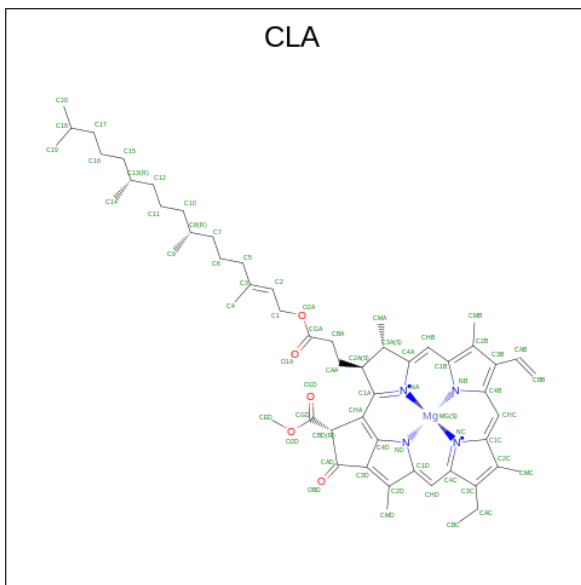
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
22	A	2	Total	Cl	0	2
			4	4		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
22	a	2	Total Cl 4 4	0	2

- Molecule 23 is CHLOROPHYLL A (three-letter code: CLA) (formula:  $C_{55}H_{72}MgN_4O_5$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
23	A	1	Total 130	C 110	Mg 2	N 8	O 10	0	1
23	A	1	Total 130	C 110	Mg 2	N 8	O 10	0	1
23	A	1	Total 130	C 110	Mg 2	N 8	O 10	0	1
23	A	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
23	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
23	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
23	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
23	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
23	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0
23	B	1	Total 65	C 55	Mg 1	N 4	O 5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Mg	N	O		
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	B	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0
23	C	1	65	55	1	4	5	0	0

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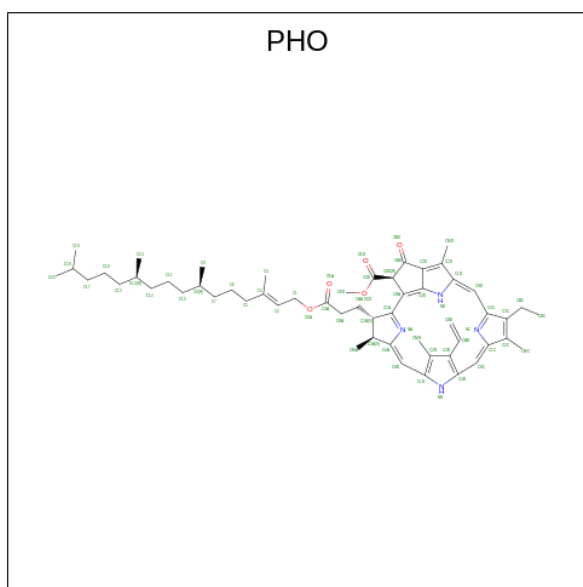
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	D	1	Total	C	Mg	N	O	0	1
			130	110	2	8	10		
23	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	a	1	Total	C	Mg	N	O	0	1
			130	110	2	8	10		
23	a	1	Total	C	Mg	N	O	0	1
			130	110	2	8	10		
23	a	1	Total	C	Mg	N	O	0	1
			130	110	2	8	10		
23	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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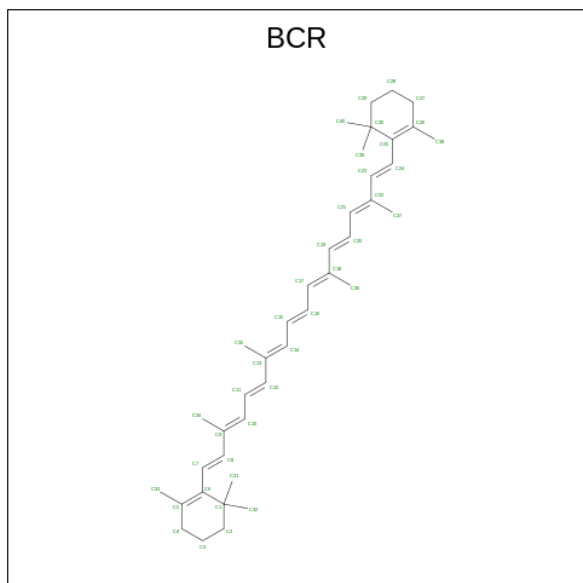
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	d	1	Total	C	Mg	N	O	0	1
			130	110	2	8	10		
23	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

- Molecule 24 is PHEOPHYTIN A (three-letter code: PHO) (formula:  $C_{55}H_{74}N_4O_5$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
24	A	1	Total	C	N	O	0	1
			128	110	8	10		
24	A	1	Total	C	N	O	0	1
			128	110	8	10		
24	a	1	Total	C	N	O	0	1
			128	110	8	10		
24	a	1	Total	C	N	O	0	1
			128	110	8	10		

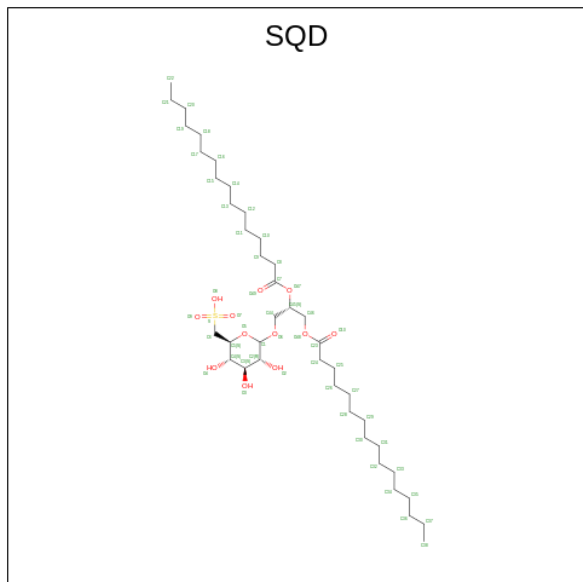
- Molecule 25 is BETA-CAROTENE (three-letter code: BCR) (formula:  $C_{40}H_{56}$ ).





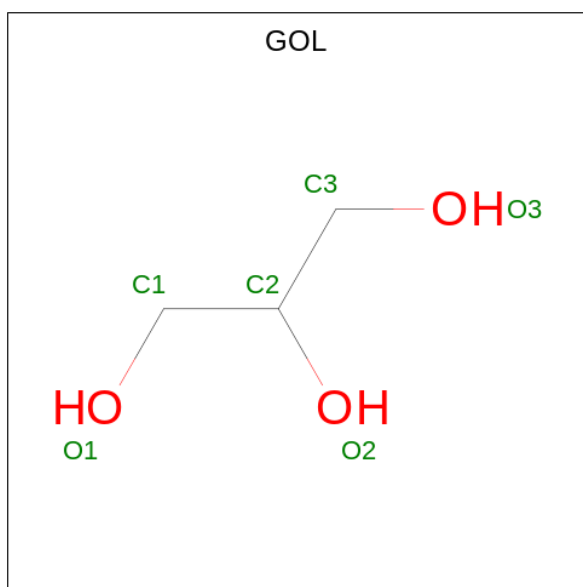
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
25	A	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	D	1	Total C 40 40	0	0
25	H	1	Total C 40 40	0	0
25	K	1	Total C 40 40	0	0
25	T	1	Total C 40 40	0	0
25	Y	1	Total C 40 40	0	0
25	a	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0
25	c	1	Total C 40 40	0	0
25	c	1	Total C 40 40	0	0
25	d	1	Total C 40 40	0	0
25	h	1	Total C 40 40	0	0
25	k	1	Total C 40 40	0	0
25	t	1	Total C 40 40	0	0
25	y	1	Total C 40 40	0	0

- Molecule 26 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula:  $C_{41}H_{78}O_{12}S$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	S		
26	A	1	Total 108	C 82	O 24	S 2	0	1
26	A	1	Total 54	C 41	O 12	S 1	0	0
26	B	1	Total 54	C 41	O 12	S 1	0	0
26	F	1	Total 43	C 30	O 12	S 1	0	0
26	a	1	Total 108	C 82	O 24	S 2	0	1
26	a	1	Total 54	C 41	O 12	S 1	0	0
26	b	1	Total 54	C 41	O 12	S 1	0	0
26	f	1	Total 43	C 30	O 12	S 1	0	0

- Molecule 27 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



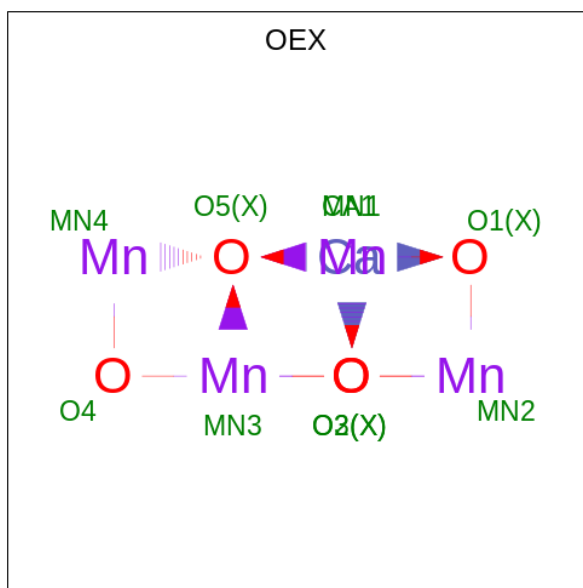
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
27	A	1	Total C O 6 3 3	0	0
27	A	1	Total C O 6 3 3	0	0
27	B	1	Total C O 6 3 3	0	0
27	B	1	Total C O 6 3 3	0	0
27	B	1	Total C O 6 3 3	0	0
27	C	1	Total C O 12 6 6	0	1
27	D	1	Total C O 6 3 3	0	0
27	O	1	Total C O 6 3 3	0	0
27	O	1	Total C O 6 3 3	0	0
27	V	1	Total C O 12 6 6	0	1
27	a	1	Total C O 6 3 3	0	0
27	a	1	Total C O 6 3 3	0	0
27	b	1	Total C O 6 3 3	0	0
27	b	1	Total C O 6 3 3	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
27	c	1	Total	C	O	0	1
			12	6	6		
27	c	1	Total	C	O	0	0
			6	3	3		
27	d	1	Total	C	O	0	0
			6	3	3		
27	l	1	Total	C	O	0	1
			12	6	6		
27	o	1	Total	C	O	0	0
			6	3	3		
27	o	1	Total	C	O	0	0
			6	3	3		
27	v	1	Total	C	O	0	1
			12	6	6		

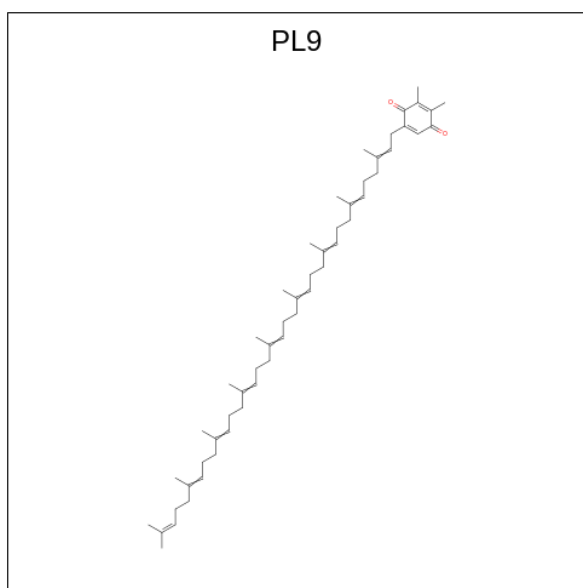
- Molecule 28 is CA-MN4-O5 CLUSTER (three-letter code: OEX) (formula:  $\text{CaMn}_4\text{O}_5$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
28	A	1	Total	Ca	Mn	O	0	1
			20	2	8	10		
28	a	1	Total	Ca	Mn	O	0	1
			20	2	8	10		

- Molecule 29 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<sub>53</sub>H<sub>80</sub>O<sub>2</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
29	A	1	Total	C	O	0	1
			110	106	4		
29	D	1	Total	C	O	0	1
			110	106	4		
29	a	1	Total	C	O	0	1
			110	106	4		
29	d	1	Total	C	O	0	1
			110	106	4		

- Molecule 30 is UNKNOWN LIGAND (three-letter code: UNL) (formula: ).

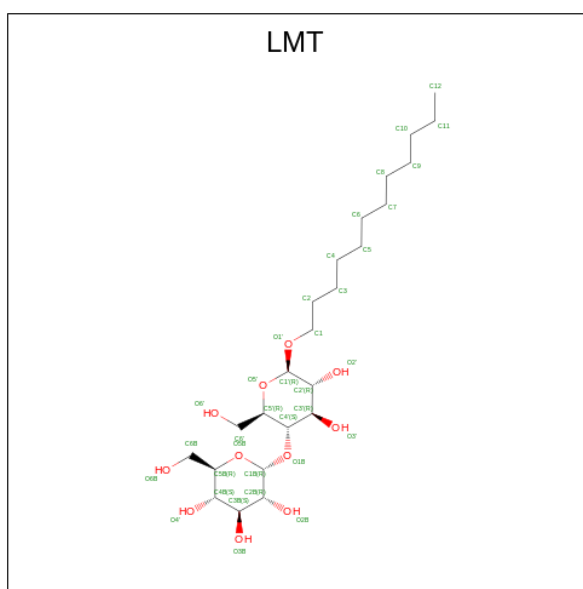
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	A	1	Total	C	O	0	0
			28	23	5		
30	B	2	Total	C	O	0	0
			73	63	10		
30	D	2	Total	C	O	0	0
			57	51	6		
30	I	1	Total	C	O	0	0
			40	35	5		
30	J	1	Total	C		0	0
			10	10			
30	K	1	Total	C	O	0	1
			68	58	10		
30	M	1	Total	C		0	0
			10	10			

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	X	1	Total	C	O	0	0
			18	16	2		
30	a	1	Total	C	O	0	0
			30	25	5		
30	b	1	Total	C	O	0	0
			33	28	5		
30	c	1	Total	C	O	0	1
			64	54	10		
30	d	2	Total	C	O	0	0
			53	47	6		
30	j	1	Total	C		0	0
			10	10			
30	m	1	Total	C		0	0
			10	10			
30	x	1	Total	C	O	0	0
			18	16	2		

- Molecule 31 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula:  $C_{24}H_{46}O_{11}$ ).



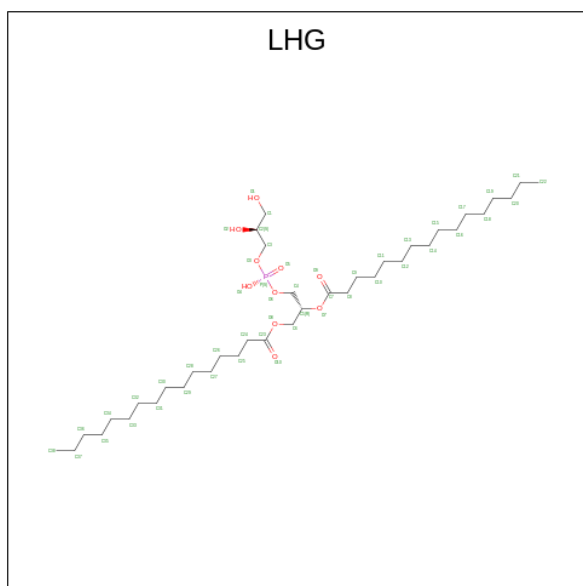
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
31	A	1	Total	C	O	0	0
			35	24	11		
31	A	1	Total	C	O	0	0
			35	24	11		
31	B	1	Total	C	O	0	0
			35	24	11		

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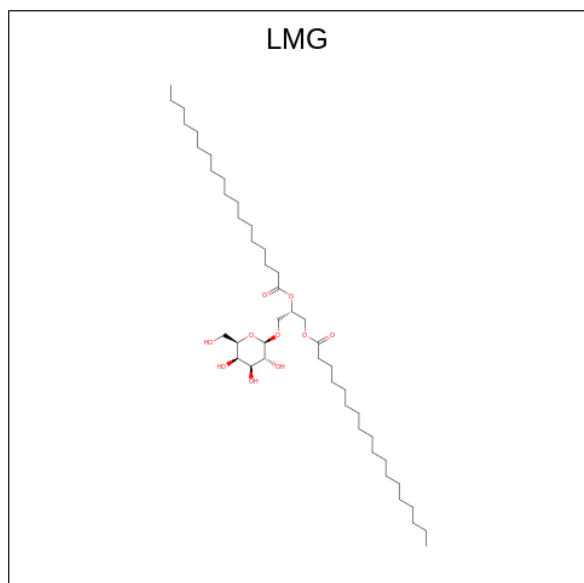
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
31	B	1	Total	C	O	0	0
			35	24	11		
31	B	1	Total	C	O	0	0
			25	19	6		
31	F	1	Total	C	O	0	0
			35	24	11		
31	M	1	Total	C	O	0	0
			35	24	11		
31	M	1	Total	C	O	0	0
			35	24	11		
31	a	1	Total	C	O	0	0
			35	24	11		
31	b	1	Total	C	O	0	0
			25	19	6		
31	b	1	Total	C	O	0	0
			25	19	6		
31	e	1	Total	C	O	0	0
			35	24	11		
31	m	1	Total	C	O	0	0
			35	24	11		
31	t	1	Total	C	O	0	0
			26	19	7		

- Molecule 32 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula:  $C_{38}H_{75}O_{10}P$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	P		
32	A	1	98	76	20	2	0	1
32	D	1	98	76	20	2	0	1
32	D	1	98	76	20	2	0	1
32	E	1	84	62	20	2	0	1
32	L	1	98	76	20	2	0	1
32	a	1	84	62	20	2	0	1
32	b	1	98	76	20	2	0	1
32	d	1	98	76	20	2	0	1
32	d	1	98	76	20	2	0	1
32	d	1	98	76	20	2	0	1

- Molecule 33 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C<sub>45</sub>H<sub>86</sub>O<sub>10</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
33	B	1	51	41	10	0	0

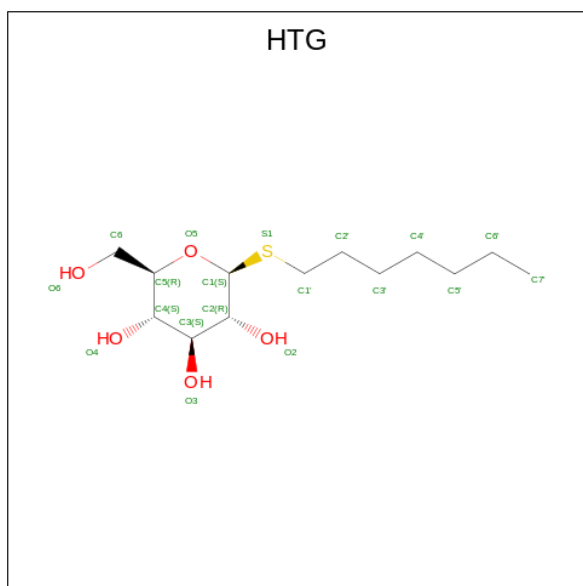
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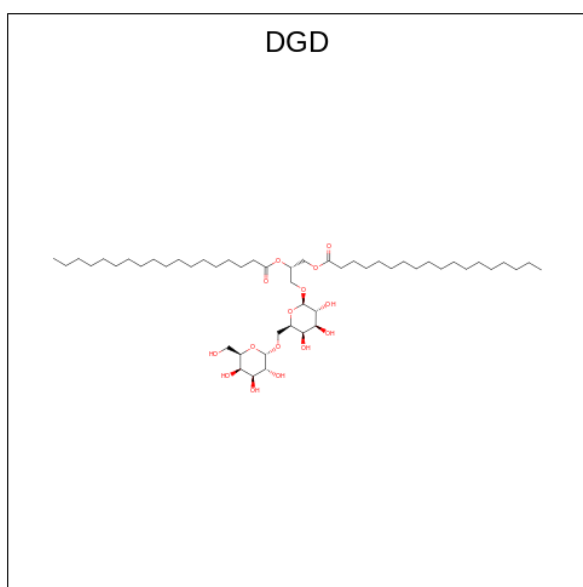
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
33	C	1	Total	C	O	0	0
			51	41	10		
33	C	1	Total	C	O	0	0
			51	41	10		
33	C	1	Total	C	O	0	0
			51	41	10		
33	D	1	Total	C	O	0	0
			51	41	10		
33	a	1	Total	C	O	0	0
			51	41	10		
33	c	1	Total	C	O	0	0
			51	41	10		
33	c	1	Total	C	O	0	0
			51	41	10		
33	d	1	Total	C	O	0	0
			51	41	10		
33	m	1	Total	C	O	0	0
			51	41	10		
33	Z	1	Total	C	O	0	0
			37	27	10		
33	z	1	Total	C	O	0	0
			39	29	10		

- Molecule 34 is heptyl 1-thio-beta-D-glucopyranoside (three-letter code: HTG) (formula:  $C_{13}H_{26}O_5S$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
34	B	1	Total	C	O	S	0	0
			19	13	5	1		
34	B	1	Total	C	O	S	0	0
			19	13	5	1		
34	C	1	Total	C	O	S	0	0
			19	13	5	1		
34	D	1	Total	C	O	S	0	0
			16	10	5	1		
34	V	1	Total	C	O		0	0
			11	6	5			
34	b	1	Total	C	O	S	0	0
			19	13	5	1		
34	b	1	Total	C	O	S	0	0
			19	13	5	1		
34	b	1	Total	C	O	S	0	0
			19	13	5	1		
34	c	1	Total	C	O	S	0	0
			19	13	5	1		
34	d	1	Total	C	O	S	0	0
			16	10	5	1		
34	o	1	Total	C	O	S	0	0
			19	13	5	1		

- Molecule 35 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula:  $C_{51}H_{96}O_{15}$ ).

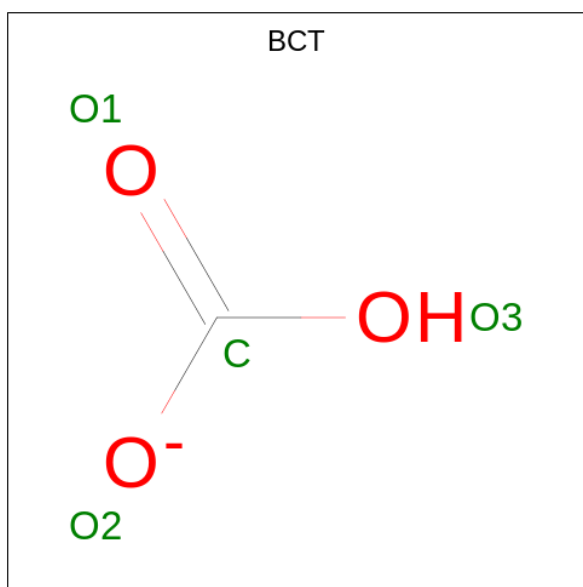


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
35	C	1	Total C O 124 94 30	0	1
35	C	1	Total C O 124 94 30	0	1
35	C	1	Total C O 62 47 15	0	0
35	H	1	Total C O 62 47 15	0	0
35	c	1	Total C O 124 94 30	0	1
35	c	1	Total C O 124 94 30	0	1
35	c	1	Total C O 62 47 15	0	0
35	h	1	Total C O 62 47 15	0	0

- Molecule 36 is CALCIUM ION (three-letter code: CA) (formula: Ca).

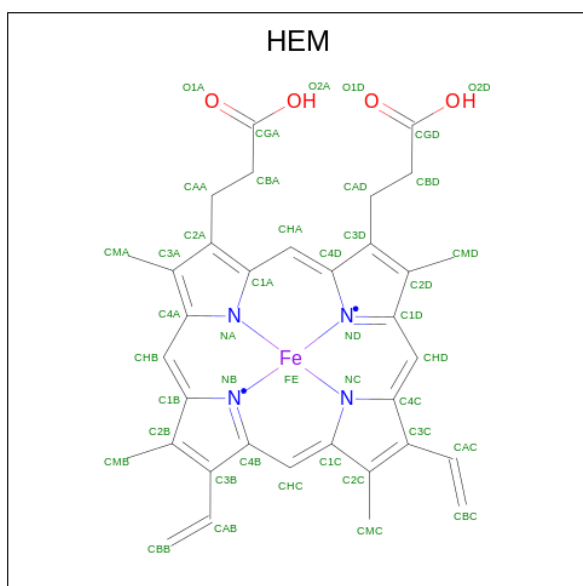
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
36	C	1	Total Ca 1 1	0	0
36	F	1	Total Ca 1 1	0	0
36	O	1	Total Ca 1 1	0	0
36	c	2	Total Ca 2 2	0	0
36	f	1	Total Ca 1 1	0	0
36	o	1	Total Ca 1 1	0	0

- Molecule 37 is BICARBONATE ION (three-letter code: BCT) (formula: CHO<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
37	D	1	Total	C	O	0	1
			8	2	6		
37	d	1	Total	C	O	0	1
			8	2	6		

- Molecule 38 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula:  $C_{34}H_{32}FeN_4O_4$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
38	F	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

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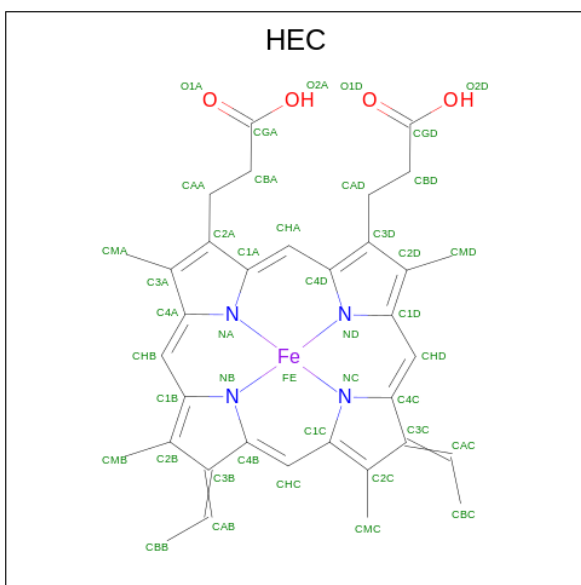
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
38	f	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 39 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
39	J	1	Total	Mg	0	0
			1	1		
39	j	1	Total	Mg	0	0
			1	1		

- Molecule 40 is HEME C (three-letter code: HEC) (formula: C<sub>34</sub>H<sub>34</sub>FeN<sub>4</sub>O<sub>4</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
40	V	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
40	v	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 41 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
41	A	139	Total	O	0	84
			221	221		
41	B	192	Total	O	0	3
			195	195		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
41	C	167	Total O 204 204	0	37
41	D	120	Total O 155 155	0	35
41	E	19	Total O 19 19	0	0
41	F	5	Total O 5 5	0	0
41	H	22	Total O 22 22	0	0
41	I	5	Total O 5 5	0	0
41	J	6	Total O 6 6	0	0
41	K	6	Total O 6 6	0	0
41	L	8	Total O 9 9	0	1
41	M	7	Total O 7 7	0	0
41	O	101	Total O 105 105	0	4
41	T	10	Total O 13 13	0	3
41	U	46	Total O 48 48	0	2
41	V	79	Total O 81 81	0	2
41	X	7	Total O 7 7	0	0
41	a	133	Total O 212 212	0	81
41	b	199	Total O 202 202	0	3
41	c	157	Total O 190 190	0	33
41	d	120	Total O 152 152	0	32
41	e	8	Total O 8 8	0	0
41	f	3	Total O 3 3	0	0

*Continued on next page...*

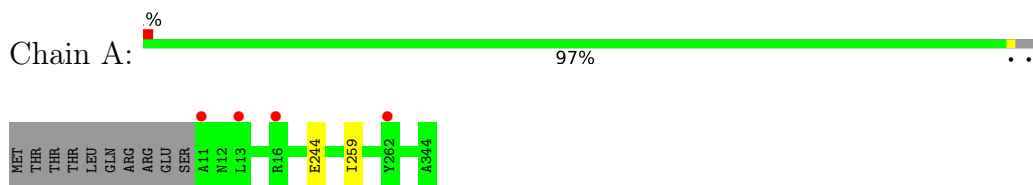
*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>	<b>ZeroOcc</b>	<b>AltConf</b>
41	h	17	Total O 17 17	0	0
41	i	2	Total O 2 2	0	0
41	j	2	Total O 2 2	0	0
41	k	3	Total O 3 3	0	0
41	l	9	Total O 10 10	0	1
41	m	11	Total O 11 11	0	0
41	o	100	Total O 105 105	0	5
41	t	7	Total O 10 10	0	3
41	u	51	Total O 52 52	0	1
41	v	55	Total O 58 58	0	3
41	x	7	Total O 7 7	0	0
41	y	2	Total O 2 2	0	0

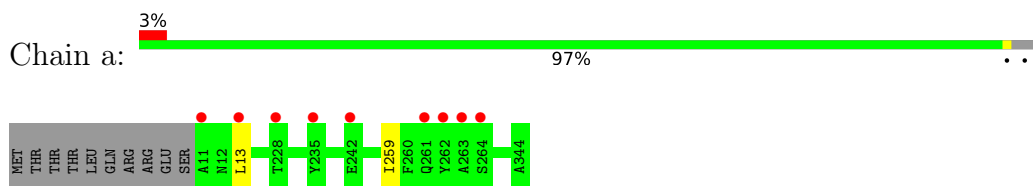
### 3 Residue-property plots [i](#)

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

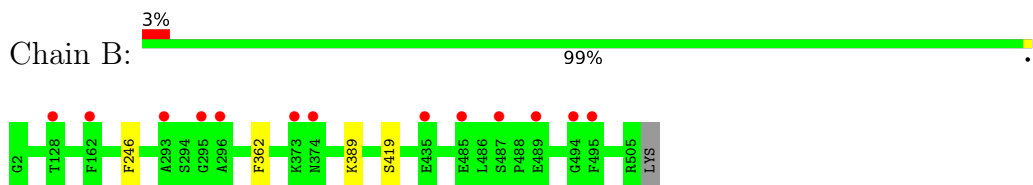
- Molecule 1: Photosystem II protein D1



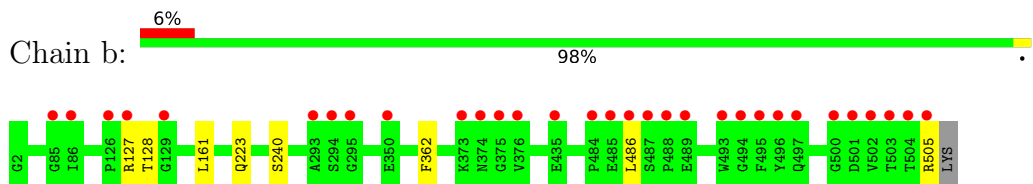
- Molecule 1: Photosystem II protein D1



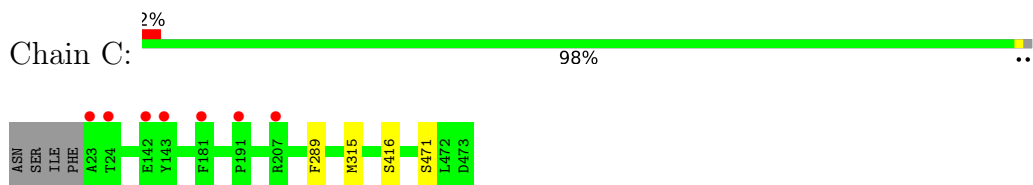
- Molecule 2: Photosystem II CP47 reaction center protein



- Molecule 2: Photosystem II CP47 reaction center protein

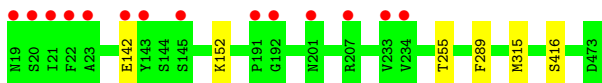


- Molecule 3: Photosystem II CP43 reaction center protein



- Molecule 3: Photosystem II CP43 reaction center protein

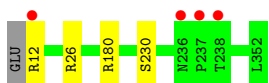




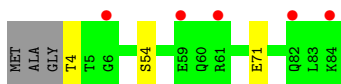
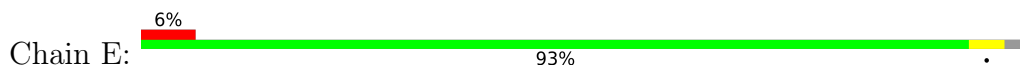
- Molecule 4: Photosystem II D2 protein



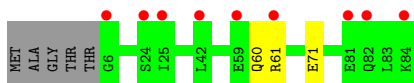
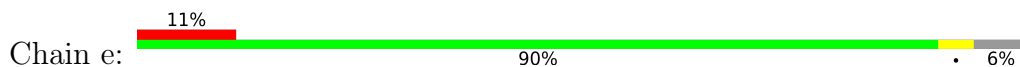
- Molecule 4: Photosystem II D2 protein



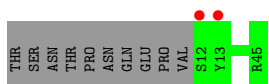
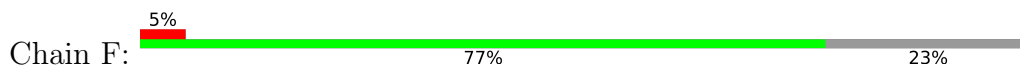
- Molecule 5: Cytochrome b559 subunit alpha



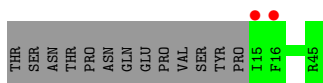
- Molecule 5: Cytochrome b559 subunit alpha



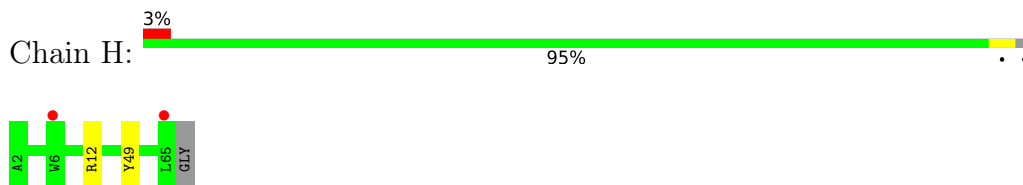
- Molecule 6: Cytochrome b559 subunit beta



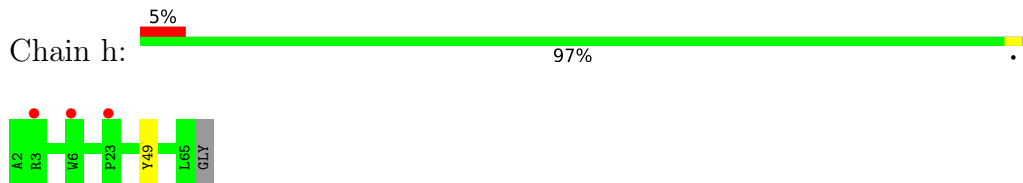
- Molecule 6: Cytochrome b559 subunit beta



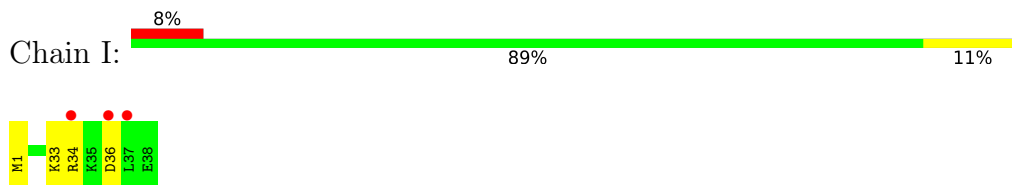
- Molecule 7: Photosystem II reaction center protein H



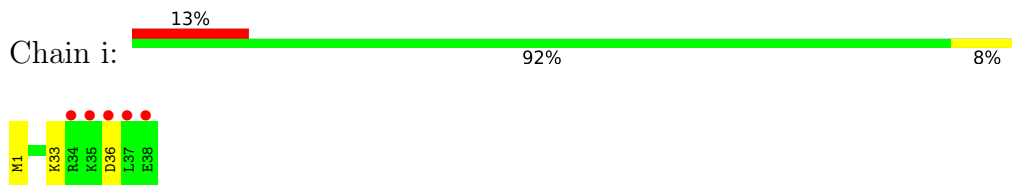
- Molecule 7: Photosystem II reaction center protein H



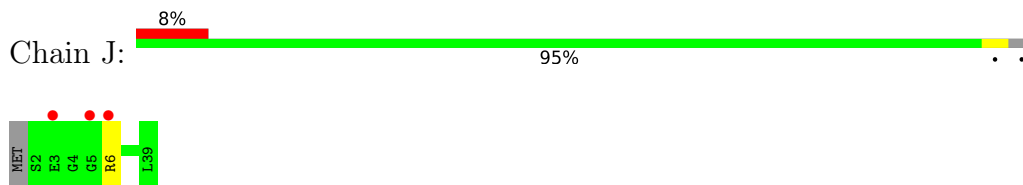
- Molecule 8: Photosystem II reaction center protein I



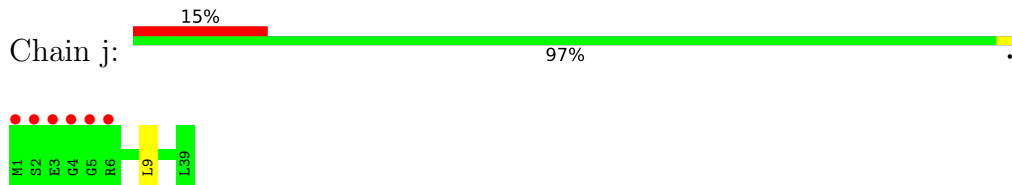
- Molecule 8: Photosystem II reaction center protein I



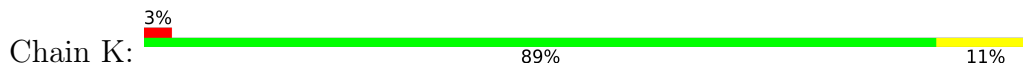
- Molecule 9: Photosystem II reaction center protein J



- Molecule 9: Photosystem II reaction center protein J



- Molecule 10: Photosystem II reaction center protein K

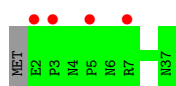




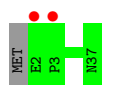
- Molecule 10: Photosystem II reaction center protein K



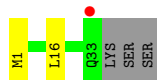
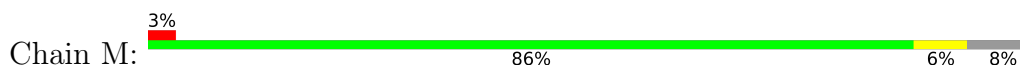
- Molecule 11: Photosystem II reaction center protein L



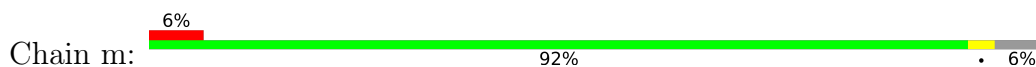
- Molecule 11: Photosystem II reaction center protein L



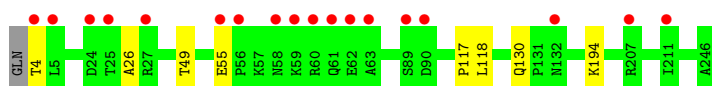
- Molecule 12: Photosystem II reaction center protein M



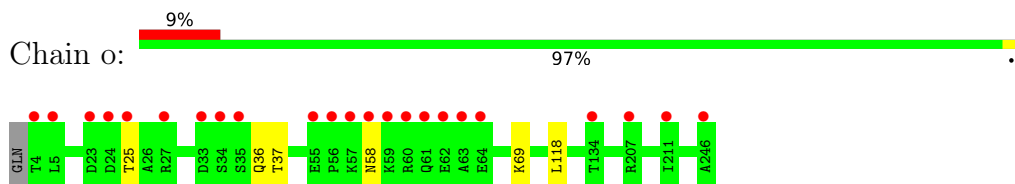
- Molecule 12: Photosystem II reaction center protein M



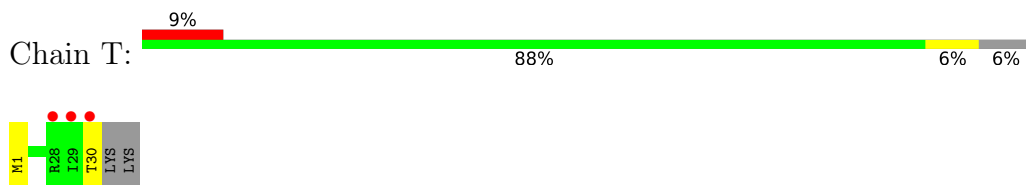
- Molecule 13: Photosystem II manganese-stabilizing polypeptide



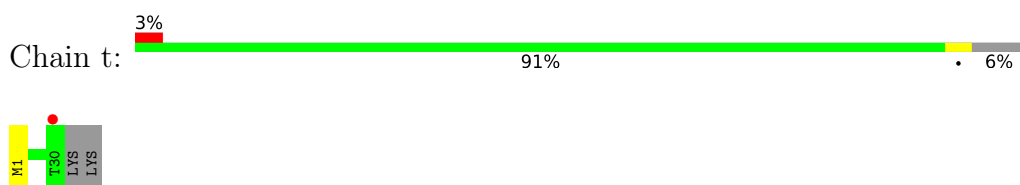
- Molecule 13: Photosystem II manganese-stabilizing polypeptide



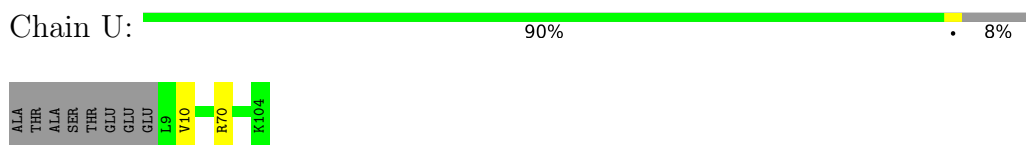
- Molecule 14: Photosystem II reaction center protein T



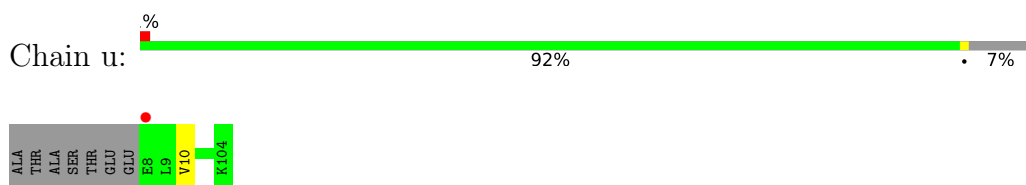
- Molecule 14: Photosystem II reaction center protein T



- Molecule 15: Photosystem II 12 kDa extrinsic protein



- Molecule 15: Photosystem II 12 kDa extrinsic protein

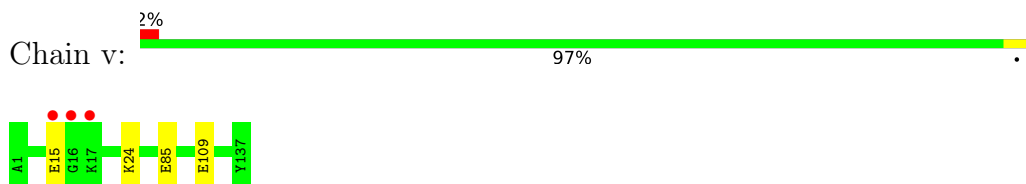


- Molecule 16: Cytochrome c-550

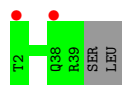
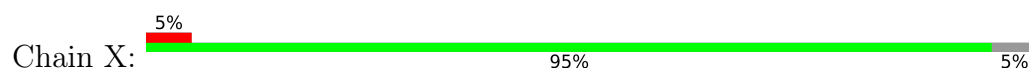


There are no outlier residues recorded for this chain.

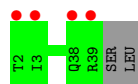
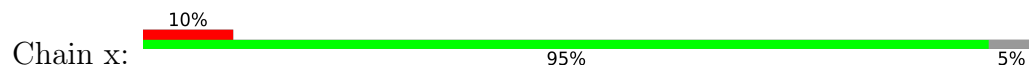
- Molecule 16: Cytochrome c-550



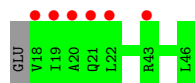
- Molecule 17: Photosystem II reaction center protein X



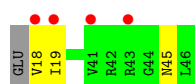
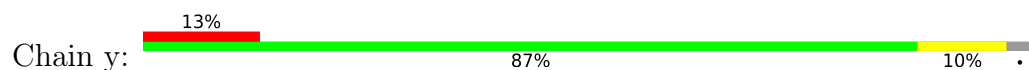
- Molecule 17: Photosystem II reaction center protein X



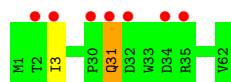
- Molecule 18: Photosystem II reaction center protein Ycf12



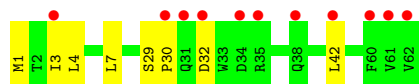
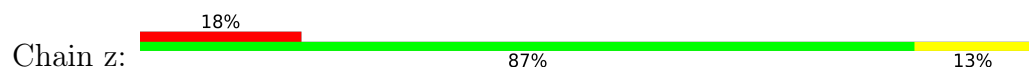
- Molecule 18: Photosystem II reaction center protein Ycf12



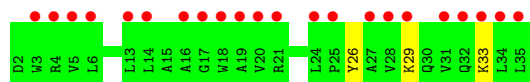
- Molecule 19: Photosystem II reaction center protein Z



- Molecule 19: Photosystem II reaction center protein Z



- Molecule 20: Photosystem II protein Y



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	125.77Å 231.76Å 288.58Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.99 – 2.25 19.99 – 2.25	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.99-2.25) 100.0 (19.99-2.25)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.59 (at 2.26Å)	Xtrriage
Refinement program	PHENIX (1.19.2_4158: ???)	Depositor
R, $R_{free}$	0.140 , 0.177 0.140 , 0.177	Depositor DCC
$R_{free}$ test set	19877 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	50.8	Xtrriage
Anisotropy	0.498	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 86.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	62602	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	64.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.70% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, UNL, DGD, FE2, HTG, LMG, SQD, MG, BCR, PHO, HEC, LMT, BCT, PL9, FME, LHG, CL, GOL, HEM, CLA, OEX

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	0.44	0/4478	0.58	0/6098
1	a	0.42	0/4470	0.56	0/6087
2	B	0.47	0/4293	0.60	0/5851
2	b	0.43	0/4285	0.59	0/5841
3	C	0.42	0/4404	0.56	0/5997
3	c	0.41	0/4459	0.55	0/6071
4	D	0.48	0/3741	0.61	0/5095
4	d	0.46	0/3749	0.58	0/5106
5	E	0.42	0/681	0.59	0/928
5	e	0.40	0/690	0.55	0/939
6	F	0.41	0/284	0.56	0/387
6	f	0.39	0/269	0.53	0/365
7	H	0.43	0/519	0.62	0/708
7	h	0.38	0/530	0.60	0/722
8	I	0.40	0/311	0.55	0/419
8	i	0.44	0/311	0.55	0/419
9	J	0.40	0/278	0.52	0/376
9	j	0.39	0/283	0.57	0/383
10	K	0.42	0/303	0.53	0/416
10	k	0.40	0/303	0.53	0/416
11	L	0.41	0/318	0.57	0/433
11	l	0.47	0/318	0.54	0/433
12	M	0.51	0/261	0.54	0/357
12	m	0.43	0/279	0.54	0/380
13	O	0.44	0/1991	0.65	0/2698
13	o	0.42	0/1966	0.66	0/2665
14	T	0.46	0/310	0.63	0/419
14	t	0.44	0/301	0.60	0/406
15	U	0.46	0/811	0.63	0/1095
15	u	0.45	0/818	0.65	0/1105
16	V	0.42	0/1142	0.58	0/1545

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
16	v	0.36	0/1139	0.57	0/1542
17	X	0.34	0/292	0.50	0/395
17	x	0.34	0/284	0.49	0/384
18	Y	0.32	0/216	0.53	0/289
18	y	0.31	0/216	0.51	0/289
19	Z	0.35	0/490	0.47	0/669
19	z	0.34	0/490	0.44	0/669
20	R	0.33	0/279	0.52	0/383
All	All	0.43	0/50562	0.58	0/68780

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts [i](#)

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

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	553/344 (161%)	544 (98%)	7 (1%)	2 (0%)	34	37
1	a	552/344 (160%)	545 (99%)	5 (1%)	2 (0%)	34	37
2	B	522/505 (103%)	514 (98%)	8 (2%)	0	100	100
2	b	521/505 (103%)	508 (98%)	13 (2%)	0	100	100
3	C	546/455 (120%)	539 (99%)	6 (1%)	1 (0%)	47	55
3	c	553/455 (122%)	542 (98%)	10 (2%)	1 (0%)	47	55

*Continued on next page...*



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	D	453/342 (132%)	438 (97%)	15 (3%)	0	100	100
4	d	454/342 (133%)	442 (97%)	12 (3%)	0	100	100
5	E	79/84 (94%)	78 (99%)	1 (1%)	0	100	100
5	e	79/84 (94%)	79 (100%)	0	0	100	100
6	F	32/44 (73%)	32 (100%)	0	0	100	100
6	f	30/44 (68%)	30 (100%)	0	0	100	100
7	H	62/65 (95%)	60 (97%)	2 (3%)	0	100	100
7	h	63/65 (97%)	59 (94%)	4 (6%)	0	100	100
8	I	36/38 (95%)	34 (94%)	1 (3%)	1 (3%)	5	2
8	i	36/38 (95%)	32 (89%)	4 (11%)	0	100	100
9	J	36/39 (92%)	36 (100%)	0	0	100	100
9	j	37/39 (95%)	36 (97%)	1 (3%)	0	100	100
10	K	35/37 (95%)	35 (100%)	0	0	100	100
10	k	35/37 (95%)	34 (97%)	1 (3%)	0	100	100
11	L	36/37 (97%)	36 (100%)	0	0	100	100
11	l	36/37 (97%)	36 (100%)	0	0	100	100
12	M	32/36 (89%)	32 (100%)	0	0	100	100
12	m	34/36 (94%)	33 (97%)	1 (3%)	0	100	100
13	O	251/244 (103%)	242 (96%)	8 (3%)	1 (0%)	34	37
13	o	249/244 (102%)	244 (98%)	5 (2%)	0	100	100
14	T	33/32 (103%)	33 (100%)	0	0	100	100
14	t	32/32 (100%)	32 (100%)	0	0	100	100
15	U	97/104 (93%)	92 (95%)	5 (5%)	0	100	100
15	u	98/104 (94%)	94 (96%)	4 (4%)	0	100	100
16	V	140/137 (102%)	134 (96%)	6 (4%)	0	100	100
16	v	140/137 (102%)	135 (96%)	5 (4%)	0	100	100
17	X	37/40 (92%)	36 (97%)	1 (3%)	0	100	100
17	x	36/40 (90%)	36 (100%)	0	0	100	100
18	Y	27/30 (90%)	24 (89%)	3 (11%)	0	100	100
18	y	27/30 (90%)	27 (100%)	0	0	100	100
19	Z	60/62 (97%)	58 (97%)	1 (2%)	1 (2%)	9	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	z	60/62 (97%)	59 (98%)	0	1 (2%)	9	4
20	R	32/34 (94%)	31 (97%)	1 (3%)	0	100	100
All	All	6171/5384 (115%)	6031 (98%)	130 (2%)	10 (0%)	47	55

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
8	I	36	ASP
19	Z	31	GLN
3	C	416	SER
13	O	26	ALA
3	c	416	SER
19	z	30	PRO
1	A	259[A]	ILE
1	A	259[B]	ILE
1	a	259[A]	ILE
1	a	259[B]	ILE

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	444/279 (159%)	442 (100%)	2 (0%)	88	92
1	a	443/279 (159%)	442 (100%)	1 (0%)	93	96
2	B	421/403 (104%)	417 (99%)	4 (1%)	76	84
2	b	420/403 (104%)	411 (98%)	9 (2%)	53	62
3	C	430/356 (121%)	426 (99%)	4 (1%)	78	86
3	c	436/356 (122%)	430 (99%)	6 (1%)	67	76
4	D	368/277 (133%)	366 (100%)	2 (0%)	88	92
4	d	369/277 (133%)	364 (99%)	5 (1%)	67	76
5	E	72/73 (99%)	69 (96%)	3 (4%)	30	34
5	e	72/73 (99%)	69 (96%)	3 (4%)	30	34

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	F	28/38 (74%)	28 (100%)	0	100	100
6	f	26/38 (68%)	26 (100%)	0	100	100
7	H	54/54 (100%)	52 (96%)	2 (4%)	34	40
7	h	55/54 (102%)	54 (98%)	1 (2%)	59	68
8	I	34/34 (100%)	32 (94%)	2 (6%)	19	19
8	i	34/34 (100%)	32 (94%)	2 (6%)	19	19
9	J	26/27 (96%)	25 (96%)	1 (4%)	33	39
9	j	26/27 (96%)	25 (96%)	1 (4%)	33	39
10	K	30/30 (100%)	26 (87%)	4 (13%)	4	2
10	k	30/30 (100%)	27 (90%)	3 (10%)	7	5
11	L	36/35 (103%)	36 (100%)	0	100	100
11	l	36/35 (103%)	36 (100%)	0	100	100
12	M	30/32 (94%)	28 (93%)	2 (7%)	16	15
12	m	32/32 (100%)	30 (94%)	2 (6%)	18	17
13	O	216/207 (104%)	209 (97%)	7 (3%)	39	47
13	o	213/207 (103%)	207 (97%)	6 (3%)	43	52
14	T	32/28 (114%)	30 (94%)	2 (6%)	18	17
14	t	31/28 (111%)	31 (100%)	0	100	100
15	U	86/89 (97%)	84 (98%)	2 (2%)	50	59
15	u	87/89 (98%)	85 (98%)	2 (2%)	50	59
16	V	123/117 (105%)	123 (100%)	0	100	100
16	v	123/117 (105%)	119 (97%)	4 (3%)	38	46
17	X	32/33 (97%)	32 (100%)	0	100	100
17	x	31/33 (94%)	31 (100%)	0	100	100
18	Y	22/23 (96%)	22 (100%)	0	100	100
18	y	22/23 (96%)	19 (86%)	3 (14%)	3	2
19	Z	52/52 (100%)	50 (96%)	2 (4%)	33	39
19	z	52/52 (100%)	45 (86%)	7 (14%)	4	2
20	R	29/29 (100%)	26 (90%)	3 (10%)	7	5
All	All	5103/4403 (116%)	5006 (98%)	97 (2%)	55	66

All (97) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	244[A]	GLU
1	A	244[B]	GLU
2	B	246	PHE
2	B	362	PHE
2	B	389	LYS
2	B	419	SER
3	C	289	PHE
3	C	315[A]	MET
3	C	315[B]	MET
3	C	471	SER
4	D	180	ARG
4	D	338	ASN
5	E	4	THR
5	E	54	SER
5	E	71	GLU
7	H	12	ARG
7	H	49	TYR
8	I	33	LYS
8	I	34	ARG
9	J	6	ARG
10	K	10	LYS
10	K	17	ILE
10	K	19	ASP
10	K	27	VAL
12	M	16[A]	LEU
12	M	16[B]	LEU
13	O	4	THR
13	O	49	THR
13	O	55	GLU
13	O	117	PRO
13	O	118	LEU
13	O	130	GLN
13	O	194	LYS
14	T	30[A]	THR
14	T	30[B]	THR
15	U	10	VAL
15	U	70	ARG
1	a	13	LEU
2	b	127	ARG
2	b	128	THR
2	b	161	LEU
2	b	223	GLN
2	b	240	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	b	362	PHE
2	b	486[A]	LEU
2	b	486[B]	LEU
2	b	505	ARG
3	c	142	GLU
3	c	152	LYS
3	c	255	THR
3	c	289	PHE
3	c	315[A]	MET
3	c	315[B]	MET
4	d	12	ARG
4	d	26	ARG
4	d	180	ARG
4	d	230[A]	SER
4	d	230[B]	SER
5	e	60	GLN
5	e	61	ARG
5	e	71	GLU
7	h	49	TYR
8	i	33	LYS
8	i	36	ASP
9	j	9	LEU
10	k	10	LYS
10	k	17	ILE
10	k	24	VAL
12	m	16[A]	LEU
12	m	16[B]	LEU
13	o	25	THR
13	o	36	GLN
13	o	37	THR
13	o	58	ASN
13	o	69	LYS
13	o	118	LEU
15	u	10[A]	VAL
15	u	10[B]	VAL
16	v	15	GLU
16	v	24	LYS
16	v	85	GLU
16	v	109	GLU
18	y	18	VAL
18	y	19	ILE
18	y	45	ASN

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Mol	Chain	Res	Type
19	Z	3	ILE
19	Z	31	GLN
20	R	26	TYR
20	R	29	LYS
20	R	33	LYS
19	z	1	MET
19	z	3	ILE
19	z	4	LEU
19	z	7	LEU
19	z	29	SER
19	z	32	ASP
19	z	42	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
5	E	60	GLN
13	o	58	ASN
16	v	86	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

6 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
12	FME	M	1	12	8,9,10	0.56	0	7,9,11	1.49	2 (28%)
14	FME	T	1	14	8,9,10	0.60	0	7,9,11	1.59	1 (14%)
12	FME	m	1	12	8,9,10	0.51	0	7,9,11	1.25	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
8	FME	I	1	8	8,9,10	0.62	0	7,9,11	1.18	1 (14%)
14	FME	t	1	14	8,9,10	0.72	0	7,9,11	1.59	2 (28%)
8	FME	i	1	8	8,9,10	0.65	0	7,9,11	1.37	1 (14%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	FME	M	1	12	-	1/7/9/11	-
14	FME	T	1	14	-	2/7/9/11	-
12	FME	m	1	12	-	1/7/9/11	-
8	FME	I	1	8	-	1/7/9/11	-
14	FME	t	1	14	-	1/7/9/11	-
8	FME	i	1	8	-	1/7/9/11	-

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	t	1	FME	O-C-CA	-2.98	116.97	124.78
14	T	1	FME	CG-CB-CA	2.91	121.04	112.95
12	M	1	FME	O-C-CA	-2.47	118.31	124.78
8	I	1	FME	O-C-CA	-2.41	118.47	124.78
8	i	1	FME	CA-N-CN	-2.13	119.55	122.82
14	t	1	FME	CA-N-CN	-2.08	119.62	122.82
12	M	1	FME	CA-N-CN	-2.07	119.64	122.82

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
14	T	1	FME	C-CA-CB-CG
14	t	1	FME	O1-CN-N-CA
14	T	1	FME	N-CA-CB-CG
12	m	1	FME	O1-CN-N-CA
12	M	1	FME	O1-CN-N-CA
8	i	1	FME	C-CA-CB-CG
8	I	1	FME	CA-CB-CG-SD

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 274 ligands modelled in this entry, 21 are monoatomic and 20 are unknown - leaving 233 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
32	LHG	D	407[B]	-	48,48,48	0.91	2 (4%)	51,54,54	1.02	3 (5%)
23	CLA	B	609	-	65,73,73	2.04	15 (23%)	76,113,113	2.78	26 (34%)
23	CLA	C	510	-	65,73,73	2.06	17 (26%)	76,113,113	2.78	27 (35%)
23	CLA	B	611	-	65,73,73	2.69	19 (29%)	76,113,113	3.16	28 (36%)
25	BCR	H	101	-	41,41,41	1.02	1 (2%)	56,56,56	1.50	8 (14%)
35	DGD	C	517[B]	-	63,63,67	0.85	2 (3%)	77,77,81	1.07	5 (6%)
23	CLA	C	507	-	65,73,73	2.04	18 (27%)	76,113,113	2.79	29 (38%)
31	LMT	m	103	-	36,36,36	1.07	4 (11%)	47,47,47	1.13	4 (8%)
23	CLA	D	402[A]	-	65,73,73	2.04	16 (24%)	76,113,113	2.87	31 (40%)
23	CLA	c	501	-	65,73,73	2.05	17 (26%)	76,113,113	2.76	25 (32%)
33	LMG	z	101	-	39,39,55	1.09	2 (5%)	47,47,63	1.08	4 (8%)
25	BCR	b	619	-	41,41,41	1.08	1 (2%)	56,56,56	1.42	8 (14%)
23	CLA	c	510	-	65,73,73	2.02	15 (23%)	76,113,113	2.84	30 (39%)
23	CLA	A	408	-	65,73,73	1.98	13 (20%)	76,113,113	2.85	32 (42%)
24	PHO	A	416[A]	-	51,69,69	1.92	8 (15%)	47,99,99	1.85	9 (19%)
23	CLA	B	614	-	65,73,73	2.04	18 (27%)	76,113,113	2.95	29 (38%)
32	LHG	d	407[A]	-	48,48,48	0.92	2 (4%)	51,54,54	1.01	3 (5%)
32	LHG	E	101[A]	-	41,41,48	1.08	2 (4%)	44,47,54	1.10	3 (6%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	BCR	y	101	-	41,41,41	1.04	1 (2%)	56,56,56	1.60	10 (17%)
27	GOL	A	418	-	5,5,5	1.66	2 (40%)	5,5,5	0.84	0
23	CLA	A	405[B]	41	65,73,73	2.01	17 (26%)	76,113,113	2.74	30 (39%)
23	CLA	C	513	-	65,73,73	2.05	15 (23%)	76,113,113	2.80	31 (40%)
23	CLA	B	603	-	65,73,73	2.03	16 (24%)	76,113,113	2.91	29 (38%)
27	GOL	v	202[A]	-	5,5,5	1.20	0	5,5,5	0.82	0
27	GOL	o	303	-	5,5,5	1.23	0	5,5,5	0.80	0
28	OEX	a	412[B]	41,1,3	0,15,15	-	-	-	-	-
26	SQD	a	410[B]	-	53,54,54	0.97	3 (5%)	62,65,65	1.58	10 (16%)
23	CLA	b	610	41	65,73,73	2.02	16 (24%)	76,113,113	2.86	30 (39%)
26	SQD	F	103	-	42,43,54	1.22	4 (9%)	51,54,65	2.22	15 (29%)
31	LMT	b	621	-	25,25,36	0.98	1 (4%)	30,30,47	1.25	3 (10%)
38	HEM	F	102	5,6	41,50,50	1.30	5 (12%)	45,82,82	2.11	15 (33%)
27	GOL	B	628	-	5,5,5	0.94	0	5,5,5	0.93	0
23	CLA	b	615	-	65,73,73	2.01	16 (24%)	76,113,113	2.74	29 (38%)
23	CLA	B	604	-	65,73,73	2.01	18 (27%)	76,113,113	2.63	28 (36%)
23	CLA	c	507	41	65,73,73	2.04	17 (26%)	76,113,113	2.80	29 (38%)
23	CLA	B	615	-	65,73,73	2.01	15 (23%)	76,113,113	2.88	29 (38%)
27	GOL	C	523[A]	-	5,5,5	1.11	0	5,5,5	0.88	0
23	CLA	d	402[B]	-	65,73,73	2.01	17 (26%)	76,113,113	2.74	25 (32%)
27	GOL	O	303	-	5,5,5	0.87	0	5,5,5	1.10	0
23	CLA	c	509	-	65,73,73	2.05	17 (26%)	76,113,113	2.74	28 (36%)
34	HTG	V	202	-	11,11,19	0.36	0	15,15,24	1.24	1 (6%)
35	DGD	C	518[A]	-	63,63,67	0.90	3 (4%)	77,77,81	1.03	5 (6%)
23	CLA	b	609	-	65,73,73	2.05	16 (24%)	76,113,113	2.79	27 (35%)
23	CLA	A	406[A]	41	65,73,73	1.98	17 (26%)	76,113,113	2.76	30 (39%)
32	LHG	a	420[A]	-	41,41,48	1.06	2 (4%)	44,47,54	0.92	2 (4%)
25	BCR	d	404	-	41,41,41	1.16	2 (4%)	56,56,56	1.93	18 (32%)
23	CLA	B	612	-	65,73,73	2.02	19 (29%)	76,113,113	2.77	30 (39%)
23	CLA	D	403	-	65,73,73	2.10	15 (23%)	76,113,113	2.81	28 (36%)
31	LMT	F	101	-	36,36,36	1.05	1 (2%)	47,47,47	1.08	4 (8%)
29	PL9	d	405[A]	-	55,55,55	0.70	1 (1%)	68,69,69	1.63	18 (26%)
31	LMT	B	629	-	36,36,36	1.04	2 (5%)	47,47,47	1.15	3 (6%)
23	CLA	c	502	-	65,73,73	2.02	14 (21%)	76,113,113	2.69	26 (34%)
32	LHG	E	101[B]	-	41,41,48	1.06	2 (4%)	44,47,54	1.10	3 (6%)
23	CLA	a	405[A]	41	65,73,73	2.02	15 (23%)	76,113,113	2.80	29 (38%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
38	HEM	f	101	5,6	41,50,50	1.28	4 (9%)	45,82,82	1.89	11 (24%)
31	LMT	M	103	-	36,36,36	1.08	4 (11%)	47,47,47	1.07	2 (4%)
23	CLA	C	512	3	65,73,73	2.04	17 (26%)	76,113,113	2.59	26 (34%)
27	GOL	B	623	-	5,5,5	0.88	0	5,5,5	1.22	1 (20%)
23	CLA	b	616	-	65,73,73	2.00	15 (23%)	76,113,113	2.84	26 (34%)
23	CLA	c	513	-	65,73,73	2.12	17 (26%)	76,113,113	2.76	27 (35%)
34	HTG	b	623	-	19,19,19	1.07	1 (5%)	23,24,24	1.93	3 (13%)
34	HTG	b	625	-	19,19,19	1.00	2 (10%)	23,24,24	1.45	4 (17%)
23	CLA	C	504	-	65,73,73	1.98	16 (24%)	76,113,113	2.76	24 (31%)
25	BCR	B	617	-	41,41,41	1.08	1 (2%)	56,56,56	1.35	7 (12%)
23	CLA	a	406[B]	41	65,73,73	2.01	16 (24%)	76,113,113	2.82	29 (38%)
32	LHG	d	413[B]	-	48,48,48	0.92	2 (4%)	51,54,54	1.03	5 (9%)
24	PHO	a	415[A]	-	51,69,69	1.88	8 (15%)	47,99,99	1.99	12 (25%)
29	PL9	a	413[B]	-	55,55,55	0.64	2 (3%)	68,69,69	1.94	22 (32%)
31	LMT	A	417	-	36,36,36	0.92	1 (2%)	47,47,47	1.06	1 (2%)
33	LMG	c	519	-	51,51,55	0.90	2 (3%)	59,59,63	1.15	5 (8%)
31	LMT	A	420	-	36,36,36	1.03	2 (5%)	47,47,47	1.16	4 (8%)
37	BCT	D	401[B]	21	2,3,3	0.66	0	2,3,3	1.06	0
25	BCR	Y	101	-	41,41,41	1.01	1 (2%)	56,56,56	1.74	15 (26%)
23	CLA	B	605	-	65,73,73	1.95	15 (23%)	76,113,113	3.09	31 (40%)
27	GOL	d	412	-	5,5,5	1.09	1 (20%)	5,5,5	1.05	0
25	BCR	t	102	-	41,41,41	1.04	1 (2%)	56,56,56	1.53	10 (17%)
29	PL9	D	405[A]	-	55,55,55	0.63	1 (1%)	68,69,69	1.61	17 (25%)
23	CLA	C	511	-	65,73,73	2.04	16 (24%)	76,113,113	2.92	30 (39%)
23	CLA	a	404[B]	-	65,73,73	2.07	16 (24%)	76,113,113	2.87	30 (39%)
23	CLA	C	509	-	65,73,73	2.16	16 (24%)	76,113,113	2.70	29 (38%)
25	BCR	C	516	-	41,41,41	1.05	1 (2%)	56,56,56	1.28	7 (12%)
26	SQD	a	411	-	53,54,54	1.06	3 (5%)	62,65,65	1.19	9 (14%)
34	HTG	C	522	-	19,19,19	0.86	1 (5%)	23,24,24	1.39	2 (8%)
23	CLA	C	502	-	65,73,73	1.95	16 (24%)	76,113,113	2.84	29 (38%)
27	GOL	l	801[A]	-	5,5,5	0.93	0	5,5,5	0.98	0
32	LHG	d	406[B]	-	48,48,48	0.87	2 (4%)	51,54,54	1.09	4 (7%)
33	LMG	C	521	-	51,51,55	1.09	3 (5%)	59,59,63	1.35	6 (10%)
23	CLA	c	506	-	65,73,73	2.04	16 (24%)	76,113,113	2.79	28 (36%)
32	LHG	A	419[B]	-	48,48,48	0.89	2 (4%)	51,54,54	1.17	5 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
27	GOL	b	628	-	5,5,5	0.40	0	5,5,5	1.36	1 (20%)
24	PHO	a	407[A]	-	51,69,69	1.83	8 (15%)	47,99,99	1.87	9 (19%)
27	GOL	V	203[A]	-	5,5,5	1.34	0	5,5,5	0.80	0
28	OEX	A	413[A]	41,1,3	0,15,15	-	-	-	-	-
23	CLA	a	405[B]	41	65,73,73	2.06	15 (23%)	76,113,113	2.74	28 (36%)
23	CLA	B	610	41	65,73,73	2.07	17 (26%)	76,113,113	2.82	28 (36%)
25	BCR	A	409	-	41,41,41	1.03	1 (2%)	56,56,56	1.40	7 (12%)
23	CLA	a	408	-	65,73,73	1.95	15 (23%)	76,113,113	2.90	28 (36%)
23	CLA	c	508	-	65,73,73	2.16	16 (24%)	76,113,113	2.76	27 (35%)
23	CLA	c	512	-	65,73,73	2.05	15 (23%)	76,113,113	2.75	28 (36%)
33	LMG	C	520	-	51,51,55	0.95	2 (3%)	59,59,63	1.07	3 (5%)
34	HTG	B	624	-	19,19,19	1.16	2 (10%)	23,24,24	1.09	1 (4%)
23	CLA	D	402[B]	-	65,73,73	2.06	16 (24%)	76,113,113	2.83	28 (36%)
26	SQD	A	410[A]	-	53,54,54	0.93	3 (5%)	62,65,65	1.88	10 (16%)
33	LMG	Z	101	-	37,37,55	1.03	2 (5%)	45,45,63	1.46	6 (13%)
23	CLA	b	601	41	65,73,73	2.13	15 (23%)	76,113,113	2.79	27 (35%)
33	LMG	m	101	-	51,51,55	0.87	2 (3%)	59,59,63	1.36	6 (10%)
27	GOL	a	418	-	5,5,5	1.20	0	5,5,5	0.97	0
33	LMG	C	501	-	51,51,55	0.91	2 (3%)	59,59,63	1.57	7 (11%)
25	BCR	D	404	-	41,41,41	1.11	1 (2%)	56,56,56	1.89	15 (26%)
23	CLA	B	613	-	65,73,73	2.06	17 (26%)	76,113,113	2.73	29 (38%)
23	CLA	B	601	41	65,73,73	2.08	17 (26%)	76,113,113	2.81	27 (35%)
23	CLA	b	607	41	65,73,73	1.95	16 (24%)	76,113,113	2.65	28 (36%)
25	BCR	c	514	-	41,41,41	0.99	1 (2%)	56,56,56	1.68	15 (26%)
24	PHO	A	416[B]	-	51,69,69	1.92	8 (15%)	47,99,99	1.83	10 (21%)
23	CLA	c	511	3	65,73,73	2.11	17 (26%)	76,113,113	2.85	30 (39%)
25	BCR	T	101	-	41,41,41	1.01	1 (2%)	56,56,56	1.61	12 (21%)
23	CLA	b	603	-	65,73,73	1.99	16 (24%)	76,113,113	2.89	28 (36%)
29	PL9	A	414[A]	-	55,55,55	0.69	2 (3%)	68,69,69	2.01	24 (35%)
27	GOL	o	304	-	5,5,5	1.11	1 (20%)	5,5,5	1.15	0
31	LMT	e	101	-	36,36,36	1.01	1 (2%)	47,47,47	0.98	1 (2%)
32	LHG	d	407[B]	-	48,48,48	0.91	2 (4%)	51,54,54	0.99	3 (5%)
35	DGD	c	516[A]	-	63,63,67	0.85	2 (3%)	77,77,81	1.10	7 (9%)
32	LHG	L	101[A]	-	48,48,48	0.88	2 (4%)	51,54,54	1.15	4 (7%)
23	CLA	A	404[A]	-	65,73,73	2.02	16 (24%)	76,113,113	2.85	30 (39%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
25	BCR	K	102	-	41,41,41	1.07	1 (2%)	56,56,56	1.41	11 (19%)
27	GOL	A	411	-	5,5,5	1.16	0	5,5,5	0.66	0
35	DGD	C	519	-	63,63,67	0.85	3 (4%)	77,77,81	1.04	3 (3%)
29	PL9	D	405[B]	-	55,55,55	0.59	2 (3%)	68,69,69	1.68	17 (25%)
27	GOL	v	202[B]	-	5,5,5	1.10	0	5,5,5	0.85	0
35	DGD	C	517[A]	-	63,63,67	0.83	2 (3%)	77,77,81	1.20	8 (10%)
25	BCR	C	515	-	41,41,41	1.03	1 (2%)	56,56,56	1.48	6 (10%)
23	CLA	d	403	-	65,73,73	2.02	16 (24%)	76,113,113	2.73	29 (38%)
23	CLA	C	514	-	65,73,73	2.07	15 (23%)	76,113,113	2.77	28 (36%)
23	CLA	b	608	-	65,73,73	1.99	16 (24%)	76,113,113	2.83	32 (42%)
25	BCR	b	617	-	41,41,41	1.07	2 (4%)	56,56,56	1.44	7 (12%)
25	BCR	B	619	-	41,41,41	1.10	2 (4%)	56,56,56	1.28	6 (10%)
23	CLA	b	604	-	65,73,73	2.02	15 (23%)	76,113,113	2.63	26 (34%)
28	OEX	A	413[B]	41,1,3	0,15,15	-	-	-	-	-
25	BCR	c	515	-	41,41,41	1.02	1 (2%)	56,56,56	1.37	10 (17%)
32	LHG	b	629[A]	-	48,48,48	0.83	2 (4%)	51,54,54	1.04	4 (7%)
23	CLA	c	504	41	65,73,73	2.08	18 (27%)	76,113,113	2.71	30 (39%)
23	CLA	A	405[A]	41	65,73,73	1.99	15 (23%)	76,113,113	2.79	30 (39%)
40	HEC	v	201	16	32,50,50	2.09	4 (12%)	24,82,82	2.13	6 (25%)
27	GOL	C	523[B]	-	5,5,5	1.12	0	5,5,5	0.79	0
33	LMG	a	416	-	51,51,55	0.93	2 (3%)	59,59,63	1.24	5 (8%)
31	LMT	M	101	-	36,36,36	1.15	4 (11%)	47,47,47	1.24	4 (8%)
40	HEC	V	201	16	32,50,50	1.93	4 (12%)	24,82,82	2.26	7 (29%)
27	GOL	c	526	-	5,5,5	1.14	0	5,5,5	0.93	0
34	HTG	D	410	-	16,16,19	0.96	1 (6%)	20,21,24	1.59	1 (5%)
35	DGD	H	102	-	63,63,67	0.87	4 (6%)	77,77,81	1.14	9 (11%)
35	DGD	C	518[B]	-	63,63,67	0.88	3 (4%)	77,77,81	1.01	5 (6%)
23	CLA	b	606	-	65,73,73	2.01	15 (23%)	76,113,113	2.87	28 (36%)
23	CLA	C	503	-	65,73,73	2.04	15 (23%)	76,113,113	2.59	27 (35%)
28	OEX	a	412[A]	41,1,3	0,15,15	-	-	-	-	-
35	DGD	c	517[A]	-	63,63,67	0.85	3 (4%)	77,77,81	0.97	3 (3%)
23	CLA	A	406[B]	41	65,73,73	2.04	15 (23%)	76,113,113	2.77	29 (38%)
23	CLA	C	505	41	65,73,73	1.97	16 (24%)	76,113,113	2.82	24 (31%)
32	LHG	a	420[B]	-	41,41,48	1.04	2 (4%)	44,47,54	0.93	2 (4%)
33	LMG	c	520	-	51,51,55	1.02	2 (3%)	59,59,63	1.35	6 (10%)
34	HTG	b	622	-	19,19,19	1.21	3 (15%)	23,24,24	2.09	7 (30%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
23	CLA	b	611	-	65,73,73	1.94	16 (24%)	76,113,113	2.93	26 (34%)
29	PL9	A	414[B]	-	55,55,55	0.63	1 (1%)	68,69,69	1.98	24 (35%)
29	PL9	d	405[B]	-	55,55,55	0.68	2 (3%)	68,69,69	1.65	17 (25%)
24	PHO	A	407[A]	-	51,69,69	1.77	8 (15%)	47,99,99	1.69	10 (21%)
35	DGD	c	516[B]	-	63,63,67	0.84	2 (3%)	77,77,81	1.09	5 (6%)
34	HTG	B	622	-	19,19,19	0.83	1 (5%)	23,24,24	1.47	1 (4%)
37	BCT	d	401[A]	21	2,3,3	0.59	0	2,3,3	1.49	0
31	LMT	B	631	-	25,25,36	0.88	2 (8%)	30,30,47	1.15	3 (10%)
25	BCR	b	618	-	41,41,41	1.00	1 (2%)	56,56,56	1.30	6 (10%)
23	CLA	b	605	-	65,73,73	1.97	17 (26%)	76,113,113	3.01	24 (31%)
27	GOL	b	624	-	5,5,5	1.15	1 (20%)	5,5,5	0.85	0
25	BCR	B	618	-	41,41,41	0.96	1 (2%)	56,56,56	1.38	8 (14%)
31	LMT	t	101	-	26,26,36	0.91	2 (7%)	31,31,47	1.35	2 (6%)
33	LMG	D	411	39	51,51,55	0.84	2 (3%)	59,59,63	1.14	4 (6%)
23	CLA	d	402[A]	-	65,73,73	1.96	16 (24%)	76,113,113	2.74	29 (38%)
24	PHO	a	415[B]	-	51,69,69	1.89	8 (15%)	47,99,99	1.92	12 (25%)
23	CLA	b	614	-	65,73,73	2.02	16 (24%)	76,113,113	2.83	27 (35%)
27	GOL	c	525[A]	-	5,5,5	1.00	0	5,5,5	0.98	0
32	LHG	A	419[A]	-	48,48,48	0.87	2 (4%)	51,54,54	1.27	6 (11%)
23	CLA	c	505	-	65,73,73	1.99	15 (23%)	76,113,113	2.74	24 (31%)
34	HTG	d	410	-	16,16,19	0.99	1 (6%)	20,21,24	1.49	1 (5%)
35	DGD	c	518	-	63,63,67	0.86	4 (6%)	77,77,81	1.05	3 (3%)
32	LHG	D	406[A]	-	48,48,48	0.87	2 (4%)	51,54,54	1.01	3 (5%)
25	BCR	k	101	-	41,41,41	1.04	1 (2%)	56,56,56	1.46	13 (23%)
26	SQD	f	102	-	42,43,54	1.20	3 (7%)	51,54,65	1.49	12 (23%)
32	LHG	D	407[A]	-	48,48,48	0.93	2 (4%)	51,54,54	1.02	3 (5%)
23	CLA	C	508	41	65,73,73	1.95	17 (26%)	76,113,113	2.75	26 (34%)
32	LHG	b	629[B]	-	48,48,48	0.91	2 (4%)	51,54,54	1.01	2 (3%)
27	GOL	O	302	-	5,5,5	0.95	0	5,5,5	0.87	0
26	SQD	A	412	-	53,54,54	1.05	3 (5%)	62,65,65	1.25	8 (12%)
23	CLA	B	602	-	65,73,73	2.10	16 (24%)	76,113,113	2.82	31 (40%)
23	CLA	C	506	-	65,73,73	1.99	16 (24%)	76,113,113	2.75	28 (36%)
27	GOL	l	801[B]	-	5,5,5	0.86	0	5,5,5	1.00	0
25	BCR	a	409	-	41,41,41	1.08	1 (2%)	56,56,56	1.33	9 (16%)
23	CLA	a	406[A]	41	65,73,73	1.98	16 (24%)	76,113,113	2.77	27 (35%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
33	LMG	d	411	39	51,51,55	0.87	2 (3%)	59,59,63	1.16	5 (8%)
35	DGD	c	517[B]	-	63,63,67	0.86	2 (3%)	77,77,81	0.97	5 (6%)
34	HTG	c	521	-	19,19,19	0.93	1 (5%)	23,24,24	1.54	1 (4%)
24	PHO	a	407[B]	-	51,69,69	1.80	8 (15%)	47,99,99	1.71	12 (25%)
32	LHG	d	413[A]	-	48,48,48	0.89	2 (4%)	51,54,54	1.11	4 (7%)
27	GOL	V	203[B]	-	5,5,5	1.01	0	5,5,5	0.99	0
23	CLA	c	503	-	65,73,73	2.05	17 (26%)	76,113,113	2.76	25 (32%)
24	PHO	A	407[B]	-	51,69,69	1.82	8 (15%)	47,99,99	1.78	12 (25%)
27	GOL	D	412	-	5,5,5	1.53	2 (40%)	5,5,5	0.80	0
27	GOL	B	626	-	5,5,5	1.09	0	5,5,5	0.96	0
27	GOL	a	419	-	5,5,5	1.31	1 (20%)	5,5,5	0.92	0
29	PL9	a	413[A]	-	55,55,55	0.65	2 (3%)	68,69,69	2.01	22 (32%)
31	LMT	B	627	-	36,36,36	1.15	3 (8%)	47,47,47	1.41	6 (12%)
37	BCT	d	401[B]	21	2,3,3	0.63	0	2,3,3	1.10	0
37	BCT	D	401[A]	21	2,3,3	0.64	0	2,3,3	1.30	0
23	CLA	B	607	41	65,73,73	1.96	17 (26%)	76,113,113	2.82	29 (38%)
26	SQD	A	410[B]	-	53,54,54	0.94	3 (5%)	62,65,65	1.71	11 (17%)
34	HTG	o	301	-	19,19,19	1.11	2 (10%)	23,24,24	1.69	5 (21%)
25	BCR	h	101	-	41,41,41	1.03	1 (2%)	56,56,56	1.55	10 (17%)
33	LMG	B	621	-	51,51,55	0.89	2 (3%)	59,59,63	1.40	9 (15%)
23	CLA	b	602	-	65,73,73	2.04	16 (24%)	76,113,113	2.93	34 (44%)
23	CLA	b	612	-	65,73,73	2.04	17 (26%)	76,113,113	2.69	27 (35%)
23	CLA	b	613	-	65,73,73	1.97	16 (24%)	76,113,113	2.80	30 (39%)
26	SQD	b	620	-	53,54,54	1.05	3 (5%)	62,65,65	1.69	11 (17%)
23	CLA	a	404[A]	-	65,73,73	2.01	16 (24%)	76,113,113	2.86	32 (42%)
23	CLA	B	608	-	65,73,73	1.92	15 (23%)	76,113,113	2.79	34 (44%)
31	LMT	b	627	-	25,25,36	0.89	0	30,30,47	1.09	2 (6%)
27	GOL	c	525[B]	-	5,5,5	0.93	0	5,5,5	1.00	0
32	LHG	d	406[A]	-	48,48,48	0.87	2 (4%)	51,54,54	1.04	4 (7%)
26	SQD	B	620	-	53,54,54	1.06	3 (5%)	62,65,65	1.76	12 (19%)
35	DGD	h	102	-	63,63,67	0.87	3 (4%)	77,77,81	1.13	6 (7%)
23	CLA	B	616	-	65,73,73	2.04	17 (26%)	76,113,113	2.85	28 (36%)
26	SQD	a	410[A]	-	53,54,54	0.96	3 (5%)	62,65,65	1.83	13 (20%)
31	LMT	a	417	-	36,36,36	0.97	0	47,47,47	1.04	2 (4%)
23	CLA	B	606	-	65,73,73	1.98	16 (24%)	76,113,113	3.08	26 (34%)
32	LHG	D	406[B]	-	48,48,48	0.89	2 (4%)	51,54,54	0.98	3 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
32	LHG	L	101[B]	-	48,48,48	0.90	2 (4%)	51,54,54	1.14	4 (7%)
23	CLA	A	404[B]	-	65,73,73	2.12	17 (26%)	76,113,113	2.77	30 (39%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
32	LHG	D	407[B]	-	-	12/53/53/53	-
23	CLA	B	609	-	1/1/15/20	1/37/115/115	-
23	CLA	C	510	-	1/1/15/20	6/37/115/115	-
23	CLA	B	611	-	1/1/15/20	2/37/115/115	-
25	BCR	H	101	-	-	2/29/63/63	0/2/2/2
35	DGD	C	517[B]	-	-	16/51/91/95	0/2/2/2
23	CLA	C	507	-	1/1/15/20	12/37/115/115	-
31	LMT	m	103	-	-	5/21/61/61	0/2/2/2
23	CLA	D	402[A]	-	1/1/15/20	0/37/115/115	-
23	CLA	c	501	-	1/1/15/20	3/37/115/115	-
33	LMG	z	101	-	-	9/34/54/70	0/1/1/1
25	BCR	b	619	-	-	6/29/63/63	0/2/2/2
23	CLA	c	510	-	1/1/15/20	13/37/115/115	-
23	CLA	A	408	-	1/1/15/20	9/37/115/115	-
24	PHO	A	416[A]	-	-	1/37/103/103	0/5/6/6
23	CLA	B	614	-	1/1/15/20	15/37/115/115	-
32	LHG	d	407[A]	-	-	13/53/53/53	-
32	LHG	E	101[A]	-	-	22/46/46/53	-
25	BCR	y	101	-	-	3/29/63/63	0/2/2/2
27	GOL	A	418	-	-	2/4/4/4	-
23	CLA	A	405[B]	41	1/1/15/20	4/37/115/115	-
23	CLA	C	513	-	1/1/15/20	10/37/115/115	-
23	CLA	B	603	-	1/1/15/20	8/37/115/115	-
27	GOL	v	202[A]	-	-	2/4/4/4	-
27	GOL	o	303	-	-	2/4/4/4	-
26	SQD	a	410[B]	-	-	10/49/69/69	0/1/1/1
23	CLA	b	610	41	1/1/15/20	5/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
26	SQD	F	103	-	-	15/38/58/69	0/1/1/1
31	LMT	b	621	-	-	8/17/37/61	0/1/1/2
38	HEM	F	102	5,6	-	6/12/54/54	-
27	GOL	B	628	-	-	4/4/4/4	-
23	CLA	b	615	-	1/1/15/20	8/37/115/115	-
23	CLA	B	604	-	1/1/15/20	5/37/115/115	-
23	CLA	c	507	41	1/1/15/20	7/37/115/115	-
23	CLA	B	615	-	1/1/15/20	7/37/115/115	-
27	GOL	C	523[A]	-	-	0/4/4/4	-
23	CLA	d	402[B]	-	1/1/15/20	5/37/115/115	-
27	GOL	O	303	-	-	2/4/4/4	-
23	CLA	c	509	-	1/1/15/20	13/37/115/115	-
34	HTG	V	202	-	-	0/2/19/30	0/1/1/1
35	DGD	C	518[A]	-	-	13/51/91/95	0/2/2/2
23	CLA	b	609	-	1/1/15/20	1/37/115/115	-
23	CLA	A	406[A]	41	-	5/37/115/115	-
32	LHG	a	420[A]	-	-	16/46/46/53	-
25	BCR	d	404	-	-	5/29/63/63	0/2/2/2
23	CLA	B	612	-	1/1/15/20	4/37/115/115	-
23	CLA	D	403	-	1/1/15/20	13/37/115/115	-
31	LMT	F	101	-	-	8/21/61/61	0/2/2/2
29	PL9	d	405[A]	-	-	7/53/73/73	0/1/1/1
31	LMT	B	629	-	-	11/21/61/61	0/2/2/2
23	CLA	c	502	-	1/1/15/20	7/37/115/115	-
32	LHG	E	101[B]	-	-	21/46/46/53	-
23	CLA	a	405[A]	41	1/1/15/20	8/37/115/115	-
38	HEM	f	101	5,6	-	6/12/54/54	-
31	LMT	M	103	-	-	8/21/61/61	0/2/2/2
23	CLA	C	512	3	1/1/15/20	3/37/115/115	-
27	GOL	B	623	-	-	4/4/4/4	-
23	CLA	b	616	-	1/1/15/20	9/37/115/115	-
23	CLA	c	513	-	1/1/15/20	9/37/115/115	-
34	HTG	b	623	-	-	5/10/30/30	0/1/1/1
34	HTG	b	625	-	-	3/10/30/30	0/1/1/1
23	CLA	C	504	-	1/1/15/20	4/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	BCR	B	617	-	-	2/29/63/63	0/2/2/2
23	CLA	a	406[B]	41	-	5/37/115/115	-
32	LHG	d	413[B]	-	-	11/53/53/53	-
24	PHO	a	415[A]	-	-	1/37/103/103	0/5/6/6
29	PL9	a	413[B]	-	-	14/53/73/73	0/1/1/1
31	LMT	A	417	-	-	7/21/61/61	0/2/2/2
33	LMG	c	519	-	-	12/46/66/70	0/1/1/1
31	LMT	A	420	-	-	16/21/61/61	0/2/2/2
25	BCR	Y	101	-	-	5/29/63/63	0/2/2/2
23	CLA	B	605	-	1/1/15/20	5/37/115/115	-
27	GOL	d	412	-	-	2/4/4/4	-
25	BCR	t	102	-	-	1/29/63/63	0/2/2/2
29	PL9	D	405[A]	-	-	6/53/73/73	0/1/1/1
23	CLA	C	511	-	1/1/15/20	14/37/115/115	-
23	CLA	a	404[B]	-	1/1/15/20	4/37/115/115	-
23	CLA	C	509	-	1/1/15/20	5/37/115/115	-
25	BCR	C	516	-	-	0/29/63/63	0/2/2/2
26	SQD	a	411	-	-	15/49/69/69	0/1/1/1
34	HTG	C	522	-	-	0/10/30/30	0/1/1/1
23	CLA	C	502	-	1/1/15/20	5/37/115/115	-
27	GOL	l	801[A]	-	-	1/4/4/4	-
32	LHG	d	406[B]	-	-	16/53/53/53	-
33	LMG	C	521	-	-	14/46/66/70	0/1/1/1
23	CLA	c	506	-	1/1/15/20	7/37/115/115	-
32	LHG	A	419[B]	-	-	9/53/53/53	-
27	GOL	b	628	-	-	0/4/4/4	-
24	PHO	a	407[A]	-	-	6/37/103/103	0/5/6/6
27	GOL	V	203[A]	-	-	2/4/4/4	-
23	CLA	a	405[B]	41	1/1/15/20	4/37/115/115	-
23	CLA	B	610	41	1/1/15/20	8/37/115/115	-
25	BCR	A	409	-	-	0/29/63/63	0/2/2/2
23	CLA	a	408	-	1/1/15/20	9/37/115/115	-
23	CLA	c	508	-	1/1/15/20	5/37/115/115	-
23	CLA	c	512	-	1/1/15/20	14/37/115/115	-
33	LMG	C	520	-	-	15/46/66/70	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
34	HTG	B	624	-	-	4/10/30/30	0/1/1/1
23	CLA	D	402[B]	-	1/1/15/20	0/37/115/115	-
26	SQD	A	410[A]	-	-	12/49/69/69	0/1/1/1
33	LMG	Z	101	-	-	11/31/51/70	0/1/1/1
23	CLA	b	601	41	1/1/15/20	19/37/115/115	-
33	LMG	m	101	-	-	12/46/66/70	0/1/1/1
27	GOL	a	418	-	-	2/4/4/4	-
33	LMG	C	501	-	-	13/46/66/70	0/1/1/1
25	BCR	D	404	-	-	4/29/63/63	0/2/2/2
23	CLA	B	613	-	1/1/15/20	8/37/115/115	-
23	CLA	B	601	41	1/1/15/20	14/37/115/115	-
23	CLA	b	607	41	1/1/15/20	2/37/115/115	-
25	BCR	c	514	-	-	2/29/63/63	0/2/2/2
24	PHO	A	416[B]	-	-	2/37/103/103	0/5/6/6
23	CLA	c	511	3	1/1/15/20	5/37/115/115	-
25	BCR	T	101	-	-	1/29/63/63	0/2/2/2
23	CLA	b	603	-	1/1/15/20	6/37/115/115	-
29	PL9	A	414[A]	-	-	15/53/73/73	0/1/1/1
27	GOL	o	304	-	-	2/4/4/4	-
31	LMT	e	101	-	-	15/21/61/61	0/2/2/2
32	LHG	d	407[B]	-	-	11/53/53/53	-
35	DGD	c	516[A]	-	-	18/51/91/95	0/2/2/2
32	LHG	L	101[A]	-	-	20/53/53/53	-
23	CLA	A	404[A]	-	1/1/15/20	3/37/115/115	-
25	BCR	K	102	-	-	2/29/63/63	0/2/2/2
27	GOL	A	411	-	-	2/4/4/4	-
35	DGD	C	519	-	-	18/51/91/95	0/2/2/2
29	PL9	D	405[B]	-	-	8/53/73/73	0/1/1/1
27	GOL	v	202[B]	-	-	2/4/4/4	-
35	DGD	C	517[A]	-	-	14/51/91/95	0/2/2/2
25	BCR	C	515	-	-	1/29/63/63	0/2/2/2
23	CLA	d	403	-	1/1/15/20	8/37/115/115	-
23	CLA	C	514	-	1/1/15/20	7/37/115/115	-
23	CLA	b	608	-	-	6/37/115/115	-
25	BCR	b	617	-	-	2/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	BCR	B	619	-	-	0/29/63/63	0/2/2/2
23	CLA	b	604	-	1/1/15/20	9/37/115/115	-
25	BCR	c	515	-	-	0/29/63/63	0/2/2/2
32	LHG	b	629[A]	-	-	14/53/53/53	-
23	CLA	c	504	41	1/1/15/20	8/37/115/115	-
23	CLA	A	405[A]	41	1/1/15/20	3/37/115/115	-
40	HEC	v	201	16	-	2/10/54/54	-
27	GOL	C	523[B]	-	-	0/4/4/4	-
33	LMG	a	416	-	-	14/46/66/70	0/1/1/1
31	LMT	M	101	-	-	5/21/61/61	0/2/2/2
40	HEC	V	201	16	-	2/10/54/54	-
27	GOL	c	526	-	-	3/4/4/4	-
34	HTG	D	410	-	-	3/7/27/30	0/1/1/1
35	DGD	H	102	-	-	9/51/91/95	0/2/2/2
35	DGD	C	518[B]	-	-	12/51/91/95	0/2/2/2
23	CLA	b	606	-	1/1/15/20	12/37/115/115	-
23	CLA	C	503	-	1/1/15/20	8/37/115/115	-
35	DGD	c	517[A]	-	-	16/51/91/95	0/2/2/2
23	CLA	A	406[B]	41	-	4/37/115/115	-
23	CLA	C	505	41	1/1/15/20	8/37/115/115	-
32	LHG	a	420[B]	-	-	16/46/46/53	-
33	LMG	c	520	-	-	11/46/66/70	0/1/1/1
34	HTG	b	622	-	-	4/10/30/30	0/1/1/1
23	CLA	b	611	-	1/1/15/20	5/37/115/115	-
29	PL9	A	414[B]	-	-	14/53/73/73	0/1/1/1
29	PL9	d	405[B]	-	-	7/53/73/73	0/1/1/1
24	PHO	A	407[A]	-	-	3/37/103/103	0/5/6/6
35	DGD	c	516[B]	-	-	17/51/91/95	0/2/2/2
34	HTG	B	622	-	-	2/10/30/30	0/1/1/1
31	LMT	B	631	-	-	11/17/37/61	0/1/1/2
25	BCR	b	618	-	-	0/29/63/63	0/2/2/2
23	CLA	b	605	-	1/1/15/20	7/37/115/115	-
27	GOL	b	624	-	-	2/4/4/4	-
25	BCR	B	618	-	-	0/29/63/63	0/2/2/2
31	LMT	t	101	-	-	9/17/38/61	0/1/1/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	LMG	D	411	39	-	10/46/66/70	0/1/1/1
23	CLA	d	402[A]	-	1/1/15/20	4/37/115/115	-
24	PHO	a	415[B]	-	-	1/37/103/103	0/5/6/6
23	CLA	b	614	-	1/1/15/20	13/37/115/115	-
27	GOL	c	525[A]	-	-	0/4/4/4	-
32	LHG	A	419[A]	-	-	14/53/53/53	-
23	CLA	c	505	-	1/1/15/20	6/37/115/115	-
34	HTG	d	410	-	-	1/7/27/30	0/1/1/1
35	DGD	c	518	-	-	8/51/91/95	0/2/2/2
32	LHG	D	406[A]	-	-	17/53/53/53	-
25	BCR	k	101	-	-	0/29/63/63	0/2/2/2
26	SQD	f	102	-	-	13/38/58/69	0/1/1/1
32	LHG	D	407[A]	-	-	14/53/53/53	-
23	CLA	C	508	41	1/1/15/20	7/37/115/115	-
32	LHG	b	629[B]	-	-	17/53/53/53	-
27	GOL	O	302	-	-	2/4/4/4	-
26	SQD	A	412	-	-	15/49/69/69	0/1/1/1
23	CLA	B	602	-	1/1/15/20	9/37/115/115	-
23	CLA	C	506	-	1/1/15/20	6/37/115/115	-
27	GOL	l	801[B]	-	-	3/4/4/4	-
25	BCR	a	409	-	-	1/29/63/63	0/2/2/2
23	CLA	a	406[A]	41	-	6/37/115/115	-
33	LMG	d	411	39	-	11/46/66/70	0/1/1/1
35	DGD	c	517[B]	-	-	15/51/91/95	0/2/2/2
34	HTG	c	521	-	-	2/10/30/30	0/1/1/1
24	PHO	a	407[B]	-	-	5/37/103/103	0/5/6/6
32	LHG	d	413[A]	-	-	17/53/53/53	-
27	GOL	V	203[B]	-	-	3/4/4/4	-
23	CLA	c	503	-	1/1/15/20	1/37/115/115	-
24	PHO	A	407[B]	-	-	4/37/103/103	0/5/6/6
27	GOL	D	412	-	-	4/4/4/4	-
27	GOL	B	626	-	-	3/4/4/4	-
27	GOL	a	419	-	-	0/4/4/4	-
29	PL9	a	413[A]	-	-	14/53/73/73	0/1/1/1
31	LMT	B	627	-	-	12/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	CLA	B	607	41	1/1/15/20	3/37/115/115	-
26	SQD	A	410[B]	-	-	12/49/69/69	0/1/1/1
34	HTG	o	301	-	-	3/10/30/30	0/1/1/1
25	BCR	h	101	-	-	2/29/63/63	0/2/2/2
33	LMG	B	621	-	-	20/46/66/70	0/1/1/1
23	CLA	b	602	-	1/1/15/20	5/37/115/115	-
23	CLA	b	612	-	1/1/15/20	5/37/115/115	-
23	CLA	b	613	-	1/1/15/20	6/37/115/115	-
26	SQD	b	620	-	-	18/49/69/69	0/1/1/1
23	CLA	a	404[A]	-	1/1/15/20	4/37/115/115	-
23	CLA	B	608	-	-	4/37/115/115	-
31	LMT	b	627	-	-	11/17/37/61	0/1/1/2
27	GOL	c	525[B]	-	-	0/4/4/4	-
32	LHG	d	406[A]	-	-	13/53/53/53	-
26	SQD	B	620	-	-	14/49/69/69	0/1/1/1
35	DGD	h	102	-	-	11/51/91/95	0/2/2/2
23	CLA	B	616	-	1/1/15/20	7/37/115/115	-
26	SQD	a	410[A]	-	-	9/49/69/69	0/1/1/1
31	LMT	a	417	-	-	10/21/61/61	0/2/2/2
23	CLA	B	606	-	1/1/15/20	7/37/115/115	-
32	LHG	D	406[B]	-	-	17/53/53/53	-
32	LHG	L	101[B]	-	-	18/53/53/53	-
23	CLA	A	404[B]	-	1/1/15/20	5/37/115/115	-

All (1555) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	611	CLA	C3B-C2B	11.59	1.56	1.40
23	C	509	CLA	C3B-C2B	7.09	1.50	1.40
23	c	502	CLA	C3B-C2B	6.82	1.49	1.40
23	B	611	CLA	CMB-C2B	6.80	1.65	1.51
23	B	612	CLA	C3B-C2B	6.76	1.49	1.40
23	B	616	CLA	C3B-C2B	6.65	1.49	1.40
24	A	416[B]	PHO	C3B-C2B	6.64	1.49	1.40
23	C	514	CLA	C3B-C2B	6.59	1.49	1.40
23	b	612	CLA	C3B-C2B	6.57	1.49	1.40
23	b	603	CLA	C3B-C2B	6.55	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	511	CLA	C3B-C2B	6.46	1.49	1.40
23	C	510	CLA	C3B-C2B	6.40	1.49	1.40
23	D	402[A]	CLA	C3B-C2B	6.40	1.49	1.40
23	B	603	CLA	C3B-C2B	6.40	1.49	1.40
24	a	407[A]	PHO	C3B-C2B	6.39	1.49	1.40
40	v	201	HEC	C2B-C3B	-6.38	1.34	1.40
23	C	512	CLA	C3B-C2B	6.31	1.49	1.40
23	c	508	CLA	C3B-C2B	6.31	1.49	1.40
23	b	601	CLA	C3B-C2B	6.29	1.49	1.40
23	B	602	CLA	C3B-C2B	6.29	1.49	1.40
23	C	505	CLA	C3B-C2B	6.29	1.49	1.40
23	B	611	CLA	C1D-ND	6.23	1.45	1.37
23	b	606	CLA	C3B-C2B	6.21	1.49	1.40
23	D	402[B]	CLA	C3B-C2B	6.18	1.48	1.40
24	a	415[B]	PHO	C3B-C2B	6.15	1.48	1.40
23	A	408	CLA	C3B-C2B	6.15	1.48	1.40
24	a	407[B]	PHO	C3B-C2B	6.14	1.48	1.40
24	A	407[A]	PHO	C3B-C2B	6.13	1.48	1.40
23	B	608	CLA	C3B-C2B	6.11	1.48	1.40
23	A	404[B]	CLA	C3B-C2B	6.11	1.48	1.40
23	c	506	CLA	C3B-C2B	6.11	1.48	1.40
23	b	608	CLA	C3B-C2B	6.11	1.48	1.40
23	b	611	CLA	C3B-C2B	6.11	1.48	1.40
23	d	402[B]	CLA	C3B-C2B	6.09	1.48	1.40
23	C	511	CLA	C3B-C2B	6.06	1.48	1.40
23	B	601	CLA	C3B-C2B	6.01	1.48	1.40
23	C	503	CLA	C3B-C2B	5.98	1.48	1.40
23	A	404[A]	CLA	C3B-C2B	5.96	1.48	1.40
24	A	416[A]	PHO	C3B-C2B	5.94	1.48	1.40
24	A	407[B]	PHO	C3B-C2B	5.94	1.48	1.40
23	b	614	CLA	C3B-C2B	5.94	1.48	1.40
23	B	606	CLA	C3B-C2B	5.92	1.48	1.40
23	c	504	CLA	C3B-C2B	5.91	1.48	1.40
23	B	613	CLA	C3B-C2B	5.89	1.48	1.40
23	B	611	CLA	CHC-C1C	5.88	1.50	1.35
23	c	510	CLA	C3B-C2B	5.88	1.48	1.40
24	a	415[A]	PHO	C3B-C2B	5.88	1.48	1.40
23	c	509	CLA	C3B-C2B	5.87	1.48	1.40
23	a	404[A]	CLA	C3B-C2B	5.86	1.48	1.40
23	b	616	CLA	C3B-C2B	5.83	1.48	1.40
23	a	408	CLA	C3B-C2B	5.80	1.48	1.40
23	a	404[B]	CLA	C3B-C2B	5.80	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	507	CLA	C3B-C2B	5.79	1.48	1.40
23	C	513	CLA	C3C-C2C	5.78	1.49	1.36
23	B	611	CLA	C3C-C2C	5.78	1.49	1.36
23	C	513	CLA	C3B-C2B	5.77	1.48	1.40
23	D	403	CLA	C1D-ND	5.77	1.44	1.37
23	B	614	CLA	C3B-C2B	5.76	1.48	1.40
23	B	610	CLA	C3C-C2C	5.75	1.48	1.36
23	a	405[B]	CLA	C1D-ND	5.74	1.44	1.37
23	c	511	CLA	C1D-ND	5.74	1.44	1.37
23	B	605	CLA	C3C-C2C	5.73	1.48	1.36
23	C	511	CLA	C1D-ND	5.73	1.44	1.37
23	c	508	CLA	O2D-CGD	5.72	1.47	1.33
23	b	607	CLA	C3B-C2B	5.70	1.48	1.40
23	d	402[A]	CLA	C3B-C2B	5.68	1.48	1.40
23	b	604	CLA	C3B-C2B	5.67	1.48	1.40
23	C	504	CLA	C3C-C2C	5.63	1.48	1.36
23	c	513	CLA	C1D-ND	5.63	1.44	1.37
23	A	405[B]	CLA	C3B-C2B	5.61	1.48	1.40
23	c	513	CLA	C3B-C2B	5.58	1.48	1.40
23	a	405[A]	CLA	C3C-C2C	5.58	1.48	1.36
23	b	613	CLA	C3B-C2B	5.58	1.48	1.40
23	a	404[B]	CLA	C3C-C2C	5.57	1.48	1.36
23	B	607	CLA	C3B-C2B	5.57	1.48	1.40
23	c	510	CLA	C1D-ND	5.57	1.44	1.37
23	A	404[B]	CLA	C1D-ND	5.56	1.44	1.37
23	b	610	CLA	CHC-C1C	5.55	1.49	1.35
23	b	601	CLA	C1D-ND	5.55	1.44	1.37
23	a	406[B]	CLA	C3C-C2C	5.55	1.48	1.36
23	C	502	CLA	C3B-C2B	5.55	1.48	1.40
23	b	610	CLA	C3B-C2B	5.55	1.48	1.40
40	v	201	HEC	C3D-C2D	5.55	1.54	1.37
23	b	609	CLA	C3B-C2B	5.52	1.48	1.40
23	b	615	CLA	C3C-C2C	5.51	1.48	1.36
23	C	513	CLA	CHC-C1C	5.50	1.49	1.35
23	A	406[B]	CLA	CHC-C1C	5.49	1.49	1.35
23	c	505	CLA	C3C-C2C	5.49	1.48	1.36
23	c	508	CLA	C1D-ND	5.49	1.44	1.37
24	a	407[B]	PHO	C3D-C2D	5.48	1.49	1.39
23	D	402[B]	CLA	C3C-C2C	5.48	1.48	1.36
23	c	504	CLA	C1D-ND	5.48	1.44	1.37
23	C	506	CLA	CHC-C1C	5.48	1.49	1.35
23	a	405[B]	CLA	C3C-C2C	5.48	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	609	CLA	O2D-CGD	5.47	1.46	1.33
24	a	415[B]	PHO	C3D-C2D	5.47	1.49	1.39
24	a	415[A]	PHO	C3D-C2D	5.46	1.49	1.39
23	c	512	CLA	C3B-C2B	5.46	1.47	1.40
23	D	403	CLA	C3C-C2C	5.46	1.48	1.36
24	a	407[A]	PHO	C3D-C2D	5.46	1.49	1.39
23	C	508	CLA	C3B-C2B	5.46	1.47	1.40
23	d	403	CLA	C3C-C2C	5.45	1.48	1.36
24	A	416[B]	PHO	C3D-C2D	5.44	1.49	1.39
23	b	612	CLA	C3C-C2C	5.44	1.48	1.36
23	A	404[B]	CLA	C3C-C2C	5.43	1.48	1.36
23	A	404[A]	CLA	C3C-C2C	5.43	1.48	1.36
23	c	503	CLA	C3C-C2C	5.43	1.48	1.36
23	B	604	CLA	C3B-C2B	5.43	1.47	1.40
23	a	408	CLA	CHC-C1C	5.43	1.48	1.35
23	a	405[A]	CLA	C1D-ND	5.42	1.44	1.37
23	a	406[A]	CLA	C3B-C2B	5.42	1.47	1.40
23	A	406[B]	CLA	C3C-C2C	5.41	1.48	1.36
23	b	605	CLA	C3C-C2C	5.41	1.48	1.36
23	B	609	CLA	CHC-C1C	5.40	1.48	1.35
23	B	613	CLA	CHC-C1C	5.40	1.48	1.35
23	c	505	CLA	CHC-C1C	5.40	1.48	1.35
23	B	614	CLA	C1D-ND	5.40	1.44	1.37
23	c	503	CLA	CHC-C1C	5.39	1.48	1.35
23	c	512	CLA	C3C-C2C	5.39	1.48	1.36
23	c	501	CLA	CHC-C1C	5.37	1.48	1.35
23	B	606	CLA	CHC-C1C	5.36	1.48	1.35
23	b	615	CLA	CHC-C1C	5.35	1.48	1.35
23	b	603	CLA	C3C-C2C	5.35	1.48	1.36
23	b	609	CLA	CHC-C1C	5.34	1.48	1.35
23	b	601	CLA	C3C-C2C	5.34	1.48	1.36
23	c	510	CLA	O2D-CGD	5.34	1.46	1.33
24	A	416[A]	PHO	C3D-C2D	5.33	1.49	1.39
23	C	504	CLA	C3B-C2B	5.33	1.47	1.40
23	b	613	CLA	CHC-C1C	5.33	1.48	1.35
23	a	406[B]	CLA	C3B-C2B	5.32	1.47	1.40
23	c	501	CLA	C1D-ND	5.32	1.44	1.37
23	d	402[B]	CLA	C3C-C2C	5.31	1.48	1.36
23	B	610	CLA	C3B-C2B	5.31	1.47	1.40
23	D	403	CLA	CHC-C1C	5.31	1.48	1.35
23	a	406[A]	CLA	C3C-C2C	5.31	1.48	1.36
23	a	404[B]	CLA	C1D-ND	5.30	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	402[A]	CLA	C3C-C2C	5.30	1.48	1.36
23	A	406[A]	CLA	CHC-C1C	5.30	1.48	1.35
24	a	415[A]	PHO	OBD-CAD	5.30	1.29	1.22
23	B	601	CLA	C3C-C2C	5.30	1.48	1.36
23	b	610	CLA	C3C-C2C	5.29	1.48	1.36
23	C	509	CLA	C1D-ND	5.29	1.44	1.37
23	c	513	CLA	C3C-C2C	5.28	1.48	1.36
23	A	408	CLA	C3C-C2C	5.28	1.48	1.36
24	A	416[A]	PHO	OBD-CAD	5.28	1.29	1.22
23	B	615	CLA	C3B-C2B	5.28	1.47	1.40
23	A	404[B]	CLA	CHC-C1C	5.28	1.48	1.35
23	a	405[B]	CLA	C3B-C2B	5.28	1.47	1.40
23	b	606	CLA	C3C-C2C	5.28	1.47	1.36
23	C	510	CLA	C3C-C2C	5.28	1.47	1.36
23	b	602	CLA	CHC-C1C	5.27	1.48	1.35
23	C	509	CLA	C3C-C2C	5.27	1.47	1.36
23	d	403	CLA	C1D-ND	5.26	1.44	1.37
23	C	503	CLA	C1D-ND	5.26	1.44	1.37
23	b	615	CLA	C3B-C2B	5.25	1.47	1.40
23	B	604	CLA	C3C-C2C	5.25	1.47	1.36
23	b	614	CLA	C3C-C2C	5.25	1.47	1.36
23	C	513	CLA	C1D-ND	5.25	1.44	1.37
23	b	607	CLA	C3C-C2C	5.25	1.47	1.36
23	C	502	CLA	CHC-C1C	5.25	1.48	1.35
23	b	605	CLA	C3B-C2B	5.24	1.47	1.40
23	a	404[B]	CLA	CHC-C1C	5.24	1.48	1.35
23	b	616	CLA	C3C-C2C	5.24	1.47	1.36
23	c	508	CLA	C3C-C2C	5.24	1.47	1.36
23	B	603	CLA	C3C-C2C	5.24	1.47	1.36
24	a	407[A]	PHO	O2D-CGD	5.24	1.46	1.33
23	c	504	CLA	O2D-CGD	5.24	1.46	1.33
23	c	512	CLA	CHC-C1C	5.24	1.48	1.35
23	c	509	CLA	C3C-C2C	5.22	1.47	1.36
23	B	602	CLA	C3C-C2C	5.21	1.47	1.36
23	C	506	CLA	C3B-C2B	5.21	1.47	1.40
23	C	508	CLA	CHC-C1C	5.21	1.48	1.35
23	B	616	CLA	C3C-C2C	5.20	1.47	1.36
23	C	511	CLA	C3C-C2C	5.20	1.47	1.36
23	b	605	CLA	O2D-CGD	5.20	1.45	1.33
23	C	508	CLA	C3C-C2C	5.19	1.47	1.36
23	d	403	CLA	C3B-C2B	5.19	1.47	1.40
23	c	509	CLA	O2D-CGD	5.19	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	609	CLA	C3B-C2B	5.19	1.47	1.40
23	B	616	CLA	CHC-C1C	5.18	1.48	1.35
40	V	201	HEC	C2B-C3B	-5.17	1.35	1.40
23	b	604	CLA	C3C-C2C	5.17	1.47	1.36
23	A	406[B]	CLA	C3B-C2B	5.17	1.47	1.40
23	B	604	CLA	CHC-C1C	5.16	1.48	1.35
23	b	613	CLA	C1D-ND	5.16	1.44	1.37
25	d	404	BCR	C23-C22	-5.15	1.34	1.45
23	B	609	CLA	C3C-C2C	5.15	1.47	1.36
23	c	506	CLA	O2D-CGD	5.15	1.45	1.33
23	B	602	CLA	C1D-ND	5.15	1.44	1.37
23	a	406[B]	CLA	CHC-C1C	5.15	1.48	1.35
23	C	509	CLA	O2D-CGD	5.14	1.45	1.33
23	d	403	CLA	CHC-C1C	5.14	1.48	1.35
23	B	606	CLA	C3C-C2C	5.14	1.47	1.36
23	A	405[A]	CLA	O2D-CGD	5.14	1.45	1.33
23	A	406[A]	CLA	C3C-C2C	5.13	1.47	1.36
23	c	512	CLA	C1D-ND	5.13	1.44	1.37
23	a	404[A]	CLA	C1D-ND	5.13	1.44	1.37
23	c	507	CLA	CHC-C1C	5.13	1.48	1.35
23	A	404[A]	CLA	C1D-ND	5.13	1.44	1.37
23	B	601	CLA	O2A-CGA	5.12	1.48	1.33
23	c	503	CLA	C1D-ND	5.12	1.44	1.37
23	c	501	CLA	C3B-C2B	5.12	1.47	1.40
23	B	601	CLA	CHC-C1C	5.12	1.48	1.35
23	c	501	CLA	C3C-C2C	5.11	1.47	1.36
23	b	606	CLA	CHC-C1C	5.11	1.48	1.35
23	C	511	CLA	CHC-C1C	5.11	1.48	1.35
23	b	616	CLA	CHC-C1C	5.11	1.48	1.35
23	B	614	CLA	C3C-C2C	5.11	1.47	1.36
23	c	502	CLA	C3C-C2C	5.09	1.47	1.36
23	B	613	CLA	C1D-ND	5.09	1.44	1.37
23	C	504	CLA	CHC-C1C	5.09	1.48	1.35
23	d	402[A]	CLA	C3C-C2C	5.09	1.47	1.36
23	A	405[B]	CLA	CHC-C1C	5.09	1.48	1.35
23	C	512	CLA	O2D-CGD	5.08	1.45	1.33
23	c	508	CLA	CHC-C1C	5.08	1.48	1.35
23	c	511	CLA	C3C-C2C	5.07	1.47	1.36
23	A	405[B]	CLA	C3C-C2C	5.07	1.47	1.36
23	c	504	CLA	C3C-C2C	5.07	1.47	1.36
24	a	415[B]	PHO	OBD-CAD	5.07	1.29	1.22
23	A	406[B]	CLA	C1D-ND	5.07	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	402[B]	CLA	O2D-CGD	5.07	1.45	1.33
23	b	601	CLA	CHC-C1C	5.06	1.48	1.35
23	a	405[B]	CLA	O2D-CGD	5.06	1.45	1.33
23	B	602	CLA	CHC-C1C	5.06	1.47	1.35
23	a	404[A]	CLA	CHC-C1C	5.06	1.47	1.35
23	B	612	CLA	CHC-C1C	5.06	1.47	1.35
23	C	514	CLA	CHC-C1C	5.06	1.47	1.35
23	b	604	CLA	CHC-C1C	5.06	1.47	1.35
23	C	506	CLA	C3C-C2C	5.05	1.47	1.36
23	c	513	CLA	CHC-C1C	5.05	1.47	1.35
23	B	615	CLA	CHC-C1C	5.05	1.47	1.35
23	b	603	CLA	O2D-CGD	5.05	1.45	1.33
23	C	505	CLA	C3C-C2C	5.05	1.47	1.36
23	c	506	CLA	C1D-ND	5.05	1.44	1.37
23	a	406[B]	CLA	O2D-CGD	5.04	1.45	1.33
25	K	102	BCR	C23-C22	-5.04	1.35	1.45
23	A	405[A]	CLA	CHC-C1C	5.04	1.47	1.35
23	a	406[A]	CLA	CHC-C1C	5.04	1.47	1.35
23	a	408	CLA	C3C-C2C	5.03	1.47	1.36
23	c	506	CLA	C3C-C2C	5.02	1.47	1.36
23	C	503	CLA	C3C-C2C	5.02	1.47	1.36
23	A	408	CLA	O2D-CGD	5.02	1.45	1.33
23	a	404[A]	CLA	C3C-C2C	5.02	1.47	1.36
23	b	602	CLA	C3C-C2C	5.02	1.47	1.36
23	C	507	CLA	C3C-C2C	5.02	1.47	1.36
23	D	402[B]	CLA	CHC-C1C	5.01	1.47	1.35
23	c	503	CLA	C3B-C2B	5.01	1.47	1.40
23	C	507	CLA	O2D-CGD	5.01	1.45	1.33
23	B	610	CLA	C1D-ND	5.00	1.43	1.37
23	A	406[B]	CLA	O2D-CGD	5.00	1.45	1.33
23	B	610	CLA	O2D-CGD	5.00	1.45	1.33
23	b	602	CLA	C3B-C2B	5.00	1.47	1.40
23	b	614	CLA	CHC-C1C	5.00	1.47	1.35
23	c	511	CLA	CHC-C1C	5.00	1.47	1.35
24	A	416[B]	PHO	O2D-CGD	4.99	1.45	1.33
23	B	613	CLA	C3C-C2C	4.99	1.47	1.36
23	B	605	CLA	C1D-ND	4.99	1.43	1.37
23	D	402[A]	CLA	CHC-C1C	4.98	1.47	1.35
23	B	613	CLA	O2D-CGD	4.98	1.45	1.33
24	a	415[B]	PHO	O2D-CGD	4.97	1.45	1.33
23	B	605	CLA	CHC-C1C	4.97	1.47	1.35
23	c	507	CLA	C3B-C2B	4.96	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	513	CLA	O2D-CGD	4.96	1.45	1.33
23	A	405[B]	CLA	O2D-CGD	4.96	1.45	1.33
23	A	405[A]	CLA	C3C-C2C	4.96	1.47	1.36
25	C	515	BCR	C23-C22	-4.96	1.35	1.45
23	a	405[A]	CLA	O2D-CGD	4.95	1.45	1.33
24	A	416[A]	PHO	O2D-CGD	4.95	1.45	1.33
23	C	514	CLA	C3C-C2C	4.95	1.47	1.36
23	b	609	CLA	C3C-C2C	4.94	1.47	1.36
23	B	609	CLA	C1D-ND	4.94	1.43	1.37
23	B	607	CLA	CHC-C1C	4.94	1.47	1.35
23	b	605	CLA	C1D-ND	4.94	1.43	1.37
23	D	403	CLA	C3B-C2B	4.94	1.47	1.40
23	C	502	CLA	C3C-C2C	4.93	1.47	1.36
23	A	404[A]	CLA	CHC-C1C	4.93	1.47	1.35
25	k	101	BCR	C23-C22	-4.93	1.35	1.45
23	a	405[B]	CLA	CHC-C1C	4.93	1.47	1.35
23	B	610	CLA	CHC-C1C	4.93	1.47	1.35
23	B	606	CLA	C1D-ND	4.93	1.43	1.37
24	a	407[B]	PHO	O2D-CGD	4.93	1.45	1.33
23	A	405[A]	CLA	C3B-C2B	4.92	1.47	1.40
40	v	201	HEC	C3C-C2C	-4.92	1.35	1.40
23	b	603	CLA	CHC-C1C	4.92	1.47	1.35
23	c	507	CLA	O2D-CGD	4.91	1.45	1.33
26	F	103	SQD	O47-C7	4.91	1.48	1.34
23	C	514	CLA	C1D-ND	4.91	1.43	1.37
23	c	507	CLA	C1D-ND	4.91	1.43	1.37
23	B	603	CLA	C1D-ND	4.91	1.43	1.37
24	A	407[A]	PHO	O2D-CGD	4.91	1.45	1.33
24	A	416[B]	PHO	OBD-CAD	4.91	1.29	1.22
23	B	601	CLA	O2D-CGD	4.90	1.45	1.33
23	a	405[A]	CLA	CHC-C1C	4.90	1.47	1.35
23	b	602	CLA	O2D-CGD	4.90	1.45	1.33
23	b	601	CLA	O2A-CGA	4.90	1.47	1.33
23	b	607	CLA	CHC-C1C	4.90	1.47	1.35
24	A	407[B]	PHO	O2D-CGD	4.89	1.45	1.33
23	B	605	CLA	O2D-CGD	4.89	1.45	1.33
23	B	615	CLA	C3C-C2C	4.89	1.47	1.36
23	C	506	CLA	C1D-ND	4.88	1.43	1.37
23	c	507	CLA	C3C-C2C	4.88	1.47	1.36
23	D	402[A]	CLA	O2D-CGD	4.88	1.45	1.33
40	V	201	HEC	C3D-C2D	4.88	1.52	1.37
23	B	608	CLA	C3C-C2C	4.88	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	504	CLA	CHC-C1C	4.88	1.47	1.35
23	b	611	CLA	CHC-C1C	4.87	1.47	1.35
23	a	404[B]	CLA	O2D-CGD	4.86	1.45	1.33
23	C	503	CLA	O2D-CGD	4.86	1.45	1.33
23	B	614	CLA	CHC-C1C	4.86	1.47	1.35
23	c	509	CLA	C1D-ND	4.85	1.43	1.37
23	C	512	CLA	CHC-C1C	4.85	1.47	1.35
23	B	611	CLA	O2D-CGD	4.85	1.45	1.33
23	b	608	CLA	CHC-C1C	4.84	1.47	1.35
23	c	510	CLA	CHC-C1C	4.84	1.47	1.35
33	c	520	LMG	O7-C10	4.84	1.48	1.34
24	a	415[A]	PHO	O2D-CGD	4.84	1.45	1.33
23	C	514	CLA	O2D-CGD	4.83	1.45	1.33
23	B	601	CLA	C1D-ND	4.83	1.43	1.37
23	c	505	CLA	C3B-C2B	4.83	1.47	1.40
23	C	509	CLA	CHC-C1C	4.83	1.47	1.35
23	C	510	CLA	CHC-C1C	4.83	1.47	1.35
23	b	616	CLA	C1D-ND	4.83	1.43	1.37
25	B	619	BCR	C23-C22	-4.82	1.35	1.45
23	C	502	CLA	C1D-ND	4.82	1.43	1.37
23	A	404[B]	CLA	O2D-CGD	4.82	1.45	1.33
24	A	407[B]	PHO	C3D-C2D	4.82	1.48	1.39
23	B	607	CLA	C3C-C2C	4.82	1.47	1.36
23	B	615	CLA	CHD-C1D	4.81	1.47	1.38
23	b	601	CLA	O2D-CGD	4.80	1.44	1.33
23	B	603	CLA	CHC-C1C	4.80	1.47	1.35
23	C	510	CLA	O2D-CGD	4.80	1.44	1.33
23	c	510	CLA	C3C-C2C	4.80	1.46	1.36
23	b	604	CLA	C1D-ND	4.80	1.43	1.37
23	B	602	CLA	O2D-CGD	4.79	1.44	1.33
24	A	407[A]	PHO	C3D-C2D	4.79	1.48	1.39
23	C	505	CLA	CHC-C1C	4.79	1.47	1.35
23	c	503	CLA	CHD-C1D	4.79	1.47	1.38
23	b	613	CLA	C3C-C2C	4.78	1.46	1.36
23	b	611	CLA	C3C-C2C	4.78	1.46	1.36
23	A	404[A]	CLA	O2D-CGD	4.77	1.44	1.33
23	c	506	CLA	CHC-C1C	4.77	1.47	1.35
23	C	505	CLA	O2D-CGD	4.77	1.44	1.33
23	b	606	CLA	C1D-ND	4.77	1.43	1.37
23	b	613	CLA	O2D-CGD	4.76	1.44	1.33
23	b	608	CLA	C3C-C2C	4.76	1.46	1.36
23	B	606	CLA	O2D-CGD	4.76	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	403	CLA	O2D-CGD	4.76	1.44	1.33
23	B	604	CLA	CHD-C1D	4.76	1.47	1.38
23	b	610	CLA	O2D-CGD	4.75	1.44	1.33
25	B	617	BCR	C23-C22	-4.75	1.35	1.45
23	B	612	CLA	C3C-C2C	4.75	1.46	1.36
23	B	604	CLA	O2D-CGD	4.74	1.44	1.33
23	b	615	CLA	C1D-ND	4.73	1.43	1.37
23	B	609	CLA	O2D-CGD	4.73	1.44	1.33
23	A	406[A]	CLA	O2D-CGD	4.73	1.44	1.33
23	b	608	CLA	O2D-CGD	4.72	1.44	1.33
23	B	603	CLA	O2D-CGD	4.72	1.44	1.33
25	D	404	BCR	C23-C22	-4.72	1.35	1.45
23	d	402[A]	CLA	CHC-C1C	4.72	1.47	1.35
25	T	101	BCR	C23-C22	-4.72	1.35	1.45
23	B	615	CLA	O2D-CGD	4.71	1.44	1.33
23	B	608	CLA	C1D-ND	4.71	1.43	1.37
23	c	511	CLA	O2D-CGD	4.70	1.44	1.33
23	A	405[B]	CLA	C1D-ND	4.70	1.43	1.37
23	d	402[B]	CLA	CHC-C1C	4.70	1.47	1.35
23	b	614	CLA	C1D-ND	4.70	1.43	1.37
23	A	408	CLA	CHC-C1C	4.70	1.47	1.35
25	b	619	BCR	C23-C22	-4.70	1.35	1.45
23	b	614	CLA	O2D-CGD	4.70	1.44	1.33
23	C	510	CLA	C1D-ND	4.69	1.43	1.37
23	b	605	CLA	CHC-C1C	4.68	1.47	1.35
23	b	616	CLA	O2D-CGD	4.68	1.44	1.33
23	d	402[B]	CLA	O2D-CGD	4.68	1.44	1.33
33	C	521	LMG	O7-C10	4.68	1.47	1.34
23	C	507	CLA	CHC-C1C	4.68	1.47	1.35
23	B	609	CLA	CHD-C1D	4.66	1.47	1.38
23	b	602	CLA	CHD-C1D	4.66	1.47	1.38
25	A	409	BCR	C23-C22	-4.65	1.35	1.45
23	a	406[A]	CLA	O2D-CGD	4.65	1.44	1.33
23	b	612	CLA	CHC-C1C	4.64	1.46	1.35
26	a	411	SQD	O48-C23	4.64	1.46	1.33
23	a	408	CLA	O2D-CGD	4.64	1.44	1.33
25	C	516	BCR	C23-C22	-4.64	1.36	1.45
23	B	615	CLA	C1D-ND	4.63	1.43	1.37
23	b	615	CLA	O2D-CGD	4.63	1.44	1.33
23	C	503	CLA	CHC-C1C	4.62	1.46	1.35
23	C	504	CLA	C1D-ND	4.62	1.43	1.37
40	V	201	HEC	C3C-C2C	-4.62	1.35	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	D	402[B]	CLA	C1D-ND	4.61	1.43	1.37
23	C	506	CLA	O2D-CGD	4.61	1.44	1.33
23	c	502	CLA	CHC-C1C	4.60	1.46	1.35
23	b	602	CLA	C1D-ND	4.60	1.43	1.37
24	A	407[B]	PHO	OBD-CAD	4.60	1.28	1.22
23	b	609	CLA	C1D-ND	4.60	1.43	1.37
23	C	511	CLA	O2D-CGD	4.59	1.44	1.33
23	d	402[A]	CLA	O2D-CGD	4.59	1.44	1.33
25	t	102	BCR	C23-C22	-4.58	1.36	1.45
23	a	405[A]	CLA	C3B-C2B	4.58	1.46	1.40
33	C	521	LMG	O8-C28	4.58	1.46	1.33
32	E	101[A]	LHG	O8-C23	4.57	1.46	1.33
26	f	102	SQD	O47-C7	4.57	1.47	1.34
25	y	101	BCR	C23-C22	-4.56	1.36	1.45
23	B	616	CLA	O2D-CGD	4.55	1.44	1.33
23	C	507	CLA	CHD-C1D	4.55	1.47	1.38
23	A	405[A]	CLA	C1D-ND	4.55	1.43	1.37
23	C	505	CLA	C1D-ND	4.54	1.43	1.37
23	c	502	CLA	C1D-ND	4.54	1.43	1.37
25	b	617	BCR	C23-C22	-4.53	1.36	1.45
26	B	620	SQD	O47-C7	4.53	1.47	1.34
23	C	503	CLA	CHD-C1D	4.53	1.47	1.38
23	c	513	CLA	CHD-C1D	4.52	1.47	1.38
23	c	502	CLA	O2D-CGD	4.52	1.44	1.33
23	c	512	CLA	O2D-CGD	4.51	1.44	1.33
23	C	507	CLA	C1D-ND	4.51	1.43	1.37
23	B	614	CLA	O2D-CGD	4.51	1.44	1.33
32	a	420[A]	LHG	O8-C23	4.50	1.46	1.33
23	b	614	CLA	CHD-C1D	4.50	1.47	1.38
25	c	515	BCR	C23-C22	-4.50	1.36	1.45
23	b	604	CLA	O2D-CGD	4.50	1.44	1.33
23	c	507	CLA	CHD-C1D	4.49	1.47	1.38
23	c	513	CLA	O2A-CGA	4.49	1.46	1.33
23	b	606	CLA	O2D-CGD	4.49	1.44	1.33
25	h	101	BCR	C23-C22	-4.49	1.36	1.45
23	C	513	CLA	O2D-CGD	4.49	1.44	1.33
23	A	406[A]	CLA	C3B-C2B	4.48	1.46	1.40
23	C	509	CLA	OBD-CAD	4.48	1.30	1.22
25	c	514	BCR	C23-C22	-4.48	1.36	1.45
23	b	604	CLA	CHD-C1D	4.48	1.47	1.38
23	a	406[A]	CLA	C1D-ND	4.48	1.43	1.37
23	b	607	CLA	CHD-C1D	4.48	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	612	CLA	O2D-CGD	4.47	1.44	1.33
23	D	402[B]	CLA	O2A-CGA	4.47	1.46	1.33
23	D	403	CLA	CHD-C1D	4.47	1.47	1.38
23	C	512	CLA	C3C-C2C	4.46	1.46	1.36
23	C	504	CLA	O2D-CGD	4.46	1.44	1.33
32	E	101[B]	LHG	O8-C23	4.46	1.46	1.33
23	B	610	CLA	OBD-CAD	4.45	1.30	1.22
23	c	505	CLA	O2D-CGD	4.45	1.44	1.33
23	c	512	CLA	CHD-C1D	4.43	1.47	1.38
33	z	101	LMG	O8-C28	4.42	1.46	1.33
25	Y	101	BCR	C23-C22	-4.42	1.36	1.45
23	b	612	CLA	C1D-ND	4.42	1.43	1.37
23	a	406[B]	CLA	C1D-ND	4.42	1.43	1.37
23	C	514	CLA	O2A-CGA	4.42	1.46	1.33
23	C	512	CLA	C1D-ND	4.41	1.43	1.37
23	b	610	CLA	CHD-C1D	4.40	1.46	1.38
23	b	601	CLA	CHD-C1D	4.40	1.46	1.38
23	B	608	CLA	CHC-C1C	4.39	1.46	1.35
23	a	404[A]	CLA	O2D-CGD	4.38	1.43	1.33
26	A	412	SQD	O48-C23	4.38	1.46	1.33
23	A	408	CLA	O2A-CGA	4.38	1.46	1.33
23	d	403	CLA	O2D-CGD	4.36	1.43	1.33
24	a	407[B]	PHO	OBD-CAD	4.36	1.28	1.22
32	a	420[B]	LHG	O8-C23	4.35	1.46	1.33
25	b	618	BCR	C23-C22	-4.35	1.36	1.45
23	d	403	CLA	C3D-C2D	4.35	1.51	1.39
23	b	602	CLA	CHD-C4C	4.35	1.49	1.39
23	c	512	CLA	O2A-CGA	4.35	1.46	1.33
23	b	611	CLA	O2D-CGD	4.34	1.43	1.33
23	a	408	CLA	O2A-CGA	4.34	1.46	1.33
23	C	510	CLA	CHD-C1D	4.34	1.46	1.38
26	b	620	SQD	O47-C7	4.34	1.46	1.34
23	d	403	CLA	O2A-CGA	4.33	1.46	1.33
25	a	409	BCR	C23-C22	-4.33	1.36	1.45
24	A	416[A]	PHO	CHA-CBD	-4.32	1.47	1.52
23	C	503	CLA	C3D-C2D	4.32	1.50	1.39
23	d	402[B]	CLA	C1D-ND	4.32	1.43	1.37
23	a	404[B]	CLA	CHD-C1D	4.32	1.46	1.38
23	C	508	CLA	O2D-CGD	4.32	1.43	1.33
23	d	402[B]	CLA	O2A-CGA	4.31	1.45	1.33
23	c	509	CLA	CHC-C1C	4.31	1.46	1.35
26	A	412	SQD	O47-C7	4.31	1.46	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	613	CLA	CHD-C1D	4.31	1.46	1.38
23	a	405[A]	CLA	C3D-C2D	4.30	1.50	1.39
23	A	404[B]	CLA	CHD-C1D	4.30	1.46	1.38
26	b	620	SQD	O48-C23	4.30	1.45	1.33
23	C	514	CLA	CHD-C1D	4.29	1.46	1.38
23	C	511	CLA	CHD-C4C	4.29	1.49	1.39
32	a	420[A]	LHG	O7-C7	4.28	1.46	1.34
23	c	505	CLA	C1D-ND	4.27	1.43	1.37
26	f	102	SQD	O48-C23	4.26	1.45	1.33
23	b	611	CLA	O2A-CGA	4.26	1.45	1.33
33	Z	101	LMG	O7-C10	4.25	1.46	1.34
23	D	402[A]	CLA	C1D-ND	4.25	1.43	1.37
23	A	406[B]	CLA	CHD-C1D	4.24	1.46	1.38
23	B	607	CLA	O2D-CGD	4.24	1.43	1.33
23	c	504	CLA	C3D-C2D	4.24	1.50	1.39
23	D	402[B]	CLA	CHD-C1D	4.24	1.46	1.38
23	B	605	CLA	C3B-C2B	4.24	1.46	1.40
23	c	507	CLA	O2A-CGA	4.23	1.45	1.33
23	c	501	CLA	CHD-C1D	4.23	1.46	1.38
23	C	509	CLA	C3D-C2D	4.23	1.50	1.39
23	c	511	CLA	CHD-C1D	4.23	1.46	1.38
25	H	101	BCR	C23-C22	-4.23	1.36	1.45
23	b	608	CLA	CHD-C1D	4.22	1.46	1.38
32	E	101[A]	LHG	O7-C7	4.22	1.46	1.34
23	B	615	CLA	O2A-CGA	4.21	1.45	1.33
23	a	405[B]	CLA	C3D-C2D	4.21	1.50	1.39
23	c	503	CLA	O2A-CGA	4.20	1.45	1.33
23	b	601	CLA	C3D-C2D	4.19	1.50	1.39
32	d	407[A]	LHG	O8-C23	4.19	1.45	1.33
33	B	621	LMG	O8-C28	4.19	1.45	1.33
23	c	503	CLA	CHD-C4C	4.19	1.48	1.39
23	D	402[A]	CLA	CHD-C1D	4.19	1.46	1.38
32	E	101[B]	LHG	O7-C7	4.19	1.46	1.34
26	B	620	SQD	O48-C23	4.18	1.45	1.33
33	a	416	LMG	O8-C28	4.18	1.45	1.33
35	c	518	DGD	O1G-C1A	4.18	1.45	1.33
23	A	408	CLA	CHD-C1D	4.18	1.46	1.38
23	D	402[A]	CLA	O2A-CGA	4.18	1.45	1.33
33	C	520	LMG	O8-C28	4.17	1.45	1.33
23	C	508	CLA	C1D-ND	4.17	1.42	1.37
23	C	506	CLA	CHD-C1D	4.17	1.46	1.38
23	a	406[B]	CLA	O2A-CGA	4.17	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	c	520	LMG	O8-C28	4.17	1.45	1.33
32	a	420[B]	LHG	O7-C7	4.17	1.46	1.34
23	c	506	CLA	O2A-CGA	4.17	1.45	1.33
23	A	404[B]	CLA	CHD-C4C	4.16	1.48	1.39
23	C	502	CLA	CHD-C1D	4.16	1.46	1.38
32	d	407[B]	LHG	O8-C23	4.16	1.45	1.33
26	F	103	SQD	O48-C23	4.16	1.45	1.33
33	m	101	LMG	O8-C28	4.16	1.45	1.33
23	B	609	CLA	O2A-CGA	4.16	1.45	1.33
23	B	610	CLA	C3D-C2D	4.16	1.50	1.39
23	B	608	CLA	C3D-C2D	4.15	1.50	1.39
23	c	508	CLA	CHD-C1D	4.15	1.46	1.38
33	c	519	LMG	O7-C10	4.15	1.46	1.34
33	C	520	LMG	O7-C10	4.15	1.46	1.34
23	c	511	CLA	O2A-CGA	4.15	1.45	1.33
23	b	603	CLA	C1D-ND	4.14	1.42	1.37
26	a	410[B]	SQD	O47-C7	4.14	1.46	1.34
23	C	512	CLA	CHD-C1D	4.14	1.46	1.38
23	c	505	CLA	CHD-C1D	4.14	1.46	1.38
23	b	604	CLA	CHD-C4C	4.13	1.48	1.39
23	a	405[B]	CLA	O2A-CGA	4.13	1.45	1.33
23	d	403	CLA	CHD-C1D	4.13	1.46	1.38
35	C	517[A]	DGD	O2G-C1B	4.13	1.46	1.34
24	A	407[A]	PHO	OBD-CAD	4.13	1.28	1.22
23	A	405[B]	CLA	O2A-CGA	4.12	1.45	1.33
23	C	507	CLA	O2A-CGA	4.12	1.45	1.33
23	c	509	CLA	CHD-C1D	4.12	1.46	1.38
23	a	405[A]	CLA	O2A-CGA	4.12	1.45	1.33
23	b	616	CLA	CHD-C1D	4.12	1.46	1.38
23	a	404[A]	CLA	CHD-C1D	4.11	1.46	1.38
23	A	406[A]	CLA	CHD-C1D	4.10	1.46	1.38
23	A	405[A]	CLA	C3D-C2D	4.10	1.50	1.39
23	B	602	CLA	CHD-C4C	4.10	1.48	1.39
23	c	508	CLA	C3D-C2D	4.10	1.50	1.39
23	a	404[A]	CLA	CHD-C4C	4.10	1.48	1.39
23	c	507	CLA	CHD-C4C	4.10	1.48	1.39
23	c	506	CLA	CHD-C1D	4.09	1.46	1.38
23	C	512	CLA	O2A-CGA	4.09	1.45	1.33
23	D	403	CLA	C3D-C2D	4.09	1.50	1.39
23	c	509	CLA	CHD-C4C	4.09	1.48	1.39
23	c	508	CLA	O2A-CGA	4.09	1.45	1.33
23	A	406[A]	CLA	C1D-ND	4.09	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	502	CLA	C3D-C2D	4.09	1.50	1.39
23	A	405[B]	CLA	CHD-C1D	4.09	1.46	1.38
23	B	602	CLA	CHD-C1D	4.08	1.46	1.38
23	b	606	CLA	CHD-C1D	4.08	1.46	1.38
23	C	513	CLA	CHD-C1D	4.08	1.46	1.38
33	z	101	LMG	O7-C10	4.08	1.45	1.34
23	c	513	CLA	CHD-C4C	4.07	1.48	1.39
23	c	502	CLA	CHD-C1D	4.07	1.46	1.38
23	A	405[A]	CLA	O2A-CGA	4.07	1.45	1.33
23	a	404[B]	CLA	CHD-C4C	4.07	1.48	1.39
35	C	517[B]	DGD	O2G-C1B	4.07	1.45	1.34
32	D	407[B]	LHG	O7-C7	4.07	1.45	1.34
23	b	614	CLA	C3D-C2D	4.07	1.50	1.39
23	B	612	CLA	C1B-NB	-4.06	1.31	1.35
23	B	611	CLA	C1C-C2C	4.06	1.52	1.44
23	a	405[B]	CLA	CHD-C1D	4.06	1.46	1.38
23	b	608	CLA	OBD-CAD	4.06	1.29	1.22
23	B	606	CLA	CHD-C1D	4.06	1.46	1.38
23	B	604	CLA	C1D-ND	4.06	1.42	1.37
35	C	519	DGD	O1G-C1A	4.06	1.45	1.33
34	B	624	HTG	C1'-S1	-4.05	1.76	1.81
23	C	504	CLA	CHD-C4C	4.05	1.48	1.39
33	a	416	LMG	O7-C10	4.05	1.45	1.34
23	C	509	CLA	O2A-CGA	4.05	1.45	1.33
23	b	612	CLA	CHD-C1D	4.05	1.46	1.38
26	a	410[A]	SQD	O47-C7	4.05	1.45	1.34
23	b	607	CLA	O2D-CGD	4.05	1.43	1.33
23	B	607	CLA	OBD-CAD	4.05	1.29	1.22
23	C	503	CLA	O2A-CGA	4.05	1.45	1.33
23	b	609	CLA	CHD-C1D	4.04	1.46	1.38
23	b	603	CLA	CHD-C1D	4.04	1.46	1.38
23	c	503	CLA	O2D-CGD	4.04	1.43	1.33
23	C	513	CLA	C3D-C2D	4.03	1.50	1.39
23	B	604	CLA	CHD-C4C	4.03	1.48	1.39
23	b	610	CLA	C1D-ND	4.03	1.42	1.37
32	d	413[B]	LHG	O8-C23	4.03	1.45	1.33
23	b	615	CLA	O2A-CGA	4.02	1.45	1.33
23	B	616	CLA	C1D-ND	4.02	1.42	1.37
23	C	514	CLA	C3D-C2D	4.02	1.50	1.39
23	d	402[B]	CLA	CHD-C1D	4.02	1.46	1.38
33	C	501	LMG	O7-C10	4.02	1.45	1.34
24	A	416[A]	PHO	O2A-CGA	4.02	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	502	CLA	CHD-C4C	4.01	1.48	1.39
23	B	614	CLA	CHD-C4C	4.01	1.48	1.39
23	D	402[B]	CLA	CHD-C4C	4.01	1.48	1.39
23	C	508	CLA	O2A-CGA	4.01	1.45	1.33
35	h	102	DGD	O2G-C1B	4.01	1.45	1.34
23	A	406[B]	CLA	C3D-C2D	4.01	1.50	1.39
23	c	501	CLA	C3D-C2D	4.01	1.50	1.39
35	c	517[B]	DGD	O1G-C1A	4.00	1.45	1.33
23	B	608	CLA	O2D-CGD	4.00	1.43	1.33
35	c	517[A]	DGD	O1G-C1A	4.00	1.45	1.33
32	L	101[B]	LHG	O8-C23	4.00	1.45	1.33
23	B	613	CLA	OBD-CAD	4.00	1.29	1.22
23	B	612	CLA	CHD-C1D	3.99	1.46	1.38
23	b	616	CLA	O2A-CGA	3.99	1.45	1.33
26	a	410[B]	SQD	O48-C23	3.99	1.45	1.33
23	B	609	CLA	C3D-C2D	3.99	1.50	1.39
23	c	501	CLA	O2D-CGD	3.98	1.42	1.33
23	B	603	CLA	C3D-C2D	3.98	1.50	1.39
23	C	513	CLA	O2A-CGA	3.98	1.45	1.33
23	b	607	CLA	C1D-ND	3.98	1.42	1.37
33	C	501	LMG	O8-C28	3.98	1.45	1.33
26	A	410[B]	SQD	O48-C23	3.97	1.45	1.33
24	A	407[B]	PHO	O2A-CGA	3.97	1.45	1.33
23	B	602	CLA	C3D-C2D	3.97	1.50	1.39
23	b	609	CLA	OBD-CAD	3.97	1.29	1.22
23	A	405[A]	CLA	CHD-C1D	3.97	1.46	1.38
33	c	519	LMG	O8-C28	3.97	1.44	1.33
26	a	410[A]	SQD	O48-C23	3.97	1.44	1.33
23	B	615	CLA	OBD-CAD	3.97	1.29	1.22
23	b	601	CLA	CHD-C4C	3.97	1.48	1.39
35	c	516[B]	DGD	O2G-C1B	3.96	1.45	1.34
23	c	501	CLA	CHD-C4C	3.96	1.48	1.39
23	a	406[A]	CLA	O2A-CGA	3.96	1.44	1.33
23	a	406[A]	CLA	C3D-C2D	3.96	1.49	1.39
23	d	402[A]	CLA	O2A-CGA	3.96	1.44	1.33
24	a	415[B]	PHO	C3C-C2C	3.96	1.49	1.37
23	C	508	CLA	CHD-C1D	3.95	1.46	1.38
23	D	403	CLA	CHD-C4C	3.95	1.48	1.39
32	b	629[B]	LHG	O7-C7	3.95	1.45	1.34
24	A	407[B]	PHO	C3C-C2C	3.95	1.49	1.37
23	A	406[A]	CLA	OBD-CAD	3.95	1.29	1.22
23	A	406[A]	CLA	C3D-C2D	3.95	1.49	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	d	406[B]	LHG	O7-C7	3.94	1.45	1.34
23	b	610	CLA	OBD-CAD	3.94	1.29	1.22
23	c	512	CLA	CHD-C4C	3.94	1.48	1.39
23	c	506	CLA	CHD-C4C	3.94	1.48	1.39
23	c	506	CLA	C3D-C2D	3.94	1.49	1.39
23	C	502	CLA	O2D-CGD	3.93	1.42	1.33
23	B	601	CLA	CHD-C1D	3.93	1.46	1.38
23	b	611	CLA	CHD-C1D	3.93	1.46	1.38
23	b	612	CLA	C3D-C2D	3.93	1.49	1.39
32	b	629[B]	LHG	O8-C23	3.93	1.44	1.33
23	d	402[A]	CLA	CHD-C1D	3.93	1.46	1.38
23	b	605	CLA	CHD-C1D	3.92	1.46	1.38
32	D	406[B]	LHG	O7-C7	3.92	1.45	1.34
23	b	615	CLA	C3D-C2D	3.92	1.49	1.39
23	c	508	CLA	CHD-C4C	3.92	1.48	1.39
23	C	510	CLA	C3D-C2D	3.92	1.49	1.39
32	L	101[A]	LHG	O8-C23	3.92	1.44	1.33
23	b	605	CLA	CHD-C4C	3.91	1.48	1.39
35	C	518[B]	DGD	O2G-C1B	3.91	1.45	1.34
35	C	517[B]	DGD	O1G-C1A	3.91	1.44	1.33
23	b	602	CLA	C3D-C2D	3.91	1.49	1.39
32	D	407[A]	LHG	O8-C23	3.91	1.44	1.33
23	b	609	CLA	O2A-CGA	3.90	1.44	1.33
35	c	516[B]	DGD	O1G-C1A	3.90	1.44	1.33
24	A	416[B]	PHO	C3C-C2C	3.90	1.49	1.37
23	B	616	CLA	O2A-CGA	3.90	1.44	1.33
32	d	406[A]	LHG	O7-C7	3.90	1.45	1.34
23	C	506	CLA	CHD-C4C	3.90	1.48	1.39
23	B	613	CLA	C3D-C2D	3.90	1.49	1.39
23	a	406[B]	CLA	C3D-C2D	3.90	1.49	1.39
23	c	502	CLA	O2A-CGA	3.89	1.44	1.33
23	a	405[B]	CLA	CHD-C4C	3.89	1.48	1.39
23	a	406[B]	CLA	CHD-C1D	3.89	1.45	1.38
23	C	510	CLA	OBD-CAD	3.89	1.29	1.22
23	b	615	CLA	OBD-CAD	3.89	1.29	1.22
32	D	407[A]	LHG	O7-C7	3.89	1.45	1.34
23	C	512	CLA	C3D-C2D	3.89	1.49	1.39
24	a	415[A]	PHO	C3C-C2C	3.89	1.49	1.37
23	B	608	CLA	CHD-C4C	3.89	1.48	1.39
23	a	404[B]	CLA	O2A-CGA	3.89	1.44	1.33
23	c	512	CLA	C3D-C2D	3.89	1.49	1.39
24	A	416[B]	PHO	O2A-CGA	3.88	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	611	CLA	C1D-ND	3.88	1.42	1.37
23	C	514	CLA	CHD-C4C	3.88	1.48	1.39
23	C	504	CLA	CHD-C1D	3.88	1.45	1.38
23	c	501	CLA	O2A-CGA	3.87	1.44	1.33
24	a	407[A]	PHO	OBD-CAD	3.87	1.27	1.22
23	B	607	CLA	CHD-C1D	3.87	1.45	1.38
23	B	610	CLA	CHD-C1D	3.87	1.45	1.38
23	B	615	CLA	CHD-C4C	3.87	1.48	1.39
23	B	609	CLA	CHD-C4C	3.87	1.48	1.39
34	b	623	HTG	C1'-S1	-3.87	1.76	1.81
23	B	612	CLA	O2D-CGD	3.86	1.42	1.33
32	d	407[B]	LHG	O7-C7	3.86	1.45	1.34
23	C	507	CLA	CHD-C4C	3.86	1.48	1.39
23	B	616	CLA	C3D-C2D	3.86	1.49	1.39
23	b	615	CLA	CHD-C1D	3.86	1.45	1.38
23	A	406[B]	CLA	O2A-CGA	3.86	1.44	1.33
23	c	507	CLA	C3D-C2D	3.86	1.49	1.39
23	b	608	CLA	O2A-CGA	3.85	1.44	1.33
32	L	101[B]	LHG	O7-C7	3.85	1.45	1.34
24	a	415[A]	PHO	O2A-CGA	3.84	1.44	1.33
35	C	518[A]	DGD	O2G-C1B	3.84	1.45	1.34
23	A	405[B]	CLA	C3D-C2D	3.84	1.49	1.39
23	a	405[A]	CLA	OBD-CAD	3.84	1.29	1.22
23	B	611	CLA	OBD-CAD	3.84	1.29	1.22
23	c	505	CLA	OBD-CAD	3.83	1.29	1.22
32	D	407[B]	LHG	O8-C23	3.83	1.44	1.33
23	c	511	CLA	CHD-C4C	3.83	1.48	1.39
33	d	411	LMG	O8-C28	3.83	1.44	1.33
35	h	102	DGD	O1G-C1A	3.82	1.44	1.33
23	A	406[B]	CLA	CHD-C4C	3.82	1.48	1.39
23	b	608	CLA	C3D-C2D	3.82	1.49	1.39
23	B	608	CLA	CHD-C1D	3.82	1.45	1.38
25	B	618	BCR	C23-C22	-3.81	1.37	1.45
23	B	616	CLA	CHD-C1D	3.81	1.45	1.38
35	C	518[B]	DGD	O1G-C1A	3.81	1.44	1.33
35	c	516[A]	DGD	O2G-C1B	3.81	1.45	1.34
23	c	505	CLA	CHD-C4C	3.81	1.47	1.39
23	c	510	CLA	C3D-C2D	3.81	1.49	1.39
23	A	404[A]	CLA	C3D-C2D	3.81	1.49	1.39
24	a	415[B]	PHO	O2A-CGA	3.80	1.44	1.33
23	b	608	CLA	C1D-ND	3.80	1.42	1.37
23	C	505	CLA	C3D-C2D	3.80	1.49	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	a	406[B]	CLA	OBD-CAD	3.80	1.29	1.22
32	d	413[B]	LHG	O7-C7	3.79	1.45	1.34
23	b	610	CLA	C3D-C2D	3.79	1.49	1.39
23	b	612	CLA	OBD-CAD	3.79	1.29	1.22
35	C	518[A]	DGD	O1G-C1A	3.79	1.44	1.33
23	C	512	CLA	CHD-C4C	3.79	1.47	1.39
23	A	405[A]	CLA	CHD-C4C	3.79	1.47	1.39
23	B	604	CLA	OBD-CAD	3.79	1.29	1.22
23	B	614	CLA	O2A-CGA	3.79	1.44	1.33
23	a	406[A]	CLA	CHD-C4C	3.79	1.47	1.39
23	c	504	CLA	CHD-C1D	3.79	1.45	1.38
24	A	416[A]	PHO	C3C-C2C	3.78	1.48	1.37
26	a	411	SQD	O47-C7	3.78	1.45	1.34
24	A	407[A]	PHO	C3C-C2C	3.78	1.48	1.37
35	c	516[A]	DGD	O1G-C1A	3.78	1.44	1.33
23	c	513	CLA	C3D-C2D	3.78	1.49	1.39
23	C	502	CLA	CHD-C4C	3.78	1.47	1.39
23	C	506	CLA	O2A-CGA	3.78	1.44	1.33
23	b	604	CLA	C3D-C2D	3.78	1.49	1.39
35	c	517[B]	DGD	O2G-C1B	3.78	1.45	1.34
23	c	510	CLA	O2A-CGA	3.77	1.44	1.33
24	A	407[A]	PHO	O2A-CGA	3.77	1.44	1.33
23	b	607	CLA	C3D-C2D	3.77	1.49	1.39
23	B	607	CLA	C1D-ND	3.76	1.42	1.37
32	A	419[B]	LHG	O7-C7	3.76	1.44	1.34
33	m	101	LMG	O7-C10	3.76	1.44	1.34
33	d	411	LMG	O7-C10	3.76	1.44	1.34
26	A	410[A]	SQD	O48-C23	3.76	1.44	1.33
23	B	611	CLA	O2A-CGA	3.75	1.44	1.33
33	B	621	LMG	O7-C10	3.75	1.44	1.34
23	B	612	CLA	C1D-ND	3.75	1.42	1.37
23	c	509	CLA	C3D-C2D	3.75	1.49	1.39
33	D	411	LMG	O7-C10	3.74	1.44	1.34
23	C	502	CLA	O2A-CGA	3.74	1.44	1.33
23	C	505	CLA	CHD-C1D	3.74	1.45	1.38
23	a	404[A]	CLA	OBD-CAD	3.74	1.28	1.22
23	B	605	CLA	CHD-C1D	3.74	1.45	1.38
32	A	419[B]	LHG	O8-C23	3.74	1.44	1.33
23	A	406[A]	CLA	O2A-CGA	3.73	1.44	1.33
23	a	406[B]	CLA	CHD-C4C	3.73	1.47	1.39
23	A	408	CLA	CHD-C4C	3.73	1.47	1.39
23	a	405[B]	CLA	OBD-CAD	3.72	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	513	CLA	CHD-C4C	3.72	1.47	1.39
23	c	509	CLA	O2A-CGA	3.71	1.44	1.33
23	A	408	CLA	C1D-ND	3.71	1.42	1.37
23	b	603	CLA	C3D-C2D	3.71	1.49	1.39
23	A	405[B]	CLA	CHD-C4C	3.71	1.47	1.39
23	C	511	CLA	O2A-CGA	3.71	1.44	1.33
23	c	512	CLA	OBD-CAD	3.70	1.28	1.22
23	A	406[A]	CLA	CHD-C4C	3.70	1.47	1.39
23	c	508	CLA	OBD-CAD	3.70	1.28	1.22
23	c	511	CLA	C3D-C2D	3.70	1.49	1.39
23	C	507	CLA	C3D-C2D	3.70	1.49	1.39
23	B	605	CLA	O2A-CGA	3.70	1.44	1.33
23	B	610	CLA	CHD-C4C	3.70	1.47	1.39
23	c	510	CLA	CHD-C4C	3.70	1.47	1.39
23	A	404[A]	CLA	CHD-C1D	3.70	1.45	1.38
23	d	402[B]	CLA	CHD-C4C	3.69	1.47	1.39
23	A	408	CLA	C3D-C2D	3.69	1.49	1.39
23	B	603	CLA	O2A-CGA	3.69	1.44	1.33
23	C	504	CLA	C3D-C2D	3.69	1.49	1.39
26	A	410[B]	SQD	O47-C7	3.69	1.44	1.34
23	b	616	CLA	C3D-C2D	3.69	1.49	1.39
32	D	406[B]	LHG	O8-C23	3.68	1.44	1.33
24	a	407[B]	PHO	O2A-CGA	3.68	1.44	1.33
23	b	608	CLA	CHD-C4C	3.68	1.47	1.39
32	L	101[A]	LHG	O7-C7	3.68	1.44	1.34
23	B	602	CLA	OBD-CAD	3.68	1.28	1.22
23	D	403	CLA	OBD-CAD	3.68	1.28	1.22
23	b	609	CLA	CHD-C4C	3.68	1.47	1.39
26	A	410[A]	SQD	O47-C7	3.68	1.44	1.34
23	B	601	CLA	C3D-C2D	3.68	1.49	1.39
23	a	404[B]	CLA	OBD-CAD	3.68	1.28	1.22
23	b	606	CLA	C3D-C2D	3.68	1.49	1.39
23	B	602	CLA	O2A-CGA	3.68	1.44	1.33
32	d	407[A]	LHG	O7-C7	3.68	1.44	1.34
23	c	507	CLA	OBD-CAD	3.67	1.28	1.22
23	a	404[A]	CLA	C3D-C2D	3.67	1.49	1.39
23	A	404[A]	CLA	CHD-C4C	3.67	1.47	1.39
23	B	605	CLA	CHD-C4C	3.66	1.47	1.39
34	b	622	HTG	C1'-S1	-3.66	1.76	1.81
23	C	510	CLA	O2A-CGA	3.66	1.44	1.33
32	D	406[A]	LHG	O7-C7	3.66	1.44	1.34
23	C	509	CLA	CHD-C4C	3.66	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	602	CLA	O2A-CGA	3.66	1.44	1.33
23	B	611	CLA	CHD-C4C	3.65	1.47	1.39
23	b	612	CLA	O2A-CGA	3.65	1.44	1.33
23	b	614	CLA	O2A-CGA	3.65	1.44	1.33
35	C	517[A]	DGD	O1G-C1A	3.65	1.44	1.33
23	a	405[A]	CLA	CHD-C1D	3.65	1.45	1.38
23	C	511	CLA	CHD-C1D	3.64	1.45	1.38
32	d	413[A]	LHG	O8-C23	3.64	1.44	1.33
23	D	402[A]	CLA	CHD-C4C	3.64	1.47	1.39
23	b	614	CLA	CHD-C4C	3.64	1.47	1.39
23	B	611	CLA	CHD-C1D	3.64	1.45	1.38
23	B	601	CLA	OBD-CAD	3.64	1.28	1.22
23	d	403	CLA	CHD-C4C	3.63	1.47	1.39
23	b	613	CLA	CHD-C1D	3.63	1.45	1.38
23	A	404[B]	CLA	C3D-C2D	3.63	1.49	1.39
23	B	611	CLA	C1B-NB	3.63	1.38	1.35
23	B	603	CLA	CHD-C1D	3.63	1.45	1.38
23	b	613	CLA	C3D-C2D	3.62	1.49	1.39
35	H	102	DGD	O1G-C1A	3.62	1.43	1.33
23	C	510	CLA	CHD-C4C	3.62	1.47	1.39
23	d	402[A]	CLA	C1D-ND	3.61	1.42	1.37
23	b	602	CLA	OBD-CAD	3.61	1.28	1.22
23	c	511	CLA	OBD-CAD	3.61	1.28	1.22
23	C	505	CLA	O2A-CGA	3.61	1.43	1.33
23	a	406[A]	CLA	CHD-C1D	3.61	1.45	1.38
23	b	613	CLA	O2A-CGA	3.61	1.43	1.33
23	b	616	CLA	CHD-C4C	3.61	1.47	1.39
23	d	402[A]	CLA	OBD-CAD	3.61	1.28	1.22
23	c	505	CLA	O2A-CGA	3.61	1.43	1.33
32	b	629[A]	LHG	O7-C7	3.60	1.44	1.34
23	d	402[B]	CLA	C3D-C2D	3.60	1.49	1.39
32	D	406[A]	LHG	O8-C23	3.60	1.43	1.33
23	B	609	CLA	OBD-CAD	3.60	1.28	1.22
23	b	609	CLA	C3D-C2D	3.60	1.49	1.39
23	d	402[A]	CLA	CHD-C4C	3.60	1.47	1.39
23	b	615	CLA	CHD-C4C	3.60	1.47	1.39
32	A	419[A]	LHG	O7-C7	3.60	1.44	1.34
23	C	509	CLA	CHD-C1D	3.59	1.45	1.38
23	a	408	CLA	CHD-C4C	3.59	1.47	1.39
23	c	505	CLA	C3D-C2D	3.59	1.48	1.39
34	o	301	HTG	C1'-S1	-3.59	1.76	1.81
23	C	507	CLA	OBD-CAD	3.59	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	504	CLA	O2A-CGA	3.58	1.43	1.33
32	d	406[A]	LHG	O8-C23	3.58	1.43	1.33
23	A	404[B]	CLA	O2A-CGA	3.57	1.43	1.33
23	D	402[B]	CLA	C3D-C2D	3.57	1.48	1.39
23	C	503	CLA	CHD-C4C	3.57	1.47	1.39
23	C	504	CLA	O2A-CGA	3.57	1.43	1.33
23	a	408	CLA	C1D-ND	3.57	1.42	1.37
23	A	405[B]	CLA	OBD-CAD	3.56	1.28	1.22
23	D	402[B]	CLA	OBD-CAD	3.56	1.28	1.22
23	B	607	CLA	CHD-C4C	3.56	1.47	1.39
23	B	601	CLA	CHD-C4C	3.55	1.47	1.39
23	B	612	CLA	C3D-C2D	3.55	1.48	1.39
23	B	603	CLA	CHD-C4C	3.55	1.47	1.39
23	D	402[A]	CLA	C3D-C2D	3.55	1.48	1.39
23	A	406[B]	CLA	OBD-CAD	3.54	1.28	1.22
23	C	502	CLA	C3D-C2D	3.54	1.48	1.39
23	B	606	CLA	CHD-C4C	3.54	1.47	1.39
35	c	517[A]	DGD	O2G-C1B	3.54	1.44	1.34
23	d	402[A]	CLA	C3D-C2D	3.53	1.48	1.39
23	b	610	CLA	CHD-C4C	3.53	1.47	1.39
23	b	604	CLA	OBD-CAD	3.53	1.28	1.22
23	b	614	CLA	OBD-CAD	3.53	1.28	1.22
23	b	606	CLA	CHD-C4C	3.53	1.47	1.39
24	a	407[A]	PHO	C3C-C2C	3.52	1.48	1.37
23	C	508	CLA	C3D-C2D	3.52	1.48	1.39
23	a	405[A]	CLA	CHD-C4C	3.52	1.47	1.39
23	c	502	CLA	OBD-CAD	3.52	1.28	1.22
23	B	604	CLA	O2A-CGA	3.52	1.43	1.33
35	C	519	DGD	O2G-C1B	3.51	1.44	1.34
23	C	513	CLA	OBD-CAD	3.51	1.28	1.22
32	d	406[B]	LHG	O8-C23	3.51	1.43	1.33
23	a	404[B]	CLA	C3D-C2D	3.51	1.48	1.39
32	d	413[A]	LHG	O7-C7	3.50	1.44	1.34
23	c	513	CLA	OBD-CAD	3.50	1.28	1.22
23	B	607	CLA	O2A-CGA	3.50	1.43	1.33
23	B	616	CLA	CHD-C4C	3.50	1.47	1.39
23	B	606	CLA	C3D-C2D	3.50	1.48	1.39
23	a	406[A]	CLA	OBD-CAD	3.50	1.28	1.22
32	A	419[A]	LHG	O8-C23	3.49	1.43	1.33
23	b	606	CLA	O2A-CGA	3.49	1.43	1.33
23	B	605	CLA	C3D-C2D	3.49	1.48	1.39
24	a	407[B]	PHO	C3C-C2C	3.49	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	509	CLA	OBD-CAD	3.48	1.28	1.22
23	C	511	CLA	C3D-C2D	3.48	1.48	1.39
23	c	510	CLA	CHD-C1D	3.48	1.45	1.38
23	D	403	CLA	O2A-CGA	3.48	1.43	1.33
38	f	101	HEM	C4D-ND	-3.47	1.34	1.40
23	C	505	CLA	CHD-C4C	3.46	1.47	1.39
23	B	610	CLA	O2A-CGA	3.46	1.43	1.33
23	d	402[B]	CLA	OBD-CAD	3.46	1.28	1.22
38	F	102	HEM	C4D-ND	-3.46	1.34	1.40
23	A	404[B]	CLA	OBD-CAD	3.45	1.28	1.22
23	c	504	CLA	CHD-C4C	3.45	1.47	1.39
33	D	411	LMG	O8-C28	3.45	1.43	1.33
23	C	506	CLA	C3D-C2D	3.44	1.48	1.39
23	B	614	CLA	C3D-C2D	3.44	1.48	1.39
23	C	503	CLA	OBD-CAD	3.44	1.28	1.22
23	b	601	CLA	OBD-CAD	3.43	1.28	1.22
24	A	416[B]	PHO	CHA-CBD	-3.43	1.48	1.52
23	C	504	CLA	OBD-CAD	3.43	1.28	1.22
23	C	514	CLA	OBD-CAD	3.43	1.28	1.22
23	c	501	CLA	OBD-CAD	3.41	1.28	1.22
23	C	511	CLA	OBD-CAD	3.41	1.28	1.22
23	a	408	CLA	CHD-C1D	3.41	1.45	1.38
32	b	629[A]	LHG	O8-C23	3.39	1.43	1.33
38	f	101	HEM	C1B-NB	-3.39	1.34	1.40
35	H	102	DGD	O2G-C1B	3.39	1.43	1.34
23	b	605	CLA	C3D-C2D	3.38	1.48	1.39
23	B	606	CLA	O2A-CGA	3.38	1.43	1.33
23	B	613	CLA	CHD-C4C	3.38	1.46	1.39
23	b	603	CLA	CHD-C4C	3.38	1.46	1.39
23	b	606	CLA	OBD-CAD	3.37	1.28	1.22
23	B	612	CLA	O2A-CGA	3.37	1.43	1.33
23	B	608	CLA	O2A-CGA	3.36	1.43	1.33
35	c	518	DGD	O2G-C1B	3.36	1.43	1.34
23	A	405[A]	CLA	OBD-CAD	3.36	1.28	1.22
23	b	604	CLA	O2A-CGA	3.36	1.43	1.33
23	b	613	CLA	CHD-C4C	3.35	1.46	1.39
24	a	407[A]	PHO	O2A-CGA	3.35	1.43	1.33
23	C	508	CLA	CHD-C4C	3.35	1.46	1.39
23	C	508	CLA	OBD-CAD	3.34	1.28	1.22
23	B	607	CLA	C3D-C2D	3.34	1.48	1.39
23	C	506	CLA	OBD-CAD	3.34	1.28	1.22
23	B	603	CLA	OBD-CAD	3.33	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	613	CLA	O2A-CGA	3.33	1.43	1.33
23	B	615	CLA	C3D-C2D	3.33	1.48	1.39
23	A	404[A]	CLA	OBD-CAD	3.33	1.28	1.22
23	b	611	CLA	C3D-C2D	3.31	1.48	1.39
23	B	614	CLA	C4B-NB	-3.31	1.32	1.35
23	b	605	CLA	OBD-CAD	3.31	1.28	1.22
23	b	616	CLA	OBD-CAD	3.30	1.28	1.22
23	B	611	CLA	C3D-C2D	3.30	1.48	1.39
23	b	607	CLA	CHD-C4C	3.30	1.46	1.39
23	b	603	CLA	OBD-CAD	3.29	1.28	1.22
23	b	612	CLA	CHD-C4C	3.29	1.46	1.39
23	A	404[A]	CLA	O2A-CGA	3.28	1.42	1.33
23	c	503	CLA	C3D-C2D	3.27	1.48	1.39
23	A	408	CLA	OBD-CAD	3.26	1.28	1.22
23	B	612	CLA	C1C-C2C	3.26	1.50	1.44
23	B	614	CLA	CHD-C1D	3.26	1.44	1.38
23	B	611	CLA	C4B-CHC	3.25	1.50	1.41
23	D	402[A]	CLA	OBD-CAD	3.24	1.28	1.22
38	F	102	HEM	C1B-NB	-3.23	1.34	1.40
23	b	611	CLA	CHD-C4C	3.23	1.46	1.39
23	c	506	CLA	OBD-CAD	3.22	1.28	1.22
23	b	603	CLA	O2A-CGA	3.21	1.42	1.33
23	c	501	CLA	C1C-C2C	3.20	1.50	1.44
34	d	410	HTG	C1'-S1	-3.20	1.77	1.81
23	B	612	CLA	CHD-C4C	3.20	1.46	1.39
23	B	611	CLA	C4B-NB	-3.19	1.32	1.35
23	c	504	CLA	OBD-CAD	3.19	1.28	1.22
23	a	404[A]	CLA	O2A-CGA	3.19	1.42	1.33
23	b	607	CLA	C1B-NB	-3.19	1.32	1.35
23	B	606	CLA	OBD-CAD	3.17	1.27	1.22
23	C	505	CLA	OBD-CAD	3.16	1.27	1.22
23	D	403	CLA	C1C-C2C	3.16	1.50	1.44
23	a	408	CLA	C3D-C2D	3.16	1.47	1.39
23	a	408	CLA	OBD-CAD	3.15	1.27	1.22
23	A	406[A]	CLA	C1B-NB	-3.09	1.32	1.35
23	d	403	CLA	OBD-CAD	3.08	1.27	1.22
23	B	602	CLA	C1C-C2C	3.08	1.50	1.44
23	B	614	CLA	OBD-CAD	3.06	1.27	1.22
23	b	605	CLA	O2A-CGA	3.06	1.42	1.33
23	b	610	CLA	O2A-CGA	3.06	1.42	1.33
23	B	605	CLA	C1C-C2C	3.06	1.50	1.44
23	B	613	CLA	C1C-C2C	3.06	1.50	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	513	CLA	C1C-C2C	3.05	1.50	1.44
23	B	604	CLA	C3D-C2D	3.04	1.47	1.39
23	b	602	CLA	C1C-C2C	3.03	1.50	1.44
23	b	604	CLA	C4D-CHA	3.03	1.49	1.38
23	c	504	CLA	C4C-C3C	3.01	1.50	1.45
34	b	625	HTG	C1-S1	-3.01	1.76	1.80
23	a	408	CLA	C1C-C2C	2.99	1.50	1.44
23	c	508	CLA	C1B-CHB	2.98	1.49	1.41
23	B	612	CLA	C1B-CHB	2.98	1.49	1.41
23	c	511	CLA	C1B-CHB	2.97	1.49	1.41
23	B	607	CLA	C4D-CHA	2.96	1.48	1.38
23	b	602	CLA	C4B-CHC	2.96	1.49	1.41
23	c	503	CLA	C1C-C2C	2.95	1.50	1.44
23	c	510	CLA	OBD-CAD	2.94	1.27	1.22
34	c	521	HTG	C1'-S1	-2.94	1.77	1.81
23	C	512	CLA	C4D-CHA	2.94	1.48	1.38
23	b	611	CLA	OBD-CAD	2.93	1.27	1.22
23	C	502	CLA	OBD-CAD	2.93	1.27	1.22
23	A	404[B]	CLA	C4C-C3C	2.92	1.50	1.45
23	c	505	CLA	C1C-C2C	2.92	1.50	1.44
23	c	510	CLA	C1B-CHB	2.91	1.49	1.41
23	c	509	CLA	C1B-NB	-2.91	1.32	1.35
23	a	406[A]	CLA	C1C-C2C	2.91	1.50	1.44
23	c	505	CLA	C4B-CHC	2.91	1.49	1.41
23	B	616	CLA	OBD-CAD	2.90	1.27	1.22
23	c	510	CLA	C1C-C2C	2.90	1.50	1.44
34	D	410	HTG	C1'-S1	-2.89	1.77	1.81
23	B	616	CLA	C4D-CHA	2.89	1.48	1.38
23	c	504	CLA	C1C-C2C	2.88	1.50	1.44
34	C	522	HTG	C1'-S1	-2.88	1.77	1.81
23	B	601	CLA	C1C-C2C	2.86	1.50	1.44
23	B	607	CLA	C1B-NB	-2.85	1.32	1.35
23	D	403	CLA	C4C-C3C	2.85	1.49	1.45
23	C	510	CLA	C1C-C2C	2.84	1.50	1.44
34	b	625	HTG	C1'-S1	-2.84	1.77	1.81
23	B	605	CLA	C4B-CHC	2.84	1.48	1.41
23	A	404[A]	CLA	C4C-C3C	2.84	1.49	1.45
23	b	611	CLA	C4C-C3C	2.84	1.49	1.45
23	B	606	CLA	C1C-C2C	2.84	1.50	1.44
23	b	607	CLA	C4C-C3C	2.84	1.49	1.45
23	C	508	CLA	C4D-CHA	2.83	1.48	1.38
23	B	615	CLA	C1C-C2C	2.82	1.50	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	507	CLA	C1C-C2C	2.82	1.50	1.44
23	c	503	CLA	OBD-CAD	2.82	1.27	1.22
23	c	508	CLA	C4D-CHA	2.82	1.48	1.38
23	c	510	CLA	C4D-CHA	2.82	1.48	1.38
23	D	403	CLA	C1B-CHB	2.81	1.48	1.41
29	A	414[A]	PL9	C6-C5	2.81	1.49	1.35
23	B	612	CLA	C4D-CHA	2.81	1.48	1.38
26	a	410[B]	SQD	C6-S	-2.80	1.67	1.77
23	d	402[A]	CLA	C4C-C3C	2.79	1.49	1.45
23	B	614	CLA	C4D-CHA	2.79	1.48	1.38
23	b	607	CLA	O2A-CGA	2.78	1.41	1.33
23	B	610	CLA	C4D-CHA	2.78	1.48	1.38
23	c	509	CLA	C4D-CHA	2.78	1.48	1.38
33	Z	101	LMG	O8-C28	2.77	1.47	1.33
23	c	503	CLA	C4B-CHC	2.77	1.48	1.41
23	C	509	CLA	C1B-CHB	2.77	1.48	1.41
23	a	405[A]	CLA	C1B-NB	-2.77	1.32	1.35
24	A	407[B]	PHO	CHA-CBD	-2.77	1.49	1.52
34	B	624	HTG	C1-S1	-2.77	1.76	1.80
23	C	507	CLA	C4C-C3C	2.77	1.49	1.45
23	b	609	CLA	C4D-CHA	2.76	1.48	1.38
24	A	407[A]	PHO	CBD-CGD	-2.76	1.48	1.52
26	A	410[B]	SQD	C6-S	-2.76	1.67	1.77
23	b	614	CLA	C4D-CHA	2.76	1.48	1.38
26	A	410[A]	SQD	C6-S	-2.76	1.67	1.77
23	B	602	CLA	C1B-CHB	2.75	1.48	1.41
23	C	512	CLA	C1B-CHB	2.75	1.48	1.41
23	c	512	CLA	C4B-CHC	2.75	1.48	1.41
23	b	613	CLA	C1B-NB	-2.75	1.32	1.35
23	b	612	CLA	C1B-CHB	2.75	1.48	1.41
23	c	511	CLA	C4D-CHA	2.75	1.48	1.38
23	B	608	CLA	C1B-CHB	2.75	1.48	1.41
23	C	505	CLA	C4D-CHA	2.74	1.48	1.38
23	c	507	CLA	C4D-CHA	2.74	1.48	1.38
23	b	609	CLA	C1B-CHB	2.74	1.48	1.41
24	a	415[B]	PHO	C3A-C2A	-2.74	1.52	1.54
29	a	413[A]	PL9	C6-C5	2.74	1.49	1.35
23	C	506	CLA	C4D-CHA	2.74	1.48	1.38
23	B	611	CLA	C1B-CHB	2.74	1.48	1.41
40	V	201	HEC	C3C-C4C	2.74	1.48	1.43
29	a	413[B]	PL9	C6-C5	2.74	1.49	1.35
23	B	608	CLA	OBD-CAD	2.74	1.27	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	a	410[A]	SQD	C6-S	-2.73	1.67	1.77
38	F	102	HEM	FE-NB	2.73	2.10	1.96
23	A	405[A]	CLA	C1C-C2C	2.73	1.49	1.44
23	b	610	CLA	C1B-CHB	2.72	1.48	1.41
23	b	609	CLA	C1C-NC	-2.72	1.33	1.37
29	A	414[B]	PL9	C6-C5	2.72	1.49	1.35
23	c	501	CLA	C4D-CHA	2.72	1.48	1.38
23	B	605	CLA	OBD-CAD	2.72	1.27	1.22
23	B	604	CLA	C4C-C3C	2.72	1.49	1.45
23	b	611	CLA	C1C-C2C	2.72	1.49	1.44
27	A	418	GOL	O2-C2	-2.72	1.35	1.43
23	b	610	CLA	C4D-CHA	2.72	1.48	1.38
23	C	512	CLA	C1C-C2C	2.71	1.49	1.44
31	B	627	LMT	C3'-C2'	2.71	1.59	1.52
23	B	601	CLA	C4B-CHC	2.71	1.48	1.41
23	b	615	CLA	C4D-CHA	2.71	1.48	1.38
23	B	614	CLA	C1B-CHB	2.71	1.48	1.41
23	B	604	CLA	C1B-CHB	2.70	1.48	1.41
23	b	607	CLA	OBD-CAD	2.70	1.27	1.22
23	c	503	CLA	C4D-CHA	2.70	1.48	1.38
23	C	502	CLA	C1C-C2C	2.69	1.49	1.44
23	c	512	CLA	C1B-CHB	2.69	1.48	1.41
23	A	405[A]	CLA	C4D-CHA	2.69	1.48	1.38
23	b	605	CLA	C1B-NB	-2.69	1.32	1.35
23	c	506	CLA	C1B-CHB	2.69	1.48	1.41
23	C	506	CLA	C4C-C3C	2.69	1.49	1.45
23	B	616	CLA	C1C-NC	-2.68	1.33	1.37
38	f	101	HEM	FE-NB	2.68	2.10	1.96
23	D	402[A]	CLA	C1B-CHB	2.68	1.48	1.41
23	b	612	CLA	C4B-CHC	2.68	1.48	1.41
23	c	505	CLA	C4C-C3C	2.68	1.49	1.45
23	b	608	CLA	C4D-CHA	2.67	1.47	1.38
35	H	102	DGD	O5D-C1E	2.67	1.44	1.40
23	a	406[A]	CLA	C4D-CHA	2.67	1.47	1.38
23	d	402[B]	CLA	C1B-CHB	2.67	1.48	1.41
23	B	604	CLA	C4D-CHA	2.67	1.47	1.38
23	a	404[A]	CLA	C1B-CHB	2.67	1.48	1.41
23	b	606	CLA	C4D-CHA	2.67	1.47	1.38
23	C	512	CLA	C4C-C3C	2.67	1.49	1.45
23	c	501	CLA	C4B-CHC	2.66	1.48	1.41
23	B	612	CLA	OBD-CAD	2.66	1.27	1.22
26	a	411	SQD	C6-S	-2.66	1.67	1.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	616	CLA	C1B-CHB	2.66	1.48	1.41
26	f	102	SQD	C6-S	-2.66	1.67	1.77
23	C	502	CLA	C4D-CHA	2.66	1.47	1.38
23	B	603	CLA	C4D-CHA	2.66	1.47	1.38
23	c	508	CLA	C1C-C2C	2.65	1.49	1.44
23	d	402[A]	CLA	C1B-CHB	2.65	1.48	1.41
33	C	521	LMG	O1-C1	2.65	1.44	1.40
23	B	609	CLA	C1C-C2C	2.65	1.49	1.44
23	A	404[B]	CLA	C4D-CHA	2.65	1.47	1.38
23	c	506	CLA	C4D-CHA	2.65	1.47	1.38
23	C	514	CLA	C1C-C2C	2.65	1.49	1.44
23	c	513	CLA	C1C-C2C	2.64	1.49	1.44
23	b	616	CLA	C1C-C2C	2.64	1.49	1.44
23	d	403	CLA	C1C-C2C	2.64	1.49	1.44
23	C	504	CLA	C4B-CHC	2.64	1.48	1.41
23	b	610	CLA	C4C-C3C	2.64	1.49	1.45
23	b	613	CLA	C4B-CHC	2.64	1.48	1.41
23	c	512	CLA	C4D-CHA	2.63	1.47	1.38
23	B	610	CLA	C1C-C2C	2.63	1.49	1.44
23	c	508	CLA	C4C-C3C	2.63	1.49	1.45
23	b	610	CLA	C3D-C4D	-2.63	1.38	1.44
23	B	614	CLA	C3D-C4D	-2.63	1.38	1.44
23	c	510	CLA	C4B-CHC	2.62	1.48	1.41
23	B	603	CLA	C1B-CHB	2.62	1.48	1.41
26	b	620	SQD	C6-S	-2.62	1.67	1.77
34	b	622	HTG	O5-C1	2.62	1.46	1.42
23	b	601	CLA	C1C-C2C	2.62	1.49	1.44
23	c	503	CLA	C1B-CHB	2.62	1.48	1.41
23	c	511	CLA	C1C-C2C	2.62	1.49	1.44
23	a	408	CLA	C4D-CHA	2.62	1.47	1.38
31	b	621	LMT	C3'-C2'	2.62	1.59	1.52
23	D	402[A]	CLA	C4D-CHA	2.61	1.47	1.38
31	B	629	LMT	O2'-C2'	-2.61	1.36	1.43
35	C	519	DGD	O2G-C2G	-2.61	1.40	1.46
23	B	608	CLA	C4D-CHA	2.61	1.47	1.38
23	c	509	CLA	C1B-CHB	2.61	1.48	1.41
23	C	503	CLA	C1C-C2C	2.61	1.49	1.44
23	C	506	CLA	C1B-CHB	2.61	1.48	1.41
23	c	501	CLA	C1B-CHB	2.61	1.48	1.41
23	b	603	CLA	C1C-C2C	2.61	1.49	1.44
23	c	503	CLA	C3D-C4D	-2.60	1.38	1.44
23	c	505	CLA	C4D-CHA	2.60	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	606	CLA	C1C-C2C	2.60	1.49	1.44
31	t	101	LMT	O3'-C3'	-2.60	1.36	1.43
23	C	509	CLA	C4D-CHA	2.60	1.47	1.38
23	C	508	CLA	C1C-C2C	2.60	1.49	1.44
23	d	402[A]	CLA	C4D-CHA	2.60	1.47	1.38
23	B	603	CLA	C1C-C2C	2.59	1.49	1.44
23	C	514	CLA	C1B-CHB	2.59	1.48	1.41
23	B	609	CLA	C4B-CHC	2.59	1.48	1.41
23	C	513	CLA	C4B-CHC	2.59	1.48	1.41
23	B	614	CLA	C1C-C2C	2.59	1.49	1.44
24	a	407[A]	PHO	CHA-CBD	-2.59	1.49	1.52
23	C	507	CLA	C4D-CHA	2.59	1.47	1.38
23	b	605	CLA	C4D-CHA	2.59	1.47	1.38
23	C	509	CLA	C4C-C3C	2.59	1.49	1.45
23	C	514	CLA	C4D-CHA	2.58	1.47	1.38
23	b	613	CLA	C1C-C2C	2.58	1.49	1.44
23	b	613	CLA	C4D-CHA	2.58	1.47	1.38
23	A	406[A]	CLA	C4D-CHA	2.58	1.47	1.38
24	a	407[A]	PHO	CBD-CGD	-2.58	1.49	1.52
23	b	607	CLA	C4D-CHA	2.58	1.47	1.38
23	C	505	CLA	C1B-CHB	2.57	1.48	1.41
26	A	412	SQD	C6-S	-2.57	1.67	1.77
23	B	607	CLA	C1B-CHB	2.57	1.48	1.41
23	A	405[B]	CLA	C4D-CHA	2.57	1.47	1.38
23	B	610	CLA	C4C-C3C	2.57	1.49	1.45
23	c	507	CLA	C4B-CHC	2.57	1.48	1.41
23	b	613	CLA	C1B-CHB	2.57	1.48	1.41
23	b	602	CLA	C3D-C4D	-2.57	1.38	1.44
23	b	616	CLA	C4D-CHA	2.57	1.47	1.38
23	a	406[B]	CLA	C4D-CHA	2.57	1.47	1.38
23	a	405[B]	CLA	C4D-CHA	2.57	1.47	1.38
23	c	513	CLA	C4C-C3C	2.57	1.49	1.45
34	B	622	HTG	C1'-S1	-2.57	1.78	1.81
23	b	616	CLA	C4B-CHC	2.57	1.48	1.41
23	D	403	CLA	C4B-CHC	2.56	1.48	1.41
23	c	504	CLA	C4D-CHA	2.56	1.47	1.38
23	A	408	CLA	C3D-C4D	-2.56	1.38	1.44
23	B	606	CLA	C4D-CHA	2.56	1.47	1.38
23	b	605	CLA	C1C-C2C	2.56	1.49	1.44
23	B	613	CLA	C4D-CHA	2.56	1.47	1.38
24	a	415[A]	PHO	CHA-CBD	-2.56	1.49	1.52
23	b	603	CLA	C4B-CHC	2.56	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	614	CLA	C1B-CHB	2.55	1.48	1.41
23	a	404[A]	CLA	C4D-CHA	2.55	1.47	1.38
23	B	615	CLA	C1B-CHB	2.55	1.48	1.41
23	A	408	CLA	C4D-CHA	2.55	1.47	1.38
23	C	511	CLA	C1B-CHB	2.55	1.48	1.41
23	d	402[A]	CLA	C1C-C2C	2.55	1.49	1.44
23	B	613	CLA	C1B-CHB	2.55	1.48	1.41
23	C	512	CLA	OBD-CAD	2.54	1.26	1.22
23	A	404[A]	CLA	C4D-CHA	2.54	1.47	1.38
23	b	613	CLA	OBD-CAD	2.54	1.26	1.22
23	a	404[B]	CLA	C4D-CHA	2.54	1.47	1.38
23	d	403	CLA	C4D-CHA	2.54	1.47	1.38
23	b	604	CLA	C4B-CHC	2.54	1.48	1.41
23	A	406[B]	CLA	C1C-C2C	2.53	1.49	1.44
23	b	611	CLA	C1B-CHB	2.53	1.48	1.41
23	C	509	CLA	C1C-C2C	2.53	1.49	1.44
23	B	604	CLA	C1C-C2C	2.53	1.49	1.44
23	c	509	CLA	C4C-C3C	2.53	1.49	1.45
23	b	601	CLA	C4D-CHA	2.53	1.47	1.38
23	b	606	CLA	C3D-C4D	-2.52	1.38	1.44
23	a	405[A]	CLA	C4D-CHA	2.52	1.47	1.38
23	B	605	CLA	C1B-CHB	2.52	1.48	1.41
23	b	603	CLA	C4D-CHA	2.52	1.47	1.38
23	C	511	CLA	C4D-CHA	2.52	1.47	1.38
24	a	415[A]	PHO	C3A-C2A	-2.52	1.52	1.54
23	c	513	CLA	C1B-CHB	2.52	1.48	1.41
23	B	605	CLA	C4D-CHA	2.51	1.47	1.38
23	C	504	CLA	C3D-C4D	-2.51	1.38	1.44
27	a	419	GOL	C1-C2	2.51	1.62	1.51
23	b	612	CLA	C1C-C2C	2.51	1.49	1.44
23	c	509	CLA	C1C-C2C	2.51	1.49	1.44
23	b	608	CLA	C4B-NB	-2.51	1.33	1.35
23	A	404[B]	CLA	C4B-CHC	2.51	1.48	1.41
24	a	415[B]	PHO	CHA-CBD	-2.50	1.49	1.52
23	A	405[B]	CLA	C3D-C4D	-2.50	1.38	1.44
23	c	504	CLA	C1B-CHB	2.50	1.47	1.41
23	C	512	CLA	C3D-C4D	-2.50	1.38	1.44
23	c	506	CLA	C4C-C3C	2.50	1.49	1.45
23	a	408	CLA	C4C-C3C	2.50	1.49	1.45
29	D	405[A]	PL9	C6-C5	2.50	1.48	1.35
23	A	404[A]	CLA	C1B-CHB	2.49	1.47	1.41
23	c	501	CLA	C3D-C4D	-2.49	1.38	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	513	CLA	C4D-CHA	2.49	1.47	1.38
23	B	615	CLA	C4D-CHA	2.49	1.47	1.38
23	d	402[B]	CLA	C4C-C3C	2.49	1.49	1.45
23	C	511	CLA	C1C-C2C	2.49	1.49	1.44
23	B	603	CLA	C4B-CHC	2.48	1.47	1.41
26	B	620	SQD	C6-S	-2.48	1.68	1.77
23	C	511	CLA	C4C-C3C	2.48	1.49	1.45
23	b	611	CLA	C4B-CHC	2.48	1.47	1.41
23	a	408	CLA	C1B-CHB	2.48	1.47	1.41
23	A	406[B]	CLA	C4D-CHA	2.48	1.47	1.38
23	c	505	CLA	C1B-CHB	2.47	1.47	1.41
23	B	613	CLA	C4C-C3C	2.47	1.49	1.45
23	a	404[A]	CLA	C1C-C2C	2.47	1.49	1.44
23	B	605	CLA	C3D-C4D	-2.47	1.38	1.44
23	B	602	CLA	C4C-C3C	2.47	1.49	1.45
23	A	405[A]	CLA	C4B-CHC	2.47	1.47	1.41
23	D	402[B]	CLA	C4D-CHA	2.47	1.47	1.38
23	b	602	CLA	C4D-CHA	2.47	1.47	1.38
23	D	402[A]	CLA	C1C-C2C	2.46	1.49	1.44
23	C	507	CLA	C1B-CHB	2.46	1.47	1.41
23	A	406[B]	CLA	C4B-CHC	2.46	1.47	1.41
23	B	606	CLA	C1B-CHB	2.46	1.47	1.41
23	b	606	CLA	C1B-CHB	2.46	1.47	1.41
23	c	513	CLA	C4D-CHA	2.46	1.47	1.38
34	o	301	HTG	O5-C1	2.46	1.46	1.42
23	b	611	CLA	C4D-CHA	2.46	1.47	1.38
23	D	402[B]	CLA	C1B-CHB	2.46	1.47	1.41
23	c	512	CLA	C1C-C2C	2.46	1.49	1.44
35	h	102	DGD	O5D-C1E	2.45	1.44	1.40
23	b	609	CLA	C1C-C2C	2.45	1.49	1.44
23	B	606	CLA	C4B-CHC	2.45	1.47	1.41
31	A	420	LMT	O3'-C3'	-2.45	1.37	1.43
23	B	610	CLA	C3D-C4D	-2.45	1.38	1.44
23	c	501	CLA	C4C-C3C	2.45	1.49	1.45
23	C	512	CLA	C4B-NB	-2.45	1.33	1.35
23	B	601	CLA	C4D-CHA	2.45	1.47	1.38
23	d	402[A]	CLA	C3D-C4D	-2.45	1.38	1.44
23	C	510	CLA	C4D-CHA	2.45	1.47	1.38
23	c	507	CLA	C1B-CHB	2.45	1.47	1.41
23	B	602	CLA	C4B-CHC	2.44	1.47	1.41
23	B	609	CLA	C4D-CHA	2.44	1.47	1.38
23	B	616	CLA	C1C-C2C	2.44	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	604	CLA	C1A-CHA	2.44	1.53	1.43
23	B	602	CLA	C4D-CHA	2.43	1.47	1.38
35	c	518	DGD	O2G-C2G	-2.43	1.40	1.46
29	d	405[B]	PL9	C6-C5	2.43	1.48	1.35
29	D	405[B]	PL9	C6-C5	2.43	1.48	1.35
23	D	402[A]	CLA	C3D-C4D	-2.43	1.38	1.44
27	D	412	GOL	O2-C2	-2.43	1.36	1.43
23	D	402[B]	CLA	C3D-C4D	-2.43	1.38	1.44
31	m	103	LMT	C3'-C2'	2.43	1.58	1.52
23	B	614	CLA	C4B-CHC	2.43	1.47	1.41
23	d	402[B]	CLA	C4D-CHA	2.43	1.47	1.38
23	c	507	CLA	C1D-C2D	2.42	1.50	1.45
23	b	615	CLA	C1B-CHB	2.42	1.47	1.41
23	a	404[B]	CLA	C4B-CHC	2.42	1.47	1.41
23	A	404[A]	CLA	C1C-C2C	2.42	1.49	1.44
23	B	610	CLA	C1B-CHB	2.42	1.47	1.41
23	b	615	CLA	C4B-CHC	2.42	1.47	1.41
23	b	612	CLA	C4C-C3C	2.42	1.49	1.45
23	A	405[B]	CLA	C4B-CHC	2.42	1.47	1.41
23	a	404[B]	CLA	C1C-C2C	2.41	1.49	1.44
23	C	502	CLA	C1B-CHB	2.41	1.47	1.41
23	b	607	CLA	C1C-C2C	2.41	1.49	1.44
23	C	510	CLA	C1B-CHB	2.41	1.47	1.41
31	B	631	LMT	O3'-C3'	-2.41	1.37	1.43
23	b	614	CLA	C4B-CHC	2.41	1.47	1.41
23	a	406[B]	CLA	C1C-C2C	2.41	1.49	1.44
23	B	616	CLA	C3D-C4D	-2.41	1.38	1.44
23	b	616	CLA	C3D-C4D	-2.40	1.38	1.44
31	M	103	LMT	O3'-C3'	-2.40	1.37	1.43
23	A	404[B]	CLA	C1C-C2C	2.40	1.49	1.44
23	d	403	CLA	C4B-CHC	2.40	1.47	1.41
24	A	407[B]	PHO	CBD-CGD	-2.40	1.49	1.52
23	d	403	CLA	C1B-CHB	2.40	1.47	1.41
23	B	602	CLA	C3D-C4D	-2.40	1.38	1.44
23	C	503	CLA	C4B-CHC	2.40	1.47	1.41
23	b	609	CLA	C3D-C4D	-2.40	1.38	1.44
23	C	502	CLA	C4B-CHC	2.39	1.47	1.41
23	a	408	CLA	C4B-CHC	2.39	1.47	1.41
23	b	610	CLA	C4B-CHC	2.39	1.47	1.41
23	B	616	CLA	C4B-NB	-2.39	1.33	1.35
23	A	406[A]	CLA	C1C-C2C	2.39	1.49	1.44
23	C	503	CLA	C4D-CHA	2.39	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	504	CLA	C1C-C2C	2.39	1.49	1.44
23	a	406[B]	CLA	C4B-CHC	2.39	1.47	1.41
23	C	506	CLA	C1C-C2C	2.38	1.49	1.44
23	B	611	CLA	C4D-CHA	2.38	1.46	1.38
23	b	604	CLA	C1B-CHB	2.38	1.47	1.41
23	C	504	CLA	C1B-CHB	2.38	1.47	1.41
23	B	609	CLA	C1B-CHB	2.38	1.47	1.41
23	A	404[B]	CLA	C1B-NB	-2.38	1.33	1.35
23	C	507	CLA	C1C-C2C	2.38	1.49	1.44
23	b	608	CLA	C1B-CHB	2.38	1.47	1.41
23	A	405[A]	CLA	C1B-CHB	2.37	1.47	1.41
23	C	506	CLA	C3D-C4D	-2.37	1.38	1.44
23	a	405[B]	CLA	C1B-CHB	2.37	1.47	1.41
38	f	101	HEM	C1D-ND	-2.37	1.33	1.38
23	b	605	CLA	C3D-C4D	-2.37	1.38	1.44
23	C	504	CLA	C4D-CHA	2.37	1.46	1.38
23	C	506	CLA	C4B-CHC	2.37	1.47	1.41
23	A	406[A]	CLA	C4B-CHC	2.37	1.47	1.41
23	a	406[A]	CLA	C3D-C4D	-2.36	1.38	1.44
24	A	416[A]	PHO	C3A-C2A	-2.36	1.52	1.54
31	M	101	LMT	O2'-C2'	-2.36	1.37	1.43
23	C	507	CLA	C3D-C4D	-2.36	1.38	1.44
23	a	404[A]	CLA	C4C-C3C	2.36	1.49	1.45
23	B	607	CLA	C1C-C2C	2.35	1.49	1.44
23	c	502	CLA	C1B-CHB	2.35	1.47	1.41
23	C	514	CLA	C3D-C4D	-2.35	1.38	1.44
23	A	406[B]	CLA	C1B-CHB	2.35	1.47	1.41
31	F	101	LMT	O3'-C3'	-2.35	1.37	1.43
26	F	103	SQD	O6-C1	2.35	1.44	1.40
23	A	405[B]	CLA	C1B-NB	-2.35	1.33	1.35
23	C	510	CLA	C4C-C3C	2.34	1.49	1.45
23	B	606	CLA	C3D-C4D	-2.34	1.38	1.44
23	B	601	CLA	C1B-CHB	2.34	1.47	1.41
23	C	508	CLA	C4B-CHC	2.34	1.47	1.41
23	A	408	CLA	C1C-NC	-2.34	1.34	1.37
23	C	503	CLA	C1B-CHB	2.34	1.47	1.41
27	o	304	GOL	C1-C2	2.34	1.61	1.51
23	A	406[A]	CLA	C1B-CHB	2.34	1.47	1.41
31	e	101	LMT	O3'-C3'	-2.34	1.37	1.43
23	c	503	CLA	C4C-C3C	2.34	1.49	1.45
23	b	615	CLA	C4C-C3C	2.34	1.49	1.45
23	b	605	CLA	C1B-CHB	2.34	1.47	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	508	CLA	C4B-CHC	2.33	1.47	1.41
23	D	403	CLA	C4D-CHA	2.33	1.46	1.38
29	d	405[A]	PL9	C6-C5	2.33	1.47	1.35
23	B	610	CLA	C4B-CHC	2.33	1.47	1.41
23	b	612	CLA	C4B-NB	-2.32	1.33	1.35
23	b	605	CLA	C4B-CHC	2.32	1.47	1.41
23	C	509	CLA	C4B-CHC	2.32	1.47	1.41
23	B	614	CLA	C1C-NC	-2.32	1.34	1.37
23	C	505	CLA	C4C-C3C	2.32	1.49	1.45
23	b	604	CLA	MG-NA	2.32	2.11	2.06
26	F	103	SQD	C6-S	-2.32	1.68	1.77
23	b	612	CLA	C3D-C4D	-2.32	1.38	1.44
23	c	504	CLA	C1C-NC	-2.31	1.34	1.37
23	c	502	CLA	C4D-CHA	2.31	1.46	1.38
23	A	404[B]	CLA	C1B-CHB	2.31	1.47	1.41
23	b	601	CLA	C1B-CHB	2.31	1.47	1.41
23	C	505	CLA	C1C-C2C	2.31	1.49	1.44
23	b	607	CLA	C1B-CHB	2.31	1.47	1.41
23	B	610	CLA	C1B-NB	-2.31	1.33	1.35
23	b	606	CLA	C4B-CHC	2.31	1.47	1.41
23	b	602	CLA	C4C-C3C	2.30	1.49	1.45
31	M	101	LMT	O2B-C2B	-2.30	1.37	1.43
23	a	404[A]	CLA	C4B-CHC	2.30	1.47	1.41
31	m	103	LMT	O3'-C3'	-2.30	1.37	1.43
23	a	406[B]	CLA	C3D-C4D	-2.30	1.39	1.44
23	a	404[B]	CLA	C1B-CHB	2.29	1.47	1.41
23	a	406[A]	CLA	C1B-CHB	2.29	1.47	1.41
23	d	402[B]	CLA	C3D-C4D	-2.29	1.39	1.44
23	c	513	CLA	C1D-C2D	2.29	1.49	1.45
23	b	614	CLA	C4C-C3C	2.29	1.49	1.45
23	C	512	CLA	C4B-CHC	2.29	1.47	1.41
23	B	616	CLA	C4B-CHC	2.29	1.47	1.41
31	M	101	LMT	O1'-C1'	-2.29	1.36	1.40
31	M	103	LMT	O2'-C2'	-2.29	1.37	1.43
23	B	609	CLA	C3D-C4D	-2.29	1.39	1.44
23	B	614	CLA	C4C-C3C	2.28	1.49	1.45
38	F	102	HEM	C3B-C4B	2.28	1.49	1.44
23	C	502	CLA	C3D-C4D	-2.28	1.39	1.44
23	b	611	CLA	C3D-C4D	-2.28	1.39	1.44
23	c	513	CLA	C4B-CHC	2.27	1.47	1.41
23	d	402[B]	CLA	C4B-NB	-2.27	1.33	1.35
31	M	101	LMT	O3'-C3'	-2.27	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	502	CLA	C1C-C2C	2.27	1.49	1.44
23	b	614	CLA	C3D-C4D	-2.27	1.39	1.44
24	A	416[B]	PHO	C3A-C2A	-2.26	1.52	1.54
23	c	502	CLA	C4B-CHC	2.26	1.47	1.41
23	B	613	CLA	C4B-CHC	2.26	1.47	1.41
23	B	612	CLA	C1C-NC	-2.25	1.34	1.37
23	b	615	CLA	C3D-C4D	-2.25	1.39	1.44
23	b	604	CLA	C1C-C2C	2.25	1.48	1.44
23	B	607	CLA	C3D-C4D	-2.25	1.39	1.44
23	D	402[A]	CLA	C4B-CHC	2.25	1.47	1.41
23	A	405[A]	CLA	C3D-C4D	-2.25	1.39	1.44
23	D	402[B]	CLA	C4C-C3C	2.25	1.48	1.45
23	B	604	CLA	C3D-C4D	-2.25	1.39	1.44
23	b	608	CLA	C4B-CHC	2.24	1.47	1.41
23	B	601	CLA	C3D-C4D	-2.24	1.39	1.44
23	b	614	CLA	C1C-C2C	2.24	1.48	1.44
23	b	601	CLA	C4B-CHC	2.24	1.47	1.41
23	B	607	CLA	C4B-CHC	2.24	1.47	1.41
23	a	404[B]	CLA	C4C-C3C	2.24	1.48	1.45
23	b	610	CLA	C1C-C2C	2.24	1.48	1.44
23	a	406[B]	CLA	C4C-C3C	2.24	1.48	1.45
23	a	405[A]	CLA	C1B-CHB	2.24	1.47	1.41
23	b	612	CLA	C4D-CHA	2.24	1.46	1.38
23	C	513	CLA	C3D-C4D	-2.23	1.39	1.44
23	b	607	CLA	C3D-C4D	-2.22	1.39	1.44
35	C	518[A]	DGD	O5D-C1E	2.22	1.44	1.40
23	B	603	CLA	C1B-NB	-2.22	1.33	1.35
23	c	513	CLA	C3D-C4D	-2.22	1.39	1.44
23	C	507	CLA	C4B-NB	-2.22	1.33	1.35
23	b	609	CLA	C4B-CHC	2.22	1.47	1.41
23	D	402[B]	CLA	C1C-C2C	2.21	1.48	1.44
31	B	629	LMT	O2B-C2B	-2.21	1.37	1.43
23	b	605	CLA	C4C-C3C	2.21	1.48	1.45
31	B	627	LMT	O3'-C3'	-2.21	1.37	1.43
23	c	511	CLA	C4B-CHC	2.20	1.47	1.41
23	A	405[B]	CLA	C1C-C2C	2.20	1.48	1.44
23	B	612	CLA	C4B-CHC	2.20	1.47	1.41
23	A	405[B]	CLA	C4C-C3C	2.19	1.48	1.45
23	c	504	CLA	C4B-CHC	2.19	1.47	1.41
23	b	608	CLA	C1C-C2C	2.19	1.48	1.44
24	A	407[A]	PHO	CHA-CBD	-2.19	1.49	1.52
23	c	511	CLA	C4C-C3C	2.19	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	508	CLA	C4C-C3C	2.19	1.48	1.45
27	A	418	GOL	C3-C2	2.18	1.60	1.51
23	A	404[B]	CLA	C3D-C4D	-2.18	1.39	1.44
23	D	402[A]	CLA	C4C-C3C	2.18	1.48	1.45
23	c	504	CLA	C1B-NB	-2.18	1.33	1.35
23	B	608	CLA	C3D-C4D	-2.18	1.39	1.44
23	b	602	CLA	C1B-CHB	2.18	1.47	1.41
23	B	608	CLA	C4C-C3C	2.18	1.48	1.45
23	c	506	CLA	C3D-C4D	-2.17	1.39	1.44
23	C	508	CLA	C3D-C4D	-2.17	1.39	1.44
23	d	402[B]	CLA	C1C-C2C	2.17	1.48	1.44
25	d	404	BCR	C30-C25	-2.17	1.50	1.53
23	c	509	CLA	C1C-NC	-2.17	1.34	1.37
23	C	510	CLA	C4B-CHC	2.17	1.47	1.41
23	C	505	CLA	C3D-C4D	-2.17	1.39	1.44
23	B	615	CLA	C4B-CHC	2.16	1.47	1.41
23	C	503	CLA	C3D-C4D	-2.16	1.39	1.44
23	C	511	CLA	C1D-C2D	2.16	1.49	1.45
23	B	611	CLA	C1D-C2D	2.16	1.49	1.45
23	C	505	CLA	C4B-CHC	2.16	1.47	1.41
23	d	402[A]	CLA	C4B-CHC	2.15	1.47	1.41
23	B	613	CLA	C3D-C4D	-2.15	1.39	1.44
23	c	504	CLA	C3D-C4D	-2.15	1.39	1.44
27	b	624	GOL	C3-C2	2.15	1.60	1.51
38	F	102	HEM	CHB-C1B	2.15	1.40	1.35
35	c	518	DGD	O5D-C1E	2.15	1.43	1.40
23	C	502	CLA	C4C-C3C	2.15	1.48	1.45
23	B	604	CLA	MG-NA	2.15	2.11	2.06
31	A	420	LMT	O2'-C2'	-2.15	1.37	1.43
23	A	405[B]	CLA	C1B-CHB	2.15	1.47	1.41
23	b	608	CLA	C3D-C4D	-2.15	1.39	1.44
23	c	509	CLA	C3D-C4D	-2.15	1.39	1.44
23	c	511	CLA	MG-NA	2.15	2.11	2.06
23	a	405[B]	CLA	C4B-CHC	2.15	1.47	1.41
23	c	506	CLA	C4B-CHC	2.15	1.47	1.41
24	a	407[B]	PHO	C3A-C2A	-2.15	1.52	1.54
23	B	607	CLA	C4C-C3C	2.14	1.48	1.45
23	C	507	CLA	C1D-C2D	2.14	1.49	1.45
35	C	518[B]	DGD	O5D-C1E	2.14	1.43	1.40
27	d	412	GOL	O2-C2	-2.14	1.37	1.43
23	C	509	CLA	C1A-CHA	2.13	1.51	1.43
23	C	508	CLA	C1B-CHB	2.13	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	501	CLA	C1C-NC	-2.13	1.34	1.37
23	C	511	CLA	C3D-C4D	-2.13	1.39	1.44
23	c	508	CLA	C3D-C4D	-2.12	1.39	1.44
23	c	511	CLA	C1D-C2D	2.12	1.49	1.45
29	a	413[A]	PL9	C2-C3	2.12	1.40	1.34
23	a	405[A]	CLA	C1C-C2C	2.12	1.48	1.44
25	b	617	BCR	C19-C18	2.12	1.50	1.45
23	A	406[A]	CLA	C1C-NC	-2.12	1.34	1.37
23	b	616	CLA	C1B-CHB	2.11	1.46	1.41
23	c	507	CLA	C4C-C3C	2.11	1.48	1.45
23	A	406[A]	CLA	C3D-C4D	-2.11	1.39	1.44
24	a	407[B]	PHO	CHA-CBD	-2.11	1.49	1.52
23	b	603	CLA	C4C-C3C	2.11	1.48	1.45
23	B	601	CLA	C1C-NC	-2.11	1.34	1.37
31	m	103	LMT	O2B-C2B	-2.11	1.38	1.43
23	C	513	CLA	C1B-CHB	2.11	1.46	1.41
23	A	406[B]	CLA	C3D-C4D	-2.11	1.39	1.44
23	B	604	CLA	C4B-CHC	2.10	1.46	1.41
23	B	612	CLA	C4C-C3C	2.10	1.48	1.45
23	c	507	CLA	C3D-C4D	-2.10	1.39	1.44
31	M	103	LMT	O3B-C3B	-2.10	1.38	1.43
23	a	404[A]	CLA	C3D-C4D	-2.10	1.39	1.44
23	a	406[A]	CLA	C4C-C3C	2.10	1.48	1.45
29	a	413[B]	PL9	C2-C3	2.10	1.40	1.34
23	b	615	CLA	C1C-C2C	2.10	1.48	1.44
31	A	417	LMT	O2'-C2'	-2.10	1.38	1.43
23	B	613	CLA	C1B-NB	-2.09	1.33	1.35
23	C	510	CLA	C1C-NC	-2.09	1.34	1.37
23	a	405[B]	CLA	C1C-C2C	2.09	1.48	1.44
23	D	402[B]	CLA	C4B-CHC	2.08	1.46	1.41
23	B	606	CLA	MG-NA	2.08	2.11	2.06
23	d	403	CLA	C4C-C3C	2.08	1.48	1.45
23	d	402[B]	CLA	C4B-CHC	2.08	1.46	1.41
23	a	404[B]	CLA	C1B-NB	-2.08	1.33	1.35
23	b	603	CLA	C1B-CHB	2.08	1.46	1.41
23	c	506	CLA	C1C-C2C	2.08	1.48	1.44
35	H	102	DGD	O2G-C2G	-2.08	1.41	1.46
31	B	631	LMT	O2'-C2'	-2.08	1.38	1.43
23	d	403	CLA	C3D-C4D	-2.08	1.39	1.44
23	c	512	CLA	C3D-C4D	-2.07	1.39	1.44
35	c	517[A]	DGD	O2G-C2G	-2.07	1.41	1.46
23	B	608	CLA	C4B-CHC	2.07	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	603	CLA	C1C-NC	-2.07	1.34	1.37
23	b	613	CLA	C4C-C3C	2.07	1.48	1.45
23	b	603	CLA	C3D-C4D	-2.07	1.39	1.44
23	C	504	CLA	C4C-C3C	2.07	1.48	1.45
23	a	406[A]	CLA	C4B-CHC	2.07	1.46	1.41
29	d	405[B]	PL9	C2-C3	2.06	1.40	1.34
27	D	412	GOL	C3-C2	2.06	1.60	1.51
31	t	101	LMT	O2'-C2'	-2.06	1.38	1.43
31	m	103	LMT	O3B-C3B	-2.05	1.38	1.43
31	B	627	LMT	O5'-C5'	-2.05	1.39	1.44
23	B	612	CLA	C3D-C4D	-2.04	1.39	1.44
23	c	510	CLA	C3D-C4D	-2.04	1.39	1.44
40	v	201	HEC	C3C-C4C	2.04	1.46	1.43
23	a	405[A]	CLA	C4B-CHC	2.04	1.46	1.41
29	A	414[A]	PL9	C2-C1	-2.04	1.39	1.44
23	B	612	CLA	C4B-NB	-2.04	1.33	1.35
23	B	611	CLA	C3D-C4D	-2.04	1.39	1.44
23	C	510	CLA	C4B-NB	-2.04	1.33	1.35
23	a	406[B]	CLA	C1B-CHB	2.03	1.46	1.41
23	B	615	CLA	MG-NA	2.03	2.11	2.06
23	B	601	CLA	C4C-C3C	2.03	1.48	1.45
23	A	404[A]	CLA	C3D-C4D	-2.03	1.39	1.44
23	c	503	CLA	MG-NA	2.03	2.11	2.06
23	C	508	CLA	C1D-C2D	2.03	1.49	1.45
23	b	601	CLA	C4C-C3C	2.02	1.48	1.45
23	A	404[A]	CLA	C4B-NB	-2.02	1.33	1.35
23	C	507	CLA	C4B-CHC	2.01	1.46	1.41
23	C	514	CLA	C4B-CHC	2.01	1.46	1.41
31	M	103	LMT	O1'-C1'	-2.01	1.36	1.40
34	b	622	HTG	C1-C2	2.01	1.56	1.53
23	a	405[B]	CLA	C3D-C4D	-2.01	1.39	1.44
29	D	405[B]	PL9	C2-C3	2.01	1.39	1.34
25	B	619	BCR	C30-C25	-2.01	1.51	1.53

All (3095) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	611	CLA	C1D-ND-C4D	-12.01	97.80	106.33
23	a	408	CLA	C1D-ND-C4D	-10.49	98.88	106.33
23	B	615	CLA	C1D-ND-C4D	-10.49	98.89	106.33
23	a	404[B]	CLA	C1D-ND-C4D	-10.15	99.12	106.33
23	b	605	CLA	C1D-ND-C4D	-10.14	99.13	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	605	CLA	C1D-ND-C4D	-10.10	99.16	106.33
23	c	511	CLA	C1D-ND-C4D	-10.07	99.18	106.33
23	b	611	CLA	C1D-ND-C4D	-10.06	99.19	106.33
23	B	601	CLA	C1D-ND-C4D	-10.05	99.20	106.33
23	B	611	CLA	C2D-C1D-ND	9.97	117.45	110.10
23	B	606	CLA	C1D-ND-C4D	-9.92	99.29	106.33
23	b	603	CLA	C1D-ND-C4D	-9.88	99.32	106.33
23	a	406[B]	CLA	C1D-ND-C4D	-9.80	99.38	106.33
23	C	511	CLA	C1D-ND-C4D	-9.76	99.40	106.33
23	c	505	CLA	C1D-ND-C4D	-9.62	99.50	106.33
23	C	504	CLA	C1D-ND-C4D	-9.58	99.53	106.33
23	B	605	CLA	C2D-C1D-ND	9.54	117.13	110.10
23	b	611	CLA	C2D-C1D-ND	9.48	117.09	110.10
23	A	406[B]	CLA	C1D-ND-C4D	-9.47	99.61	106.33
23	B	607	CLA	C1D-ND-C4D	-9.47	99.61	106.33
23	c	513	CLA	C1D-ND-C4D	-9.46	99.61	106.33
23	B	614	CLA	C1D-ND-C4D	-9.46	99.61	106.33
23	c	503	CLA	C1D-ND-C4D	-9.46	99.62	106.33
23	C	505	CLA	C1D-ND-C4D	-9.44	99.63	106.33
23	a	408	CLA	C2D-C1D-ND	9.44	117.06	110.10
23	B	612	CLA	C1D-ND-C4D	-9.41	99.65	106.33
23	C	505	CLA	C2D-C1D-ND	9.34	116.99	110.10
23	b	614	CLA	C1D-ND-C4D	-9.34	99.70	106.33
23	d	403	CLA	C1D-ND-C4D	-9.32	99.71	106.33
23	C	502	CLA	C1D-ND-C4D	-9.30	99.73	106.33
23	b	608	CLA	C1D-ND-C4D	-9.28	99.74	106.33
23	b	609	CLA	C1D-ND-C4D	-9.28	99.74	106.33
23	b	601	CLA	C1D-ND-C4D	-9.25	99.76	106.33
23	D	402[B]	CLA	C1D-ND-C4D	-9.23	99.78	106.33
23	c	501	CLA	C1D-ND-C4D	-9.22	99.79	106.33
23	b	602	CLA	C1D-ND-C4D	-9.21	99.80	106.33
23	b	610	CLA	C1D-ND-C4D	-9.20	99.80	106.33
23	b	614	CLA	C2D-C1D-ND	9.20	116.88	110.10
23	C	513	CLA	C1D-ND-C4D	-9.19	99.81	106.33
23	a	406[A]	CLA	C1D-ND-C4D	-9.17	99.82	106.33
23	D	403	CLA	C1D-ND-C4D	-9.17	99.82	106.33
23	D	402[A]	CLA	C1D-ND-C4D	-9.16	99.83	106.33
23	C	514	CLA	C1D-ND-C4D	-9.14	99.84	106.33
23	B	603	CLA	C1D-ND-C4D	-9.12	99.86	106.33
23	B	606	CLA	C2D-C1D-ND	9.11	116.82	110.10
23	A	408	CLA	C1D-ND-C4D	-9.10	99.87	106.33
23	B	602	CLA	C1D-ND-C4D	-9.10	99.87	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	d	402[B]	CLA	C1D-ND-C4D	-9.10	99.87	106.33
23	d	402[A]	CLA	C1D-ND-C4D	-9.09	99.88	106.33
23	C	506	CLA	C1D-ND-C4D	-9.08	99.88	106.33
23	A	406[A]	CLA	C1D-ND-C4D	-9.08	99.89	106.33
23	B	615	CLA	C2D-C1D-ND	9.07	116.79	110.10
23	A	405[B]	CLA	C1D-ND-C4D	-9.07	99.89	106.33
23	c	506	CLA	C1D-ND-C4D	-9.07	99.90	106.33
23	b	615	CLA	C1D-ND-C4D	-9.05	99.90	106.33
23	a	405[A]	CLA	C1D-ND-C4D	-9.04	99.91	106.33
23	b	605	CLA	C2D-C1D-ND	9.01	116.75	110.10
23	B	614	CLA	C2D-C1D-ND	8.98	116.72	110.10
23	b	613	CLA	C2D-C1D-ND	8.97	116.71	110.10
23	A	405[A]	CLA	C1D-ND-C4D	-8.91	100.01	106.33
23	B	613	CLA	C1D-ND-C4D	-8.86	100.04	106.33
23	d	403	CLA	C2D-C1D-ND	8.85	116.62	110.10
23	B	609	CLA	C1D-ND-C4D	-8.84	100.05	106.33
23	c	511	CLA	C2D-C1D-ND	8.84	116.62	110.10
23	a	404[A]	CLA	C1D-ND-C4D	-8.83	100.06	106.33
23	c	512	CLA	C1D-ND-C4D	-8.82	100.07	106.33
23	C	510	CLA	C1D-ND-C4D	-8.80	100.08	106.33
23	A	408	CLA	C2D-C1D-ND	8.80	116.59	110.10
23	b	602	CLA	C4A-NA-C1A	-8.79	102.75	106.71
23	a	405[A]	CLA	C2D-C1D-ND	8.75	116.56	110.10
23	C	507	CLA	C1D-ND-C4D	-8.75	100.12	106.33
23	c	502	CLA	C1D-ND-C4D	-8.75	100.12	106.33
23	b	603	CLA	C2D-C1D-ND	8.75	116.55	110.10
23	A	404[B]	CLA	C1D-ND-C4D	-8.74	100.12	106.33
23	c	510	CLA	C1D-ND-C4D	-8.74	100.13	106.33
23	B	608	CLA	C1D-ND-C4D	-8.73	100.13	106.33
23	B	607	CLA	C2D-C1D-ND	8.73	116.54	110.10
23	c	504	CLA	C1D-ND-C4D	-8.71	100.15	106.33
23	a	405[B]	CLA	C1D-ND-C4D	-8.70	100.16	106.33
23	B	608	CLA	C2D-C1D-ND	8.69	116.51	110.10
23	B	601	CLA	C2D-C1D-ND	8.69	116.50	110.10
23	b	606	CLA	C1D-ND-C4D	-8.67	100.18	106.33
23	C	509	CLA	C1D-ND-C4D	-8.65	100.19	106.33
23	a	406[A]	CLA	C2D-C1D-ND	8.65	116.48	110.10
23	a	406[B]	CLA	C2D-C1D-ND	8.64	116.47	110.10
23	b	612	CLA	C1D-ND-C4D	-8.61	100.22	106.33
23	c	508	CLA	C1D-ND-C4D	-8.59	100.23	106.33
23	b	613	CLA	C1D-ND-C4D	-8.58	100.24	106.33
23	B	616	CLA	C1D-ND-C4D	-8.56	100.26	106.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	616	CLA	C1D-ND-C4D	-8.53	100.27	106.33
23	c	509	CLA	C1D-ND-C4D	-8.52	100.28	106.33
23	B	603	CLA	C2D-C1D-ND	8.52	116.39	110.10
23	a	404[B]	CLA	C2D-C1D-ND	8.51	116.37	110.10
23	c	508	CLA	C2D-C1D-ND	8.51	116.37	110.10
23	D	402[A]	CLA	C2D-C1D-ND	8.50	116.37	110.10
23	A	404[A]	CLA	C1D-ND-C4D	-8.50	100.30	106.33
23	B	612	CLA	C2D-C1D-ND	8.49	116.36	110.10
23	C	508	CLA	C1D-ND-C4D	-8.41	100.36	106.33
23	B	610	CLA	C2D-C1D-ND	8.39	116.29	110.10
23	c	506	CLA	C2D-C1D-ND	8.35	116.26	110.10
23	B	610	CLA	C1D-ND-C4D	-8.32	100.42	106.33
23	c	507	CLA	C1D-ND-C4D	-8.30	100.44	106.33
23	A	405[B]	CLA	C2D-C1D-ND	8.30	116.22	110.10
23	B	616	CLA	C2D-C1D-ND	8.29	116.22	110.10
23	C	514	CLA	C2D-C1D-ND	8.28	116.21	110.10
23	C	504	CLA	C2D-C1D-ND	8.27	116.20	110.10
23	c	505	CLA	C2D-C1D-ND	8.27	116.20	110.10
23	A	406[B]	CLA	C2D-C1D-ND	8.26	116.19	110.10
23	A	405[A]	CLA	C2D-C1D-ND	8.25	116.18	110.10
23	B	613	CLA	C2D-C1D-ND	8.25	116.18	110.10
23	C	510	CLA	C2D-C1D-ND	8.25	116.18	110.10
23	c	502	CLA	C2D-C1D-ND	8.22	116.16	110.10
23	C	513	CLA	C2D-C1D-ND	8.21	116.16	110.10
23	b	615	CLA	C2D-C1D-ND	8.21	116.16	110.10
23	C	509	CLA	C2D-C1D-ND	8.21	116.15	110.10
23	c	504	CLA	C2D-C1D-ND	8.19	116.14	110.10
23	A	406[A]	CLA	C2D-C1D-ND	8.15	116.11	110.10
24	a	407[A]	PHO	O2D-CGD-CBD	8.14	121.31	111.00
23	b	610	CLA	C2D-C1D-ND	8.12	116.09	110.10
23	C	502	CLA	C2D-C1D-ND	8.10	116.08	110.10
23	b	608	CLA	C2D-C1D-ND	8.10	116.07	110.10
23	D	403	CLA	C2D-C1D-ND	8.09	116.07	110.10
23	b	607	CLA	C1D-ND-C4D	-8.09	100.59	106.33
23	C	503	CLA	C1D-ND-C4D	-8.08	100.59	106.33
23	B	604	CLA	C1D-ND-C4D	-7.95	100.68	106.33
23	D	402[B]	CLA	C2D-C1D-ND	7.95	115.97	110.10
23	B	606	CLA	CMD-C2D-C1D	7.95	138.72	124.71
23	B	609	CLA	C4A-NA-C1A	-7.93	103.14	106.71
23	a	405[B]	CLA	C2D-C1D-ND	7.92	115.94	110.10
23	c	510	CLA	C2D-C1D-ND	7.91	115.93	110.10
23	c	503	CLA	C2D-C1D-ND	7.89	115.92	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	602	CLA	C2D-C1D-ND	7.88	115.91	110.10
23	b	609	CLA	C2D-C1D-ND	7.86	115.90	110.10
23	B	605	CLA	CHD-C4C-C3C	-7.86	113.29	124.84
24	a	415[A]	PHO	O2D-CGD-CBD	7.83	120.91	111.00
23	b	601	CLA	C2D-C1D-ND	7.82	115.87	110.10
23	d	402[A]	CLA	C2D-C1D-ND	7.82	115.87	110.10
23	c	501	CLA	C2D-C1D-ND	7.80	115.85	110.10
23	C	508	CLA	C2D-C1D-ND	7.79	115.85	110.10
23	c	513	CLA	C2D-C1D-ND	7.78	115.84	110.10
23	b	607	CLA	C2D-C1D-ND	7.77	115.83	110.10
23	c	512	CLA	C2D-C1D-ND	7.77	115.83	110.10
23	C	504	CLA	C4A-NA-C1A	-7.75	103.22	106.71
23	b	616	CLA	C2D-C1D-ND	7.74	115.81	110.10
23	A	404[A]	CLA	C2D-C1D-ND	7.64	115.73	110.10
23	B	611	CLA	CHD-C4C-C3C	-7.63	113.63	124.84
23	B	606	CLA	CHD-C1D-ND	-7.63	117.44	124.45
34	b	623	HTG	C1'-S1-C1	7.63	114.35	100.09
23	d	402[B]	CLA	C2D-C1D-ND	7.57	115.68	110.10
23	C	511	CLA	CMD-C2D-C1D	7.56	138.04	124.71
23	C	511	CLA	C2D-C1D-ND	7.56	115.67	110.10
23	B	609	CLA	C2D-C1D-ND	7.51	115.64	110.10
23	D	402[B]	CLA	C4A-NA-C1A	-7.47	103.35	106.71
24	A	416[A]	PHO	O2D-CGD-CBD	7.46	120.44	111.00
23	b	602	CLA	C2D-C1D-ND	7.45	115.59	110.10
23	b	606	CLA	C2D-C1D-ND	7.45	115.59	110.10
23	C	512	CLA	C1D-ND-C4D	-7.44	101.05	106.33
23	c	503	CLA	C4A-NA-C1A	-7.42	103.37	106.71
24	a	415[B]	PHO	O2D-CGD-CBD	7.40	120.37	111.00
24	a	407[B]	PHO	O2D-CGD-CBD	7.37	120.34	111.00
26	F	103	SQD	O6-C1-C2	7.37	119.81	108.30
23	B	606	CLA	C4A-NA-C1A	-7.34	103.41	106.71
23	b	604	CLA	C1D-ND-C4D	-7.33	101.13	106.33
23	C	506	CLA	C2D-C1D-ND	7.33	115.50	110.10
23	a	404[A]	CLA	C2D-C1D-ND	7.32	115.50	110.10
23	C	507	CLA	C2D-C1D-ND	7.32	115.50	110.10
23	b	606	CLA	C4A-NA-C1A	-7.31	103.42	106.71
23	A	404[B]	CLA	C2D-C1D-ND	7.31	115.49	110.10
23	b	616	CLA	C4A-NA-C1A	-7.30	103.42	106.71
23	C	503	CLA	C2D-C1D-ND	7.27	115.46	110.10
23	c	509	CLA	C2D-C1D-ND	7.27	115.46	110.10
23	b	612	CLA	C2D-C1D-ND	7.23	115.44	110.10
23	c	507	CLA	C2D-C1D-ND	7.22	115.43	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	507	CLA	O2D-CGD-CBD	7.22	124.10	111.27
23	D	402[A]	CLA	C4A-NA-C1A	-7.21	103.46	106.71
24	A	407[B]	PHO	O2D-CGD-CBD	7.20	120.12	111.00
23	D	403	CLA	C4A-NA-C1A	-7.18	103.48	106.71
23	b	605	CLA	CHD-C1D-ND	-7.12	117.91	124.45
23	C	512	CLA	C2D-C1D-ND	7.08	115.32	110.10
24	A	416[B]	PHO	O2D-CGD-CBD	7.05	119.93	111.00
23	C	513	CLA	CHD-C4C-C3C	-7.02	114.53	124.84
23	B	615	CLA	C4A-NA-C1A	-7.02	103.55	106.71
23	b	615	CLA	C4A-NA-C1A	-6.97	103.57	106.71
23	B	616	CLA	O2D-CGD-CBD	6.94	123.60	111.27
23	b	601	CLA	O2D-CGD-CBD	6.90	123.53	111.27
23	c	503	CLA	CMD-C2D-C1D	6.89	136.85	124.71
23	B	611	CLA	CMD-C2D-C1D	6.87	136.82	124.71
23	B	614	CLA	CMD-C2D-C1D	6.87	136.81	124.71
23	b	605	CLA	CHD-C4C-C3C	-6.86	114.76	124.84
23	b	604	CLA	C2D-C1D-ND	6.83	115.14	110.10
23	C	508	CLA	O2D-CGD-CBD	6.83	123.40	111.27
23	B	605	CLA	CMD-C2D-C1D	6.83	136.74	124.71
23	b	616	CLA	O2D-CGD-CBD	6.83	123.40	111.27
23	b	606	CLA	CHD-C4C-C3C	-6.80	114.84	124.84
23	c	507	CLA	CMD-C2D-C1D	6.80	136.69	124.71
23	b	605	CLA	CMD-C2D-C1D	6.79	136.68	124.71
23	c	513	CLA	CMD-C2D-C1D	6.75	136.60	124.71
23	c	501	CLA	CMD-C2D-C1D	6.72	136.56	124.71
23	a	406[B]	CLA	CHD-C1D-ND	-6.71	118.29	124.45
23	c	511	CLA	CHD-C4C-C3C	-6.71	114.98	124.84
23	A	404[A]	CLA	CMD-C2D-C1D	6.70	136.53	124.71
23	c	507	CLA	CHD-C1D-ND	-6.70	118.30	124.45
23	b	616	CLA	CHD-C4C-C3C	-6.68	115.02	124.84
23	B	616	CLA	CHD-C4C-C3C	-6.67	115.03	124.84
23	B	606	CLA	CHD-C4C-C3C	-6.65	115.06	124.84
23	C	502	CLA	O2D-CGD-CBD	6.62	123.04	111.27
23	C	508	CLA	CMD-C2D-C1D	6.62	136.38	124.71
23	a	405[A]	CLA	CHD-C4C-C3C	-6.61	115.12	124.84
23	b	609	CLA	CHD-C4C-C3C	-6.60	115.13	124.84
23	b	613	CLA	CHD-C4C-C3C	-6.60	115.13	124.84
23	A	404[B]	CLA	CMD-C2D-C1D	6.60	136.35	124.71
23	C	509	CLA	C2C-C1C-NC	6.60	116.15	109.97
23	C	507	CLA	C2C-C1C-NC	6.59	116.15	109.97
23	b	601	CLA	C4A-NA-C1A	-6.59	103.75	106.71
23	B	603	CLA	O2D-CGD-CBD	6.58	122.97	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	501	CLA	CHD-C1D-ND	-6.58	118.41	124.45
23	A	408	CLA	CHD-C1D-ND	-6.57	118.42	124.45
23	C	505	CLA	CHD-C1D-ND	-6.56	118.42	124.45
23	b	611	CLA	CHD-C4C-C3C	-6.56	115.20	124.84
23	B	604	CLA	C2D-C1D-ND	6.55	114.93	110.10
23	C	507	CLA	CMD-C2D-C1D	6.54	136.24	124.71
23	b	610	CLA	CHD-C4C-C3C	-6.53	115.25	124.84
23	c	510	CLA	CHD-C4C-C3C	-6.53	115.25	124.84
23	B	611	CLA	CHD-C1D-ND	-6.52	118.46	124.45
34	c	521	HTG	C1'-S1-C1	6.50	112.24	100.09
23	B	610	CLA	O2D-CGD-CBD	6.49	122.80	111.27
23	d	402[A]	CLA	C2C-C1C-NC	6.49	116.05	109.97
23	B	606	CLA	O2D-CGD-CBD	6.48	122.78	111.27
23	B	601	CLA	CHD-C4C-C3C	-6.47	115.33	124.84
40	V	201	HEC	CBD-CAD-C3D	-6.47	101.58	112.62
23	D	402[B]	CLA	CMD-C2D-C1D	6.45	136.09	124.71
23	A	404[A]	CLA	C4A-NA-C1A	-6.44	103.81	106.71
26	A	410[A]	SQD	O6-C1-C2	6.44	118.36	108.30
23	b	606	CLA	CMD-C2D-C1D	6.43	136.05	124.71
23	C	506	CLA	CMD-C2D-C1D	6.43	136.05	124.71
23	C	511	CLA	O2D-CGD-CBD	6.43	122.69	111.27
23	b	607	CLA	C2C-C1C-NC	6.42	115.99	109.97
23	a	404[B]	CLA	CMD-C2D-C1D	6.42	136.03	124.71
23	B	604	CLA	C2C-C1C-NC	6.41	115.98	109.97
23	a	406[A]	CLA	CHD-C4C-C3C	-6.40	115.43	124.84
23	b	611	CLA	CMD-C2D-C1D	6.39	135.97	124.71
23	C	505	CLA	C2C-C1C-NC	6.39	115.95	109.97
23	B	603	CLA	CHD-C4C-C3C	-6.37	115.48	124.84
23	C	511	CLA	CHD-C1D-ND	-6.36	118.61	124.45
23	d	403	CLA	CHD-C1D-ND	-6.34	118.63	124.45
23	a	405[B]	CLA	CHD-C4C-C3C	-6.34	115.52	124.84
26	F	103	SQD	O47-C7-C8	6.33	125.14	111.50
23	C	507	CLA	CHD-C1D-ND	-6.32	118.64	124.45
23	B	609	CLA	CHD-C4C-C3C	-6.31	115.57	124.84
34	D	410	HTG	C1'-S1-C1	6.30	111.87	100.09
23	c	510	CLA	CMD-C2D-C1D	6.29	135.80	124.71
23	B	614	CLA	CHD-C4C-C3C	-6.29	115.60	124.84
23	c	506	CLA	CMD-C2D-C1D	6.28	135.78	124.71
23	c	505	CLA	CHD-C4C-C3C	-6.27	115.62	124.84
23	d	402[B]	CLA	C2C-C1C-NC	6.27	115.85	109.97
23	B	612	CLA	CHD-C4C-C3C	-6.26	115.64	124.84
23	c	513	CLA	CHD-C1D-ND	-6.26	118.70	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	601	CLA	CMD-C2D-C1D	6.25	135.72	124.71
23	C	513	CLA	C4A-NA-C1A	-6.24	103.90	106.71
24	A	407[A]	PHO	O2D-CGD-CBD	6.23	118.89	111.00
25	D	404	BCR	C7-C8-C9	-6.22	116.83	126.23
23	c	512	CLA	C4A-NA-C1A	-6.22	103.91	106.71
23	b	604	CLA	C2C-C1C-NC	6.22	115.80	109.97
23	c	510	CLA	C4A-NA-C1A	-6.21	103.91	106.71
23	a	404[A]	CLA	C2C-C1C-NC	6.21	115.79	109.97
23	D	402[B]	CLA	CHD-C1D-ND	-6.20	118.75	124.45
23	b	602	CLA	O2D-CGD-CBD	6.19	122.26	111.27
23	a	404[A]	CLA	C4A-NA-C1A	-6.18	103.93	106.71
23	b	609	CLA	CMD-C2D-C1D	6.18	135.60	124.71
23	c	502	CLA	C2C-C1C-NC	6.18	115.76	109.97
23	B	605	CLA	CHD-C1D-ND	-6.17	118.78	124.45
23	a	406[A]	CLA	C4A-NA-C1A	-6.17	103.93	106.71
23	c	511	CLA	CMD-C2D-C1D	6.16	135.58	124.71
23	B	615	CLA	CHD-C1D-ND	-6.16	118.79	124.45
23	c	508	CLA	C2C-C1C-NC	6.16	115.74	109.97
23	C	510	CLA	CHD-C4C-C3C	-6.15	115.80	124.84
23	b	603	CLA	CHD-C4C-C3C	-6.15	115.80	124.84
23	c	512	CLA	CHD-C4C-C3C	-6.15	115.81	124.84
23	A	406[B]	CLA	CHD-C1D-ND	-6.15	118.81	124.45
23	A	406[A]	CLA	CHD-C1D-ND	-6.14	118.81	124.45
23	a	406[A]	CLA	CHD-C1D-ND	-6.14	118.81	124.45
23	C	502	CLA	C4A-NA-C1A	-6.13	103.95	106.71
23	B	603	CLA	CHD-C1D-ND	-6.13	118.82	124.45
23	b	615	CLA	CHD-C4C-C3C	-6.12	115.85	124.84
23	A	404[A]	CLA	CHD-C1D-ND	-6.11	118.83	124.45
23	a	408	CLA	CHD-C4C-C3C	-6.11	115.86	124.84
23	A	408	CLA	CMD-C2D-C1D	6.11	135.48	124.71
23	D	402[A]	CLA	CMD-C2D-C1D	6.10	135.47	124.71
23	B	601	CLA	O2D-CGD-CBD	6.10	122.11	111.27
23	a	406[B]	CLA	CMD-C2D-C1D	6.10	135.46	124.71
23	b	601	CLA	CHD-C4C-C3C	-6.10	115.88	124.84
23	C	510	CLA	CMD-C2D-C1D	6.09	135.44	124.71
23	B	609	CLA	CMD-C2D-C1D	6.08	135.43	124.71
23	B	614	CLA	C2C-C1C-NC	6.08	115.67	109.97
23	C	504	CLA	CMD-C2D-C1D	6.08	135.42	124.71
23	c	506	CLA	CHD-C1D-ND	-6.08	118.87	124.45
23	b	604	CLA	O2D-CGD-CBD	6.07	122.06	111.27
23	a	404[A]	CLA	CMD-C2D-C1D	6.07	135.41	124.71
23	B	615	CLA	CHD-C4C-C3C	-6.07	115.92	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	514	CLA	CHD-C4C-C3C	-6.06	115.93	124.84
23	C	509	CLA	CHD-C4C-C3C	-6.06	115.93	124.84
23	c	506	CLA	C2C-C1C-NC	6.06	115.64	109.97
23	d	402[B]	CLA	C4A-NA-C1A	-6.05	103.98	106.71
23	C	511	CLA	C2C-C1C-NC	6.05	115.64	109.97
23	C	506	CLA	CHD-C4C-C3C	-6.05	115.95	124.84
23	D	403	CLA	CHD-C4C-C3C	-6.05	115.95	124.84
23	B	610	CLA	CMD-C2D-C1D	6.04	135.36	124.71
23	a	405[B]	CLA	C2C-C1C-NC	6.04	115.63	109.97
23	c	508	CLA	CHD-C4C-C3C	-6.04	115.97	124.84
23	d	402[B]	CLA	CMD-C2D-C1D	6.04	135.35	124.71
23	b	614	CLA	CHD-C4C-C3C	-6.04	115.97	124.84
23	c	509	CLA	C1-C2-C3	-6.03	115.61	126.04
23	c	504	CLA	CHD-C4C-C3C	-6.02	115.99	124.84
23	B	602	CLA	O2D-CGD-CBD	6.01	121.96	111.27
23	A	408	CLA	CHD-C4C-C3C	-6.01	116.00	124.84
23	C	504	CLA	CHD-C1D-ND	-6.01	118.93	124.45
23	b	606	CLA	CHD-C1D-ND	-6.00	118.94	124.45
23	B	613	CLA	CHD-C4C-C3C	-5.99	116.03	124.84
23	b	610	CLA	O2D-CGD-CBD	5.99	121.92	111.27
23	b	602	CLA	CHD-C4C-C3C	-5.99	116.03	124.84
23	b	605	CLA	O2D-CGD-CBD	5.99	121.91	111.27
23	b	616	CLA	CMD-C2D-C1D	5.99	135.26	124.71
34	B	622	HTG	C1'-S1-C1	5.98	111.27	100.09
23	C	514	CLA	CHD-C1D-ND	-5.98	118.96	124.45
23	a	404[B]	CLA	CHD-C1D-ND	-5.97	118.97	124.45
23	A	405[B]	CLA	CMD-C2D-C1D	5.96	135.22	124.71
23	b	611	CLA	CHD-C1D-ND	-5.96	118.97	124.45
23	C	512	CLA	CHD-C4C-C3C	-5.96	116.08	124.84
38	F	102	HEM	CAD-CBD-CGD	5.95	126.41	113.60
25	Y	101	BCR	C33-C5-C6	-5.95	117.85	124.53
23	A	406[B]	CLA	CHD-C4C-C3C	-5.95	116.10	124.84
23	b	601	CLA	CMD-C2D-C1D	5.94	135.19	124.71
23	a	404[B]	CLA	CHD-C4C-C3C	-5.93	116.12	124.84
23	a	405[A]	CLA	CMD-C2D-C1D	5.93	135.16	124.71
23	b	601	CLA	CHD-C1D-ND	-5.93	119.01	124.45
23	b	613	CLA	CMD-C2D-C1D	5.92	135.15	124.71
23	b	610	CLA	CMD-C2D-C1D	5.92	135.15	124.71
23	A	406[A]	CLA	C4A-NA-C1A	-5.91	104.05	106.71
23	D	402[A]	CLA	CHD-C1D-ND	-5.91	119.02	124.45
23	B	602	CLA	CHD-C4C-C3C	-5.91	116.15	124.84
23	C	504	CLA	CHD-C4C-C3C	-5.91	116.15	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	406[B]	CLA	CHD-C4C-C3C	-5.91	116.16	124.84
23	B	601	CLA	CHD-C1D-ND	-5.90	119.03	124.45
23	c	507	CLA	C4A-NA-C1A	-5.90	104.05	106.71
23	C	508	CLA	CHD-C1D-ND	-5.90	119.03	124.45
23	c	501	CLA	CHD-C4C-C3C	-5.89	116.18	124.84
23	A	406[A]	CLA	CMD-C2D-C1D	5.89	135.10	124.71
23	A	405[B]	CLA	CHD-C4C-C3C	-5.89	116.19	124.84
23	b	612	CLA	CHD-C4C-C3C	-5.88	116.20	124.84
23	D	402[A]	CLA	C2C-C1C-NC	5.88	115.48	109.97
23	A	406[B]	CLA	CMD-C2D-C1D	5.87	135.07	124.71
23	C	503	CLA	CHD-C4C-C3C	-5.87	116.21	124.84
23	A	408	CLA	C2C-C1C-NC	5.87	115.47	109.97
23	C	510	CLA	CHD-C1D-ND	-5.87	119.06	124.45
23	c	503	CLA	CHD-C4C-C3C	-5.87	116.22	124.84
26	A	410[B]	SQD	O6-C1-C2	5.86	117.46	108.30
23	B	616	CLA	C4A-NA-C1A	-5.86	104.07	106.71
23	A	404[B]	CLA	CHD-C4C-C3C	-5.86	116.23	124.84
23	b	612	CLA	C2C-C1C-NC	5.85	115.46	109.97
23	B	609	CLA	CHD-C1D-ND	-5.85	119.08	124.45
23	A	406[A]	CLA	CHD-C4C-C3C	-5.85	116.25	124.84
23	c	512	CLA	O2D-CGD-CBD	5.84	121.65	111.27
23	A	404[A]	CLA	C2C-C1C-NC	5.84	115.44	109.97
23	c	502	CLA	CHD-C4C-C3C	-5.83	116.27	124.84
23	b	603	CLA	CHD-C1D-ND	-5.83	119.10	124.45
23	d	403	CLA	CHD-C4C-C3C	-5.82	116.28	124.84
23	b	603	CLA	C4A-NA-C1A	-5.82	104.09	106.71
23	b	608	CLA	CHD-C1D-ND	-5.82	119.11	124.45
33	C	501	LMG	C7-O1-C1	-5.81	102.38	113.74
23	c	509	CLA	CMD-C2D-C1D	5.81	134.95	124.71
23	B	604	CLA	CMD-C2D-C1D	5.80	134.94	124.71
23	c	503	CLA	CHD-C1D-ND	-5.79	119.13	124.45
23	B	610	CLA	CHD-C4C-C3C	-5.78	116.34	124.84
23	B	614	CLA	C3D-C2D-C1D	-5.77	97.95	105.83
23	A	405[A]	CLA	CHD-C4C-C3C	-5.77	116.36	124.84
23	B	605	CLA	O2D-CGD-CBD	5.77	121.52	111.27
23	c	511	CLA	CHD-C1D-ND	-5.76	119.16	124.45
23	c	505	CLA	O2D-CGD-CBD	5.76	121.51	111.27
23	D	402[B]	CLA	C2C-C1C-NC	5.76	115.37	109.97
23	b	615	CLA	CMD-C2D-C1D	5.75	134.85	124.71
23	c	508	CLA	C4A-NA-C1A	-5.75	104.12	106.71
23	a	408	CLA	O2D-CGD-CBD	5.75	121.48	111.27
23	B	608	CLA	C2C-C1C-NC	5.74	115.35	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	614	CLA	CHD-C1D-ND	-5.74	119.18	124.45
23	c	509	CLA	C2C-C1C-NC	5.74	115.35	109.97
23	C	503	CLA	C2C-C1C-NC	5.73	115.34	109.97
23	C	505	CLA	CMD-C2D-C1D	5.73	134.82	124.71
23	B	603	CLA	CMD-C2D-C1D	5.73	134.82	124.71
23	B	607	CLA	C2C-C1C-NC	5.73	115.34	109.97
23	B	616	CLA	C3C-C4C-NC	5.72	116.99	110.57
23	B	604	CLA	CHD-C4C-C3C	-5.71	116.44	124.84
23	C	502	CLA	CHD-C4C-C3C	-5.71	116.45	124.84
23	B	614	CLA	O2D-CGD-CBD	5.70	121.40	111.27
26	a	410[A]	SQD	O6-C1-C2	5.69	117.19	108.30
23	b	607	CLA	CHD-C1D-ND	-5.69	119.22	124.45
23	C	502	CLA	CMD-C2D-C1D	5.69	134.74	124.71
23	b	602	CLA	CHD-C1D-ND	-5.68	119.23	124.45
23	b	611	CLA	C2C-C1C-NC	5.67	115.29	109.97
23	C	514	CLA	CMD-C2D-C1D	5.67	134.71	124.71
23	B	607	CLA	CHD-C4C-C3C	-5.67	116.51	124.84
26	B	620	SQD	O6-C1-C2	5.66	117.14	108.30
23	c	509	CLA	CHD-C4C-C3C	-5.66	116.52	124.84
23	C	511	CLA	CHD-C4C-C3C	-5.66	116.52	124.84
23	B	603	CLA	C4A-NA-C1A	-5.66	104.16	106.71
23	b	607	CLA	CMD-C2D-C1D	5.65	134.68	124.71
23	b	611	CLA	O2D-CGD-CBD	5.65	121.31	111.27
23	B	605	CLA	C3D-C2D-C1D	-5.65	98.12	105.83
23	C	512	CLA	C2C-C1C-NC	5.65	115.26	109.97
26	A	410[A]	SQD	C1-O5-C5	-5.64	102.61	113.69
23	b	613	CLA	CHD-C1D-ND	-5.64	119.27	124.45
23	B	616	CLA	C2C-C1C-NC	5.62	115.24	109.97
23	A	404[B]	CLA	C2C-C1C-NC	5.61	115.23	109.97
23	B	602	CLA	C2C-C1C-NC	5.61	115.23	109.97
23	C	508	CLA	CHD-C4C-C3C	-5.61	116.59	124.84
23	A	405[B]	CLA	C2C-C1C-NC	5.61	115.23	109.97
23	D	403	CLA	CHD-C1D-ND	-5.61	119.30	124.45
23	C	508	CLA	C4A-NA-C1A	-5.60	104.19	106.71
23	a	406[B]	CLA	C4A-NA-C1A	-5.60	104.19	106.71
23	c	504	CLA	CHD-C1D-ND	-5.60	119.31	124.45
23	C	512	CLA	O2D-CGD-CBD	5.60	121.21	111.27
23	B	605	CLA	C4A-NA-C1A	-5.59	104.19	106.71
26	B	620	SQD	O47-C7-C8	5.59	123.55	111.50
23	B	611	CLA	CMB-C2B-C1B	5.59	137.06	128.46
23	B	608	CLA	O2D-CGD-CBD	5.59	121.20	111.27
23	c	506	CLA	CHD-C4C-C3C	-5.58	116.64	124.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	405[B]	CLA	CMD-C2D-C1D	5.58	134.54	124.71
23	C	510	CLA	C2C-C1C-NC	5.57	115.19	109.97
23	B	611	CLA	C3D-C2D-C1D	-5.57	98.23	105.83
23	D	403	CLA	CMD-C2D-C1D	5.57	134.53	124.71
23	c	505	CLA	C4A-NA-C1A	-5.56	104.20	106.71
23	b	608	CLA	CHD-C4C-C3C	-5.56	116.67	124.84
23	C	506	CLA	C2C-C1C-NC	5.56	115.18	109.97
23	a	404[B]	CLA	C4A-NA-C1A	-5.56	104.21	106.71
23	b	608	CLA	O2D-CGD-CBD	5.55	121.12	111.27
23	A	405[A]	CLA	C2C-C1C-NC	5.54	115.17	109.97
23	b	608	CLA	C4A-NA-C1A	-5.54	104.22	106.71
23	D	402[A]	CLA	CHD-C4C-C3C	-5.54	116.70	124.84
23	c	507	CLA	C2C-C1C-NC	5.52	115.14	109.97
23	b	611	CLA	C4A-NA-C1A	-5.51	104.23	106.71
23	b	614	CLA	O2D-CGD-CBD	5.51	121.06	111.27
23	c	507	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
23	a	404[A]	CLA	CHD-C4C-C3C	-5.51	116.74	124.84
23	a	405[A]	CLA	C2C-C1C-NC	5.50	115.13	109.97
23	a	408	CLA	C2C-C1C-NC	5.50	115.12	109.97
23	b	603	CLA	CMD-C2D-C1D	5.50	134.41	124.71
23	C	506	CLA	O2D-CGD-CBD	5.50	121.04	111.27
23	d	402[A]	CLA	CHD-C4C-C3C	-5.50	116.76	124.84
23	B	602	CLA	C4A-NA-C1A	-5.49	104.24	106.71
23	b	613	CLA	C2C-C1C-NC	5.49	115.11	109.97
23	a	405[A]	CLA	CHD-C1D-ND	-5.49	119.41	124.45
23	D	402[B]	CLA	CHD-C4C-C3C	-5.49	116.78	124.84
23	a	406[A]	CLA	CMD-C2D-C1D	5.49	134.38	124.71
23	c	513	CLA	CHD-C4C-C3C	-5.48	116.78	124.84
23	b	612	CLA	CMD-C2D-C1D	5.47	134.36	124.71
23	d	403	CLA	CMD-C2D-C1D	5.47	134.36	124.71
23	B	608	CLA	CHD-C1D-ND	-5.47	119.43	124.45
23	B	607	CLA	C4A-NA-C1A	-5.47	104.25	106.71
23	B	612	CLA	C3C-C4C-NC	5.47	116.70	110.57
23	C	502	CLA	CHD-C1D-ND	-5.46	119.43	124.45
23	B	608	CLA	CHD-C4C-C3C	-5.46	116.82	124.84
23	C	514	CLA	C2C-C1C-NC	5.45	115.08	109.97
23	C	503	CLA	CMD-C2D-C1D	5.45	134.32	124.71
23	d	402[A]	CLA	CMD-C2D-C1D	5.44	134.30	124.71
23	C	505	CLA	C3D-C2D-C1D	-5.44	98.41	105.83
23	c	510	CLA	CHD-C1D-ND	-5.43	119.47	124.45
23	C	505	CLA	O2D-CGD-CBD	5.42	120.90	111.27
23	b	614	CLA	C2C-C1C-NC	5.42	115.05	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	605	CLA	C3D-C2D-C1D	-5.41	98.44	105.83
23	A	405[A]	CLA	CHD-C1D-ND	-5.41	119.48	124.45
23	c	504	CLA	C2C-C1C-NC	5.41	115.04	109.97
23	b	603	CLA	O2D-CGD-CBD	5.40	120.87	111.27
23	B	612	CLA	O2D-CGD-CBD	5.40	120.86	111.27
34	d	410	HTG	C1'-S1-C1	5.40	110.18	100.09
23	b	611	CLA	C3D-C2D-C1D	-5.39	98.47	105.83
23	B	606	CLA	C3D-C2D-C1D	-5.39	98.47	105.83
23	c	506	CLA	C4A-NA-C1A	-5.39	104.28	106.71
24	a	415[A]	PHO	C1-C2-C3	-5.39	116.72	126.04
23	A	405[A]	CLA	C4A-NA-C1A	-5.38	104.29	106.71
23	B	605	CLA	C3C-C4C-NC	5.38	116.60	110.57
23	c	501	CLA	C4A-NA-C1A	-5.38	104.29	106.71
34	b	622	HTG	C1-O5-C5	5.37	122.48	112.58
23	c	508	CLA	CMD-C2D-C1D	5.37	134.17	124.71
23	d	402[B]	CLA	CHD-C4C-C3C	-5.37	116.95	124.84
23	c	505	CLA	CMD-C2D-C1D	5.36	134.17	124.71
23	A	405[B]	CLA	CHD-C1D-ND	-5.36	119.52	124.45
23	b	602	CLA	CMD-C2D-C1D	5.35	134.14	124.71
26	A	410[A]	SQD	C1-C2-C3	-5.35	98.86	110.00
23	c	513	CLA	C4A-NA-C1A	-5.34	104.31	106.71
23	a	404[A]	CLA	CHD-C1D-ND	-5.34	119.55	124.45
23	B	615	CLA	CMD-C2D-C1D	5.34	134.12	124.71
23	A	404[B]	CLA	C4A-NA-C1A	-5.33	104.31	106.71
23	B	604	CLA	O2D-CGD-CBD	5.33	120.73	111.27
23	A	406[B]	CLA	C4A-NA-C1A	-5.32	104.31	106.71
23	C	503	CLA	CHD-C1D-ND	-5.32	119.57	124.45
23	b	603	CLA	C2C-C1C-NC	5.31	114.95	109.97
23	b	605	CLA	C2C-C1C-NC	5.31	114.95	109.97
23	b	604	CLA	C1-C2-C3	-5.31	116.86	126.04
23	b	613	CLA	C3D-C2D-C1D	-5.31	98.59	105.83
25	t	102	BCR	C33-C5-C6	-5.30	118.58	124.53
23	B	607	CLA	O2D-CGD-CBD	5.29	120.67	111.27
23	b	615	CLA	C2C-C1C-NC	5.28	114.92	109.97
23	c	508	CLA	C3D-C2D-C1D	-5.28	98.63	105.83
23	c	513	CLA	C2C-C1C-NC	5.28	114.91	109.97
29	A	414[B]	PL9	C7-C8-C9	-5.27	118.02	126.79
23	c	512	CLA	CMD-C2D-C1D	5.26	133.98	124.71
23	B	609	CLA	C2C-C1C-NC	5.26	114.90	109.97
23	B	611	CLA	O2D-CGD-CBD	5.25	120.60	111.27
23	c	505	CLA	C3C-C4C-NC	5.25	116.46	110.57
23	C	509	CLA	C3C-C4C-NC	5.25	116.46	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	609	CLA	CHD-C1D-ND	-5.25	119.63	124.45
23	B	613	CLA	C1-C2-C3	-5.24	116.98	126.04
23	c	512	CLA	CHD-C1D-ND	-5.24	119.64	124.45
23	b	605	CLA	C4A-NA-C1A	-5.24	104.35	106.71
23	c	504	CLA	CMD-C2D-C1D	5.23	133.94	124.71
23	C	513	CLA	CMD-C2D-C1D	5.23	133.92	124.71
23	b	614	CLA	CHD-C1D-ND	-5.22	119.65	124.45
23	C	510	CLA	C4A-NA-C1A	-5.22	104.36	106.71
23	c	511	CLA	C2C-C1C-NC	5.21	114.86	109.97
23	b	608	CLA	C2C-C1C-NC	5.21	114.86	109.97
23	C	512	CLA	CMD-C2D-C1D	5.21	133.90	124.71
23	C	513	CLA	O2D-CGD-CBD	5.21	120.53	111.27
23	B	602	CLA	CMD-C2D-C1D	5.21	133.89	124.71
23	C	506	CLA	CHD-C1D-ND	-5.20	119.68	124.45
23	B	611	CLA	CMC-C2C-C1C	5.20	132.95	125.04
23	a	404[B]	CLA	C2C-C1C-NC	5.19	114.84	109.97
23	C	507	CLA	CHD-C4C-C3C	-5.19	117.21	124.84
23	b	606	CLA	C2C-C1C-NC	5.19	114.83	109.97
26	b	620	SQD	O47-C7-C8	5.19	122.69	111.50
23	d	402[A]	CLA	CHD-C1D-ND	-5.18	119.69	124.45
23	b	604	CLA	CHD-C1D-ND	-5.18	119.69	124.45
23	B	603	CLA	C2C-C1C-NC	5.18	114.83	109.97
26	b	620	SQD	O6-C1-C2	5.18	116.39	108.30
23	b	604	CLA	CHD-C4C-C3C	-5.18	117.23	124.84
23	c	502	CLA	O2D-CGD-CBD	5.17	120.46	111.27
23	B	612	CLA	CHD-C1D-ND	-5.17	119.70	124.45
23	C	513	CLA	CHD-C1D-ND	-5.16	119.71	124.45
23	B	613	CLA	CMD-C2D-C1D	5.16	133.81	124.71
23	b	604	CLA	C4A-NA-C1A	-5.15	104.39	106.71
23	B	604	CLA	C3C-C4C-NC	5.14	116.34	110.57
23	A	408	CLA	C3D-C2D-C1D	-5.14	98.81	105.83
23	B	607	CLA	CHD-C1D-ND	-5.14	119.73	124.45
23	A	404[A]	CLA	CHD-C4C-C3C	-5.13	117.30	124.84
23	B	613	CLA	C2C-C1C-NC	5.13	114.78	109.97
23	b	609	CLA	C3C-C4C-NC	5.13	116.32	110.57
23	a	405[B]	CLA	CHD-C1D-ND	-5.12	119.75	124.45
23	C	514	CLA	C4A-NA-C1A	-5.12	104.41	106.71
23	B	612	CLA	CMD-C2D-C1D	5.12	133.73	124.71
23	c	509	CLA	CHD-C1D-ND	-5.12	119.75	124.45
25	A	409	BCR	C24-C23-C22	-5.11	118.51	126.23
23	b	614	CLA	CMD-C2D-C1D	5.11	133.71	124.71
23	b	613	CLA	C4A-NA-C1A	-5.10	104.41	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	b	620	SQD	C1-O5-C5	-5.09	103.69	113.69
23	B	610	CLA	CHD-C1D-ND	-5.09	119.78	124.45
23	B	608	CLA	CMD-C2D-C1D	5.08	133.67	124.71
26	a	410[A]	SQD	O47-C7-C8	5.08	122.45	111.50
23	C	506	CLA	C4A-NA-C1A	-5.08	104.42	106.71
23	a	405[A]	CLA	C3D-C2D-C1D	-5.08	98.90	105.83
23	A	404[B]	CLA	CHD-C1D-ND	-5.07	119.80	124.45
23	a	408	CLA	C4A-NA-C1A	-5.07	104.43	106.71
23	D	403	CLA	O2D-CGD-CBD	5.07	120.27	111.27
23	b	604	CLA	CMD-C2D-C1D	5.06	133.64	124.71
23	D	402[A]	CLA	C3D-C2D-C1D	-5.06	98.92	105.83
23	b	615	CLA	CHD-C1D-ND	-5.06	119.81	124.45
23	B	610	CLA	C3D-C2D-C1D	-5.05	98.93	105.83
23	b	609	CLA	C2C-C1C-NC	5.05	114.70	109.97
23	c	504	CLA	O2D-CGD-CBD	5.05	120.24	111.27
23	A	405[B]	CLA	C3D-C2D-C1D	-5.05	98.95	105.83
23	c	505	CLA	C2C-C1C-NC	5.04	114.69	109.97
38	f	101	HEM	CHC-C4B-NB	5.03	129.89	124.43
23	B	604	CLA	C1-C2-C3	-5.02	117.36	126.04
23	d	403	CLA	O2D-CGD-CBD	5.01	120.17	111.27
23	b	614	CLA	C3D-C2D-C1D	-5.01	98.99	105.83
23	A	405[A]	CLA	O2D-CGD-CBD	5.01	120.17	111.27
23	b	606	CLA	O2D-CGD-CBD	5.01	120.16	111.27
23	d	403	CLA	C3D-C2D-C1D	-5.00	99.00	105.83
23	D	402[A]	CLA	C3C-C4C-NC	5.00	116.18	110.57
23	B	615	CLA	C2C-C1C-NC	5.00	114.65	109.97
23	B	608	CLA	C3D-C2D-C1D	-5.00	99.01	105.83
23	c	510	CLA	O2D-CGD-CBD	4.99	120.14	111.27
23	b	607	CLA	CHD-C4C-C3C	-4.98	117.52	124.84
26	F	103	SQD	C1-O5-C5	-4.98	103.91	113.69
29	a	413[A]	PL9	C7-C8-C9	-4.98	118.50	126.79
23	b	610	CLA	C2C-C1C-NC	4.97	114.63	109.97
23	a	406[B]	CLA	O2D-CGD-CBD	4.97	120.09	111.27
23	a	406[A]	CLA	C3D-C2D-C1D	-4.96	99.06	105.83
23	c	502	CLA	C4A-NA-C1A	-4.96	104.48	106.71
26	a	410[B]	SQD	O47-C7-C8	4.96	122.19	111.50
23	c	506	CLA	C3D-C2D-C1D	-4.96	99.07	105.83
24	a	415[B]	PHO	C1-C2-C3	-4.95	117.48	126.04
23	B	605	CLA	C2C-C1C-NC	4.95	114.61	109.97
29	A	414[A]	PL9	C7-C8-C9	-4.94	118.56	126.79
23	C	505	CLA	CHD-C4C-C3C	-4.94	117.58	124.84
23	C	508	CLA	C2C-C1C-NC	4.94	114.60	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	501	CLA	O2D-CGD-CBD	4.93	120.03	111.27
23	A	408	CLA	C4A-NA-C1A	-4.93	104.49	106.71
23	B	610	CLA	C2C-C1C-NC	4.92	114.58	109.97
23	b	611	CLA	C3C-C4C-NC	4.92	116.09	110.57
26	a	410[A]	SQD	C1-O5-C5	-4.91	104.05	113.69
23	c	511	CLA	C3D-C2D-C1D	-4.91	99.14	105.83
23	b	610	CLA	CHD-C1D-ND	-4.90	119.95	124.45
23	b	616	CLA	C3D-C2D-C1D	-4.90	99.14	105.83
23	B	608	CLA	C4A-NA-C1A	-4.90	104.50	106.71
23	B	616	CLA	CMD-C2D-C1D	4.90	133.34	124.71
23	c	503	CLA	C3D-C2D-C1D	-4.90	99.15	105.83
23	b	610	CLA	C1-C2-C3	-4.89	117.58	126.04
23	d	402[A]	CLA	C4A-NA-C1A	-4.89	104.51	106.71
23	a	405[B]	CLA	O2D-CGD-CBD	4.89	119.96	111.27
23	c	502	CLA	C1C-C2C-C3C	-4.89	101.82	106.96
23	b	613	CLA	C3C-C4C-NC	4.89	116.05	110.57
23	B	613	CLA	C3D-C2D-C1D	-4.88	99.17	105.83
23	c	510	CLA	C2C-C1C-NC	4.88	114.54	109.97
23	B	616	CLA	C3D-C2D-C1D	-4.87	99.18	105.83
33	B	621	LMG	O7-C10-C11	4.85	121.96	111.50
23	c	505	CLA	CHD-C1D-ND	-4.85	120.00	124.45
23	B	611	CLA	C3D-C4D-ND	4.85	118.09	110.24
23	a	408	CLA	CHD-C1D-ND	-4.85	120.00	124.45
23	B	613	CLA	C3C-C4C-NC	4.85	116.01	110.57
23	b	608	CLA	CMD-C2D-C1D	4.85	133.26	124.71
25	b	617	BCR	C7-C8-C9	-4.85	118.91	126.23
26	f	102	SQD	O47-C7-C8	4.84	121.94	111.50
23	C	502	CLA	C2C-C1C-NC	4.84	114.51	109.97
23	A	406[A]	CLA	C2C-C1C-NC	4.83	114.50	109.97
23	B	603	CLA	C3D-C2D-C1D	-4.83	99.25	105.83
23	C	502	CLA	O2D-CGD-O1D	-4.82	114.41	123.84
23	D	403	CLA	C3D-C2D-C1D	-4.82	99.25	105.83
23	a	406[A]	CLA	C2C-C1C-NC	4.82	114.49	109.97
23	b	604	CLA	C1C-C2C-C3C	-4.82	101.89	106.96
23	c	503	CLA	C2C-C1C-NC	4.82	114.48	109.97
23	d	402[B]	CLA	CHD-C1D-ND	-4.81	120.03	124.45
23	B	615	CLA	C3D-C2D-C1D	-4.81	99.27	105.83
23	B	612	CLA	C2C-C1C-NC	4.81	114.48	109.97
23	B	610	CLA	O2A-CGA-CBA	4.80	126.96	111.91
23	C	507	CLA	C4A-NA-C1A	-4.79	104.55	106.71
23	C	512	CLA	C4A-NA-C1A	-4.79	104.55	106.71
23	A	404[B]	CLA	C1D-CHD-C4C	-4.79	115.72	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	509	CLA	O2D-CGD-CBD	4.79	119.78	111.27
23	c	504	CLA	C3D-C2D-C1D	-4.79	99.30	105.83
26	A	410[B]	SQD	C1-O5-C5	-4.79	104.29	113.69
23	c	508	CLA	O2D-CGD-CBD	4.79	119.77	111.27
23	b	607	CLA	C3D-C2D-C1D	-4.78	99.30	105.83
23	A	405[A]	CLA	C3D-C2D-C1D	-4.78	99.31	105.83
38	F	102	HEM	CBA-CAA-C2A	-4.78	104.46	112.62
23	C	514	CLA	C3D-C2D-C1D	-4.78	99.31	105.83
23	C	505	CLA	C1C-C2C-C3C	-4.77	101.94	106.96
23	A	405[A]	CLA	CMD-C2D-C1D	4.77	133.12	124.71
23	C	504	CLA	C3D-C2D-C1D	-4.77	99.33	105.83
23	B	606	CLA	C2C-C1C-NC	4.77	114.44	109.97
23	a	408	CLA	C3C-C4C-NC	4.76	115.91	110.57
23	a	408	CLA	C3D-C2D-C1D	-4.76	99.33	105.83
23	b	609	CLA	C4A-NA-C1A	-4.76	104.57	106.71
23	b	612	CLA	C3C-C4C-NC	4.76	115.91	110.57
23	B	601	CLA	C3D-C2D-C1D	-4.75	99.35	105.83
23	C	502	CLA	C3D-C2D-C1D	-4.75	99.35	105.83
23	a	405[B]	CLA	C3D-C2D-C1D	-4.74	99.36	105.83
23	C	510	CLA	O2D-CGD-CBD	4.74	119.70	111.27
23	c	513	CLA	C3D-C2D-C1D	-4.74	99.36	105.83
23	b	602	CLA	C3D-C4D-ND	4.74	117.90	110.24
23	B	603	CLA	C3C-C4C-NC	4.74	115.88	110.57
34	C	522	HTG	C1'-S1-C1	4.74	108.95	100.09
23	d	402[B]	CLA	C3C-C4C-NC	4.73	115.88	110.57
23	C	508	CLA	C3D-C2D-C1D	-4.73	99.37	105.83
23	C	511	CLA	C3D-C4D-ND	4.73	117.89	110.24
23	C	511	CLA	C1C-C2C-C3C	-4.73	101.99	106.96
23	b	606	CLA	C3C-C4C-NC	4.73	115.87	110.57
23	C	513	CLA	C3D-C2D-C1D	-4.72	99.39	105.83
23	B	607	CLA	C3D-C2D-C1D	-4.72	99.39	105.83
23	C	513	CLA	C3C-C4C-NC	4.72	115.86	110.57
23	b	603	CLA	C3C-C4C-NC	4.71	115.86	110.57
23	C	507	CLA	O2D-CGD-CBD	4.71	119.64	111.27
23	b	609	CLA	C1-C2-C3	-4.71	117.89	126.04
23	c	501	CLA	C3D-C2D-C1D	-4.71	99.40	105.83
23	A	408	CLA	C3C-C4C-NC	4.71	115.85	110.57
23	C	507	CLA	C1C-C2C-C3C	-4.70	102.01	106.96
23	C	510	CLA	C3C-C4C-NC	4.70	115.84	110.57
23	B	602	CLA	CHD-C1D-ND	-4.70	120.14	124.45
23	a	405[B]	CLA	C1C-C2C-C3C	-4.70	102.02	106.96
23	B	607	CLA	CMD-C2D-C1D	4.70	132.99	124.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	609	CLA	C3C-C4C-NC	4.70	115.84	110.57
23	a	408	CLA	CMD-C2D-C1D	4.69	132.99	124.71
23	A	406[B]	CLA	C3D-C2D-C1D	-4.69	99.43	105.83
23	c	501	CLA	O2D-CGD-O1D	-4.69	114.67	123.84
23	a	404[B]	CLA	C3D-C2D-C1D	-4.68	99.44	105.83
23	B	613	CLA	CHD-C1D-ND	-4.68	120.15	124.45
23	a	406[B]	CLA	C3D-C2D-C1D	-4.68	99.44	105.83
23	A	405[B]	CLA	O2D-CGD-CBD	4.68	119.58	111.27
23	b	614	CLA	C4A-NA-C1A	-4.68	104.60	106.71
25	y	101	BCR	C33-C5-C6	-4.67	119.28	124.53
23	c	508	CLA	C3C-C4C-NC	4.67	115.81	110.57
25	H	101	BCR	C38-C26-C25	-4.66	119.30	124.53
23	c	501	CLA	C2C-C1C-NC	4.66	114.33	109.97
23	a	406[B]	CLA	C3D-C4D-ND	4.65	117.76	110.24
23	D	402[B]	CLA	C3D-C2D-C1D	-4.64	99.50	105.83
23	b	603	CLA	C3D-C4D-ND	4.64	117.75	110.24
23	B	616	CLA	O2D-CGD-O1D	-4.63	114.78	123.84
23	A	406[B]	CLA	C2C-C1C-NC	4.63	114.31	109.97
23	C	504	CLA	C2C-C1C-NC	4.63	114.31	109.97
23	B	615	CLA	C3D-C4D-ND	4.63	117.73	110.24
23	a	405[A]	CLA	O2D-CGD-CBD	4.63	119.49	111.27
23	C	509	CLA	CMD-C2D-C1D	4.63	132.87	124.71
23	b	616	CLA	C2C-C1C-NC	4.62	114.30	109.97
23	C	506	CLA	C3C-C4C-NC	4.62	115.75	110.57
33	a	416	LMG	O7-C10-C11	4.62	121.45	111.50
23	B	614	CLA	C4A-NA-C1A	-4.62	104.63	106.71
23	b	612	CLA	CHD-C1D-ND	-4.61	120.21	124.45
23	a	408	CLA	C3D-C4D-ND	4.61	117.70	110.24
40	v	201	HEC	CMB-C2B-C1B	-4.61	121.38	128.46
23	A	406[B]	CLA	C3D-C4D-ND	4.61	117.69	110.24
23	D	403	CLA	C2C-C1C-NC	4.61	114.29	109.97
23	b	615	CLA	C3D-C2D-C1D	-4.61	99.55	105.83
23	c	510	CLA	C3D-C2D-C1D	-4.60	99.56	105.83
23	A	404[A]	CLA	C3D-C2D-C1D	-4.59	99.56	105.83
23	a	406[B]	CLA	C2C-C1C-NC	4.59	114.27	109.97
23	d	402[B]	CLA	O2D-CGD-CBD	4.59	119.42	111.27
23	b	612	CLA	C4A-NA-C1A	-4.59	104.64	106.71
23	b	606	CLA	C3D-C2D-C1D	-4.58	99.58	105.83
31	t	101	LMT	C3'-C4'-C5'	-4.58	100.42	110.93
23	c	504	CLA	C3C-C4C-NC	4.58	115.71	110.57
23	b	616	CLA	CHD-C1D-ND	-4.58	120.25	124.45
23	C	509	CLA	C3D-C2D-C1D	-4.58	99.58	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	406[B]	CLA	O2D-CGD-CBD	4.57	119.40	111.27
23	b	601	CLA	C3D-C4D-ND	4.57	117.64	110.24
26	F	103	SQD	O8-S-C6	4.57	113.03	105.74
23	A	405[A]	CLA	C1C-C2C-C3C	-4.57	102.15	106.96
23	c	507	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
23	C	511	CLA	C3D-C2D-C1D	-4.57	99.60	105.83
23	B	610	CLA	C4A-NA-C1A	-4.57	104.65	106.71
23	B	610	CLA	C3C-C4C-NC	4.57	115.69	110.57
23	c	502	CLA	CHD-C1D-ND	-4.56	120.26	124.45
23	a	404[B]	CLA	C3D-C4D-ND	4.56	117.61	110.24
23	b	610	CLA	C3C-C4C-NC	4.55	115.68	110.57
23	c	510	CLA	C3C-C4C-NC	4.55	115.68	110.57
23	d	403	CLA	C4A-NA-C1A	-4.55	104.66	106.71
25	C	515	BCR	C33-C5-C6	-4.54	119.43	124.53
23	B	601	CLA	C3D-C4D-ND	4.54	117.58	110.24
23	d	402[A]	CLA	C3C-C4C-NC	4.54	115.66	110.57
23	a	405[B]	CLA	C4A-NA-C1A	-4.53	104.67	106.71
23	b	609	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
23	b	610	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
23	A	406[A]	CLA	C3D-C4D-ND	4.53	117.56	110.24
23	b	608	CLA	C3D-C4D-ND	4.53	117.56	110.24
23	d	402[B]	CLA	C3D-C4D-ND	4.52	117.55	110.24
23	b	616	CLA	C1D-CHD-C4C	-4.52	116.32	126.06
26	a	410[B]	SQD	O6-C1-C2	4.51	115.35	108.30
23	A	406[A]	CLA	O2D-CGD-CBD	4.51	119.28	111.27
25	d	404	BCR	C7-C8-C9	-4.51	119.42	126.23
23	B	601	CLA	C4A-NA-C1A	-4.50	104.68	106.71
23	C	514	CLA	O2D-CGD-CBD	4.50	119.26	111.27
23	c	512	CLA	C2C-C1C-NC	4.49	114.18	109.97
23	c	510	CLA	C1-C2-C3	-4.49	118.27	126.04
23	d	403	CLA	C2C-C1C-NC	4.49	114.18	109.97
23	d	402[A]	CLA	C3D-C4D-ND	4.49	117.50	110.24
23	C	510	CLA	C3D-C2D-C1D	-4.48	99.71	105.83
23	C	514	CLA	C3C-C4C-NC	4.48	115.60	110.57
23	C	507	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
23	D	402[B]	CLA	C3C-C4C-NC	4.46	115.58	110.57
23	b	601	CLA	C2C-C1C-NC	4.46	114.15	109.97
23	b	608	CLA	C1C-C2C-C3C	-4.46	102.27	106.96
38	F	102	HEM	C1B-NB-C4B	4.46	109.68	105.07
23	c	501	CLA	C3D-C4D-ND	4.45	117.44	110.24
23	b	614	CLA	C3C-C4C-NC	4.45	115.56	110.57
23	c	503	CLA	C3C-C4C-NC	4.45	115.56	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	406[A]	CLA	O2D-CGD-CBD	4.44	119.17	111.27
23	b	603	CLA	C3D-C2D-C1D	-4.44	99.77	105.83
23	B	611	CLA	CHD-C4C-NC	4.44	131.20	124.20
23	b	607	CLA	C3C-C4C-NC	4.44	115.55	110.57
23	b	604	CLA	C3C-C4C-NC	4.43	115.54	110.57
23	b	611	CLA	C3D-C4D-ND	4.43	117.40	110.24
23	c	505	CLA	C3D-C4D-ND	4.42	117.40	110.24
23	C	503	CLA	O2D-CGD-CBD	4.42	119.13	111.27
23	b	605	CLA	C3D-C4D-ND	4.42	117.39	110.24
23	c	512	CLA	C3D-C2D-C1D	-4.42	99.80	105.83
23	C	503	CLA	C4A-NA-C1A	-4.42	104.72	106.71
29	a	413[B]	PL9	C7-C3-C4	4.42	120.47	116.88
29	A	414[B]	PL9	C32-C33-C34	-4.42	117.02	127.66
23	C	508	CLA	O2D-CGD-O1D	-4.41	115.22	123.84
23	C	504	CLA	C3D-C4D-ND	4.41	117.37	110.24
23	C	507	CLA	C3D-C4D-ND	4.41	117.37	110.24
23	c	508	CLA	CHD-C1D-ND	-4.40	120.41	124.45
23	c	513	CLA	C3D-C4D-ND	4.40	117.36	110.24
23	B	609	CLA	C3D-C4D-ND	4.40	117.35	110.24
33	C	501	LMG	O1-C1-C2	4.40	115.17	108.30
23	c	502	CLA	C3D-C2D-C1D	-4.40	99.83	105.83
25	h	101	BCR	C7-C8-C9	-4.39	119.59	126.23
23	c	504	CLA	C4A-NA-C1A	-4.39	104.73	106.71
23	a	404[A]	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
23	a	405[A]	CLA	C1C-C2C-C3C	-4.39	102.34	106.96
23	a	405[B]	CLA	C1D-CHD-C4C	-4.39	116.59	126.06
23	C	512	CLA	C3C-C4C-NC	4.39	115.49	110.57
23	D	403	CLA	C3D-C4D-ND	4.39	117.34	110.24
33	C	501	LMG	O7-C10-C11	4.39	120.95	111.50
23	D	402[B]	CLA	O2D-CGD-CBD	4.38	119.06	111.27
23	b	605	CLA	C3C-C4C-NC	4.38	115.49	110.57
23	b	606	CLA	C4-C3-C5	4.38	122.64	115.27
23	B	601	CLA	C3C-C4C-NC	4.38	115.48	110.57
23	c	511	CLA	C3C-C4C-NC	4.38	115.48	110.57
25	b	617	BCR	C33-C5-C6	-4.38	119.61	124.53
23	a	405[A]	CLA	C4A-NA-C1A	-4.38	104.74	106.71
23	B	602	CLA	C3D-C2D-C1D	-4.38	99.86	105.83
23	B	609	CLA	C3D-C2D-C1D	-4.37	99.86	105.83
23	A	406[A]	CLA	C3D-C2D-C1D	-4.37	99.87	105.83
23	A	405[A]	CLA	C3D-C4D-ND	4.36	117.30	110.24
23	B	614	CLA	C1C-C2C-C3C	-4.36	102.37	106.96
23	a	404[B]	CLA	C1D-CHD-C4C	-4.36	116.65	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	E	101[A]	LHG	O7-C7-C8	4.36	120.90	111.50
23	B	607	CLA	C1C-C2C-C3C	-4.36	102.37	106.96
23	c	502	CLA	C3D-C4D-ND	4.36	117.29	110.24
40	v	201	HEC	CBA-CAA-C2A	-4.36	105.26	112.60
23	a	406[A]	CLA	C3C-C4C-NC	4.35	115.45	110.57
23	A	404[B]	CLA	C3D-C2D-C1D	-4.35	99.90	105.83
23	B	613	CLA	O2D-CGD-CBD	4.34	118.99	111.27
23	d	402[A]	CLA	C1C-C2C-C3C	-4.34	102.39	106.96
23	a	408	CLA	CMC-C2C-C1C	4.34	131.65	125.04
23	C	512	CLA	C3D-C2D-C1D	-4.34	99.91	105.83
23	b	610	CLA	C3D-C4D-ND	4.34	117.25	110.24
23	b	615	CLA	C3C-C4C-NC	4.33	115.43	110.57
23	c	501	CLA	C3C-C4C-NC	4.33	115.43	110.57
23	b	601	CLA	C3D-C2D-C1D	-4.33	99.92	105.83
23	B	607	CLA	C3C-C4C-NC	4.33	115.42	110.57
23	D	402[B]	CLA	C1-C2-C3	-4.32	118.56	126.04
23	B	612	CLA	O2D-CGD-O1D	-4.32	115.40	123.84
23	c	512	CLA	C1-C2-C3	-4.32	118.58	126.04
40	v	201	HEC	CBD-CAD-C3D	-4.31	105.26	112.62
23	b	607	CLA	C1C-C2C-C3C	-4.31	102.42	106.96
23	B	602	CLA	C3C-C4C-NC	4.31	115.40	110.57
26	a	410[A]	SQD	C1-C2-C3	-4.31	101.02	110.00
23	b	607	CLA	C4A-NA-C1A	-4.30	104.77	106.71
29	A	414[A]	PL9	C32-C33-C34	-4.30	117.31	127.66
23	c	511	CLA	O2D-CGD-CBD	4.29	118.90	111.27
23	b	610	CLA	O2A-CGA-CBA	4.29	125.38	111.91
23	a	406[A]	CLA	C3D-C4D-ND	4.29	117.17	110.24
23	b	609	CLA	C3D-C4D-ND	4.29	117.17	110.24
23	B	602	CLA	C3D-C4D-ND	4.28	117.17	110.24
23	a	404[A]	CLA	C3D-C4D-ND	4.28	117.17	110.24
33	m	101	LMG	O7-C10-C11	4.28	120.72	111.50
23	C	503	CLA	C3D-C2D-C1D	-4.28	99.99	105.83
23	C	513	CLA	C3D-C4D-ND	4.28	117.15	110.24
23	C	512	CLA	C1D-CHD-C4C	-4.27	116.84	126.06
23	b	612	CLA	C1-C2-C3	-4.27	118.66	126.04
26	a	410[A]	SQD	O9-S-C6	4.27	112.01	106.94
23	C	509	CLA	O2D-CGD-CBD	4.27	118.85	111.27
32	E	101[B]	LHG	O7-C7-C8	4.26	120.69	111.50
23	C	514	CLA	C3D-C4D-ND	4.26	117.13	110.24
23	a	404[A]	CLA	C3D-C2D-C1D	-4.26	100.02	105.83
23	b	616	CLA	C3C-C4C-NC	4.26	115.34	110.57
23	D	402[B]	CLA	C3D-C4D-ND	4.25	117.11	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	603	CLA	C3D-C4D-ND	4.25	117.11	110.24
23	c	509	CLA	C3D-C2D-C1D	-4.25	100.04	105.83
23	c	511	CLA	C1D-CHD-C4C	-4.25	116.90	126.06
23	C	502	CLA	C3D-C4D-ND	4.25	117.11	110.24
23	A	405[B]	CLA	C3D-C4D-ND	4.24	117.10	110.24
23	b	602	CLA	C3D-C2D-C1D	-4.24	100.04	105.83
23	C	511	CLA	C4A-NA-C1A	-4.24	104.80	106.71
23	b	612	CLA	C3D-C4D-ND	4.24	117.10	110.24
23	c	506	CLA	C3D-C4D-ND	4.24	117.10	110.24
23	C	503	CLA	C3C-C4C-NC	4.23	115.32	110.57
33	Z	101	LMG	O7-C10-C11	4.23	120.62	111.50
23	b	604	CLA	C3D-C2D-C1D	-4.23	100.06	105.83
23	C	506	CLA	C3D-C4D-ND	4.23	117.08	110.24
23	c	509	CLA	C4A-NA-C1A	-4.23	104.81	106.71
23	B	607	CLA	C3D-C4D-ND	4.23	117.07	110.24
23	d	402[A]	CLA	C3D-C2D-C1D	-4.22	100.07	105.83
23	B	601	CLA	C2C-C1C-NC	4.22	113.92	109.97
25	d	404	BCR	C29-C30-C25	4.21	116.97	110.48
23	c	511	CLA	C3D-C4D-ND	4.21	117.06	110.24
23	a	405[A]	CLA	C3C-C4C-NC	4.21	115.29	110.57
23	b	606	CLA	O2D-CGD-O1D	-4.21	115.61	123.84
23	B	608	CLA	C3C-C4C-NC	4.21	115.29	110.57
23	C	503	CLA	C1C-C2C-C3C	-4.20	102.54	106.96
23	C	508	CLA	C3C-C4C-NC	4.20	115.28	110.57
33	c	520	LMG	O7-C10-C11	4.19	120.54	111.50
23	B	614	CLA	C1D-CHD-C4C	-4.19	117.02	126.06
23	B	615	CLA	C3C-C4C-NC	4.19	115.27	110.57
23	c	507	CLA	C1C-C2C-C3C	-4.19	102.56	106.96
23	B	605	CLA	C1D-CHD-C4C	-4.18	117.03	126.06
23	d	403	CLA	C3D-C4D-ND	4.18	117.00	110.24
23	C	513	CLA	C1D-CHD-C4C	-4.18	117.03	126.06
32	A	419[A]	LHG	O8-C23-O10	-4.18	113.04	123.59
23	A	405[B]	CLA	C1C-C2C-C3C	-4.18	102.56	106.96
23	B	612	CLA	C3D-C2D-C1D	-4.18	100.13	105.83
23	C	506	CLA	C3D-C2D-C1D	-4.18	100.13	105.83
23	C	505	CLA	C4A-NA-C1A	-4.18	104.83	106.71
23	C	514	CLA	C1C-C2C-C3C	-4.17	102.57	106.96
23	C	505	CLA	C3D-C4D-ND	4.17	116.98	110.24
23	d	402[B]	CLA	C3D-C2D-C1D	-4.17	100.15	105.83
23	b	605	CLA	O2D-CGD-O1D	-4.16	115.70	123.84
23	C	513	CLA	C1-C2-C3	-4.16	118.84	126.04
23	b	614	CLA	C3D-C4D-ND	4.16	116.97	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	606	CLA	C3D-C4D-ND	4.16	116.97	110.24
23	c	512	CLA	C3C-C4C-NC	4.16	115.23	110.57
23	B	606	CLA	C3C-C4C-NC	4.16	115.23	110.57
23	b	616	CLA	O2D-CGD-O1D	-4.16	115.71	123.84
23	C	509	CLA	C1-C2-C3	-4.15	118.86	126.04
23	C	507	CLA	C1-C2-C3	-4.15	118.86	126.04
23	c	513	CLA	O2D-CGD-CBD	4.15	118.64	111.27
23	c	503	CLA	C1D-CHD-C4C	-4.15	117.11	126.06
23	b	608	CLA	C3D-C2D-C1D	-4.15	100.17	105.83
23	a	404[A]	CLA	C1D-CHD-C4C	-4.14	117.12	126.06
23	B	612	CLA	C3D-C4D-ND	4.14	116.94	110.24
23	D	403	CLA	O2D-CGD-O1D	-4.14	115.75	123.84
23	B	605	CLA	C3D-C4D-ND	4.14	116.93	110.24
23	b	609	CLA	O2D-CGD-CBD	4.14	118.62	111.27
29	a	413[A]	PL9	C7-C3-C4	4.13	120.24	116.88
23	b	611	CLA	O2D-CGD-O1D	-4.13	115.76	123.84
23	D	403	CLA	C3C-C4C-NC	4.13	115.20	110.57
23	C	505	CLA	C3C-C4C-NC	4.13	115.20	110.57
23	b	607	CLA	O2D-CGD-CBD	4.13	118.60	111.27
23	b	615	CLA	C3D-C4D-ND	4.13	116.91	110.24
23	b	606	CLA	C1D-CHD-C4C	-4.13	117.16	126.06
23	B	610	CLA	CAA-C2A-C3A	-4.12	101.48	112.78
23	b	602	CLA	C3C-C4C-NC	4.12	115.19	110.57
23	a	405[B]	CLA	C3D-C4D-ND	4.12	116.91	110.24
23	a	405[A]	CLA	C3D-C4D-ND	4.12	116.91	110.24
23	C	509	CLA	C1C-C2C-C3C	-4.12	102.62	106.96
23	B	609	CLA	O2D-CGD-CBD	4.12	118.59	111.27
23	c	509	CLA	C3D-C4D-ND	4.11	116.89	110.24
23	b	615	CLA	C1D-CHD-C4C	-4.11	117.18	126.06
33	d	411	LMG	O7-C10-C11	4.11	120.37	111.50
23	c	513	CLA	C1D-CHD-C4C	-4.11	117.19	126.06
23	b	608	CLA	CMC-C2C-C1C	4.11	131.30	125.04
23	c	502	CLA	O2D-CGD-O1D	-4.11	115.81	123.84
23	c	512	CLA	C3D-C4D-ND	4.11	116.88	110.24
24	A	416[B]	PHO	C1-C2-C3	-4.11	118.94	126.04
23	c	513	CLA	C3C-C4C-NC	4.11	115.18	110.57
23	C	503	CLA	C3D-C4D-ND	4.11	116.88	110.24
23	c	503	CLA	C3D-C4D-ND	4.11	116.88	110.24
23	A	404[B]	CLA	C3C-C4C-NC	4.11	115.17	110.57
23	B	616	CLA	C3B-C4B-NB	4.10	114.52	109.21
23	c	504	CLA	C1-O2A-CGA	4.10	127.21	116.44
23	c	506	CLA	O2D-CGD-CBD	4.10	118.56	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	611	CLA	C3C-C4C-NC	4.10	115.17	110.57
23	c	505	CLA	C3D-C2D-C1D	-4.10	100.24	105.83
25	k	101	BCR	C29-C30-C25	4.10	116.79	110.48
23	C	504	CLA	O2D-CGD-CBD	4.10	118.55	111.27
23	b	602	CLA	C2C-C1C-NC	4.09	113.81	109.97
23	c	507	CLA	C3C-C4C-NC	4.09	115.16	110.57
23	d	402[A]	CLA	O2D-CGD-CBD	4.09	118.53	111.27
23	a	405[A]	CLA	CAA-C2A-C3A	-4.09	101.59	112.78
23	C	511	CLA	C3B-C4B-NB	4.09	114.49	109.21
23	b	602	CLA	O2D-CGD-O1D	-4.08	115.86	123.84
23	A	408	CLA	C3D-C4D-ND	4.08	116.84	110.24
23	a	408	CLA	C1C-C2C-C3C	-4.08	102.67	106.96
24	A	407[A]	PHO	C1A-C2A-C3A	-4.08	98.96	102.84
23	A	404[B]	CLA	O2D-CGD-CBD	4.07	118.50	111.27
23	D	402[A]	CLA	C3D-C4D-ND	4.07	116.82	110.24
23	B	604	CLA	C1D-CHD-C4C	-4.07	117.28	126.06
23	C	512	CLA	CHD-C1D-ND	-4.07	120.71	124.45
24	A	416[A]	PHO	C1-C2-C3	-4.07	119.00	126.04
23	b	608	CLA	CMB-C2B-C3B	4.07	132.28	124.68
23	D	402[A]	CLA	O2D-CGD-CBD	4.06	118.49	111.27
33	C	521	LMG	O6-C5-C4	4.06	117.07	109.69
23	a	404[A]	CLA	CAA-C2A-C3A	-4.06	101.65	112.78
23	a	405[A]	CLA	C1D-CHD-C4C	-4.06	117.30	126.06
23	A	404[B]	CLA	C3B-C4B-NB	4.06	114.46	109.21
23	C	510	CLA	C3D-C4D-ND	4.06	116.80	110.24
23	c	509	CLA	C3C-C4C-NC	4.05	115.12	110.57
23	C	509	CLA	C3D-C4D-ND	4.05	116.79	110.24
23	B	605	CLA	C4-C3-C5	4.05	122.08	115.27
23	B	602	CLA	O2D-CGD-O1D	-4.05	115.92	123.84
23	c	507	CLA	C3D-C4D-ND	4.05	116.79	110.24
23	b	603	CLA	C1D-CHD-C4C	-4.05	117.33	126.06
23	b	607	CLA	C3D-C4D-ND	4.04	116.78	110.24
26	a	410[A]	SQD	C44-O6-C1	-4.04	105.84	113.74
23	B	616	CLA	CHD-C1D-ND	-4.04	120.75	124.45
38	F	102	HEM	CHC-C4B-NB	4.03	128.81	124.43
23	A	404[A]	CLA	C3D-C4D-ND	4.03	116.75	110.24
23	a	404[A]	CLA	C3C-C4C-NC	4.03	115.09	110.57
29	a	413[A]	PL9	C32-C33-C34	-4.03	117.96	127.66
23	b	614	CLA	O2D-CGD-O1D	-4.02	115.98	123.84
23	c	512	CLA	C1D-CHD-C4C	-4.02	117.39	126.06
23	a	404[B]	CLA	C3B-C4B-NB	4.01	114.39	109.21
23	B	611	CLA	CMB-C2B-C3B	4.01	132.18	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	505	CLA	C3B-C4B-NB	4.01	114.39	109.21
23	C	504	CLA	C3C-C4C-NC	4.01	115.06	110.57
23	A	404[A]	CLA	C1C-C2C-C3C	-4.01	102.74	106.96
33	C	521	LMG	O7-C10-C11	4.01	120.14	111.50
23	C	509	CLA	C4A-NA-C1A	-4.01	104.91	106.71
26	f	102	SQD	C1-O5-C5	4.01	121.55	113.69
23	B	606	CLA	C1C-C2C-C3C	-4.01	102.75	106.96
23	B	616	CLA	C3D-C4D-ND	4.00	116.72	110.24
23	C	506	CLA	C1D-CHD-C4C	-4.00	117.42	126.06
23	B	604	CLA	C1C-C2C-C3C	-4.00	102.75	106.96
35	C	518[A]	DGD	O2G-C1B-C2B	4.00	120.12	111.50
23	c	504	CLA	C3D-C4D-ND	4.00	116.71	110.24
23	C	502	CLA	C1D-CHD-C4C	-4.00	117.43	126.06
23	A	404[A]	CLA	C3B-C4B-NB	4.00	114.38	109.21
23	b	610	CLA	O2D-CGD-O1D	-4.00	116.02	123.84
23	B	616	CLA	C4C-C3C-C2C	-4.00	101.07	106.90
23	c	506	CLA	C1C-C2C-C3C	-4.00	102.76	106.96
23	A	408	CLA	C1C-C2C-C3C	-3.99	102.76	106.96
23	B	602	CLA	C1C-C2C-C3C	-3.99	102.76	106.96
23	c	509	CLA	C3B-C4B-NB	3.99	114.36	109.21
23	C	512	CLA	O2D-CGD-O1D	-3.98	116.05	123.84
23	b	616	CLA	C3D-C4D-ND	3.98	116.68	110.24
29	D	405[B]	PL9	C42-C43-C44	-3.98	118.07	127.66
23	b	610	CLA	C1D-CHD-C4C	-3.98	117.47	126.06
23	d	403	CLA	C3C-C4C-NC	3.97	115.03	110.57
23	C	510	CLA	C1-C2-C3	-3.97	119.17	126.04
29	a	413[B]	PL9	C32-C33-C34	-3.97	118.10	127.66
33	c	520	LMG	O6-C5-C4	3.97	116.90	109.69
23	B	611	CLA	C1D-CHD-C4C	-3.97	117.50	126.06
35	C	517[A]	DGD	O2G-C1B-C2B	3.97	120.05	111.50
23	b	606	CLA	C3D-C4D-ND	3.96	116.65	110.24
23	A	406[A]	CLA	C3C-C4C-NC	3.96	115.02	110.57
23	b	601	CLA	C1D-CHD-C4C	-3.96	117.51	126.06
26	a	411	SQD	O47-C7-C8	3.96	120.04	111.50
23	c	511	CLA	C4A-NA-C1A	-3.96	104.93	106.71
25	d	404	BCR	C40-C30-C25	-3.96	103.88	110.30
23	c	507	CLA	CMC-C2C-C1C	3.96	131.06	125.04
23	B	615	CLA	CMC-C2C-C1C	3.96	131.06	125.04
38	f	101	HEM	CAD-CBD-CGD	3.96	122.11	113.60
26	A	410[A]	SQD	O9-S-C6	3.96	111.64	106.94
25	K	102	BCR	C7-C8-C9	-3.95	120.26	126.23
23	B	613	CLA	C3D-C4D-ND	3.95	116.63	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	V	201	HEC	CBA-CAA-C2A	-3.95	105.95	112.60
23	b	613	CLA	C1C-C2C-C3C	-3.95	102.80	106.96
23	c	508	CLA	C3D-C4D-ND	3.95	116.62	110.24
23	C	513	CLA	C2C-C1C-NC	3.95	113.67	109.97
23	b	616	CLA	O2A-CGA-CBA	3.94	124.29	111.91
23	A	405[A]	CLA	CMC-C2C-C1C	3.94	131.04	125.04
23	B	608	CLA	C3D-C4D-ND	3.94	116.61	110.24
23	b	613	CLA	C1-C2-C3	-3.93	119.24	126.04
23	c	508	CLA	C1C-C2C-C3C	-3.93	102.83	106.96
23	A	404[A]	CLA	C3C-C4C-NC	3.93	114.98	110.57
23	A	404[B]	CLA	C3D-C4D-ND	3.93	116.59	110.24
23	A	406[B]	CLA	C3C-C4C-NC	3.93	114.97	110.57
23	C	509	CLA	CHD-C1D-ND	-3.93	120.85	124.45
23	c	508	CLA	C1D-CHD-C4C	-3.93	117.59	126.06
23	c	506	CLA	C3C-C4C-NC	3.93	114.97	110.57
23	b	612	CLA	O2D-CGD-CBD	3.92	118.24	111.27
23	B	614	CLA	C3B-C4B-NB	3.92	114.28	109.21
23	c	502	CLA	C3C-C4C-NC	3.92	114.97	110.57
23	A	405[B]	CLA	C4A-NA-C1A	-3.92	104.94	106.71
23	b	608	CLA	O2D-CGD-O1D	-3.92	116.18	123.84
23	b	610	CLA	C4A-NA-C1A	-3.92	104.94	106.71
33	Z	101	LMG	C1-C2-C3	3.92	118.15	110.00
32	A	419[B]	LHG	O7-C7-C8	3.92	119.94	111.50
23	b	607	CLA	C3B-C4B-NB	3.91	114.27	109.21
23	b	612	CLA	C4-C3-C5	3.90	121.83	115.27
23	A	406[A]	CLA	C1C-C2C-C3C	-3.89	102.87	106.96
35	C	518[B]	DGD	O2G-C1B-C2B	3.89	119.89	111.50
23	a	404[B]	CLA	C3C-C4C-NC	3.89	114.93	110.57
23	D	403	CLA	C1D-CHD-C4C	-3.89	117.67	126.06
33	c	520	LMG	C3-C4-C5	3.89	117.17	110.24
23	b	612	CLA	C3D-C2D-C1D	-3.88	100.53	105.83
23	C	510	CLA	C1C-C2C-C3C	-3.88	102.88	106.96
23	a	404[A]	CLA	O2D-CGD-CBD	3.88	118.16	111.27
34	b	625	HTG	C1-O5-C5	3.88	119.73	112.58
23	B	601	CLA	C1D-CHD-C4C	-3.87	117.70	126.06
26	A	410[B]	SQD	C1-C2-C3	-3.87	101.93	110.00
35	c	516[B]	DGD	O2G-C1B-C2B	3.87	119.85	111.50
25	c	514	BCR	C11-C10-C9	-3.87	121.79	127.31
23	b	614	CLA	C1D-CHD-C4C	-3.87	117.71	126.06
23	B	608	CLA	O2D-CGD-O1D	-3.87	116.28	123.84
26	A	412	SQD	O8-S-C6	3.87	111.90	105.74
26	A	410[B]	SQD	O47-C7-C8	3.87	119.83	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	408	CLA	O2D-CGD-CBD	3.86	118.12	111.27
23	b	602	CLA	CMC-C2C-C1C	3.86	130.91	125.04
23	B	611	CLA	O2D-CGD-O1D	-3.85	116.31	123.84
23	B	613	CLA	CAC-C3C-C4C	3.85	129.81	124.81
31	B	627	LMT	C1'-O5'-C5'	-3.85	106.13	113.69
23	a	405[B]	CLA	C3C-C4C-NC	3.85	114.89	110.57
23	B	615	CLA	C1D-CHD-C4C	-3.85	117.75	126.06
34	V	202	HTG	C1-O5-C5	3.85	117.40	112.19
23	a	406[B]	CLA	C3C-C4C-NC	3.84	114.88	110.57
23	b	609	CLA	CAC-C3C-C4C	3.84	129.79	124.81
23	B	615	CLA	C1C-C2C-C3C	-3.83	102.93	106.96
23	a	404[B]	CLA	O2D-CGD-CBD	3.83	118.07	111.27
29	A	414[A]	PL9	C7-C3-C4	3.83	119.99	116.88
23	A	404[A]	CLA	CAA-C2A-C3A	-3.83	102.30	112.78
23	b	601	CLA	O2D-CGD-O1D	-3.83	116.36	123.84
23	A	405[A]	CLA	C3C-C4C-NC	3.83	114.86	110.57
23	B	602	CLA	CMC-C2C-C1C	3.82	130.86	125.04
23	B	614	CLA	C3C-C4C-NC	3.82	114.86	110.57
23	c	509	CLA	C1D-CHD-C4C	-3.82	117.81	126.06
23	d	402[B]	CLA	C1D-CHD-C4C	-3.82	117.81	126.06
25	B	618	BCR	C29-C30-C25	3.82	116.37	110.48
23	b	601	CLA	C3C-C4C-NC	3.82	114.86	110.57
23	B	606	CLA	O2D-CGD-O1D	-3.82	116.37	123.84
23	c	509	CLA	C1C-C2C-C3C	-3.82	102.94	106.96
23	c	513	CLA	C3B-C4B-NB	3.81	114.14	109.21
23	A	405[B]	CLA	C3C-C4C-NC	3.81	114.84	110.57
23	c	506	CLA	C1-C2-C3	-3.81	119.45	126.04
23	B	610	CLA	C3D-C4D-ND	3.81	116.40	110.24
23	B	602	CLA	C1D-CHD-C4C	-3.81	117.85	126.06
26	B	620	SQD	C3-C4-C5	3.80	117.03	110.24
23	B	616	CLA	C1D-CHD-C4C	-3.80	117.85	126.06
23	A	404[B]	CLA	CAA-C2A-C3A	-3.80	102.37	112.78
29	a	413[B]	PL9	C7-C8-C9	-3.80	120.47	126.79
23	b	602	CLA	C1D-CHD-C4C	-3.80	117.86	126.06
23	c	503	CLA	O2D-CGD-CBD	3.80	118.02	111.27
23	B	608	CLA	C3B-C4B-NB	3.79	114.11	109.21
23	b	605	CLA	C1C-C2C-C3C	-3.79	102.97	106.96
23	A	404[A]	CLA	O2A-CGA-CBA	3.79	123.81	111.91
23	c	504	CLA	C3B-C4B-NB	3.79	114.11	109.21
23	b	603	CLA	O2D-CGD-O1D	-3.79	116.43	123.84
23	a	405[B]	CLA	CAA-C2A-C3A	-3.78	102.41	112.78
23	C	511	CLA	C1D-CHD-C4C	-3.78	117.90	126.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	511	CLA	C3B-C4B-NB	3.78	114.10	109.21
32	L	101[B]	LHG	O7-C7-C8	3.78	119.65	111.50
24	A	416[B]	PHO	C1A-C2A-C3A	-3.78	99.25	102.84
23	A	404[A]	CLA	C1D-CHD-C4C	-3.77	117.92	126.06
23	C	508	CLA	C3D-C4D-ND	3.77	116.34	110.24
24	A	407[B]	PHO	C1A-C2A-C3A	-3.77	99.25	102.84
26	B	620	SQD	O7-S-C6	3.77	111.42	106.94
23	A	405[B]	CLA	C1D-CHD-C4C	-3.77	117.93	126.06
33	a	416	LMG	C8-O7-C10	-3.76	108.53	117.79
23	B	606	CLA	C1D-CHD-C4C	-3.76	117.94	126.06
29	a	413[A]	PL9	C15-C14-C16	3.76	121.60	115.27
23	D	402[A]	CLA	C1-C2-C3	-3.76	119.54	126.04
23	C	509	CLA	C3B-C4B-NB	3.76	114.07	109.21
32	D	407[B]	LHG	O7-C7-C8	3.76	119.60	111.50
23	B	603	CLA	C1D-CHD-C4C	-3.76	117.95	126.06
23	B	603	CLA	O2D-CGD-O1D	-3.76	116.49	123.84
23	c	510	CLA	C3D-C4D-ND	3.76	116.32	110.24
23	C	502	CLA	C3C-C4C-NC	3.76	114.78	110.57
23	a	408	CLA	C1D-CHD-C4C	-3.75	117.97	126.06
23	A	405[A]	CLA	CBC-CAC-C3C	-3.75	102.10	112.43
23	C	511	CLA	O2D-CGD-O1D	-3.75	116.52	123.84
23	B	605	CLA	CHD-C4C-NC	3.74	130.10	124.20
23	b	612	CLA	C1C-C2C-C3C	-3.74	103.02	106.96
23	C	508	CLA	C1D-CHD-C4C	-3.74	117.98	126.06
34	b	622	HTG	O2-C2-C1	3.74	117.14	110.27
23	B	609	CLA	C1C-C2C-C3C	-3.74	103.03	106.96
23	B	614	CLA	C3D-C4D-ND	3.74	116.29	110.24
23	b	603	CLA	C1C-C2C-C3C	-3.74	103.03	106.96
23	b	616	CLA	CBC-CAC-C3C	-3.74	102.13	112.43
23	C	507	CLA	C3C-C4C-NC	3.74	114.76	110.57
23	c	506	CLA	C3B-C4B-NB	3.74	114.04	109.21
23	c	505	CLA	CAC-C3C-C4C	3.74	129.66	124.81
38	f	101	HEM	C1B-NB-C4B	3.74	108.93	105.07
32	d	413[A]	LHG	O8-C23-O10	-3.73	114.17	123.59
34	b	622	HTG	C1'-S1-C1	3.73	107.07	100.09
23	b	603	CLA	CAA-C2A-C3A	-3.73	102.56	112.78
25	h	101	BCR	C38-C26-C25	-3.73	120.34	124.53
26	A	412	SQD	O47-C7-C8	3.73	119.54	111.50
23	b	609	CLA	C1D-CHD-C4C	-3.73	118.01	126.06
26	a	410[B]	SQD	C1-O5-C5	-3.73	106.37	113.69
29	A	414[B]	PL9	C15-C14-C16	3.73	121.54	115.27
23	b	610	CLA	CAA-C2A-C3A	-3.73	102.57	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	F	102	HEM	CHD-C1D-ND	3.73	128.48	124.43
23	B	612	CLA	CAC-C3C-C4C	3.72	129.64	124.81
23	c	510	CLA	C1C-C2C-C3C	-3.72	103.04	106.96
23	c	505	CLA	O2D-CGD-O1D	-3.72	116.57	123.84
23	A	404[A]	CLA	O2D-CGD-CBD	3.72	117.88	111.27
23	B	604	CLA	C3D-C2D-C1D	-3.72	100.76	105.83
25	H	101	BCR	C16-C17-C18	-3.72	122.01	127.31
23	c	510	CLA	CMC-C2C-C1C	3.72	130.70	125.04
23	C	504	CLA	C1D-CHD-C4C	-3.71	118.04	126.06
23	c	508	CLA	C1-C2-C3	-3.71	119.62	126.04
23	D	402[A]	CLA	C3B-C4B-NB	3.71	114.01	109.21
38	f	101	HEM	CHA-C4D-ND	3.71	128.97	124.38
32	L	101[A]	LHG	O7-C7-C8	3.71	119.50	111.50
23	b	609	CLA	C4C-C3C-C2C	-3.71	101.49	106.90
23	B	612	CLA	C4C-C3C-C2C	-3.71	101.49	106.90
29	a	413[A]	PL9	C7-C3-C2	-3.71	118.42	123.30
23	B	611	CLA	C2A-C1A-CHA	-3.71	117.38	123.86
29	a	413[B]	PL9	C7-C3-C2	-3.71	118.43	123.30
32	b	629[B]	LHG	O7-C7-C8	3.70	119.48	111.50
23	C	503	CLA	C1-C2-C3	-3.70	119.64	126.04
23	C	506	CLA	CAC-C3C-C4C	3.70	129.62	124.81
23	B	604	CLA	C3D-C4D-ND	3.70	116.23	110.24
23	b	612	CLA	C3B-C4B-NB	3.70	113.99	109.21
23	D	402[B]	CLA	C1C-C2C-C3C	-3.70	103.07	106.96
23	c	502	CLA	CMC-C2C-C1C	3.69	130.66	125.04
29	a	413[B]	PL9	C15-C14-C16	3.69	121.48	115.27
23	d	402[B]	CLA	C1C-C2C-C3C	-3.69	103.08	106.96
23	b	603	CLA	C3B-C4B-NB	3.69	113.98	109.21
23	B	613	CLA	C3B-C4B-NB	3.69	113.97	109.21
23	a	404[B]	CLA	C1C-C2C-C3C	-3.68	103.08	106.96
23	b	613	CLA	O2A-CGA-O1A	-3.68	114.30	123.59
25	c	514	BCR	C15-C14-C13	-3.68	122.05	127.31
31	B	627	LMT	C4B-C3B-C2B	3.68	117.25	110.82
23	c	510	CLA	C1D-CHD-C4C	-3.68	118.12	126.06
25	D	404	BCR	C28-C27-C26	-3.68	107.51	114.08
33	c	519	LMG	O7-C10-C11	3.67	119.42	111.50
23	B	605	CLA	O2A-CGA-O1A	-3.67	114.33	123.59
26	A	410[A]	SQD	C44-O6-C1	-3.67	106.57	113.74
29	a	413[A]	PL9	C30-C29-C31	3.67	121.44	115.27
29	D	405[A]	PL9	C42-C43-C44	-3.67	118.83	127.66
23	a	404[A]	CLA	CMB-C2B-C3B	3.67	131.54	124.68
23	b	606	CLA	C1C-C2C-C3C	-3.67	103.10	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	F	103	SQD	O7-S-C6	3.66	111.29	106.94
23	D	402[A]	CLA	C1C-C2C-C3C	-3.66	103.11	106.96
40	v	201	HEC	CMC-C2C-C1C	-3.66	122.84	128.46
25	C	515	BCR	C7-C8-C9	-3.66	120.71	126.23
25	B	617	BCR	C33-C5-C6	-3.66	120.42	124.53
23	A	408	CLA	C3B-C4B-NB	3.66	113.94	109.21
25	T	101	BCR	C11-C10-C9	-3.66	122.09	127.31
29	A	414[A]	PL9	C15-C14-C16	3.65	121.41	115.27
29	D	405[B]	PL9	C10-C9-C11	3.65	121.41	115.27
25	C	516	BCR	C7-C8-C9	-3.65	120.72	126.23
23	B	611	CLA	CHB-C4A-NA	3.65	129.56	124.51
23	B	602	CLA	CAA-C2A-C3A	-3.65	102.79	112.78
23	A	408	CLA	CAA-C2A-C3A	-3.65	102.79	112.78
23	b	610	CLA	O2A-CGA-O1A	-3.65	114.39	123.59
23	b	612	CLA	C1D-CHD-C4C	-3.64	118.20	126.06
38	F	102	HEM	CBD-CAD-C3D	-3.64	102.50	112.63
29	a	413[B]	PL9	C27-C28-C29	-3.64	118.89	127.66
23	a	406[B]	CLA	C1-C2-C3	-3.64	119.75	126.04
23	a	406[A]	CLA	C1C-C2C-C3C	-3.64	103.13	106.96
35	c	516[A]	DGD	O2G-C1B-C2B	3.64	119.34	111.50
23	c	507	CLA	O2D-CGD-O1D	-3.63	116.73	123.84
23	A	406[B]	CLA	C1D-CHD-C4C	-3.63	118.22	126.06
26	B	620	SQD	C1-O5-C5	-3.63	106.56	113.69
23	C	507	CLA	C3B-C4B-NB	3.63	113.91	109.21
23	B	610	CLA	C1C-C2C-C3C	-3.63	103.14	106.96
23	a	406[A]	CLA	C1D-CHD-C4C	-3.63	118.23	126.06
23	B	613	CLA	C4A-NA-C1A	-3.63	105.08	106.71
23	b	604	CLA	C3D-C4D-ND	3.63	116.10	110.24
23	C	514	CLA	C3B-C4B-NB	3.62	113.89	109.21
23	B	614	CLA	O2D-CGD-O1D	-3.62	116.77	123.84
23	b	605	CLA	C1D-CHD-C4C	-3.62	118.26	126.06
23	a	404[A]	CLA	O2A-CGA-O1A	-3.62	114.47	123.59
23	B	613	CLA	O2D-CGD-O1D	-3.62	116.77	123.84
23	c	505	CLA	C4C-C3C-C2C	-3.61	101.63	106.90
23	C	505	CLA	C1-O2A-CGA	3.61	125.92	116.44
23	b	614	CLA	C1-C2-C3	-3.61	119.80	126.04
23	C	509	CLA	C1D-CHD-C4C	-3.61	118.27	126.06
23	B	605	CLA	C1C-C2C-C3C	-3.60	103.17	106.96
32	d	413[A]	LHG	O8-C23-C24	3.60	123.21	111.91
23	c	506	CLA	CAC-C3C-C4C	3.60	129.48	124.81
23	c	511	CLA	C4-C3-C5	3.60	121.32	115.27
33	C	520	LMG	O7-C10-C11	3.59	119.25	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	514	CLA	C1D-CHD-C4C	-3.59	118.31	126.06
25	T	101	BCR	C15-C16-C17	-3.59	116.12	123.47
29	d	405[B]	PL9	C7-C3-C4	3.59	119.79	116.88
23	b	612	CLA	CAC-C3C-C4C	3.59	129.46	124.81
29	d	405[A]	PL9	C42-C43-C44	-3.59	119.02	127.66
23	c	502	CLA	C1D-CHD-C4C	-3.58	118.33	126.06
29	A	414[B]	PL9	C37-C38-C39	-3.58	119.03	127.66
23	A	408	CLA	C1-C2-C3	-3.58	119.85	126.04
23	B	607	CLA	O2D-CGD-O1D	-3.58	116.84	123.84
23	B	609	CLA	CBC-CAC-C3C	-3.58	102.57	112.43
23	A	406[B]	CLA	C1C-C2C-C3C	-3.58	103.20	106.96
26	A	410[B]	SQD	C44-O6-C1	-3.58	106.75	113.74
33	B	621	LMG	O8-C28-C29	3.58	123.13	111.91
29	A	414[A]	PL9	C22-C23-C24	-3.57	119.05	127.66
23	b	612	CLA	CMC-C2C-C1C	3.57	130.48	125.04
25	y	101	BCR	C38-C26-C25	-3.57	120.52	124.53
29	d	405[A]	PL9	C40-C39-C41	3.57	121.28	115.27
23	C	503	CLA	C1D-CHD-C4C	-3.57	118.36	126.06
23	b	602	CLA	CAA-C2A-C3A	-3.57	103.00	112.78
35	c	517[A]	DGD	O2G-C1B-C2B	3.57	119.19	111.50
23	B	608	CLA	C1C-C2C-C3C	-3.57	103.21	106.96
25	C	515	BCR	C15-C14-C13	-3.56	122.22	127.31
23	B	603	CLA	C1C-C2C-C3C	-3.56	103.21	106.96
23	b	614	CLA	C1C-C2C-C3C	-3.56	103.22	106.96
23	A	405[A]	CLA	C1D-CHD-C4C	-3.56	118.38	126.06
26	F	103	SQD	C44-O6-C1	-3.56	106.79	113.74
23	b	610	CLA	C4C-C3C-C2C	-3.56	101.71	106.90
23	b	608	CLA	C3B-C4B-NB	3.56	113.81	109.21
29	A	414[B]	PL9	C22-C23-C24	-3.56	119.10	127.66
35	c	517[B]	DGD	O2G-C1B-C2B	3.55	119.16	111.50
23	a	406[B]	CLA	C1C-C2C-C3C	-3.55	103.22	106.96
26	A	410[A]	SQD	O47-C7-C8	3.55	119.16	111.50
33	C	521	LMG	C3-C4-C5	3.55	116.58	110.24
23	b	613	CLA	O2D-CGD-CBD	3.55	117.58	111.27
23	c	504	CLA	C1D-CHD-C4C	-3.55	118.39	126.06
23	b	608	CLA	C1D-CHD-C4C	-3.55	118.40	126.06
29	A	414[A]	PL9	C7-C3-C2	-3.55	118.63	123.30
23	B	614	CLA	CMC-C2C-C1C	3.55	130.44	125.04
23	d	403	CLA	C1C-C2C-C3C	-3.55	103.23	106.96
26	A	410[B]	SQD	O9-S-C6	3.54	111.15	106.94
23	B	616	CLA	CAC-C3C-C4C	3.54	129.40	124.81
23	b	615	CLA	C1C-C2C-C3C	-3.54	103.23	106.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	406[A]	CLA	C1D-CHD-C4C	-3.54	118.42	126.06
23	B	607	CLA	CBC-CAC-C3C	-3.54	102.68	112.43
40	V	201	HEC	CMC-C2C-C1C	-3.53	123.03	128.46
23	B	606	CLA	CMC-C2C-C1C	3.53	130.42	125.04
23	B	608	CLA	CAC-C3C-C4C	3.53	129.39	124.81
23	B	613	CLA	C4-C3-C5	3.53	121.21	115.27
23	C	511	CLA	C1-C2-C3	-3.53	119.94	126.04
23	b	604	CLA	O2D-CGD-O1D	-3.53	116.94	123.84
31	A	417	LMT	O5B-C5B-C4B	3.53	116.10	109.69
23	C	513	CLA	C4-C3-C5	3.52	121.20	115.27
25	d	404	BCR	C15-C14-C13	-3.52	122.28	127.31
23	A	405[A]	CLA	CAA-C2A-C3A	-3.52	103.13	112.78
23	a	408	CLA	O2D-CGD-O1D	-3.52	116.95	123.84
23	b	613	CLA	C3B-C4B-NB	3.52	113.76	109.21
23	c	504	CLA	C4C-C3C-C2C	-3.52	101.77	106.90
23	b	605	CLA	CHD-C4C-NC	3.52	129.75	124.20
25	b	619	BCR	C24-C23-C22	-3.52	120.92	126.23
32	d	407[B]	LHG	O7-C7-C8	3.51	119.07	111.50
23	C	506	CLA	C1-C2-C3	-3.51	119.97	126.04
23	B	602	CLA	C3B-C4B-NB	3.51	113.75	109.21
23	c	506	CLA	C1D-CHD-C4C	-3.51	118.49	126.06
34	o	301	HTG	O5-C1-C2	3.51	114.73	110.31
33	c	520	LMG	C9-C8-C7	-3.51	103.50	111.79
23	C	502	CLA	C1C-C2C-C3C	-3.51	103.27	106.96
23	B	605	CLA	C4C-C3C-C2C	-3.50	101.79	106.90
23	d	402[A]	CLA	C3B-C4B-NB	3.50	113.73	109.21
23	b	606	CLA	C1-C2-C3	-3.50	119.99	126.04
23	B	610	CLA	O2A-CGA-O1A	-3.50	114.76	123.59
32	A	419[A]	LHG	O7-C7-C8	3.50	119.04	111.50
23	C	507	CLA	O2D-CGD-O1D	-3.50	117.00	123.84
23	B	604	CLA	CHD-C1D-ND	-3.50	121.24	124.45
25	Y	101	BCR	C16-C17-C18	-3.50	122.32	127.31
32	d	413[B]	LHG	O7-C7-C8	3.49	119.03	111.50
23	B	610	CLA	C1D-CHD-C4C	-3.49	118.52	126.06
23	C	506	CLA	C4-C3-C5	3.49	121.15	115.27
31	B	629	LMT	O1'-C1'-C2'	3.49	113.75	108.30
23	b	611	CLA	C1C-C2C-C3C	-3.49	103.29	106.96
23	b	611	CLA	C3B-C4B-NB	3.49	113.72	109.21
25	D	404	BCR	C10-C11-C12	-3.49	112.34	123.22
23	B	609	CLA	C1D-CHD-C4C	-3.48	118.54	126.06
23	B	606	CLA	CHD-C4C-NC	3.48	129.69	124.20
23	b	605	CLA	C4-C3-C5	3.48	121.13	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	505	CLA	CMC-C2C-C1C	3.48	130.34	125.04
23	d	402[A]	CLA	O2A-CGA-CBA	3.48	122.83	111.91
23	c	511	CLA	O2D-CGD-O1D	-3.48	117.04	123.84
23	b	604	CLA	C3B-C4B-NB	3.48	113.70	109.21
23	c	509	CLA	O2A-C1-C2	3.47	117.77	108.64
23	c	502	CLA	C3B-C4B-NB	3.47	113.70	109.21
23	c	502	CLA	CBC-CAC-C3C	-3.47	102.87	112.43
26	b	620	SQD	O8-S-C6	3.47	111.27	105.74
23	c	502	CLA	CMD-C2D-C1D	3.46	130.82	124.71
24	A	416[A]	PHO	C1A-C2A-C3A	-3.46	99.54	102.84
23	C	508	CLA	C1C-C2C-C3C	-3.46	103.32	106.96
29	d	405[A]	PL9	C37-C38-C39	-3.46	119.33	127.66
23	B	612	CLA	O2A-CGA-O1A	-3.46	114.86	123.59
23	B	611	CLA	C4A-NA-C1A	-3.46	105.15	106.71
23	C	504	CLA	C4-C3-C5	3.46	121.09	115.27
23	c	504	CLA	C1C-C2C-C3C	-3.45	103.33	106.96
23	A	404[A]	CLA	O2A-CGA-O1A	-3.45	114.89	123.59
23	C	504	CLA	C1-C2-C3	-3.45	120.08	126.04
23	b	616	CLA	CHD-C4C-NC	3.45	129.64	124.20
25	T	101	BCR	C16-C17-C18	-3.45	122.39	127.31
23	c	505	CLA	C1D-CHD-C4C	-3.45	118.62	126.06
23	b	606	CLA	C3B-C4B-NB	3.44	113.66	109.21
23	C	512	CLA	C1C-C2C-C3C	-3.44	103.34	106.96
23	C	512	CLA	C3D-C4D-ND	3.44	115.81	110.24
23	b	615	CLA	O2D-CGD-CBD	3.44	117.38	111.27
26	a	410[B]	SQD	C44-O6-C1	-3.44	107.02	113.74
23	B	607	CLA	C4-C3-C5	3.44	121.05	115.27
23	C	502	CLA	CBC-CAC-C3C	-3.44	102.96	112.43
23	C	513	CLA	CHD-C4C-NC	3.44	129.62	124.20
23	C	507	CLA	C1D-CHD-C4C	-3.43	118.65	126.06
23	a	405[A]	CLA	C3B-C4B-NB	3.43	113.65	109.21
23	d	402[B]	CLA	C3B-C4B-NB	3.43	113.65	109.21
23	B	616	CLA	CMB-C2B-C3B	3.43	131.10	124.68
23	C	514	CLA	CMC-C2C-C1C	3.43	130.26	125.04
24	a	407[A]	PHO	C1A-C2A-C3A	-3.43	99.58	102.84
23	C	512	CLA	CAC-C3C-C4C	3.42	129.24	124.81
32	d	407[A]	LHG	O7-C7-C8	3.42	118.86	111.50
23	a	405[B]	CLA	CHD-C4C-NC	3.42	129.59	124.20
23	c	511	CLA	C1C-C2C-C3C	-3.42	103.36	106.96
40	V	201	HEC	CMB-C2B-C1B	-3.42	123.21	128.46
23	c	513	CLA	C1C-C2C-C3C	-3.42	103.37	106.96
23	a	405[A]	CLA	CHD-C4C-NC	3.41	129.58	124.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	d	402[B]	CLA	CAC-C3C-C4C	3.41	129.24	124.81
31	M	101	LMT	C1'-O5'-C5'	-3.41	107.00	113.69
23	b	613	CLA	C1D-CHD-C4C	-3.41	118.70	126.06
23	A	408	CLA	C1D-CHD-C4C	-3.41	118.71	126.06
23	C	511	CLA	C3C-C4C-NC	3.41	114.39	110.57
24	a	407[A]	PHO	O1D-CGD-CBD	-3.41	119.07	124.74
34	o	301	HTG	C1'-S1-C1	3.40	106.45	100.09
26	F	103	SQD	O9-S-C6	-3.40	102.90	106.94
23	d	402[B]	CLA	C1-C2-C3	-3.40	120.17	126.04
29	a	413[B]	PL9	C30-C29-C31	3.39	120.98	115.27
23	B	601	CLA	C4C-C3C-C2C	-3.39	101.95	106.90
23	c	510	CLA	C3B-C4B-NB	3.39	113.59	109.21
23	c	510	CLA	CMB-C2B-C3B	3.39	131.02	124.68
23	D	402[B]	CLA	C3B-C4B-NB	3.39	113.59	109.21
23	B	603	CLA	CAA-C2A-C3A	-3.39	103.50	112.78
23	b	608	CLA	CBC-CAC-C3C	-3.39	103.09	112.43
23	A	405[B]	CLA	C3B-C4B-NB	3.39	113.59	109.21
23	d	402[B]	CLA	O2A-CGA-CBA	3.38	122.53	111.91
23	b	605	CLA	C1-C2-C3	-3.38	120.19	126.04
23	B	605	CLA	C1-C2-C3	-3.38	120.19	126.04
23	c	508	CLA	C3B-C4B-NB	3.38	113.58	109.21
23	D	403	CLA	C1C-C2C-C3C	-3.38	103.40	106.96
25	c	515	BCR	C32-C1-C6	-3.38	104.82	110.30
23	a	404[A]	CLA	C3B-C4B-NB	3.38	113.58	109.21
29	a	413[A]	PL9	C27-C28-C29	-3.38	119.53	127.66
23	c	511	CLA	CHD-C4C-NC	3.38	129.52	124.20
29	A	414[A]	PL9	C37-C38-C39	-3.37	119.54	127.66
23	b	613	CLA	O2A-CGA-CBA	3.37	122.50	111.91
38	f	101	HEM	CBD-CAD-C3D	-3.37	103.26	112.63
23	A	404[B]	CLA	C1C-C2C-C3C	-3.37	103.41	106.96
23	C	506	CLA	C4C-C3C-C2C	-3.37	101.99	106.90
23	d	402[B]	CLA	C4C-C3C-C2C	-3.37	101.99	106.90
23	A	406[A]	CLA	C3B-C4B-NB	3.37	113.56	109.21
23	B	607	CLA	C1D-CHD-C4C	-3.37	118.80	126.06
23	B	612	CLA	C1D-CHD-C4C	-3.36	118.80	126.06
23	A	404[B]	CLA	O2A-CGA-CBA	3.36	122.46	111.91
40	V	201	HEC	C1D-C2D-C3D	-3.36	104.66	107.00
29	A	414[A]	PL9	C27-C28-C29	-3.36	119.56	127.66
23	C	510	CLA	CMB-C2B-C3B	3.36	130.97	124.68
23	C	509	CLA	C4C-C3C-C2C	-3.36	102.00	106.90
23	a	406[B]	CLA	C1D-CHD-C4C	-3.36	118.81	126.06
23	a	404[A]	CLA	O2A-CGA-CBA	3.36	122.45	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	611	CLA	C1D-CHD-C4C	-3.36	118.82	126.06
23	c	501	CLA	C1C-C2C-C3C	-3.36	103.43	106.96
23	D	402[A]	CLA	C4C-C3C-C2C	-3.35	102.01	106.90
29	d	405[B]	PL9	C42-C43-C44	-3.35	119.59	127.66
23	A	404[A]	CLA	CAC-C3C-C4C	3.35	129.15	124.81
32	b	629[A]	LHG	O7-C7-C8	3.35	118.72	111.50
23	b	614	CLA	C3B-C4B-NB	3.35	113.54	109.21
24	a	415[A]	PHO	C4-C3-C5	3.35	120.90	115.27
24	a	415[B]	PHO	C4-C3-C5	3.35	120.90	115.27
25	b	619	BCR	C38-C26-C25	-3.35	120.77	124.53
23	B	614	CLA	CHD-C4C-NC	3.35	129.47	124.20
23	b	609	CLA	C3B-C4B-NB	3.34	113.53	109.21
23	b	616	CLA	C1C-C2C-C3C	-3.34	103.44	106.96
23	b	613	CLA	C3D-C4D-ND	3.34	115.64	110.24
25	d	404	BCR	C38-C26-C25	-3.34	120.78	124.53
23	d	402[A]	CLA	C4-C3-C5	3.34	120.89	115.27
32	d	406[B]	LHG	O7-C7-C8	3.34	118.70	111.50
23	C	512	CLA	CMC-C2C-C1C	3.34	130.12	125.04
23	c	513	CLA	CAC-C3C-C4C	3.34	129.14	124.81
23	B	613	CLA	C1C-C2C-C3C	-3.34	103.45	106.96
23	c	502	CLA	C1-C2-C3	-3.33	120.28	126.04
23	a	404[A]	CLA	C1-C2-C3	-3.33	120.28	126.04
23	A	404[A]	CLA	CAA-C2A-C1A	-3.33	101.05	111.97
25	B	617	BCR	C31-C1-C6	-3.33	104.90	110.30
23	C	502	CLA	CAC-C3C-C4C	3.33	129.13	124.81
23	C	507	CLA	CAC-C3C-C4C	3.33	129.13	124.81
23	B	613	CLA	O2A-CGA-O1A	-3.33	115.20	123.59
23	B	613	CLA	C1D-CHD-C4C	-3.32	118.89	126.06
23	b	614	CLA	CAC-C3C-C4C	3.32	129.12	124.81
23	a	404[A]	CLA	CAA-C2A-C1A	-3.32	101.10	111.97
23	C	505	CLA	O2D-CGD-O1D	-3.32	117.36	123.84
23	B	610	CLA	CAA-CBA-CGA	-3.31	103.57	113.25
23	C	510	CLA	O2A-CGA-O1A	-3.31	115.24	123.59
23	d	403	CLA	C1D-CHD-C4C	-3.31	118.92	126.06
33	c	519	LMG	O1-C7-C8	-3.31	102.92	110.90
23	B	607	CLA	O2A-CGA-O1A	-3.31	115.25	123.59
32	A	419[A]	LHG	O8-C23-C24	3.30	122.28	111.91
23	A	408	CLA	C4C-C3C-C2C	-3.30	102.08	106.90
23	b	615	CLA	C11-C10-C8	-3.30	105.24	115.92
23	B	603	CLA	C4C-C3C-C2C	-3.30	102.08	106.90
29	a	413[A]	PL9	C37-C38-C39	-3.30	119.71	127.66
23	a	404[B]	CLA	CAA-C2A-C3A	-3.30	103.73	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	510	CLA	C1D-CHD-C4C	-3.30	118.94	126.06
23	B	605	CLA	CED-O2D-CGD	3.30	123.40	115.94
23	D	403	CLA	CMC-C2C-C1C	3.30	130.06	125.04
23	d	402[A]	CLA	C1D-CHD-C4C	-3.29	118.95	126.06
23	a	405[B]	CLA	C3B-C4B-NB	3.29	113.47	109.21
29	D	405[A]	PL9	C25-C24-C26	3.29	120.81	115.27
23	A	404[A]	CLA	CMB-C2B-C3B	3.29	130.84	124.68
25	h	101	BCR	C33-C5-C6	-3.29	120.83	124.53
26	B	620	SQD	O9-S-C6	3.29	110.85	106.94
23	c	506	CLA	CHC-C1C-C2C	-3.29	117.62	126.72
23	C	513	CLA	C4C-C3C-C2C	-3.29	102.11	106.90
23	B	612	CLA	O2A-CGA-CBA	3.28	122.22	111.91
23	A	406[B]	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
23	A	406[A]	CLA	CAA-C2A-C3A	-3.28	103.78	112.78
25	D	404	BCR	C38-C26-C25	-3.28	120.84	124.53
23	B	601	CLA	O2D-CGD-O1D	-3.28	117.43	123.84
23	a	404[A]	CLA	O2D-CGD-O1D	-3.28	117.43	123.84
40	v	201	HEC	CMB-C2B-C3B	3.28	129.67	125.82
23	B	615	CLA	C4-C3-C5	3.27	120.78	115.27
23	B	610	CLA	C4C-C3C-C2C	-3.27	102.13	106.90
23	b	612	CLA	C4C-C3C-C2C	-3.27	102.13	106.90
23	c	512	CLA	C4-C3-C5	3.27	120.77	115.27
23	c	503	CLA	C4C-C3C-C2C	-3.27	102.13	106.90
23	B	613	CLA	CMC-C2C-C1C	3.27	130.02	125.04
34	b	622	HTG	O5-C5-C4	3.27	115.63	109.69
23	B	615	CLA	CED-O2D-CGD	3.27	123.33	115.94
23	B	608	CLA	C1D-CHD-C4C	-3.26	119.02	126.06
23	c	510	CLA	C4-C3-C5	3.26	120.76	115.27
33	C	520	LMG	O8-C28-C29	3.26	122.15	111.91
23	b	611	CLA	C1-C2-C3	-3.26	120.40	126.04
23	C	508	CLA	CBC-CAC-C3C	-3.26	103.44	112.43
29	D	405[B]	PL9	C25-C24-C26	3.26	120.76	115.27
23	b	615	CLA	C4-C3-C5	3.26	120.75	115.27
23	B	603	CLA	CMB-C2B-C3B	3.25	130.77	124.68
23	B	604	CLA	C3B-C4B-NB	3.25	113.41	109.21
23	C	504	CLA	C1C-C2C-C3C	-3.25	103.54	106.96
23	b	608	CLA	C3C-C4C-NC	3.25	114.22	110.57
23	A	404[B]	CLA	CHC-C1C-C2C	-3.25	117.73	126.72
23	d	402[A]	CLA	C1-C2-C3	-3.24	120.43	126.04
35	C	517[B]	DGD	O2G-C1B-C2B	3.24	118.49	111.50
23	b	605	CLA	CMC-C2C-C1C	3.24	129.97	125.04
23	B	614	CLA	CMB-C2B-C3B	3.24	130.74	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	D	402[B]	CLA	C1D-CHD-C4C	-3.24	119.07	126.06
23	B	612	CLA	CMB-C2B-C3B	3.24	130.74	124.68
23	B	610	CLA	O2D-CGD-O1D	-3.24	117.51	123.84
23	B	607	CLA	C3B-C4B-NB	3.23	113.39	109.21
23	A	404[B]	CLA	C4C-C3C-C2C	-3.23	102.18	106.90
23	B	613	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
29	D	405[B]	PL9	C27-C28-C29	-3.23	119.88	127.66
23	c	501	CLA	C1-C2-C3	-3.23	120.45	126.04
23	C	510	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
23	C	502	CLA	C3B-C4B-NB	3.23	113.38	109.21
23	A	406[A]	CLA	O2A-CGA-O1A	-3.23	115.45	123.59
23	b	611	CLA	C4C-C3C-C2C	-3.23	102.19	106.90
23	a	408	CLA	C4-C3-C5	3.22	120.70	115.27
23	b	606	CLA	CHD-C4C-NC	3.22	129.28	124.20
23	C	511	CLA	CHC-C1C-C2C	-3.22	117.81	126.72
23	C	506	CLA	C1C-C2C-C3C	-3.22	103.57	106.96
23	A	406[B]	CLA	O2A-CGA-O1A	-3.22	115.46	123.59
26	B	620	SQD	O48-C23-C24	3.22	122.01	111.91
23	c	509	CLA	CAC-C3C-C4C	3.22	128.99	124.81
23	c	512	CLA	O2D-CGD-O1D	-3.22	117.55	123.84
23	A	404[B]	CLA	CAC-C3C-C4C	3.22	128.98	124.81
33	Z	101	LMG	C4-C3-C2	3.22	116.44	110.82
23	a	406[A]	CLA	C3B-C4B-NB	3.22	113.37	109.21
26	a	410[A]	SQD	C45-O47-C7	-3.21	109.88	117.79
23	b	601	CLA	CHD-C4C-NC	3.21	129.27	124.20
25	b	618	BCR	C37-C22-C21	-3.21	118.42	122.92
23	C	510	CLA	C3B-C4B-NB	3.21	113.36	109.21
23	c	501	CLA	C4C-C3C-C2C	-3.21	102.22	106.90
23	c	509	CLA	CHC-C1C-C2C	-3.21	117.85	126.72
23	b	603	CLA	CMA-C3A-C2A	-3.21	100.89	113.83
29	a	413[A]	PL9	C17-C18-C19	-3.21	119.94	127.66
23	b	616	CLA	O2A-CGA-O1A	-3.20	115.51	123.59
23	c	512	CLA	C1C-C2C-C3C	-3.20	103.59	106.96
24	a	407[A]	PHO	O2A-CGA-O1A	-3.20	115.51	123.59
23	D	403	CLA	C4-C3-C5	3.20	120.66	115.27
23	B	606	CLA	O2A-CGA-O1A	-3.20	115.51	123.59
23	b	607	CLA	CHC-C1C-C2C	-3.20	117.86	126.72
23	A	405[B]	CLA	CHC-C1C-C2C	-3.20	117.87	126.72
29	a	413[A]	PL9	C25-C24-C26	3.20	120.65	115.27
23	C	510	CLA	CMC-C2C-C1C	3.20	129.91	125.04
31	b	627	LMT	C3'-C4'-C5'	-3.20	103.60	110.93
29	D	405[A]	PL9	C17-C18-C19	-3.20	119.96	127.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	614	CLA	C1-C2-C3	-3.20	120.52	126.04
29	a	413[B]	PL9	C25-C24-C26	3.19	120.64	115.27
23	C	502	CLA	CMC-C2C-C1C	3.19	129.90	125.04
24	A	416[A]	PHO	C4-C3-C5	3.19	120.64	115.27
23	C	512	CLA	C4-C3-C5	3.19	120.63	115.27
23	b	604	CLA	CMC-C2C-C1C	3.19	129.89	125.04
33	a	416	LMG	C7-O1-C1	-3.19	107.52	113.74
23	B	614	CLA	CAC-C3C-C4C	3.19	128.94	124.81
23	b	614	CLA	CHC-C1C-C2C	-3.19	117.91	126.72
33	z	101	LMG	O7-C10-C11	3.18	118.36	111.50
25	D	404	BCR	C29-C30-C25	3.18	115.38	110.48
29	a	413[B]	PL9	C37-C38-C39	-3.18	120.00	127.66
23	a	404[B]	CLA	CHC-C1C-C2C	-3.18	117.93	126.72
23	B	604	CLA	C4C-C3C-C2C	-3.18	102.27	106.90
23	A	405[A]	CLA	C3B-C4B-NB	3.18	113.32	109.21
23	d	402[A]	CLA	O2A-CGA-O1A	-3.18	115.57	123.59
32	A	419[B]	LHG	C5-O7-C7	-3.18	109.97	117.79
23	B	615	CLA	O2D-CGD-CBD	3.17	116.91	111.27
26	b	620	SQD	C3-C4-C5	3.17	115.90	110.24
38	f	101	HEM	CHD-C1D-ND	3.17	127.88	124.43
23	B	611	CLA	C1-C2-C3	-3.17	120.56	126.04
25	K	102	BCR	C24-C23-C22	-3.17	121.44	126.23
23	C	507	CLA	CHC-C1C-C2C	-3.17	117.95	126.72
35	h	102	DGD	O1G-C1A-O1A	-3.17	115.59	123.59
32	D	406[B]	LHG	O7-C7-C8	3.17	118.33	111.50
23	b	607	CLA	CAA-C2A-C3A	-3.17	104.11	112.78
23	C	506	CLA	C3B-C4B-NB	3.16	113.30	109.21
23	C	512	CLA	C3B-C4B-NB	3.16	113.30	109.21
23	c	511	CLA	C1-C2-C3	-3.16	120.58	126.04
23	B	615	CLA	CAC-C3C-C4C	3.16	128.90	124.81
23	B	601	CLA	CHD-C4C-NC	3.16	129.18	124.20
23	b	601	CLA	C4-C3-C5	3.15	120.58	115.27
23	C	503	CLA	O2D-CGD-O1D	-3.15	117.67	123.84
23	b	610	CLA	CMC-C2C-C1C	3.15	129.84	125.04
23	a	404[A]	CLA	C4-C3-C5	3.15	120.57	115.27
25	b	618	BCR	C15-C14-C13	-3.15	122.82	127.31
23	b	612	CLA	C2A-C1A-CHA	-3.15	118.35	123.86
23	c	508	CLA	C4C-C3C-C2C	-3.14	102.31	106.90
23	B	616	CLA	C1C-C2C-C3C	-3.14	103.65	106.96
23	b	603	CLA	C2A-C1A-CHA	-3.14	118.36	123.86
26	a	411	SQD	O48-C23-C24	3.14	121.77	111.91
29	d	405[B]	PL9	C37-C38-C39	-3.14	120.10	127.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	c	514	BCR	C16-C17-C18	-3.14	122.83	127.31
23	B	615	CLA	C3B-C4B-NB	3.14	113.27	109.21
25	D	404	BCR	C16-C17-C18	-3.14	122.83	127.31
23	C	507	CLA	CMC-C2C-C1C	3.13	129.81	125.04
23	D	402[B]	CLA	C4C-C3C-C2C	-3.13	102.33	106.90
23	b	614	CLA	C4C-C3C-C2C	-3.13	102.33	106.90
23	B	612	CLA	C11-C12-C13	-3.13	105.80	115.92
23	c	513	CLA	C4C-C3C-C2C	-3.13	102.33	106.90
23	b	615	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
23	c	511	CLA	C4C-C3C-C2C	-3.13	102.34	106.90
23	A	404[A]	CLA	C1-C2-C3	-3.13	120.63	126.04
23	c	505	CLA	C1C-C2C-C3C	-3.13	103.67	106.96
38	F	102	HEM	CHB-C1B-NB	3.13	128.24	124.38
23	c	512	CLA	O2A-CGA-CBA	3.13	121.72	111.91
29	d	405[B]	PL9	C10-C9-C11	3.13	120.53	115.27
23	c	503	CLA	C1C-C2C-C3C	-3.12	103.67	106.96
25	T	101	BCR	C12-C13-C14	-3.12	114.15	118.94
23	A	405[A]	CLA	CAC-C3C-C4C	3.12	128.86	124.81
23	b	602	CLA	CAC-C3C-C4C	3.12	128.86	124.81
23	B	609	CLA	O2D-CGD-O1D	-3.12	117.74	123.84
23	a	408	CLA	CAA-C2A-C3A	-3.12	104.23	112.78
25	b	617	BCR	C29-C30-C25	3.12	115.28	110.48
23	C	506	CLA	O2D-CGD-O1D	-3.12	117.74	123.84
23	a	406[A]	CLA	CHD-C4C-NC	3.12	129.12	124.20
23	b	608	CLA	CHD-C4C-NC	3.12	129.12	124.20
23	a	408	CLA	CAC-C3C-C4C	3.12	128.85	124.81
25	C	515	BCR	C16-C17-C18	-3.11	122.86	127.31
35	h	102	DGD	O2G-C1B-C2B	3.11	118.21	111.50
23	a	404[B]	CLA	C1-C2-C3	-3.11	120.66	126.04
23	b	601	CLA	C1-O2A-CGA	3.11	124.60	116.44
29	d	405[B]	PL9	C40-C39-C41	3.11	120.50	115.27
23	D	402[A]	CLA	C1D-CHD-C4C	-3.11	119.36	126.06
29	a	413[A]	PL9	C35-C34-C36	3.10	120.49	115.27
23	b	603	CLA	C4C-C3C-C2C	-3.10	102.37	106.90
32	D	407[A]	LHG	O7-C7-C8	3.10	118.19	111.50
29	A	414[B]	PL9	C27-C28-C29	-3.10	120.19	127.66
25	a	409	BCR	C40-C30-C25	-3.10	105.27	110.30
29	a	413[B]	PL9	C17-C18-C19	-3.10	120.20	127.66
24	a	407[A]	PHO	O2A-CGA-CBA	3.10	121.63	111.91
25	D	404	BCR	C37-C22-C23	3.10	122.96	118.08
23	B	603	CLA	C4-C3-C5	3.10	120.48	115.27
23	B	610	CLA	C3B-C4B-NB	3.09	113.21	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	510	CLA	O2A-CGA-CBA	3.09	121.62	111.91
23	C	511	CLA	CHD-C4C-NC	3.09	129.08	124.20
23	a	406[A]	CLA	CAA-C2A-C3A	-3.09	104.31	112.78
23	B	614	CLA	CHC-C1C-C2C	-3.09	118.17	126.72
23	b	610	CLA	CHD-C4C-NC	3.09	129.07	124.20
23	b	612	CLA	O2A-CGA-O1A	-3.09	115.80	123.59
32	d	413[B]	LHG	O8-C23-C24	3.09	121.60	111.91
23	C	503	CLA	C3B-C4B-NB	3.09	113.20	109.21
23	c	510	CLA	CHD-C4C-NC	3.09	129.07	124.20
23	B	603	CLA	C3B-C4B-NB	3.09	113.20	109.21
29	a	413[B]	PL9	C42-C43-C44	-3.08	120.23	127.66
23	c	503	CLA	C3B-C4B-NB	3.08	113.20	109.21
23	C	513	CLA	C1C-C2C-C3C	-3.08	103.72	106.96
23	b	614	CLA	O2A-CGA-O1A	-3.08	115.82	123.59
32	D	406[A]	LHG	O8-C23-O10	-3.08	115.82	123.59
23	b	608	CLA	CAC-C3C-C4C	3.08	128.81	124.81
23	B	605	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
23	B	614	CLA	O2A-CGA-O1A	-3.08	115.83	123.59
23	b	608	CLA	C1-C2-C3	-3.07	120.73	126.04
23	C	512	CLA	C4C-C3C-C2C	-3.07	102.42	106.90
23	b	604	CLA	C1D-CHD-C4C	-3.07	119.43	126.06
23	c	508	CLA	O2D-CGD-O1D	-3.07	117.83	123.84
23	D	403	CLA	CAC-C3C-C4C	3.07	128.79	124.81
23	a	408	CLA	O2A-CGA-CBA	3.07	121.55	111.91
23	C	514	CLA	CBC-CAC-C3C	-3.07	103.96	112.43
23	A	405[B]	CLA	CAA-C2A-C3A	-3.07	104.37	112.78
23	b	613	CLA	C4C-C3C-C2C	-3.06	102.43	106.90
23	b	601	CLA	C1C-C2C-C3C	-3.06	103.74	106.96
33	Z	101	LMG	O6-C1-C2	3.06	116.83	110.35
23	c	503	CLA	CAC-C3C-C4C	3.06	128.78	124.81
23	B	603	CLA	O2A-CGA-O1A	-3.06	115.87	123.59
38	f	101	HEM	C4D-ND-C1D	3.06	108.23	105.07
26	A	412	SQD	O48-C23-C24	3.06	121.50	111.91
23	b	602	CLA	C4C-C3C-C2C	-3.06	102.44	106.90
32	a	420[A]	LHG	O7-C7-C8	3.05	118.08	111.50
35	C	519	DGD	O1G-C1A-C2A	3.05	121.49	111.91
23	c	508	CLA	C4-C3-C5	3.05	120.41	115.27
23	b	602	CLA	C2A-C1A-CHA	-3.05	118.52	123.86
23	b	601	CLA	C4C-C3C-C2C	-3.05	102.45	106.90
23	d	403	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
23	D	403	CLA	C3B-C4B-NB	3.05	113.15	109.21
32	a	420[B]	LHG	O7-C7-C8	3.05	118.07	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	h	102	DGD	O1G-C1A-C2A	3.05	121.47	111.91
23	A	404[A]	CLA	CMC-C2C-C1C	3.05	129.68	125.04
32	D	407[A]	LHG	O8-C23-C24	3.05	121.46	111.91
29	A	414[A]	PL9	O1-C4-C3	-3.05	117.37	120.72
23	b	612	CLA	O2A-CGA-CBA	3.04	121.46	111.91
23	b	616	CLA	C4C-C3C-C2C	-3.04	102.46	106.90
29	a	413[A]	PL9	C10-C9-C11	3.04	120.39	115.27
23	B	604	CLA	CAC-C3C-C4C	3.04	128.76	124.81
23	C	511	CLA	CBC-CAC-C3C	-3.04	104.05	112.43
23	C	509	CLA	CAC-C3C-C4C	3.04	128.75	124.81
29	A	414[A]	PL9	C20-C19-C21	3.04	120.38	115.27
29	A	414[B]	PL9	C20-C19-C21	3.04	120.38	115.27
23	b	605	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
23	c	509	CLA	C4C-C3C-C2C	-3.04	102.47	106.90
24	A	416[A]	PHO	CMC-C2C-C3C	3.03	130.66	124.94
32	d	413[A]	LHG	O7-C7-C8	3.03	118.04	111.50
23	A	408	CLA	CHC-C1C-C2C	-3.03	118.33	126.72
23	A	406[B]	CLA	CAA-C2A-C3A	-3.03	104.48	112.78
23	A	405[B]	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
23	c	507	CLA	C1D-CHD-C4C	-3.02	119.53	126.06
25	H	101	BCR	C37-C22-C21	-3.02	118.69	122.92
26	a	410[B]	SQD	C1-C2-C3	-3.02	103.70	110.00
23	A	405[B]	CLA	CHD-C4C-NC	3.02	128.97	124.20
29	A	414[B]	PL9	C17-C18-C19	-3.02	120.38	127.66
23	C	509	CLA	CHC-C1C-C2C	-3.02	118.36	126.72
23	a	406[B]	CLA	CHD-C4C-NC	3.02	128.96	124.20
23	c	512	CLA	CHD-C4C-NC	3.02	128.96	124.20
23	b	601	CLA	C3B-C4B-NB	3.02	113.11	109.21
23	d	402[B]	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
23	b	602	CLA	C1-C2-C3	-3.02	120.82	126.04
23	C	506	CLA	CHC-C1C-C2C	-3.02	118.38	126.72
29	A	414[B]	PL9	C30-C29-C31	3.02	120.35	115.27
24	a	415[A]	PHO	CBA-CAA-C2A	-3.02	105.00	113.81
23	b	602	CLA	CMA-C3A-C4A	-3.01	103.67	111.77
23	d	403	CLA	CAA-C2A-C3A	-3.01	104.53	112.78
23	A	406[A]	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
32	D	407[A]	LHG	O8-C23-O10	-3.01	115.99	123.59
23	B	612	CLA	C1C-C2C-C3C	-3.01	103.79	106.96
23	C	508	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
23	D	403	CLA	C4C-C3C-C2C	-3.01	102.51	106.90
23	a	404[B]	CLA	CHD-C4C-NC	3.01	128.94	124.20
23	B	609	CLA	O2A-CGA-CBA	3.01	121.34	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	a	415[A]	PHO	CMB-C2B-C3B	3.01	130.30	124.68
33	C	521	LMG	O8-C28-C29	3.01	121.34	111.91
23	c	501	CLA	C3B-C4B-NB	3.01	113.10	109.21
23	B	608	CLA	C11-C12-C13	-3.01	106.20	115.92
29	D	405[A]	PL9	C53-C6-C1	3.00	121.13	114.99
23	c	509	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
23	b	610	CLA	C1C-C2C-C3C	-3.00	103.80	106.96
23	A	406[B]	CLA	CHD-C4C-NC	3.00	128.93	124.20
23	a	404[A]	CLA	CHC-C1C-C2C	-3.00	118.43	126.72
29	d	405[A]	PL9	C22-C23-C24	-3.00	120.44	127.66
29	d	405[A]	PL9	C36-C34-C33	-3.00	115.05	121.12
23	a	406[A]	CLA	C4C-C3C-C2C	-3.00	102.53	106.90
23	b	602	CLA	C11-C12-C13	-3.00	106.23	115.92
23	b	602	CLA	C1C-C2C-C3C	-3.00	103.81	106.96
29	A	414[A]	PL9	C17-C18-C19	-2.99	120.45	127.66
26	F	103	SQD	C1-C2-C3	-2.99	103.77	110.00
29	a	413[B]	PL9	C22-C23-C24	-2.99	120.46	127.66
23	B	613	CLA	CMB-C2B-C3B	2.99	130.27	124.68
23	C	504	CLA	C4C-C3C-C2C	-2.99	102.54	106.90
23	B	607	CLA	CAA-C2A-C3A	-2.99	104.60	112.78
35	H	102	DGD	O6E-C5E-C6E	2.99	113.86	106.44
23	d	402[A]	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
23	c	506	CLA	O2D-CGD-O1D	-2.98	118.01	123.84
23	B	602	CLA	C2A-C1A-CHA	-2.98	118.64	123.86
25	k	101	BCR	C7-C8-C9	-2.98	121.73	126.23
33	m	101	LMG	C7-O1-C1	-2.98	107.92	113.74
23	B	608	CLA	CHC-C1C-C2C	-2.98	118.48	126.72
23	a	404[A]	CLA	CMA-C3A-C4A	-2.98	103.77	111.77
23	B	609	CLA	CMC-C2C-C1C	2.98	129.57	125.04
24	A	407[B]	PHO	CMC-C2C-C3C	2.98	130.56	124.94
23	A	408	CLA	O2A-CGA-CBA	2.98	121.25	111.91
23	A	406[A]	CLA	CMC-C2C-C1C	2.98	129.57	125.04
23	B	601	CLA	C1C-C2C-C3C	-2.97	103.83	106.96
23	A	405[B]	CLA	CBC-CAC-C3C	-2.97	104.23	112.43
23	B	610	CLA	CHC-C1C-C2C	-2.97	118.50	126.72
35	C	517[A]	DGD	C2G-O2G-C1B	-2.97	110.47	117.79
23	b	606	CLA	C4C-C3C-C2C	-2.97	102.56	106.90
23	d	402[A]	CLA	C4C-C3C-C2C	-2.97	102.56	106.90
23	c	501	CLA	C1D-CHD-C4C	-2.97	119.65	126.06
29	a	413[A]	PL9	C42-C43-C44	-2.97	120.50	127.66
23	a	404[A]	CLA	CMC-C2C-C1C	2.97	129.56	125.04
23	a	405[B]	CLA	CBC-CAC-C3C	-2.97	104.24	112.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	606	CLA	CBC-CAC-C3C	-2.97	104.25	112.43
29	d	405[A]	PL9	C10-C9-C11	2.97	120.27	115.27
23	b	607	CLA	C4C-C3C-C2C	-2.97	102.57	106.90
23	C	502	CLA	C1-O2A-CGA	2.97	124.23	116.44
23	B	604	CLA	CHC-C1C-C2C	-2.97	118.52	126.72
38	f	101	HEM	CHB-C1B-NB	2.96	128.04	124.38
26	A	410[A]	SQD	O8-S-C6	2.96	110.46	105.74
29	a	413[B]	PL9	C35-C34-C36	2.96	120.26	115.27
23	c	508	CLA	CHC-C1C-C2C	-2.96	118.53	126.72
24	a	415[A]	PHO	O2D-CGD-O1D	-2.96	118.05	123.84
23	a	404[B]	CLA	C4C-C3C-C2C	-2.96	102.58	106.90
33	C	501	LMG	O6-C1-O1	-2.96	102.97	109.97
29	D	405[B]	PL9	C53-C6-C1	2.96	121.04	114.99
24	A	416[B]	PHO	C4-C3-C5	2.96	120.25	115.27
23	c	501	CLA	CAC-C3C-C4C	2.96	128.65	124.81
25	c	514	BCR	C37-C22-C21	-2.95	118.78	122.92
23	c	509	CLA	C1-O2A-CGA	2.95	124.19	116.44
23	D	402[A]	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
23	a	405[B]	CLA	CHC-C1C-C2C	-2.95	118.57	126.72
23	B	606	CLA	C4-C3-C5	2.95	120.23	115.27
23	a	406[B]	CLA	C4C-C3C-C2C	-2.94	102.61	106.90
23	D	403	CLA	CHD-C4C-NC	2.94	128.84	124.20
23	A	406[B]	CLA	C4C-C3C-C2C	-2.94	102.61	106.90
23	B	612	CLA	C4A-NA-C1A	-2.94	105.38	106.71
23	c	507	CLA	C4-C3-C5	2.94	120.22	115.27
23	b	606	CLA	O2A-CGA-O1A	-2.94	116.18	123.59
23	B	616	CLA	O2A-CGA-CBA	2.94	121.12	111.91
25	h	101	BCR	C37-C22-C21	-2.94	118.81	122.92
23	a	404[B]	CLA	O2A-CGA-CBA	2.93	121.11	111.91
29	D	405[A]	PL9	C10-C9-C11	2.93	120.20	115.27
23	c	509	CLA	C4-C3-C5	2.93	120.20	115.27
23	d	403	CLA	CBC-CAC-C3C	-2.93	104.35	112.43
23	A	404[B]	CLA	O2A-CGA-O1A	-2.93	116.20	123.59
23	A	405[A]	CLA	CMA-C3A-C4A	-2.93	103.90	111.77
23	b	607	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
23	b	606	CLA	CHC-C1C-C2C	-2.93	118.62	126.72
23	b	613	CLA	CHD-C4C-NC	2.93	128.81	124.20
23	A	404[A]	CLA	C4C-C3C-C2C	-2.92	102.64	106.90
23	a	405[A]	CLA	CMA-C3A-C2A	-2.92	102.03	113.83
23	B	609	CLA	C4C-C3C-C2C	-2.92	102.64	106.90
23	C	514	CLA	CMB-C2B-C3B	2.92	130.15	124.68
23	A	406[B]	CLA	C3B-C4B-NB	2.92	112.99	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	615	CLA	CHD-C4C-NC	2.92	128.80	124.20
32	E	101[A]	LHG	O8-C23-C24	2.92	121.06	111.91
23	b	612	CLA	O2D-CGD-O1D	-2.92	118.14	123.84
23	b	611	CLA	CHC-C1C-C2C	-2.92	118.66	126.72
23	c	512	CLA	C4C-C3C-C2C	-2.91	102.65	106.90
25	d	404	BCR	C10-C11-C12	-2.91	114.12	123.22
23	D	402[A]	CLA	C4-C3-C5	2.91	120.17	115.27
23	A	404[A]	CLA	C2A-C1A-CHA	-2.91	118.77	123.86
25	a	409	BCR	C38-C26-C25	-2.91	121.27	124.53
23	C	504	CLA	CHD-C4C-NC	2.90	128.78	124.20
23	D	402[B]	CLA	CHC-C1C-C2C	-2.90	118.69	126.72
23	d	402[B]	CLA	CHC-C1C-C2C	-2.90	118.69	126.72
23	A	405[A]	CLA	CHD-C4C-NC	2.90	128.78	124.20
23	D	402[A]	CLA	O2A-CGA-CBA	2.90	121.00	111.91
35	c	518	DGD	O1G-C1A-C2A	2.90	121.00	111.91
25	T	101	BCR	C2-C1-C6	2.90	114.94	110.48
23	d	402[A]	CLA	CHC-C1C-C2C	-2.90	118.71	126.72
23	C	502	CLA	CHD-C4C-NC	2.90	128.77	124.20
25	t	102	BCR	C21-C20-C19	-2.90	114.18	123.22
23	C	505	CLA	CHC-C1C-C2C	-2.90	118.71	126.72
23	A	406[B]	CLA	O2A-CGA-CBA	2.90	121.00	111.91
23	b	602	CLA	CHD-C4C-NC	2.90	128.77	124.20
23	c	502	CLA	CHD-C4C-NC	2.89	128.76	124.20
29	A	414[B]	PL9	C53-C6-C1	2.89	120.91	114.99
23	B	612	CLA	C3B-C4B-NB	2.89	112.95	109.21
31	B	627	LMT	O1'-C1'-C2'	2.89	112.82	108.30
23	a	406[B]	CLA	C3B-C4B-NB	2.89	112.95	109.21
23	A	404[B]	CLA	C1-C2-C3	-2.89	121.05	126.04
29	A	414[B]	PL9	C35-C34-C36	2.89	120.13	115.27
23	C	505	CLA	CMC-C2C-C1C	2.88	129.43	125.04
23	B	604	CLA	C6-C7-C8	-2.88	106.60	115.92
23	c	503	CLA	C4-C3-C5	2.88	120.12	115.27
23	b	609	CLA	C1C-C2C-C3C	-2.88	103.92	106.96
23	c	503	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
32	d	406[A]	LHG	O7-C7-C8	2.88	117.71	111.50
23	C	510	CLA	CAC-C3C-C4C	2.88	128.55	124.81
23	D	402[A]	CLA	CAA-C2A-C3A	-2.88	104.89	112.78
23	a	406[B]	CLA	CAA-C2A-C3A	-2.88	104.89	112.78
23	a	408	CLA	O2A-CGA-O1A	-2.88	116.33	123.59
34	b	625	HTG	O5-C5-C4	2.88	114.92	109.69
23	b	604	CLA	CHC-C1C-C2C	-2.88	118.76	126.72
24	a	415[A]	PHO	C4A-C3A-C2A	-2.88	100.10	102.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	615	CLA	CHC-C1C-C2C	-2.88	118.77	126.72
23	b	615	CLA	C3B-C4B-NB	2.88	112.93	109.21
23	C	509	CLA	C4-C3-C5	2.88	120.11	115.27
23	A	406[A]	CLA	CHD-C4C-NC	2.88	128.73	124.20
32	E	101[B]	LHG	O8-C23-C24	2.87	120.93	111.91
23	d	403	CLA	C4C-C3C-C2C	-2.87	102.71	106.90
26	a	410[A]	SQD	O47-C7-O49	-2.87	116.75	123.70
23	B	611	CLA	C3B-C4B-NB	2.87	112.93	109.21
23	C	511	CLA	C4-C3-C5	2.87	120.11	115.27
33	c	519	LMG	O8-C28-C29	2.87	120.92	111.91
24	A	416[A]	PHO	O2D-CGD-O1D	-2.87	118.22	123.84
23	D	402[B]	CLA	O2A-CGA-CBA	2.87	120.92	111.91
26	a	410[B]	SQD	C45-O47-C7	-2.87	110.72	117.79
26	A	410[B]	SQD	O48-C23-C24	2.87	120.92	111.91
23	a	404[A]	CLA	CAC-C3C-C4C	2.87	128.53	124.81
23	B	614	CLA	CBC-CAC-C3C	-2.87	104.53	112.43
32	A	419[A]	LHG	C5-O7-C7	-2.87	110.73	117.79
33	m	101	LMG	C8-O7-C10	-2.87	110.73	117.79
23	d	403	CLA	C3B-C4B-NB	2.87	112.92	109.21
23	b	609	CLA	CBC-CAC-C3C	-2.87	104.53	112.43
23	b	615	CLA	CHD-C4C-NC	2.87	128.72	124.20
24	a	415[B]	PHO	CMB-C2B-C3B	2.86	130.04	124.68
25	A	409	BCR	C15-C14-C13	-2.86	123.22	127.31
23	B	608	CLA	C4C-C3C-C2C	-2.86	102.72	106.90
23	a	405[A]	CLA	CHC-C1C-C2C	-2.86	118.81	126.72
23	b	608	CLA	CHC-C1C-C2C	-2.86	118.81	126.72
26	F	103	SQD	O48-C23-C24	2.86	120.88	111.91
34	o	301	HTG	O2-C2-C3	-2.86	103.74	110.35
23	b	611	CLA	CHD-C4C-NC	2.86	128.71	124.20
23	b	615	CLA	O2A-CGA-CBA	2.86	120.88	111.91
29	D	405[A]	PL9	C51-C49-C50	2.86	120.92	114.60
34	C	522	HTG	C1-O5-C5	2.86	117.85	112.58
25	d	404	BCR	C37-C22-C23	2.86	122.58	118.08
23	B	603	CLA	O2A-CGA-CBA	2.86	120.87	111.91
29	d	405[B]	PL9	C7-C8-C9	-2.85	122.04	126.79
23	b	607	CLA	C1D-CHD-C4C	-2.85	119.90	126.06
29	a	413[A]	PL9	C53-C6-C1	2.85	120.82	114.99
23	B	611	CLA	C4C-C3C-C2C	-2.85	102.74	106.90
23	B	602	CLA	CAC-C3C-C4C	2.85	128.51	124.81
23	C	504	CLA	CBC-CAC-C3C	-2.85	104.57	112.43
23	b	609	CLA	C16-C15-C13	-2.85	106.71	115.92
23	a	408	CLA	CMA-C3A-C2A	-2.85	102.34	113.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	608	CLA	CMC-C2C-C1C	2.85	129.37	125.04
35	C	517[A]	DGD	O6D-C1D-O3G	-2.85	103.24	109.97
25	Y	101	BCR	C15-C14-C13	-2.84	123.25	127.31
23	d	403	CLA	CHD-C4C-NC	2.84	128.69	124.20
25	b	619	BCR	C7-C8-C9	-2.84	121.94	126.23
33	z	101	LMG	O8-C28-C29	2.84	120.83	111.91
23	a	405[B]	CLA	O2D-CGD-O1D	-2.84	118.28	123.84
26	A	410[A]	SQD	O48-C23-C24	2.84	120.82	111.91
33	m	101	LMG	O8-C28-C29	2.84	120.82	111.91
23	c	511	CLA	O2A-CGA-CBA	2.84	120.82	111.91
23	C	513	CLA	O2A-CGA-CBA	2.84	120.82	111.91
23	b	605	CLA	CHC-C1C-C2C	-2.84	118.87	126.72
23	B	604	CLA	C4A-NA-C1A	-2.84	105.43	106.71
23	a	406[A]	CLA	O2D-CGD-O1D	-2.84	118.30	123.84
25	B	617	BCR	C16-C17-C18	-2.83	123.26	127.31
23	A	406[A]	CLA	O2A-CGA-CBA	2.83	120.80	111.91
23	C	506	CLA	CMB-C2B-C1B	2.83	132.82	128.46
23	b	613	CLA	CHC-C1C-C2C	-2.83	118.89	126.72
23	b	609	CLA	CHC-C1C-C2C	-2.83	118.89	126.72
29	A	414[B]	PL9	C40-C39-C41	2.83	120.03	115.27
23	c	503	CLA	C1-C2-C3	-2.83	121.15	126.04
24	A	407[A]	PHO	CMC-C2C-C3C	2.83	130.28	124.94
25	b	619	BCR	C15-C14-C13	-2.83	123.27	127.31
23	B	608	CLA	CMA-C3A-C4A	-2.83	104.18	111.77
29	D	405[A]	PL9	C37-C38-C39	-2.83	120.85	127.66
24	A	416[B]	PHO	O2D-CGD-O1D	-2.82	118.31	123.84
33	D	411	LMG	O7-C10-C11	2.82	117.59	111.50
26	A	412	SQD	C4-C3-C2	-2.82	105.90	110.82
32	d	406[B]	LHG	O8-C23-O10	-2.82	116.47	123.59
23	A	404[A]	CLA	CHC-C1C-C2C	-2.82	118.92	126.72
23	B	610	CLA	CMA-C3A-C4A	-2.82	104.19	111.77
25	B	618	BCR	C15-C14-C13	-2.82	123.29	127.31
29	A	414[A]	PL9	C35-C34-C36	2.82	120.01	115.27
23	c	513	CLA	O2A-CGA-CBA	2.82	120.75	111.91
23	B	609	CLA	CHC-C1C-C2C	-2.82	118.93	126.72
32	L	101[A]	LHG	O8-C23-C24	2.82	120.75	111.91
23	d	402[B]	CLA	C4-C3-C5	2.82	120.01	115.27
25	B	619	BCR	C29-C30-C25	2.82	114.81	110.48
25	d	404	BCR	C39-C30-C25	-2.81	105.73	110.30
25	D	404	BCR	C15-C16-C17	-2.81	117.71	123.47
23	A	406[A]	CLA	C4C-C3C-C2C	-2.81	102.80	106.90
23	b	601	CLA	CMB-C2B-C3B	2.81	129.94	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	A	414[B]	PL9	C7-C3-C2	-2.81	119.61	123.30
23	B	603	CLA	CHD-C4C-NC	2.81	128.63	124.20
23	b	603	CLA	C4-C3-C5	2.81	120.00	115.27
23	A	406[A]	CLA	C4-C3-C5	2.81	119.99	115.27
29	A	414[A]	PL9	C30-C29-C31	2.81	119.99	115.27
29	D	405[B]	PL9	C40-C39-C41	2.81	119.99	115.27
23	B	614	CLA	O2A-CGA-CBA	2.81	120.72	111.91
25	t	102	BCR	C11-C10-C9	-2.81	123.31	127.31
23	B	613	CLA	O2A-CGA-CBA	2.80	120.71	111.91
25	H	101	BCR	C10-C11-C12	-2.80	114.47	123.22
23	A	408	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
25	B	619	BCR	C7-C8-C9	-2.80	122.00	126.23
23	C	505	CLA	C1D-CHD-C4C	-2.80	120.01	126.06
23	a	406[B]	CLA	C4-C3-C5	2.80	119.99	115.27
23	D	403	CLA	CMA-C3A-C2A	-2.80	102.52	113.83
23	c	502	CLA	CHC-C1C-C2C	-2.80	118.97	126.72
23	A	405[A]	CLA	CHC-C1C-C2C	-2.80	118.97	126.72
25	T	101	BCR	C15-C14-C13	2.80	131.31	127.31
29	a	413[A]	PL9	C22-C23-C24	-2.80	120.92	127.66
23	a	406[B]	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
33	D	411	LMG	O8-C28-C29	2.80	120.69	111.91
23	D	403	CLA	CMA-C3A-C4A	-2.80	104.25	111.77
23	B	609	CLA	C3B-C4B-NB	2.80	112.83	109.21
23	a	406[A]	CLA	CHC-C1C-C2C	-2.80	118.98	126.72
24	A	407[B]	PHO	C1-C2-C3	-2.80	121.21	126.04
23	c	506	CLA	CMC-C2C-C1C	2.80	129.30	125.04
23	b	605	CLA	C3B-C4B-NB	2.79	112.82	109.21
29	D	405[B]	PL9	C51-C49-C50	2.79	120.78	114.60
23	C	504	CLA	O2A-CGA-O1A	-2.79	116.54	123.59
23	b	610	CLA	C3B-C4B-NB	2.79	112.82	109.21
23	B	605	CLA	CMC-C2C-C1C	2.79	129.29	125.04
25	k	101	BCR	C39-C30-C25	-2.79	105.77	110.30
25	y	101	BCR	C34-C9-C8	2.79	122.47	118.08
23	A	404[B]	CLA	CMB-C2B-C3B	2.79	129.90	124.68
23	C	502	CLA	CHC-C1C-C2C	-2.79	119.01	126.72
23	A	404[B]	CLA	CHD-C4C-NC	2.79	128.59	124.20
35	C	519	DGD	O2G-C1B-C2B	2.79	117.50	111.50
26	f	102	SQD	C4-C3-C2	-2.79	105.96	110.82
25	c	514	BCR	C33-C5-C6	-2.79	121.40	124.53
23	b	616	CLA	CMC-C2C-C1C	2.79	129.28	125.04
23	B	609	CLA	CHD-C4C-NC	2.79	128.59	124.20
25	B	618	BCR	C2-C1-C6	2.78	114.76	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	M	101	LMT	C3'-C4'-C5'	-2.78	104.55	110.93
25	y	101	BCR	C24-C23-C22	-2.78	122.04	126.23
31	A	420	LMT	O5B-C5B-C4B	2.78	114.74	109.69
23	d	403	CLA	O2A-CGA-CBA	2.77	120.61	111.91
32	b	629[B]	LHG	O8-C23-C24	2.77	120.61	111.91
29	d	405[B]	PL9	C17-C18-C19	-2.77	120.98	127.66
23	B	603	CLA	C2A-C1A-CHA	-2.77	119.01	123.86
23	b	607	CLA	CBC-CAC-C3C	-2.77	104.79	112.43
23	b	605	CLA	O2A-CGA-O1A	-2.77	116.59	123.59
23	B	602	CLA	C4C-C3C-C2C	-2.77	102.86	106.90
23	A	405[A]	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
35	c	518	DGD	O2G-C1B-C2B	2.77	117.47	111.50
24	a	407[A]	PHO	CMB-C2B-C3B	2.77	129.86	124.68
24	A	407[B]	PHO	O1D-CGD-CBD	-2.77	120.13	124.74
23	c	511	CLA	CHC-C1C-C2C	-2.77	119.07	126.72
31	F	101	LMT	C1'-O5'-C5'	-2.76	108.26	113.69
23	B	601	CLA	C1-O2A-CGA	2.76	123.69	116.44
23	a	408	CLA	C4C-C3C-C2C	-2.76	102.87	106.90
23	a	405[A]	CLA	O2A-CGA-CBA	2.76	120.58	111.91
23	c	504	CLA	CHC-C1C-C2C	-2.76	119.08	126.72
23	a	406[A]	CLA	O2A-CGA-O1A	-2.76	116.62	123.59
23	c	510	CLA	CBC-CAC-C3C	-2.76	104.82	112.43
32	D	407[B]	LHG	O8-C23-C24	2.76	120.57	111.91
23	c	504	CLA	CED-O2D-CGD	2.76	122.18	115.94
35	C	518[B]	DGD	C2G-O2G-C1B	-2.76	111.00	117.79
25	d	404	BCR	C11-C10-C9	-2.76	123.37	127.31
31	m	103	LMT	C3'-C4'-C5'	-2.76	104.61	110.93
23	d	403	CLA	CMC-C2C-C1C	2.76	129.24	125.04
23	C	503	CLA	CHC-C1C-C2C	-2.76	119.10	126.72
25	H	101	BCR	C16-C15-C14	-2.76	117.83	123.47
32	D	406[A]	LHG	O7-C7-C8	2.75	117.44	111.50
34	o	301	HTG	C1-O5-C5	2.75	117.66	112.58
23	B	611	CLA	C1C-C2C-C3C	-2.75	104.06	106.96
23	c	508	CLA	O2A-CGA-O1A	-2.75	116.64	123.59
23	c	502	CLA	O2A-CGA-CBA	2.75	120.55	111.91
23	A	406[B]	CLA	C1-C2-C3	-2.75	121.28	126.04
23	B	604	CLA	O2A-CGA-O1A	-2.75	116.65	123.59
23	b	609	CLA	CMC-C2C-C1C	2.75	129.23	125.04
23	C	512	CLA	C1-O2A-CGA	2.75	123.66	116.44
23	B	603	CLA	CHC-C1C-C2C	-2.75	119.12	126.72
23	c	507	CLA	O2A-CGA-CBA	2.75	120.53	111.91
25	d	404	BCR	C28-C27-C26	-2.75	109.17	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	609	CLA	CHD-C4C-NC	2.75	128.53	124.20
23	C	514	CLA	O2D-CGD-O1D	-2.75	118.47	123.84
23	A	406[B]	CLA	C2A-C1A-CHA	-2.75	119.06	123.86
24	A	407[B]	PHO	CMB-C2B-C3B	2.75	129.82	124.68
32	d	413[B]	LHG	O8-C23-O10	-2.75	116.66	123.59
23	c	504	CLA	O2A-CGA-CBA	2.75	120.52	111.91
23	c	507	CLA	CAC-C3C-C4C	2.74	128.37	124.81
29	d	405[A]	PL9	C36-C37-C38	-2.74	102.86	111.88
25	y	101	BCR	C21-C20-C19	-2.74	114.66	123.22
25	K	102	BCR	C20-C21-C22	-2.74	123.40	127.31
23	C	508	CLA	C4-C3-C5	2.74	119.88	115.27
23	B	609	CLA	O2A-CGA-O1A	-2.74	116.68	123.59
23	B	616	CLA	CHC-C1C-C2C	-2.74	119.15	126.72
26	a	410[B]	SQD	O9-S-C6	2.74	110.19	106.94
23	c	513	CLA	CHC-C1C-C2C	-2.74	119.15	126.72
23	B	604	CLA	CMC-C2C-C1C	2.73	129.20	125.04
23	c	501	CLA	CMC-C2C-C1C	2.73	129.20	125.04
23	B	607	CLA	CED-O2D-CGD	2.73	122.12	115.94
23	c	512	CLA	C3B-C4B-NB	2.73	112.74	109.21
23	D	403	CLA	C2A-C1A-CHA	-2.73	119.08	123.86
23	a	404[B]	CLA	C2A-C1A-CHA	-2.73	119.08	123.86
23	B	615	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
23	D	403	CLA	O2A-CGA-O1A	-2.73	116.70	123.59
23	C	503	CLA	O2A-CGA-O1A	-2.73	116.71	123.59
23	C	512	CLA	C1-C2-C3	-2.73	121.33	126.04
26	B	620	SQD	C4-C3-C2	2.73	115.58	110.82
23	c	506	CLA	C4C-C3C-C2C	-2.73	102.92	106.90
23	C	506	CLA	CMC-C2C-C1C	2.72	129.18	125.04
23	B	612	CLA	C4-C3-C5	2.72	119.85	115.27
25	T	101	BCR	C33-C5-C6	-2.72	121.47	124.53
29	d	405[A]	PL9	C27-C28-C29	-2.72	121.11	127.66
23	C	506	CLA	O2A-CGA-O1A	-2.72	116.73	123.59
23	B	608	CLA	O2A-CGA-O1A	-2.72	116.74	123.59
23	C	505	CLA	CMB-C2B-C3B	2.72	129.76	124.68
23	a	406[B]	CLA	CHC-C1C-C2C	-2.72	119.21	126.72
23	b	614	CLA	CMC-C2C-C1C	2.72	129.17	125.04
32	A	419[B]	LHG	O8-C23-O10	-2.71	116.74	123.59
23	b	603	CLA	CHC-C1C-C2C	-2.71	119.22	126.72
25	T	101	BCR	C21-C20-C19	-2.71	114.75	123.22
23	c	512	CLA	CHC-C1C-C2C	-2.71	119.22	126.72
23	c	513	CLA	CAA-C2A-C3A	-2.71	105.35	112.78
23	B	604	CLA	C11-C12-C13	-2.71	107.15	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	606	CLA	C3B-C4B-NB	2.71	112.72	109.21
23	C	514	CLA	CHD-C4C-NC	2.71	128.48	124.20
23	B	607	CLA	CMC-C2C-C1C	2.71	129.16	125.04
23	b	603	CLA	O2A-CGA-CBA	2.71	120.41	111.91
23	b	614	CLA	CHD-C4C-NC	2.71	128.47	124.20
23	c	510	CLA	O2A-CGA-O1A	-2.71	116.76	123.59
23	B	604	CLA	C6-C5-C3	-2.71	106.36	113.45
23	b	602	CLA	C1-O2A-CGA	2.70	123.54	116.44
25	c	514	BCR	C28-C27-C26	-2.70	109.25	114.08
23	b	616	CLA	C3B-C4B-NB	2.70	112.70	109.21
23	C	511	CLA	O2A-CGA-O1A	-2.70	116.78	123.59
23	C	511	CLA	O2A-CGA-CBA	2.70	120.38	111.91
33	D	411	LMG	O8-C28-O10	-2.70	116.78	123.59
25	B	617	BCR	C7-C8-C9	-2.70	122.16	126.23
23	B	610	CLA	CAC-C3C-C4C	2.70	128.31	124.81
23	C	503	CLA	CHD-C4C-NC	2.70	128.45	124.20
23	C	507	CLA	C4-C3-C5	2.70	119.81	115.27
24	a	407[B]	PHO	C1A-C2A-C3A	-2.69	100.28	102.84
23	b	603	CLA	O2A-CGA-O1A	-2.69	116.79	123.59
23	c	508	CLA	O2A-CGA-CBA	2.69	120.36	111.91
23	a	404[A]	CLA	C2A-C1A-CHA	-2.69	119.15	123.86
26	f	102	SQD	O48-C23-C24	2.69	120.36	111.91
23	C	514	CLA	C2A-C1A-CHA	-2.69	119.15	123.86
23	c	513	CLA	C2A-C1A-CHA	-2.69	119.15	123.86
31	a	417	LMT	C3'-C4'-C5'	-2.69	104.75	110.93
29	A	414[B]	PL9	C12-C13-C14	-2.69	121.18	127.66
23	B	612	CLA	CMC-C2C-C1C	2.69	129.14	125.04
35	H	102	DGD	O3G-C3G-C2G	-2.69	104.41	110.90
32	L	101[A]	LHG	O8-C23-O10	-2.69	116.80	123.59
23	c	501	CLA	CHC-C1C-C2C	-2.69	119.28	126.72
23	B	602	CLA	CHD-C4C-NC	2.69	128.44	124.20
23	c	510	CLA	CAC-C3C-C4C	2.69	128.30	124.81
23	D	402[A]	CLA	CAC-C3C-C4C	2.69	128.30	124.81
23	B	616	CLA	C1-O2A-CGA	2.69	123.49	116.44
25	h	101	BCR	C20-C21-C22	-2.69	123.48	127.31
23	A	404[B]	CLA	C2A-C1A-CHA	-2.69	119.16	123.86
29	D	405[B]	PL9	C17-C18-C19	-2.68	121.19	127.66
23	C	514	CLA	C4C-C3C-C2C	-2.68	102.98	106.90
23	b	611	CLA	O2A-CGA-O1A	-2.68	116.82	123.59
23	C	503	CLA	CBC-CAC-C3C	-2.68	105.03	112.43
23	a	408	CLA	CBC-CAC-C3C	-2.68	105.04	112.43
23	C	510	CLA	C16-C15-C13	-2.68	107.25	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	b	629[A]	LHG	O8-C23-C24	2.68	120.32	111.91
26	B	620	SQD	O48-C23-O10	-2.68	116.83	123.59
23	C	503	CLA	O2A-CGA-CBA	2.68	120.32	111.91
23	b	607	CLA	O2A-CGA-O1A	-2.68	116.83	123.59
23	B	607	CLA	C2A-C1A-CHA	-2.68	119.17	123.86
23	a	404[B]	CLA	CAA-C2A-C1A	-2.68	103.20	111.97
23	B	616	CLA	C2A-C1A-CHA	-2.68	119.18	123.86
29	A	414[B]	PL9	C45-C44-C46	2.68	119.77	115.27
23	C	512	CLA	CHD-C4C-NC	2.67	128.42	124.20
23	A	404[A]	CLA	CMA-C3A-C2A	-2.67	103.05	113.83
33	c	520	LMG	O8-C28-C29	2.67	120.29	111.91
23	b	611	CLA	CMC-C2C-C1C	2.67	129.10	125.04
23	d	402[B]	CLA	C2A-C1A-CHA	-2.67	119.19	123.86
23	c	510	CLA	CHC-C1C-C2C	-2.67	119.34	126.72
23	B	608	CLA	CMB-C2B-C3B	2.67	129.67	124.68
23	a	405[A]	CLA	C4C-C3C-C2C	-2.67	103.01	106.90
23	B	601	CLA	C3B-C4B-NB	2.66	112.66	109.21
23	A	406[B]	CLA	CBC-CAC-C3C	-2.66	105.09	112.43
23	C	508	CLA	CHC-C1C-C2C	-2.66	119.35	126.72
29	a	413[B]	PL9	C53-C6-C1	2.66	120.43	114.99
25	h	101	BCR	C16-C15-C14	-2.66	118.02	123.47
23	D	402[A]	CLA	CHC-C1C-C2C	-2.66	119.36	126.72
25	k	101	BCR	C2-C1-C6	2.66	114.58	110.48
23	c	501	CLA	CHD-C4C-NC	2.66	128.40	124.20
23	C	513	CLA	CBA-CAA-C2A	-2.66	106.01	113.86
31	B	627	LMT	C2'-C3'-C4'	2.66	115.75	109.68
23	C	502	CLA	C4-C3-C5	2.66	119.74	115.27
32	a	420[A]	LHG	O8-C23-C24	2.66	120.25	111.91
23	c	506	CLA	CHD-C4C-NC	2.66	128.39	124.20
23	b	615	CLA	C1-C2-C3	-2.66	121.45	126.04
23	c	504	CLA	CAC-C3C-C4C	2.66	128.26	124.81
24	A	407[A]	PHO	C1-C2-C3	-2.66	121.45	126.04
23	B	604	CLA	O2A-CGA-CBA	2.66	120.24	111.91
25	y	101	BCR	C11-C10-C9	-2.65	123.52	127.31
23	B	602	CLA	C1-C2-C3	-2.65	121.45	126.04
23	C	513	CLA	CHB-C4A-NA	2.65	128.18	124.51
23	B	615	CLA	CHC-C1C-C2C	-2.65	119.39	126.72
23	B	608	CLA	CHB-C4A-NA	2.65	128.18	124.51
23	a	405[A]	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
23	d	402[A]	CLA	CAC-C3C-C4C	2.65	128.25	124.81
23	C	509	CLA	O2A-CGA-O1A	-2.65	116.90	123.59
35	C	518[A]	DGD	O1G-C1A-O1A	-2.65	116.90	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	d	402[A]	CLA	C2A-C1A-CHA	-2.65	119.23	123.86
23	A	405[A]	CLA	C4-C3-C5	2.65	119.73	115.27
23	C	512	CLA	CMB-C2B-C3B	2.65	129.63	124.68
26	f	102	SQD	O5-C1-C2	2.65	115.95	110.35
31	b	621	LMT	C1'-O5'-C5'	-2.65	108.49	113.69
35	H	102	DGD	O1G-C1A-C2A	2.65	120.21	111.91
29	a	413[A]	PL9	C40-C39-C41	2.65	119.72	115.27
23	c	504	CLA	O2A-CGA-O1A	-2.65	116.92	123.59
29	A	414[B]	PL9	C10-C9-C11	2.64	119.72	115.27
23	D	402[A]	CLA	C2A-C1A-CHA	-2.64	119.24	123.86
23	A	405[B]	CLA	C4C-C3C-C2C	-2.64	103.04	106.90
23	C	507	CLA	CAA-C2A-C3A	-2.64	105.54	112.78
32	D	406[A]	LHG	O8-C23-C24	2.64	120.20	111.91
26	a	411	SQD	O7-S-C6	2.64	110.08	106.94
23	b	608	CLA	O2A-CGA-O1A	-2.64	116.92	123.59
25	c	514	BCR	C36-C18-C17	-2.64	119.22	122.92
23	C	506	CLA	O2A-CGA-CBA	2.64	120.20	111.91
23	C	514	CLA	C1-C2-C3	-2.64	121.47	126.04
25	K	102	BCR	C3-C4-C5	-2.64	109.36	114.08
23	B	614	CLA	C4C-C3C-C2C	-2.64	103.05	106.90
23	c	509	CLA	CHD-C4C-NC	2.64	128.36	124.20
23	C	510	CLA	CHD-C4C-NC	2.64	128.36	124.20
29	D	405[B]	PL9	C22-C23-C24	-2.64	121.31	127.66
23	C	507	CLA	C2A-C1A-CHA	-2.64	119.25	123.86
23	b	611	CLA	C2A-C1A-CHA	-2.64	119.25	123.86
23	b	615	CLA	O2A-CGA-O1A	-2.63	116.94	123.59
23	B	607	CLA	CHC-C1C-C2C	-2.63	119.44	126.72
23	b	612	CLA	CHC-C1C-C2C	-2.63	119.44	126.72
24	a	415[B]	PHO	CMC-C2C-C3C	2.63	129.91	124.94
29	A	414[A]	PL9	C40-C39-C41	2.63	119.70	115.27
23	c	511	CLA	CMC-C2C-C1C	2.63	129.05	125.04
40	v	201	HEC	C1D-C2D-C3D	-2.63	105.17	107.00
23	d	403	CLA	CHC-C1C-C2C	-2.63	119.45	126.72
35	C	518[B]	DGD	O1G-C1A-O1A	-2.63	116.95	123.59
23	c	507	CLA	C3B-C4B-NB	2.63	112.61	109.21
23	c	501	CLA	O2A-CGA-CBA	2.63	120.16	111.91
23	a	408	CLA	C2A-C1A-CHA	-2.63	119.27	123.86
23	b	605	CLA	C1-O2A-CGA	2.62	123.33	116.44
23	D	402[B]	CLA	O2D-CGD-O1D	-2.62	118.71	123.84
23	b	603	CLA	CHD-C4C-NC	2.62	128.34	124.20
23	b	613	CLA	CMA-C3A-C4A	-2.62	104.73	111.77
25	y	101	BCR	C34-C9-C10	-2.62	119.25	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	405[B]	CLA	C4-C3-C5	2.62	119.68	115.27
23	C	514	CLA	O2A-CGA-CBA	2.62	120.13	111.91
23	C	510	CLA	CHC-C1C-C2C	-2.62	119.48	126.72
25	t	102	BCR	C28-C27-C26	-2.62	109.40	114.08
26	F	103	SQD	O47-C7-O49	-2.62	117.38	123.70
23	B	601	CLA	O2A-CGA-CBA	2.62	120.12	111.91
32	a	420[B]	LHG	O8-C23-C24	2.61	120.11	111.91
23	c	510	CLA	C4C-C3C-C2C	-2.61	103.09	106.90
23	C	510	CLA	O2D-CGD-O1D	-2.61	118.73	123.84
23	b	604	CLA	C4-C3-C5	2.61	119.66	115.27
29	a	413[A]	PL9	C47-C48-C49	-2.61	118.83	127.75
23	a	406[A]	CLA	O2A-CGA-CBA	2.61	120.10	111.91
23	c	507	CLA	O1D-CGD-CBD	-2.61	119.14	124.48
23	B	603	CLA	CAC-C3C-C4C	2.61	128.19	124.81
23	C	502	CLA	C1-C2-C3	-2.61	121.53	126.04
32	d	407[A]	LHG	O8-C23-C24	2.61	120.09	111.91
23	c	506	CLA	O2A-CGA-O1A	-2.61	117.01	123.59
23	b	601	CLA	CHC-C1C-C2C	-2.61	119.51	126.72
23	B	614	CLA	C2A-C1A-CHA	-2.61	119.30	123.86
23	C	511	CLA	C2A-C1A-CHA	-2.61	119.30	123.86
26	a	410[B]	SQD	O8-S-C6	2.61	109.89	105.74
23	c	505	CLA	C1-O2A-CGA	2.61	123.28	116.44
23	B	615	CLA	C4C-C3C-C2C	-2.60	103.10	106.90
33	B	621	LMG	O8-C28-O10	-2.60	117.02	123.59
23	A	405[A]	CLA	CMA-C3A-C2A	-2.60	103.33	113.83
23	c	504	CLA	CHD-C4C-NC	2.60	128.30	124.20
25	Y	101	BCR	C15-C16-C17	-2.60	118.14	123.47
33	m	101	LMG	C3-C4-C5	2.60	114.88	110.24
32	D	406[B]	LHG	O8-C23-O10	-2.60	117.03	123.59
29	a	413[A]	PL9	C10-C9-C8	-2.60	117.01	123.68
23	C	503	CLA	C2A-C1A-CHA	-2.60	119.31	123.86
23	C	506	CLA	CHD-C4C-NC	2.60	128.30	124.20
38	f	101	HEM	CMD-C2D-C1D	2.60	129.00	125.04
35	c	518	DGD	O3G-C1D-C2D	-2.60	104.25	108.30
35	C	519	DGD	O3G-C3G-C2G	-2.60	104.63	110.90
23	c	513	CLA	CMC-C2C-C1C	2.60	129.00	125.04
29	d	405[B]	PL9	C53-C6-C1	2.60	120.30	114.99
23	C	512	CLA	CHC-C1C-C2C	-2.60	119.54	126.72
23	a	406[A]	CLA	CMC-C2C-C1C	2.60	128.99	125.04
24	A	407[A]	PHO	O2A-CGA-CBA	2.59	120.05	111.91
23	B	602	CLA	C11-C12-C13	-2.59	107.53	115.92
23	B	606	CLA	O2A-CGA-CBA	2.59	120.05	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	508	CLA	O2A-CGA-CBA	2.59	120.05	111.91
23	D	402[B]	CLA	CMB-C2B-C3B	2.59	129.53	124.68
23	b	610	CLA	CHC-C1C-C2C	-2.59	119.55	126.72
23	B	606	CLA	CHC-C1C-C2C	-2.59	119.55	126.72
23	A	406[B]	CLA	CMC-C2C-C1C	2.59	128.98	125.04
23	D	403	CLA	CAA-C2A-C3A	-2.59	105.69	112.78
23	a	405[A]	CLA	O2A-CGA-O1A	-2.59	117.06	123.59
23	C	502	CLA	C4C-C3C-C2C	-2.59	103.13	106.90
23	A	406[A]	CLA	CHC-C1C-C2C	-2.59	119.57	126.72
35	c	516[B]	DGD	O3G-C3G-C2G	-2.59	104.66	110.90
38	F	102	HEM	O2A-CGA-CBA	2.58	122.33	114.03
31	B	631	LMT	C3'-C4'-C5'	-2.58	105.00	110.93
31	M	103	LMT	C1'-O5'-C5'	-2.58	108.62	113.69
23	d	402[B]	CLA	CMB-C2B-C3B	2.58	129.51	124.68
25	D	404	BCR	C40-C30-C25	-2.58	106.11	110.30
34	o	301	HTG	C2'-C1'-S1	-2.58	104.07	112.40
23	c	509	CLA	O2A-CGA-CBA	2.58	120.00	111.91
32	A	419[B]	LHG	O8-C23-C24	2.58	120.00	111.91
23	c	508	CLA	CAC-C3C-C4C	2.58	128.16	124.81
33	B	621	LMG	C3-C4-C5	2.58	114.84	110.24
23	A	405[A]	CLA	C2A-C1A-CHA	-2.58	119.35	123.86
23	B	606	CLA	C2A-C1A-CHA	-2.58	119.35	123.86
23	b	607	CLA	C4-C3-C5	2.58	119.60	115.27
25	Y	101	BCR	C37-C22-C23	2.57	122.13	118.08
25	c	515	BCR	C21-C20-C19	-2.57	115.18	123.22
32	A	419[B]	LHG	O7-C7-O9	-2.57	117.48	123.70
31	M	103	LMT	C3'-C4'-C5'	-2.57	105.03	110.93
23	b	603	CLA	CBC-CAC-C3C	-2.57	105.34	112.43
33	C	501	LMG	C6-C5-C4	2.57	119.03	113.00
23	C	507	CLA	CMB-C2B-C3B	2.57	129.49	124.68
23	D	402[A]	CLA	O2A-CGA-O1A	-2.57	117.10	123.59
23	B	606	CLA	C1-C2-C3	-2.57	121.59	126.04
35	H	102	DGD	C3E-C4E-C5E	-2.57	105.65	110.24
25	T	101	BCR	C35-C13-C12	2.57	122.13	118.08
23	b	609	CLA	O2A-CGA-CBA	2.57	119.98	111.91
23	a	408	CLA	CMB-C2B-C3B	2.57	129.49	124.68
25	B	617	BCR	C15-C14-C13	-2.57	123.64	127.31
29	d	405[B]	PL9	C12-C13-C14	-2.57	121.47	127.66
24	A	416[B]	PHO	CMB-C2B-C3B	2.57	129.49	124.68
24	A	407[A]	PHO	O1D-CGD-CBD	-2.57	120.46	124.74
23	a	405[B]	CLA	CMA-C3A-C2A	-2.57	103.46	113.83
23	D	402[B]	CLA	CAC-C3C-C4C	2.57	128.14	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	c	511	CLA	CBC-CAC-C3C	-2.57	105.35	112.43
26	A	410[A]	SQD	O48-C23-O10	-2.57	117.11	123.59
31	B	629	LMT	O5'-C5'-C6'	2.57	112.82	106.44
24	A	407[A]	PHO	O2A-CGA-O1A	-2.57	117.12	123.59
23	B	607	CLA	C4C-C3C-C2C	-2.57	103.16	106.90
31	e	101	LMT	O1'-C1'-C2'	2.57	112.31	108.30
23	D	403	CLA	CHC-C1C-C2C	-2.57	119.63	126.72
24	a	407[B]	PHO	CMB-C2B-C3B	2.56	129.47	124.68
23	b	601	CLA	C2A-C1A-CHA	-2.56	119.38	123.86
23	c	510	CLA	O2A-CGA-CBA	2.56	119.95	111.91
23	b	610	CLA	CAA-CBA-CGA	-2.56	105.77	113.25
33	C	501	LMG	C8-O7-C10	-2.56	111.49	117.79
29	A	414[A]	PL9	C10-C9-C8	-2.56	117.11	123.68
23	C	514	CLA	CAA-C2A-C3A	-2.56	105.77	112.78
23	a	408	CLA	C3B-C4B-NB	2.56	112.52	109.21
23	b	603	CLA	C7-C6-C5	-2.56	106.41	113.36
25	k	101	BCR	C24-C23-C22	-2.56	122.37	126.23
23	C	503	CLA	C4C-C3C-C2C	-2.56	103.17	106.90
23	d	403	CLA	C4-C3-C5	2.56	119.57	115.27
23	a	408	CLA	CHD-C4C-NC	2.56	128.23	124.20
23	c	505	CLA	CHC-C1C-C2C	-2.55	119.66	126.72
23	b	613	CLA	O2D-CGD-O1D	-2.55	118.84	123.84
23	c	508	CLA	CHD-C4C-NC	2.55	128.22	124.20
23	D	402[B]	CLA	C2A-C1A-CHA	-2.55	119.40	123.86
23	b	614	CLA	CBC-CAC-C3C	-2.55	105.40	112.43
23	A	408	CLA	C4-C3-C5	2.55	119.56	115.27
23	c	501	CLA	O2A-CGA-O1A	-2.55	117.15	123.59
35	C	518[B]	DGD	O1G-C1A-C2A	2.55	119.91	111.91
25	K	102	BCR	C38-C26-C25	-2.55	121.66	124.53
31	A	420	LMT	O5'-C5'-C6'	2.55	112.78	106.44
23	b	611	CLA	CMB-C2B-C3B	2.55	129.45	124.68
23	B	615	CLA	C6-C7-C8	-2.55	107.68	115.92
23	A	405[B]	CLA	CED-O2D-CGD	2.55	121.70	115.94
24	A	407[B]	PHO	O2A-CGA-CBA	2.55	119.91	111.91
25	y	101	BCR	C10-C11-C12	-2.55	115.27	123.22
31	B	627	LMT	C1B-C2B-C3B	2.55	115.30	110.00
31	b	621	LMT	C1-O1'-C1'	2.55	118.06	113.84
25	H	101	BCR	C7-C8-C9	-2.55	122.39	126.23
23	C	505	CLA	CBC-CAC-C3C	-2.55	105.41	112.43
23	A	405[A]	CLA	O2A-CGA-O1A	-2.54	117.17	123.59
23	d	402[A]	CLA	CAA-C2A-C3A	-2.54	105.81	112.78
23	C	502	CLA	C11-C12-C13	-2.54	107.69	115.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	a	405[B]	CLA	C4-C3-C5	2.54	119.55	115.27
29	A	414[A]	PL9	C47-C48-C49	-2.54	119.05	127.75
25	D	404	BCR	C29-C28-C27	-2.54	105.69	111.38
23	A	408	CLA	CMC-C2C-C1C	2.54	128.91	125.04
24	a	407[B]	PHO	O2A-CGA-CBA	2.54	119.88	111.91
23	C	504	CLA	CHC-C1C-C2C	-2.54	119.70	126.72
29	d	405[B]	PL9	C27-C28-C29	-2.54	121.55	127.66
27	b	628	GOL	C3-C2-C1	-2.54	101.84	111.70
25	c	514	BCR	C31-C1-C6	-2.54	106.18	110.30
23	c	503	CLA	CHD-C4C-NC	2.54	128.20	124.20
23	b	608	CLA	O2A-CGA-CBA	2.54	119.87	111.91
23	B	612	CLA	CHC-C1C-C2C	-2.53	119.71	126.72
34	b	622	HTG	O5-C1-C2	2.53	113.50	110.31
23	c	508	CLA	CAA-C2A-C3A	-2.53	105.84	112.78
23	b	616	CLA	CHC-C1C-C2C	-2.53	119.72	126.72
23	B	608	CLA	CMA-C3A-C2A	-2.53	103.62	113.83
23	B	608	CLA	CAA-C2A-C3A	-2.53	105.85	112.78
23	a	406[B]	CLA	CBC-CAC-C3C	-2.53	105.46	112.43
40	V	201	HEC	CMB-C2B-C3B	2.53	128.79	125.82
23	B	615	CLA	C2A-C1A-CHA	-2.53	119.44	123.86
29	a	413[B]	PL9	C20-C19-C21	2.53	119.53	115.27
23	B	613	CLA	CHC-C1C-C2C	-2.53	119.73	126.72
29	a	413[B]	PL9	C10-C9-C11	2.53	119.52	115.27
23	C	502	CLA	O2A-CGA-O1A	-2.53	117.21	123.59
32	d	407[B]	LHG	O8-C23-C24	2.53	119.83	111.91
23	C	511	CLA	CMB-C2B-C3B	2.52	129.40	124.68
25	c	515	BCR	C11-C10-C9	-2.52	123.71	127.31
23	b	606	CLA	CMB-C2B-C3B	2.52	129.40	124.68
33	C	520	LMG	O8-C28-O10	-2.52	117.23	123.59
23	C	509	CLA	O2D-CGD-O1D	-2.52	118.91	123.84
23	b	607	CLA	CAC-C3C-C4C	2.52	128.08	124.81
23	a	405[A]	CLA	CAA-CBA-CGA	2.51	120.59	113.25
23	b	615	CLA	C6-C7-C8	-2.51	107.80	115.92
23	c	507	CLA	O2A-CGA-O1A	-2.51	117.25	123.59
23	d	402[A]	CLA	CMC-C2C-C1C	2.51	128.86	125.04
23	c	513	CLA	O2A-CGA-O1A	-2.51	117.26	123.59
35	H	102	DGD	O1G-C1A-O1A	-2.51	117.26	123.59
23	d	402[B]	CLA	O2A-CGA-O1A	-2.51	117.26	123.59
23	A	406[B]	CLA	CHC-C1C-C2C	-2.51	119.78	126.72
35	c	516[B]	DGD	C2G-O2G-C1B	-2.51	111.62	117.79
23	C	507	CLA	CBC-CAC-C3C	-2.51	105.52	112.43
23	A	406[A]	CLA	C2A-C1A-CHA	-2.51	119.47	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	D	405[B]	PL9	C45-C44-C46	2.51	119.49	115.27
25	d	404	BCR	C40-C30-C39	2.51	116.22	108.53
23	a	404[A]	CLA	CHD-C4C-NC	2.51	128.15	124.20
23	c	503	CLA	CMC-C2C-C1C	2.51	128.85	125.04
23	A	408	CLA	CHD-C4C-NC	2.51	128.15	124.20
23	C	508	CLA	C1-C2-C3	-2.51	121.71	126.04
23	C	510	CLA	C2A-C1A-CHA	-2.50	119.48	123.86
29	D	405[A]	PL9	C42-C41-C39	-2.50	104.75	112.98
23	b	604	CLA	CAC-C3C-C4C	2.50	128.05	124.81
23	b	602	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
23	a	404[B]	CLA	CMB-C2B-C3B	2.50	129.35	124.68
23	B	603	CLA	C7-C6-C5	-2.50	106.57	113.36
23	a	406[B]	CLA	O2A-CGA-O1A	-2.50	117.29	123.59
32	L	101[B]	LHG	O8-C23-C24	2.50	119.75	111.91
35	c	517[A]	DGD	O1G-C1A-C2A	2.50	119.74	111.91
23	B	601	CLA	CBC-CAC-C3C	-2.50	105.55	112.43
24	a	415[B]	PHO	O1D-CGD-CBD	-2.49	120.58	124.74
23	a	404[A]	CLA	C4C-C3C-C2C	-2.49	103.26	106.90
25	a	409	BCR	C29-C30-C25	2.49	114.32	110.48
23	c	503	CLA	C2A-C1A-CHA	-2.49	119.50	123.86
25	c	515	BCR	C7-C8-C9	-2.49	122.47	126.23
33	d	411	LMG	O8-C28-O10	-2.49	117.31	123.59
23	a	406[B]	CLA	CMC-C2C-C1C	2.49	128.83	125.04
23	C	514	CLA	CHC-C1C-C2C	-2.49	119.84	126.72
35	H	102	DGD	C2G-O2G-C1B	-2.49	111.67	117.79
23	C	508	CLA	CHD-C4C-NC	2.49	128.12	124.20
26	a	410[A]	SQD	O8-S-C6	2.49	109.70	105.74
34	B	624	HTG	C1'-S1-C1	2.48	104.74	100.09
23	c	505	CLA	C3B-C4B-NB	2.48	112.42	109.21
23	b	606	CLA	CAA-C2A-C3A	-2.48	105.98	112.78
25	d	404	BCR	C21-C20-C19	-2.48	115.47	123.22
23	a	405[A]	CLA	CBC-CAC-C3C	-2.48	105.59	112.43
23	C	511	CLA	CMC-C2C-C1C	2.48	128.82	125.04
31	A	420	LMT	O1'-C1'-C2'	2.48	112.18	108.30
23	B	602	CLA	CHC-C1C-C2C	-2.48	119.86	126.72
23	b	606	CLA	CMC-C2C-C1C	2.48	128.82	125.04
23	c	511	CLA	O2A-CGA-O1A	-2.48	117.34	123.59
23	A	406[A]	CLA	CMB-C2B-C1B	2.48	132.27	128.46
25	t	102	BCR	C36-C18-C19	2.48	121.98	118.08
34	b	622	HTG	O2-C2-C3	-2.48	104.62	110.35
23	C	513	CLA	CMB-C2B-C3B	2.48	129.31	124.68
25	K	102	BCR	C2-C1-C6	2.47	114.29	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	a	407[B]	PHO	O1D-CGD-CBD	-2.47	120.62	124.74
29	D	405[A]	PL9	C20-C19-C21	2.47	119.43	115.27
23	A	404[B]	CLA	CAA-C2A-C1A	-2.47	103.87	111.97
34	b	623	HTG	O5-C1-C2	2.47	113.42	110.31
23	b	610	CLA	C4-C3-C5	2.47	119.43	115.27
23	b	613	CLA	CED-O2D-CGD	2.47	121.53	115.94
35	c	516[A]	DGD	C2G-O2G-C1B	-2.47	111.70	117.79
23	A	408	CLA	CAC-C3C-C4C	2.47	128.02	124.81
23	b	604	CLA	O2A-CGA-O1A	-2.47	117.36	123.59
23	B	607	CLA	CAA-CBA-CGA	2.47	120.47	113.25
23	c	503	CLA	CHC-C1C-C2C	-2.47	119.89	126.72
25	c	515	BCR	C33-C5-C6	-2.47	121.75	124.53
23	b	602	CLA	C11-C10-C8	-2.47	107.94	115.92
29	D	405[B]	PL9	C7-C8-C9	-2.47	122.68	126.79
23	B	613	CLA	CHB-C4A-NA	2.47	127.92	124.51
23	c	505	CLA	O2A-CGA-CBA	2.47	119.64	111.91
23	D	402[B]	CLA	CAA-C2A-C3A	-2.46	106.03	112.78
23	b	614	CLA	C2A-C1A-CHA	-2.46	119.55	123.86
23	c	507	CLA	C4C-C3C-C2C	-2.46	103.31	106.90
23	c	507	CLA	CHD-C4C-NC	2.46	128.09	124.20
26	a	410[B]	SQD	O47-C7-O49	-2.46	117.75	123.70
23	b	613	CLA	CMB-C2B-C3B	2.46	129.29	124.68
23	a	405[B]	CLA	O2A-CGA-CBA	2.46	119.64	111.91
24	A	407[A]	PHO	CMB-C2B-C3B	2.46	129.29	124.68
23	B	610	CLA	CHB-C4A-NA	2.46	127.92	124.51
23	c	506	CLA	CAA-C2A-C3A	-2.46	106.04	112.78
23	B	605	CLA	C3B-C4B-NB	2.46	112.39	109.21
23	a	405[B]	CLA	C4C-C3C-C2C	-2.46	103.31	106.90
23	D	403	CLA	CBC-CAC-C3C	-2.46	105.65	112.43
23	C	503	CLA	CMC-C2C-C1C	2.46	128.78	125.04
23	B	606	CLA	C4C-C3C-C2C	-2.46	103.31	106.90
23	A	404[A]	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
25	h	101	BCR	C10-C11-C12	-2.46	115.55	123.22
33	C	521	LMG	O1-C1-C2	2.46	112.14	108.30
23	b	607	CLA	CMB-C2B-C3B	2.46	129.27	124.68
23	C	509	CLA	O2A-CGA-CBA	2.46	119.61	111.91
24	a	407[B]	PHO	O2D-CGD-O1D	-2.46	119.04	123.84
24	a	415[B]	PHO	O2D-CGD-O1D	-2.45	119.04	123.84
35	C	517[B]	DGD	O3G-C3G-C2G	-2.45	104.98	110.90
23	B	607	CLA	CHD-C4C-NC	2.45	128.07	124.20
25	C	516	BCR	C32-C1-C6	-2.45	106.32	110.30
23	C	514	CLA	CAC-C3C-C4C	2.45	127.99	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	A	404[A]	CLA	CAA-CBA-CGA	-2.45	106.09	113.25
23	d	403	CLA	CAC-C3C-C4C	2.45	127.99	124.81
23	a	404[B]	CLA	C4-C3-C5	2.45	119.39	115.27
25	Y	101	BCR	C10-C11-C12	-2.45	115.58	123.22
29	D	405[A]	PL9	C40-C39-C41	2.45	119.39	115.27
25	C	516	BCR	C29-C30-C25	2.45	114.25	110.48
29	A	414[B]	PL9	C42-C43-C44	-2.45	121.77	127.66
29	a	413[B]	PL9	C47-C48-C49	-2.45	119.39	127.75
29	D	405[B]	PL9	C20-C19-C21	2.44	119.38	115.27
35	c	517[B]	DGD	O1G-C1A-C2A	2.44	119.56	111.91
23	A	408	CLA	CMA-C3A-C2A	-2.44	103.99	113.83
23	B	601	CLA	CHC-C1C-C2C	-2.44	119.98	126.72
24	a	407[B]	PHO	CMA-C3A-C4A	-2.44	109.04	114.38
24	a	407[B]	PHO	O2A-CGA-O1A	-2.44	117.44	123.59
23	b	605	CLA	C2A-C1A-CHA	-2.44	119.60	123.86
25	D	404	BCR	C37-C22-C21	-2.44	119.51	122.92
23	B	604	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
23	C	507	CLA	O2A-CGA-CBA	2.44	119.55	111.91
25	H	101	BCR	C24-C23-C22	-2.44	122.56	126.23
25	b	618	BCR	C35-C13-C14	-2.44	119.51	122.92
26	f	102	SQD	O8-S-C6	2.43	109.62	105.74
23	B	605	CLA	O2A-CGA-CBA	2.43	119.54	111.91
33	B	621	LMG	C7-O1-C1	-2.43	108.99	113.74
23	C	509	CLA	CMB-C2B-C3B	2.43	129.23	124.68
23	C	505	CLA	C2A-C1A-CHA	-2.43	119.61	123.86
26	f	102	SQD	O47-C7-O49	-2.43	117.82	123.70
23	c	513	CLA	CHD-C4C-NC	2.43	128.04	124.20
33	d	411	LMG	O8-C28-C29	2.43	119.54	111.91
23	C	503	CLA	C4-C3-C5	2.43	119.36	115.27
25	c	515	BCR	C38-C26-C25	-2.43	121.80	124.53
23	A	405[B]	CLA	C2A-C1A-CHA	-2.43	119.61	123.86
25	c	515	BCR	C37-C22-C21	-2.43	119.52	122.92
23	C	507	CLA	CHD-C4C-NC	2.43	128.03	124.20
23	C	508	CLA	C3B-C4B-NB	2.43	112.35	109.21
23	A	405[A]	CLA	CAA-CBA-CGA	2.42	120.34	113.25
23	A	406[B]	CLA	CMA-C3A-C2A	-2.42	104.05	113.83
23	C	507	CLA	C4C-C3C-C2C	-2.42	103.37	106.90
25	B	619	BCR	C3-C4-C5	-2.42	109.75	114.08
23	C	502	CLA	C2A-C1A-CHA	-2.42	119.63	123.86
23	c	512	CLA	CHB-C4A-NA	2.42	127.86	124.51
23	A	406[A]	CLA	C1-C2-C3	-2.42	121.86	126.04
23	b	610	CLA	CAC-C3C-C4C	2.42	127.95	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	602	CLA	CMA-C3A-C4A	-2.42	105.28	111.77
23	B	605	CLA	CHC-C1C-C2C	-2.42	120.04	126.72
29	D	405[A]	PL9	C7-C8-C9	-2.41	122.77	126.79
23	c	504	CLA	C2A-C1A-CHA	-2.41	119.64	123.86
32	A	419[A]	LHG	O7-C7-O9	-2.41	117.87	123.70
35	c	516[B]	DGD	C3G-C2G-C1G	-2.41	106.08	111.79
25	k	101	BCR	C15-C14-C13	-2.41	123.87	127.31
23	c	507	CLA	CMB-C2B-C1B	2.41	132.17	128.46
23	B	603	CLA	CMA-C3A-C2A	-2.41	104.11	113.83
23	B	612	CLA	C1-C2-C3	-2.41	121.88	126.04
23	C	510	CLA	C4-C3-C5	2.41	119.32	115.27
23	b	611	CLA	C7-C6-C5	-2.41	106.82	113.36
25	B	619	BCR	C21-C20-C19	-2.41	115.70	123.22
24	A	407[A]	PHO	CMA-C3A-C4A	-2.41	109.11	114.38
23	c	512	CLA	CMC-C2C-C1C	2.41	128.70	125.04
29	D	405[B]	PL9	C37-C38-C39	-2.40	121.87	127.66
23	c	504	CLA	CMB-C2B-C3B	2.40	129.18	124.68
25	C	516	BCR	C11-C10-C9	-2.40	123.88	127.31
23	a	406[B]	CLA	O2A-CGA-CBA	2.40	119.45	111.91
25	Y	101	BCR	C28-C27-C26	-2.40	109.79	114.08
32	b	629[A]	LHG	O8-C23-O10	-2.40	117.53	123.59
23	B	615	CLA	C11-C10-C8	-2.40	108.16	115.92
35	H	102	DGD	C3B-C2B-C1B	-2.40	104.89	113.62
23	c	507	CLA	CHC-C1C-C2C	-2.40	120.08	126.72
23	B	616	CLA	CHD-C4C-NC	2.40	127.98	124.20
23	A	406[B]	CLA	C4-C3-C5	2.40	119.31	115.27
32	d	407[A]	LHG	O8-C23-O10	-2.40	117.54	123.59
29	d	405[A]	PL9	C17-C18-C19	-2.40	121.89	127.66
25	c	514	BCR	C36-C18-C19	2.40	121.86	118.08
29	d	405[B]	PL9	C45-C44-C46	2.40	119.30	115.27
26	A	412	SQD	O48-C23-O10	-2.40	117.55	123.59
23	A	405[B]	CLA	OBD-CAD-C3D	-2.39	122.76	128.52
25	c	514	BCR	C20-C21-C22	-2.39	123.89	127.31
23	b	609	CLA	O2A-CGA-O1A	-2.39	117.55	123.59
29	d	405[A]	PL9	C7-C8-C9	-2.39	122.81	126.79
23	b	611	CLA	CAC-C3C-C4C	2.39	127.92	124.81
25	b	619	BCR	C29-C30-C25	2.39	114.17	110.48
25	c	515	BCR	C37-C22-C23	2.39	121.85	118.08
23	a	406[B]	CLA	C2A-C1A-CHA	-2.39	119.68	123.86
23	b	614	CLA	CAA-C2A-C3A	-2.39	106.23	112.78
25	c	515	BCR	C39-C30-C25	-2.39	106.42	110.30
25	Y	101	BCR	C38-C26-C25	-2.39	121.85	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	507	CLA	CGD-CBD-CAD	-2.39	103.00	110.73
23	D	402[B]	CLA	O2A-CGA-O1A	-2.38	117.57	123.59
23	B	610	CLA	CHD-C4C-NC	2.38	127.96	124.20
23	D	402[A]	CLA	CMC-C2C-C1C	2.38	128.67	125.04
23	a	404[A]	CLA	CMA-C3A-C2A	-2.38	104.22	113.83
25	t	102	BCR	C1-C6-C7	2.38	122.52	115.78
29	a	413[A]	PL9	C20-C19-C21	2.38	119.28	115.27
32	D	407[B]	LHG	O8-C23-O10	-2.38	117.58	123.59
23	A	408	CLA	O2A-CGA-O1A	-2.38	117.59	123.59
23	b	608	CLA	C2A-C1A-CHA	-2.38	119.70	123.86
23	c	509	CLA	CMC-C2C-C1C	2.38	128.66	125.04
29	D	405[A]	PL9	C36-C37-C38	-2.38	104.07	111.88
23	B	601	CLA	CMB-C2B-C3B	2.38	129.12	124.68
25	t	102	BCR	C29-C28-C27	-2.38	106.07	111.38
23	B	613	CLA	CHD-C4C-NC	2.37	127.94	124.20
23	b	608	CLA	CMA-C3A-C4A	-2.37	105.39	111.77
23	B	616	CLA	CBC-CAC-C3C	-2.37	105.89	112.43
24	a	415[B]	PHO	C4A-C3A-C2A	-2.37	100.58	102.84
23	c	502	CLA	O2A-CGA-O1A	-2.37	117.61	123.59
25	b	617	BCR	C16-C17-C18	-2.37	123.92	127.31
23	c	512	CLA	O2A-CGA-O1A	-2.37	117.61	123.59
23	A	406[A]	CLA	CAC-C3C-C4C	2.37	127.89	124.81
23	a	404[A]	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
26	F	103	SQD	O5-C1-O6	2.37	115.59	109.97
33	c	520	LMG	O8-C28-O10	-2.37	117.61	123.59
25	Y	101	BCR	C40-C30-C25	-2.37	106.46	110.30
23	B	608	CLA	C1-C2-C3	-2.37	121.95	126.04
25	B	619	BCR	C24-C23-C22	-2.37	122.66	126.23
24	a	415[B]	PHO	O2A-CGA-CBA	2.37	119.34	111.91
23	C	513	CLA	C2A-C1A-CHA	-2.37	119.72	123.86
25	c	514	BCR	C34-C9-C10	-2.37	119.61	122.92
25	b	619	BCR	C39-C30-C25	-2.37	106.46	110.30
31	b	621	LMT	C2'-C3'-C4'	2.37	115.08	109.68
32	d	406[B]	LHG	O8-C23-C24	2.36	119.33	111.91
23	c	509	CLA	C4-C3-C2	-2.36	117.61	123.68
29	D	405[B]	PL9	C12-C13-C14	-2.36	121.97	127.66
24	a	415[A]	PHO	C1A-C2A-C3A	-2.36	100.59	102.84
23	C	513	CLA	CHC-C1C-C2C	-2.36	120.19	126.72
25	H	101	BCR	C36-C18-C17	-2.36	119.61	122.92
23	d	403	CLA	C1-O2A-CGA	2.36	122.64	116.44
23	C	513	CLA	O2D-CGD-O1D	-2.36	119.22	123.84
26	A	410[B]	SQD	O8-S-C6	2.36	109.50	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	c	516[A]	DGD	C3G-C2G-C1G	-2.36	106.21	111.79
32	L	101[B]	LHG	O8-C23-O10	-2.36	117.64	123.59
25	b	618	BCR	C8-C7-C6	-2.36	120.58	127.20
29	d	405[A]	PL9	C12-C13-C14	-2.36	121.99	127.66
23	c	505	CLA	CHD-C4C-NC	2.35	127.91	124.20
29	a	413[B]	PL9	C40-C39-C41	2.35	119.23	115.27
23	b	607	CLA	C1-O2A-CGA	2.35	122.62	116.44
23	c	506	CLA	O2A-CGA-CBA	2.35	119.29	111.91
23	c	507	CLA	CBC-CAC-C3C	-2.35	105.95	112.43
23	c	502	CLA	CMB-C2B-C3B	2.35	129.08	124.68
23	C	513	CLA	C3B-C4B-NB	2.35	112.25	109.21
23	a	406[A]	CLA	C1-C2-C3	-2.35	121.98	126.04
23	B	601	CLA	CAC-C3C-C4C	2.35	127.86	124.81
23	B	616	CLA	CMC-C2C-C1C	2.35	128.62	125.04
29	A	414[A]	PL9	C45-C44-C46	2.35	119.22	115.27
29	a	413[B]	PL9	C45-C44-C46	2.35	119.22	115.27
38	F	102	HEM	CHA-C4D-ND	2.35	127.28	124.38
24	a	407[B]	PHO	C1-C2-C3	-2.35	121.98	126.04
23	B	610	CLA	O1D-CGD-CBD	-2.35	119.68	124.48
23	A	404[B]	CLA	CMC-C2C-C1C	2.35	128.61	125.04
23	A	406[A]	CLA	CMA-C3A-C2A	-2.34	104.38	113.83
23	B	603	CLA	C5-C3-C2	-2.34	116.38	121.12
23	B	608	CLA	CBC-CAC-C3C	-2.34	105.97	112.43
25	C	516	BCR	C3-C4-C5	-2.34	109.90	114.08
25	y	101	BCR	C15-C14-C13	-2.34	123.97	127.31
23	B	608	CLA	CHD-C4C-NC	2.34	127.89	124.20
23	b	612	CLA	CHD-C4C-NC	2.34	127.89	124.20
31	A	420	LMT	O5'-C5'-C4'	2.34	114.68	109.75
24	A	416[B]	PHO	O2A-CGA-CBA	2.34	119.25	111.91
29	A	414[A]	PL9	C42-C43-C44	-2.34	122.03	127.66
23	c	510	CLA	C4-C3-C2	-2.34	117.68	123.68
32	D	406[B]	LHG	O8-C23-C24	2.34	119.24	111.91
26	a	410[B]	SQD	O48-C23-C24	2.34	119.24	111.91
23	c	513	CLA	C1-C2-C3	-2.34	122.00	126.04
23	B	608	CLA	C11-C10-C8	-2.34	108.37	115.92
23	b	608	CLA	C11-C10-C8	-2.33	108.37	115.92
32	d	406[A]	LHG	C6-C5-C4	-2.33	106.27	111.79
29	d	405[A]	PL9	C20-C19-C21	2.33	119.20	115.27
23	b	613	CLA	CMC-C2C-C1C	2.33	128.59	125.04
23	b	614	CLA	O2A-CGA-CBA	2.33	119.23	111.91
23	b	601	CLA	O2A-CGA-CBA	2.33	119.23	111.91
23	b	604	CLA	O2A-CGA-CBA	2.33	119.23	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	C	513	CLA	CMC-C2C-C1C	2.33	128.59	125.04
23	A	405[B]	CLA	CAC-C3C-C4C	2.33	127.83	124.81
23	c	508	CLA	CMC-C2C-C1C	2.33	128.59	125.04
23	b	612	CLA	CAA-C2A-C3A	-2.33	106.40	112.78
23	C	505	CLA	C4C-C3C-C2C	-2.33	103.50	106.90
23	A	408	CLA	CHB-C4A-NA	2.32	127.73	124.51
26	b	620	SQD	O9-S-C6	2.32	109.70	106.94
25	T	101	BCR	C1-C6-C7	2.32	122.35	115.78
23	B	609	CLA	C16-C15-C13	-2.32	108.41	115.92
23	A	405[B]	CLA	O2A-CGA-O1A	-2.32	117.74	123.59
23	b	615	CLA	CHA-C1A-NA	-2.32	121.09	126.40
35	h	102	DGD	O4D-C4D-C3D	-2.32	104.99	110.35
23	A	404[B]	CLA	C4-C3-C5	2.32	119.17	115.27
29	A	414[B]	PL9	C7-C3-C4	2.32	118.76	116.88
33	C	521	LMG	C9-C8-C7	-2.32	106.31	111.79
25	B	618	BCR	C37-C22-C21	-2.32	119.68	122.92
26	b	620	SQD	O47-C7-O49	-2.31	118.11	123.70
23	C	508	CLA	O2A-CGA-O1A	-2.31	117.75	123.59
23	A	408	CLA	CMB-C2B-C3B	2.31	129.00	124.68
38	F	102	HEM	O2D-CGD-CBD	2.31	121.46	114.03
26	b	620	SQD	O48-C23-C24	2.31	119.16	111.91
23	C	504	CLA	C3B-C4B-NB	2.31	112.20	109.21
24	A	407[B]	PHO	CMA-C3A-C4A	-2.31	109.31	114.38
23	c	503	CLA	OBD-CAD-C3D	-2.31	122.96	128.52
23	a	405[A]	CLA	CMC-C2C-C1C	2.31	128.56	125.04
23	c	513	CLA	C4-C3-C5	2.31	119.16	115.27
23	C	504	CLA	C2A-C1A-CHA	-2.31	119.82	123.86
23	B	605	CLA	C2A-C1A-CHA	-2.31	119.82	123.86
26	a	411	SQD	C1-O5-C5	2.31	118.22	113.69
35	C	518[A]	DGD	C2G-O2G-C1B	-2.31	112.11	117.79
23	b	608	CLA	CHB-C4A-NA	2.31	127.70	124.51
25	b	618	BCR	C37-C22-C23	2.31	121.71	118.08
23	c	506	CLA	C4-C3-C5	2.31	119.15	115.27
31	m	103	LMT	C3B-C4B-C5B	-2.31	106.13	110.24
25	d	404	BCR	C16-C15-C14	-2.30	118.75	123.47
23	B	603	CLA	CMC-C2C-C1C	2.30	128.55	125.04
35	C	517[A]	DGD	O6E-C5E-C4E	2.30	113.88	109.69
25	b	618	BCR	C33-C5-C6	-2.30	121.94	124.53
25	A	409	BCR	C8-C7-C6	-2.30	120.73	127.20
23	b	604	CLA	C4C-C3C-C2C	-2.30	103.54	106.90
23	a	405[B]	CLA	C2A-C1A-CHA	-2.30	119.84	123.86
26	f	102	SQD	O48-C23-O10	-2.30	117.79	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	k	101	BCR	C10-C11-C12	-2.30	116.04	123.22
23	b	601	CLA	CMC-C2C-C1C	2.30	128.54	125.04
23	C	513	CLA	CMA-C3A-C4A	-2.30	105.60	111.77
23	B	605	CLA	CAC-C3C-C2C	2.30	131.46	127.53
25	Y	101	BCR	C36-C18-C19	2.30	121.69	118.08
26	a	410[A]	SQD	O48-C23-C24	2.30	119.11	111.91
23	a	404[B]	CLA	O2A-CGA-O1A	-2.29	117.80	123.59
35	C	517[B]	DGD	C3G-C2G-C1G	-2.29	106.36	111.79
23	c	511	CLA	CAC-C3C-C4C	2.29	127.79	124.81
26	f	102	SQD	O5-C5-C4	2.29	113.86	109.69
31	m	103	LMT	C1'-O5'-C5'	-2.29	109.19	113.69
23	C	511	CLA	C4C-C3C-C2C	-2.29	103.56	106.90
25	c	514	BCR	C35-C13-C14	-2.29	119.71	122.92
23	C	502	CLA	O2A-CGA-CBA	2.29	119.10	111.91
23	c	512	CLA	CBA-CAA-C2A	-2.29	107.10	113.86
23	b	609	CLA	C7-C6-C5	-2.29	107.14	113.36
29	D	405[B]	PL9	C47-C48-C49	-2.29	119.93	127.75
23	B	605	CLA	OBD-CAD-C3D	-2.29	123.01	128.52
35	C	517[A]	DGD	C3G-C2G-C1G	-2.29	106.38	111.79
23	c	502	CLA	C2A-C1A-CHA	-2.29	119.86	123.86
23	c	510	CLA	O2D-CGD-O1D	-2.29	119.37	123.84
23	B	602	CLA	CHB-C4A-NA	2.28	127.67	124.51
25	b	619	BCR	C16-C15-C14	-2.28	118.80	123.47
23	d	403	CLA	C2A-C1A-CHA	-2.28	119.86	123.86
23	a	408	CLA	CHC-C1C-C2C	-2.28	120.41	126.72
23	C	511	CLA	CMD-C2D-C3D	-2.28	122.36	127.61
29	d	405[B]	PL9	C15-C14-C16	2.28	119.11	115.27
33	m	101	LMG	O7-C10-O9	-2.28	118.19	123.70
23	b	609	CLA	CMA-C3A-C4A	-2.28	105.64	111.77
23	C	514	CLA	C4-C3-C5	2.28	119.11	115.27
26	B	620	SQD	C44-O6-C1	-2.28	109.29	113.74
23	b	602	CLA	CMA-C3A-C2A	-2.28	104.64	113.83
26	F	103	SQD	O5-C1-C2	-2.28	105.53	110.35
23	D	402[A]	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
29	d	405[A]	PL9	C51-C49-C50	2.28	119.63	114.60
31	F	101	LMT	C3B-C4B-C5B	-2.28	106.18	110.24
31	B	631	LMT	O5'-C5'-C4'	2.28	114.55	109.75
24	A	416[B]	PHO	C6-C5-C3	-2.28	107.49	113.45
23	C	509	CLA	CMC-C2C-C1C	2.28	128.50	125.04
29	d	405[B]	PL9	C36-C37-C38	-2.28	104.40	111.88
23	b	616	CLA	C2A-C1A-CHA	-2.27	119.88	123.86
25	a	409	BCR	C7-C8-C9	-2.27	122.80	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	601	CLA	CMC-C2C-C1C	2.27	128.50	125.04
24	a	415[A]	PHO	O2A-CGA-CBA	2.27	119.03	111.91
23	D	403	CLA	O2A-CGA-CBA	2.27	119.03	111.91
23	c	507	CLA	C1-C2-C3	-2.27	122.12	126.04
29	A	414[A]	PL9	C35-C34-C33	-2.27	117.86	123.68
23	a	404[A]	CLA	C7-C6-C5	-2.27	107.20	113.36
23	A	404[B]	CLA	O2D-CGD-O1D	-2.26	119.41	123.84
24	a	407[B]	PHO	C4A-C3A-C2A	-2.26	100.68	102.84
23	c	504	CLA	CMC-C2C-C1C	2.26	128.48	125.04
29	D	405[B]	PL9	C36-C37-C38	-2.26	104.45	111.88
35	C	518[A]	DGD	O2G-C1B-O1B	-2.26	118.24	123.70
23	D	402[B]	CLA	CBC-CAC-C3C	-2.26	106.20	112.43
24	a	415[B]	PHO	CBA-CAA-C2A	-2.26	107.21	113.81
23	A	408	CLA	C2A-C1A-CHA	-2.26	119.91	123.86
23	a	404[B]	CLA	O2D-CGD-O1D	-2.26	119.42	123.84
25	D	404	BCR	C3-C4-C5	-2.26	110.04	114.08
23	b	607	CLA	C2A-C1A-CHA	-2.26	119.91	123.86
23	B	611	CLA	CMA-C3A-C2A	-2.26	104.72	113.83
23	D	402[A]	CLA	CMB-C2B-C3B	2.26	128.90	124.68
29	d	405[B]	PL9	C7-C3-C2	-2.26	120.33	123.30
23	B	602	CLA	C1-O2A-CGA	2.26	122.36	116.44
23	A	408	CLA	CBC-CAC-C3C	-2.25	106.22	112.43
23	c	508	CLA	C2A-C1A-CHA	-2.25	119.92	123.86
35	H	102	DGD	C1E-O6E-C5E	-2.25	109.27	113.69
23	b	610	CLA	CHB-C4A-NA	2.25	127.63	124.51
24	A	407[A]	PHO	C4-C3-C5	2.25	119.06	115.27
23	D	402[A]	CLA	CED-O2D-CGD	2.25	121.03	115.94
24	a	407[A]	PHO	CMA-C3A-C4A	-2.25	109.45	114.38
23	B	615	CLA	CMB-C2B-C1B	2.25	131.92	128.46
23	a	405[A]	CLA	C2A-C1A-CHA	-2.25	119.92	123.86
25	k	101	BCR	C36-C18-C19	2.25	121.62	118.08
25	a	409	BCR	C33-C5-C6	-2.25	122.00	124.53
23	c	510	CLA	C2A-C1A-CHA	-2.25	119.93	123.86
24	A	407[B]	PHO	O2A-CGA-O1A	-2.25	117.92	123.59
35	c	516[A]	DGD	O3G-C3G-C2G	-2.24	105.48	110.90
23	c	504	CLA	O2D-CGD-O1D	-2.24	119.45	123.84
29	d	405[A]	PL9	C47-C48-C49	-2.24	120.08	127.75
32	d	406[B]	LHG	C5-O7-C7	-2.24	112.27	117.79
31	B	629	LMT	O5'-C5'-C4'	2.24	114.48	109.75
26	b	620	SQD	C44-O6-C1	-2.24	109.36	113.74
23	C	504	CLA	O2D-CGD-O1D	-2.24	119.46	123.84
25	C	516	BCR	C38-C26-C25	-2.24	122.01	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	c	517[B]	DGD	O2G-C1B-O1B	-2.24	118.29	123.70
23	b	615	CLA	CAC-C3C-C4C	2.24	127.71	124.81
26	A	412	SQD	C1-C2-C3	-2.24	105.34	110.00
27	B	623	GOL	C3-C2-C1	-2.24	103.01	111.70
23	A	406[B]	CLA	CAC-C3C-C4C	2.24	127.71	124.81
23	c	503	CLA	O2A-CGA-CBA	2.23	118.92	111.91
23	C	508	CLA	CAC-C3C-C4C	2.23	127.71	124.81
23	B	613	CLA	C2A-C1A-CHA	-2.23	119.95	123.86
23	B	609	CLA	CAC-C3C-C4C	2.23	127.71	124.81
23	B	615	CLA	O2A-CGA-CBA	2.23	118.91	111.91
25	d	404	BCR	C3-C4-C5	-2.23	110.09	114.08
29	a	413[A]	PL9	C35-C34-C33	-2.23	117.95	123.68
25	Y	101	BCR	C11-C10-C9	-2.23	124.13	127.31
29	A	414[A]	PL9	C25-C24-C26	2.23	119.02	115.27
29	d	405[B]	PL9	C20-C19-C21	2.23	119.02	115.27
23	a	406[B]	CLA	CAC-C3C-C4C	2.23	127.70	124.81
23	B	612	CLA	C2A-C1A-CHA	-2.23	119.97	123.86
23	B	611	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
23	C	503	CLA	CAC-C3C-C4C	2.23	127.70	124.81
23	c	511	CLA	C2A-C1A-CHA	-2.23	119.97	123.86
35	h	102	DGD	O3G-C1D-C2D	2.23	111.78	108.30
38	F	102	HEM	CHD-C1D-C2D	-2.23	121.50	124.98
25	A	409	BCR	C33-C5-C6	-2.23	122.03	124.53
23	A	405[B]	CLA	CMC-C2C-C1C	2.23	128.43	125.04
33	c	519	LMG	O8-C28-O10	-2.23	117.98	123.59
29	A	414[A]	PL9	C12-C13-C14	-2.23	122.30	127.66
25	h	101	BCR	C39-C30-C25	-2.22	106.69	110.30
23	C	509	CLA	CED-O2D-CGD	2.22	120.97	115.94
24	A	416[A]	PHO	CED-O2D-CGD	2.22	120.97	115.94
29	A	414[A]	PL9	C53-C6-C1	2.22	119.54	114.99
23	A	405[B]	CLA	CAA-CBA-CGA	2.22	119.75	113.25
26	A	410[A]	SQD	O9-S-O7	-2.22	106.25	113.95
34	b	622	HTG	C6-C5-C4	-2.22	107.80	113.00
23	A	404[A]	CLA	CHD-C4C-NC	2.22	127.71	124.20
25	K	102	BCR	C29-C30-C25	2.22	113.90	110.48
29	A	414[B]	PL9	C47-C48-C49	-2.22	120.15	127.75
23	c	502	CLA	C4C-C3C-C2C	-2.22	103.66	106.90
24	a	415[A]	PHO	O1D-CGD-CBD	-2.22	121.04	124.74
23	B	611	CLA	OBD-CAD-C3D	-2.22	123.17	128.52
25	b	617	BCR	C20-C21-C22	-2.22	124.14	127.31
23	A	405[A]	CLA	C4C-C3C-C2C	-2.22	103.66	106.90
23	C	505	CLA	C4-C3-C5	2.22	119.01	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	b	616	CLA	C4-C3-C5	2.22	119.01	115.27
25	B	618	BCR	C37-C22-C23	2.22	121.57	118.08
23	a	405[B]	CLA	O2A-CGA-O1A	-2.22	117.99	123.59
32	d	406[A]	LHG	O8-C23-O10	-2.22	117.99	123.59
23	b	602	CLA	CHC-C1C-C2C	-2.22	120.58	126.72
23	C	511	CLA	CAC-C3C-C4C	2.22	127.69	124.81
23	B	601	CLA	CHB-C4A-NA	2.22	127.58	124.51
23	B	608	CLA	O2A-CGA-CBA	2.22	118.86	111.91
23	b	615	CLA	O2D-CGD-O1D	-2.22	119.51	123.84
23	D	402[A]	CLA	CMA-C3A-C4A	-2.21	105.82	111.77
23	C	513	CLA	CAC-C3C-C2C	2.21	131.31	127.53
31	B	631	LMT	O1'-C1'-C2'	2.21	111.76	108.30
33	z	101	LMG	C8-O7-C10	-2.21	112.35	117.79
25	D	404	BCR	C39-C30-C25	-2.21	106.72	110.30
32	E	101[A]	LHG	O7-C7-O9	-2.21	118.37	123.70
23	B	614	CLA	OBD-CAD-C3D	-2.20	123.22	128.52
26	A	410[B]	SQD	O9-S-O7	-2.20	106.33	113.95
35	C	517[A]	DGD	O3G-C3G-C2G	-2.20	105.59	110.90
26	F	103	SQD	C46-C45-C44	-2.20	106.58	111.79
29	a	413[B]	PL9	C51-C49-C50	2.20	119.46	114.60
26	A	412	SQD	O6-C44-C45	-2.20	105.59	110.90
35	c	517[B]	DGD	C1D-O6D-C5D	2.20	118.00	113.69
23	B	615	CLA	O2A-CGA-O1A	-2.20	118.04	123.59
26	a	410[A]	SQD	O9-S-O7	-2.20	106.34	113.95
38	f	101	HEM	C3C-C4C-NC	-2.20	106.79	110.94
23	b	608	CLA	CAA-C2A-C3A	-2.20	106.76	112.78
25	D	404	BCR	C30-C25-C24	2.20	121.99	115.78
23	B	616	CLA	O2A-CGA-O1A	-2.20	118.05	123.59
29	A	414[B]	PL9	C35-C34-C33	-2.20	118.05	123.68
38	f	101	HEM	CHA-C4D-C3D	-2.20	121.21	125.33
25	y	101	BCR	C1-C6-C7	2.19	121.99	115.78
23	B	612	CLA	CHD-C4C-NC	2.19	127.66	124.20
35	c	517[A]	DGD	O1G-C1A-O1A	-2.19	118.06	123.59
23	b	606	CLA	C2A-C1A-CHA	-2.19	120.03	123.86
25	k	101	BCR	C11-C10-C9	-2.19	124.18	127.31
26	F	103	SQD	O8-S-O7	-2.19	105.92	111.27
31	t	101	LMT	C1-O1'-C1'	2.19	117.47	113.84
24	a	415[A]	PHO	C4-C3-C2	-2.19	118.07	123.68
29	A	414[B]	PL9	C10-C9-C8	-2.19	118.07	123.68
23	B	601	CLA	C2A-C1A-CHA	-2.19	120.04	123.86
33	d	411	LMG	O7-C10-O9	-2.18	118.42	123.70
25	B	618	BCR	C36-C18-C17	-2.18	119.86	122.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	D	402[B]	CLA	CHD-C4C-NC	2.18	127.64	124.20
24	a	415[B]	PHO	C1A-C2A-C3A	-2.18	100.76	102.84
23	B	605	CLA	CMB-C2B-C1B	2.18	131.82	128.46
33	B	621	LMG	C8-O7-C10	-2.18	112.42	117.79
26	f	102	SQD	O6-C1-C2	2.18	111.71	108.30
23	C	506	CLA	CHA-C1A-NA	-2.18	121.40	126.40
26	a	411	SQD	O5-C5-C4	2.18	113.65	109.69
25	d	404	BCR	C29-C28-C27	-2.18	106.51	111.38
26	f	102	SQD	O7-S-C6	2.18	109.53	106.94
38	F	102	HEM	C4D-ND-C1D	2.18	107.32	105.07
23	B	614	CLA	CMA-C3A-C2A	-2.18	105.04	113.83
23	b	611	CLA	O2A-CGA-CBA	2.18	118.74	111.91
23	b	607	CLA	CAA-CBA-CGA	2.18	119.61	113.25
29	d	405[B]	PL9	C35-C34-C36	2.18	118.93	115.27
25	Y	101	BCR	C34-C9-C8	2.18	121.50	118.08
26	F	103	SQD	O48-C23-O10	-2.17	118.11	123.59
24	A	407[B]	PHO	C4-C3-C5	2.17	118.93	115.27
23	d	402[A]	CLA	CMB-C2B-C3B	2.17	128.74	124.68
23	a	406[A]	CLA	C4-C3-C5	2.17	118.92	115.27
23	A	406[B]	CLA	CHB-C4A-NA	2.17	127.52	124.51
23	c	513	CLA	CMB-C2B-C3B	2.17	128.74	124.68
23	b	613	CLA	CAC-C3C-C4C	2.17	127.63	124.81
33	c	519	LMG	C8-O7-C10	-2.17	112.45	117.79
32	A	419[A]	LHG	O4-P-O5	2.17	122.96	112.24
25	c	514	BCR	C29-C30-C25	2.17	113.82	110.48
23	B	613	CLA	CMA-C3A-C4A	-2.17	105.95	111.77
23	B	608	CLA	C2A-C1A-CHA	-2.17	120.07	123.86
23	C	512	CLA	O2A-CGA-CBA	2.17	118.71	111.91
23	B	613	CLA	C4-C3-C2	-2.16	118.12	123.68
25	C	515	BCR	C40-C30-C25	-2.16	106.79	110.30
29	a	413[A]	PL9	C45-C44-C46	2.16	118.91	115.27
33	d	411	LMG	C7-O1-C1	-2.16	109.51	113.74
23	b	615	CLA	CMC-C2C-C1C	2.16	128.33	125.04
25	t	102	BCR	C35-C13-C12	2.16	121.49	118.08
23	C	509	CLA	CHD-C4C-NC	2.16	127.61	124.20
23	b	608	CLA	C11-C12-C13	-2.16	108.93	115.92
23	B	612	CLA	C7-C6-C5	-2.16	107.49	113.36
23	b	601	CLA	CAC-C3C-C4C	2.16	127.61	124.81
23	a	406[B]	CLA	CMB-C2B-C3B	2.16	128.72	124.68
25	d	404	BCR	C34-C9-C10	-2.16	119.90	122.92
23	A	405[B]	CLA	C1-C2-C3	-2.16	122.31	126.04
38	F	102	HEM	O2D-CGD-O1D	-2.16	117.92	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	B	610	CLA	C1-C2-C3	-2.16	122.31	126.04
23	A	405[A]	CLA	O2A-CGA-CBA	2.16	118.68	111.91
24	a	407[A]	PHO	O2D-CGD-O1D	-2.16	119.62	123.84
25	A	409	BCR	C28-C27-C26	-2.16	110.22	114.08
38	F	102	HEM	C3C-C4C-NC	-2.16	106.87	110.94
25	b	619	BCR	C7-C6-C5	2.16	126.69	121.46
32	L	101[B]	LHG	C5-O7-C7	-2.15	112.49	117.79
23	b	610	CLA	C4-C3-C2	-2.15	118.15	123.68
23	a	405[B]	CLA	CMC-C2C-C1C	2.15	128.32	125.04
26	a	411	SQD	O47-C7-O49	-2.15	118.50	123.70
23	C	513	CLA	C4-C3-C2	-2.15	118.16	123.68
31	m	103	LMT	O5B-C5B-C6B	2.15	111.78	106.44
29	D	405[A]	PL9	C12-C13-C14	-2.15	122.48	127.66
24	A	407[B]	PHO	C4A-C3A-C2A	-2.15	100.79	102.84
23	c	501	CLA	C4-C3-C5	2.15	118.89	115.27
26	f	102	SQD	C44-O6-C1	-2.15	109.54	113.74
32	d	413[A]	LHG	O7-C7-O9	-2.15	118.51	123.70
34	b	625	HTG	O5-C1-S1	-2.15	104.69	109.82
33	Z	101	LMG	C3-C4-C5	2.15	114.07	110.24
35	C	517[B]	DGD	O1G-C1A-C2A	2.15	118.65	111.91
23	b	606	CLA	O2A-CGA-CBA	2.15	118.65	111.91
23	c	506	CLA	CAA-CBA-CGA	2.15	119.53	113.25
25	k	101	BCR	C16-C17-C18	-2.15	124.25	127.31
23	b	614	CLA	CED-O2D-CGD	2.15	120.79	115.94
23	C	513	CLA	O2A-CGA-O1A	-2.15	118.18	123.59
29	A	414[B]	PL9	C25-C24-C26	2.14	118.88	115.27
23	c	507	CLA	C7-C6-C5	-2.14	107.54	113.36
23	C	507	CLA	O2A-CGA-O1A	-2.14	118.19	123.59
23	b	606	CLA	CBC-CAC-C3C	-2.14	106.53	112.43
29	d	405[A]	PL9	C45-C44-C46	2.14	118.87	115.27
23	D	402[A]	CLA	OBD-CAD-C3D	-2.14	123.37	128.52
23	b	602	CLA	C4-C3-C5	2.14	118.87	115.27
23	c	509	CLA	CMB-C2B-C3B	2.14	128.68	124.68
23	b	601	CLA	O1D-CGD-CBD	-2.14	120.11	124.48
23	c	511	CLA	C4-C3-C2	-2.14	118.20	123.68
23	b	613	CLA	C16-C15-C13	-2.14	109.01	115.92
23	d	403	CLA	CMA-C3A-C2A	-2.13	105.22	113.83
23	c	512	CLA	CHA-C1A-NA	-2.13	121.51	126.40
25	k	101	BCR	C3-C4-C5	-2.13	110.27	114.08
24	a	407[B]	PHO	CBA-CAA-C2A	-2.13	107.58	113.81
25	c	514	BCR	C38-C26-C25	-2.13	122.13	124.53
31	F	101	LMT	C2'-C3'-C4'	2.13	114.55	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	V	201	HEC	CAD-CBD-CGD	-2.13	107.78	113.76
23	b	608	CLA	C4-C3-C5	2.13	118.86	115.27
23	b	613	CLA	C4-C3-C5	2.13	118.86	115.27
35	c	516[A]	DGD	O6D-C1D-O3G	-2.13	104.93	109.97
23	c	505	CLA	CMA-C3A-C4A	-2.13	106.05	111.77
23	A	406[A]	CLA	CHB-C4A-NA	2.13	127.46	124.51
35	C	517[A]	DGD	O5D-C6D-C5D	-2.13	105.11	109.05
23	b	613	CLA	C2A-C1A-CHA	-2.13	120.14	123.86
23	B	607	CLA	C6-C7-C8	-2.13	109.04	115.92
32	d	406[A]	LHG	O8-C23-C24	2.13	118.59	111.91
25	Y	101	BCR	C3-C4-C5	-2.13	110.28	114.08
33	B	621	LMG	C12-C11-C10	-2.13	105.89	113.62
25	C	516	BCR	C33-C5-C6	-2.13	122.14	124.53
35	C	517[B]	DGD	O1G-C1A-O1A	-2.13	118.22	123.59
23	a	406[A]	CLA	CBC-CAC-C3C	-2.12	106.57	112.43
23	a	405[B]	CLA	C1-C2-C3	-2.12	122.37	126.04
29	A	414[B]	PL9	C51-C49-C50	2.12	119.30	114.60
29	a	413[B]	PL9	C12-C13-C14	-2.12	122.55	127.66
23	d	402[A]	CLA	CHD-C4C-NC	2.12	127.55	124.20
23	C	504	CLA	O2A-CGA-CBA	2.12	118.57	111.91
32	d	413[B]	LHG	O7-C7-O9	-2.12	118.57	123.70
23	B	604	CLA	CHA-C1A-NA	-2.12	121.54	126.40
25	B	619	BCR	C38-C26-C25	-2.12	122.14	124.53
23	b	607	CLA	C11-C10-C8	-2.12	109.06	115.92
25	D	404	BCR	C33-C5-C6	-2.12	122.15	124.53
32	E	101[B]	LHG	O7-C7-O9	-2.12	118.58	123.70
23	A	405[A]	CLA	CHB-C4A-NA	2.12	127.44	124.51
25	d	404	BCR	C38-C26-C27	2.12	117.69	113.62
24	a	407[B]	PHO	C4-C3-C5	2.12	118.84	115.27
23	C	511	CLA	CHB-C4A-NA	2.12	127.44	124.51
23	B	601	CLA	CAA-C2A-C3A	-2.12	106.97	112.78
23	B	614	CLA	CAA-C2A-C3A	-2.12	106.97	112.78
23	c	506	CLA	C2A-C1A-CHA	-2.12	120.15	123.86
23	B	611	CLA	C4-C3-C5	2.12	118.84	115.27
25	a	409	BCR	C15-C16-C17	-2.12	119.13	123.47
23	c	510	CLA	OBD-CAD-C3D	-2.12	123.42	128.52
25	t	102	BCR	C7-C6-C5	-2.12	116.33	121.46
23	B	615	CLA	CHA-C1A-NA	-2.12	121.55	126.40
23	B	609	CLA	C2A-C1A-CHA	-2.12	120.16	123.86
26	b	620	SQD	O5-C1-O6	2.12	114.98	109.97
23	c	509	CLA	C2A-C1A-CHA	-2.11	120.16	123.86
23	c	502	CLA	CAC-C3C-C4C	2.11	127.55	124.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	B	620	SQD	O9-S-O7	-2.11	106.64	113.95
35	c	516[A]	DGD	O1G-C1A-O1A	-2.11	118.26	123.59
23	a	405[A]	CLA	CHB-C4A-NA	2.11	127.43	124.51
23	d	402[A]	CLA	CMA-C3A-C2A	-2.11	105.31	113.83
23	b	609	CLA	O2D-CGD-O1D	-2.11	119.71	123.84
32	d	407[B]	LHG	O8-C23-O10	-2.11	118.27	123.59
23	b	603	CLA	CMB-C2B-C3B	2.11	128.63	124.68
25	K	102	BCR	C39-C30-C25	-2.11	106.88	110.30
32	d	413[B]	LHG	C5-O7-C7	-2.11	112.60	117.79
35	C	518[A]	DGD	O1G-C1A-C2A	2.11	118.53	111.91
25	c	515	BCR	C29-C30-C25	2.11	113.73	110.48
26	a	410[A]	SQD	C3-C4-C5	2.11	114.00	110.24
23	c	504	CLA	CAA-C2A-C3A	-2.11	107.01	112.78
23	b	615	CLA	C11-C12-C13	-2.11	109.11	115.92
23	b	612	CLA	CMB-C2B-C3B	2.11	128.62	124.68
23	B	607	CLA	C11-C10-C8	-2.11	109.11	115.92
25	C	515	BCR	C29-C30-C25	2.11	113.72	110.48
34	b	623	HTG	O5-C5-C6	2.10	111.67	106.44
25	c	514	BCR	C37-C22-C23	2.10	121.39	118.08
23	D	402[B]	CLA	CMC-C2C-C1C	2.10	128.24	125.04
29	d	405[A]	PL9	C31-C32-C33	-2.10	104.97	111.88
23	a	405[A]	CLA	CAC-C3C-C2C	2.10	131.13	127.53
23	b	606	CLA	CAC-C3C-C2C	2.10	131.13	127.53
31	B	627	LMT	O1B-C4'-C5'	-2.10	103.68	109.45
25	T	101	BCR	C7-C6-C5	-2.10	116.37	121.46
23	c	511	CLA	CMA-C3A-C4A	2.10	117.42	111.77
29	a	413[A]	PL9	C51-C49-C50	2.10	119.25	114.60
24	A	416[B]	PHO	CED-O2D-CGD	2.10	120.69	115.94
23	A	404[A]	CLA	C7-C6-C5	-2.10	107.65	113.36
23	b	615	CLA	C2A-C1A-CHA	-2.10	120.19	123.86
23	B	604	CLA	O1D-CGD-CBD	-2.10	120.19	124.48
25	h	101	BCR	C16-C17-C18	-2.10	124.31	127.31
23	B	616	CLA	OBD-CAD-C3D	-2.10	123.47	128.52
26	a	411	SQD	O8-S-C6	2.10	109.08	105.74
23	b	616	CLA	OBD-CAD-C3D	-2.10	123.47	128.52
25	K	102	BCR	C36-C18-C19	2.09	121.38	118.08
23	c	511	CLA	CMB-C2B-C3B	2.09	128.59	124.68
31	M	101	LMT	C3B-C4B-C5B	-2.09	106.51	110.24
29	A	414[A]	PL9	C51-C49-C50	2.09	119.22	114.60
23	B	602	CLA	C16-C15-C13	-2.09	109.16	115.92
25	A	409	BCR	C16-C17-C18	-2.09	124.33	127.31
25	a	409	BCR	C8-C7-C6	-2.09	121.33	127.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	Y	101	BCR	C24-C23-C22	-2.09	123.08	126.23
24	A	407[B]	PHO	O2D-CGD-O1D	-2.09	119.75	123.84
23	b	602	CLA	CHB-C4A-NA	2.09	127.40	124.51
23	B	606	CLA	CMD-C2D-C3D	-2.09	122.81	127.61
23	b	602	CLA	O2A-CGA-CBA	2.09	118.46	111.91
23	c	505	CLA	O2A-CGA-O1A	-2.09	118.33	123.59
23	C	509	CLA	CAA-C2A-C3A	-2.09	107.06	112.78
23	A	405[B]	CLA	O2A-CGA-CBA	2.09	118.45	111.91
23	B	616	CLA	C4-C3-C2	-2.09	118.33	123.68
23	d	403	CLA	CGD-CBD-CAD	-2.09	103.98	110.73
35	c	517[B]	DGD	O1G-C1A-O1A	-2.08	118.33	123.59
23	a	406[A]	CLA	CAC-C3C-C4C	2.08	127.52	124.81
23	a	404[B]	CLA	CMA-C3A-C4A	-2.08	106.17	111.77
25	k	101	BCR	C34-C9-C8	2.08	121.36	118.08
25	k	101	BCR	C20-C21-C22	-2.08	124.34	127.31
24	a	415[B]	PHO	CED-O2D-CGD	2.08	120.64	115.94
26	A	410[B]	SQD	O48-C23-O10	-2.08	118.34	123.59
33	B	621	LMG	O7-C10-O9	-2.08	118.67	123.70
23	C	508	CLA	C6-C7-C8	-2.08	109.19	115.92
23	a	404[B]	CLA	CMA-C3A-C2A	-2.08	105.44	113.83
23	C	505	CLA	CAC-C3C-C4C	2.08	127.51	124.81
26	A	412	SQD	O6-C1-C2	2.08	111.55	108.30
23	B	612	CLA	CMA-C3A-C2A	-2.08	105.44	113.83
29	A	414[A]	PL9	C10-C9-C11	2.08	118.77	115.27
23	C	502	CLA	OBD-CAD-C3D	-2.08	123.52	128.52
23	c	501	CLA	C2A-C1A-CHA	-2.08	120.23	123.86
33	B	621	LMG	O3-C3-C2	-2.07	105.55	110.35
23	D	402[A]	CLA	CBC-CAC-C3C	-2.07	106.71	112.43
34	b	625	HTG	C1-C2-C3	-2.07	106.49	110.59
25	K	102	BCR	C32-C1-C6	-2.07	106.93	110.30
23	b	616	CLA	CAC-C3C-C4C	2.07	127.50	124.81
23	B	605	CLA	CAA-C2A-C3A	-2.07	107.10	112.78
25	Y	101	BCR	C36-C18-C17	-2.07	120.02	122.92
23	C	509	CLA	C6-C7-C8	-2.07	109.22	115.92
29	d	405[B]	PL9	C51-C49-C50	2.07	119.18	114.60
23	B	609	CLA	CHA-C1A-NA	-2.07	121.65	126.40
23	C	513	CLA	O1D-CGD-CBD	-2.07	120.25	124.48
23	a	406[B]	CLA	CHB-C4A-NA	2.07	127.38	124.51
23	a	404[B]	CLA	CMC-C2C-C1C	2.07	128.19	125.04
23	b	613	CLA	OBD-CAD-C3D	-2.07	123.54	128.52
23	b	604	CLA	C6-C5-C3	-2.07	108.03	113.45
29	d	405[A]	PL9	C40-C39-C38	-2.07	118.37	123.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	d	404	BCR	C30-C25-C24	2.07	121.64	115.78
35	C	518[B]	DGD	O2G-C1B-O1B	-2.07	118.70	123.70
33	a	416	LMG	O7-C10-O9	-2.06	118.71	123.70
23	c	512	CLA	CMA-C3A-C4A	-2.06	106.22	111.77
23	b	604	CLA	C4-C3-C2	-2.06	118.39	123.68
23	B	604	CLA	CHB-C4A-NA	2.06	127.36	124.51
23	a	405[B]	CLA	CAC-C3C-C2C	2.06	131.05	127.53
38	F	102	HEM	C4B-C3B-C2B	-2.06	105.48	107.11
31	F	101	LMT	O1'-C1'-C2'	2.06	111.52	108.30
23	C	512	CLA	OBD-CAD-C3D	-2.06	123.56	128.52
23	d	402[A]	CLA	CBC-CAC-C3C	-2.06	106.75	112.43
31	M	101	LMT	O5B-C5B-C6B	2.06	111.56	106.44
23	d	402[B]	CLA	CAA-C2A-C3A	-2.06	107.14	112.78
29	A	414[B]	PL9	C2-C3-C4	2.06	121.63	118.80
29	D	405[A]	PL9	C27-C28-C29	-2.06	122.71	127.66
23	c	504	CLA	CBC-CAC-C3C	-2.06	106.76	112.43
23	b	610	CLA	CMA-C3A-C4A	-2.06	106.25	111.77
23	b	602	CLA	CMB-C2B-C3B	2.06	128.52	124.68
23	b	603	CLA	CAC-C3C-C2C	2.06	131.04	127.53
29	D	405[B]	PL9	C15-C14-C16	2.05	118.73	115.27
25	t	102	BCR	C39-C30-C25	-2.05	106.97	110.30
29	d	405[A]	PL9	O2-C1-C6	-2.05	117.04	120.59
33	C	501	LMG	C12-C11-C10	-2.05	106.16	113.62
26	a	411	SQD	C3-C4-C5	2.05	113.90	110.24
23	b	610	CLA	O2A-C1-C2	2.05	114.02	108.64
23	c	508	CLA	CMA-C3A-C2A	-2.05	105.56	113.83
24	A	416[A]	PHO	O1D-CGD-CBD	-2.05	121.33	124.74
25	A	409	BCR	C11-C10-C9	-2.05	124.39	127.31
23	c	507	CLA	C2A-C1A-CHA	-2.05	120.28	123.86
29	D	405[A]	PL9	C45-C44-C46	2.05	118.72	115.27
23	D	402[B]	CLA	C4-C3-C5	2.05	118.72	115.27
32	L	101[A]	LHG	O4-P-O5	2.05	122.36	112.24
23	B	605	CLA	CHA-C1A-NA	-2.05	121.71	126.40
33	D	411	LMG	C4-C3-C2	-2.05	107.25	110.82
26	b	620	SQD	O7-S-C6	2.05	109.37	106.94
23	A	406[A]	CLA	CBC-CAC-C3C	-2.04	106.79	112.43
33	Z	101	LMG	C9-C8-C7	-2.04	106.96	111.79
23	c	504	CLA	O1D-CGD-CBD	-2.04	120.31	124.48
24	a	415[A]	PHO	O2A-CGA-O1A	-2.04	118.44	123.59
24	a	407[A]	PHO	C1-C2-C3	-2.04	122.51	126.04
23	a	405[A]	CLA	CMB-C2B-C1B	2.04	131.60	128.46
32	b	629[A]	LHG	O7-C7-O9	-2.04	118.77	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	B	617	BCR	C21-C20-C19	-2.04	116.85	123.22
23	B	610	CLA	CMA-C3A-C2A	-2.04	105.60	113.83
23	B	611	CLA	C7-C6-C5	-2.04	107.82	113.36
23	A	404[B]	CLA	CMA-C3A-C2A	-2.04	105.61	113.83
23	c	512	CLA	CAC-C3C-C4C	2.04	127.45	124.81
25	T	101	BCR	C39-C30-C25	-2.04	106.99	110.30
23	A	408	CLA	CMA-C3A-C4A	-2.03	106.31	111.77
23	b	608	CLA	C4C-C3C-C2C	-2.03	103.93	106.90
29	a	413[B]	PL9	C35-C34-C33	-2.03	118.46	123.68
26	a	411	SQD	O48-C23-O10	-2.03	118.46	123.59
24	A	416[B]	PHO	CMA-C3A-C4A	-2.03	109.92	114.38
23	A	408	CLA	C11-C12-C13	-2.03	109.35	115.92
23	c	513	CLA	C1-O2A-CGA	2.03	121.77	116.44
29	D	405[A]	PL9	C47-C48-C49	-2.03	120.81	127.75
29	D	405[A]	PL9	C21-C22-C23	-2.03	105.21	111.88
23	B	605	CLA	C7-C6-C5	-2.03	107.84	113.36
33	z	101	LMG	C7-O1-C1	-2.03	109.77	113.74
31	a	417	LMT	O5B-C1B-C2B	2.03	114.65	110.35
23	B	611	CLA	CAA-C2A-C3A	-2.03	107.23	112.78
23	C	509	CLA	C2A-C1A-CHA	-2.03	120.32	123.86
25	a	409	BCR	C11-C10-C9	-2.02	124.42	127.31
23	b	607	CLA	C6-C7-C8	-2.02	109.38	115.92
23	b	604	CLA	CHA-C1A-NA	-2.02	121.76	126.40
23	c	506	CLA	CMB-C2B-C3B	2.02	128.46	124.68
25	b	617	BCR	C32-C1-C6	-2.02	107.02	110.30
23	b	602	CLA	CAA-CBA-CGA	-2.02	107.34	113.25
35	h	102	DGD	C3B-C2B-C1B	-2.02	106.27	113.62
35	c	516[B]	DGD	O6D-C1D-O3G	-2.02	105.19	109.97
23	c	510	CLA	C11-C10-C8	-2.02	109.39	115.92
23	A	404[B]	CLA	OBD-CAD-C3D	-2.02	123.66	128.52
23	a	406[A]	CLA	CHA-C1A-NA	-2.02	121.77	126.40
23	C	503	CLA	CMB-C2B-C3B	2.02	128.46	124.68
25	b	617	BCR	C16-C15-C14	-2.02	119.34	123.47
26	a	410[A]	SQD	O4-C4-C3	-2.02	105.68	110.35
23	C	508	CLA	CMC-C2C-C1C	2.02	128.11	125.04
33	a	416	LMG	O8-C28-C29	2.02	118.24	111.91
25	B	617	BCR	C29-C30-C25	2.02	113.58	110.48
23	d	403	CLA	CHB-C4A-NA	2.02	127.30	124.51
23	b	601	CLA	CAA-C2A-C3A	-2.02	107.26	112.78
25	K	102	BCR	C11-C10-C9	-2.02	124.43	127.31
23	c	511	CLA	C11-C10-C8	-2.02	109.41	115.92
23	B	607	CLA	O2A-CGA-CBA	2.02	118.23	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	H	102	DGD	O2G-C1B-C2B	2.01	115.84	111.50
23	B	602	CLA	CMB-C2B-C3B	2.01	128.45	124.68
35	c	516[A]	DGD	O1G-C1A-C2A	2.01	118.23	111.91
25	B	618	BCR	C38-C26-C25	-2.01	122.27	124.53
23	C	506	CLA	C4-C3-C2	-2.01	118.52	123.68
23	B	612	CLA	CMA-C3A-C4A	-2.01	106.36	111.77
26	B	620	SQD	C9-C8-C7	-2.01	106.30	113.62
23	a	404[B]	CLA	CAC-C3C-C4C	2.01	127.42	124.81
23	B	608	CLA	C1B-CHB-C4A	-2.01	126.14	130.12
23	C	514	CLA	C1-O2A-CGA	2.01	121.72	116.44
23	C	511	CLA	C4-C3-C2	-2.01	118.52	123.68
23	b	602	CLA	C3B-C4B-NB	2.01	111.81	109.21
23	B	602	CLA	O2A-CGA-CBA	2.01	118.21	111.91
23	c	504	CLA	CMA-C3A-C2A	-2.01	105.72	113.83
25	h	101	BCR	C34-C9-C8	2.01	121.24	118.08
26	A	410[B]	SQD	O6-C44-C45	-2.01	106.05	110.90
25	B	618	BCR	C28-C27-C26	-2.01	110.50	114.08
23	C	506	CLA	C11-C10-C8	-2.00	109.44	115.92
23	B	602	CLA	CMA-C3A-C2A	-2.00	105.74	113.83
24	A	416[A]	PHO	CMB-C2B-C3B	2.00	128.43	124.68
35	C	517[A]	DGD	C4E-C3E-C2E	-2.00	107.33	110.82
31	b	627	LMT	O1'-C1'-C2'	2.00	111.43	108.30
25	a	409	BCR	C34-C9-C10	-2.00	120.12	122.92
23	B	608	CLA	C6-C7-C8	-2.00	109.45	115.92

All (72) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
23	A	404[A]	CLA	ND
23	A	404[B]	CLA	ND
23	A	405[A]	CLA	ND
23	A	405[B]	CLA	ND
23	A	408	CLA	ND
23	B	601	CLA	ND
23	B	602	CLA	ND
23	B	603	CLA	ND
23	B	604	CLA	ND
23	B	605	CLA	ND
23	B	606	CLA	ND
23	B	607	CLA	ND
23	B	609	CLA	ND
23	B	610	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
23	B	611	CLA	ND
23	B	612	CLA	ND
23	B	613	CLA	ND
23	B	614	CLA	ND
23	B	615	CLA	ND
23	B	616	CLA	ND
23	C	502	CLA	ND
23	C	503	CLA	ND
23	C	504	CLA	ND
23	C	505	CLA	ND
23	C	506	CLA	ND
23	C	507	CLA	ND
23	C	508	CLA	ND
23	C	509	CLA	ND
23	C	510	CLA	ND
23	C	511	CLA	ND
23	C	512	CLA	ND
23	C	513	CLA	ND
23	C	514	CLA	ND
23	D	402[A]	CLA	ND
23	D	402[B]	CLA	ND
23	D	403	CLA	ND
23	a	404[A]	CLA	ND
23	a	404[B]	CLA	ND
23	a	405[A]	CLA	ND
23	a	405[B]	CLA	ND
23	a	408	CLA	ND
23	b	601	CLA	ND
23	b	602	CLA	ND
23	b	603	CLA	ND
23	b	604	CLA	ND
23	b	605	CLA	ND
23	b	606	CLA	ND
23	b	607	CLA	ND
23	b	609	CLA	ND
23	b	610	CLA	ND
23	b	611	CLA	ND
23	b	612	CLA	ND
23	b	613	CLA	ND
23	b	614	CLA	ND
23	b	615	CLA	ND
23	b	616	CLA	ND

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Mol	Chain	Res	Type	Atom
23	c	501	CLA	ND
23	c	502	CLA	ND
23	c	503	CLA	ND
23	c	504	CLA	ND
23	c	505	CLA	ND
23	c	506	CLA	ND
23	c	507	CLA	ND
23	c	508	CLA	ND
23	c	509	CLA	ND
23	c	510	CLA	ND
23	c	511	CLA	ND
23	c	512	CLA	ND
23	c	513	CLA	ND
23	d	402[A]	CLA	ND
23	d	402[B]	CLA	ND
23	d	403	CLA	ND

All (1656) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	A	408	CLA	C4-C3-C5-C6
23	B	603	CLA	C2-C3-C5-C6
23	B	603	CLA	C4-C3-C5-C6
23	B	614	CLA	CHA-CBD-CGD-O1D
23	B	614	CLA	CAD-CBD-CGD-O1D
23	B	614	CLA	CAD-CBD-CGD-O2D
23	C	505	CLA	C2-C3-C5-C6
23	C	505	CLA	C4-C3-C5-C6
23	C	509	CLA	CHA-CBD-CGD-O1D
23	C	509	CLA	CHA-CBD-CGD-O2D
23	a	408	CLA	C2-C3-C5-C6
23	a	408	CLA	C4-C3-C5-C6
23	b	603	CLA	C4-C3-C5-C6
23	b	606	CLA	CHA-CBD-CGD-O1D
23	b	606	CLA	CHA-CBD-CGD-O2D
23	b	606	CLA	C12-C13-C15-C16
23	b	614	CLA	CHA-CBD-CGD-O1D
23	b	614	CLA	CHA-CBD-CGD-O2D
23	b	614	CLA	CAD-CBD-CGD-O1D
23	b	614	CLA	CAD-CBD-CGD-O2D
23	c	504	CLA	C11-C12-C13-C14
23	c	507	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
23	c	508	CLA	CHA-CBD-CGD-O1D
23	c	508	CLA	CHA-CBD-CGD-O2D
23	c	509	CLA	C2-C1-O2A-CGA
23	c	509	CLA	C11-C10-C8-C9
23	d	403	CLA	C2-C3-C5-C6
23	d	403	CLA	C4-C3-C5-C6
25	D	404	BCR	C21-C22-C23-C24
25	D	404	BCR	C37-C22-C23-C24
25	D	404	BCR	C23-C24-C25-C30
25	Y	101	BCR	C1-C6-C7-C8
25	Y	101	BCR	C5-C6-C7-C8
25	b	617	BCR	C1-C6-C7-C8
25	y	101	BCR	C1-C6-C7-C8
25	y	101	BCR	C5-C6-C7-C8
26	A	410[B]	SQD	C8-C7-O47-C45
26	A	412	SQD	O6-C44-C45-O47
26	B	620	SQD	O49-C7-O47-C45
26	F	103	SQD	C2-C1-O6-C44
26	F	103	SQD	O49-C7-O47-C45
26	F	103	SQD	C8-C7-O47-C45
26	a	411	SQD	O6-C44-C45-O47
26	a	411	SQD	C5-C6-S-O7
26	a	411	SQD	C5-C6-S-O8
26	a	411	SQD	C5-C6-S-O9
26	b	620	SQD	C8-C7-O47-C45
26	f	102	SQD	O6-C44-C45-O47
26	f	102	SQD	O49-C7-O47-C45
26	f	102	SQD	C8-C7-O47-C45
27	A	411	GOL	O1-C1-C2-C3
27	B	623	GOL	O1-C1-C2-C3
27	B	628	GOL	O1-C1-C2-C3
27	D	412	GOL	C1-C2-C3-O3
27	O	302	GOL	O1-C1-C2-C3
27	V	203[A]	GOL	C1-C2-C3-O3
27	V	203[B]	GOL	C1-C2-C3-O3
27	V	203[B]	GOL	O2-C2-C3-O3
27	b	624	GOL	C1-C2-C3-O3
27	c	526	GOL	C1-C2-C3-O3
27	o	303	GOL	C1-C2-C3-O3
27	o	304	GOL	C1-C2-C3-O3
27	v	202[B]	GOL	O1-C1-C2-O2
29	A	414[A]	PL9	C9-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
29	A	414[A]	PL9	C15-C14-C16-C17
29	A	414[A]	PL9	C14-C16-C17-C18
29	A	414[B]	PL9	C9-C11-C12-C13
29	A	414[B]	PL9	C14-C16-C17-C18
29	a	413[A]	PL9	C9-C11-C12-C13
29	a	413[A]	PL9	C14-C16-C17-C18
29	a	413[A]	PL9	C23-C24-C26-C27
29	a	413[A]	PL9	C25-C24-C26-C27
29	a	413[B]	PL9	C9-C11-C12-C13
29	a	413[B]	PL9	C14-C16-C17-C18
31	A	417	LMT	C2'-C1'-O1'-C1
31	A	417	LMT	O5'-C1'-O1'-C1
31	A	420	LMT	C2'-C1'-O1'-C1
31	A	420	LMT	O5'-C1'-O1'-C1
31	A	420	LMT	C2-C1-O1'-C1'
31	B	629	LMT	C2'-C1'-O1'-C1
31	B	631	LMT	O5'-C1'-O1'-C1
31	B	631	LMT	C2-C1-O1'-C1'
31	F	101	LMT	C2'-C1'-O1'-C1
31	F	101	LMT	O5'-C1'-O1'-C1
31	M	103	LMT	C2-C1-O1'-C1'
31	b	627	LMT	C2'-C1'-O1'-C1
31	b	627	LMT	O5'-C1'-O1'-C1
31	t	101	LMT	O5'-C1'-O1'-C1
31	t	101	LMT	C2-C1-O1'-C1'
32	D	406[A]	LHG	O2-C2-C3-O3
32	D	406[A]	LHG	C3-O3-P-O4
32	D	406[A]	LHG	C3-O3-P-O5
32	D	406[A]	LHG	C3-O3-P-O6
32	D	406[A]	LHG	C4-O6-P-O4
32	D	406[B]	LHG	C3-O3-P-O4
32	D	406[B]	LHG	C4-O6-P-O4
32	D	406[B]	LHG	C4-O6-P-O5
32	E	101[A]	LHG	C3-O3-P-O4
32	E	101[A]	LHG	C3-O3-P-O5
32	E	101[A]	LHG	O10-C23-O8-C6
32	E	101[A]	LHG	C24-C23-O8-C6
32	E	101[B]	LHG	C3-O3-P-O4
32	E	101[B]	LHG	C3-O3-P-O5
32	E	101[B]	LHG	O10-C23-O8-C6
32	E	101[B]	LHG	C24-C23-O8-C6
32	L	101[A]	LHG	C4-O6-P-O4

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Mol	Chain	Res	Type	Atoms
32	L	101[A]	LHG	C4-O6-P-O5
32	L	101[B]	LHG	C4-O6-P-O3
32	L	101[B]	LHG	C4-O6-P-O4
32	L	101[B]	LHG	C4-O6-P-O5
32	a	420[A]	LHG	C3-O3-P-O4
32	a	420[A]	LHG	C4-O6-P-O5
32	a	420[A]	LHG	O10-C23-O8-C6
32	a	420[A]	LHG	C24-C23-O8-C6
32	a	420[B]	LHG	C3-O3-P-O4
32	a	420[B]	LHG	C4-O6-P-O5
32	a	420[B]	LHG	O10-C23-O8-C6
32	a	420[B]	LHG	C24-C23-O8-C6
32	b	629[A]	LHG	C4-O6-P-O4
32	b	629[A]	LHG	C4-O6-P-O5
32	b	629[B]	LHG	C4-O6-P-O3
32	b	629[B]	LHG	C4-O6-P-O4
32	b	629[B]	LHG	C4-O6-P-O5
32	d	406[A]	LHG	C3-O3-P-O4
32	d	406[A]	LHG	C3-O3-P-O5
32	d	406[A]	LHG	C4-O6-P-O4
32	d	406[B]	LHG	O2-C2-C3-O3
32	d	406[B]	LHG	C3-O3-P-O4
32	d	406[B]	LHG	C4-O6-P-O4
32	d	406[B]	LHG	C4-O6-P-O5
32	d	413[A]	LHG	C3-O3-P-O5
33	C	521	LMG	C11-C10-O7-C8
33	c	520	LMG	O9-C10-O7-C8
33	Z	101	LMG	O9-C10-O7-C8
33	Z	101	LMG	C11-C10-O7-C8
33	z	101	LMG	O6-C1-O1-C7
34	o	301	HTG	C2'-C1'-S1-C1
31	B	629	LMT	C4'-C5'-C6'-O6'
31	A	420	LMT	O5B-C1B-O1B-C4'
23	D	403	CLA	CBD-CGD-O2D-CED
26	A	410[A]	SQD	O49-C7-O47-C45
26	A	410[B]	SQD	O49-C7-O47-C45
26	b	620	SQD	O49-C7-O47-C45
33	C	521	LMG	O9-C10-O7-C8
33	z	101	LMG	O9-C10-O7-C8
23	B	614	CLA	C3-C5-C6-C7
23	D	403	CLA	C3-C5-C6-C7
23	b	616	CLA	C3-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
23	d	403	CLA	C3-C5-C6-C7
31	a	417	LMT	O5B-C5B-C6B-O6B
26	B	620	SQD	C8-C7-O47-C45
33	c	520	LMG	C11-C10-O7-C8
31	F	101	LMT	O5'-C5'-C6'-O6'
34	D	410	HTG	O5-C5-C6-O6
23	D	403	CLA	C4-C3-C5-C6
29	A	414[A]	PL9	C20-C19-C21-C22
29	A	414[B]	PL9	C30-C29-C31-C32
29	a	413[B]	PL9	C25-C24-C26-C27
23	A	408	CLA	C2-C3-C5-C6
23	D	403	CLA	C2-C3-C5-C6
23	c	507	CLA	C2-C3-C5-C6
29	A	414[A]	PL9	C18-C19-C21-C22
29	A	414[B]	PL9	C18-C19-C21-C22
23	b	606	CLA	C2A-CAA-CBA-CGA
23	c	512	CLA	C3-C5-C6-C7
31	M	103	LMT	C4B-C5B-C6B-O6B
34	D	410	HTG	S1-C1'-C2'-C3'
34	b	625	HTG	S1-C1'-C2'-C3'
31	m	103	LMT	C4B-C5B-C6B-O6B
31	B	629	LMT	O5B-C5B-C6B-O6B
31	M	103	LMT	O5'-C5'-C6'-O6'
31	b	621	LMT	O5'-C5'-C6'-O6'
31	B	627	LMT	C4'-C5'-C6'-O6'
23	C	514	CLA	CBD-CGD-O2D-CED
23	c	513	CLA	CBD-CGD-O2D-CED
32	d	406[A]	LHG	O2-C2-C3-O3
23	A	408	CLA	C3-C5-C6-C7
26	A	410[A]	SQD	C8-C7-O47-C45
33	z	101	LMG	C11-C10-O7-C8
23	c	510	CLA	CBD-CGD-O2D-CED
31	b	627	LMT	O5'-C5'-C6'-O6'
33	C	521	LMG	O6-C5-C6-O5
31	B	627	LMT	C6-C7-C8-C9
31	m	103	LMT	O5B-C5B-C6B-O6B
31	a	417	LMT	C4B-C5B-C6B-O6B
23	C	504	CLA	CBD-CGD-O2D-CED
31	A	420	LMT	O5B-C5B-C6B-O6B
31	B	627	LMT	O5B-C5B-C6B-O6B
33	c	520	LMG	C4-C5-C6-O5
31	B	627	LMT	O5'-C5'-C6'-O6'

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Mol	Chain	Res	Type	Atoms
31	B	631	LMT	O5'-C5'-C6'-O6'
31	M	103	LMT	O5B-C5B-C6B-O6B
23	B	605	CLA	C4-C3-C5-C6
23	C	508	CLA	C4-C3-C5-C6
23	b	605	CLA	C4-C3-C5-C6
23	b	614	CLA	C4-C3-C5-C6
29	A	414[B]	PL9	C15-C14-C16-C17
29	A	414[B]	PL9	C20-C19-C21-C22
29	a	413[A]	PL9	C15-C14-C16-C17
29	a	413[A]	PL9	C30-C29-C31-C32
29	a	413[B]	PL9	C15-C14-C16-C17
29	a	413[B]	PL9	C30-C29-C31-C32
31	B	629	LMT	C4B-C5B-C6B-O6B
31	M	103	LMT	C4'-C5'-C6'-O6'
34	D	410	HTG	C4-C5-C6-O6
23	B	605	CLA	C2-C3-C5-C6
23	C	508	CLA	C2-C3-C5-C6
23	b	603	CLA	C2-C3-C5-C6
23	b	605	CLA	C2-C3-C5-C6
23	b	614	CLA	C2-C3-C5-C6
29	A	414[A]	PL9	C13-C14-C16-C17
29	A	414[B]	PL9	C13-C14-C16-C17
29	a	413[A]	PL9	C13-C14-C16-C17
29	a	413[A]	PL9	C28-C29-C31-C32
29	a	413[B]	PL9	C13-C14-C16-C17
29	a	413[B]	PL9	C28-C29-C31-C32
23	B	606	CLA	C2A-CAA-CBA-CGA
31	A	420	LMT	O5'-C5'-C6'-O6'
31	B	629	LMT	O5'-C5'-C6'-O6'
26	B	620	SQD	O5-C1-O6-C44
29	A	414[A]	PL9	C44-C46-C47-C48
29	A	414[B]	PL9	C44-C46-C47-C48
29	D	405[A]	PL9	C39-C41-C42-C43
29	D	405[B]	PL9	C39-C41-C42-C43
29	d	405[B]	PL9	C39-C41-C42-C43
34	b	625	HTG	O5-C5-C6-O6
31	e	101	LMT	C4'-C5'-C6'-O6'
32	d	406[A]	LHG	C1-C2-C3-O3
23	a	408	CLA	CBA-CGA-O2A-C1
23	B	601	CLA	C10-C11-C12-C13
31	B	631	LMT	C4'-C5'-C6'-O6'
23	b	601	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
31	A	420	LMT	C4B-C5B-C6B-O6B
31	F	101	LMT	C4'-C5'-C6'-O6'
31	b	627	LMT	C4'-C5'-C6'-O6'
23	A	408	CLA	C5-C6-C7-C8
32	D	406[B]	LHG	O2-C2-C3-O3
26	F	103	SQD	C23-C24-C25-C26
35	c	517[B]	DGD	C1B-C2B-C3B-C4B
31	B	631	LMT	C2'-C1'-O1'-C1
31	t	101	LMT	C2'-C1'-O1'-C1
33	B	621	LMG	C39-C40-C41-C42
29	A	414[A]	PL9	C30-C29-C31-C32
29	a	413[B]	PL9	C23-C24-C26-C27
23	B	602	CLA	C6-C7-C8-C9
23	C	503	CLA	C14-C13-C15-C16
23	C	507	CLA	C14-C13-C15-C16
23	b	601	CLA	C11-C10-C8-C9
23	b	604	CLA	C6-C7-C8-C9
23	b	616	CLA	C6-C7-C8-C9
35	c	518	DGD	C2B-C3B-C4B-C5B
31	b	621	LMT	C4'-C5'-C6'-O6'
32	E	101[A]	LHG	C23-C24-C25-C26
23	B	601	CLA	C5-C6-C7-C8
23	b	604	CLA	C8-C10-C11-C12
31	B	627	LMT	C5'-C4'-O1B-C1B
23	B	602	CLA	C13-C15-C16-C17
23	b	611	CLA	C15-C16-C17-C18
34	b	623	HTG	C1'-C2'-C3'-C4'
23	C	508	CLA	C5-C6-C7-C8
26	B	620	SQD	C7-C8-C9-C10
35	c	517[A]	DGD	C1B-C2B-C3B-C4B
32	D	407[B]	LHG	C33-C34-C35-C36
23	B	603	CLA	C13-C15-C16-C17
23	c	512	CLA	C15-C16-C17-C18
23	c	509	CLA	C3-C5-C6-C7
26	b	620	SQD	C18-C19-C20-C21
31	A	420	LMT	O1'-C1-C2-C3
35	C	519	DGD	C6B-C7B-C8B-C9B
35	h	102	DGD	C6B-C7B-C8B-C9B
32	D	407[A]	LHG	C33-C34-C35-C36
33	Z	101	LMG	C10-C11-C12-C13
23	b	606	CLA	C13-C15-C16-C17
23	b	614	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
23	A	408	CLA	C12-C13-C15-C16
23	B	614	CLA	C11-C10-C8-C7
23	B	616	CLA	C3-C5-C6-C7
25	T	101	BCR	C13-C14-C15-C16
33	d	411	LMG	C10-C11-C12-C13
23	B	606	CLA	C10-C11-C12-C13
23	B	614	CLA	C8-C10-C11-C12
23	D	403	CLA	C10-C11-C12-C13
23	c	513	CLA	C10-C11-C12-C13
23	C	502	CLA	CBD-CGD-O2D-CED
31	B	627	LMT	C4B-C5B-C6B-O6B
26	F	103	SQD	O5-C1-O6-C44
31	B	629	LMT	O5'-C1'-O1'-C1
31	b	621	LMT	O5'-C1'-O1'-C1
31	e	101	LMT	O5'-C1'-O1'-C1
23	B	615	CLA	C10-C11-C12-C13
23	a	404[A]	CLA	C15-C16-C17-C18
29	d	405[A]	PL9	C39-C41-C42-C43
31	a	417	LMT	O1'-C1-C2-C3
31	e	101	LMT	O5B-C5B-C6B-O6B
23	b	611	CLA	C8-C10-C11-C12
23	a	408	CLA	O1A-CGA-O2A-C1
31	A	420	LMT	C4'-C5'-C6'-O6'
23	C	503	CLA	C13-C15-C16-C17
23	C	509	CLA	C10-C11-C12-C13
23	a	404[B]	CLA	C15-C16-C17-C18
23	b	606	CLA	C10-C11-C12-C13
23	c	506	CLA	C15-C16-C17-C18
26	B	620	SQD	C30-C31-C32-C33
23	B	614	CLA	C10-C11-C12-C13
23	C	511	CLA	C10-C11-C12-C13
23	b	604	CLA	C5-C6-C7-C8
32	D	406[B]	LHG	C3-O3-P-O6
32	D	406[B]	LHG	C4-O6-P-O3
32	E	101[A]	LHG	C3-O3-P-O6
32	E	101[A]	LHG	C4-O6-P-O3
32	E	101[B]	LHG	C3-O3-P-O6
32	E	101[B]	LHG	C4-O6-P-O3
32	L	101[A]	LHG	C4-O6-P-O3
32	a	420[A]	LHG	C3-O3-P-O6
32	a	420[A]	LHG	C4-O6-P-O3
32	a	420[B]	LHG	C3-O3-P-O6

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Mol	Chain	Res	Type	Atoms
32	a	420[B]	LHG	C4-O6-P-O3
32	b	629[A]	LHG	C4-O6-P-O3
32	d	406[A]	LHG	C3-O3-P-O6
32	d	406[B]	LHG	C3-O3-P-O6
32	d	406[B]	LHG	C4-O6-P-O3
26	A	410[A]	SQD	C7-C8-C9-C10
26	A	410[B]	SQD	C7-C8-C9-C10
31	t	101	LMT	O5'-C5'-C6'-O6'
31	A	420	LMT	C5'-C4'-O1B-C1B
34	b	622	HTG	S1-C1'-C2'-C3'
32	D	406[A]	LHG	C1-C2-C3-O3
32	d	406[B]	LHG	C1-C2-C3-O3
26	A	410[A]	SQD	C12-C13-C14-C15
23	c	507	CLA	C2A-CAA-CBA-CGA
23	B	615	CLA	C16-C17-C18-C19
23	a	408	CLA	C16-C17-C18-C19
23	b	614	CLA	C16-C17-C18-C20
23	b	615	CLA	C16-C17-C18-C19
23	c	509	CLA	C16-C17-C18-C20
34	B	624	HTG	O5-C5-C6-O6
33	a	416	LMG	C4-C5-C6-O5
35	C	517[B]	DGD	O6D-C5D-C6D-O5D
35	c	516[B]	DGD	O6D-C5D-C6D-O5D
23	D	403	CLA	O1D-CGD-O2D-CED
26	f	102	SQD	C32-C33-C34-C35
31	A	417	LMT	O1'-C1-C2-C3
31	t	101	LMT	C4-C5-C6-C7
33	B	621	LMG	C11-C10-O7-C8
26	F	103	SQD	C30-C31-C32-C33
31	B	627	LMT	C5-C6-C7-C8
32	L	101[A]	LHG	C15-C16-C17-C18
32	L	101[A]	LHG	C17-C18-C19-C20
32	d	413[B]	LHG	C16-C17-C18-C19
33	D	411	LMG	C19-C20-C21-C22
33	a	416	LMG	C30-C31-C32-C33
35	C	517[B]	DGD	C5B-C6B-C7B-C8B
35	C	518[B]	DGD	CCB-CDB-CEB-CFB
35	c	516[A]	DGD	C9A-CAA-CBA-CCA
35	c	516[B]	DGD	C5A-C6A-C7A-C8A
35	c	517[A]	DGD	C9A-CAA-CBA-CCA
23	B	603	CLA	C16-C17-C18-C20
31	B	631	LMT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
31	b	627	LMT	C7-C8-C9-C10
32	d	413[A]	LHG	C16-C17-C18-C19
34	B	622	HTG	C3'-C4'-C5'-C6'
35	c	517[B]	DGD	C9A-CAA-CBA-CCA
33	c	520	LMG	O6-C5-C6-O5
33	B	621	LMG	O9-C10-O7-C8
26	A	410[B]	SQD	C15-C16-C17-C18
26	b	620	SQD	C31-C32-C33-C34
35	c	517[B]	DGD	CBA-CCA-CDA-CEA
35	h	102	DGD	C7B-C8B-C9B-CAB
32	D	406[A]	LHG	C16-C17-C18-C19
32	d	413[A]	LHG	C32-C33-C34-C35
35	C	517[A]	DGD	C5B-C6B-C7B-C8B
23	b	614	CLA	C10-C11-C12-C13
31	B	631	LMT	C3-C4-C5-C6
32	a	420[A]	LHG	C26-C27-C28-C29
33	D	411	LMG	C35-C36-C37-C38
33	m	101	LMG	C35-C36-C37-C38
35	c	516[A]	DGD	C5A-C6A-C7A-C8A
35	c	516[B]	DGD	C9A-CAA-CBA-CCA
35	c	516[B]	DGD	C2B-C3B-C4B-C5B
35	c	517[A]	DGD	CBA-CCA-CDA-CEA
26	A	412	SQD	C2-C1-O6-C44
31	M	101	LMT	C2'-C1'-O1'-C1
31	b	621	LMT	C2'-C1'-O1'-C1
31	e	101	LMT	C2'-C1'-O1'-C1
35	C	518[A]	DGD	C2E-C1E-O5D-C6D
35	C	518[B]	DGD	C2E-C1E-O5D-C6D
26	b	620	SQD	C27-C28-C29-C30
32	L	101[B]	LHG	C25-C26-C27-C28
32	a	420[B]	LHG	C26-C27-C28-C29
32	d	413[B]	LHG	C32-C33-C34-C35
33	C	501	LMG	C17-C18-C19-C20
35	C	517[A]	DGD	C4B-C5B-C6B-C7B
35	c	516[A]	DGD	C2B-C3B-C4B-C5B
35	c	517[A]	DGD	CAA-CBA-CCA-CDA
35	h	102	DGD	C9A-CAA-CBA-CCA
23	a	408	CLA	C16-C17-C18-C20
23	b	602	CLA	C16-C17-C18-C19
23	c	508	CLA	C16-C17-C18-C19
23	d	403	CLA	C16-C17-C18-C20
29	D	405[B]	PL9	C15-C14-C16-C17

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Mol	Chain	Res	Type	Atoms
31	B	629	LMT	C2-C3-C4-C5
32	D	407[B]	LHG	C32-C33-C34-C35
32	L	101[A]	LHG	C13-C14-C15-C16
35	H	102	DGD	C5B-C6B-C7B-C8B
23	a	406[A]	CLA	C11-C12-C13-C14
23	a	406[B]	CLA	C11-C12-C13-C14
23	b	606	CLA	C14-C13-C15-C16
23	c	504	CLA	C14-C13-C15-C16
26	A	410[A]	SQD	C15-C16-C17-C18
31	A	420	LMT	C3-C4-C5-C6
31	e	101	LMT	C4-C5-C6-C7
31	e	101	LMT	C5-C6-C7-C8
32	D	406[B]	LHG	C16-C17-C18-C19
32	L	101[B]	LHG	C12-C13-C14-C15
32	b	629[B]	LHG	C27-C28-C29-C30
32	d	406[B]	LHG	C34-C35-C36-C37
33	C	501	LMG	C12-C13-C14-C15
33	C	521	LMG	C19-C20-C21-C22
35	C	518[A]	DGD	CCB-CDB-CEB-CFB
31	e	101	LMT	O5'-C5'-C6'-O6'
23	b	610	CLA	C2A-CAA-CBA-CGA
25	b	619	BCR	C7-C8-C9-C34
31	M	103	LMT	C7-C8-C9-C10
33	m	101	LMG	C39-C40-C41-C42
27	B	623	GOL	C1-C2-C3-O3
27	B	628	GOL	C1-C2-C3-O3
27	D	412	GOL	O1-C1-C2-C3
27	O	303	GOL	O1-C1-C2-C3
27	a	418	GOL	O1-C1-C2-C3
27	d	412	GOL	O1-C1-C2-C3
27	l	801[B]	GOL	O1-C1-C2-C3
27	v	202[A]	GOL	O1-C1-C2-C3
27	v	202[B]	GOL	O1-C1-C2-C3
32	A	419[B]	LHG	O1-C1-C2-C3
34	o	301	HTG	C1'-C2'-C3'-C4'
25	b	619	BCR	C7-C8-C9-C10
31	a	417	LMT	C1-C2-C3-C4
23	A	405[B]	CLA	C15-C16-C17-C18
23	b	606	CLA	C15-C16-C17-C18
31	B	631	LMT	C4-C5-C6-C7
32	D	407[A]	LHG	C32-C33-C34-C35
32	b	629[A]	LHG	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
33	B	621	LMG	C17-C18-C19-C20
33	C	501	LMG	C36-C37-C38-C39
32	E	101[B]	LHG	C23-C24-C25-C26
32	L	101[A]	LHG	C12-C13-C14-C15
32	d	407[B]	LHG	C27-C28-C29-C30
32	d	413[A]	LHG	C29-C30-C31-C32
33	D	411	LMG	C12-C13-C14-C15
33	c	519	LMG	C31-C32-C33-C34
35	c	517[B]	DGD	CAA-CBA-CCA-CDA
35	c	518	DGD	CBB-CCB-CDB-CEB
23	B	603	CLA	C16-C17-C18-C19
23	b	602	CLA	C16-C17-C18-C20
23	b	614	CLA	C16-C17-C18-C19
23	b	615	CLA	C16-C17-C18-C20
23	c	509	CLA	C16-C17-C18-C19
23	d	402[A]	CLA	C16-C17-C18-C20
23	d	402[B]	CLA	C16-C17-C18-C20
31	M	101	LMT	O5'-C1'-O1'-C1
23	A	405[A]	CLA	C15-C16-C17-C18
23	b	605	CLA	C8-C10-C11-C12
32	L	101[B]	LHG	C13-C14-C15-C16
32	b	629[A]	LHG	C16-C17-C18-C19
32	b	629[B]	LHG	C12-C13-C14-C15
33	B	621	LMG	C34-C35-C36-C37
33	C	521	LMG	C18-C19-C20-C21
34	b	622	HTG	C2'-C3'-C4'-C5'
35	c	516[B]	DGD	C4D-C5D-C6D-O5D
31	b	621	LMT	C11-C10-C9-C8
31	m	103	LMT	C7-C8-C9-C10
35	H	102	DGD	C9B-CAB-CBB-CCB
33	a	416	LMG	C10-C11-C12-C13
23	B	615	CLA	C5-C6-C7-C8
32	L	101[B]	LHG	C27-C28-C29-C30
33	C	501	LMG	C19-C20-C21-C22
33	m	101	LMG	C14-C15-C16-C17
32	d	407[A]	LHG	C27-C28-C29-C30
33	C	521	LMG	C17-C18-C19-C20
35	C	517[A]	DGD	C9A-CAA-CBA-CCA
35	C	517[B]	DGD	C4B-C5B-C6B-C7B
31	b	627	LMT	C2-C1-O1'-C1'
26	B	620	SQD	C11-C10-C9-C8
31	b	627	LMT	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
32	E	101[A]	LHG	C24-C25-C26-C27
32	E	101[B]	LHG	C24-C25-C26-C27
23	B	615	CLA	C16-C17-C18-C20
26	a	411	SQD	C25-C26-C27-C28
32	D	407[B]	LHG	C29-C30-C31-C32
32	L	101[A]	LHG	C25-C26-C27-C28
33	a	416	LMG	C34-C35-C36-C37
35	c	518	DGD	CBA-CCA-CDA-CEA
32	A	419[B]	LHG	C34-C35-C36-C37
32	b	629[A]	LHG	C27-C28-C29-C30
35	c	516[A]	DGD	O6D-C5D-C6D-O5D
23	c	505	CLA	C4-C3-C5-C6
24	a	407[B]	PHO	C4-C3-C5-C6
23	C	506	CLA	C2-C3-C5-C6
24	a	407[B]	PHO	C2-C3-C5-C6
29	A	414[A]	PL9	C12-C11-C9-C8
29	D	405[A]	PL9	C13-C14-C16-C17
31	B	629	LMT	C5-C6-C7-C8
31	A	420	LMT	C1-C2-C3-C4
27	A	411	GOL	O1-C1-C2-O2
27	B	623	GOL	O2-C2-C3-O3
27	B	628	GOL	O1-C1-C2-O2
27	D	412	GOL	O1-C1-C2-O2
27	D	412	GOL	O2-C2-C3-O3
27	O	302	GOL	O1-C1-C2-O2
27	O	303	GOL	O1-C1-C2-O2
27	V	203[A]	GOL	O2-C2-C3-O3
27	a	418	GOL	O1-C1-C2-O2
27	b	624	GOL	O2-C2-C3-O3
27	c	526	GOL	O2-C2-C3-O3
23	A	406[B]	CLA	C13-C15-C16-C17
26	F	103	SQD	C29-C30-C31-C32
32	d	413[A]	LHG	C24-C25-C26-C27
23	B	610	CLA	C16-C17-C18-C19
32	E	101[A]	LHG	O2-C2-C3-O3
32	D	406[A]	LHG	C12-C13-C14-C15
35	C	517[B]	DGD	C4D-C5D-C6D-O5D
32	b	629[B]	LHG	C14-C15-C16-C17
33	C	521	LMG	C13-C14-C15-C16
31	A	420	LMT	C5-C6-C7-C8
23	B	616	CLA	C2-C1-O2A-CGA
23	b	601	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
35	C	517[A]	DGD	O6D-C5D-C6D-O5D
35	c	516[B]	DGD	C7A-C8A-C9A-CAA
23	B	608	CLA	C13-C15-C16-C17
26	A	412	SQD	C27-C28-C29-C30
32	A	419[A]	LHG	C34-C35-C36-C37
33	C	520	LMG	C16-C17-C18-C19
35	C	517[B]	DGD	C9A-CAA-CBA-CCA
25	D	404	BCR	C23-C24-C25-C26
25	b	617	BCR	C5-C6-C7-C8
25	b	619	BCR	C5-C6-C7-C8
33	Z	101	LMG	O6-C5-C6-O5
26	A	412	SQD	C26-C27-C28-C29
31	B	627	LMT	C3'-C4'-O1B-C1B
33	d	411	LMG	C29-C30-C31-C32
35	c	516[A]	DGD	C7A-C8A-C9A-CAA
23	d	403	CLA	CBA-CGA-O2A-C1
35	c	516[B]	DGD	C2A-C1A-O1G-C1G
23	C	503	CLA	C15-C16-C17-C18
23	b	604	CLA	C15-C16-C17-C18
32	D	407[B]	LHG	C13-C14-C15-C16
32	d	407[A]	LHG	C29-C30-C31-C32
33	C	501	LMG	C39-C40-C41-C42
33	m	101	LMG	C38-C39-C40-C41
31	b	621	LMT	C3'-C4'-O1B-C1B
32	d	406[A]	LHG	C34-C35-C36-C37
35	c	517[A]	DGD	C6A-C7A-C8A-C9A
33	B	621	LMG	C32-C33-C34-C35
23	C	511	CLA	C4-C3-C5-C6
29	A	414[A]	PL9	C45-C44-C46-C47
29	a	413[A]	PL9	C12-C11-C9-C10
29	d	405[B]	PL9	C15-C14-C16-C17
23	B	606	CLA	C11-C10-C8-C7
23	C	511	CLA	C2-C3-C5-C6
23	C	511	CLA	C11-C12-C13-C15
23	D	403	CLA	C11-C10-C8-C7
23	a	406[A]	CLA	C11-C12-C13-C15
23	a	406[B]	CLA	C11-C12-C13-C15
23	c	504	CLA	C12-C13-C15-C16
23	c	505	CLA	C2-C3-C5-C6
29	D	405[B]	PL9	C13-C14-C16-C17
29	d	405[A]	PL9	C13-C14-C16-C17
29	d	405[B]	PL9	C13-C14-C16-C17

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Mol	Chain	Res	Type	Atoms
34	B	624	HTG	S1-C1'-C2'-C3'
23	d	403	CLA	O1A-CGA-O2A-C1
32	A	419[A]	LHG	C12-C13-C14-C15
33	D	411	LMG	C30-C31-C32-C33
34	b	622	HTG	C3'-C4'-C5'-C6'
35	c	517[A]	DGD	C4A-C5A-C6A-C7A
23	b	610	CLA	C15-C16-C17-C18
23	c	502	CLA	C16-C17-C18-C19
23	c	513	CLA	O1D-CGD-O2D-CED
33	m	101	LMG	O9-C10-O7-C8
33	C	501	LMG	C10-C11-C12-C13
23	C	513	CLA	CBA-CGA-O2A-C1
23	c	512	CLA	CBA-CGA-O2A-C1
33	c	519	LMG	C34-C35-C36-C37
31	b	627	LMT	C5-C6-C7-C8
26	F	103	SQD	C24-C25-C26-C27
32	L	101[B]	LHG	C15-C16-C17-C18
32	d	407[A]	LHG	C25-C26-C27-C28
33	c	519	LMG	C10-C11-C12-C13
23	C	514	CLA	O1D-CGD-O2D-CED
26	b	620	SQD	C26-C27-C28-C29
32	D	407[A]	LHG	C13-C14-C15-C16
33	a	416	LMG	C29-C30-C31-C32
35	c	516[A]	DGD	CAA-CBA-CCA-CDA
26	A	412	SQD	O5-C1-O6-C44
33	B	621	LMG	O6-C1-O1-C7
35	C	518[A]	DGD	O6E-C1E-O5D-C6D
35	C	518[B]	DGD	O6E-C1E-O5D-C6D
35	c	516[B]	DGD	O6E-C1E-O5D-C6D
29	a	413[B]	PL9	C24-C26-C27-C28
26	a	411	SQD	C31-C32-C33-C34
32	D	407[A]	LHG	C15-C16-C17-C18
32	d	406[B]	LHG	C16-C17-C18-C19
33	C	520	LMG	C17-C18-C19-C20
33	m	101	LMG	C11-C10-O7-C8
31	M	101	LMT	C3-C4-C5-C6
26	b	620	SQD	C13-C14-C15-C16
32	D	406[B]	LHG	C13-C14-C15-C16
35	h	102	DGD	C9B-CAB-CBB-CCB
33	B	621	LMG	C2-C1-O1-C7
26	A	410[A]	SQD	O6-C44-C45-O47
26	A	410[B]	SQD	O6-C44-C45-O47

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Mol	Chain	Res	Type	Atoms
26	A	412	SQD	C17-C18-C19-C20
32	d	407[A]	LHG	C34-C35-C36-C37
32	d	413[A]	LHG	C25-C26-C27-C28
35	c	516[B]	DGD	CAA-CBA-CCA-CDA
23	B	601	CLA	C15-C16-C17-C18
23	C	513	CLA	C10-C11-C12-C13
23	C	506	CLA	C4-C3-C5-C6
23	B	602	CLA	C11-C12-C13-C14
23	B	606	CLA	C11-C10-C8-C9
23	C	505	CLA	C14-C13-C15-C16
23	D	403	CLA	C11-C10-C8-C9
23	D	403	CLA	C14-C13-C15-C16
23	c	505	CLA	C11-C12-C13-C14
31	B	631	LMT	O1'-C1-C2-C3
35	H	102	DGD	CCB-CDB-CEB-CFB
35	c	517[A]	DGD	C2B-C3B-C4B-C5B
23	B	610	CLA	C2A-CAA-CBA-CGA
31	B	629	LMT	C6-C7-C8-C9
32	b	629[B]	LHG	C16-C17-C18-C19
23	A	406[A]	CLA	C13-C15-C16-C17
23	C	507	CLA	C15-C16-C17-C18
26	f	102	SQD	C25-C26-C27-C28
33	C	520	LMG	C37-C38-C39-C40
35	c	516[B]	DGD	O1A-C1A-O1G-C1G
23	B	604	CLA	C1A-C2A-CAA-CBA
23	B	611	CLA	C1A-C2A-CAA-CBA
23	c	513	CLA	C1A-C2A-CAA-CBA
23	B	610	CLA	C16-C17-C18-C20
23	c	508	CLA	C16-C17-C18-C20
23	d	403	CLA	C16-C17-C18-C19
26	a	410[A]	SQD	C9-C10-C11-C12
32	A	419[A]	LHG	C26-C27-C28-C29
33	D	411	LMG	C36-C37-C38-C39
23	b	601	CLA	C8-C10-C11-C12
23	b	601	CLA	C13-C15-C16-C17
23	b	605	CLA	C5-C6-C7-C8
32	D	406[A]	LHG	C4-O6-P-O3
33	B	621	LMG	C29-C30-C31-C32
31	A	417	LMT	O5B-C5B-C6B-O6B
23	C	512	CLA	C3-C5-C6-C7
23	a	404[B]	CLA	C2C-C3C-CAC-CBC
32	d	407[A]	LHG	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
31	e	101	LMT	C1-C2-C3-C4
32	d	407[B]	LHG	C25-C26-C27-C28
23	c	510	CLA	O1D-CGD-O2D-CED
34	b	623	HTG	O5-C5-C6-O6
32	L	101[B]	LHG	C17-C18-C19-C20
35	H	102	DGD	CCA-CDA-CEA-CFA
35	h	102	DGD	CCB-CDB-CEB-CFB
23	A	404[B]	CLA	C13-C15-C16-C17
31	b	621	LMT	C3-C4-C5-C6
35	C	517[A]	DGD	C8A-C9A-CAA-CBA
35	c	516[A]	DGD	C4D-C5D-C6D-O5D
31	A	420	LMT	C3'-C4'-O1B-C1B
23	c	511	CLA	C8-C10-C11-C12
23	C	513	CLA	O1A-CGA-O2A-C1
32	D	406[A]	LHG	C10-C11-C12-C13
23	b	606	CLA	C16-C17-C18-C20
23	d	402[A]	CLA	C16-C17-C18-C19
23	d	402[B]	CLA	C16-C17-C18-C19
35	c	516[B]	DGD	O6E-C5E-C6E-O5E
26	A	410[B]	SQD	O6-C44-C45-C46
26	A	412	SQD	O6-C44-C45-C46
26	B	620	SQD	C34-C35-C36-C37
26	a	410[A]	SQD	O6-C44-C45-C46
26	a	410[B]	SQD	O6-C44-C45-C46
26	f	102	SQD	O6-C44-C45-C46
26	f	102	SQD	C44-C45-C46-O48
32	E	101[A]	LHG	C4-C5-C6-O8
32	E	101[B]	LHG	C4-C5-C6-O8
33	C	521	LMG	C35-C36-C37-C38
35	C	517[B]	DGD	C8A-C9A-CAA-CBA
35	C	518[A]	DGD	CDA-CEA-CFA-CGA
35	C	518[A]	DGD	C2G-C3G-O3G-C1D
35	C	518[B]	DGD	C2G-C3G-O3G-C1D
35	C	518[B]	DGD	C5D-C6D-O5D-C1E
35	c	517[A]	DGD	C2G-C3G-O3G-C1D
35	c	517[A]	DGD	C5D-C6D-O5D-C1E
35	c	517[B]	DGD	C5D-C6D-O5D-C1E
31	M	101	LMT	O5'-C5'-C6'-O6'
31	t	101	LMT	C7-C8-C9-C10
32	b	629[A]	LHG	C9-C10-C11-C12
33	B	621	LMG	C15-C16-C17-C18
35	h	102	DGD	CBA-CCA-CDA-CEA

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Mol	Chain	Res	Type	Atoms
31	a	417	LMT	O5'-C5'-C6'-O6'
26	a	410[B]	SQD	C9-C10-C11-C12
32	D	407[A]	LHG	C29-C30-C31-C32
32	D	407[B]	LHG	C15-C16-C17-C18
35	C	519	DGD	C2B-C3B-C4B-C5B
32	d	413[A]	LHG	C33-C34-C35-C36
35	C	518[B]	DGD	CDA-CEA-CFA-CGA
27	B	628	GOL	O2-C2-C3-O3
27	o	303	GOL	O2-C2-C3-O3
27	o	304	GOL	O2-C2-C3-O3
26	a	410[B]	SQD	C12-C13-C14-C15
31	b	621	LMT	C7-C8-C9-C10
32	A	419[B]	LHG	C12-C13-C14-C15
33	Z	101	LMG	C11-C12-C13-C14
33	z	101	LMG	C14-C15-C16-C17
35	c	517[B]	DGD	C4A-C5A-C6A-C7A
31	a	417	LMT	C2-C3-C4-C5
33	a	416	LMG	C35-C36-C37-C38
31	m	103	LMT	O5'-C5'-C6'-O6'
33	D	411	LMG	O6-C5-C6-O5
33	d	411	LMG	O6-C5-C6-O5
35	C	517[A]	DGD	O6E-C5E-C6E-O5E
35	c	516[A]	DGD	O6E-C5E-C6E-O5E
31	b	627	LMT	C1-C2-C3-C4
29	a	413[B]	PL9	C12-C11-C9-C10
23	c	509	CLA	CBA-CGA-O2A-C1
26	b	620	SQD	C14-C15-C16-C17
23	c	512	CLA	CBD-CGD-O2D-CED
23	C	507	CLA	C5-C6-C7-C8
23	a	405[A]	CLA	C2C-C3C-CAC-CBC
26	B	620	SQD	C46-C45-O47-C7
35	C	517[B]	DGD	O6E-C5E-C6E-O5E
23	B	614	CLA	C5-C6-C7-C8
23	A	404[B]	CLA	C2-C1-O2A-CGA
23	C	510	CLA	C2-C1-O2A-CGA
26	a	410[A]	SQD	C12-C13-C14-C15
33	z	101	LMG	C20-C21-C22-C23
23	C	504	CLA	O1D-CGD-O2D-CED
23	B	607	CLA	C3-C5-C6-C7
31	F	101	LMT	C4-C5-C6-C7
32	d	406[B]	LHG	C13-C14-C15-C16
32	d	413[B]	LHG	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
35	H	102	DGD	C7A-C8A-C9A-CAA
35	c	516[A]	DGD	C2A-C1A-O1G-C1G
35	c	518	DGD	C2A-C1A-O1G-C1G
23	c	509	CLA	O1A-CGA-O2A-C1
32	D	407[A]	LHG	C17-C18-C19-C20
33	C	520	LMG	C11-C12-C13-C14
26	A	410[A]	SQD	C11-C10-C9-C8
31	a	417	LMT	C3-C4-C5-C6
32	A	419[A]	LHG	O2-C2-C3-O3
35	c	517[B]	DGD	C2B-C3B-C4B-C5B
23	B	605	CLA	C5-C6-C7-C8
33	m	101	LMG	C2-C1-O1-C7
32	D	407[B]	LHG	C17-C18-C19-C20
32	E	101[A]	LHG	C25-C26-C27-C28
32	d	407[A]	LHG	C33-C34-C35-C36
32	E	101[A]	LHG	C13-C14-C15-C16
23	A	404[A]	CLA	C13-C15-C16-C17
23	c	512	CLA	O1A-CGA-O2A-C1
35	C	519	DGD	CDB-CEB-CFB-CGB
23	B	602	CLA	C11-C12-C13-C15
23	B	610	CLA	C12-C13-C15-C16
23	B	613	CLA	C11-C10-C8-C7
23	C	505	CLA	C12-C13-C15-C16
23	C	506	CLA	C11-C12-C13-C15
23	C	514	CLA	C11-C10-C8-C7
23	C	514	CLA	C11-C12-C13-C15
23	D	403	CLA	C12-C13-C15-C16
23	b	601	CLA	C11-C10-C8-C7
23	b	616	CLA	C6-C7-C8-C10
23	c	505	CLA	C11-C12-C13-C15
23	c	506	CLA	C11-C10-C8-C7
23	c	510	CLA	C12-C13-C15-C16
23	c	512	CLA	C12-C13-C15-C16
23	d	402[B]	CLA	C11-C12-C13-C15
23	C	506	CLA	C11-C12-C13-C14
23	C	514	CLA	C11-C10-C8-C9
23	b	606	CLA	C11-C10-C8-C9
23	b	610	CLA	C11-C12-C13-C14
23	c	512	CLA	C6-C7-C8-C9
33	d	411	LMG	C28-C29-C30-C31
23	B	601	CLA	CBA-CGA-O2A-C1
23	b	601	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
23	c	511	CLA	CBA-CGA-O2A-C1
26	b	620	SQD	C24-C23-O48-C46
33	c	519	LMG	C33-C34-C35-C36
25	Y	101	BCR	C37-C22-C23-C24
23	c	502	CLA	C16-C17-C18-C20
32	E	101[B]	LHG	C25-C26-C27-C28
27	B	626	GOL	C1-C2-C3-O3
27	l	801[A]	GOL	O1-C1-C2-C3
34	b	622	HTG	C1'-C2'-C3'-C4'
32	d	406[B]	LHG	C11-C10-C9-C8
31	B	627	LMT	C1-C2-C3-C4
23	C	513	CLA	C3-C5-C6-C7
23	C	509	CLA	C5-C6-C7-C8
34	B	622	HTG	C4'-C5'-C6'-C7'
33	c	519	LMG	C4-C5-C6-O5
23	b	616	CLA	CBA-CGA-O2A-C1
33	c	520	LMG	C29-C28-O8-C9
33	z	101	LMG	C19-C20-C21-C22
35	c	517[B]	DGD	C9B-CAB-CBB-CCB
32	a	420[A]	LHG	C23-C24-C25-C26
35	c	518	DGD	C1A-C2A-C3A-C4A
32	D	406[B]	LHG	C11-C10-C9-C8
32	d	407[B]	LHG	C9-C10-C11-C12
33	m	101	LMG	C37-C38-C39-C40
32	L	101[B]	LHG	O6-C4-C5-C6
29	A	414[A]	PL9	C39-C41-C42-C43
29	A	414[B]	PL9	C39-C41-C42-C43
32	b	629[B]	LHG	C13-C14-C15-C16
26	b	620	SQD	C11-C10-C9-C8
29	D	405[A]	PL9	C45-C44-C46-C47
26	F	103	SQD	C7-C8-C9-C10
31	B	629	LMT	C1-C2-C3-C4
31	B	629	LMT	C3-C4-C5-C6
32	D	406[B]	LHG	C26-C27-C28-C29
23	B	602	CLA	C15-C16-C17-C18
26	A	410[B]	SQD	C12-C13-C14-C15
33	C	520	LMG	C30-C31-C32-C33
35	c	517[A]	DGD	CBB-CCB-CDB-CEB
23	c	511	CLA	C3-C5-C6-C7
32	d	407[B]	LHG	C28-C29-C30-C31
23	c	512	CLA	C10-C11-C12-C13
35	C	517[A]	DGD	CCA-CDA-CEA-CFA

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Mol	Chain	Res	Type	Atoms
32	a	420[A]	LHG	C10-C11-C12-C13
35	c	517[B]	DGD	C6A-C7A-C8A-C9A
31	B	627	LMT	C2-C1-O1'-C1'
31	F	101	LMT	C2-C1-O1'-C1'
31	e	101	LMT	C2-C1-O1'-C1'
32	d	413[B]	LHG	C25-C26-C27-C28
23	B	604	CLA	C3-C5-C6-C7
32	D	407[B]	LHG	C24-C23-O8-C6
26	F	103	SQD	C34-C35-C36-C37
32	d	407[B]	LHG	C34-C35-C36-C37
35	h	102	DGD	CDB-CEB-CFB-CGB
23	b	602	CLA	C10-C11-C12-C13
26	A	410[A]	SQD	O6-C44-C45-C46
32	a	420[A]	LHG	C4-C5-C6-O8
32	a	420[B]	LHG	C4-C5-C6-O8
33	a	416	LMG	C7-C8-C9-O8
32	A	419[B]	LHG	C26-C27-C28-C29
32	L	101[A]	LHG	C27-C28-C29-C30
35	C	517[A]	DGD	C1B-C2B-C3B-C4B
31	a	417	LMT	C9-C10-C11-C12
32	d	407[B]	LHG	C29-C30-C31-C32
33	c	519	LMG	C30-C31-C32-C33
35	C	517[B]	DGD	C7A-C8A-C9A-CAA
35	C	517[B]	DGD	CCA-CDA-CEA-CFA
23	C	502	CLA	O1D-CGD-O2D-CED
31	e	101	LMT	C9-C10-C11-C12
32	d	413[B]	LHG	C29-C30-C31-C32
35	c	516[A]	DGD	O1A-C1A-O1G-C1G
29	D	405[A]	PL9	C15-C14-C16-C17
29	D	405[A]	PL9	C43-C44-C46-C47
35	C	517[A]	DGD	C4D-C5D-C6D-O5D
26	B	620	SQD	C29-C30-C31-C32
35	C	517[A]	DGD	C7A-C8A-C9A-CAA
35	C	519	DGD	CAA-CBA-CCA-CDA
33	C	520	LMG	C34-C35-C36-C37
35	h	102	DGD	CAA-CBA-CCA-CDA
32	d	413[A]	LHG	C3-O3-P-O6
23	c	511	CLA	O1A-CGA-O2A-C1
35	c	518	DGD	O1A-C1A-O1G-C1G
27	B	626	GOL	O1-C1-C2-O2
27	v	202[A]	GOL	O1-C1-C2-O2
32	d	413[B]	LHG	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
35	C	517[A]	DGD	C3B-C4B-C5B-C6B
23	C	511	CLA	CBA-CGA-O2A-C1
23	B	601	CLA	O1A-CGA-O2A-C1
23	b	601	CLA	O1A-CGA-O2A-C1
23	A	406[A]	CLA	C16-C17-C18-C20
23	b	606	CLA	C16-C17-C18-C19
32	E	101[B]	LHG	O2-C2-C3-O3
26	F	103	SQD	C32-C33-C34-C35
33	C	520	LMG	C31-C32-C33-C34
26	a	410[A]	SQD	O6-C44-C45-O47
26	a	410[B]	SQD	O6-C44-C45-O47
26	b	620	SQD	O47-C45-C46-O48
33	d	411	LMG	C35-C36-C37-C38
32	d	406[B]	LHG	C25-C26-C27-C28
35	c	516[A]	DGD	O6E-C1E-O5D-C6D
23	b	603	CLA	C5-C6-C7-C8
29	a	413[A]	PL9	C24-C26-C27-C28
32	A	419[A]	LHG	C1-C2-C3-O3
23	C	507	CLA	C2-C1-O2A-CGA
23	b	608	CLA	C2-C1-O2A-CGA
23	b	613	CLA	C2-C1-O2A-CGA
23	b	614	CLA	C2-C1-O2A-CGA
23	C	511	CLA	C13-C15-C16-C17
32	a	420[B]	LHG	C23-C24-C25-C26
23	B	613	CLA	C11-C12-C13-C14
23	B	614	CLA	C14-C13-C15-C16
23	C	507	CLA	C6-C7-C8-C9
23	C	513	CLA	C6-C7-C8-C9
23	b	601	CLA	C6-C7-C8-C9
23	c	506	CLA	C6-C7-C8-C9
31	A	420	LMT	C4-C5-C6-C7
32	L	101[B]	LHG	C26-C27-C28-C29
32	D	407[B]	LHG	C2-C3-O3-P
32	D	407[A]	LHG	C27-C28-C29-C30
32	b	629[A]	LHG	C34-C35-C36-C37
34	o	301	HTG	C2'-C3'-C4'-C5'
35	h	102	DGD	CAB-CBB-CCB-CDB
25	H	101	BCR	C23-C24-C25-C26
25	b	619	BCR	C1-C6-C7-C8
26	a	410[B]	SQD	C34-C35-C36-C37
35	C	517[B]	DGD	C3B-C4B-C5B-C6B
25	b	619	BCR	C37-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
25	Y	101	BCR	C21-C22-C23-C24
25	b	619	BCR	C21-C22-C23-C24
23	c	503	CLA	C8-C10-C11-C12
32	A	419[B]	LHG	C18-C19-C20-C21
32	L	101[A]	LHG	C11-C10-C9-C8
26	A	410[A]	SQD	C18-C19-C20-C21
32	a	420[A]	LHG	C7-C8-C9-C10
31	A	417	LMT	C9-C10-C11-C12
35	C	518[B]	DGD	C5B-C6B-C7B-C8B
35	C	518[A]	DGD	C5B-C6B-C7B-C8B
35	c	517[B]	DGD	C5A-C6A-C7A-C8A
23	b	616	CLA	O1A-CGA-O2A-C1
31	t	101	LMT	O1'-C1-C2-C3
32	b	629[A]	LHG	C13-C14-C15-C16
33	C	520	LMG	C29-C30-C31-C32
32	L	101[A]	LHG	O6-C4-C5-C6
32	a	420[B]	LHG	C10-C11-C12-C13
32	b	629[B]	LHG	C34-C35-C36-C37
35	C	518[A]	DGD	C8B-C9B-CAB-CBB
23	B	614	CLA	C12-C13-C15-C16
23	C	507	CLA	C6-C7-C8-C10
23	C	511	CLA	C12-C13-C15-C16
23	a	408	CLA	C11-C10-C8-C7
23	b	601	CLA	C6-C7-C8-C10
23	b	604	CLA	C6-C7-C8-C10
23	b	606	CLA	C11-C10-C8-C7
23	c	504	CLA	C11-C12-C13-C15
23	c	509	CLA	C6-C7-C8-C10
23	c	510	CLA	C11-C10-C8-C7
29	A	414[B]	PL9	C12-C11-C9-C8
29	a	413[A]	PL9	C12-C11-C9-C8
32	D	406[A]	LHG	C11-C10-C9-C8
35	c	516[A]	DGD	CCB-CDB-CEB-CFB
23	B	608	CLA	C16-C17-C18-C20
26	a	410[A]	SQD	C27-C28-C29-C30
32	L	101[A]	LHG	C24-C25-C26-C27
33	B	621	LMG	C14-C15-C16-C17
35	C	519	DGD	C6A-C7A-C8A-C9A
32	D	407[A]	LHG	C10-C11-C12-C13
32	d	406[A]	LHG	C13-C14-C15-C16
33	B	621	LMG	C36-C37-C38-C39
23	B	601	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
32	D	406[B]	LHG	C28-C29-C30-C31
33	d	411	LMG	C11-C12-C13-C14
35	C	518[A]	DGD	C7A-C8A-C9A-CAA
23	B	606	CLA	C8-C10-C11-C12
23	B	615	CLA	C13-C15-C16-C17
31	t	101	LMT	C11-C10-C9-C8
34	b	623	HTG	O5-C1-S1-C1'
32	D	407[B]	LHG	O10-C23-O8-C6
23	B	608	CLA	C16-C17-C18-C19
23	b	616	CLA	C5-C6-C7-C8
31	b	627	LMT	C6-C7-C8-C9
31	F	101	LMT	C6-C7-C8-C9
33	m	101	LMG	C32-C33-C34-C35
35	C	519	DGD	CAB-CBB-CCB-CDB
23	B	610	CLA	C13-C15-C16-C17
23	C	510	CLA	CBD-CGD-O2D-CED
23	B	616	CLA	CAD-CBD-CGD-O2D
23	b	612	CLA	CAD-CBD-CGD-O2D
23	b	616	CLA	CAD-CBD-CGD-O2D
23	c	501	CLA	CAD-CBD-CGD-O2D
23	c	512	CLA	CAD-CBD-CGD-O2D
24	A	407[B]	PHO	CAD-CBD-CGD-O2D
24	a	407[A]	PHO	CAD-CBD-CGD-O2D
26	b	620	SQD	C46-C45-O47-C7
38	f	101	HEM	C2B-C3B-CAB-CBB
23	c	512	CLA	C13-C15-C16-C17
35	C	518[B]	DGD	C3B-C4B-C5B-C6B
35	C	518[B]	DGD	C8B-C9B-CAB-CBB
26	b	620	SQD	O10-C23-O48-C46
29	d	405[A]	PL9	C45-C44-C46-C47
26	a	410[A]	SQD	C34-C35-C36-C37
35	c	517[A]	DGD	O6E-C1E-O5D-C6D
35	c	517[B]	DGD	O6E-C1E-O5D-C6D
24	A	416[A]	PHO	C2C-C3C-CAC-CBC
26	a	411	SQD	O6-C44-C45-C46
26	b	620	SQD	C44-C45-C46-O48
33	C	501	LMG	C7-C8-C9-O8
32	E	101[A]	LHG	O6-C4-C5-O7
32	L	101[A]	LHG	O6-C4-C5-O7
32	L	101[B]	LHG	O6-C4-C5-O7
23	C	511	CLA	C8-C10-C11-C12
23	a	404[B]	CLA	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
33	a	416	LMG	C21-C22-C23-C24
23	B	601	CLA	CHA-CBD-CGD-O1D
23	B	601	CLA	CHA-CBD-CGD-O2D
23	B	614	CLA	CHA-CBD-CGD-O2D
23	C	503	CLA	CHA-CBD-CGD-O1D
23	C	505	CLA	CHA-CBD-CGD-O1D
23	b	601	CLA	CHA-CBD-CGD-O1D
23	c	502	CLA	CHA-CBD-CGD-O1D
23	c	510	CLA	CHA-CBD-CGD-O1D
33	C	521	LMG	C4-C5-C6-O5
23	C	511	CLA	O1A-CGA-O2A-C1
33	c	520	LMG	O10-C28-O8-C9
32	b	629[B]	LHG	C17-C18-C19-C20
33	Z	101	LMG	C2-C1-O1-C7
35	c	516[A]	DGD	C2E-C1E-O5D-C6D
35	c	516[B]	DGD	C2E-C1E-O5D-C6D
35	c	517[A]	DGD	C2E-C1E-O5D-C6D
35	c	517[B]	DGD	C2E-C1E-O5D-C6D
32	A	419[A]	LHG	C32-C33-C34-C35
35	C	519	DGD	C9A-CAA-CBA-CCA
26	B	620	SQD	O47-C45-C46-O48
26	f	102	SQD	O47-C45-C46-O48
32	a	420[A]	LHG	O7-C5-C6-O8
33	B	621	LMG	O1-C7-C8-O7
26	A	410[A]	SQD	C34-C35-C36-C37
33	C	501	LMG	C18-C19-C20-C21
27	B	623	GOL	O1-C1-C2-O2
27	c	526	GOL	O1-C1-C2-O2
32	A	419[B]	LHG	O1-C1-C2-O2
32	d	406[A]	LHG	C11-C10-C9-C8
32	d	407[A]	LHG	C9-C10-C11-C12
23	B	602	CLA	C3-C5-C6-C7
33	C	520	LMG	C36-C37-C38-C39
29	a	413[B]	PL9	C12-C11-C9-C8
29	D	405[B]	PL9	C4-C3-C7-C8
32	d	413[B]	LHG	C13-C14-C15-C16
23	c	509	CLA	C6-C7-C8-C9
23	c	510	CLA	C11-C10-C8-C9
26	A	412	SQD	C30-C31-C32-C33
31	A	417	LMT	C7-C8-C9-C10
31	B	627	LMT	C7-C8-C9-C10
31	B	631	LMT	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
35	H	102	DGD	CAB-CBB-CCB-CDB
26	a	411	SQD	C14-C15-C16-C17
33	C	501	LMG	C11-C12-C13-C14
25	d	404	BCR	C21-C22-C23-C24
32	d	413[A]	LHG	C18-C19-C20-C21
33	z	101	LMG	C13-C14-C15-C16
23	C	514	CLA	C1A-C2A-CAA-CBA
23	a	405[A]	CLA	C1A-C2A-CAA-CBA
32	d	406[A]	LHG	C16-C17-C18-C19
23	b	613	CLA	CBD-CGD-O2D-CED
33	C	501	LMG	C29-C30-C31-C32
23	C	508	CLA	C13-C15-C16-C17
31	B	627	LMT	C9-C10-C11-C12
32	a	420[B]	LHG	C7-C8-C9-C10
26	a	410[A]	SQD	C35-C36-C37-C38
35	c	516[B]	DGD	C7B-C8B-C9B-CAB
29	d	405[B]	PL9	C45-C44-C46-C47
23	a	405[B]	CLA	C15-C16-C17-C18
32	D	407[A]	LHG	C2-C3-O3-P
32	d	407[B]	LHG	C2-C3-O3-P
29	A	414[B]	PL9	C28-C29-C31-C32
32	D	406[A]	LHG	C4-O6-P-O5
32	E	101[A]	LHG	C4-O6-P-O5
32	E	101[B]	LHG	C4-O6-P-O5
32	a	420[A]	LHG	C4-O6-P-O4
32	a	420[B]	LHG	C4-O6-P-O4
23	A	406[B]	CLA	C16-C17-C18-C20
23	C	507	CLA	C16-C17-C18-C20
32	D	406[B]	LHG	O6-C4-C5-C6
32	E	101[A]	LHG	O6-C4-C5-C6
32	b	629[B]	LHG	O6-C4-C5-C6
26	A	410[B]	SQD	C34-C35-C36-C37
32	E	101[B]	LHG	C13-C14-C15-C16
23	b	607	CLA	C3-C5-C6-C7
26	f	102	SQD	C28-C29-C30-C31
32	L	101[A]	LHG	C26-C27-C28-C29
32	b	629[B]	LHG	C28-C29-C30-C31
34	B	624	HTG	C2'-C3'-C4'-C5'
31	a	417	LMT	C4'-C5'-C6'-O6'
31	A	420	LMT	C7-C8-C9-C10
32	A	419[B]	LHG	C32-C33-C34-C35
33	B	621	LMG	C18-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
33	c	519	LMG	C29-C30-C31-C32
35	c	517[A]	DGD	C7B-C8B-C9B-CAB
23	B	601	CLA	CAD-CBD-CGD-O1D
23	C	503	CLA	CAD-CBD-CGD-O1D
23	C	505	CLA	CAD-CBD-CGD-O1D
23	c	502	CLA	CAD-CBD-CGD-O1D
31	M	101	LMT	C2-C3-C4-C5
35	C	517[A]	DGD	C6A-C7A-C8A-C9A
34	b	625	HTG	C4-C5-C6-O6
35	C	518[B]	DGD	C1A-C2A-C3A-C4A
33	C	501	LMG	C20-C21-C22-C23
26	A	412	SQD	C24-C23-O48-C46
32	d	406[B]	LHG	C9-C10-C11-C12
23	A	406[A]	CLA	C12-C13-C15-C16
23	A	406[B]	CLA	C12-C13-C15-C16
23	B	602	CLA	C6-C7-C8-C10
23	B	616	CLA	C12-C13-C15-C16
23	C	503	CLA	C12-C13-C15-C16
23	C	507	CLA	C12-C13-C15-C16
23	b	603	CLA	C11-C10-C8-C7
23	b	615	CLA	C12-C13-C15-C16
23	c	505	CLA	C12-C13-C15-C16
23	c	509	CLA	C11-C10-C8-C7
23	d	402[A]	CLA	C11-C12-C13-C15
26	A	410[A]	SQD	C13-C14-C15-C16
31	e	101	LMT	O1'-C1-C2-C3
33	a	416	LMG	C33-C34-C35-C36
35	C	518[B]	DGD	C7A-C8A-C9A-CAA
32	D	406[A]	LHG	C34-C35-C36-C37
32	d	413[B]	LHG	C17-C18-C19-C20
35	c	517[A]	DGD	C5A-C6A-C7A-C8A
23	b	612	CLA	C8-C10-C11-C12
32	E	101[B]	LHG	C17-C18-C19-C20
26	B	620	SQD	C44-C45-C46-O48
26	b	620	SQD	C28-C29-C30-C31
33	C	521	LMG	C12-C13-C14-C15
35	C	519	DGD	C8B-C9B-CAB-CBB
26	F	103	SQD	O47-C45-C46-O48
32	E	101[A]	LHG	O7-C5-C6-O8
32	a	420[B]	LHG	O7-C5-C6-O8
33	a	416	LMG	O7-C8-C9-O8
32	d	407[A]	LHG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
33	d	411	LMG	C18-C19-C20-C21
35	C	518[A]	DGD	C8A-C9A-CAA-CBA
35	C	519	DGD	C7B-C8B-C9B-CAB
35	C	518[A]	DGD	C5D-C6D-O5D-C1E
35	c	517[B]	DGD	C2G-C3G-O3G-C1D
34	c	521	HTG	C4'-C5'-C6'-C7'
32	d	407[A]	LHG	C2-C3-O3-P
23	b	615	CLA	C13-C15-C16-C17
23	c	506	CLA	C10-C11-C12-C13
23	b	601	CLA	CAA-CBA-CGA-O2A
35	H	102	DGD	O2G-C1B-C2B-C3B
32	d	413[A]	LHG	C34-C35-C36-C37
35	C	519	DGD	CDA-CEA-CFA-CGA
23	B	613	CLA	C15-C16-C17-C18
23	c	506	CLA	C13-C15-C16-C17
23	A	408	CLA	C11-C12-C13-C14
23	C	511	CLA	C14-C13-C15-C16
23	a	408	CLA	C11-C10-C8-C9
23	c	506	CLA	C11-C10-C8-C9
23	c	513	CLA	C6-C7-C8-C9
23	d	402[B]	CLA	C11-C12-C13-C14
23	d	403	CLA	C11-C12-C13-C14
26	B	620	SQD	C24-C25-C26-C27
32	D	406[A]	LHG	C26-C27-C28-C29
33	D	411	LMG	C18-C19-C20-C21
23	b	604	CLA	C13-C15-C16-C17
23	b	612	CLA	C10-C11-C12-C13
23	c	509	CLA	C15-C16-C17-C18
26	a	411	SQD	C24-C25-C26-C27
34	B	624	HTG	C4'-C5'-C6'-C7'
35	C	518[A]	DGD	C7B-C8B-C9B-CAB
32	d	413[A]	LHG	C11-C12-C13-C14
25	d	404	BCR	C7-C8-C9-C34
34	d	410	HTG	S1-C1'-C2'-C3'
31	t	101	LMT	C2-C3-C4-C5
26	f	102	SQD	C34-C35-C36-C37
32	D	407[B]	LHG	C10-C11-C12-C13
33	Z	101	LMG	C21-C22-C23-C24
23	B	601	CLA	CAA-CBA-CGA-O2A
26	a	411	SQD	C26-C27-C28-C29
26	A	412	SQD	O10-C23-O48-C46
29	a	413[A]	PL9	C43-C44-C46-C47

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Mol	Chain	Res	Type	Atoms
29	a	413[B]	PL9	C43-C44-C46-C47
32	L	101[A]	LHG	C23-C24-C25-C26
26	a	410[B]	SQD	C27-C28-C29-C30
31	a	417	LMT	C7-C8-C9-C10
32	D	406[A]	LHG	C13-C14-C15-C16
33	B	621	LMG	C20-C21-C22-C23
32	b	629[A]	LHG	C28-C29-C30-C31
23	C	508	CLA	C2A-CAA-CBA-CGA
23	a	404[B]	CLA	C2A-CAA-CBA-CGA
23	c	513	CLA	C2-C1-O2A-CGA
23	d	402[B]	CLA	C2-C1-O2A-CGA
35	c	517[B]	DGD	C5B-C6B-C7B-C8B
26	A	412	SQD	C15-C16-C17-C18
23	D	403	CLA	O1A-CGA-O2A-C1
32	b	629[B]	LHG	O6-C4-C5-O7
23	c	512	CLA	O1D-CGD-O2D-CED
23	B	613	CLA	C13-C15-C16-C17
23	c	507	CLA	C5-C6-C7-C8
25	B	617	BCR	C1-C6-C7-C8
25	H	101	BCR	C23-C24-C25-C30
29	A	414[A]	PL9	C28-C29-C31-C32
32	d	407[A]	LHG	C10-C11-C12-C13
26	a	411	SQD	C15-C16-C17-C18
23	B	612	CLA	C10-C11-C12-C13
31	B	631	LMT	C1-C2-C3-C4
26	A	410[B]	SQD	C11-C10-C9-C8
26	B	620	SQD	C9-C10-C11-C12
35	H	102	DGD	C6A-C7A-C8A-C9A
33	C	521	LMG	C10-C11-C12-C13
26	a	410[B]	SQD	C35-C36-C37-C38
32	E	101[B]	LHG	O7-C5-C6-O8
33	m	101	LMG	C11-C12-C13-C14
32	d	413[B]	LHG	C3-O3-P-O6
32	b	629[B]	LHG	C9-C10-C11-C12
35	c	516[B]	DGD	CBA-CCA-CDA-CEA
35	h	102	DGD	C6A-C7A-C8A-C9A
26	A	410[A]	SQD	C16-C17-C18-C19
33	B	621	LMG	O1-C7-C8-C9
26	b	620	SQD	C33-C34-C35-C36
32	L	101[B]	LHG	C11-C10-C9-C8
23	b	610	CLA	C13-C15-C16-C17
23	a	405[A]	CLA	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
32	D	406[B]	LHG	C12-C13-C14-C15
23	A	406[A]	CLA	C14-C13-C15-C16
23	A	406[B]	CLA	C14-C13-C15-C16
23	B	610	CLA	C14-C13-C15-C16
23	B	614	CLA	C11-C10-C8-C9
23	C	511	CLA	C11-C12-C13-C14
23	b	603	CLA	C11-C10-C8-C9
23	b	615	CLA	C14-C13-C15-C16
23	d	402[A]	CLA	C11-C12-C13-C14
32	D	406[A]	LHG	C28-C29-C30-C31
33	z	101	LMG	C10-C11-C12-C13
33	c	520	LMG	C31-C32-C33-C34
33	a	416	LMG	C31-C32-C33-C34
23	C	502	CLA	C2A-CAA-CBA-CGA
32	D	406[B]	LHG	C9-C10-C11-C12
32	L	101[B]	LHG	C24-C25-C26-C27
23	a	408	CLA	C15-C16-C17-C18
31	M	103	LMT	C9-C10-C11-C12
32	A	419[A]	LHG	O1-C1-C2-C3
23	b	615	CLA	C10-C11-C12-C13
25	K	102	BCR	C7-C8-C9-C10
25	d	404	BCR	C7-C8-C9-C10
33	C	521	LMG	C38-C39-C40-C41
32	D	406[B]	LHG	C1-C2-C3-O3
23	a	405[A]	CLA	C15-C16-C17-C18
23	c	504	CLA	C4-C3-C5-C6
29	d	405[B]	PL9	C28-C29-C31-C32
26	F	103	SQD	C24-C23-O48-C46
33	c	519	LMG	C32-C33-C34-C35
26	a	410[A]	SQD	C11-C12-C13-C14
35	h	102	DGD	O2G-C1B-C2B-C3B
23	A	405[B]	CLA	C13-C15-C16-C17
32	D	407[A]	LHG	O10-C23-O8-C6
32	D	407[A]	LHG	C24-C23-O8-C6
33	m	101	LMG	O6-C1-O1-C7
32	d	406[B]	LHG	O6-C4-C5-C6
23	A	404[B]	CLA	C2C-C3C-CAC-CBC
23	B	604	CLA	C4C-C3C-CAC-CBC
33	B	621	LMG	O8-C28-C29-C30
23	b	601	CLA	C3-C5-C6-C7
26	a	411	SQD	C33-C34-C35-C36
32	a	420[B]	LHG	C24-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
23	C	507	CLA	C4-C3-C5-C6
24	a	407[A]	PHO	C4-C3-C5-C6
23	B	601	CLA	C13-C15-C16-C17
24	a	407[A]	PHO	C2-C3-C5-C6
26	a	410[B]	SQD	C11-C12-C13-C14
23	B	604	CLA	C2C-C3C-CAC-CBC
23	A	408	CLA	C2-C1-O2A-CGA
23	B	608	CLA	C2-C1-O2A-CGA
26	A	410[B]	SQD	C18-C19-C20-C21
23	A	404[B]	CLA	C2A-CAA-CBA-CGA
33	c	520	LMG	O1-C7-C8-O7
35	C	518[B]	DGD	C8A-C9A-CAA-CBA
35	c	516[A]	DGD	C4B-C5B-C6B-C7B
33	Z	101	LMG	C29-C28-O8-C9
23	b	605	CLA	C13-C15-C16-C17
23	B	616	CLA	C16-C17-C18-C20
23	a	405[B]	CLA	C2C-C3C-CAC-CBC
33	z	101	LMG	O7-C10-C11-C12
32	d	406[A]	LHG	C9-C10-C11-C12
32	D	406[A]	LHG	C17-C18-C19-C20
23	b	601	CLA	C4-C3-C5-C6
29	D	405[B]	PL9	C45-C44-C46-C47
33	c	519	LMG	C28-C29-C30-C31
29	A	414[B]	PL9	C4-C3-C7-C8
29	a	413[A]	PL9	C4-C3-C7-C8
29	a	413[B]	PL9	C4-C3-C7-C8
23	B	610	CLA	C11-C12-C13-C14
23	B	614	CLA	C6-C7-C8-C9
23	C	510	CLA	C6-C7-C8-C9
23	a	406[A]	CLA	C14-C13-C15-C16
23	c	505	CLA	C14-C13-C15-C16
23	A	408	CLA	C16-C17-C18-C19
38	F	102	HEM	CAD-CBD-CGD-O1D
23	D	403	CLA	CBA-CGA-O2A-C1
32	b	629[A]	LHG	C10-C11-C12-C13
23	B	615	CLA	C8-C10-C11-C12
23	c	507	CLA	C8-C10-C11-C12
32	d	413[A]	LHG	C1-C2-C3-O3
35	H	102	DGD	O1G-C1G-C2G-C3G
23	b	605	CLA	C3-C5-C6-C7
35	C	519	DGD	C7A-C8A-C9A-CAA
26	a	410[A]	SQD	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
26	a	411	SQD	C16-C17-C18-C19
32	E	101[A]	LHG	C12-C13-C14-C15
23	B	616	CLA	C16-C17-C18-C19
24	A	407[A]	PHO	O2A-C1-C2-C3
24	a	407[A]	PHO	O2A-C1-C2-C3
23	b	613	CLA	O1D-CGD-O2D-CED
35	C	517[B]	DGD	O6E-C1E-O5D-C6D
35	c	516[A]	DGD	CBA-CCA-CDA-CEA
25	K	102	BCR	C7-C8-C9-C34
23	C	510	CLA	C3-C5-C6-C7
33	C	521	LMG	C20-C21-C22-C23
29	a	413[A]	PL9	C45-C44-C46-C47
29	a	413[B]	PL9	C45-C44-C46-C47
23	a	406[A]	CLA	C1A-C2A-CAA-CBA
23	c	511	CLA	C1A-C2A-CAA-CBA
23	C	506	CLA	C12-C13-C15-C16
23	b	601	CLA	C11-C12-C13-C15
23	b	608	CLA	C12-C13-C15-C16
23	b	615	CLA	C11-C12-C13-C15
23	A	405[B]	CLA	C2C-C3C-CAC-CBC
31	b	627	LMT	O1'-C1-C2-C3
31	e	101	LMT	C3-C4-C5-C6
32	A	419[A]	LHG	C29-C30-C31-C32
32	L	101[A]	LHG	C10-C11-C12-C13
35	C	519	DGD	CBA-CCA-CDA-CEA
38	f	101	HEM	CAD-CBD-CGD-O1D
32	D	406[B]	LHG	C34-C35-C36-C37
31	F	101	LMT	C2-C3-C4-C5
23	C	504	CLA	C8-C10-C11-C12
23	b	608	CLA	C16-C17-C18-C20
38	F	102	HEM	CAD-CBD-CGD-O2D
40	V	201	HEC	CAD-CBD-CGD-O1D
23	b	616	CLA	C4-C3-C5-C6
35	c	516[B]	DGD	C4B-C5B-C6B-C7B
32	L	101[B]	LHG	O9-C7-O7-C5
33	C	501	LMG	O7-C8-C9-O8
26	f	102	SQD	C11-C10-C9-C8
32	a	420[A]	LHG	C24-C25-C26-C27
32	d	413[A]	LHG	C27-C28-C29-C30
23	A	406[A]	CLA	C16-C17-C18-C19
32	d	413[A]	LHG	C17-C18-C19-C20
26	F	103	SQD	O10-C23-O48-C46

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Mol	Chain	Res	Type	Atoms
40	V	201	HEC	CAD-CBD-CGD-O2D
32	d	406[A]	LHG	C25-C26-C27-C28
23	c	513	CLA	C4-C3-C5-C6
23	B	613	CLA	C2-C1-O2A-CGA
23	a	404[A]	CLA	C2-C1-O2A-CGA
23	c	512	CLA	C2-C1-O2A-CGA
23	b	601	CLA	C2-C3-C5-C6
29	d	405[A]	PL9	C43-C44-C46-C47
23	b	615	CLA	C5-C6-C7-C8
23	C	513	CLA	C11-C10-C8-C9
23	c	510	CLA	O1A-CGA-O2A-C1
33	a	416	LMG	O8-C28-C29-C30
23	B	612	CLA	O1A-CGA-O2A-C1
25	B	617	BCR	C5-C6-C7-C8
25	C	515	BCR	C1-C6-C7-C8
25	Y	101	BCR	C23-C24-C25-C30
25	a	409	BCR	C1-C6-C7-C8
25	c	514	BCR	C23-C24-C25-C30
25	d	404	BCR	C23-C24-C25-C26
25	d	404	BCR	C23-C24-C25-C30
25	h	101	BCR	C23-C24-C25-C30
25	t	102	BCR	C5-C6-C7-C8
35	C	519	DGD	CCB-CDB-CEB-CFB
26	A	412	SQD	C7-C8-C9-C10
23	C	512	CLA	O1A-CGA-O2A-C1
23	c	510	CLA	C4-C3-C5-C6
29	D	405[B]	PL9	C35-C34-C36-C37
32	d	413[A]	LHG	C9-C10-C11-C12
23	b	611	CLA	C2-C3-C5-C6
29	A	414[A]	PL9	C43-C44-C46-C47
35	c	516[B]	DGD	C5D-C6D-O5D-C1E
32	A	419[A]	LHG	C17-C18-C19-C20
35	C	519	DGD	O1A-C1A-O1G-C1G
35	c	517[B]	DGD	CBB-CCB-CDB-CEB
23	C	502	CLA	C16-C17-C18-C20
33	B	621	LMG	C37-C38-C39-C40
35	c	516[A]	DGD	CDB-CEB-CFB-CGB
23	b	608	CLA	C13-C15-C16-C17
32	D	406[B]	LHG	O6-C4-C5-O7
32	d	406[B]	LHG	O6-C4-C5-O7
32	d	413[B]	LHG	C27-C28-C29-C30
35	c	517[A]	DGD	C1A-C2A-C3A-C4A

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Mol	Chain	Res	Type	Atoms
29	D	405[A]	PL9	C35-C34-C36-C37
31	A	417	LMT	C2B-C1B-O1B-C4'
23	B	603	CLA	C11-C12-C13-C15
23	B	613	CLA	C11-C12-C13-C15
23	C	513	CLA	C11-C10-C8-C7
23	b	614	CLA	C12-C13-C15-C16
23	c	502	CLA	C11-C12-C13-C15
23	c	510	CLA	C2-C3-C5-C6
35	C	519	DGD	C4A-C5A-C6A-C7A
35	c	518	DGD	CDB-CEB-CFB-CGB
34	b	623	HTG	S1-C1'-C2'-C3'
27	A	418	GOL	O1-C1-C2-O2
35	C	517[B]	DGD	C2E-C1E-O5D-C6D
32	b	629[A]	LHG	C25-C26-C27-C28
26	b	620	SQD	C30-C31-C32-C33
33	d	411	LMG	C19-C20-C21-C22
23	B	602	CLA	C8-C10-C11-C12
23	C	509	CLA	C13-C15-C16-C17
23	b	612	CLA	C13-C15-C16-C17
38	f	101	HEM	CAA-CBA-CGA-O2A
32	A	419[A]	LHG	O8-C23-C24-C25
32	A	419[B]	LHG	O8-C23-C24-C25
26	A	412	SQD	C25-C26-C27-C28
31	e	101	LMT	C2B-C1B-O1B-C4'
40	v	201	HEC	CAD-CBD-CGD-O2D
23	B	612	CLA	CBA-CGA-O2A-C1
24	A	416[B]	PHO	C4C-C3C-CAC-CBC
34	c	521	HTG	C2'-C1'-S1-C1
23	C	513	CLA	CAA-CBA-CGA-O2A
32	a	420[B]	LHG	O8-C23-C24-C25
32	b	629[B]	LHG	O7-C7-C8-C9
23	B	614	CLA	C4-C3-C5-C6
29	A	414[A]	PL9	C25-C24-C26-C27
23	b	616	CLA	C2-C3-C5-C6
29	D	405[B]	PL9	C18-C19-C21-C22
29	D	405[B]	PL9	C43-C44-C46-C47
33	c	520	LMG	C28-C29-C30-C31
23	C	511	CLA	CAA-CBA-CGA-O2A
35	C	519	DGD	O6D-C5D-C6D-O5D
23	A	404[B]	CLA	C4C-C3C-CAC-CBC
23	B	616	CLA	C14-C13-C15-C16
23	C	506	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	C	514	CLA	C6-C7-C8-C9
23	a	406[A]	CLA	C6-C7-C8-C9
23	a	406[B]	CLA	C6-C7-C8-C9
23	b	608	CLA	C14-C13-C15-C16
35	c	518	DGD	O6D-C5D-C6D-O5D
32	a	420[A]	LHG	O8-C23-C24-C25
33	a	416	LMG	O6-C5-C6-O5
23	B	603	CLA	CAD-CBD-CGD-O2D
23	B	604	CLA	CAD-CBD-CGD-O2D
23	B	610	CLA	CAD-CBD-CGD-O2D
23	C	504	CLA	CAD-CBD-CGD-O2D
23	C	511	CLA	CAD-CBD-CGD-O2D
23	C	513	CLA	CAD-CBD-CGD-O2D
23	b	604	CLA	CAD-CBD-CGD-O2D
23	b	607	CLA	CAD-CBD-CGD-O2D
23	b	610	CLA	CAD-CBD-CGD-O2D
23	c	510	CLA	CAD-CBD-CGD-O2D
24	A	407[A]	PHO	CAD-CBD-CGD-O2D
24	a	407[B]	PHO	CAD-CBD-CGD-O2D
38	F	102	HEM	C2B-C3B-CAB-CBB
23	C	507	CLA	C16-C17-C18-C19
23	c	504	CLA	C5-C6-C7-C8
32	L	101[A]	LHG	C11-C12-C13-C14
32	L	101[A]	LHG	O7-C7-C8-C9
31	e	101	LMT	C4B-C5B-C6B-O6B
26	A	410[B]	SQD	C23-C24-C25-C26
26	f	102	SQD	C23-C24-C25-C26
32	b	629[B]	LHG	C32-C33-C34-C35
32	d	407[B]	LHG	C33-C34-C35-C36
33	d	411	LMG	C36-C37-C38-C39
29	d	405[B]	PL9	C43-C44-C46-C47
32	L	101[B]	LHG	O7-C7-C8-C9
32	b	629[A]	LHG	O7-C7-C8-C9
33	Z	101	LMG	O7-C10-C11-C12
33	d	411	LMG	C16-C17-C18-C19
33	C	521	LMG	C11-C12-C13-C14
24	A	416[B]	PHO	C2C-C3C-CAC-CBC
24	a	407[A]	PHO	C2C-C3C-CAC-CBC
24	a	415[A]	PHO	C2C-C3C-CAC-CBC
24	a	415[B]	PHO	C2C-C3C-CAC-CBC
33	C	520	LMG	O1-C7-C8-C9
32	E	101[B]	LHG	O6-C4-C5-O7

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Mol	Chain	Res	Type	Atoms
33	m	101	LMG	C29-C30-C31-C32
31	M	103	LMT	C3-C4-C5-C6
23	B	602	CLA	O2A-C1-C2-C3
23	C	510	CLA	O2A-C1-C2-C3
23	b	613	CLA	O2A-C1-C2-C3
24	A	407[B]	PHO	O2A-C1-C2-C3
24	a	407[B]	PHO	O2A-C1-C2-C3
38	F	102	HEM	C4B-C3B-CAB-CBB
38	f	101	HEM	C4B-C3B-CAB-CBB
23	B	611	CLA	C8-C10-C11-C12
38	f	101	HEM	CAA-CBA-CGA-O1A
38	f	101	HEM	CAD-CBD-CGD-O2D
23	a	404[A]	CLA	C2C-C3C-CAC-CBC
23	A	404[A]	CLA	C2C-C3C-CAC-CBC
33	D	411	LMG	C34-C35-C36-C37
23	A	405[A]	CLA	CHA-CBD-CGD-O1D
23	A	405[A]	CLA	CHA-CBD-CGD-O2D
23	B	606	CLA	CHA-CBD-CGD-O1D
23	B	606	CLA	CHA-CBD-CGD-O2D
23	B	607	CLA	CHA-CBD-CGD-O1D
23	C	503	CLA	CHA-CBD-CGD-O2D
23	C	505	CLA	CHA-CBD-CGD-O2D
23	C	508	CLA	CHA-CBD-CGD-O1D
23	C	510	CLA	CHA-CBD-CGD-O1D
23	a	405[A]	CLA	CHA-CBD-CGD-O1D
23	a	405[A]	CLA	CHA-CBD-CGD-O2D
23	a	405[B]	CLA	CHA-CBD-CGD-O2D
23	b	601	CLA	CHA-CBD-CGD-O2D
23	c	502	CLA	CHA-CBD-CGD-O2D
23	c	507	CLA	CHA-CBD-CGD-O1D
23	c	507	CLA	CHA-CBD-CGD-O2D
23	c	509	CLA	CHA-CBD-CGD-O2D
40	v	201	HEC	CAD-CBD-CGD-O1D
32	E	101[B]	LHG	O7-C7-C8-C9
32	d	407[B]	LHG	C32-C33-C34-C35
35	C	517[B]	DGD	C6A-C7A-C8A-C9A
33	C	501	LMG	C13-C14-C15-C16
33	c	519	LMG	O7-C10-C11-C12
33	Z	101	LMG	C19-C20-C21-C22
23	B	614	CLA	C2A-CAA-CBA-CGA
24	A	407[A]	PHO	CHA-CBD-CGD-O2D
24	A	407[B]	PHO	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
24	a	407[A]	PHO	CHA-CBD-CGD-O1D
27	d	412	GOL	O1-C1-C2-O2
27	l	801[B]	GOL	O1-C1-C2-O2
32	A	419[A]	LHG	O1-C1-C2-O2
35	C	517[B]	DGD	C2A-C1A-O1G-C1G
32	E	101[B]	LHG	C11-C10-C9-C8
23	b	613	CLA	CAA-CBA-CGA-O2A
34	b	623	HTG	C4'-C5'-C6'-C7'
23	B	601	CLA	C11-C12-C13-C15
23	a	405[A]	CLA	C11-C12-C13-C15
24	A	407[B]	PHO	C6-C7-C8-C10
29	A	414[A]	PL9	C4-C3-C7-C8
23	D	403	CLA	C8-C10-C11-C12
23	c	510	CLA	CAA-CBA-CGA-O2A
32	d	413[A]	LHG	C30-C31-C32-C33
23	A	408	CLA	C14-C13-C15-C16
23	B	601	CLA	C11-C12-C13-C14
23	B	603	CLA	C11-C12-C13-C14
23	C	505	CLA	C11-C12-C13-C14
23	b	601	CLA	C11-C12-C13-C14
23	c	513	CLA	C14-C13-C15-C16
29	d	405[A]	PL9	C34-C36-C37-C38
33	C	520	LMG	C35-C36-C37-C38
26	b	620	SQD	C16-C17-C18-C19
23	a	404[A]	CLA	C4C-C3C-CAC-CBC
32	d	407[B]	LHG	C11-C10-C9-C8
35	C	517[B]	DGD	O1A-C1A-O1G-C1G
32	L	101[B]	LHG	C11-C12-C13-C14
29	A	414[B]	PL9	C46-C47-C48-C49
29	d	405[B]	PL9	C11-C12-C13-C14
23	B	613	CLA	CAA-CBA-CGA-O2A
23	C	513	CLA	CAA-CBA-CGA-O1A
27	A	418	GOL	O1-C1-C2-C3
27	B	626	GOL	O1-C1-C2-C3
27	V	203[B]	GOL	O1-C1-C2-C3
27	l	801[B]	GOL	C1-C2-C3-O3
32	D	407[B]	LHG	C26-C27-C28-C29
25	y	101	BCR	C21-C22-C23-C24
23	a	406[B]	CLA	C1A-C2A-CAA-CBA
32	A	419[B]	LHG	O10-C23-C24-C25
32	b	629[A]	LHG	O9-C7-C8-C9
32	b	629[B]	LHG	O9-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
38	F	102	HEM	CAA-CBA-CGA-O1A
23	b	604	CLA	C2C-C3C-CAC-CBC
23	A	404[A]	CLA	C4C-C3C-CAC-CBC
32	d	406[B]	LHG	C30-C31-C32-C33
23	c	510	CLA	CBA-CGA-O2A-C1
35	C	519	DGD	C2A-C1A-O1G-C1G
32	A	419[A]	LHG	O10-C23-C24-C25
32	E	101[B]	LHG	O9-C7-C8-C9
32	L	101[A]	LHG	O9-C7-C8-C9
32	a	420[A]	LHG	O10-C23-C24-C25
32	a	420[B]	LHG	O10-C23-C24-C25
35	C	517[A]	DGD	C3A-C4A-C5A-C6A
26	F	103	SQD	C44-C45-C46-O48
32	E	101[A]	LHG	O7-C7-C8-C9
35	C	519	DGD	C8A-C9A-CAA-CBA
23	b	611	CLA	C13-C15-C16-C17
33	a	416	LMG	C13-C14-C15-C16
33	c	520	LMG	C39-C40-C41-C42
29	A	414[B]	PL9	C45-C44-C46-C47
23	c	512	CLA	CAA-CBA-CGA-O2A
23	B	605	CLA	C8-C10-C11-C12
23	B	601	CLA	C3-C5-C6-C7
23	C	511	CLA	CAA-CBA-CGA-O1A
33	C	520	LMG	C12-C13-C14-C15
32	d	406[A]	LHG	C4-O6-P-O5
32	d	413[B]	LHG	C3-O3-P-O5
33	Z	101	LMG	O9-C10-C11-C12
26	a	411	SQD	O48-C23-C24-C25
31	e	101	LMT	C2-C3-C4-C5
25	c	514	BCR	C23-C24-C25-C26
25	h	101	BCR	C23-C24-C25-C26
33	c	519	LMG	O9-C10-C11-C12
23	c	501	CLA	CAA-CBA-CGA-O2A
23	b	604	CLA	C4C-C3C-CAC-CBC
23	b	608	CLA	C16-C17-C18-C19
32	d	407[A]	LHG	O10-C23-O8-C6
32	A	419[A]	LHG	C18-C19-C20-C21
23	b	611	CLA	C4-C3-C5-C6
29	d	405[A]	PL9	C15-C14-C16-C17
32	d	407[A]	LHG	C30-C31-C32-C33
29	d	405[A]	PL9	C11-C12-C13-C14
33	c	519	LMG	C35-C36-C37-C38

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Mol	Chain	Res	Type	Atoms
35	c	517[A]	DGD	CDA-CEA-CFA-CGA
23	A	405[B]	CLA	CAD-CBD-CGD-O1D
23	B	605	CLA	CAD-CBD-CGD-O1D
23	B	607	CLA	CAD-CBD-CGD-O1D
23	B	609	CLA	CAD-CBD-CGD-O1D
23	C	507	CLA	CAD-CBD-CGD-O1D
23	a	405[B]	CLA	CAD-CBD-CGD-O1D
23	b	601	CLA	CAD-CBD-CGD-O1D
23	b	605	CLA	CAD-CBD-CGD-O1D
23	b	609	CLA	CAD-CBD-CGD-O1D
23	c	504	CLA	CAD-CBD-CGD-O1D
23	c	506	CLA	CAD-CBD-CGD-O1D
26	f	102	SQD	O5-C5-C6-S
23	B	613	CLA	CAA-CBA-CGA-O1A
23	c	512	CLA	CAA-CBA-CGA-O1A
32	L	101[B]	LHG	O9-C7-C8-C9
33	C	520	LMG	C15-C16-C17-C18
32	E	101[A]	LHG	O8-C23-C24-C25
33	C	520	LMG	O7-C10-C11-C12
35	C	518[A]	DGD	O2G-C1B-C2B-C3B
23	C	512	CLA	C8-C10-C11-C12
23	B	612	CLA	C11-C10-C8-C9
23	B	615	CLA	C14-C13-C15-C16
23	a	405[A]	CLA	C11-C12-C13-C14
23	a	406[B]	CLA	C14-C13-C15-C16
23	c	502	CLA	C11-C12-C13-C14
32	A	419[A]	LHG	C30-C31-C32-C33
26	B	620	SQD	C11-C12-C13-C14
32	D	407[A]	LHG	C28-C29-C30-C31
33	D	411	LMG	O7-C10-C11-C12
33	c	520	LMG	O7-C10-C11-C12
23	b	602	CLA	C8-C10-C11-C12
38	F	102	HEM	CAA-CBA-CGA-O2A
35	C	517[A]	DGD	CBA-CCA-CDA-CEA
32	L	101[A]	LHG	C32-C33-C34-C35
23	b	602	CLA	C2A-CAA-CBA-CGA
26	A	410[B]	SQD	C13-C14-C15-C16
32	D	407[A]	LHG	O8-C23-C24-C25
32	D	407[B]	LHG	O8-C23-C24-C25
32	E	101[B]	LHG	O8-C23-C24-C25
35	c	516[B]	DGD	O2G-C1B-C2B-C3B
26	a	411	SQD	C18-C19-C20-C21

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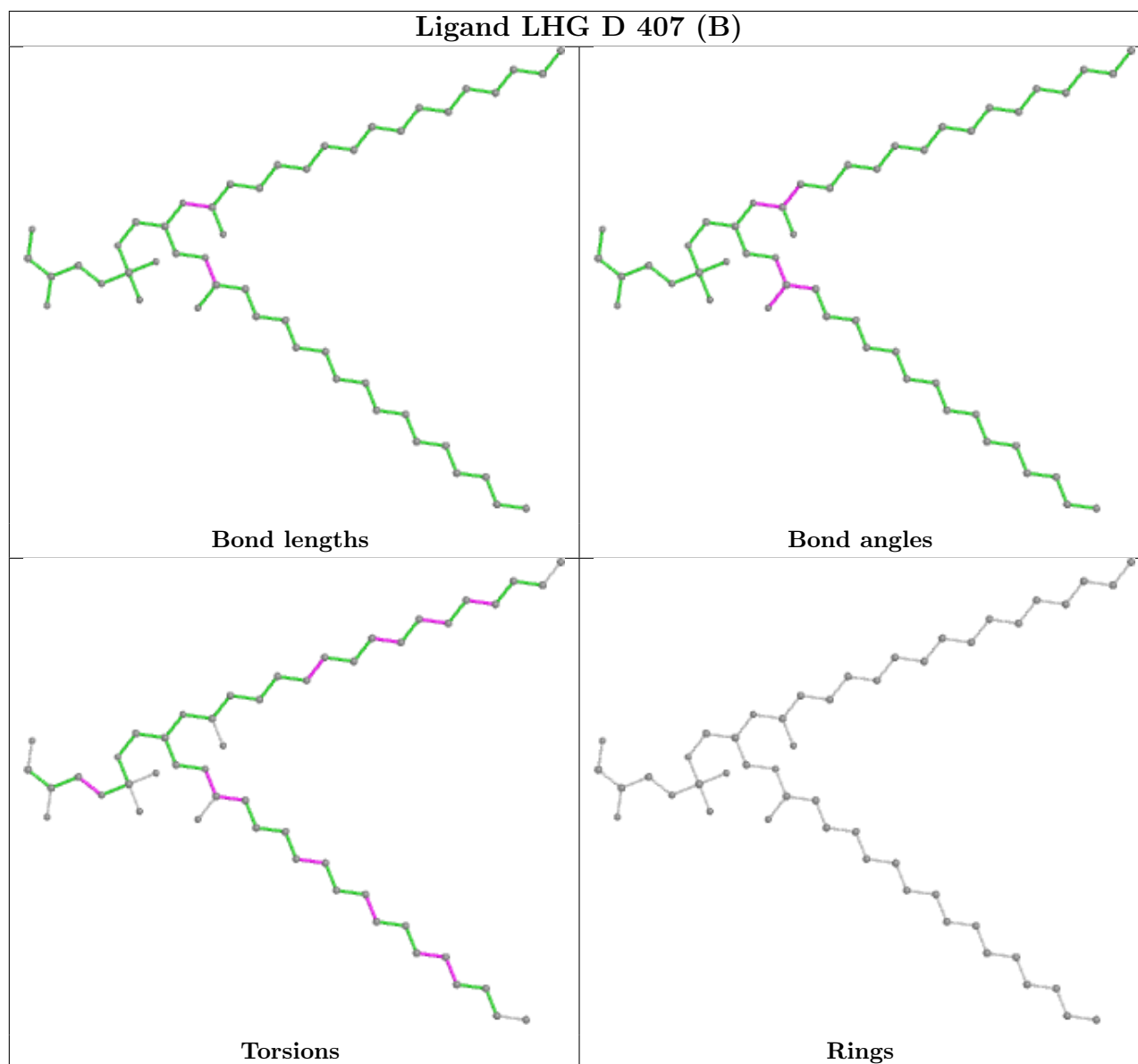
Mol	Chain	Res	Type	Atoms
33	B	621	LMG	C30-C31-C32-C33
23	C	502	CLA	C11-C12-C13-C15
23	C	507	CLA	C2-C3-C5-C6
23	C	508	CLA	C11-C12-C13-C15
23	a	406[A]	CLA	C6-C7-C8-C10
23	b	614	CLA	C11-C10-C8-C7
23	c	504	CLA	C2-C3-C5-C6
23	c	508	CLA	C12-C13-C15-C16
23	c	513	CLA	C12-C13-C15-C16
32	E	101[A]	LHG	O9-C7-C8-C9
32	E	101[A]	LHG	O10-C23-C24-C25
33	D	411	LMG	O9-C10-C11-C12
26	A	412	SQD	O48-C23-C24-C25
35	c	516[A]	DGD	O2G-C1B-C2B-C3B
23	b	612	CLA	O1A-CGA-O2A-C1
26	a	410[B]	SQD	C10-C11-C12-C13
23	c	501	CLA	CAA-CBA-CGA-O1A
32	D	407[A]	LHG	O10-C23-C24-C25
35	c	516[A]	DGD	O1B-C1B-C2B-C3B
31	m	103	LMT	C2-C1-O1'-C1'
32	d	407[B]	LHG	O8-C23-C24-C25
23	c	509	CLA	C8-C10-C11-C12
33	d	411	LMG	C40-C41-C42-C43
35	C	518[A]	DGD	O1B-C1B-C2B-C3B
23	b	603	CLA	C13-C15-C16-C17
32	d	413[A]	LHG	C31-C32-C33-C34
26	a	410[B]	SQD	O47-C7-C8-C9
33	B	621	LMG	O7-C10-C11-C12
23	b	613	CLA	CAA-CBA-CGA-O1A
23	c	510	CLA	CAA-CBA-CGA-O1A
35	C	517[B]	DGD	C3A-C4A-C5A-C6A
24	a	407[B]	PHO	C8-C10-C11-C12
33	C	520	LMG	C40-C41-C42-C43
23	C	503	CLA	C3-C5-C6-C7
26	A	412	SQD	O10-C23-C24-C25
32	E	101[B]	LHG	O10-C23-C24-C25
32	E	101[A]	LHG	C11-C10-C9-C8
32	d	407[A]	LHG	O8-C23-C24-C25

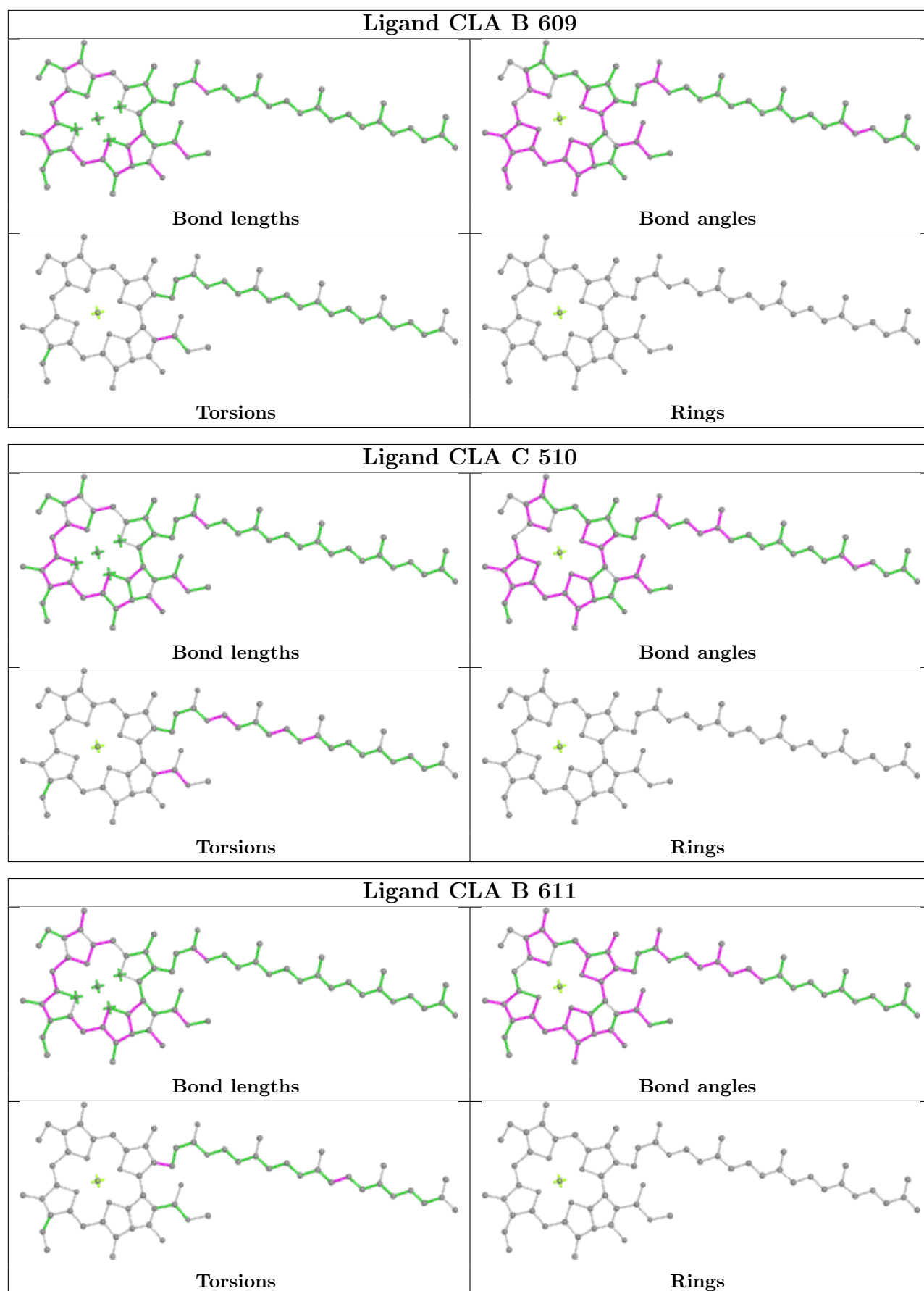
There are no ring outliers.

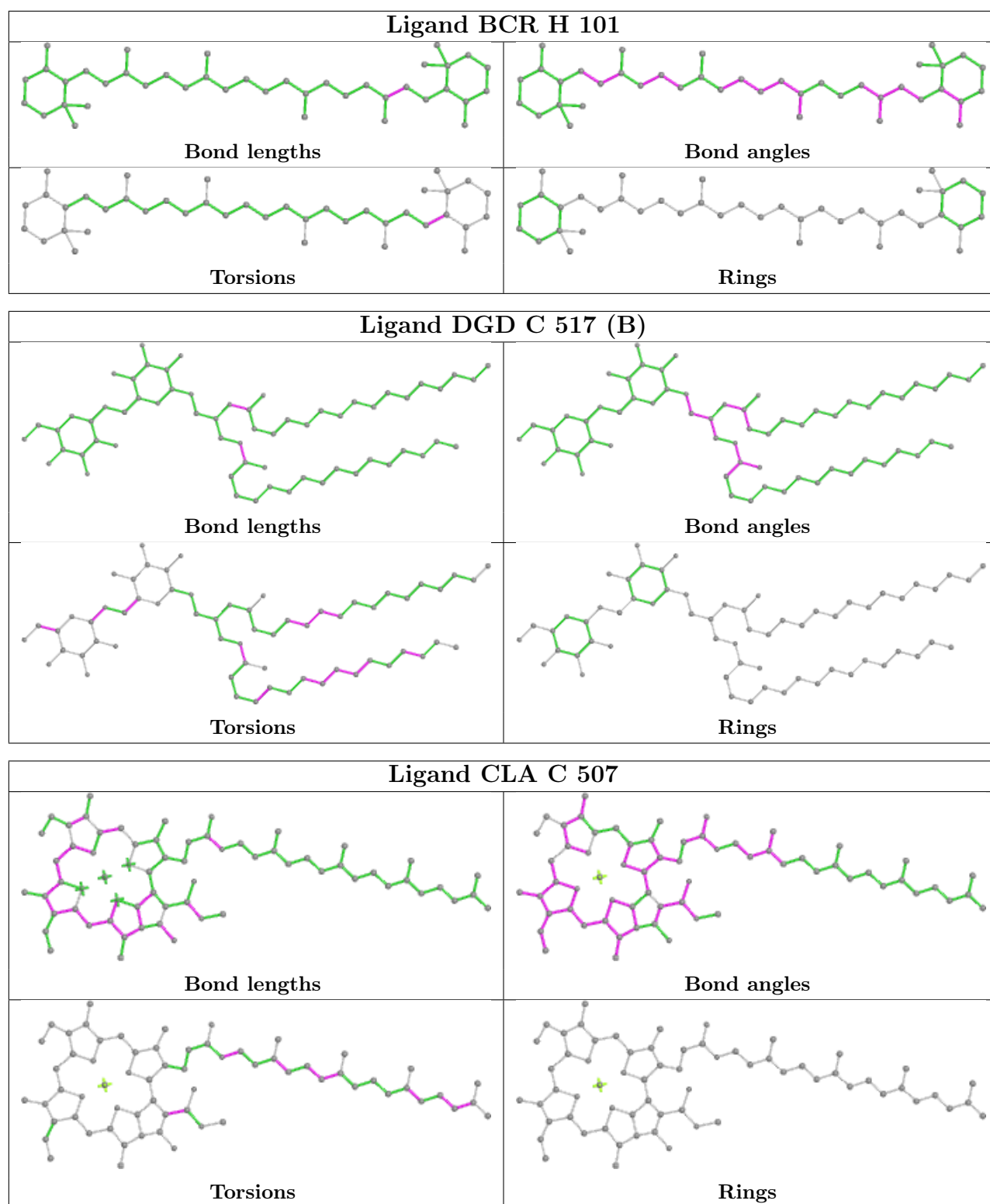
No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths,

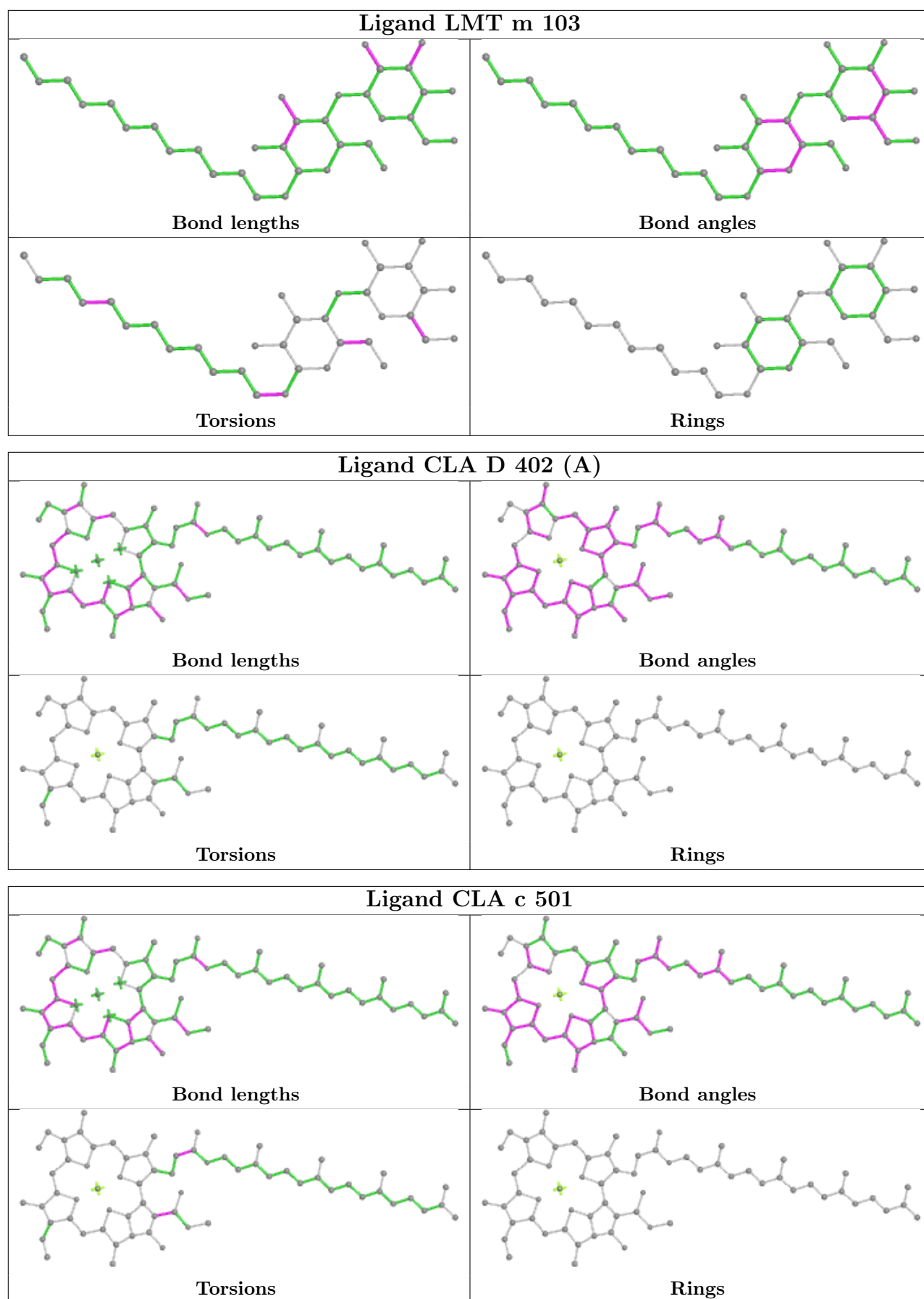
bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight  $> 250$  and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 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.

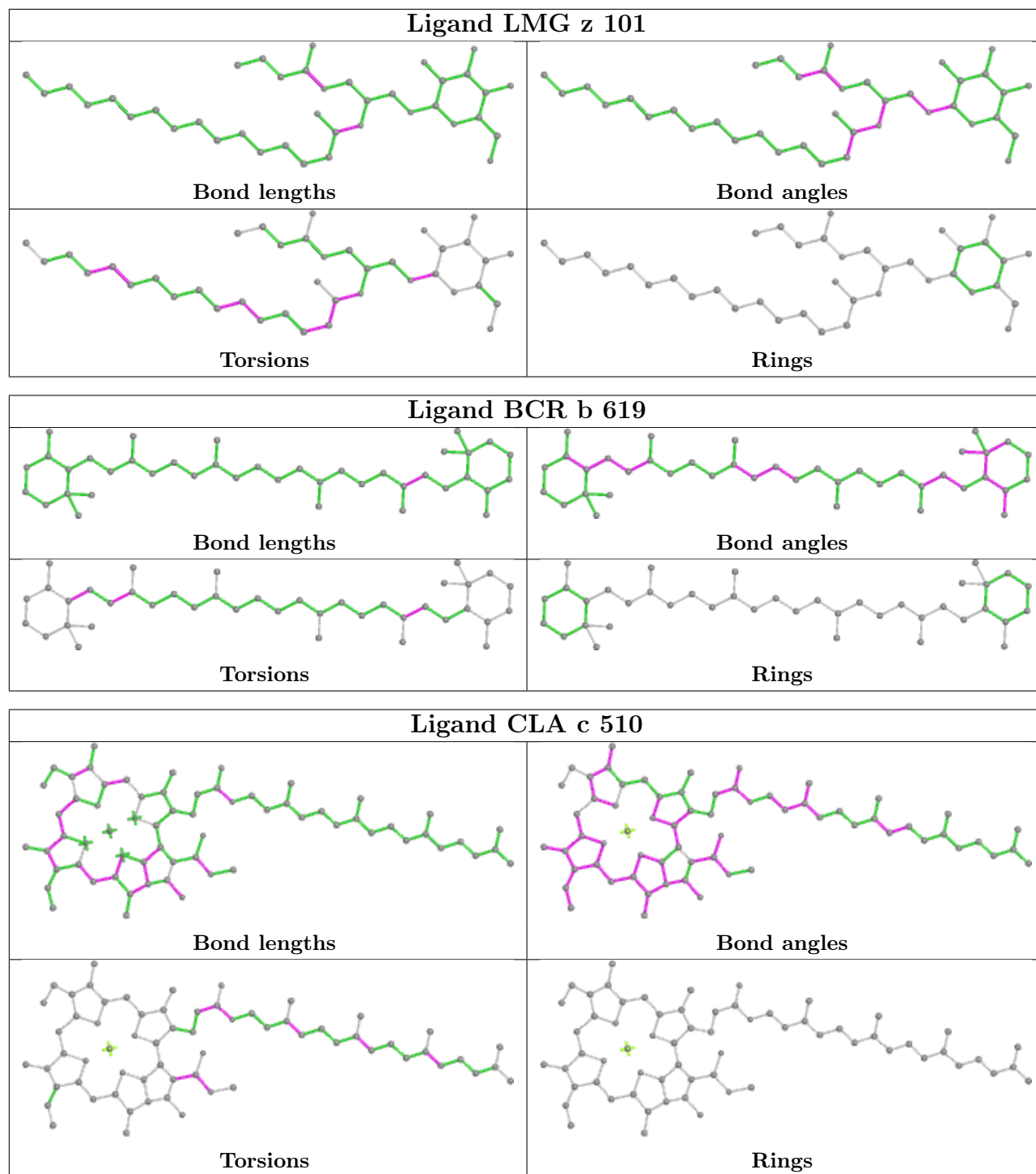


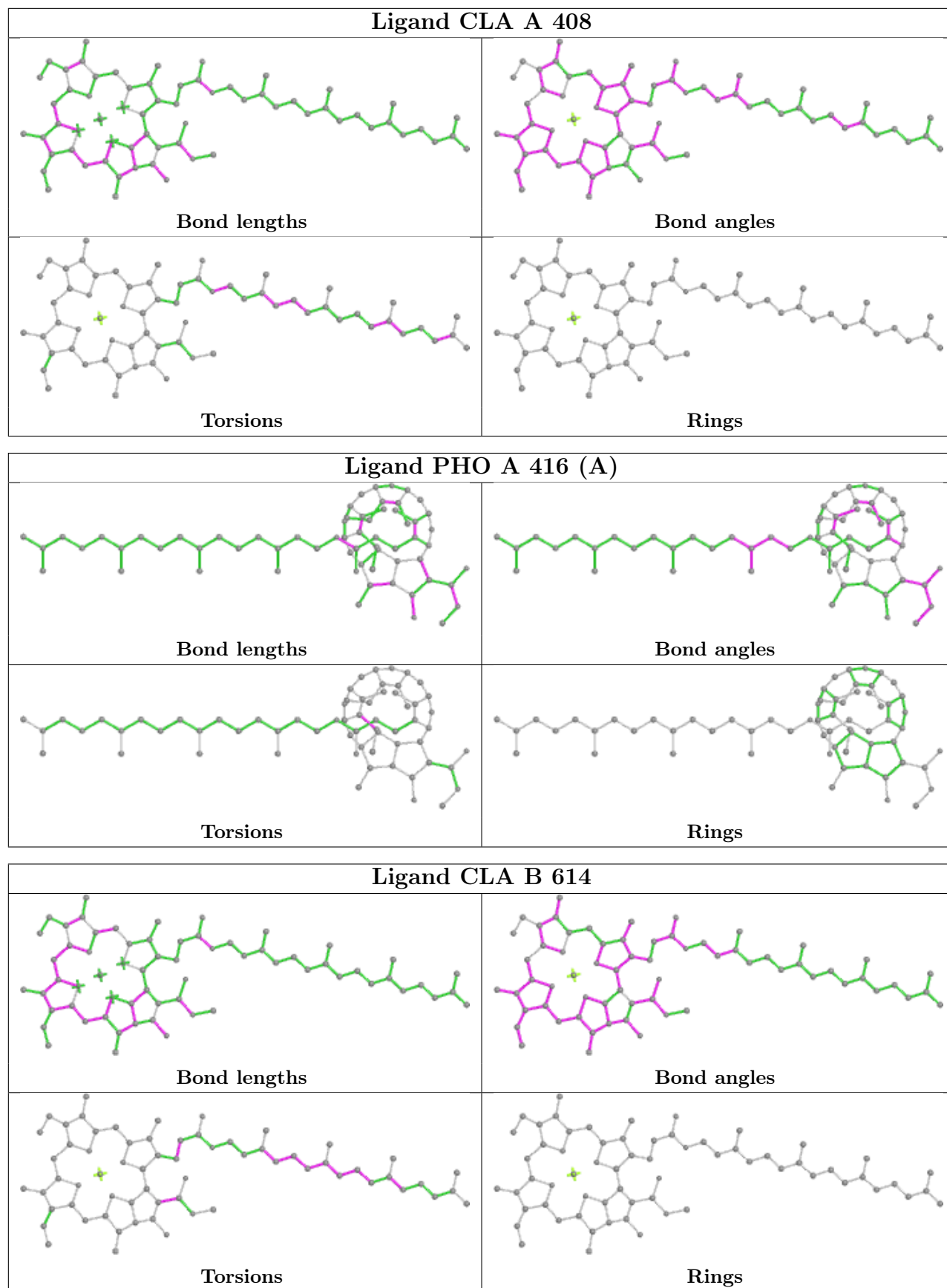


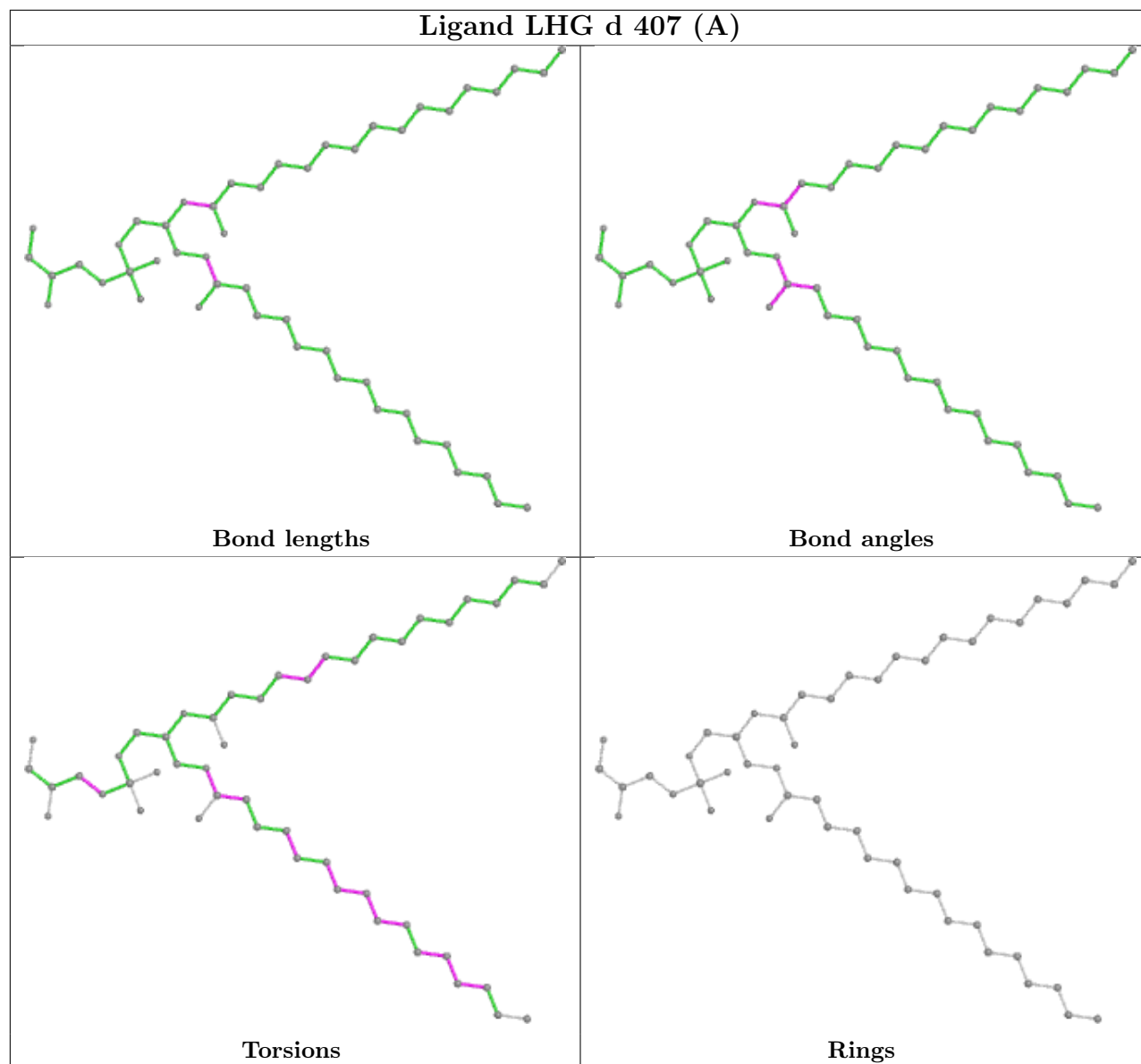


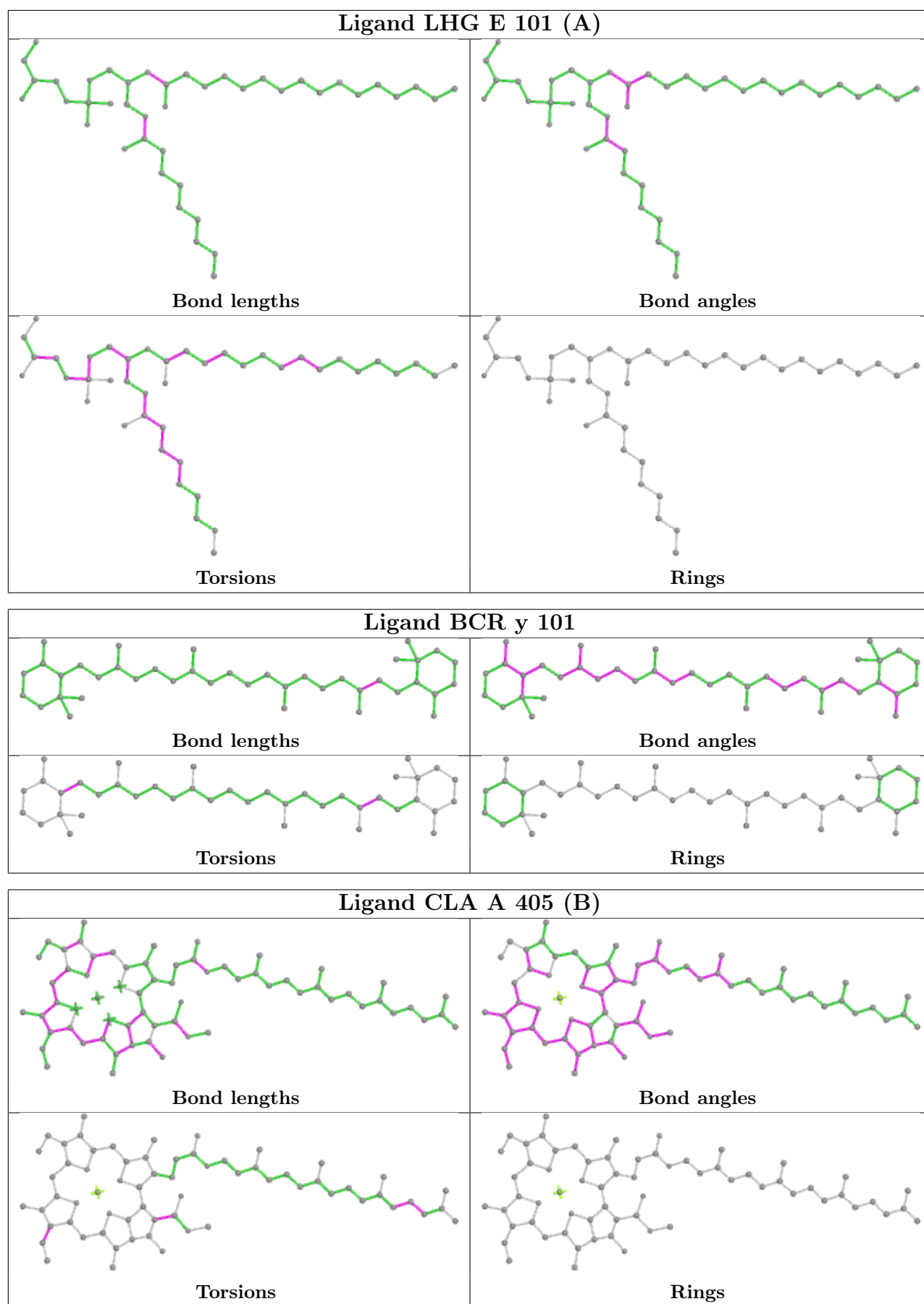


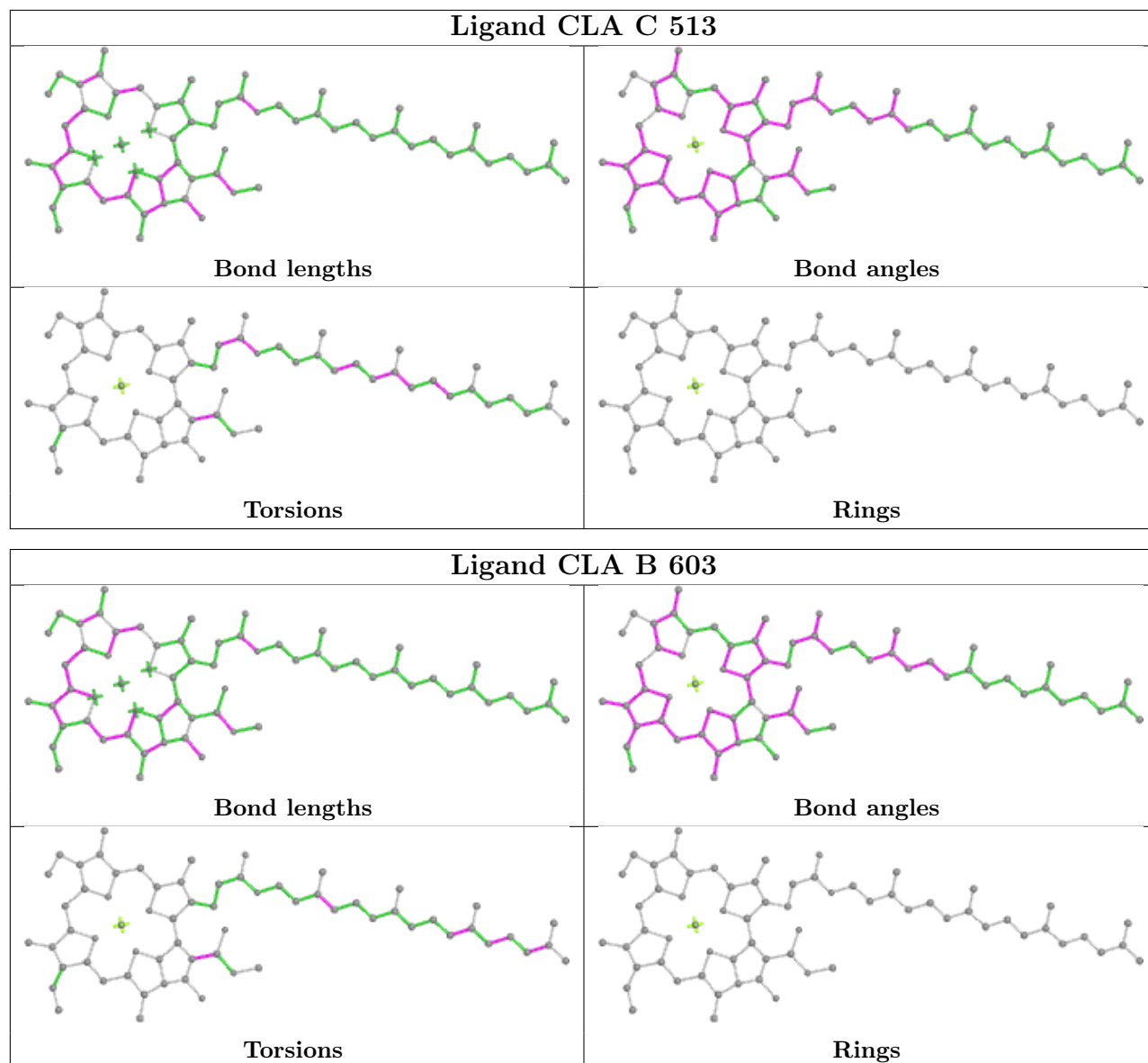


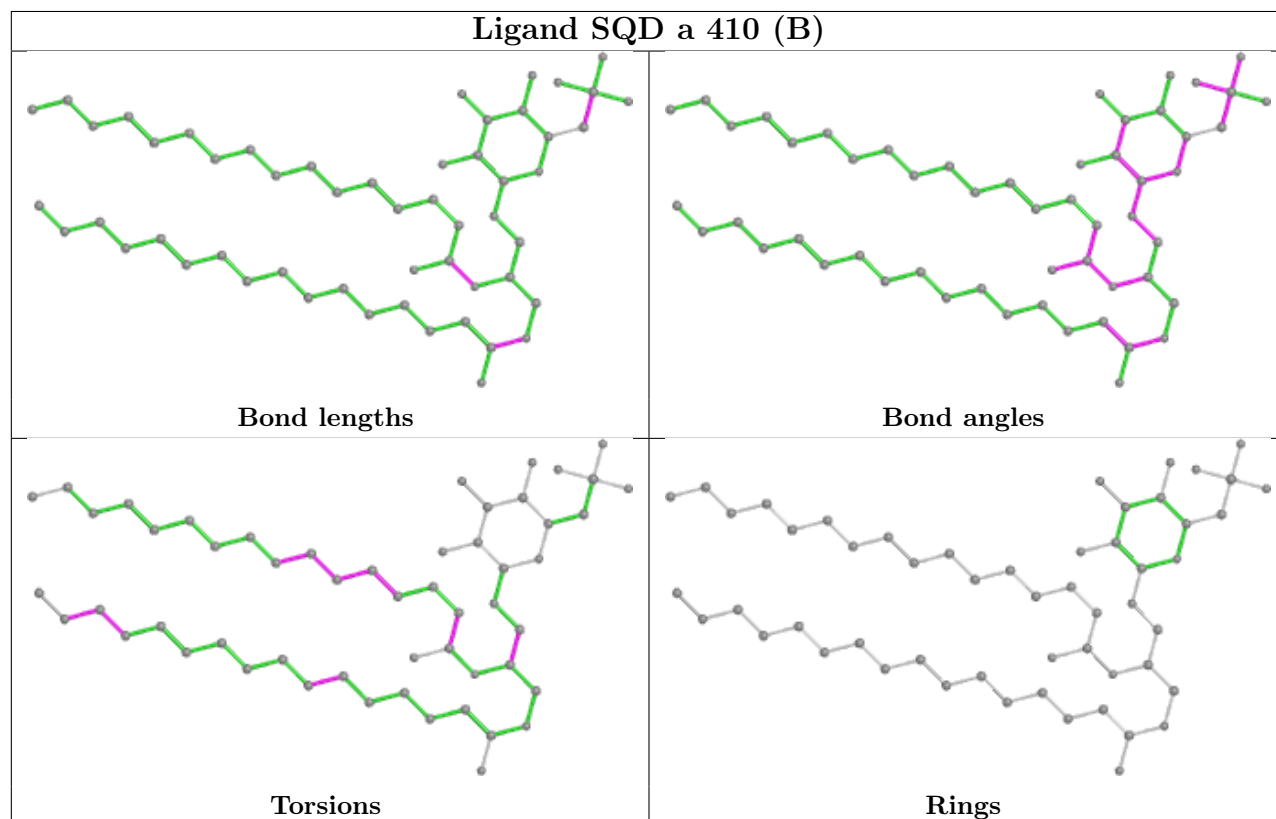
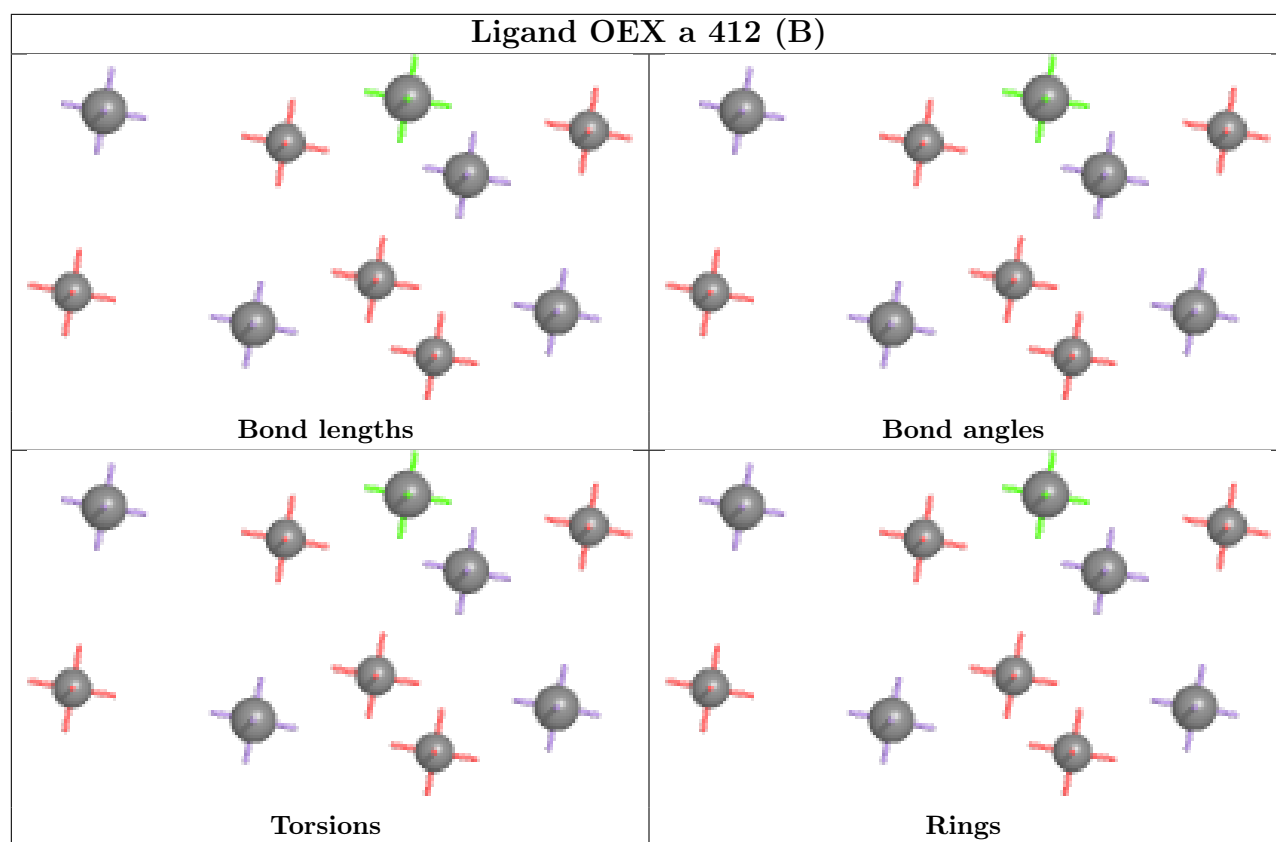


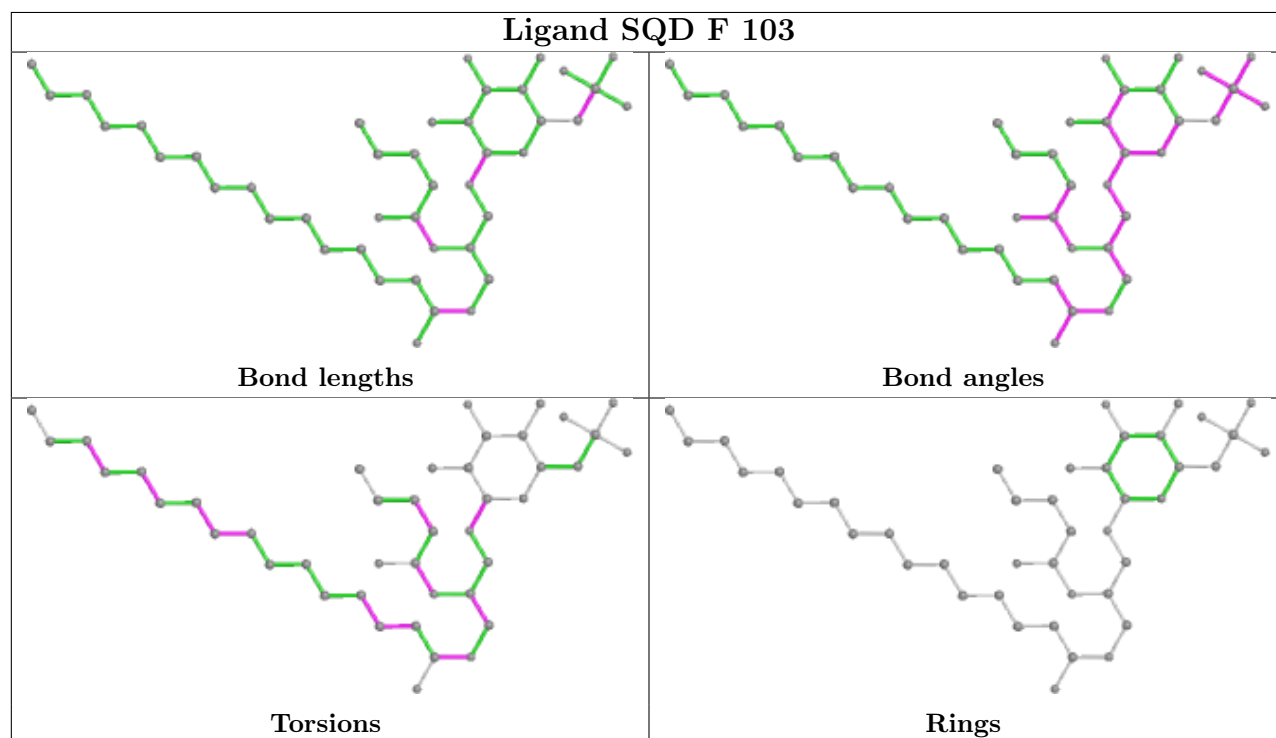
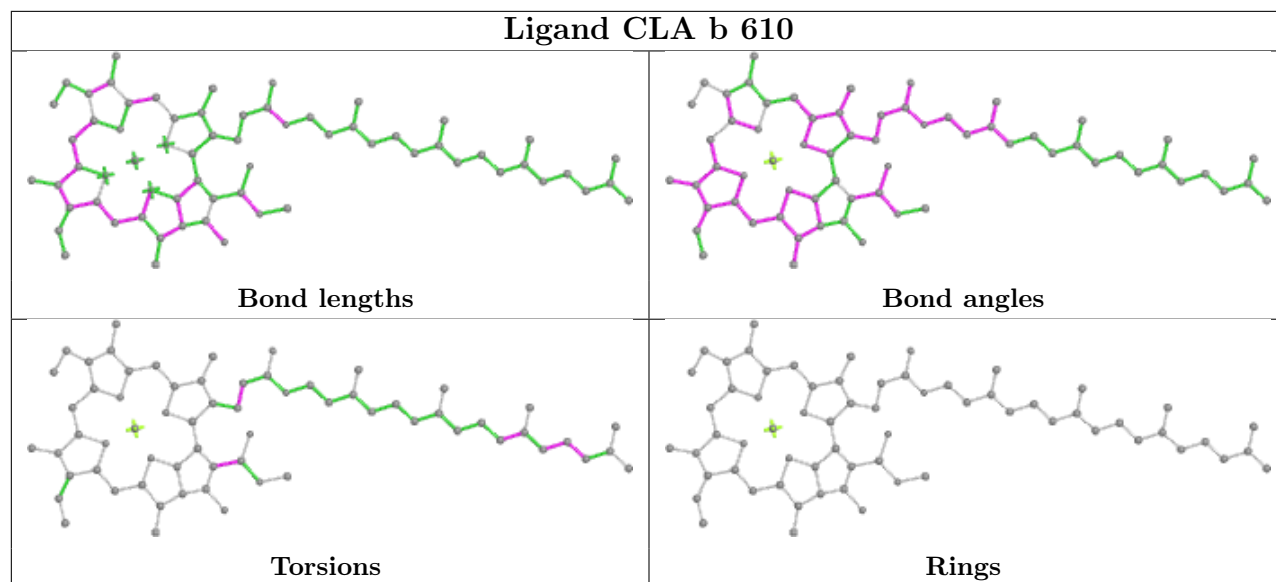




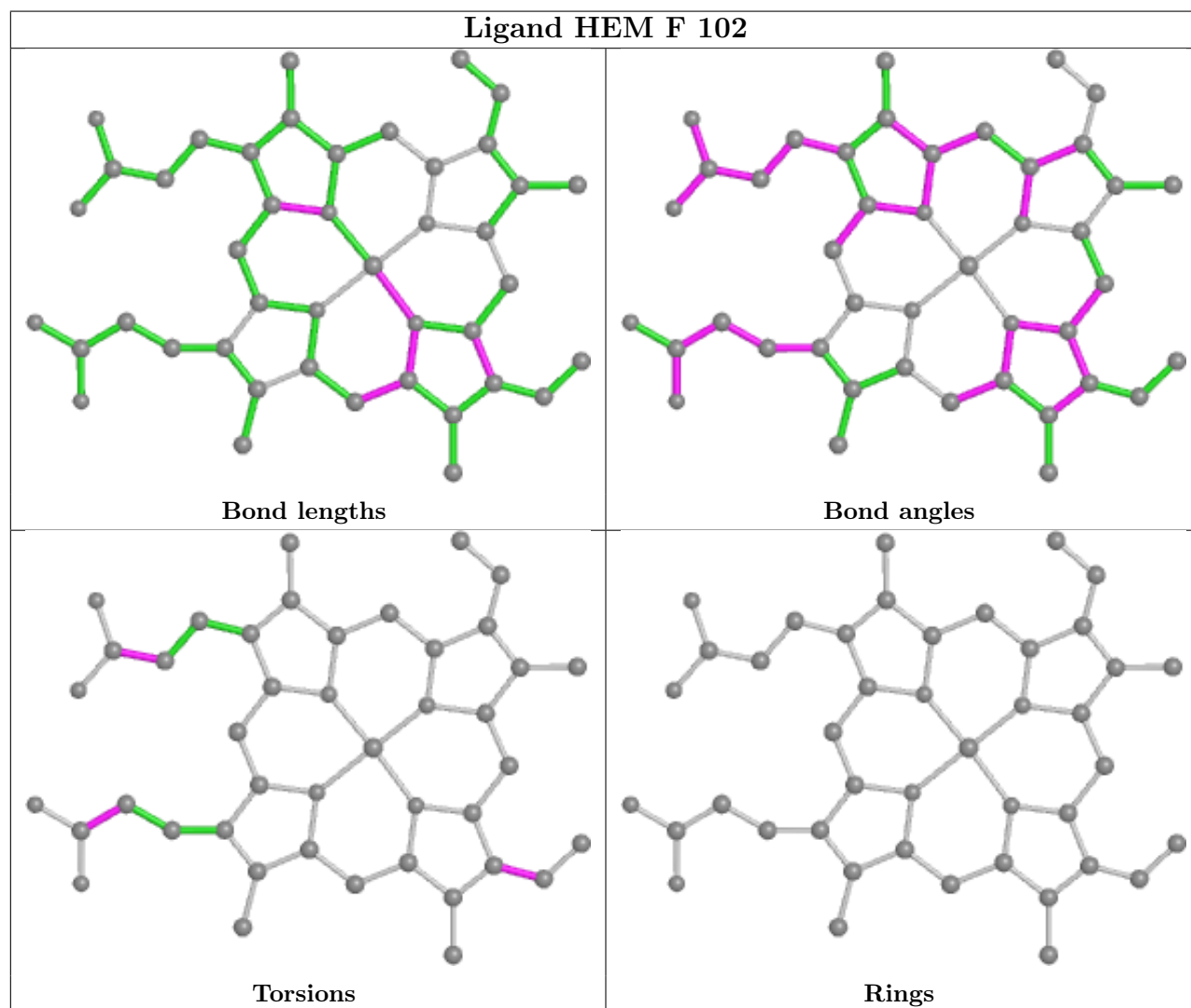
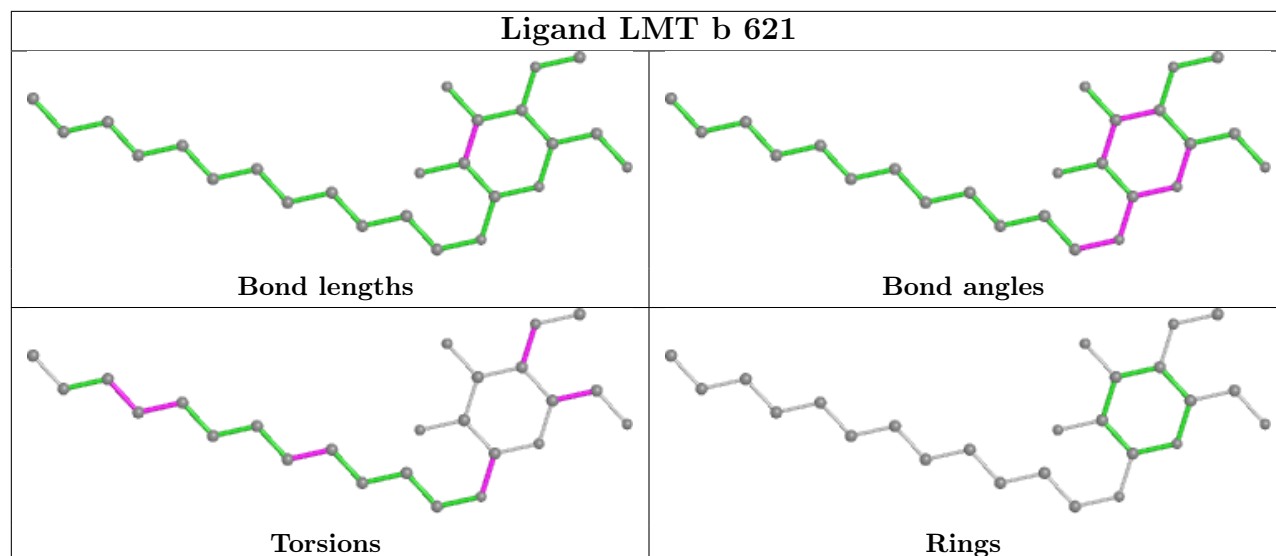


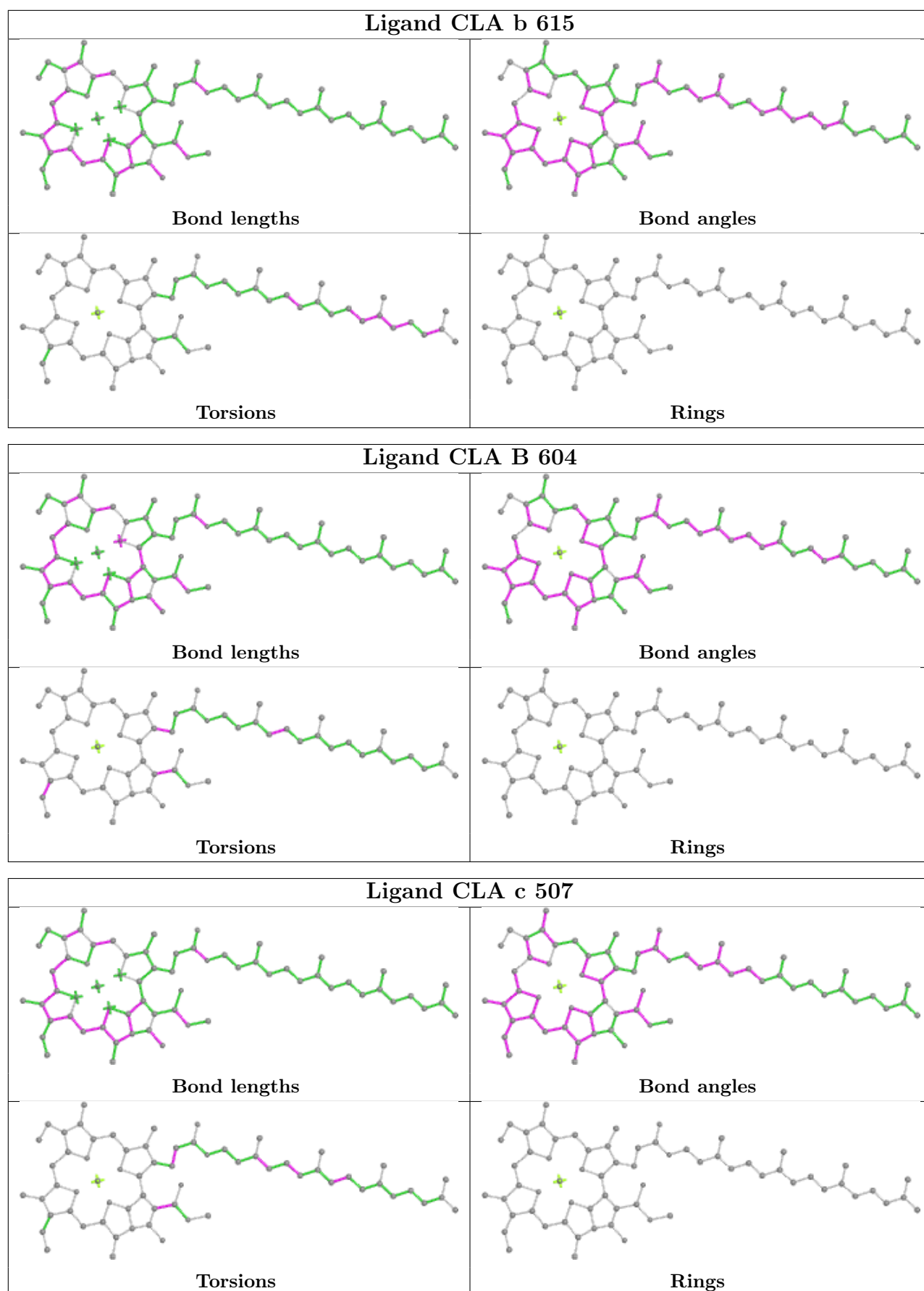


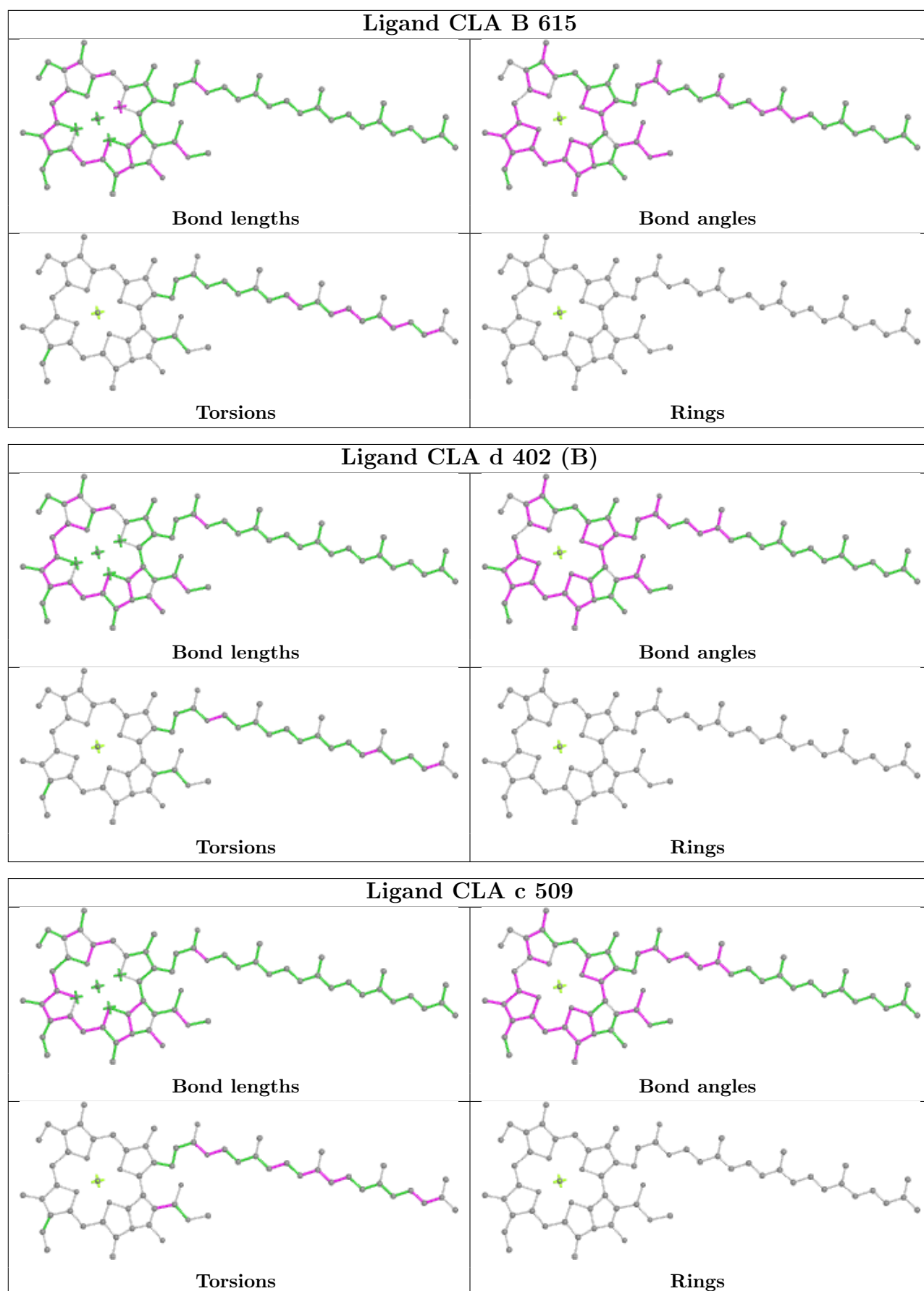


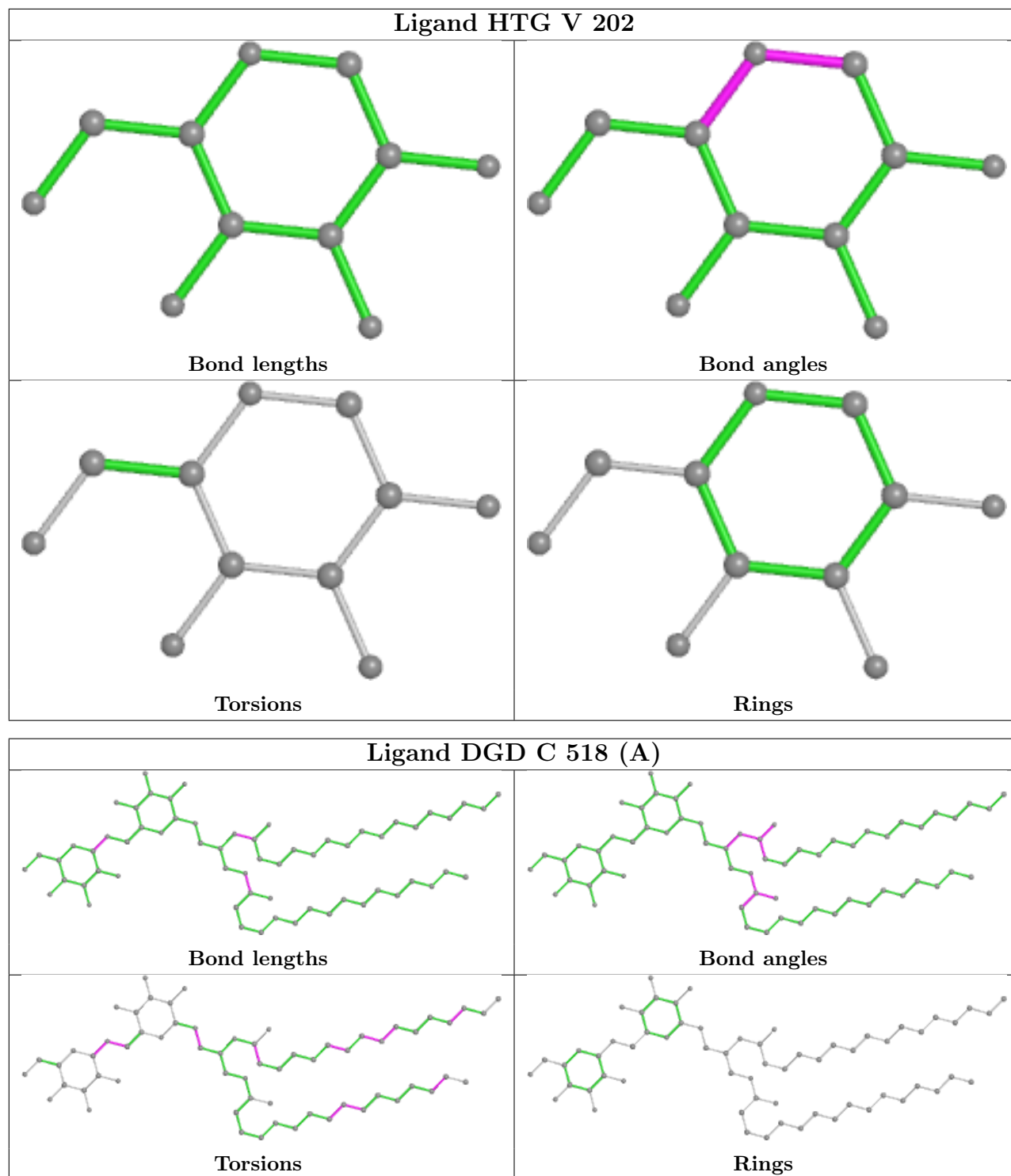


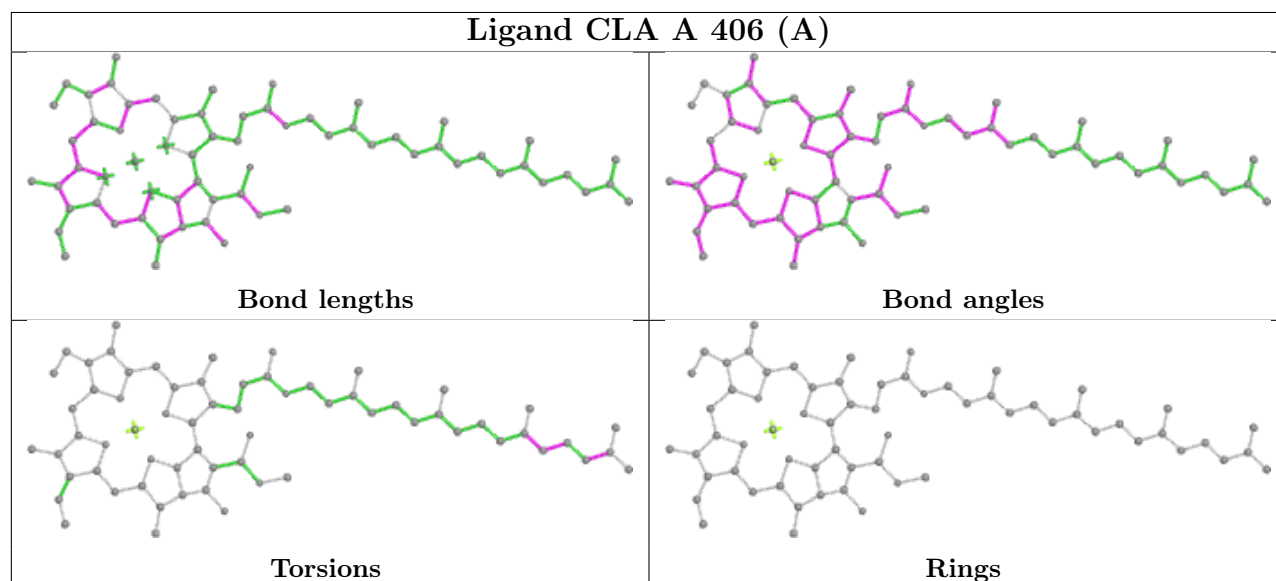
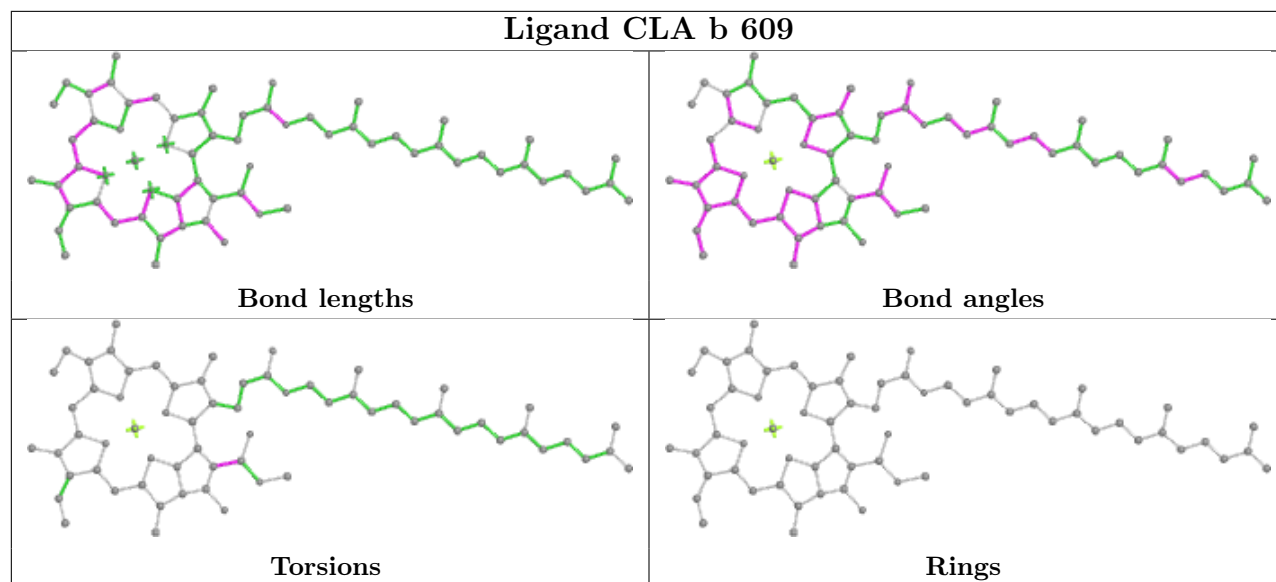


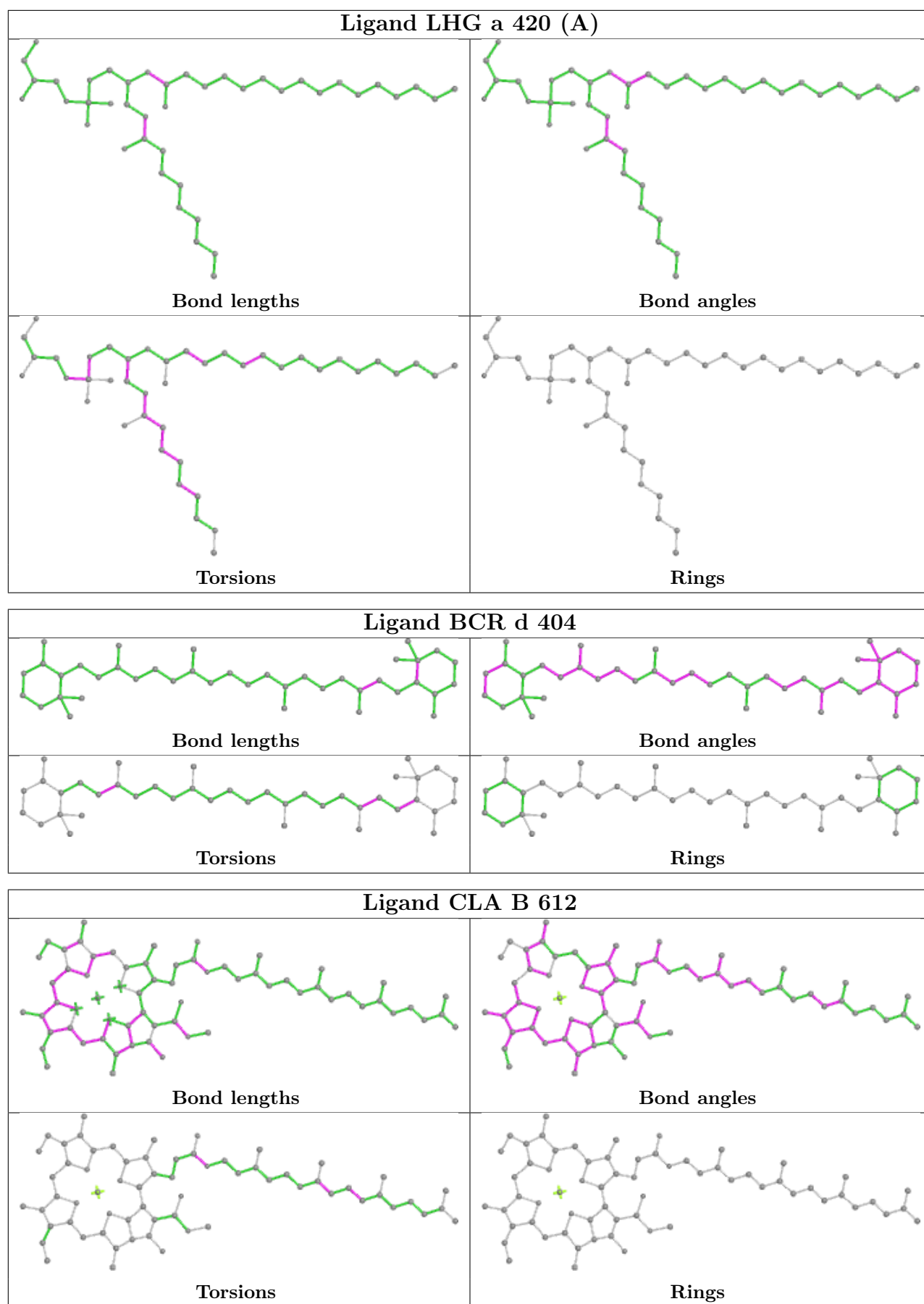


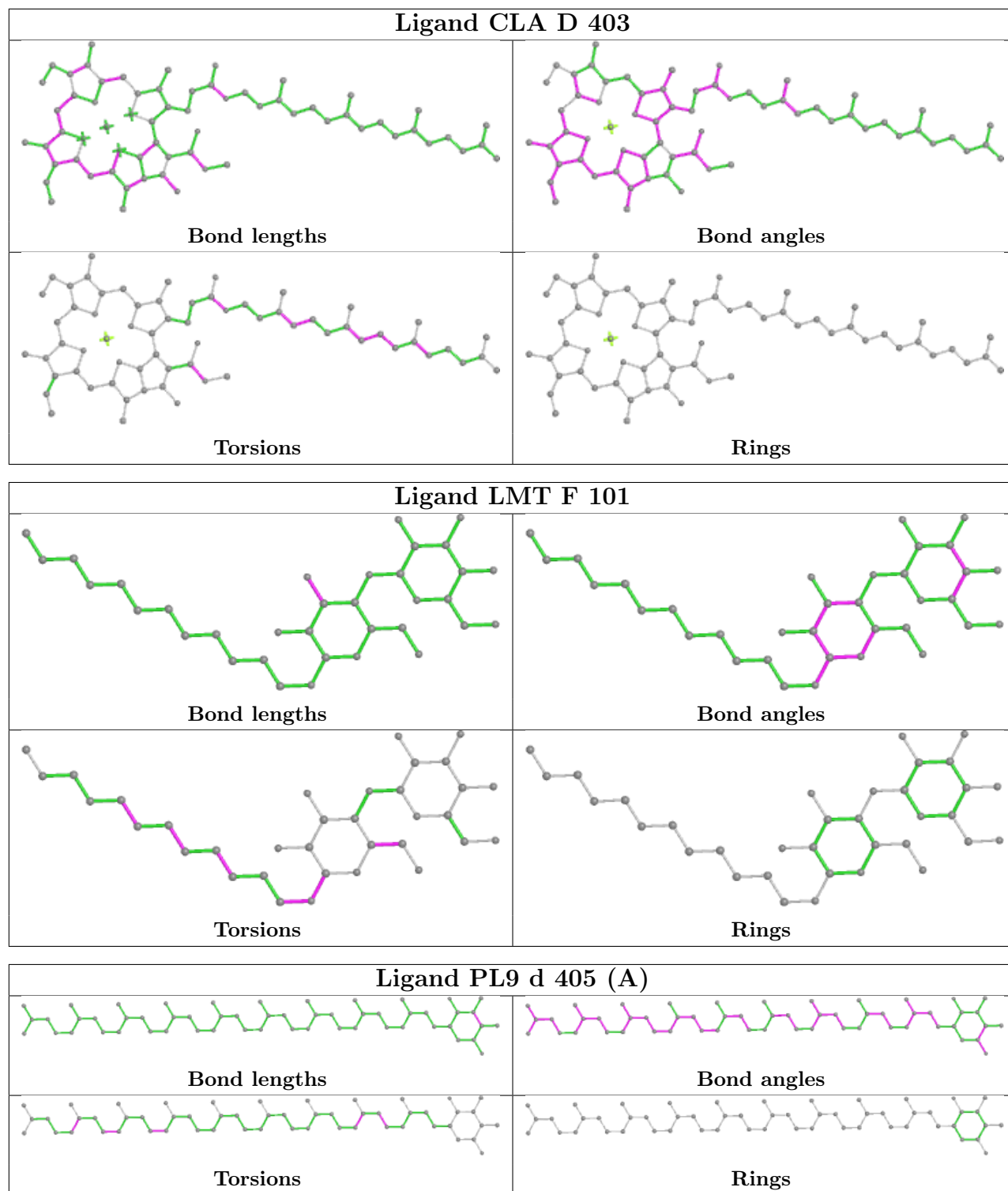


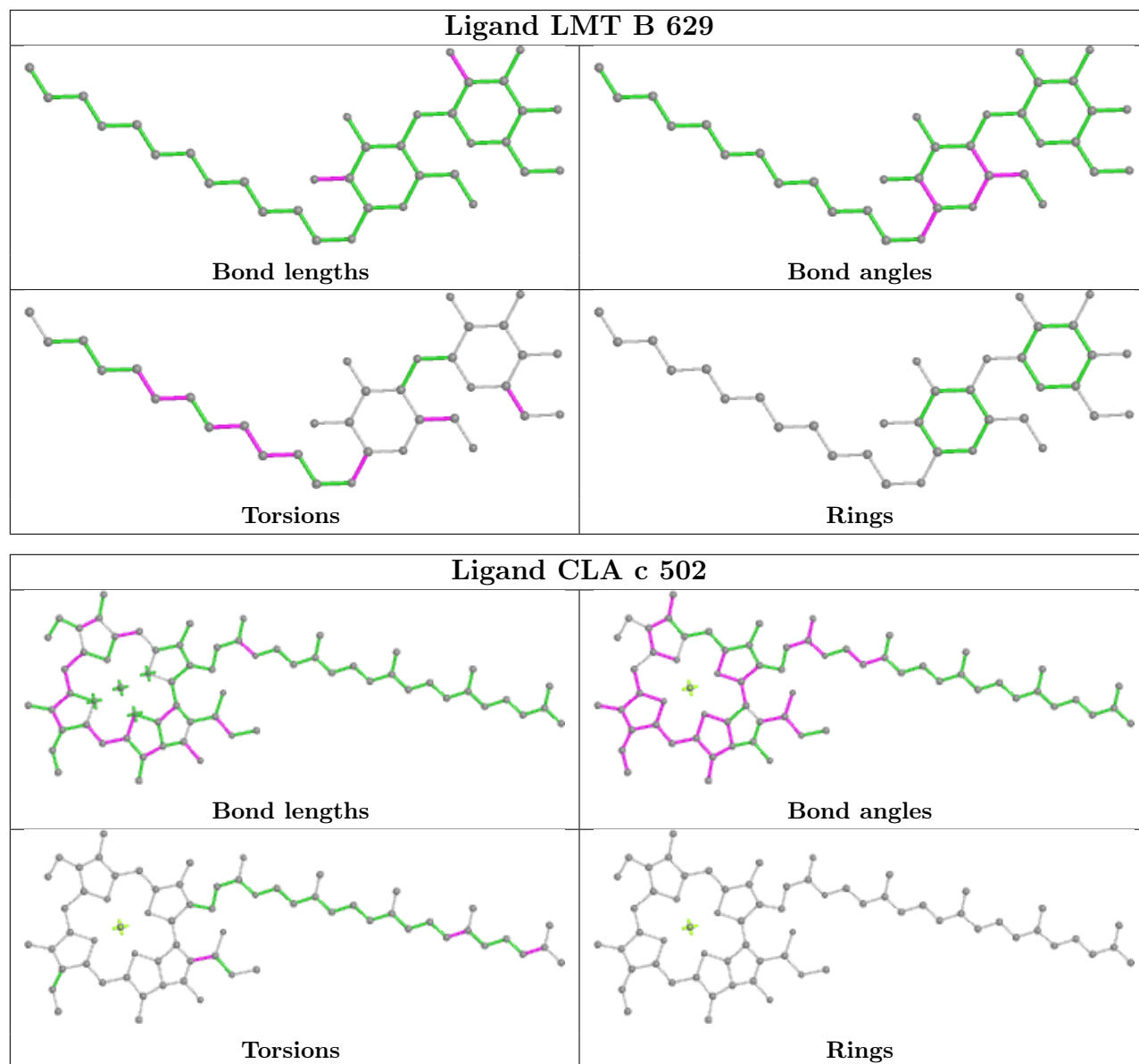




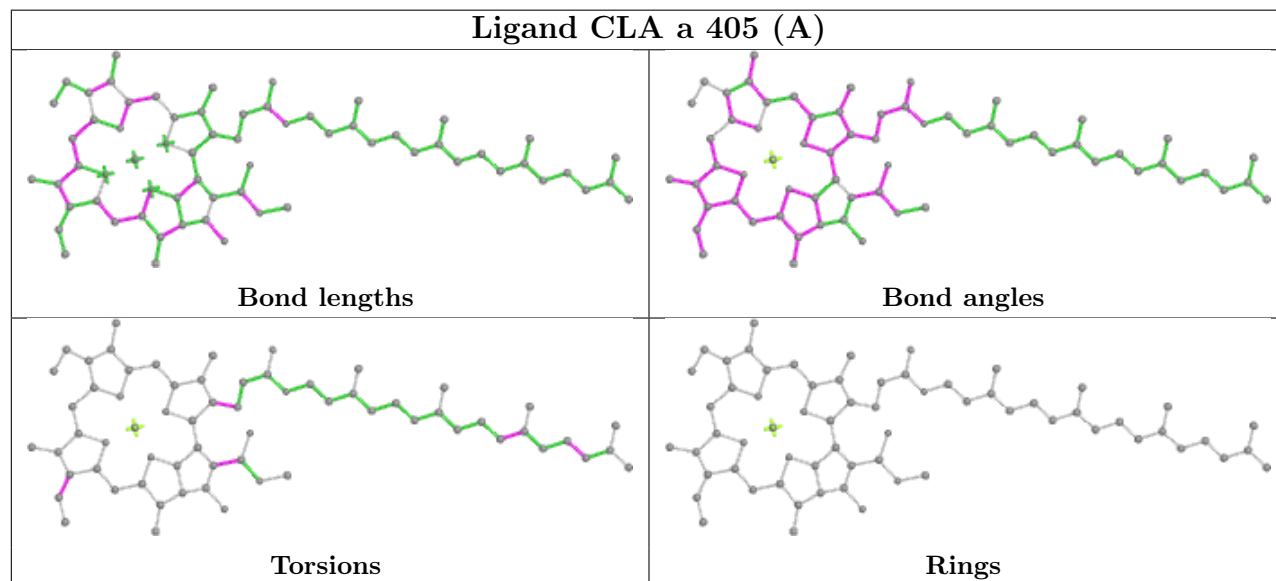
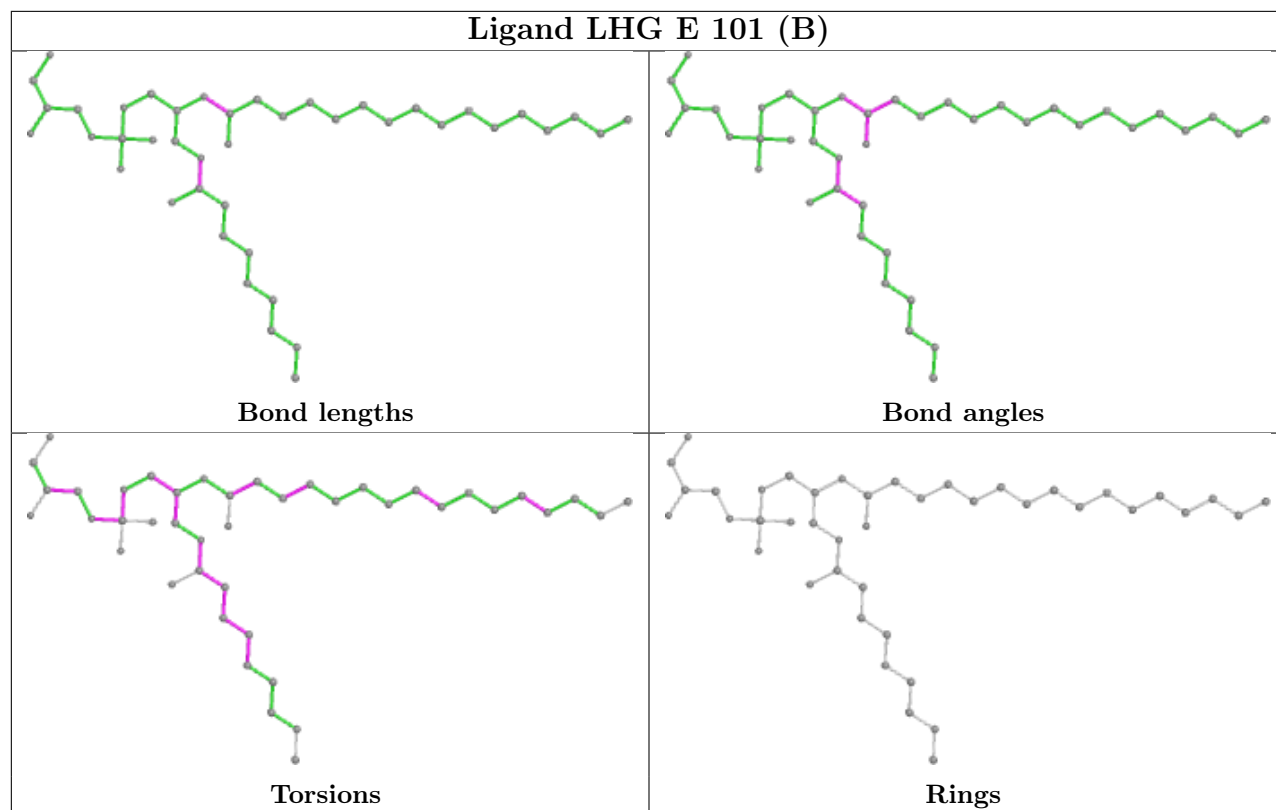


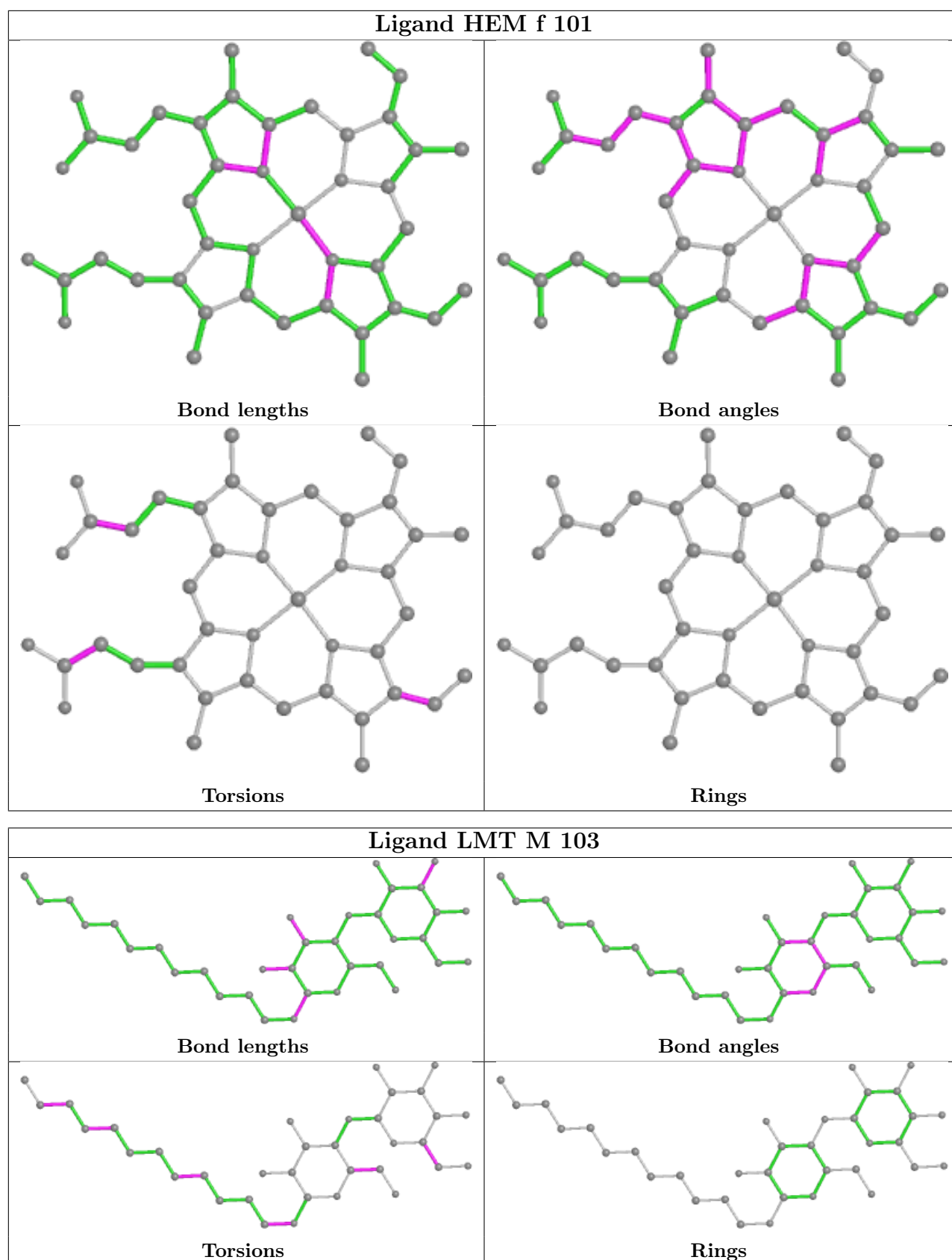


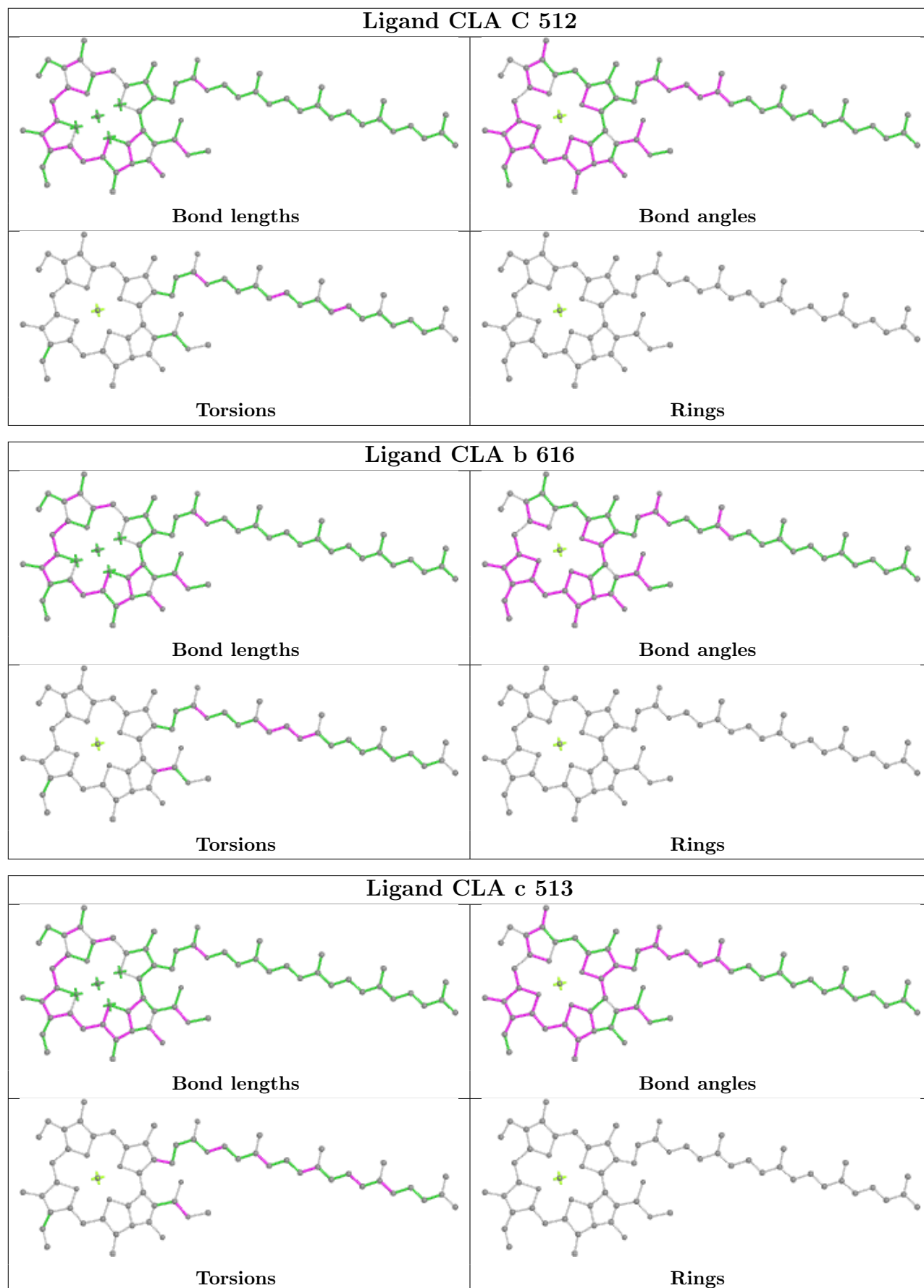


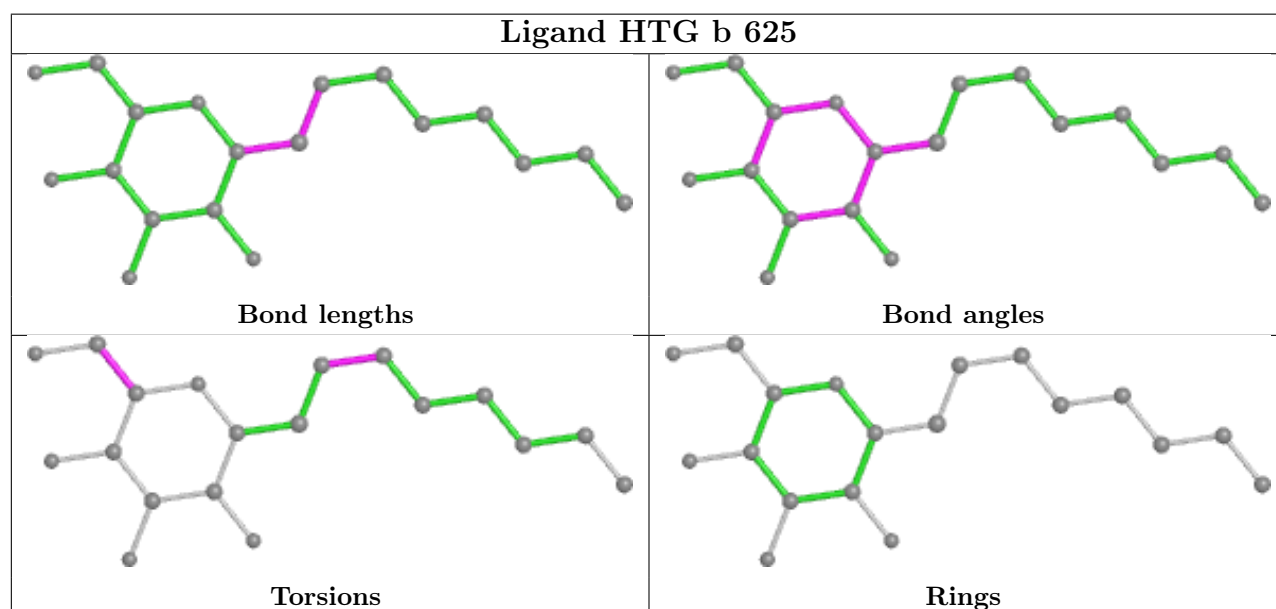
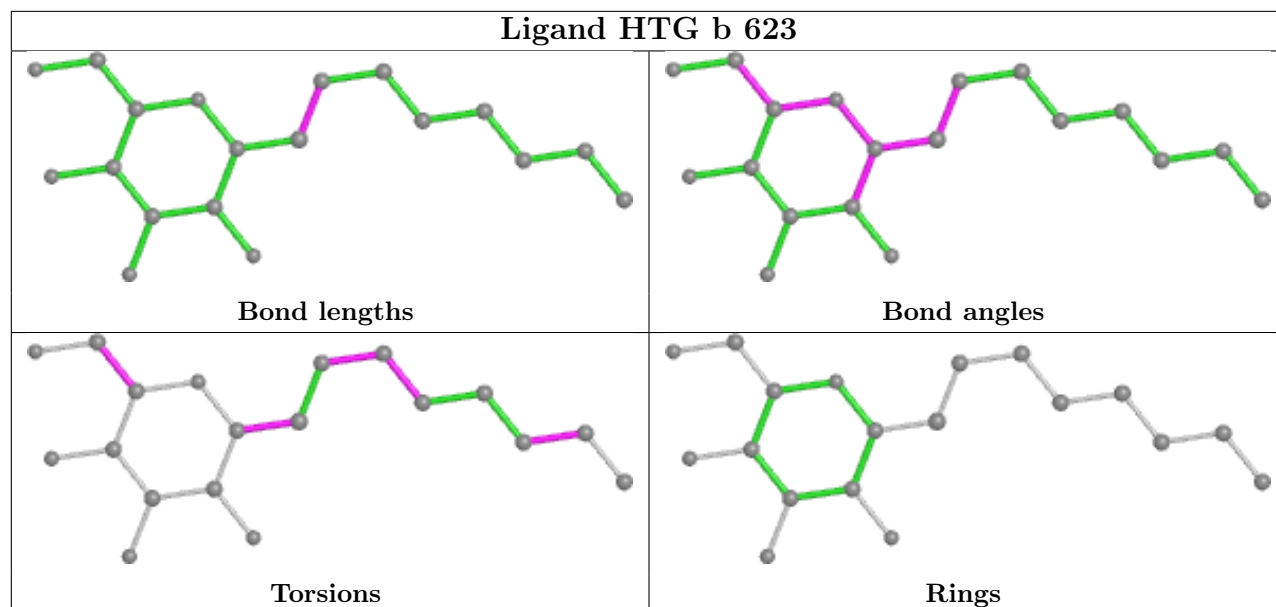


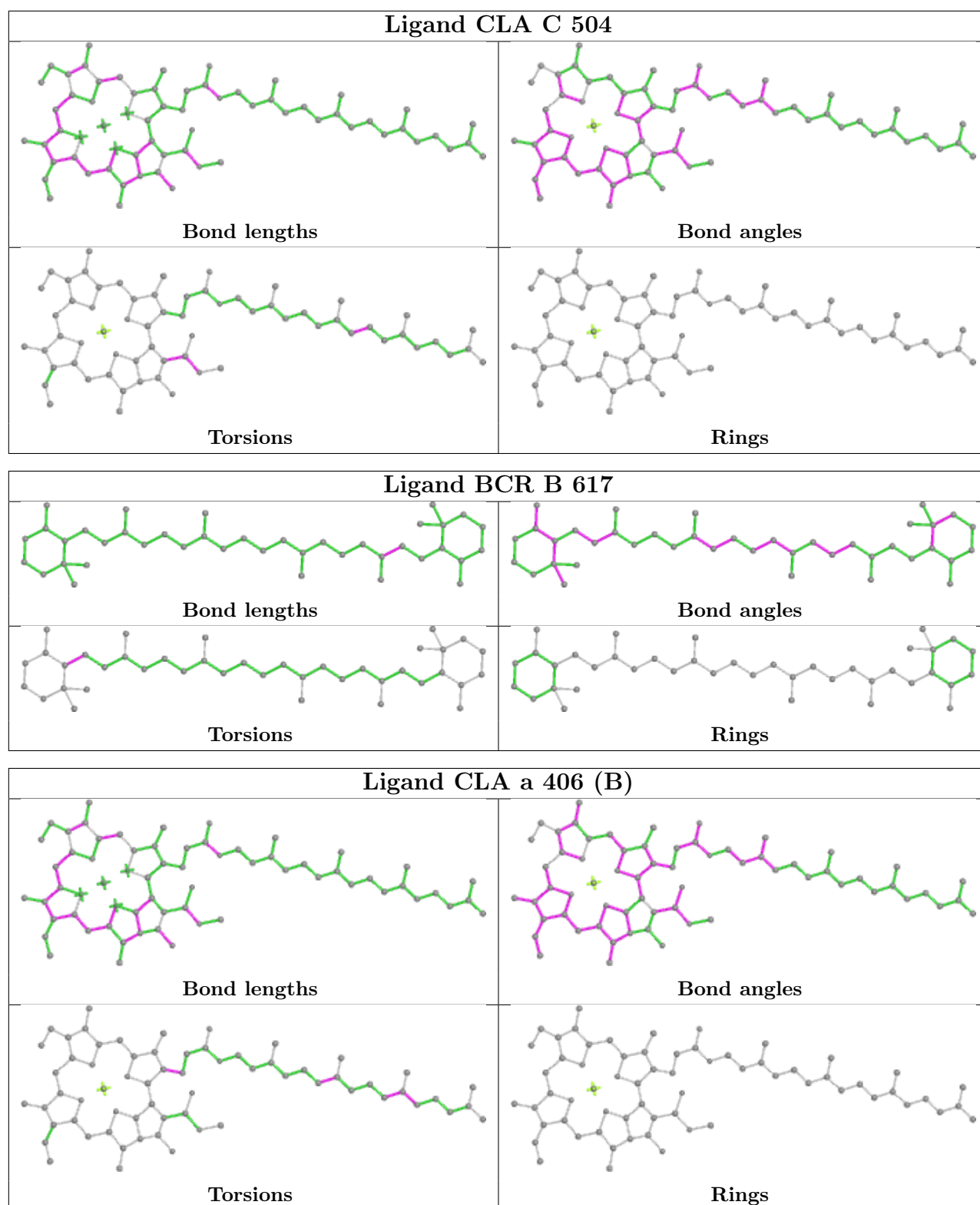


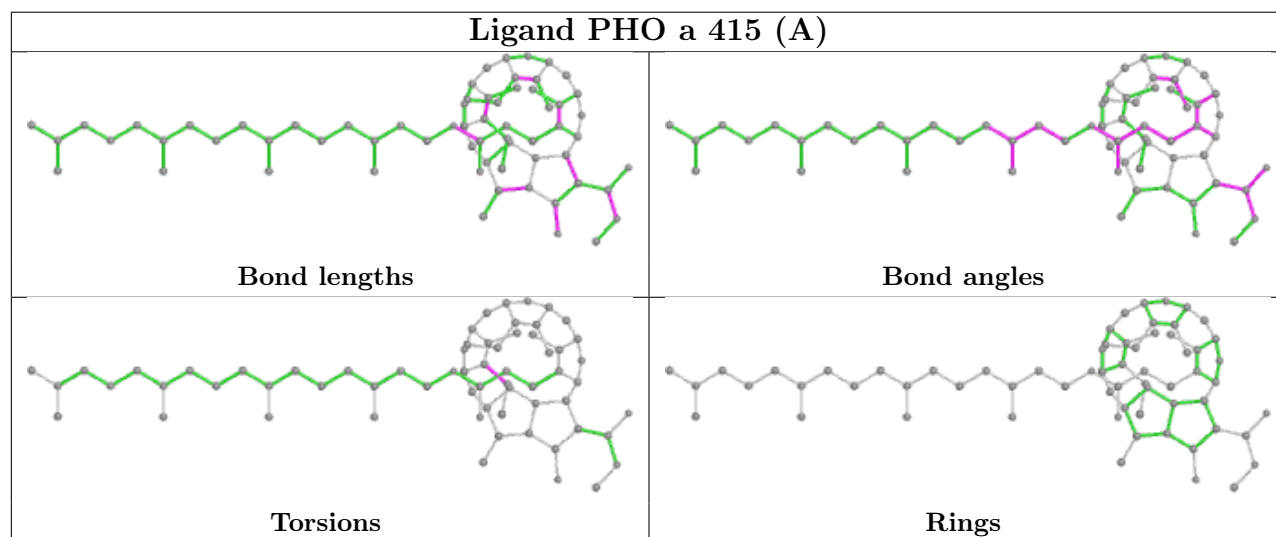
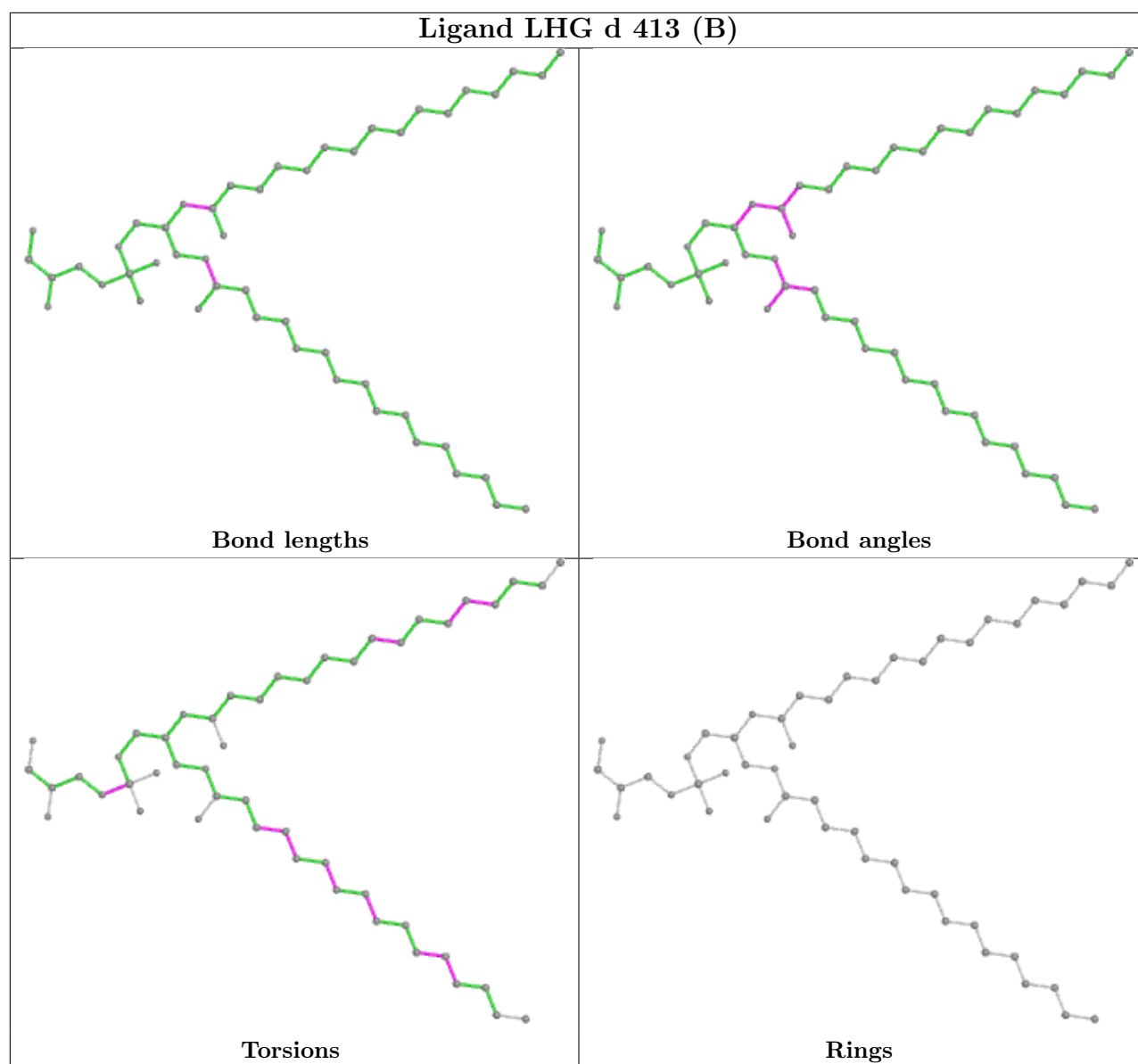


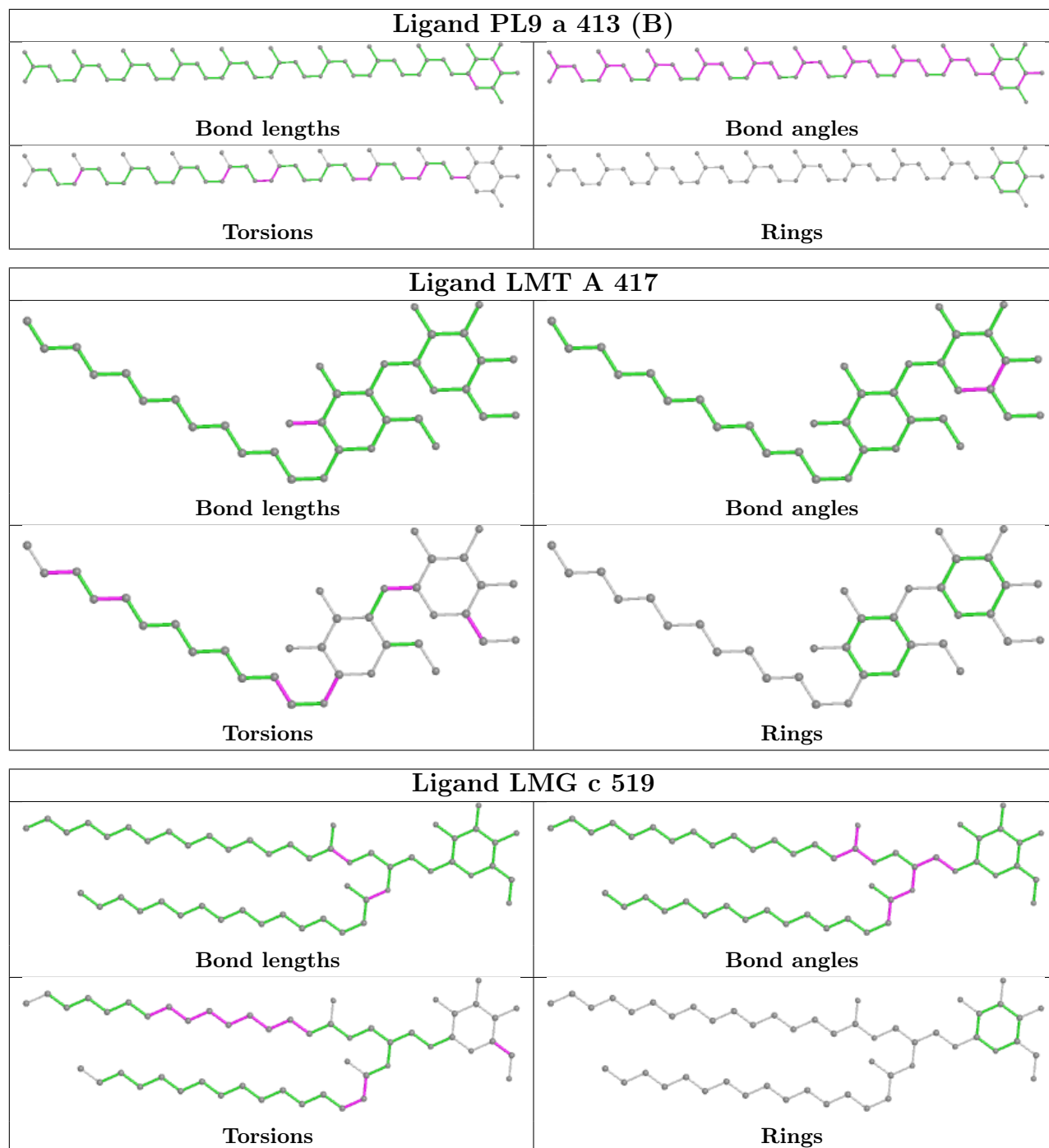


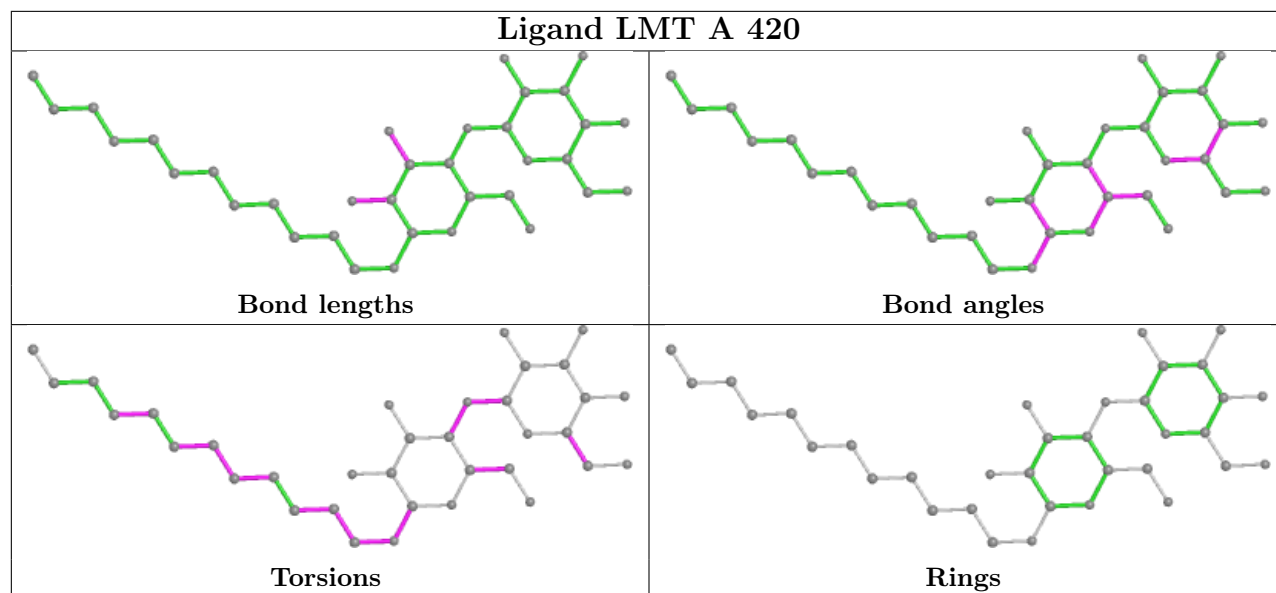




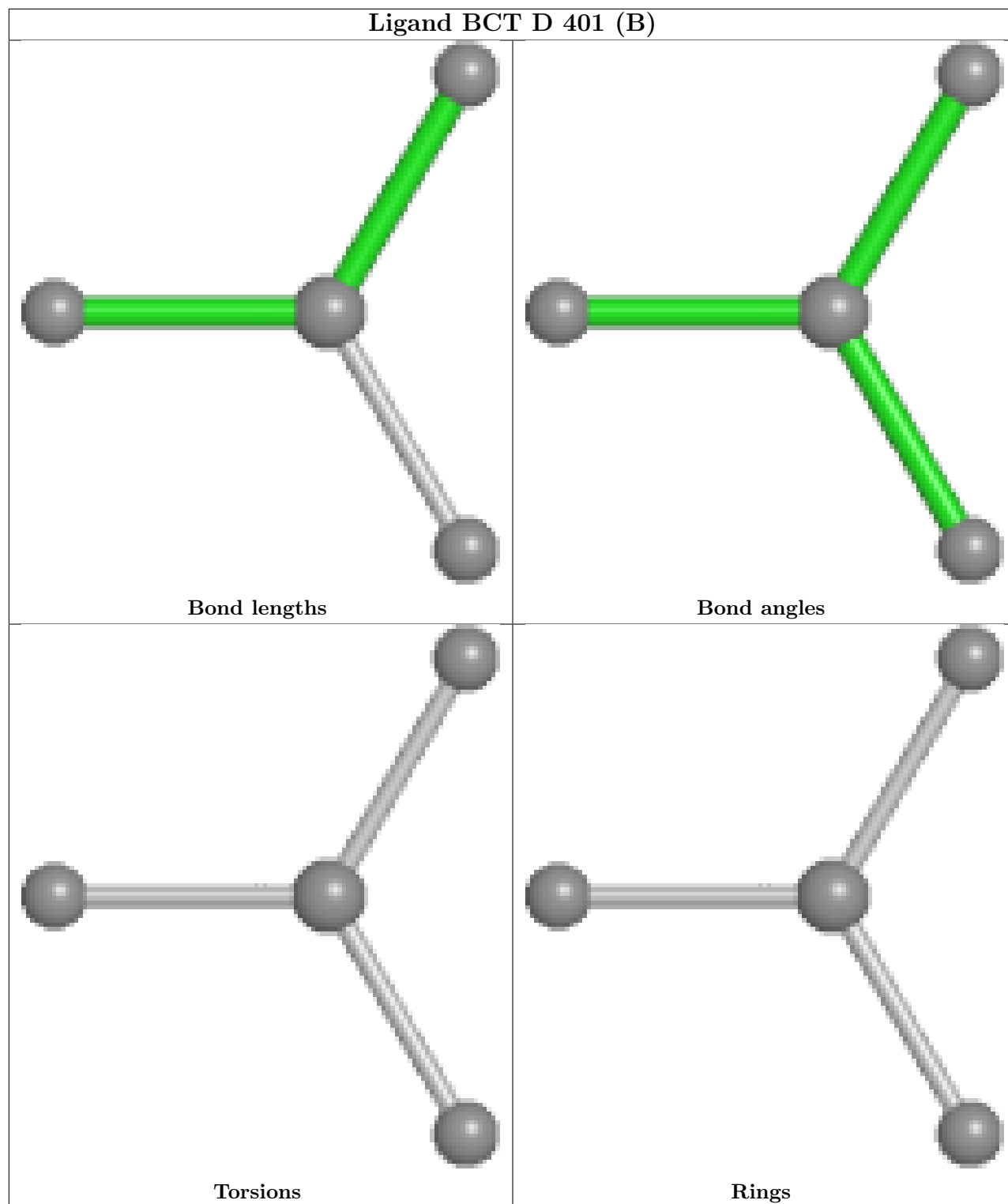


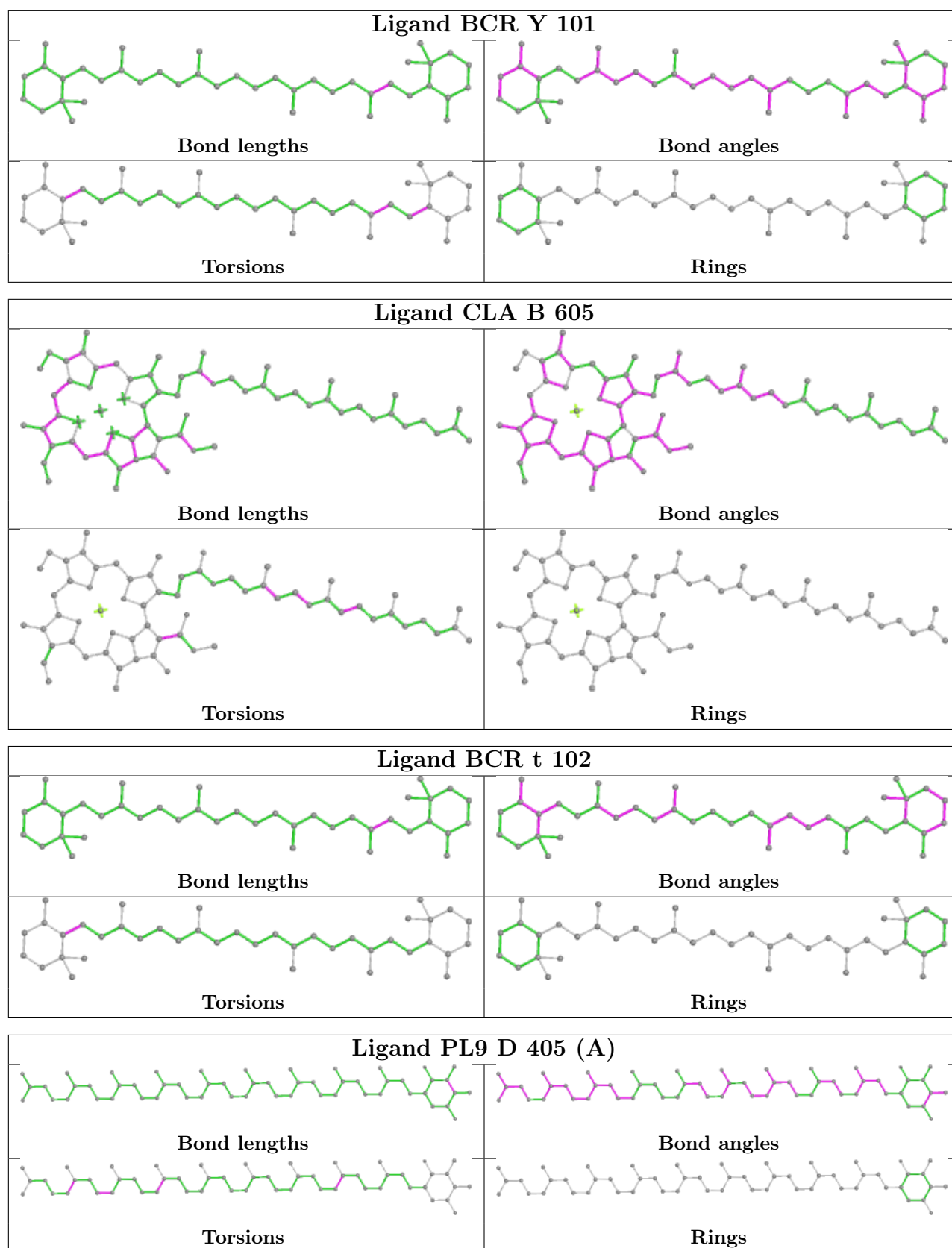


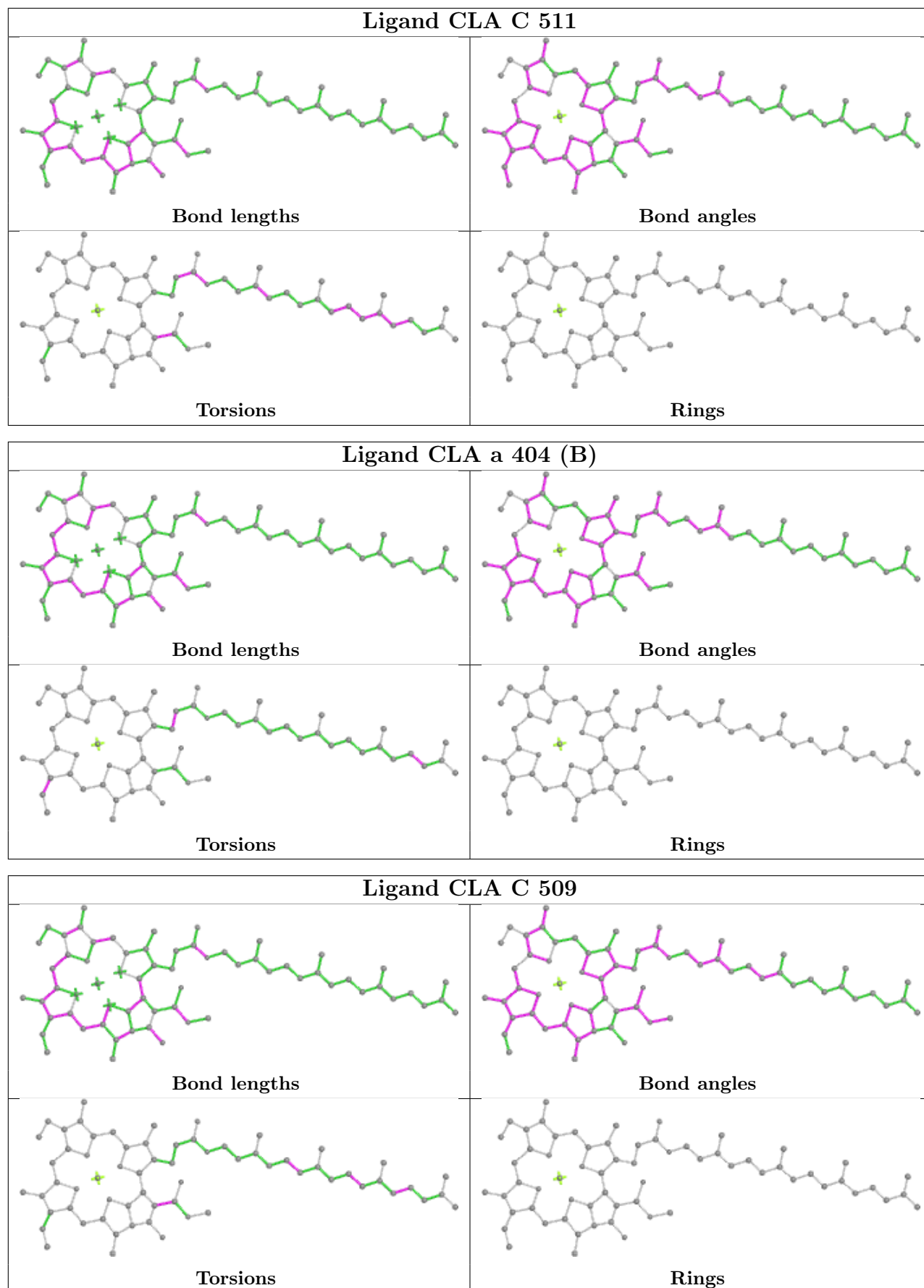


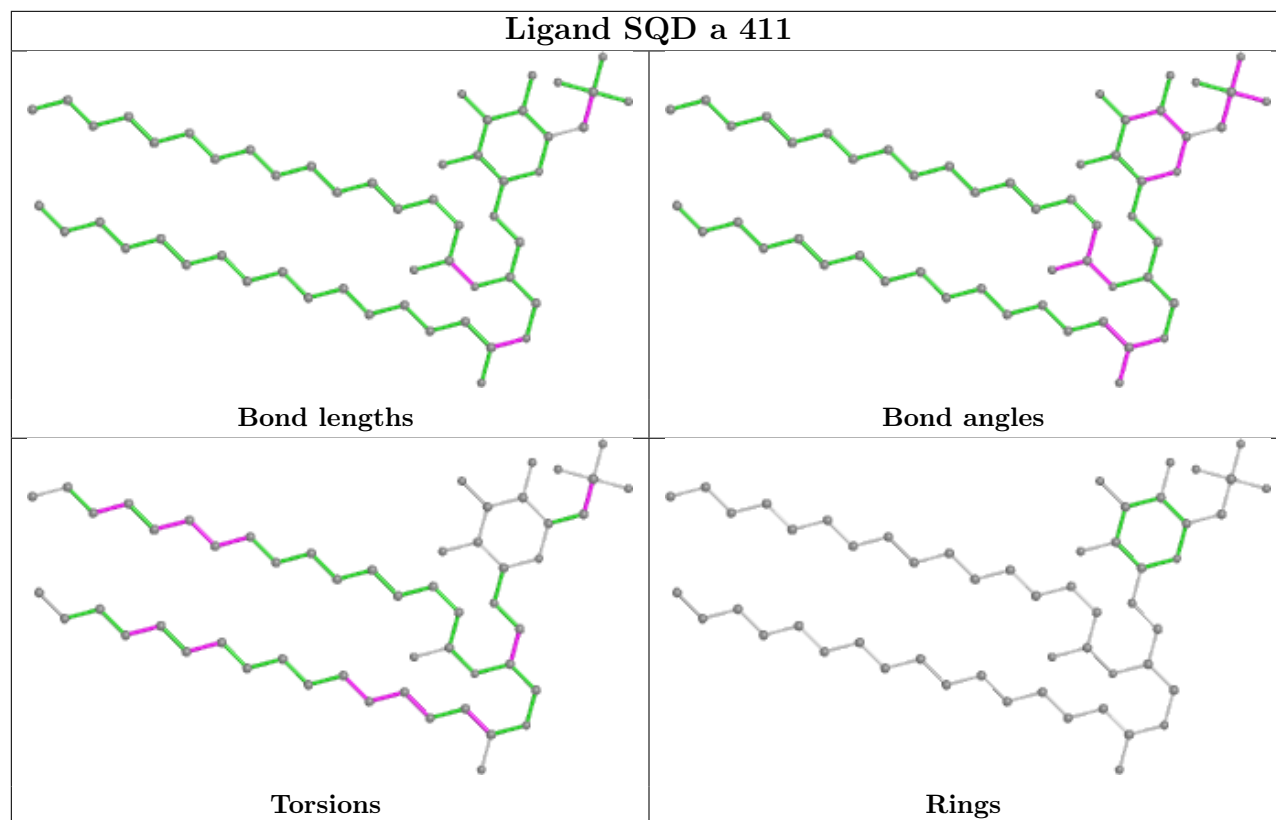
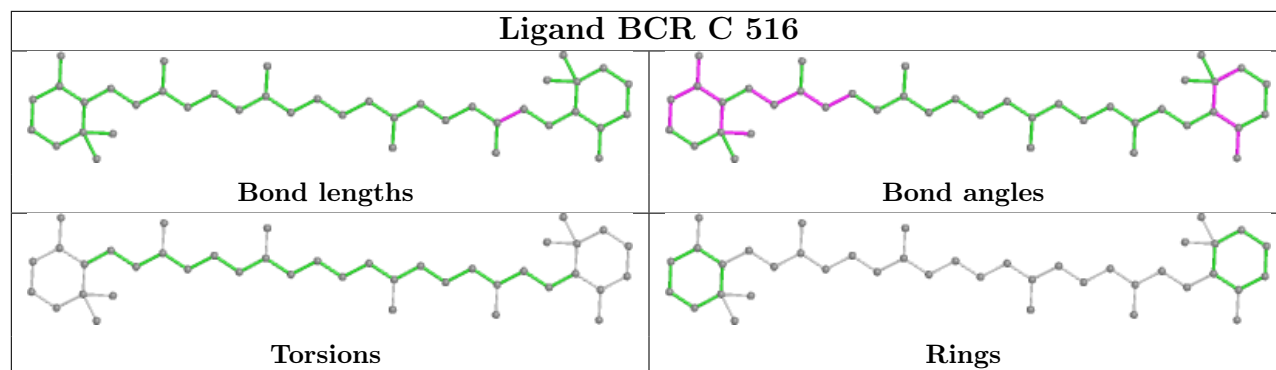


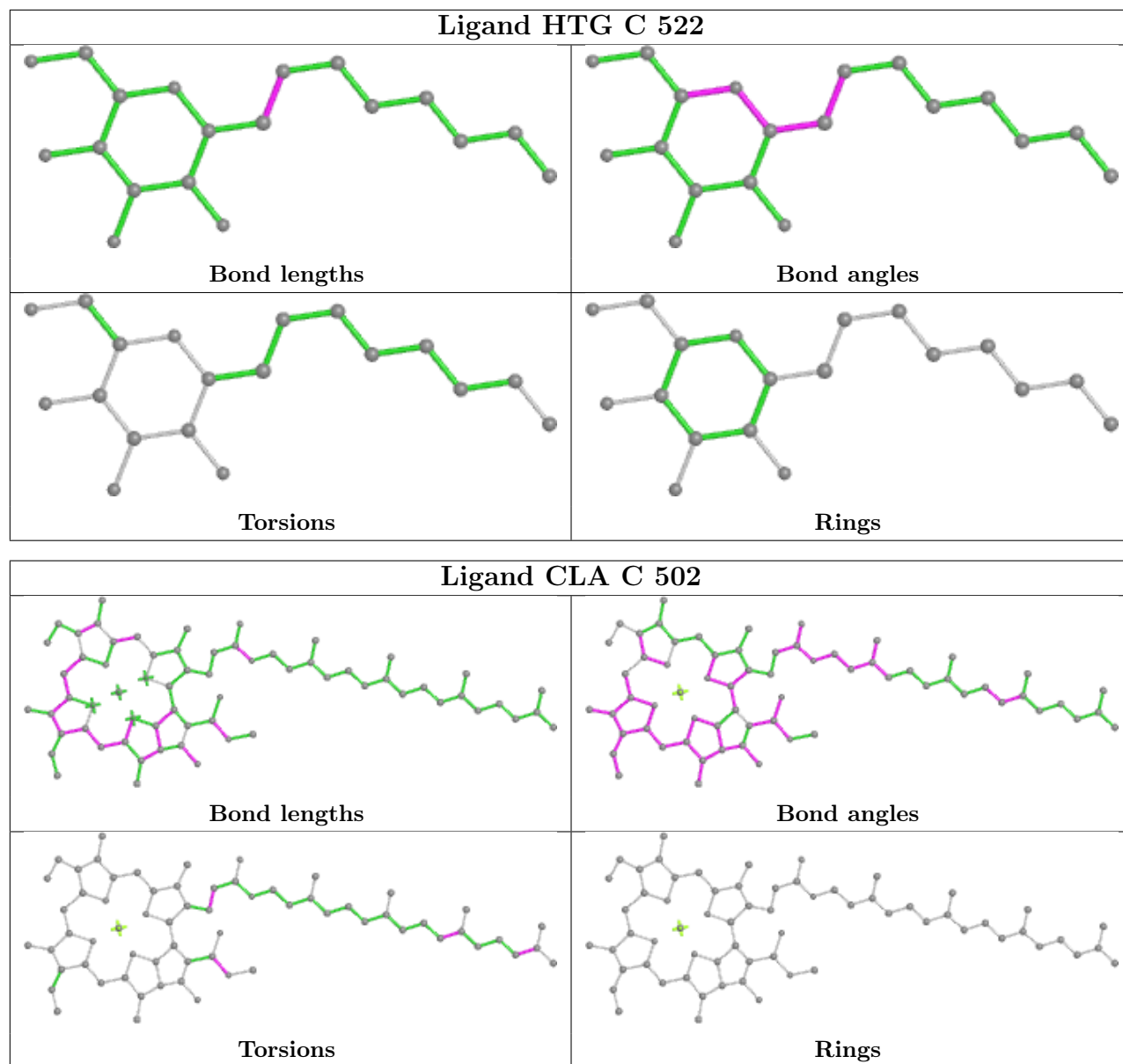


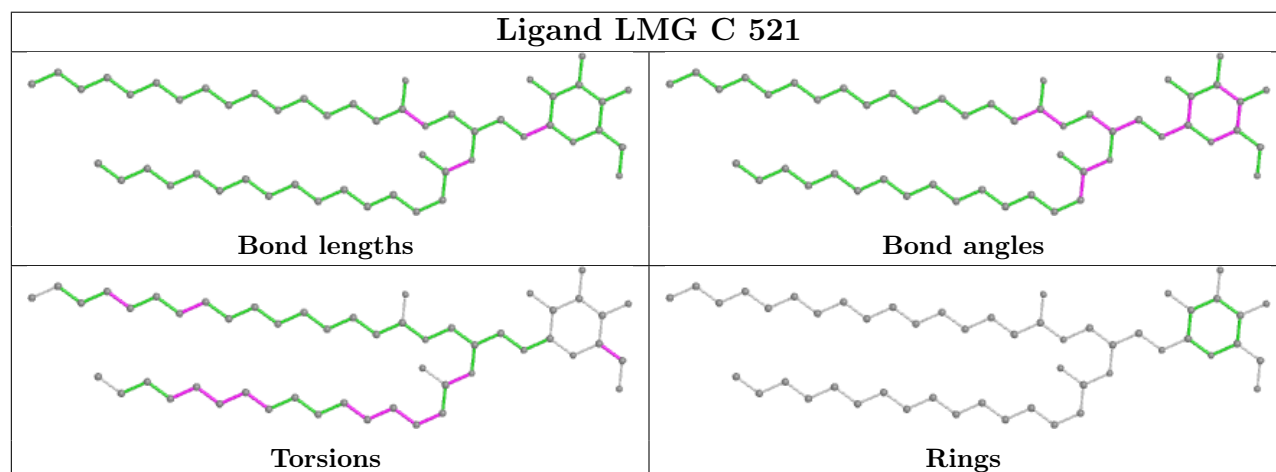
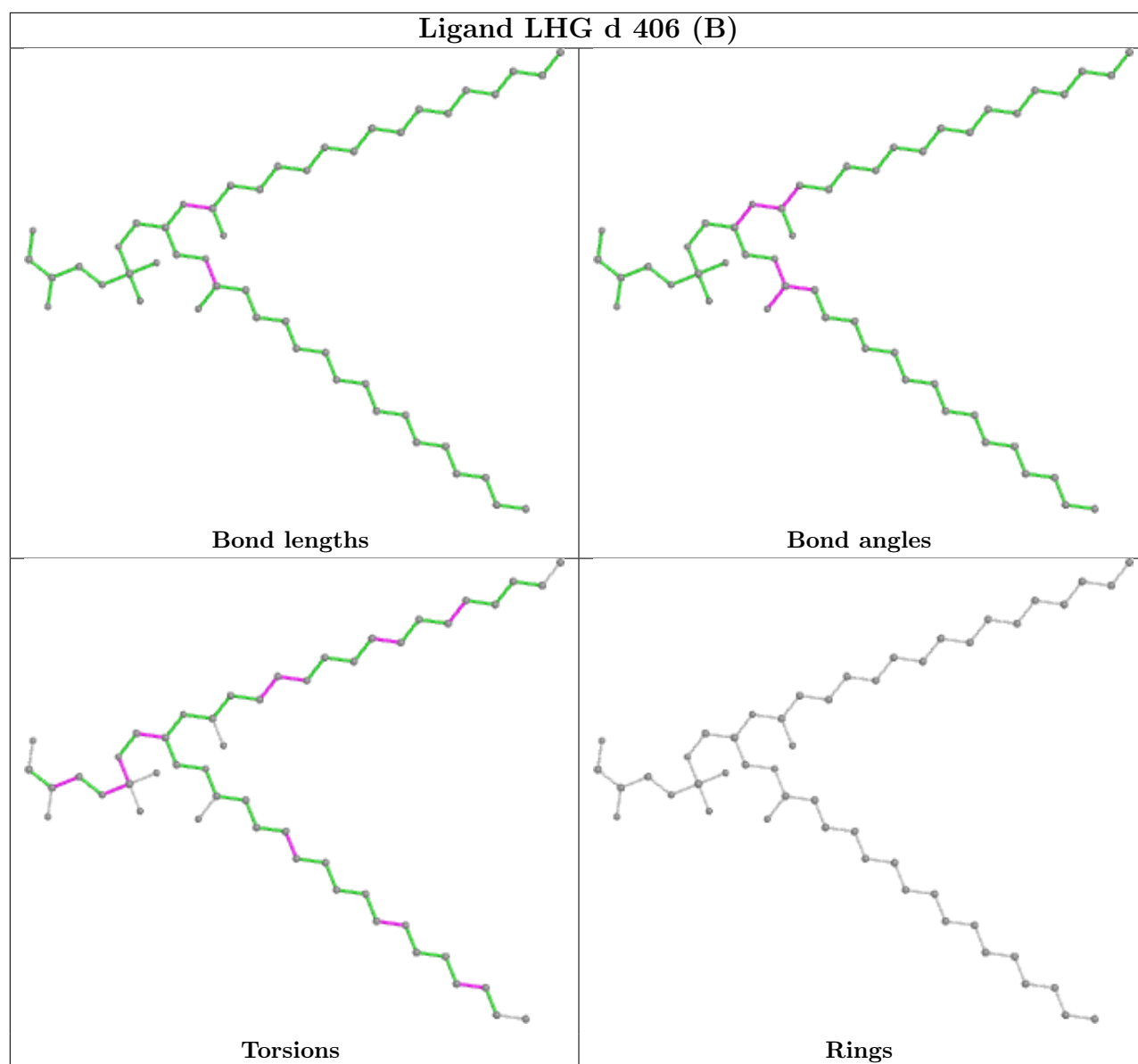


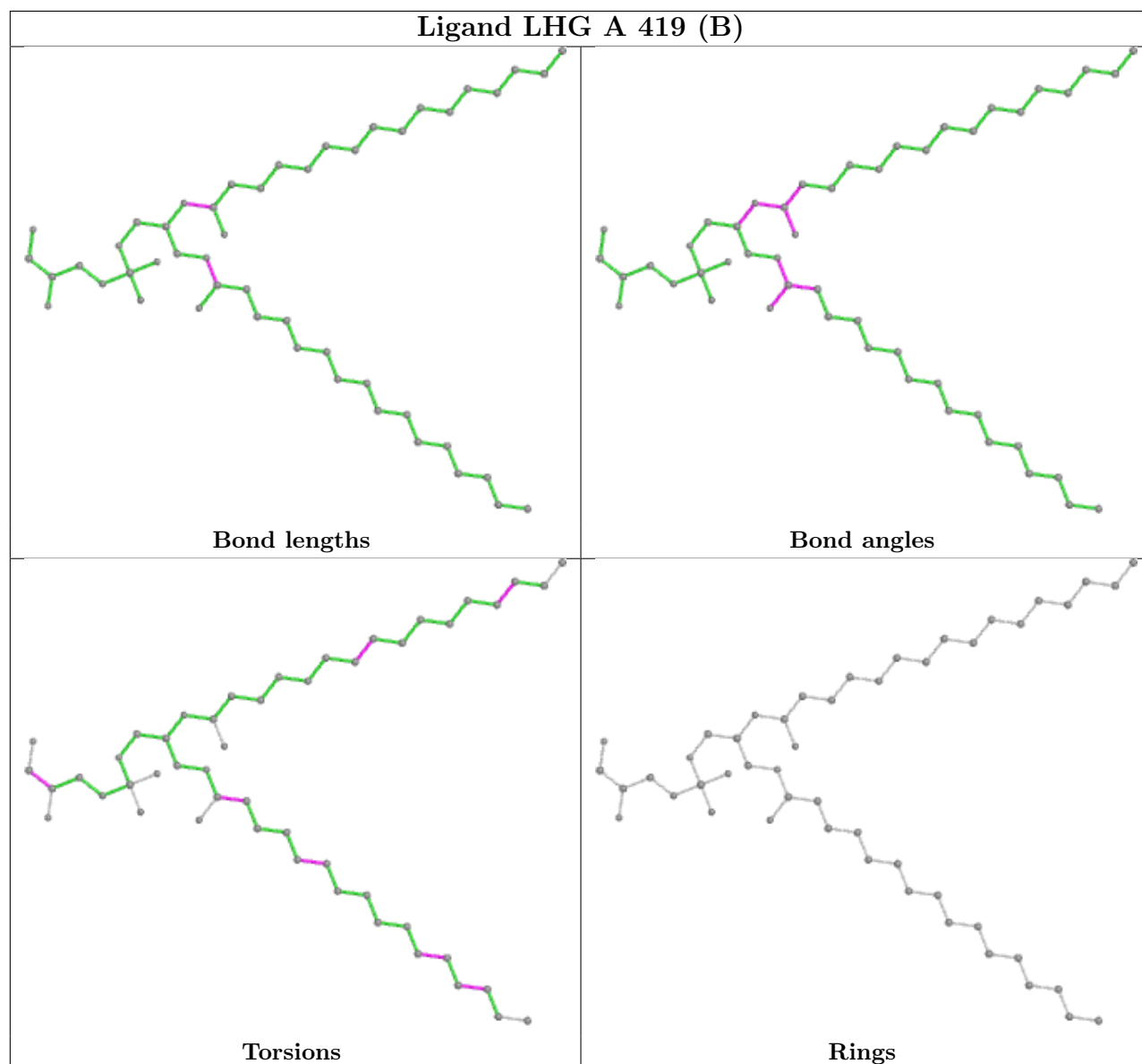
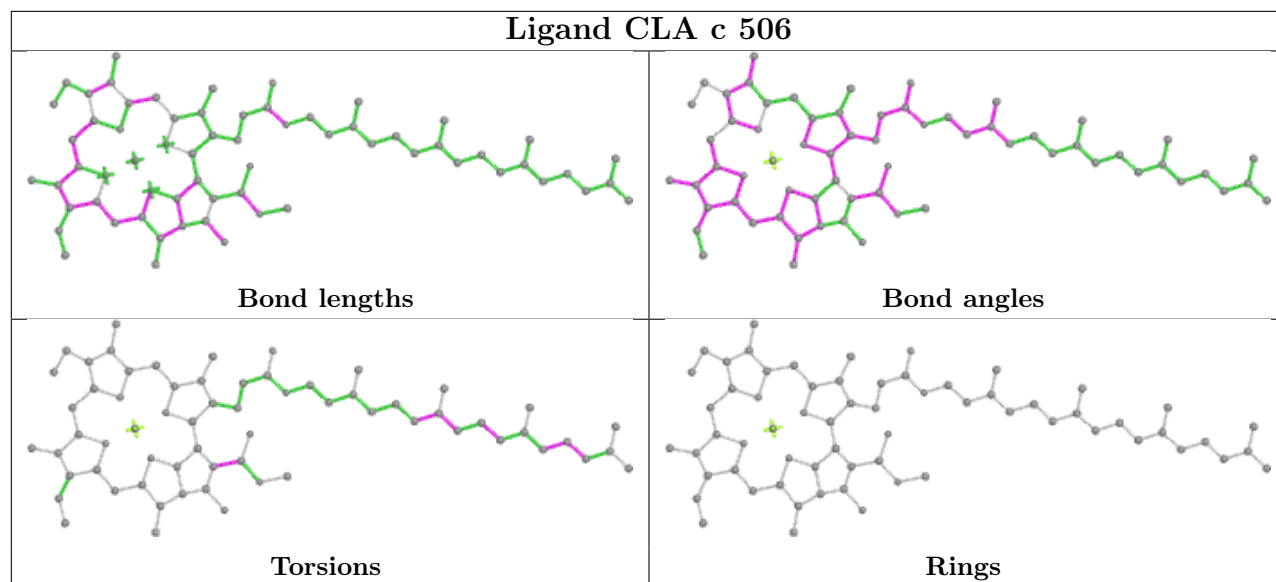


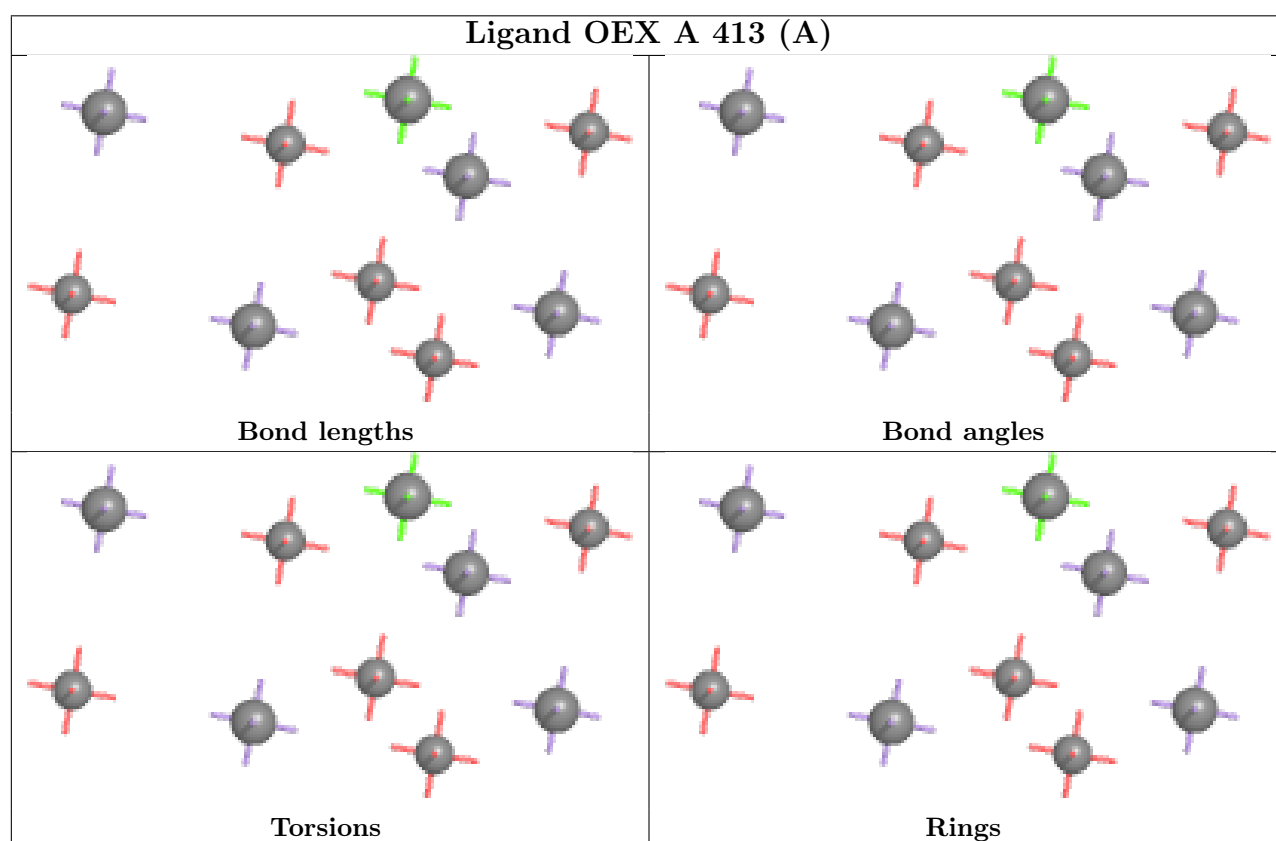
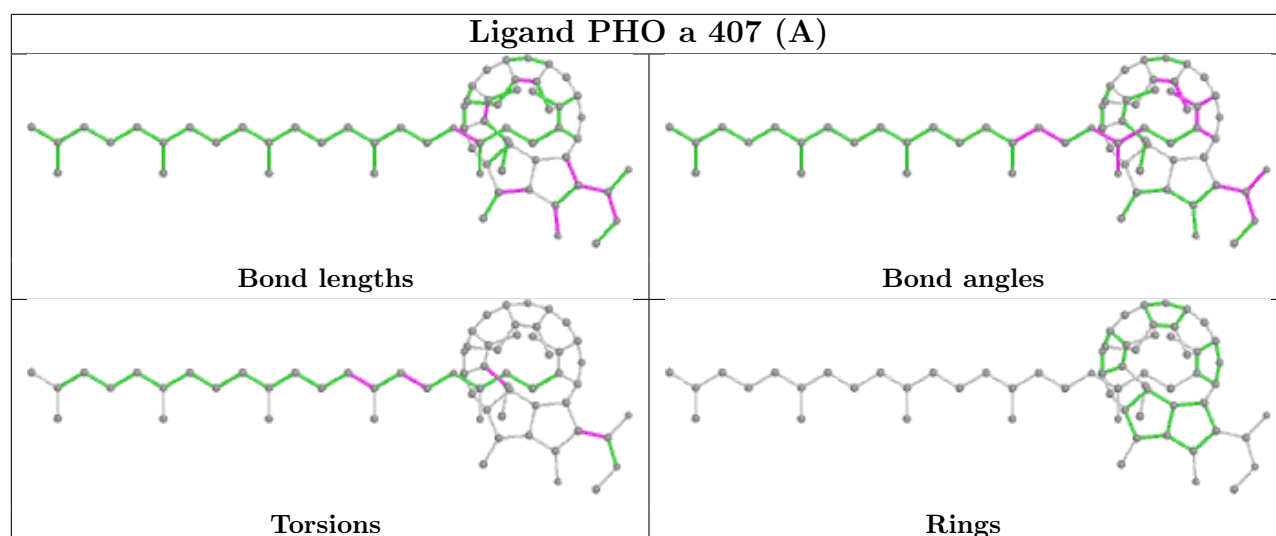




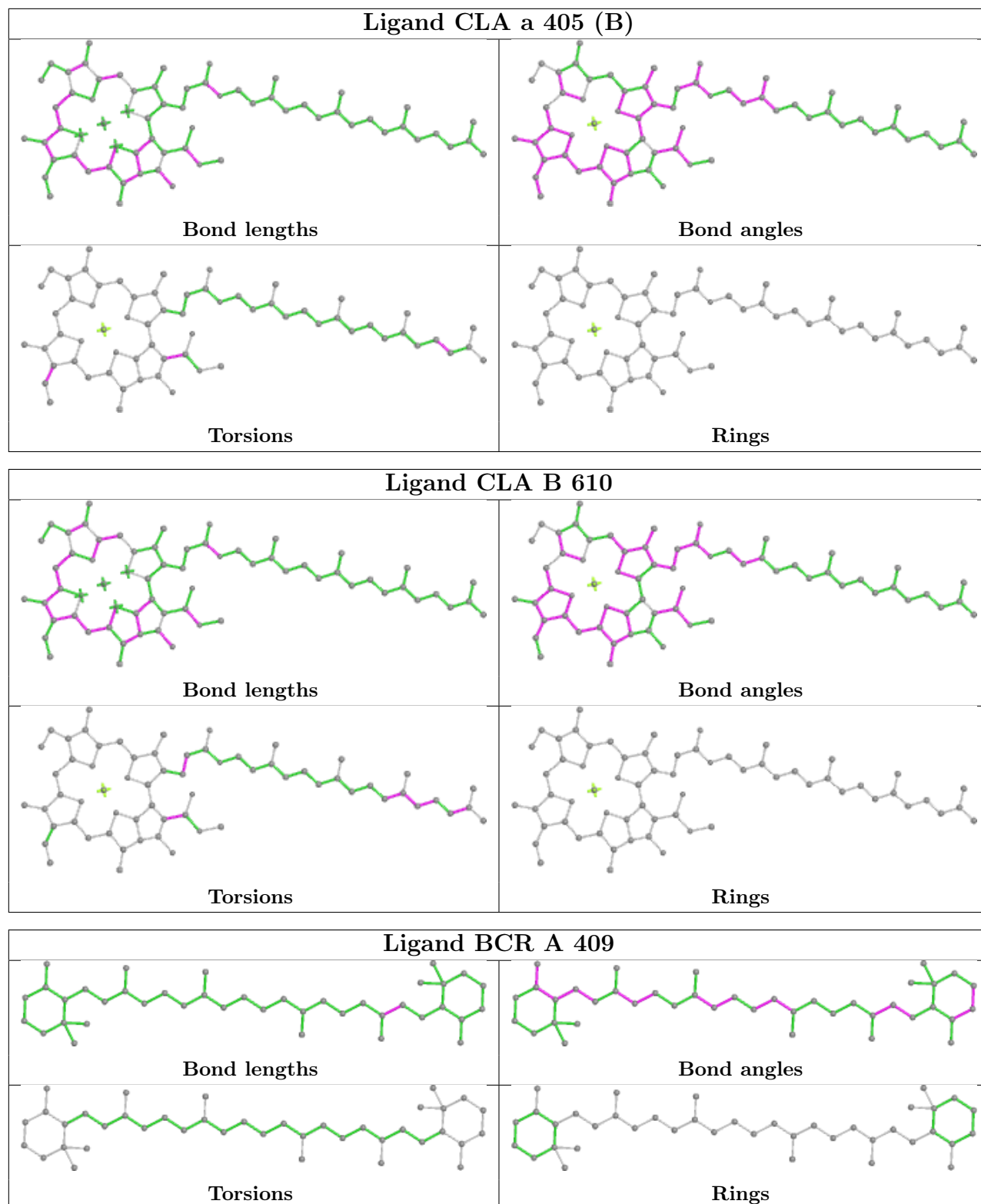


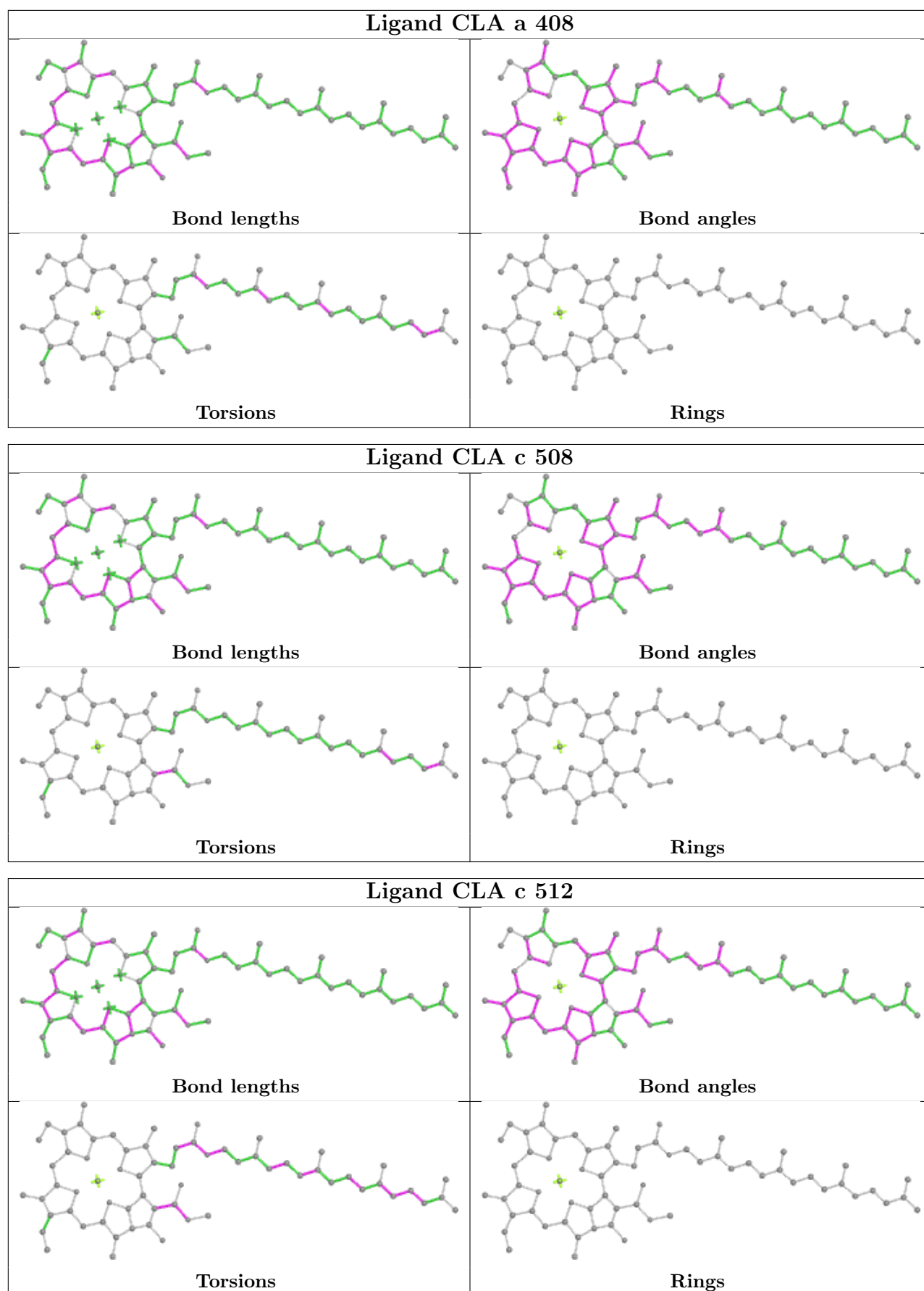


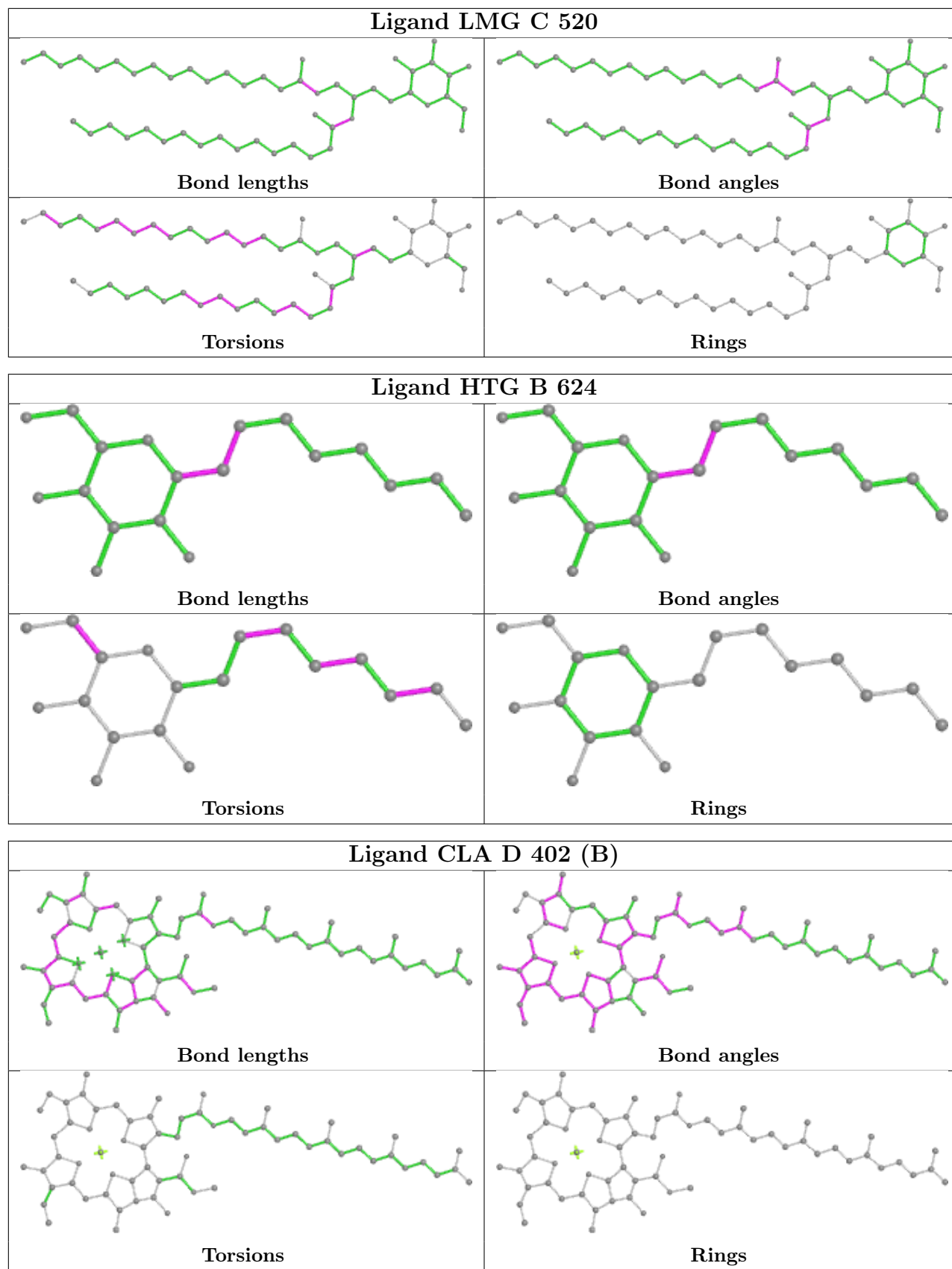


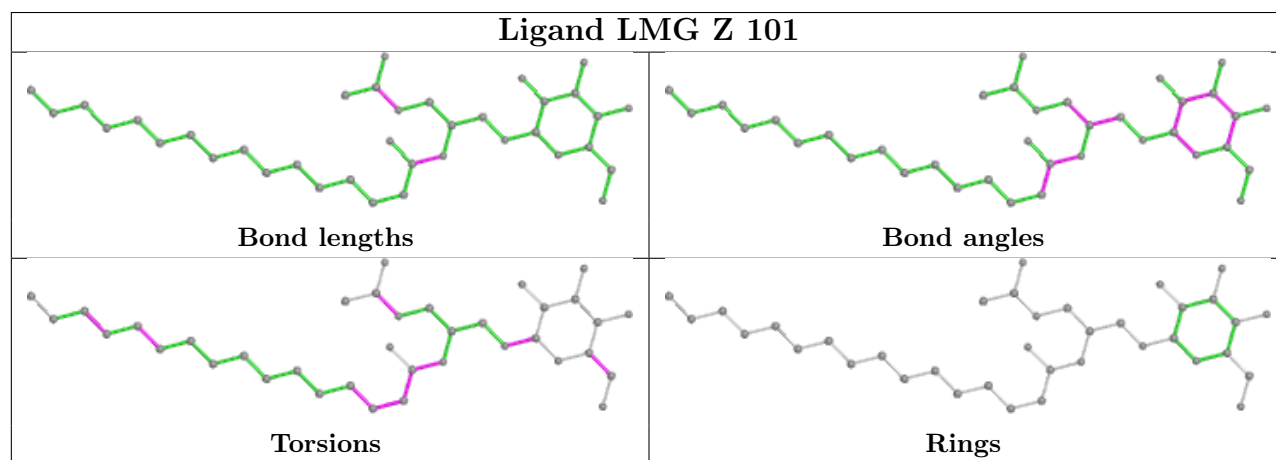
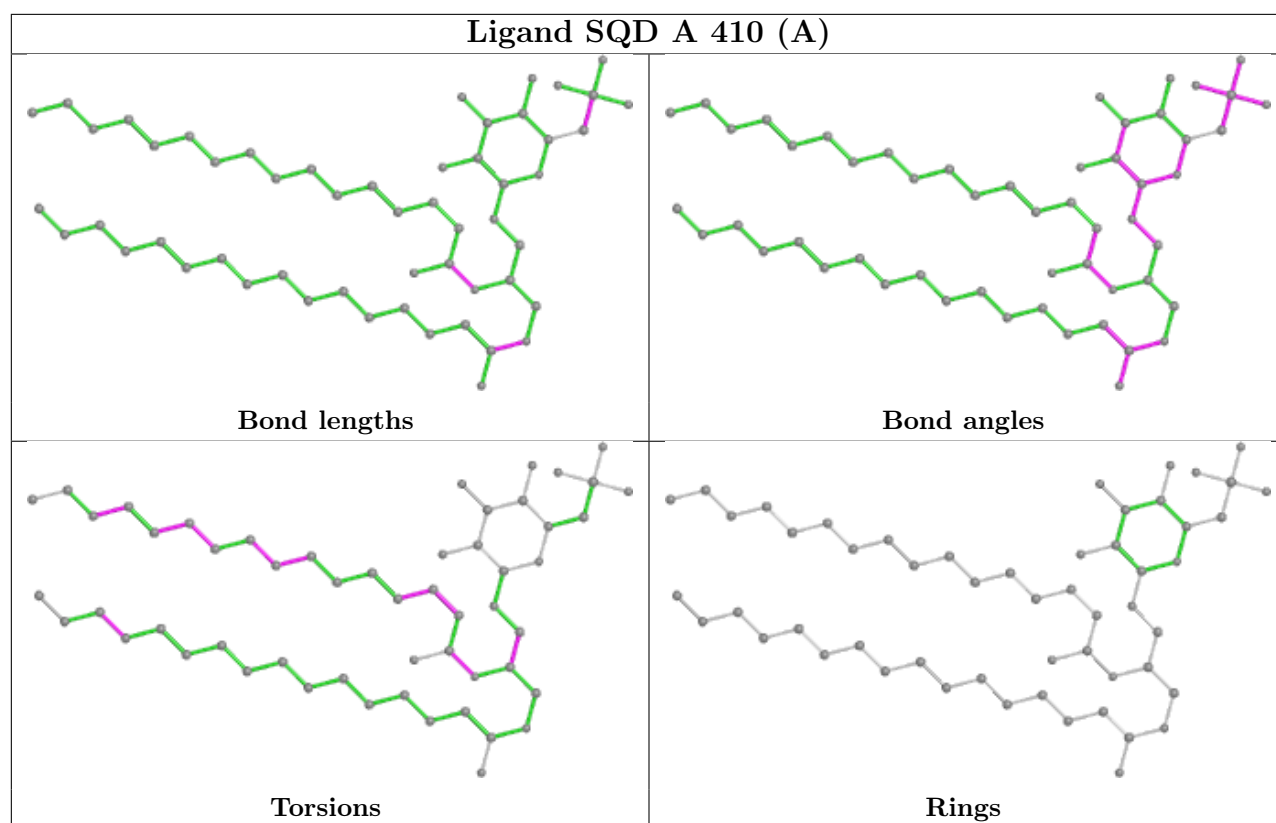


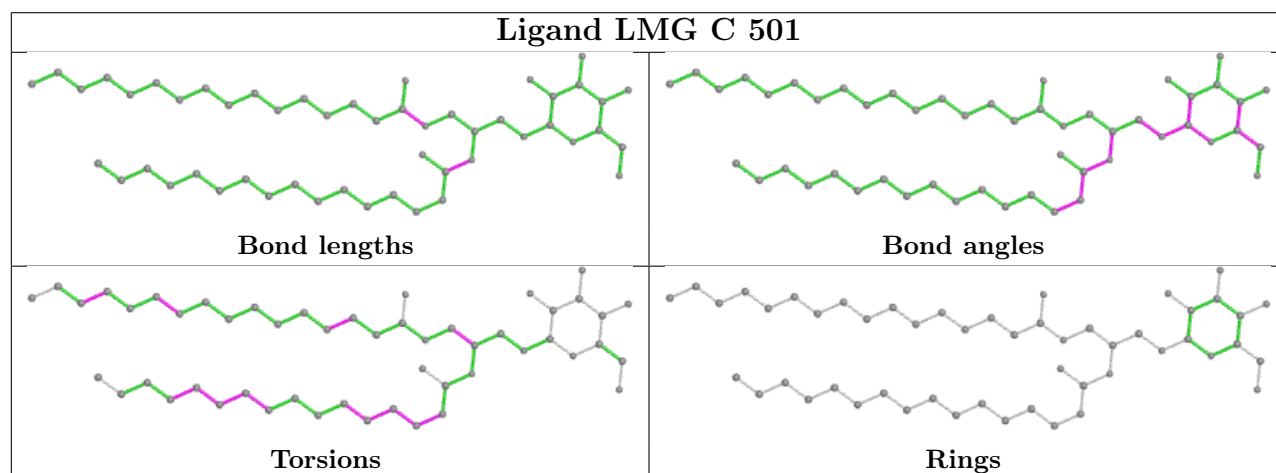
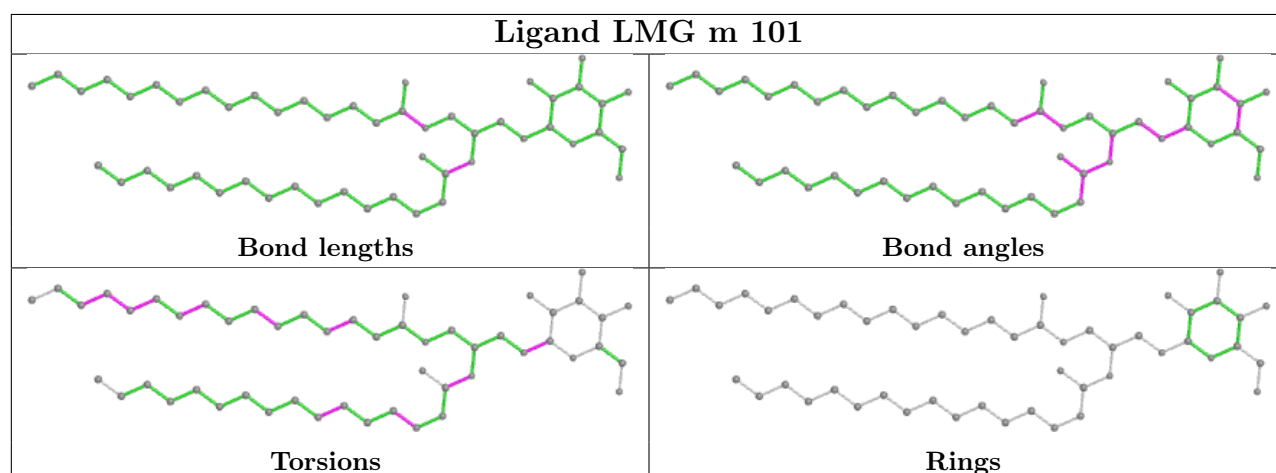
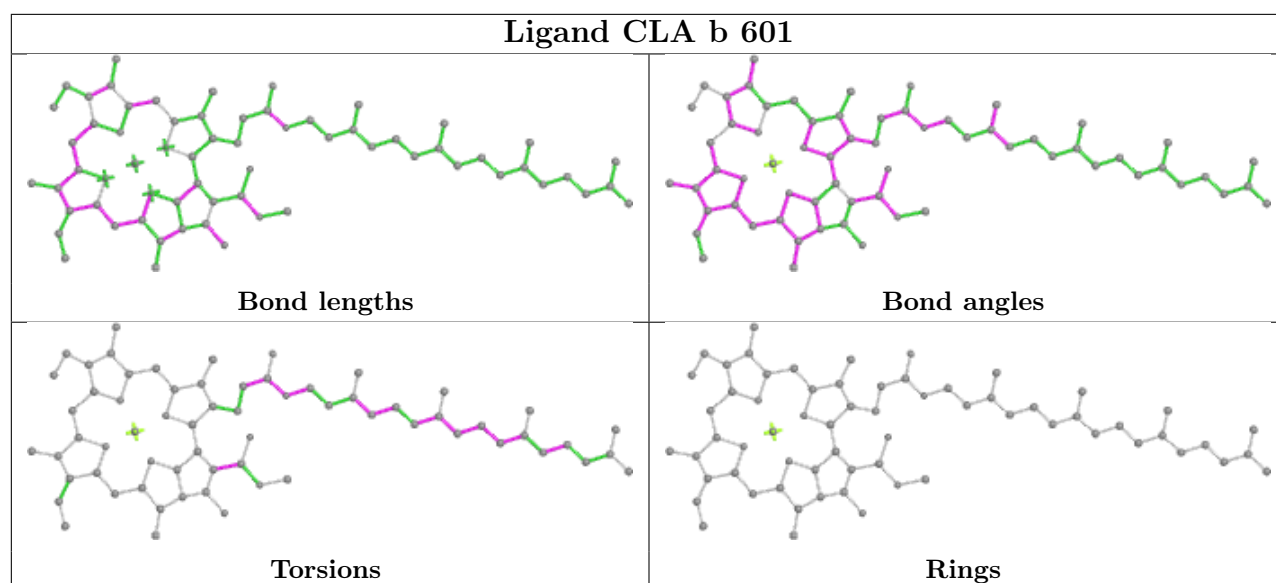


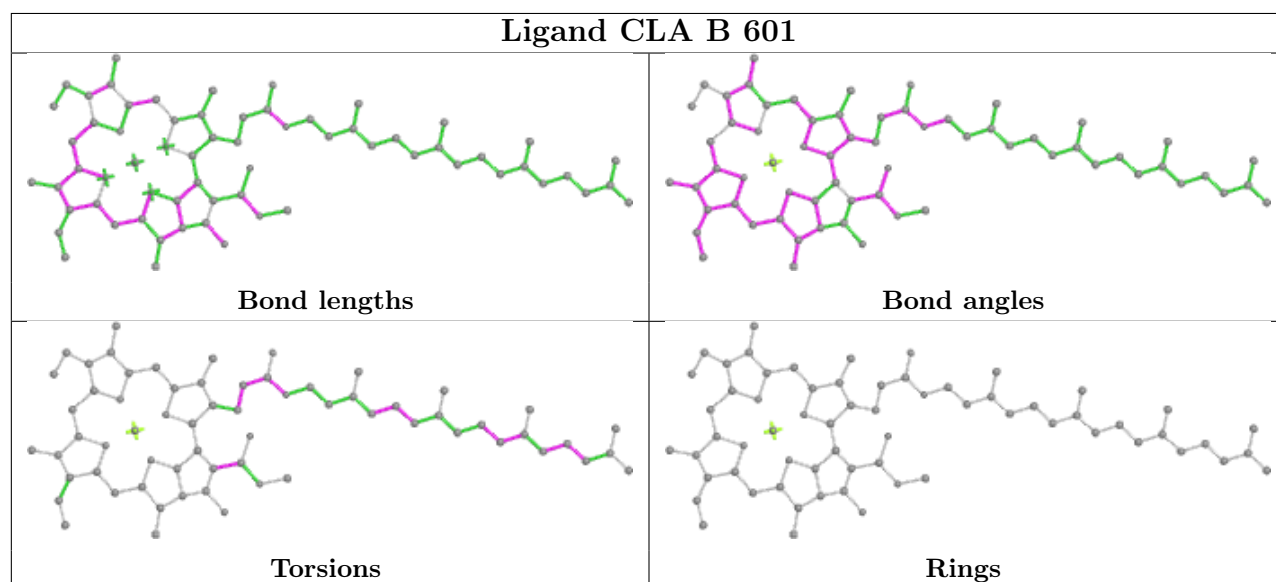
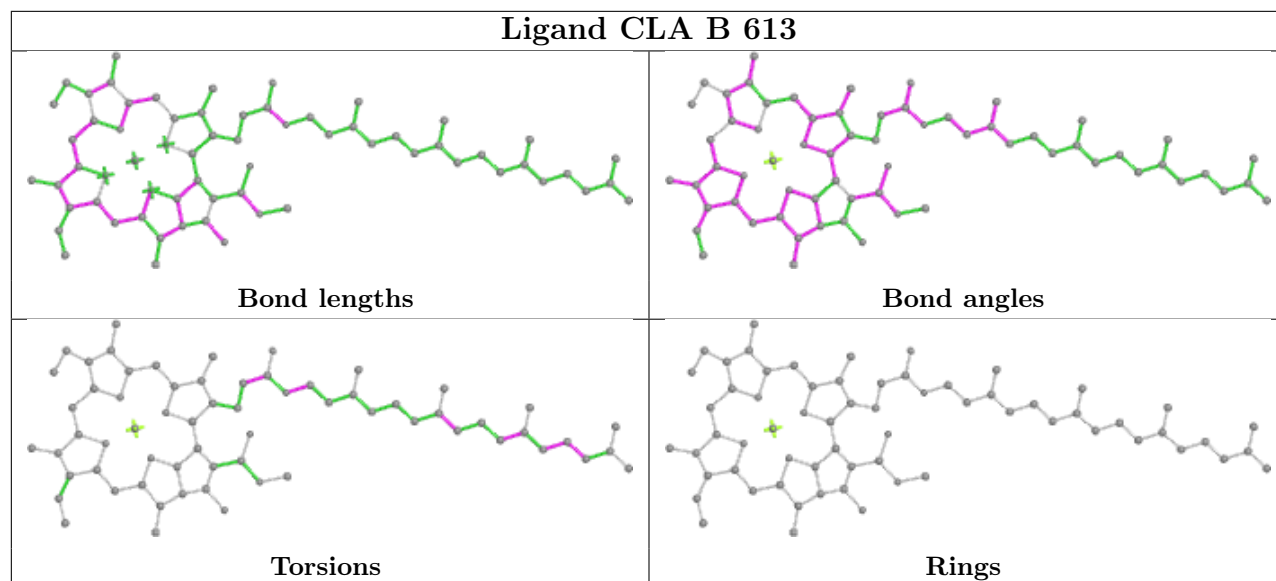
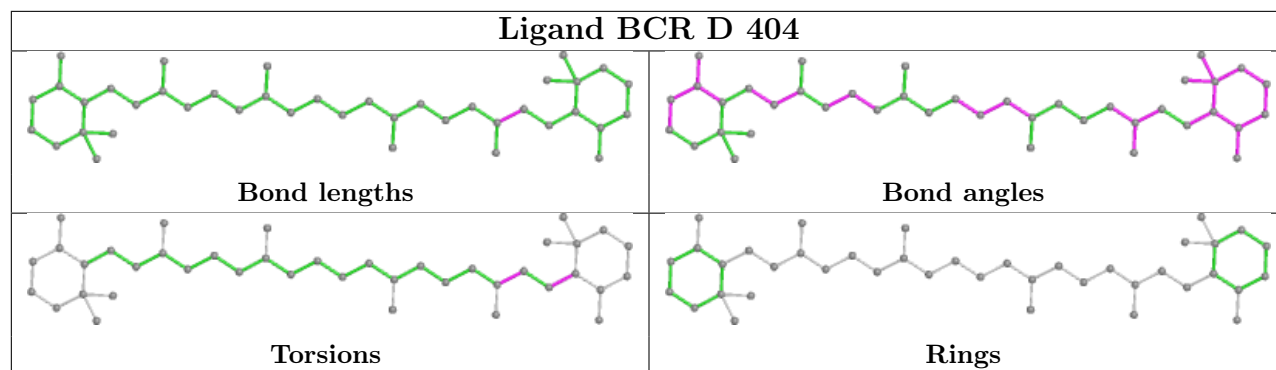


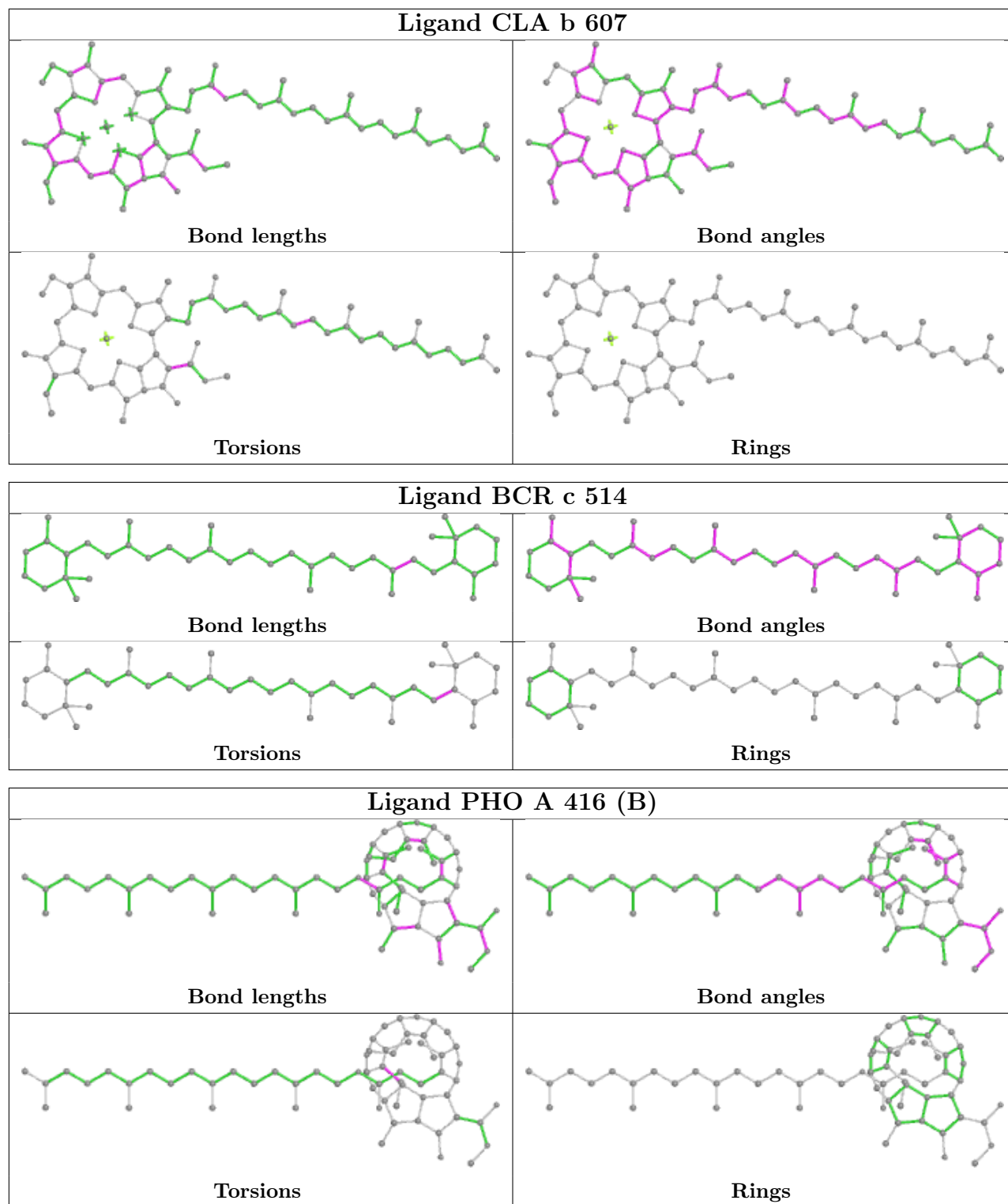


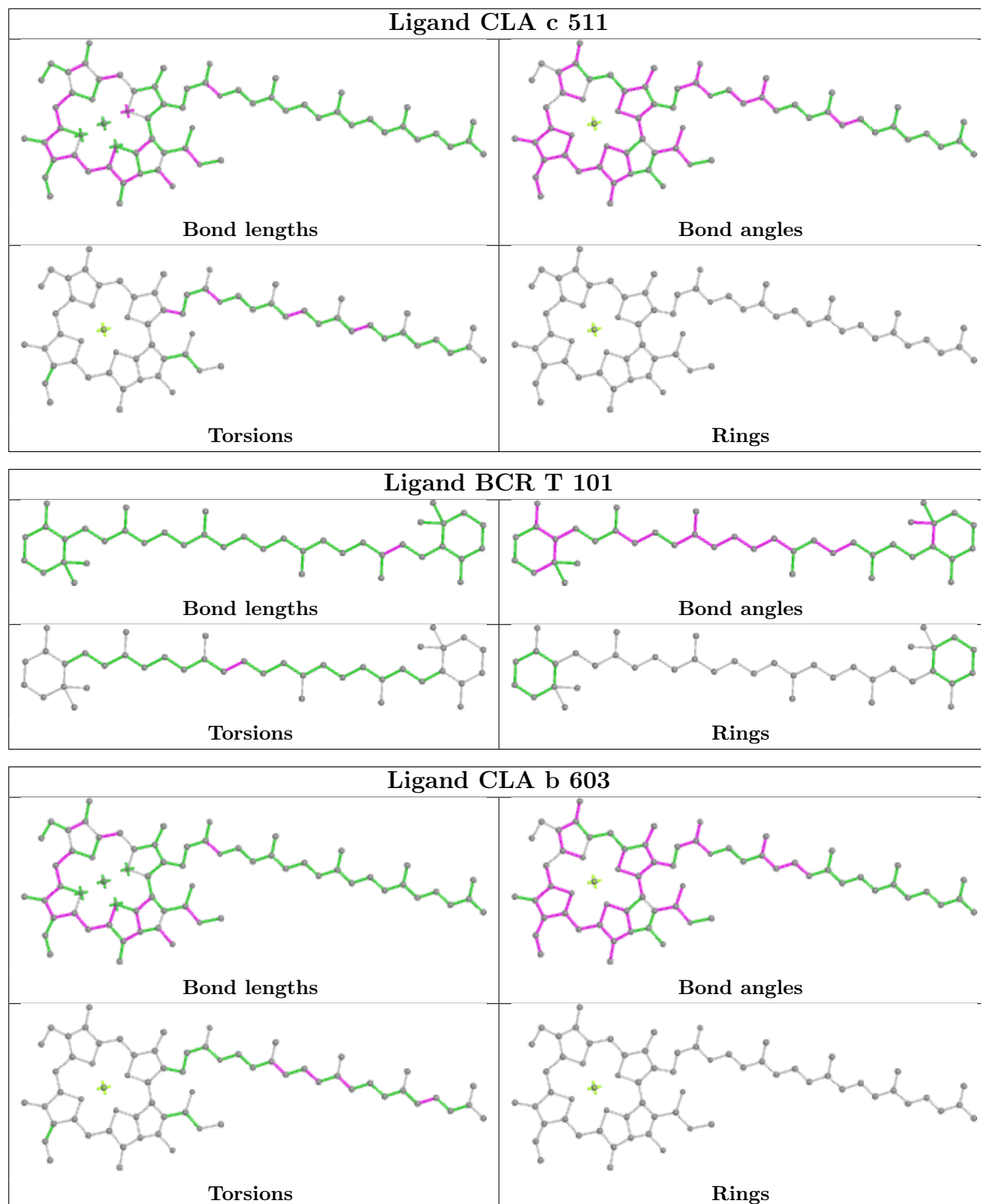




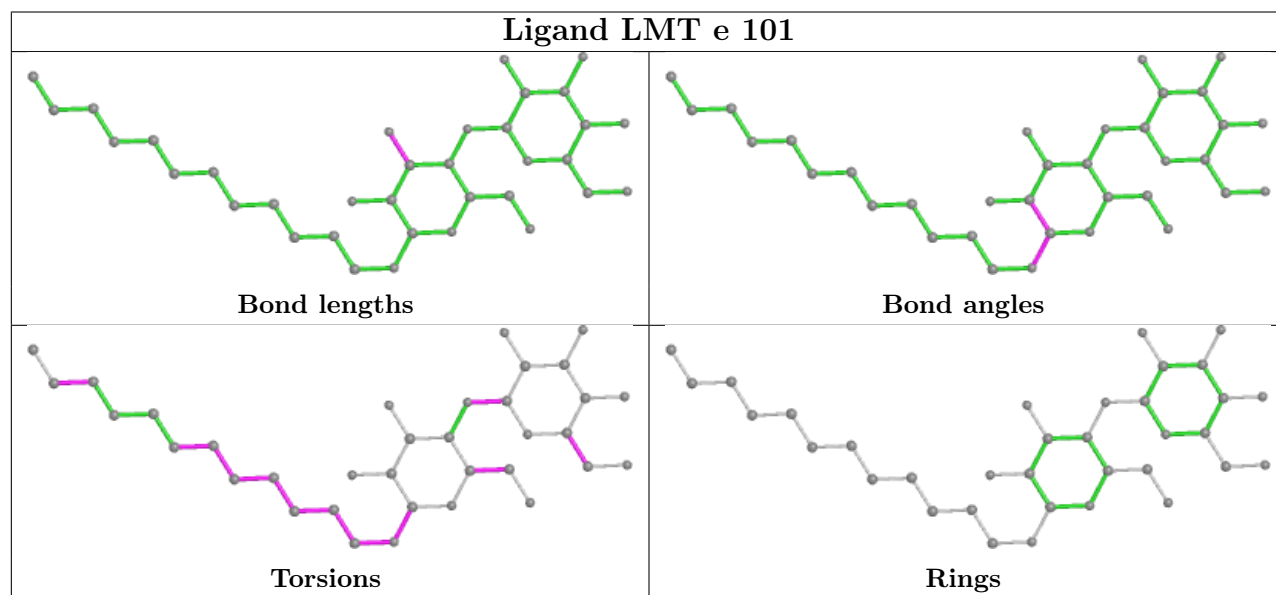
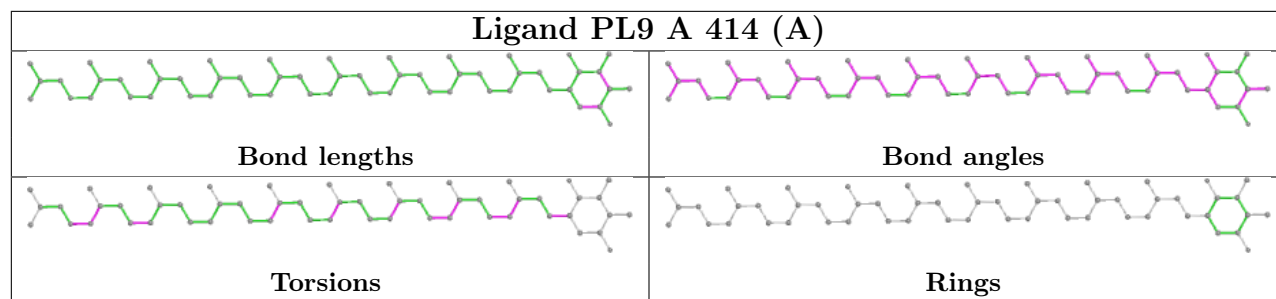


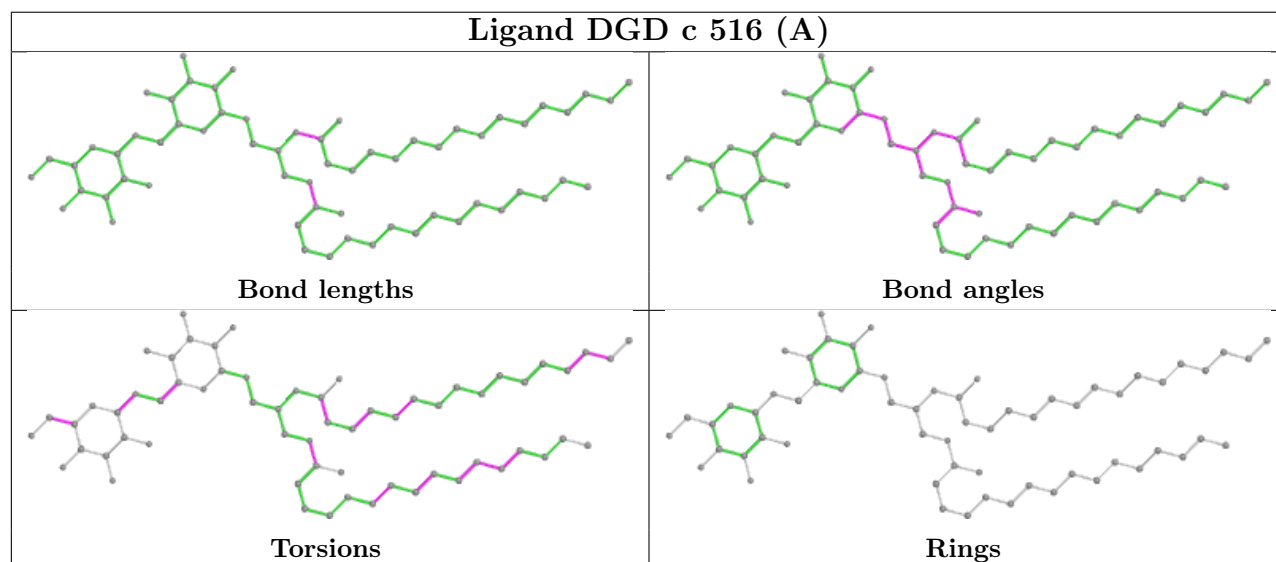
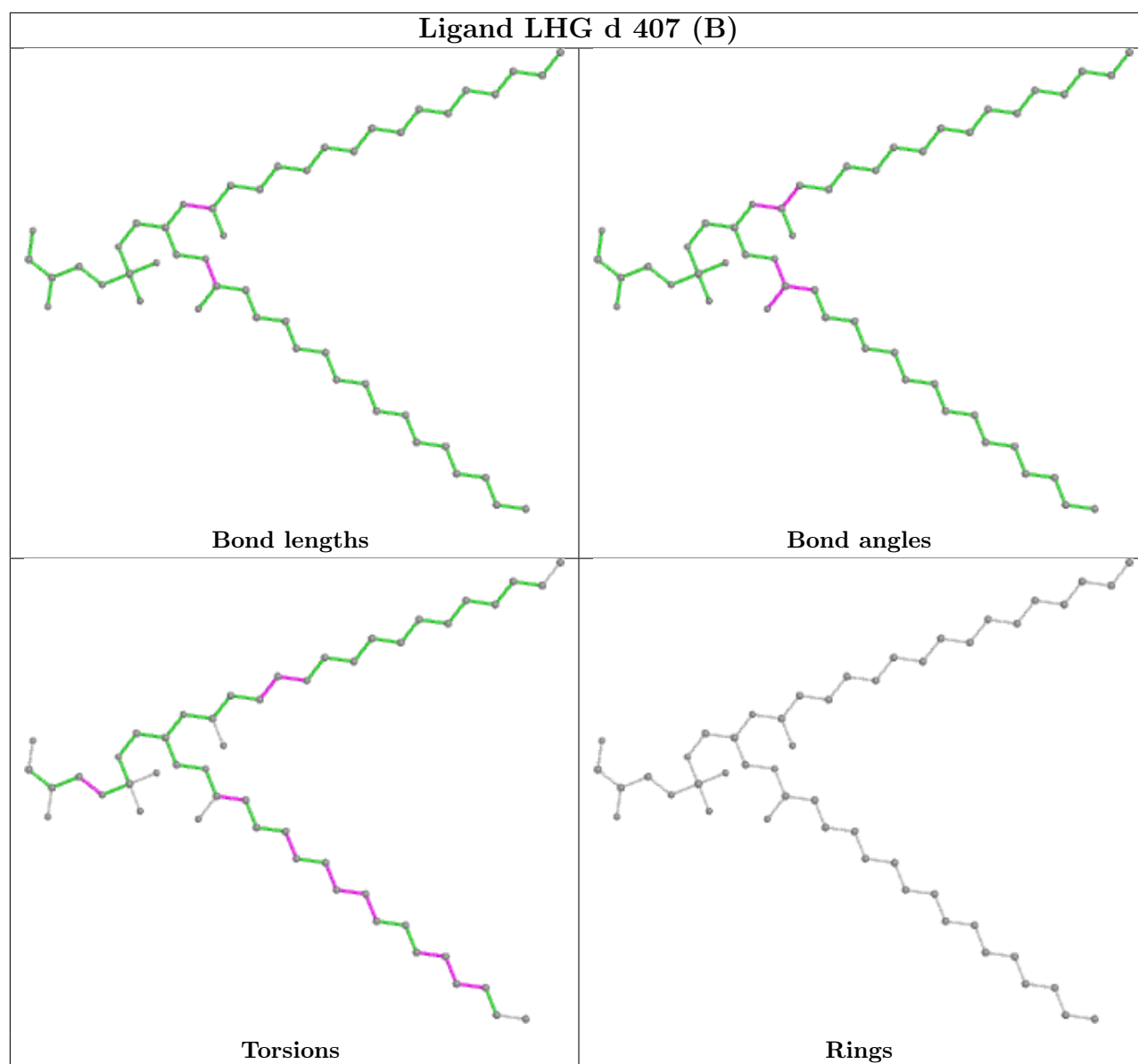


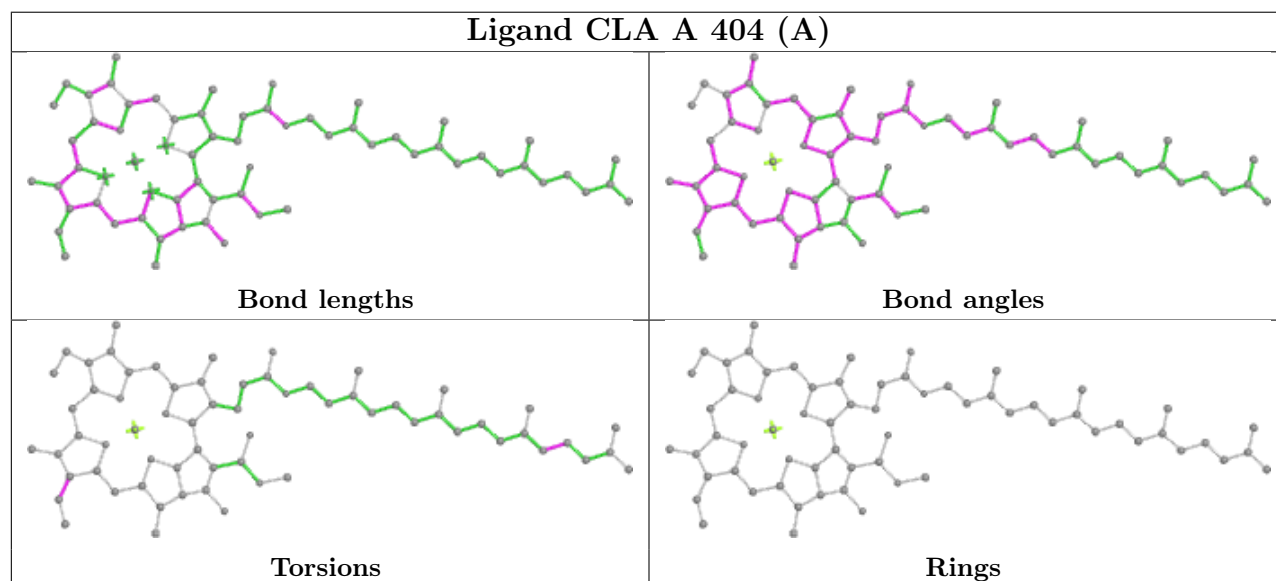
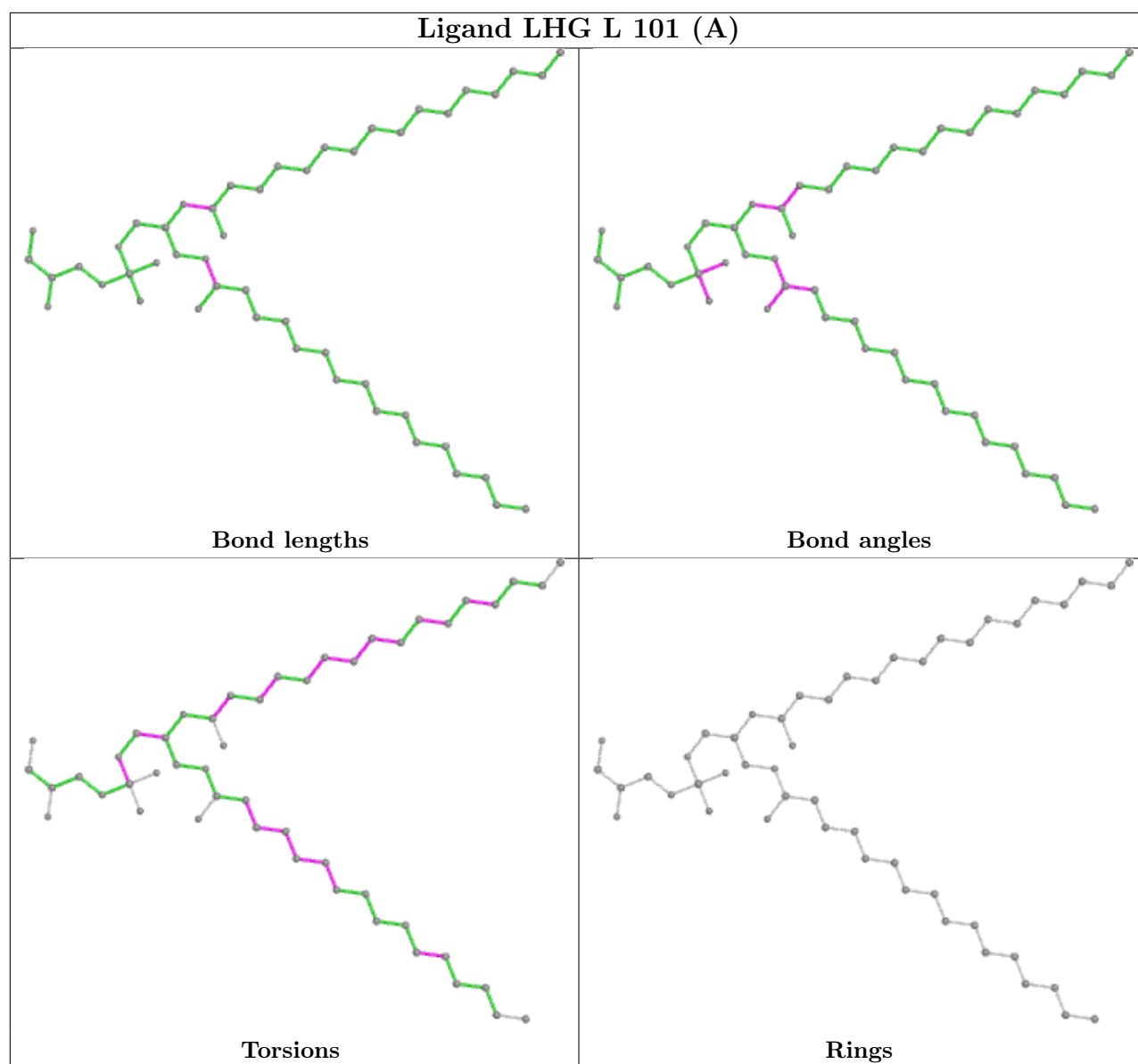


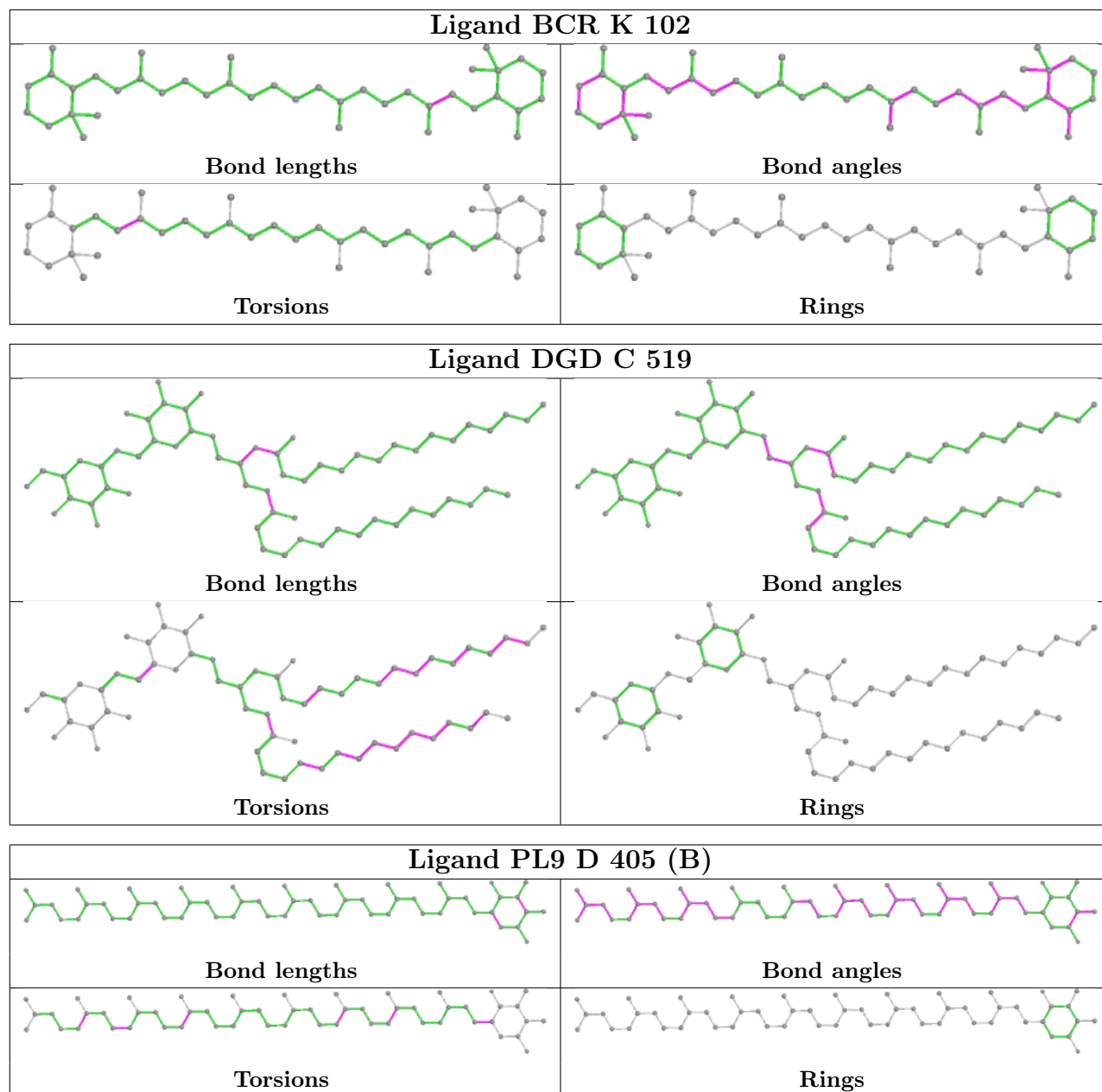


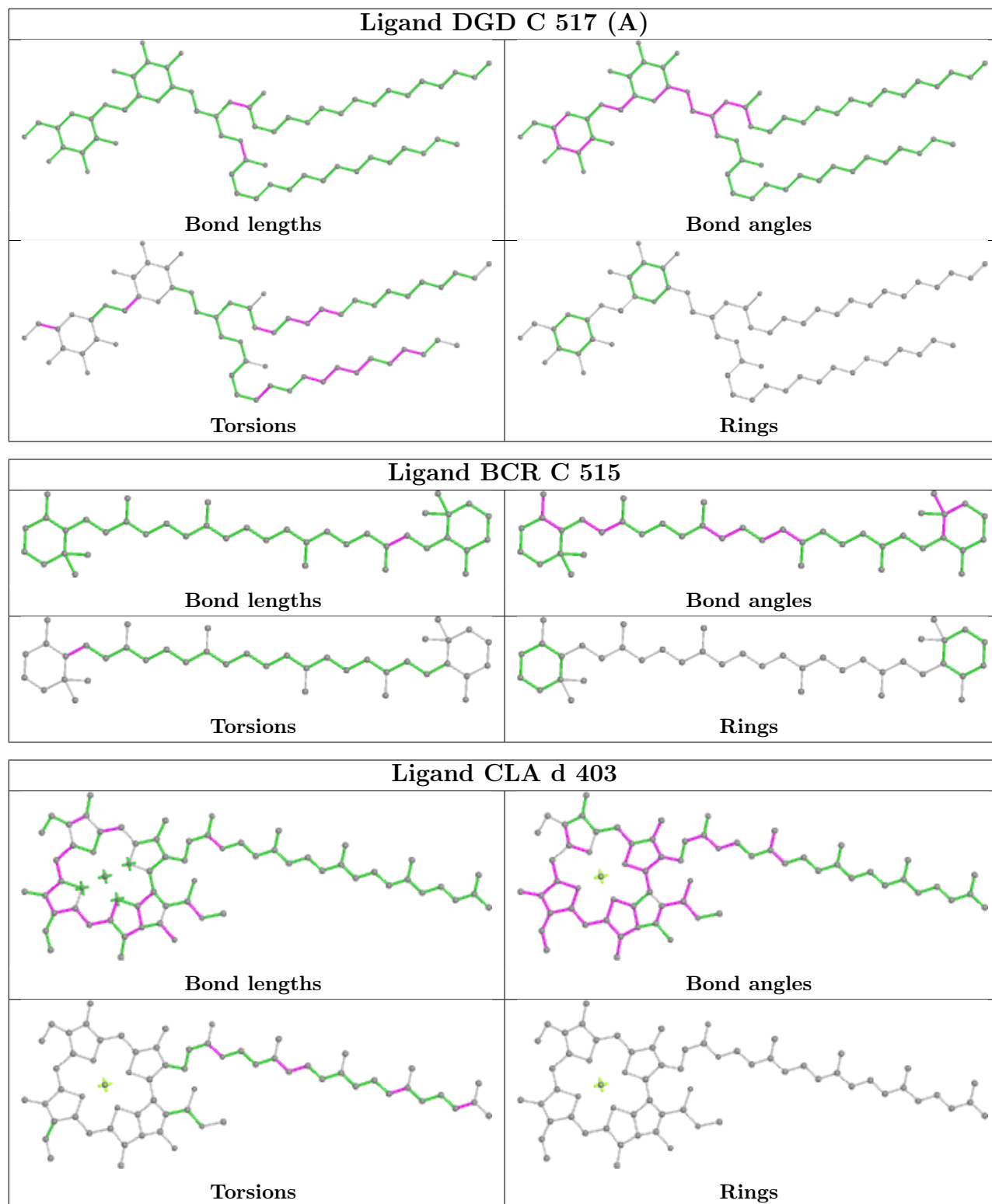


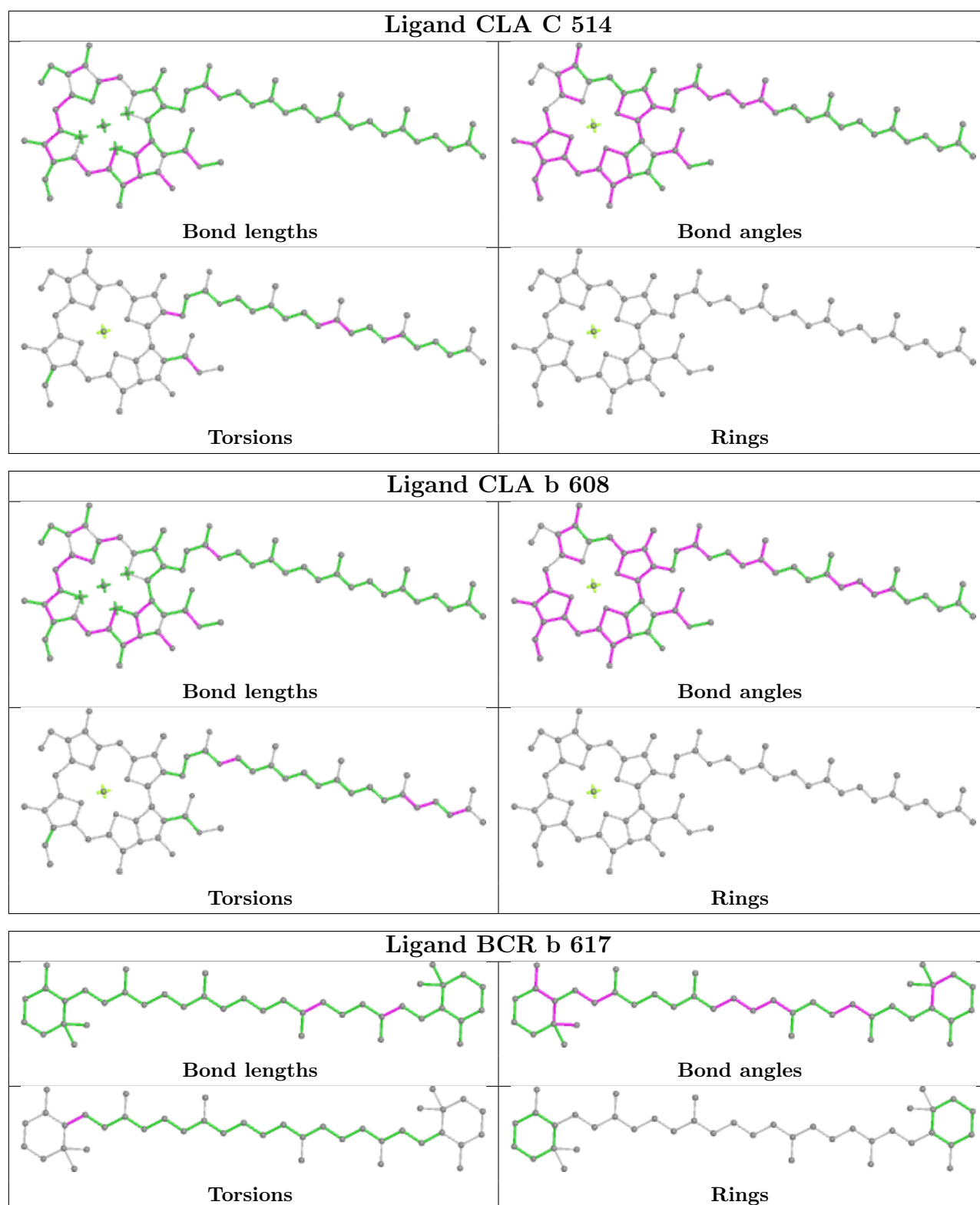


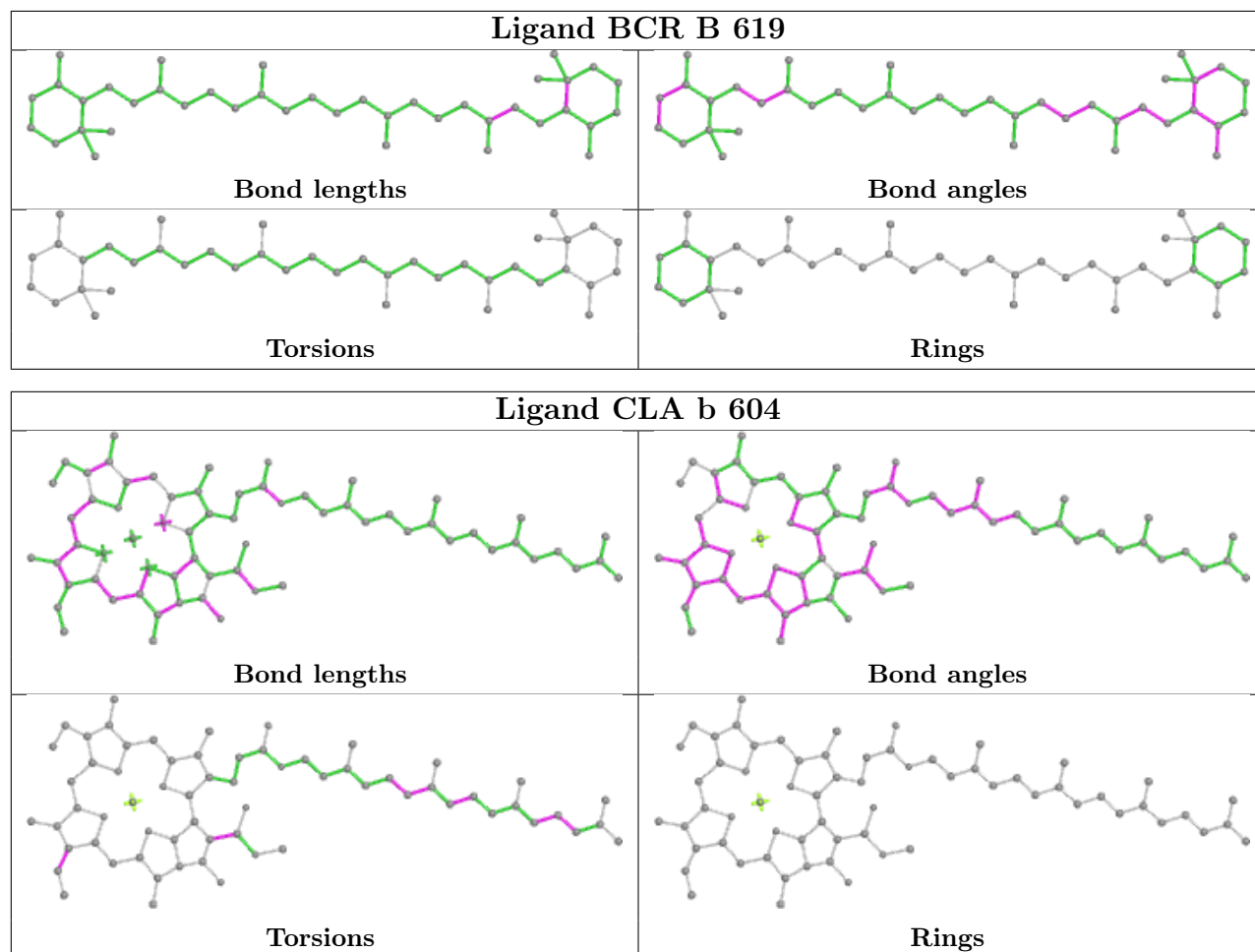


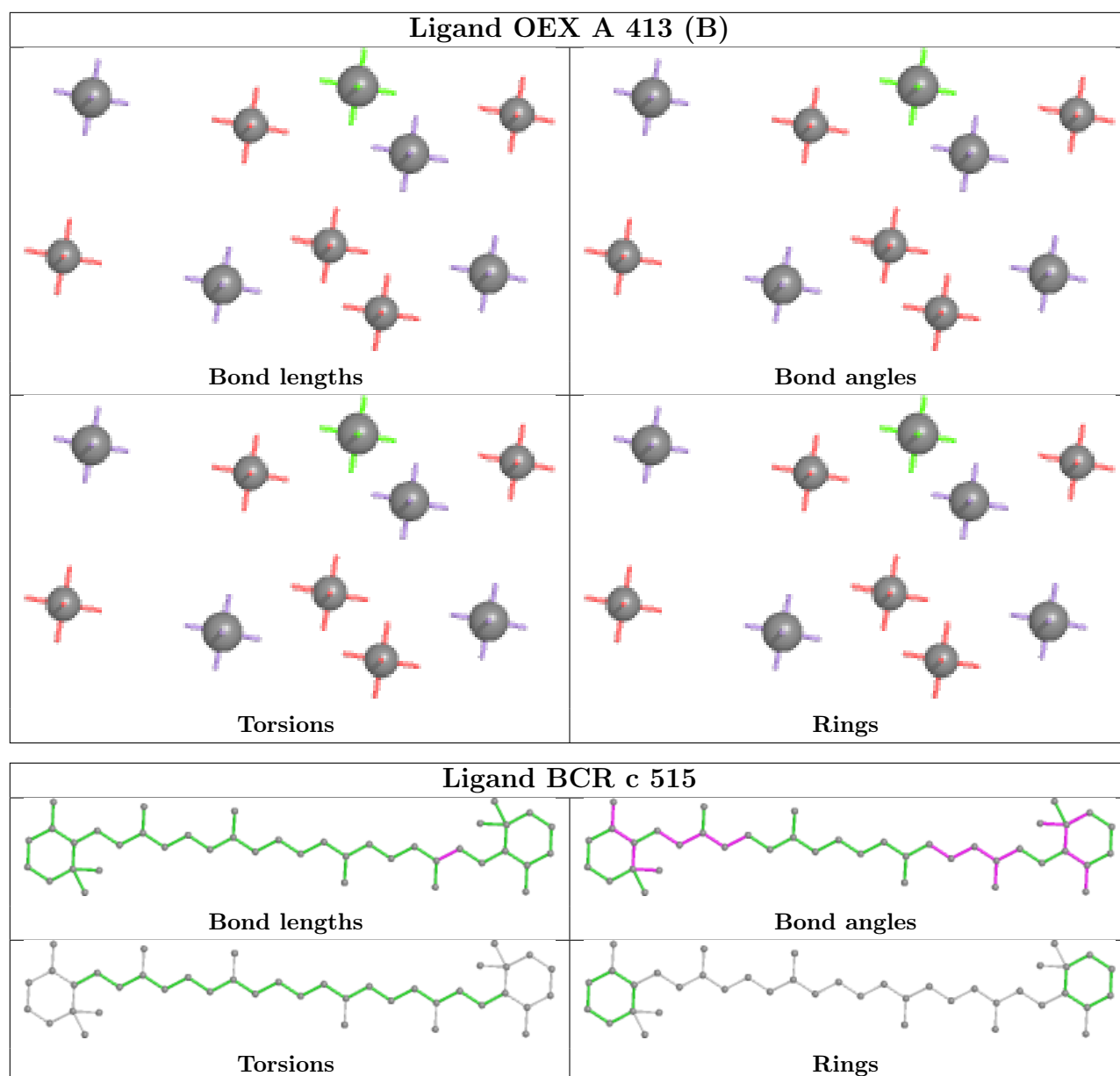




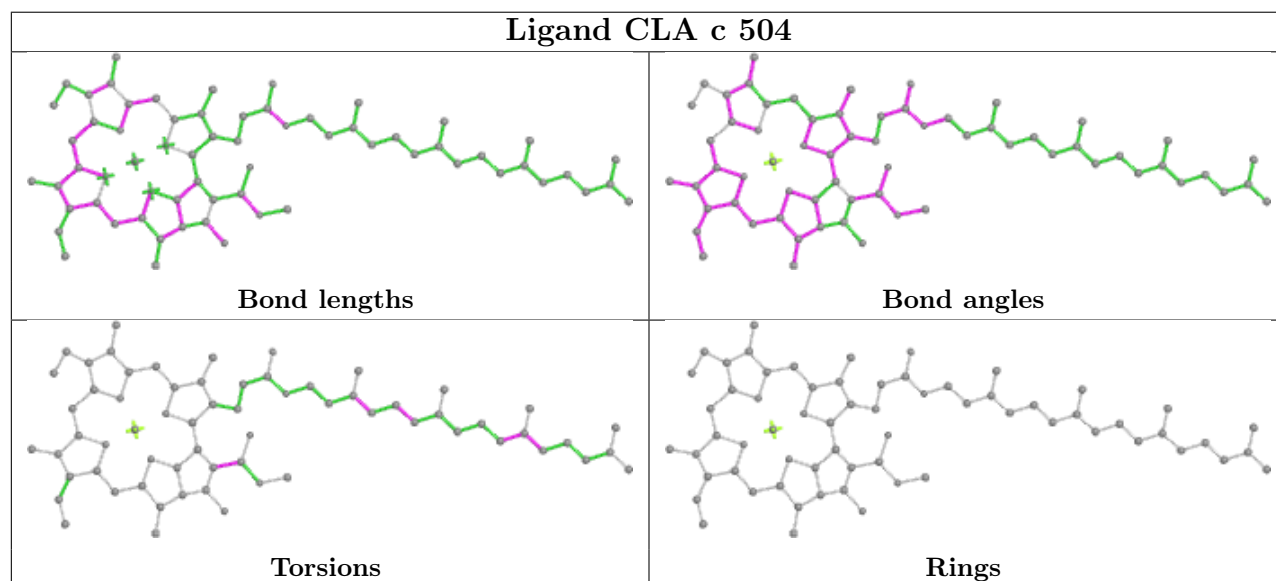
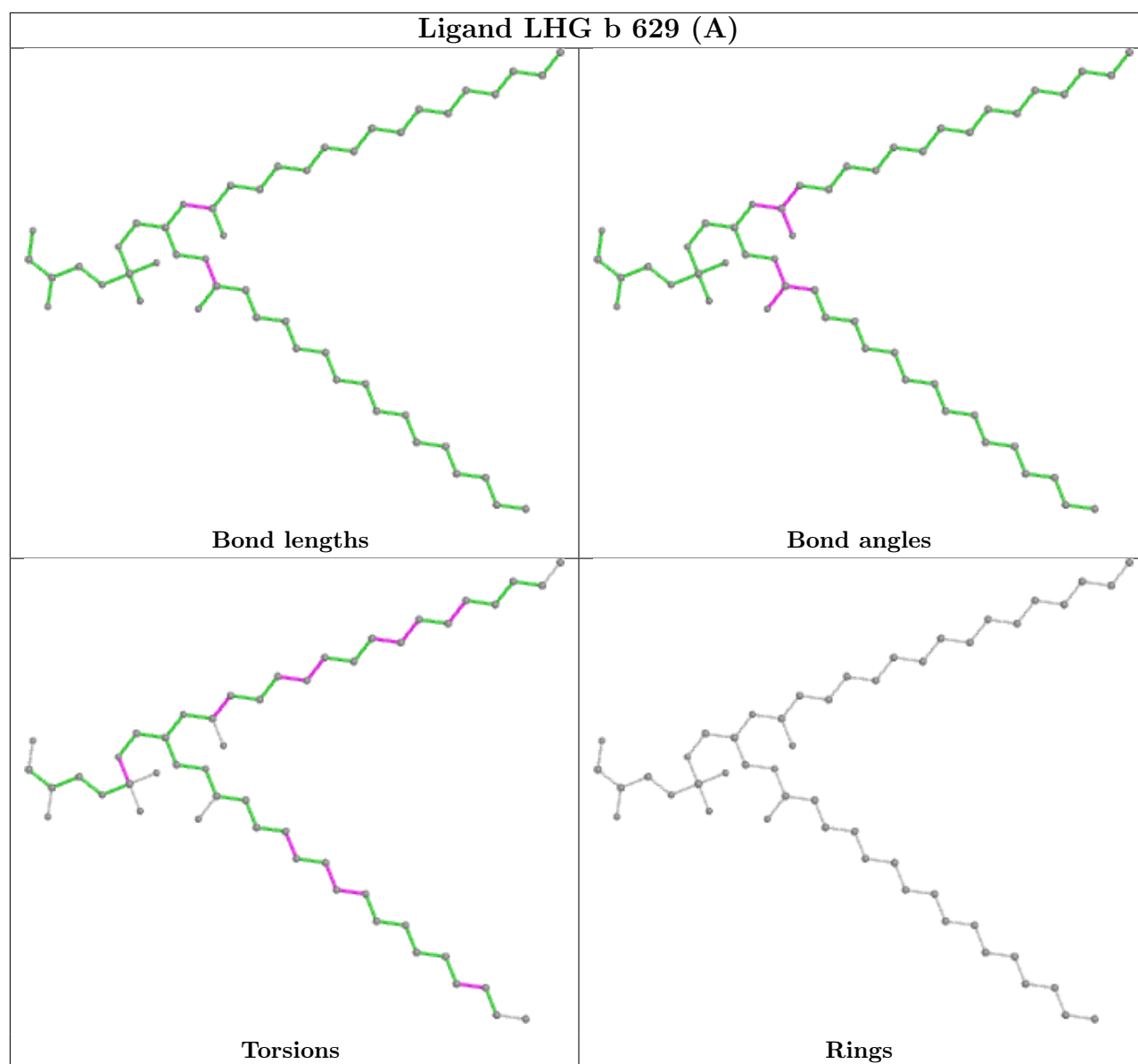


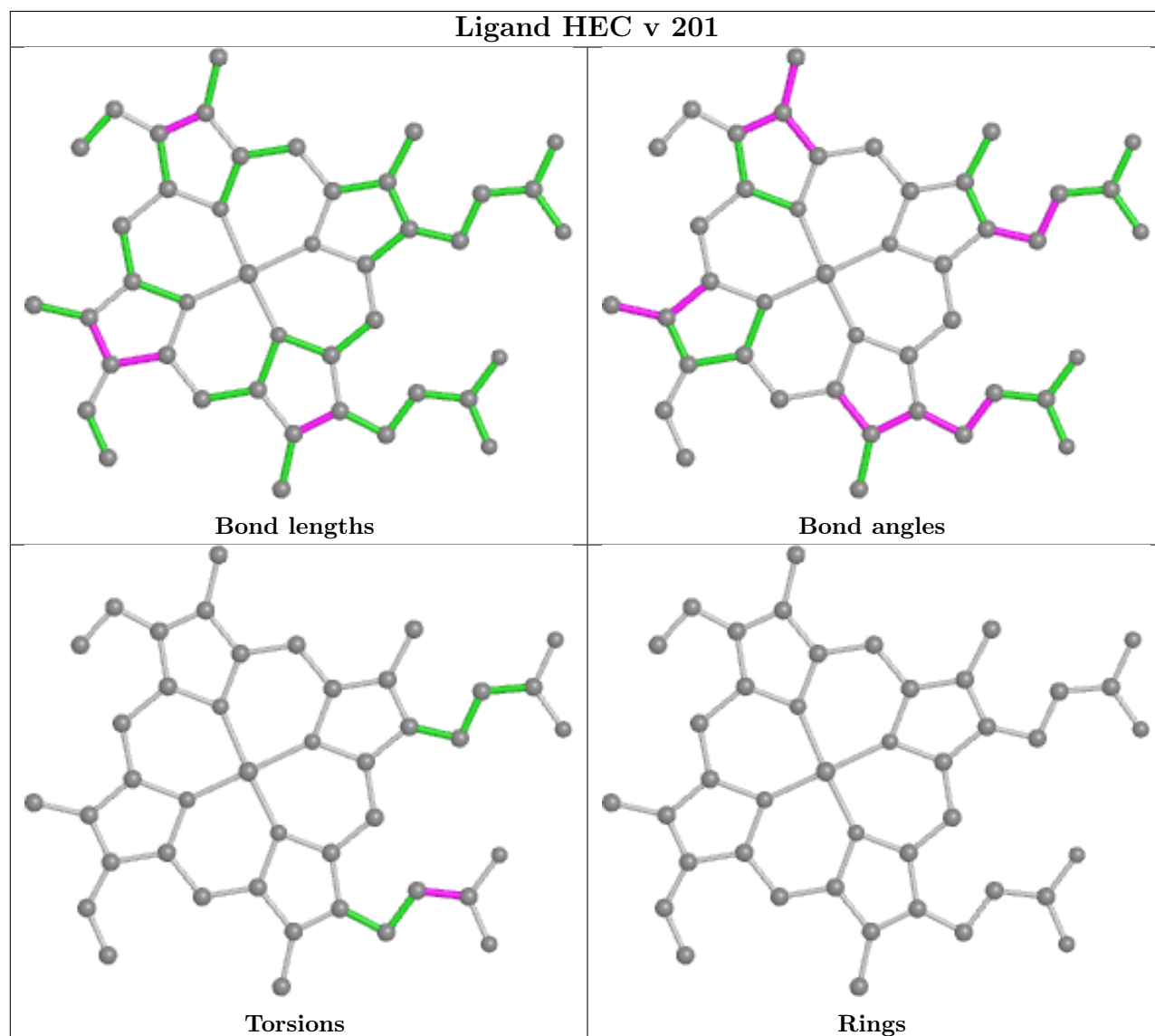
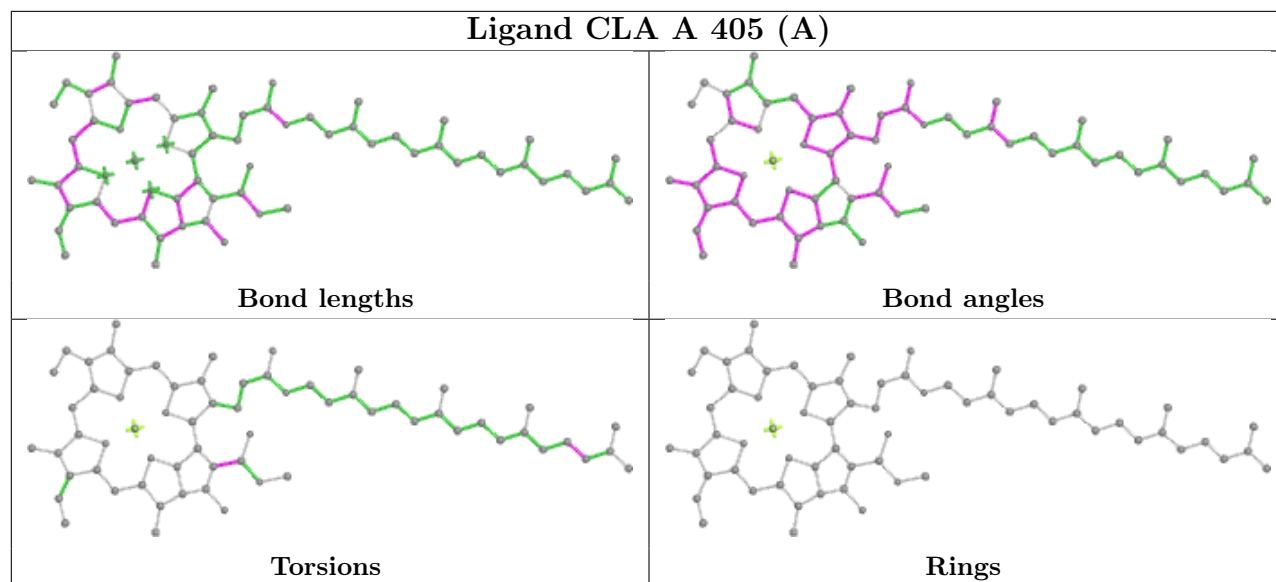


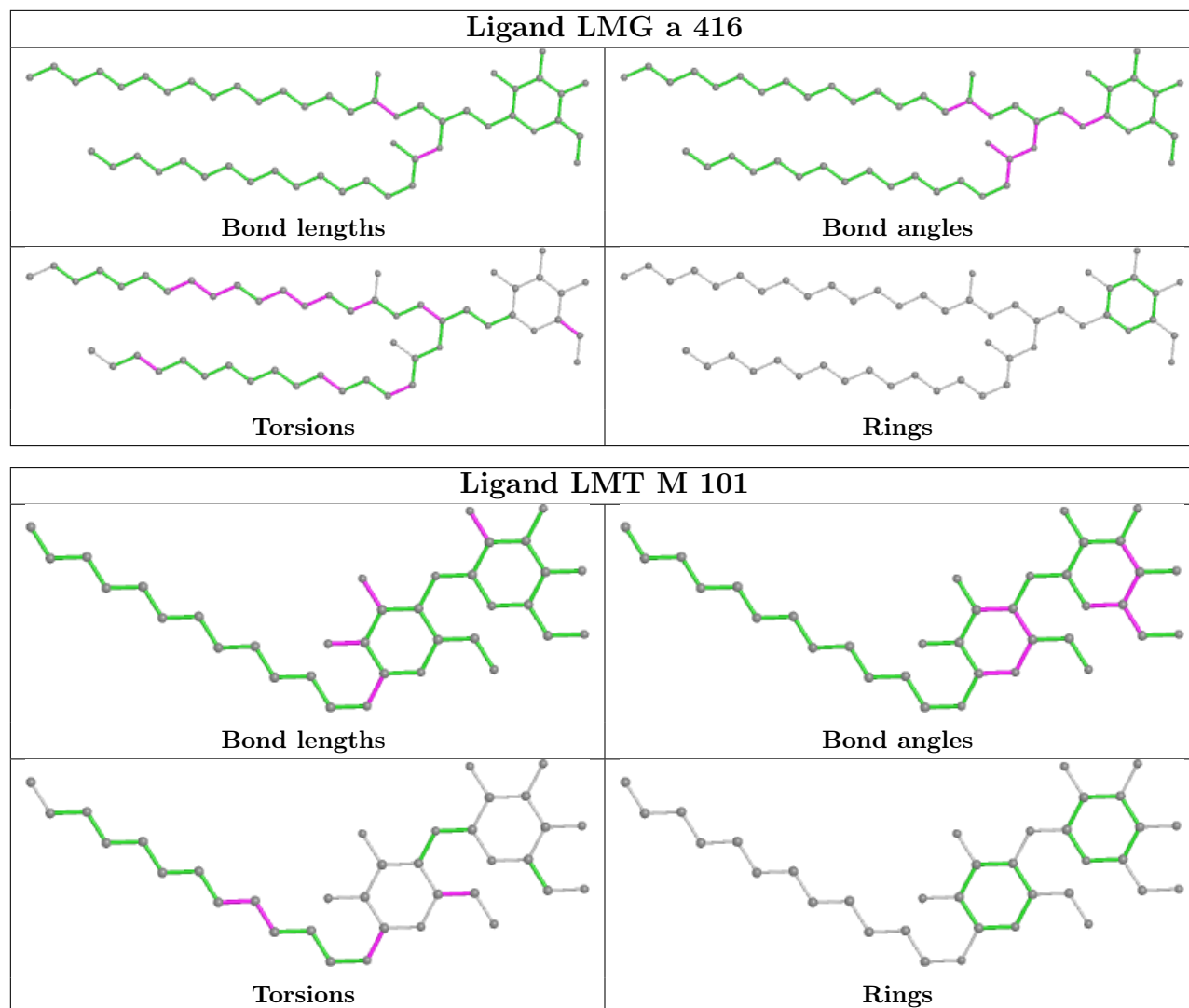


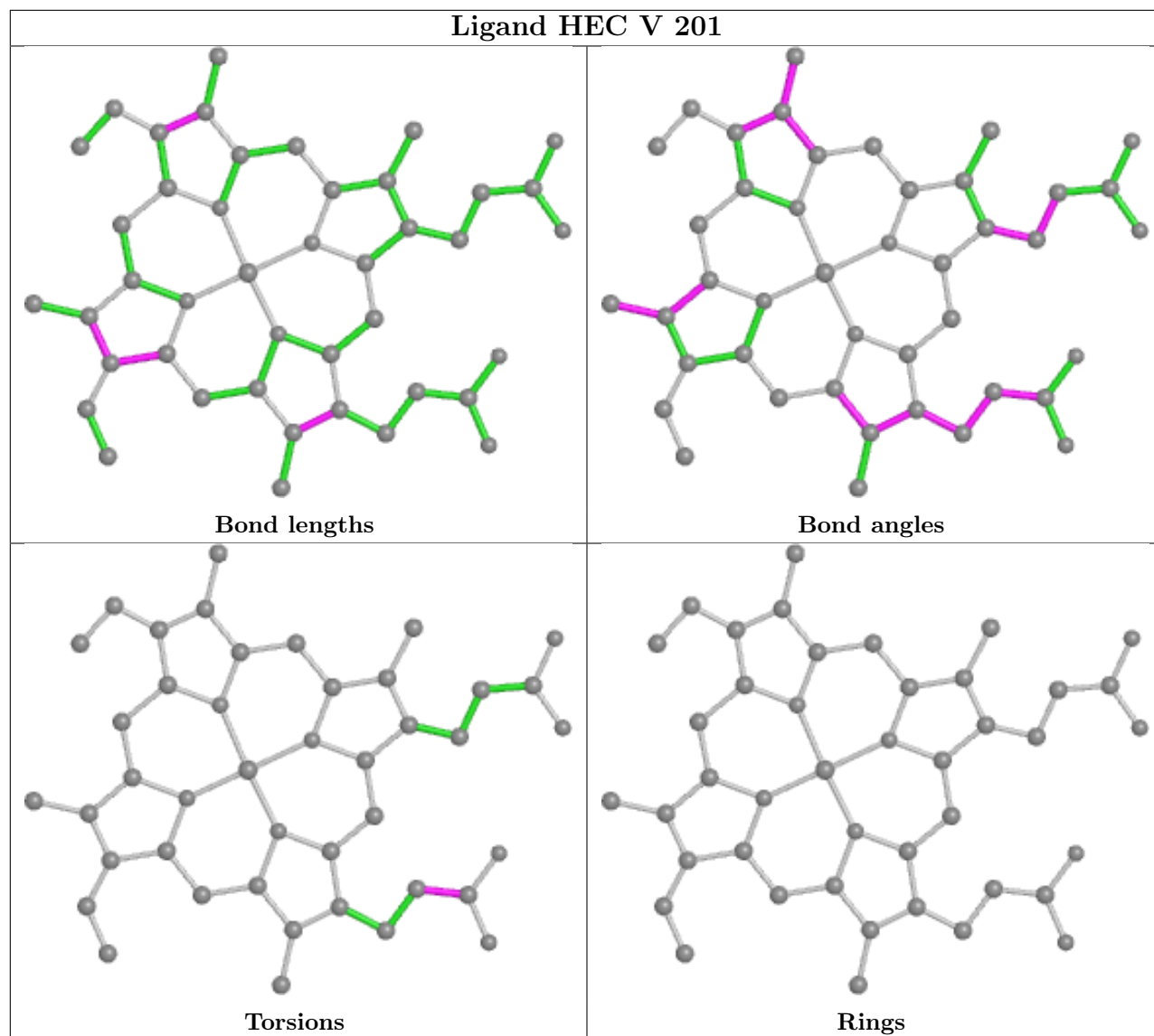


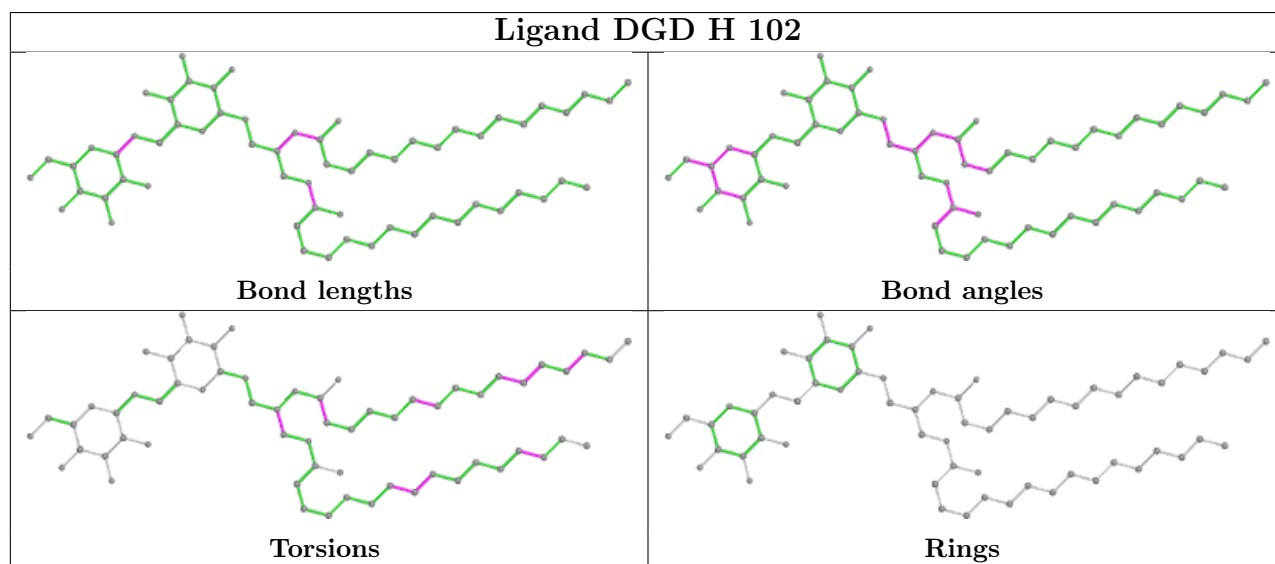
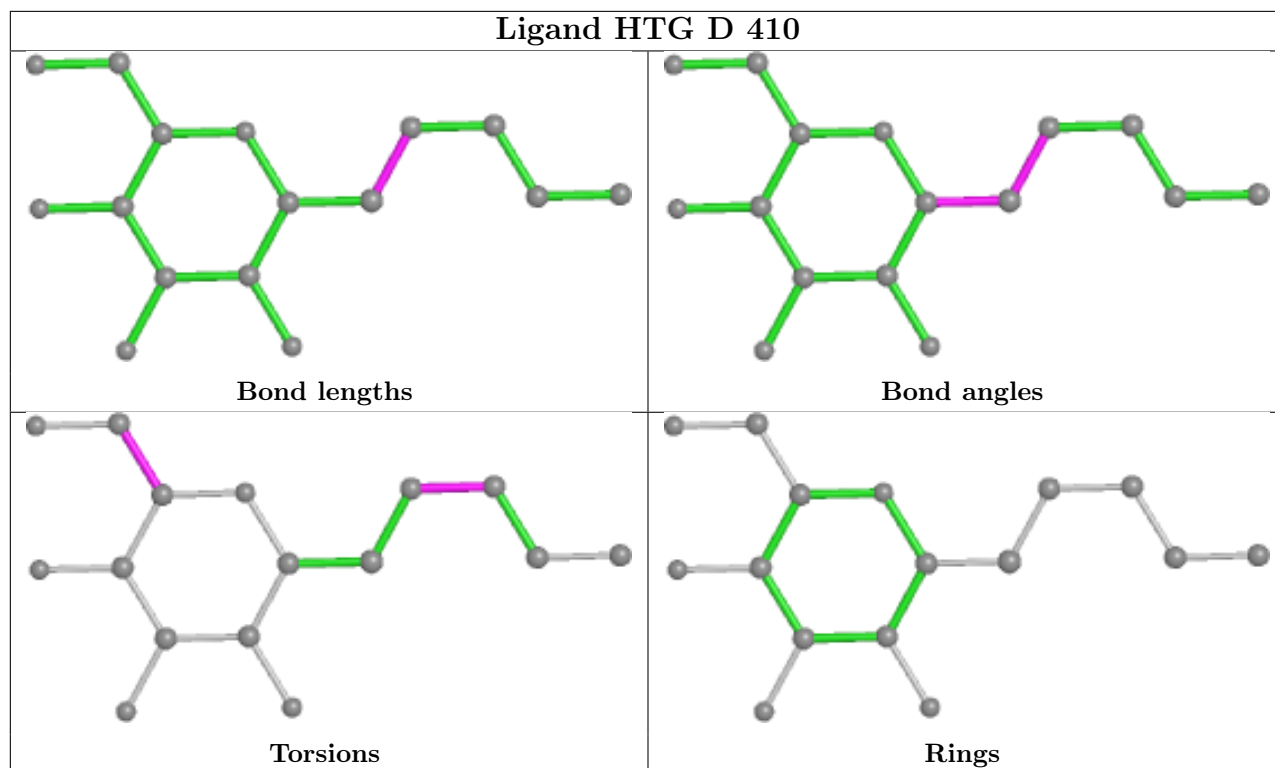


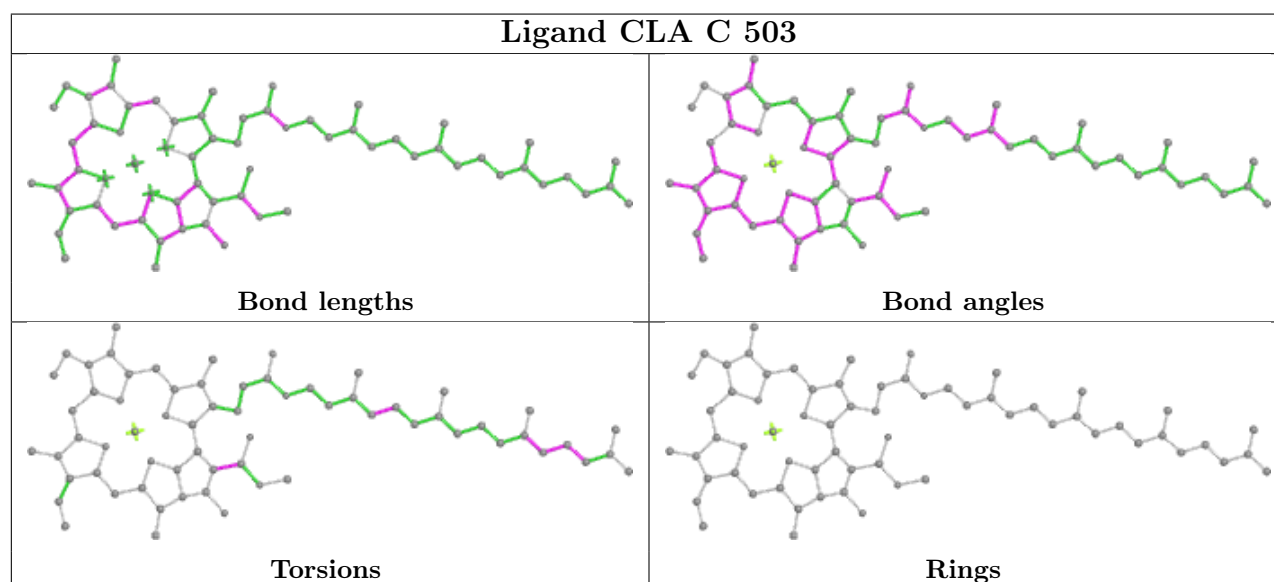
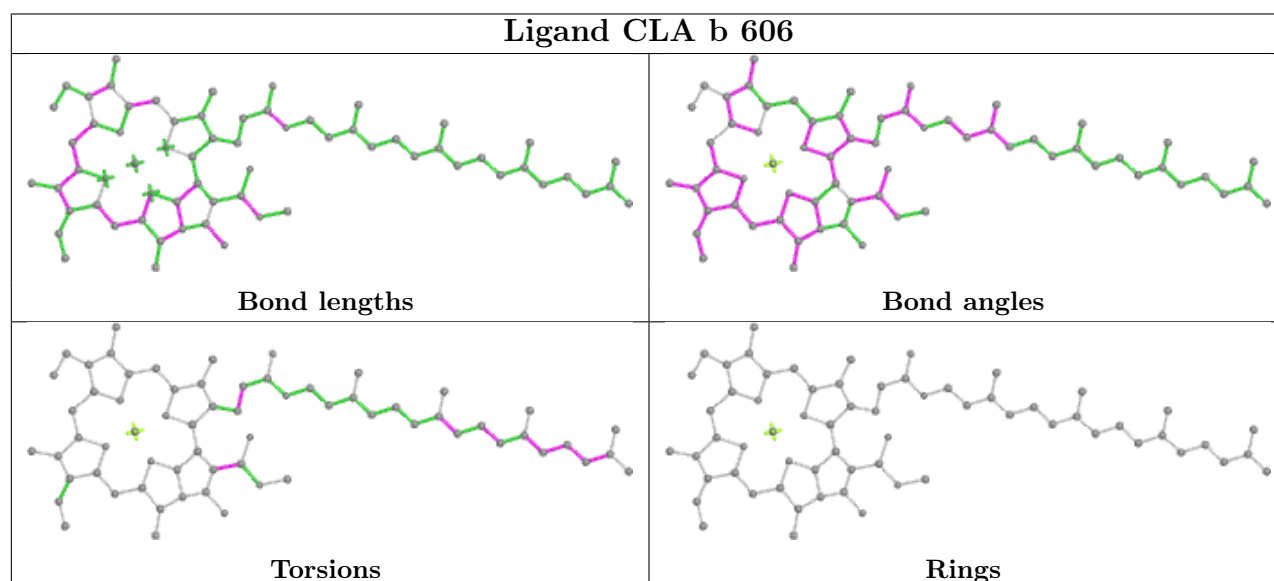
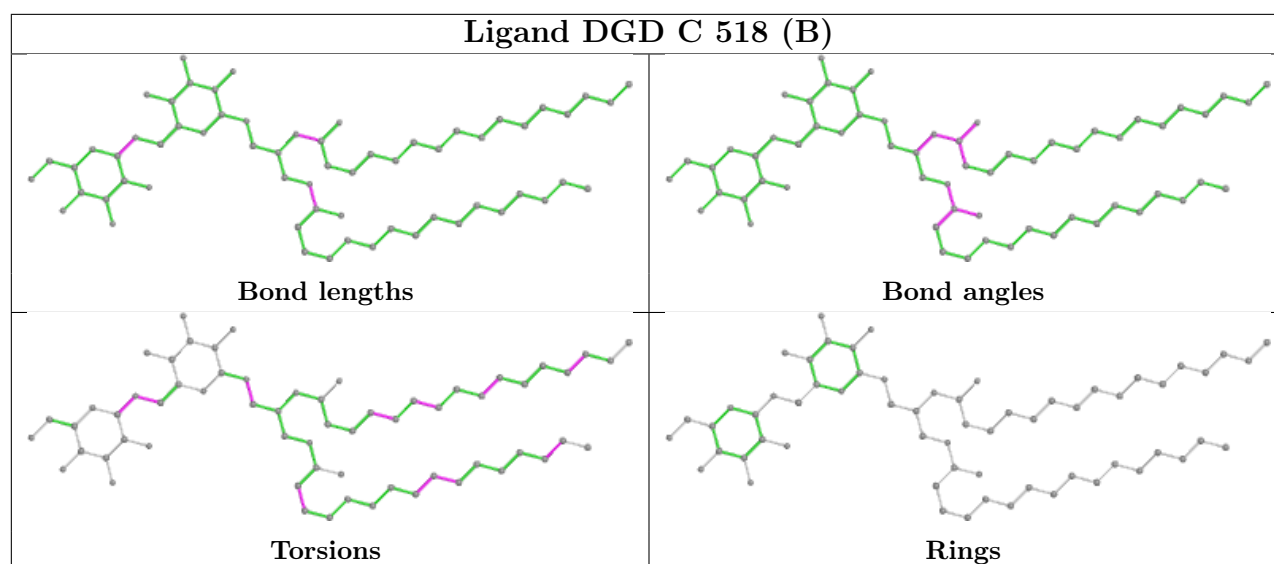


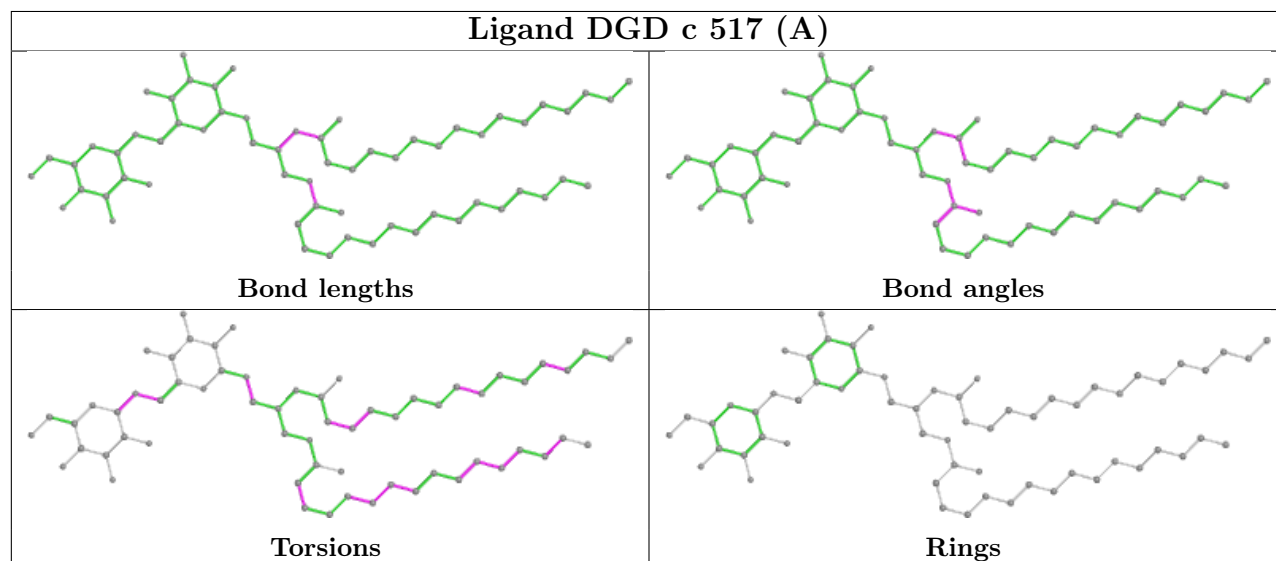
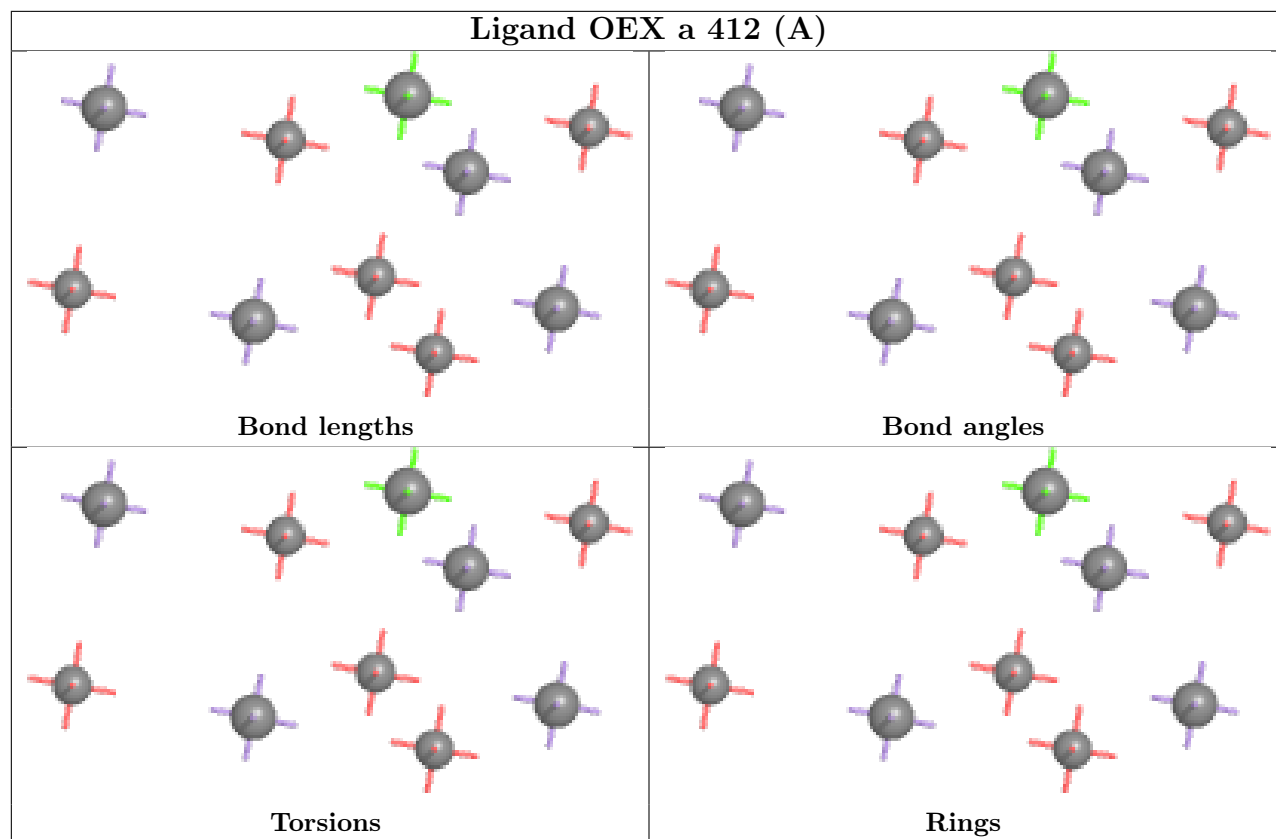


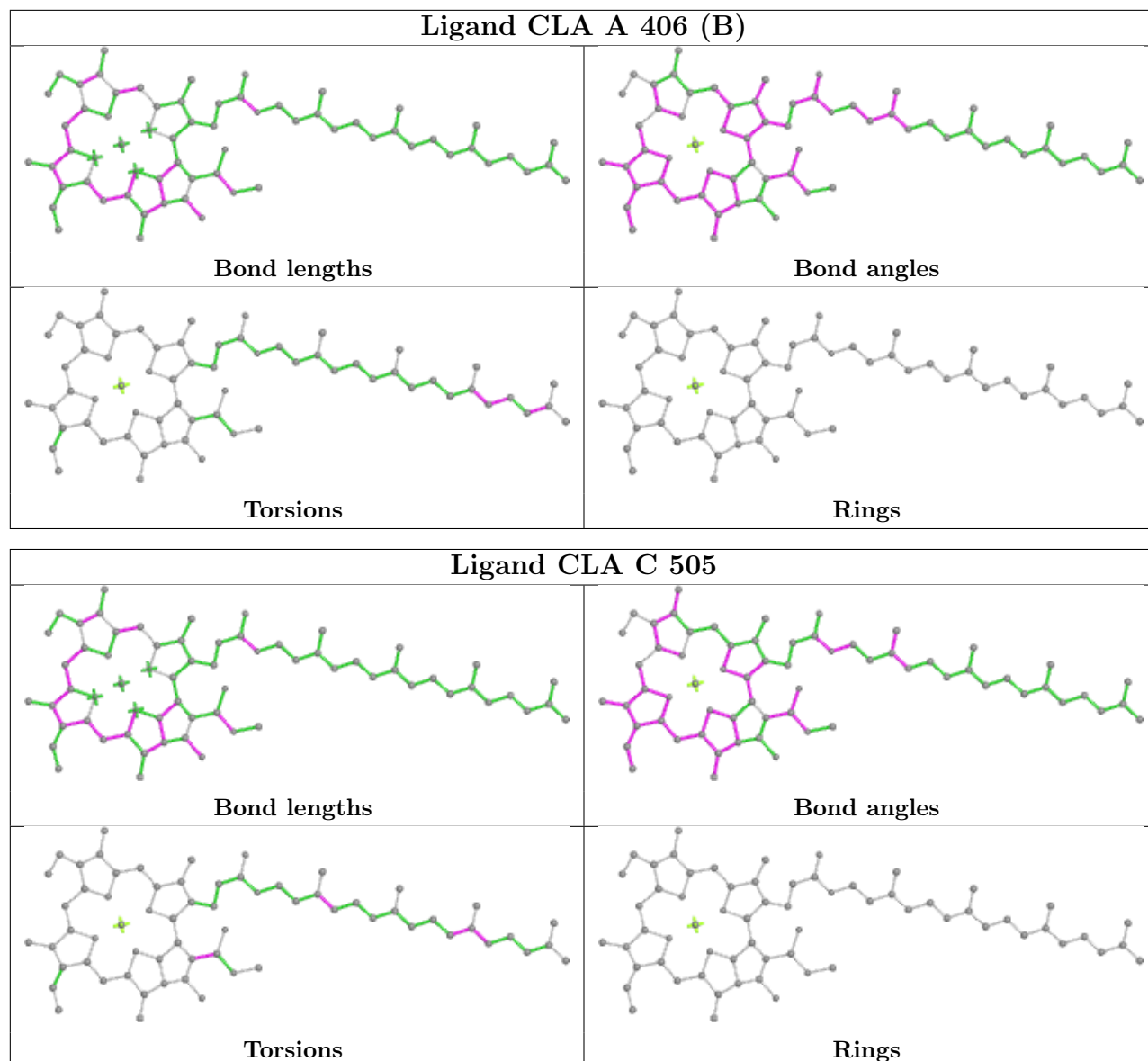




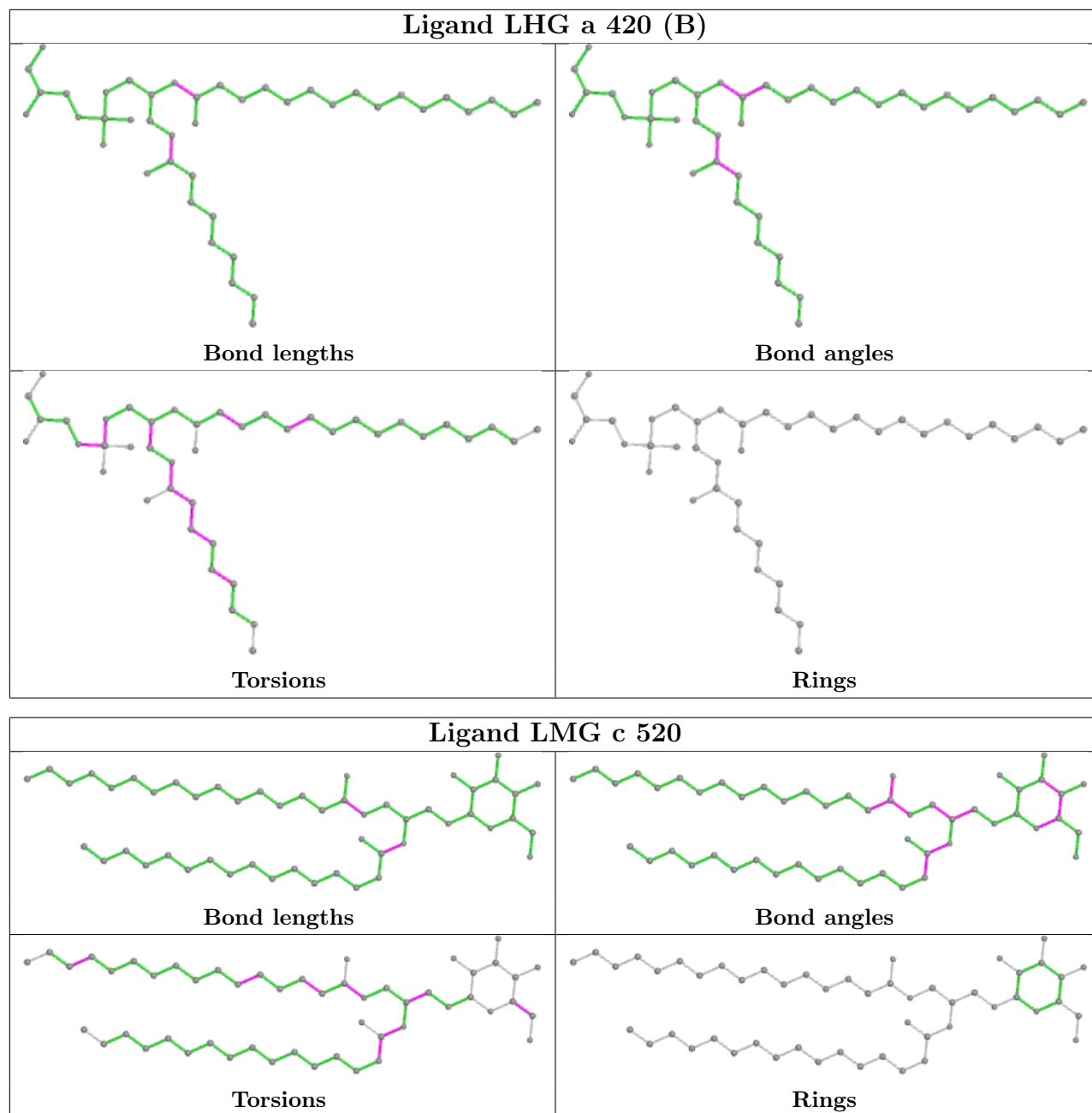


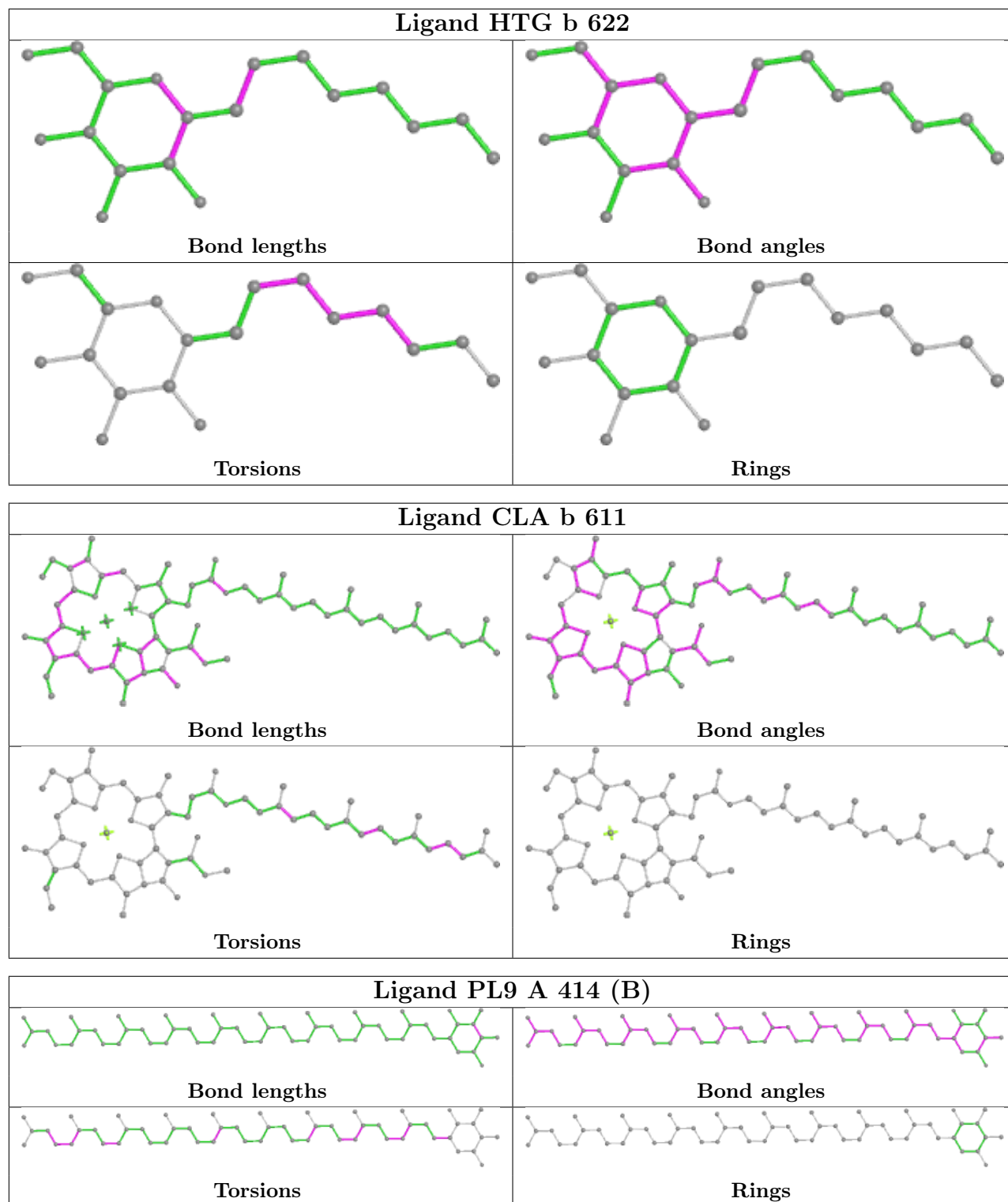


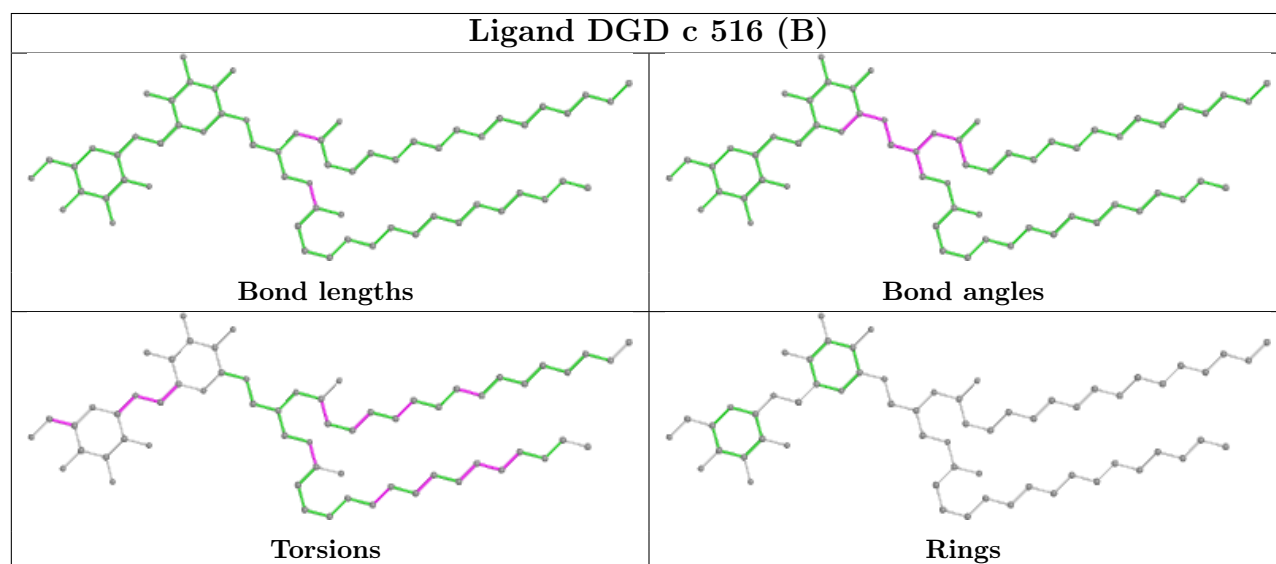
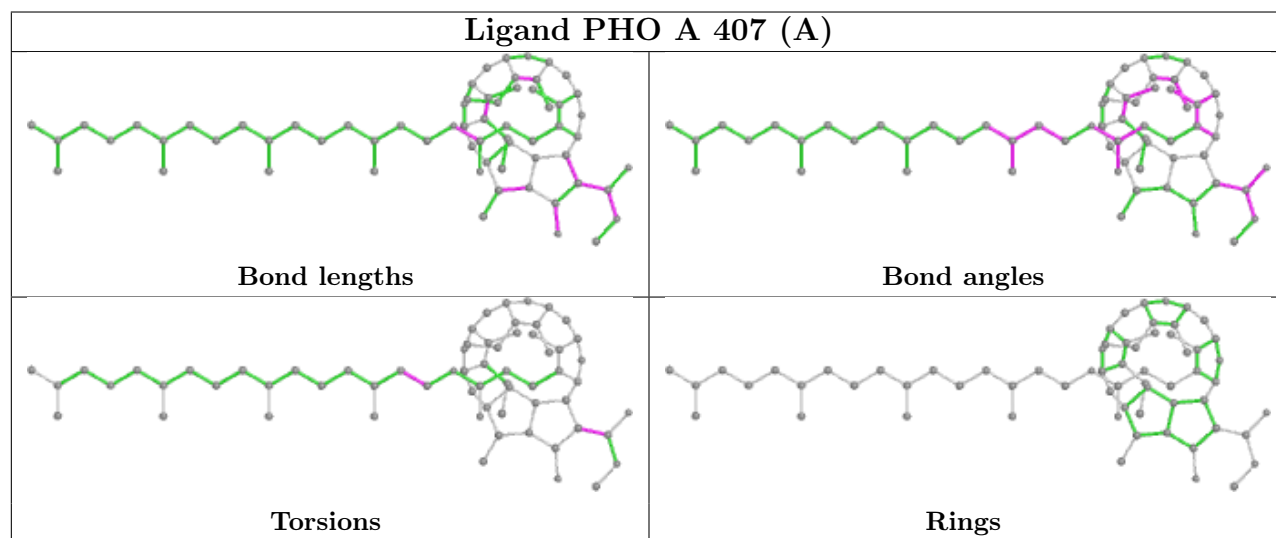
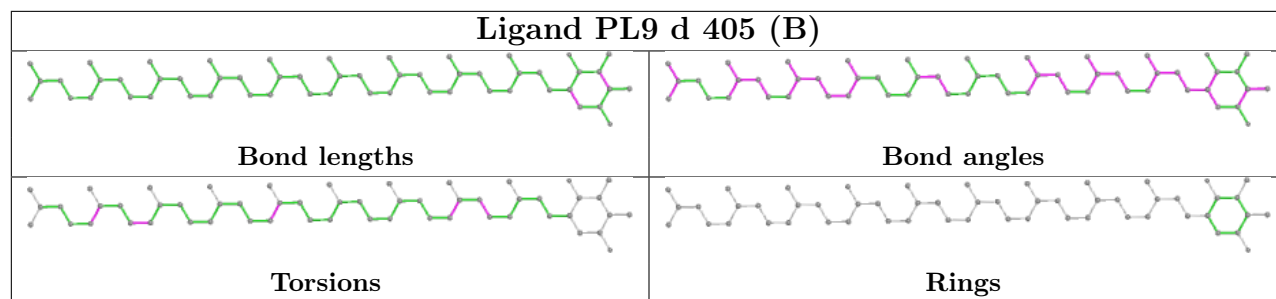


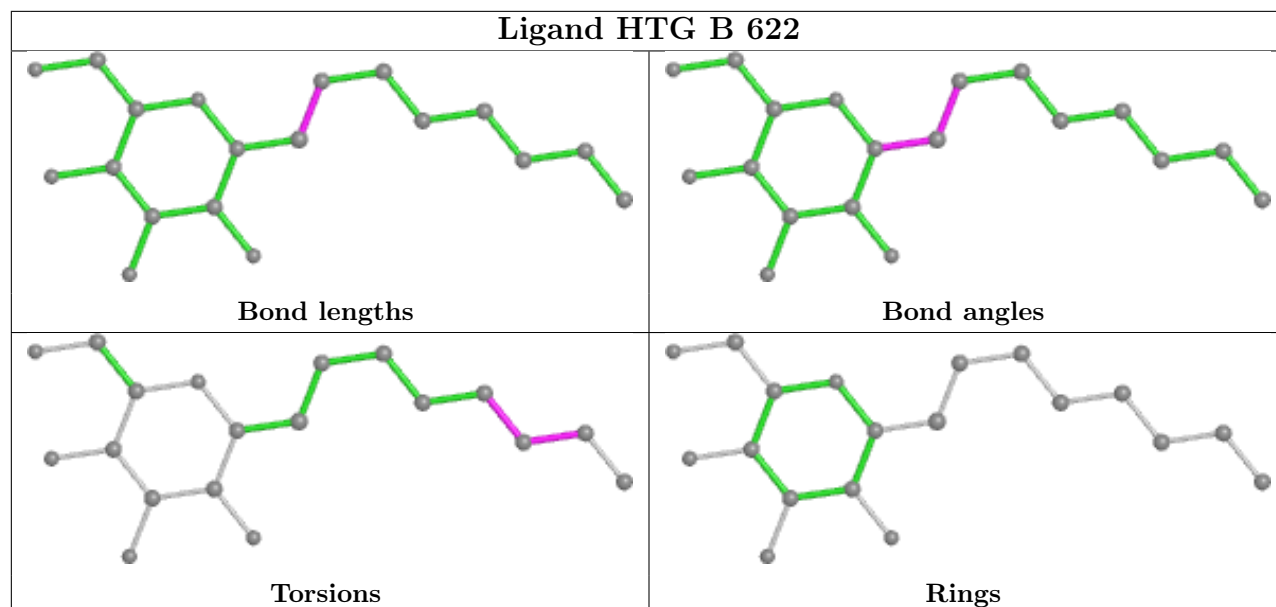


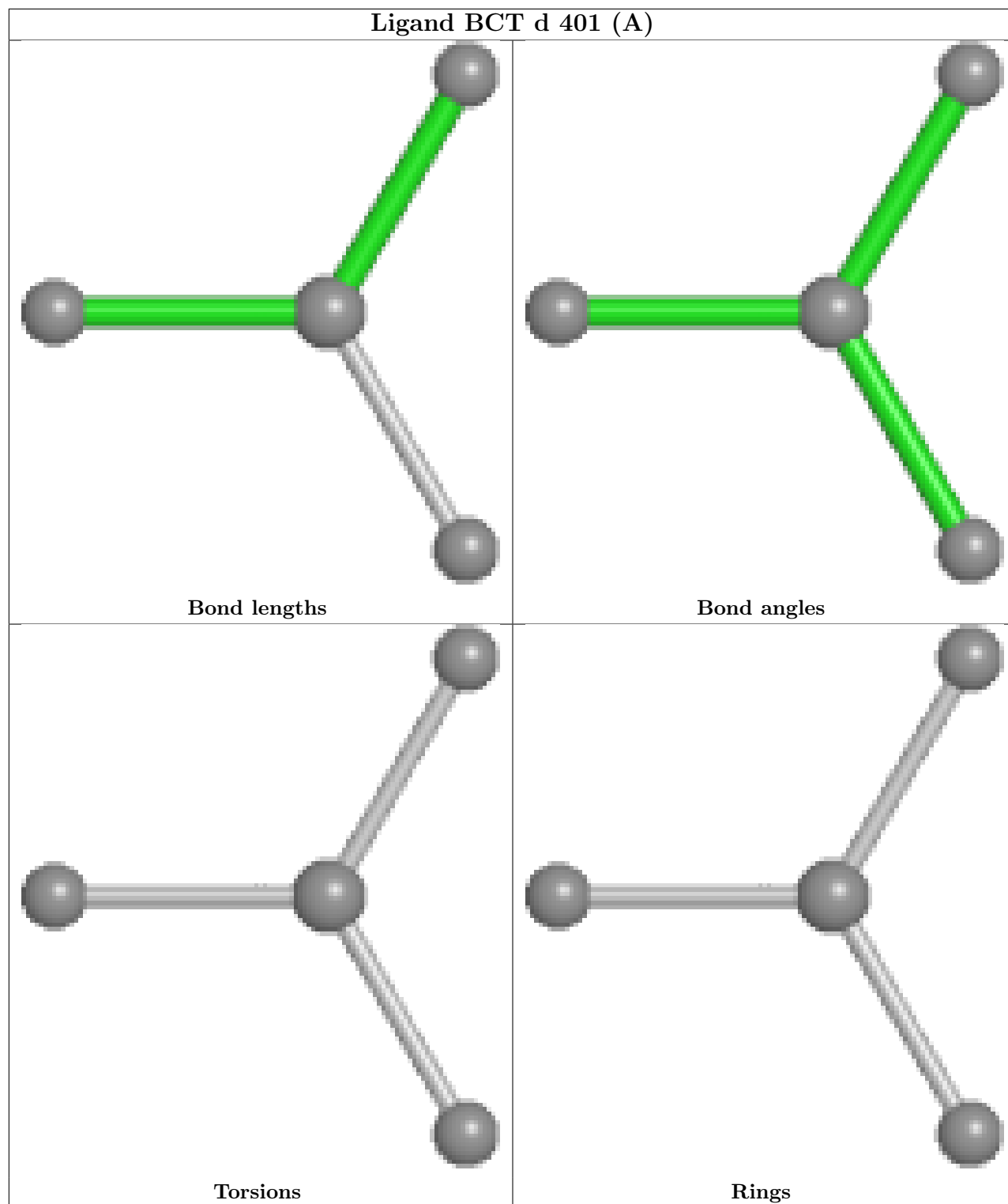


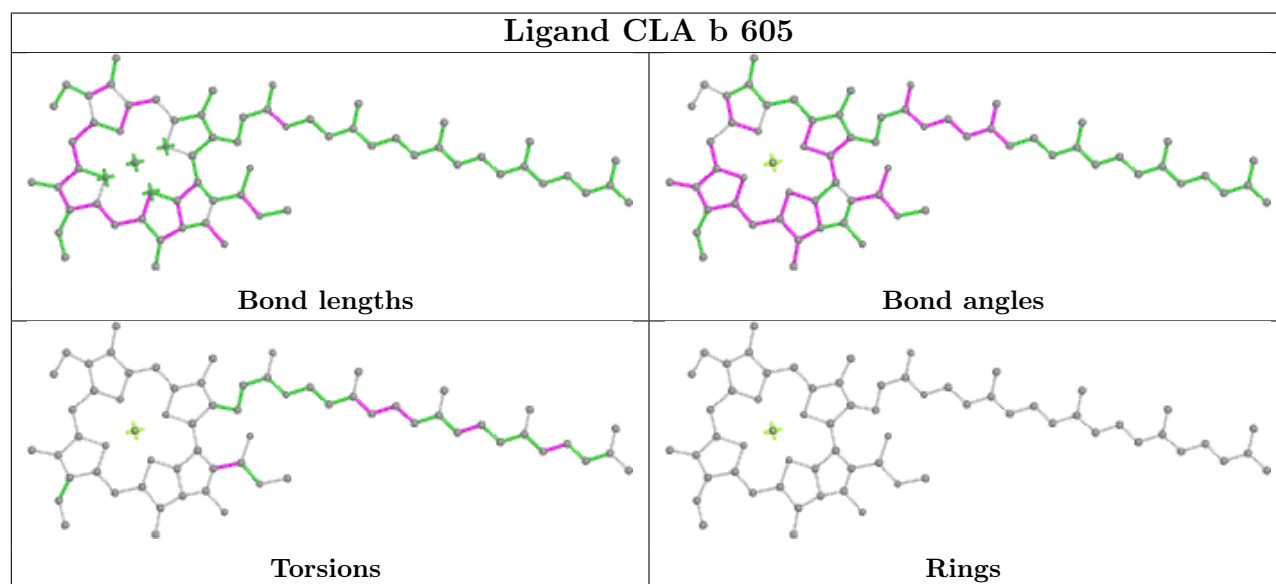
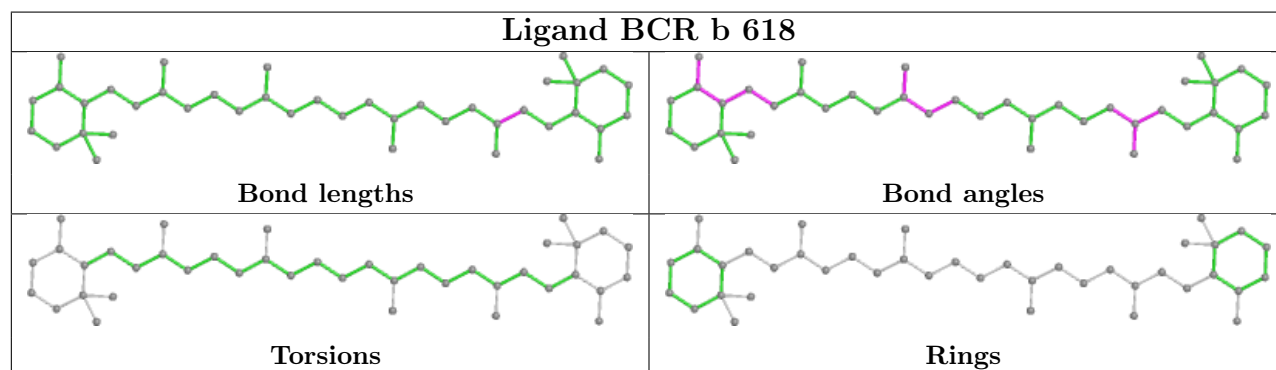
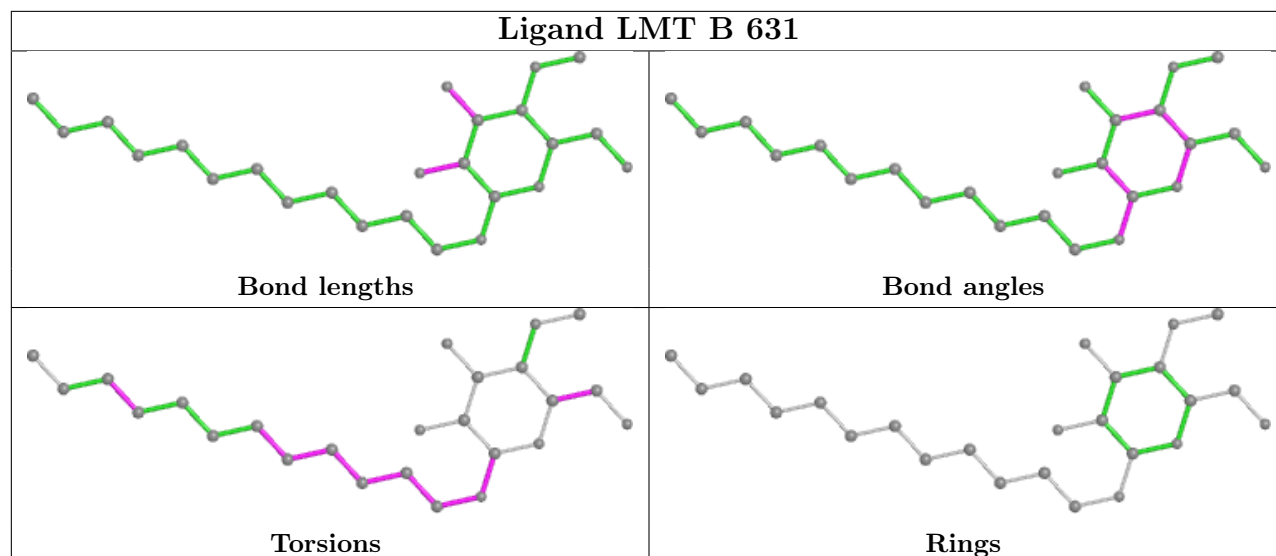


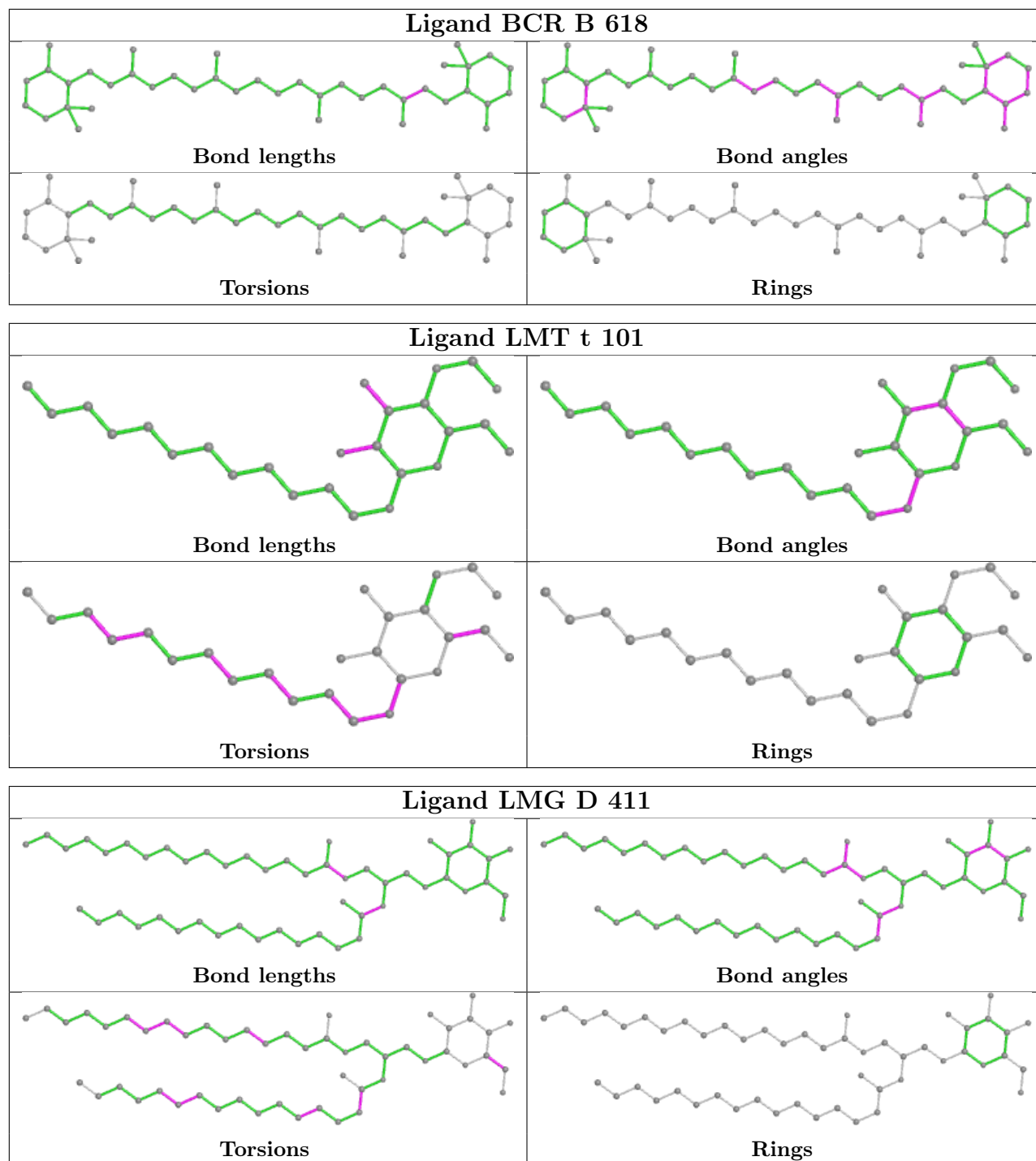


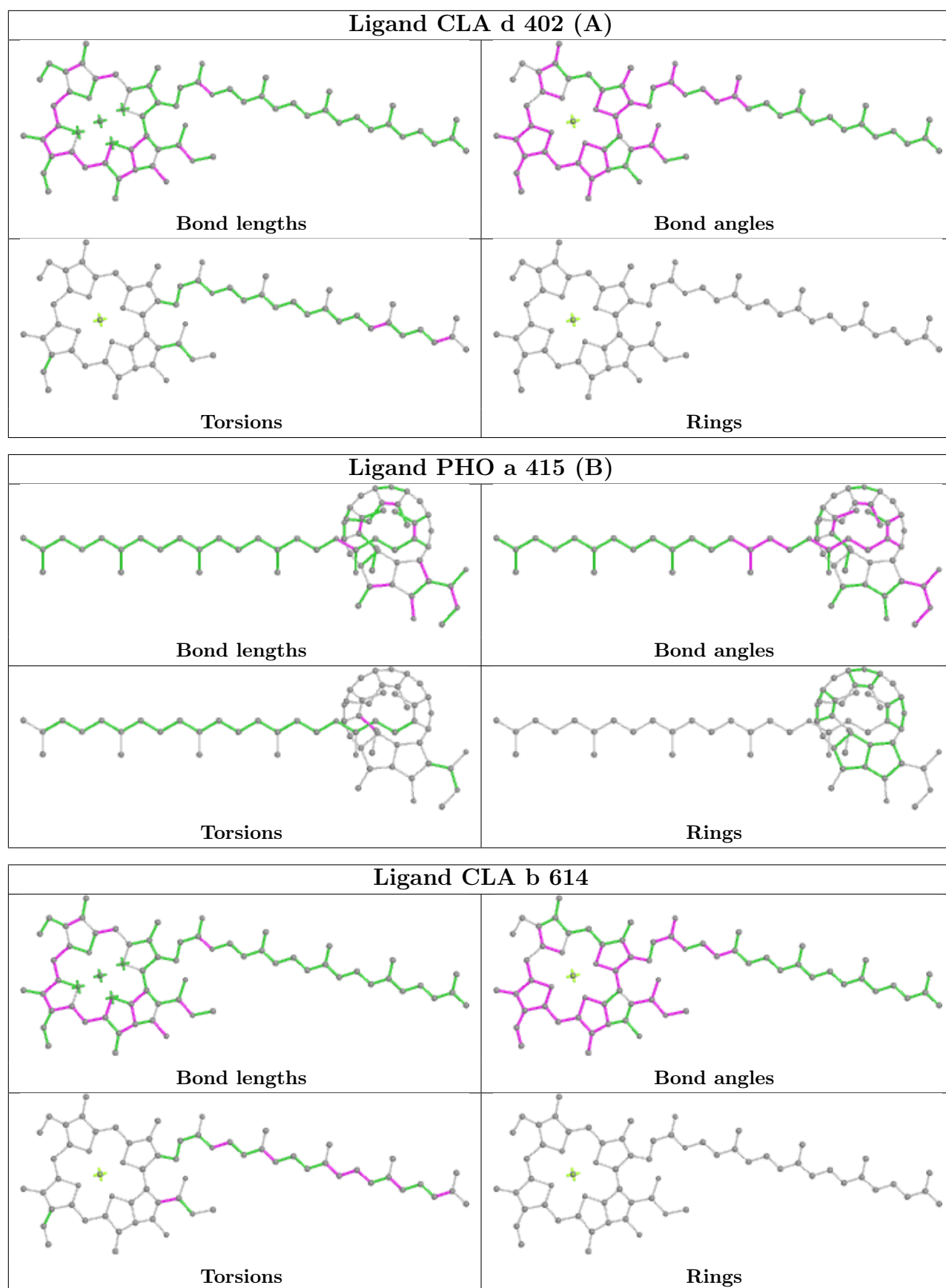




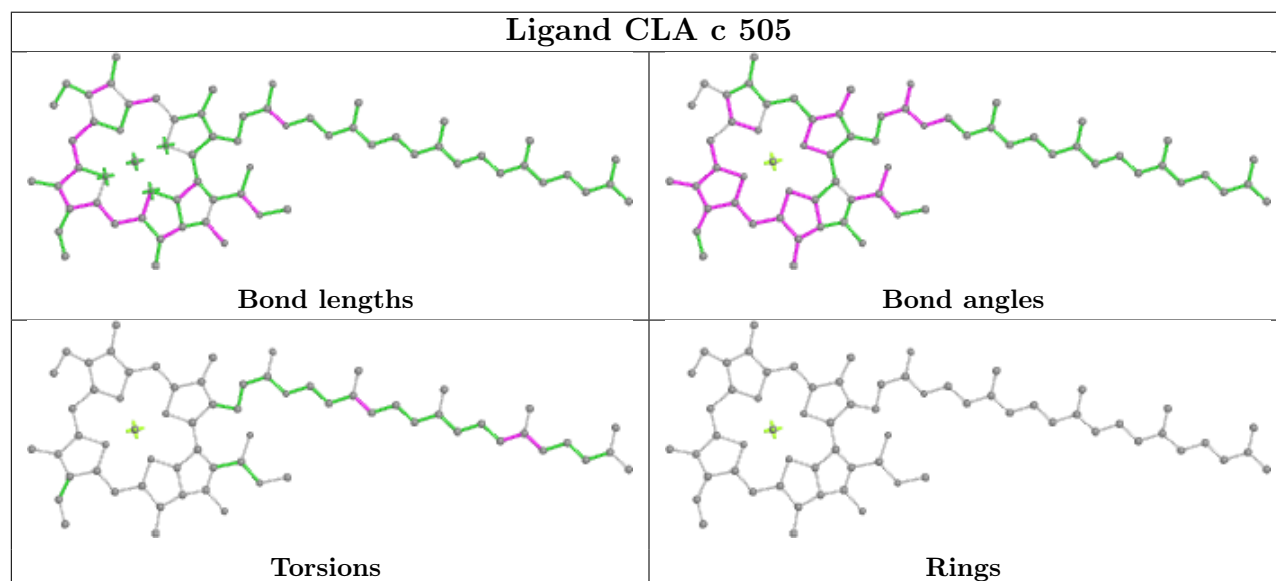
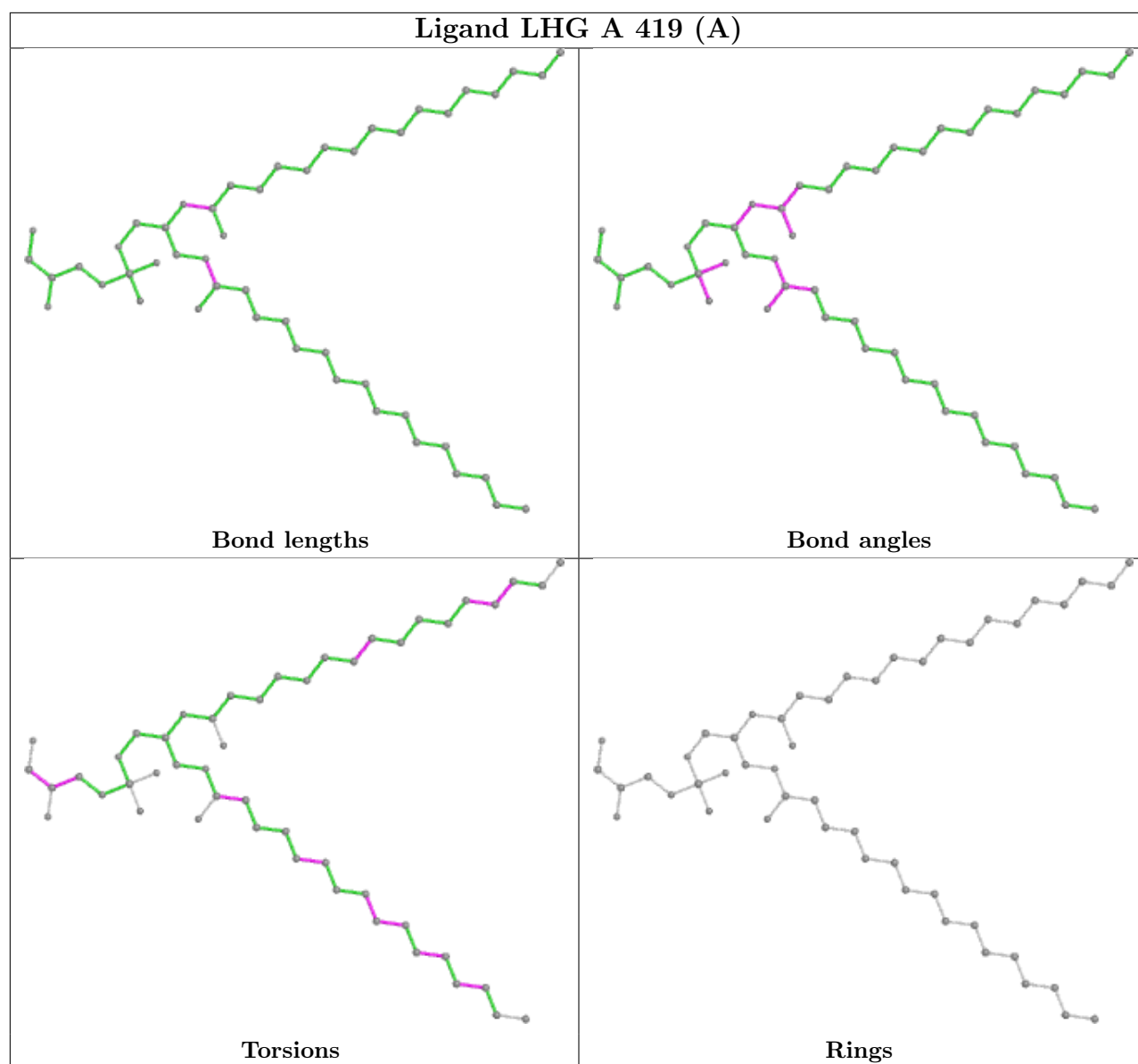


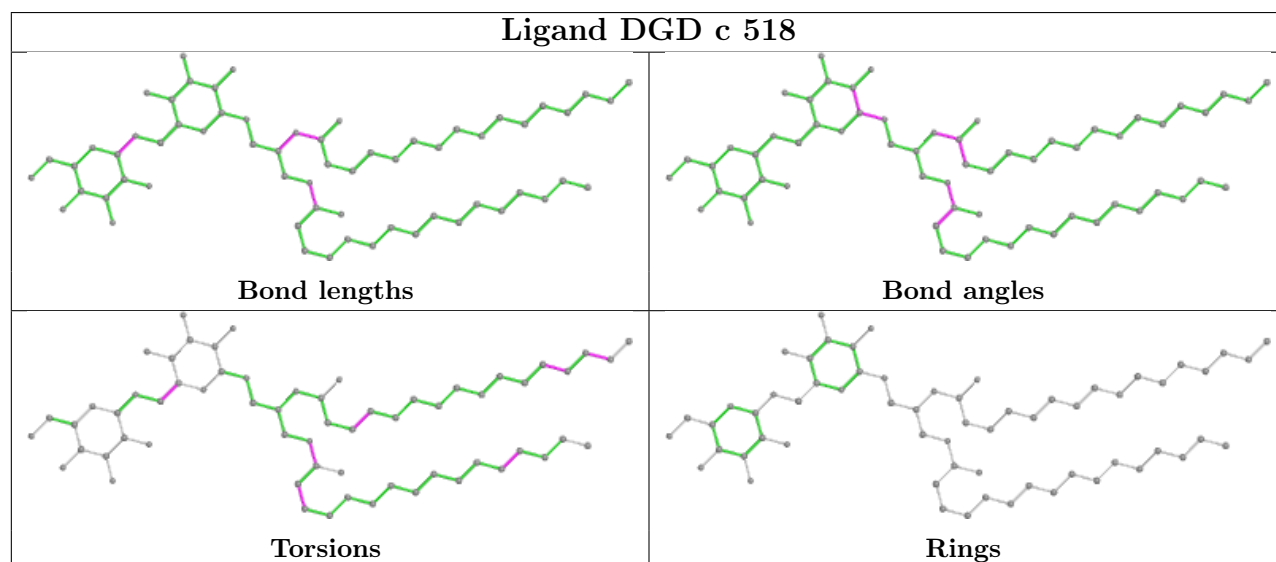
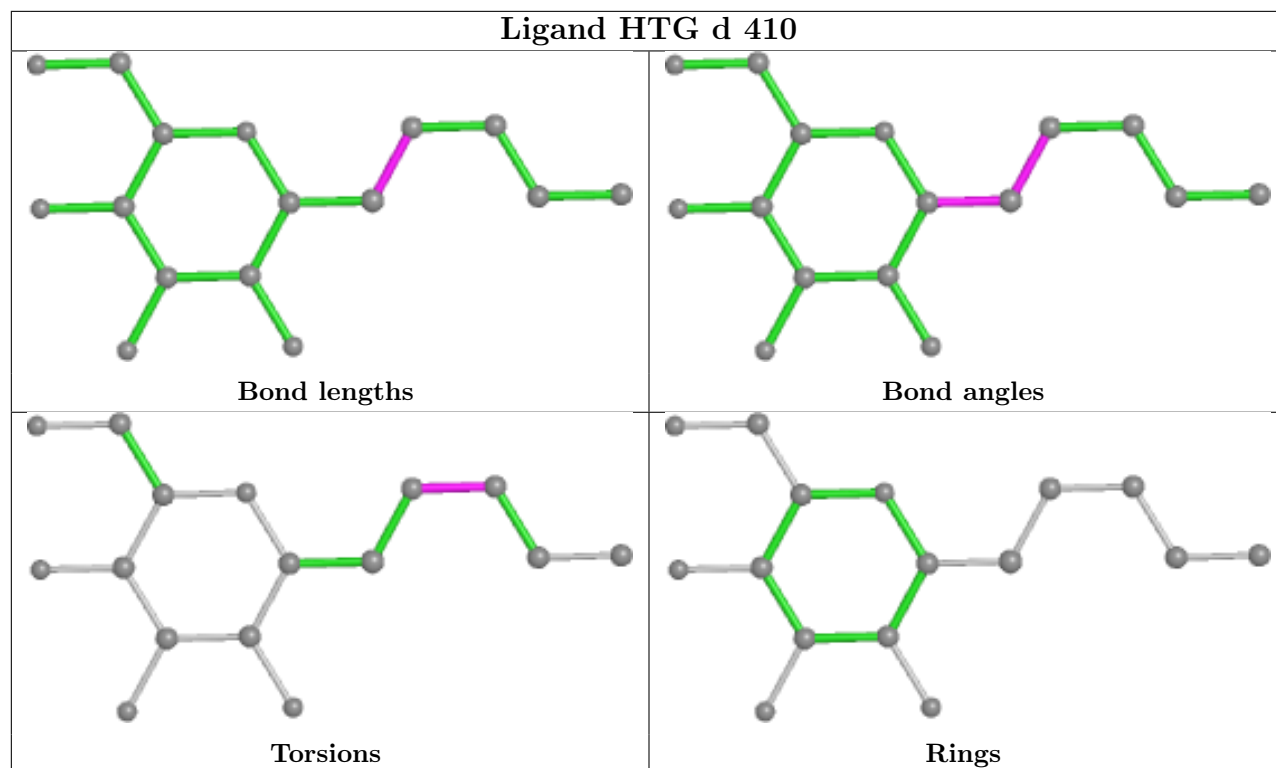


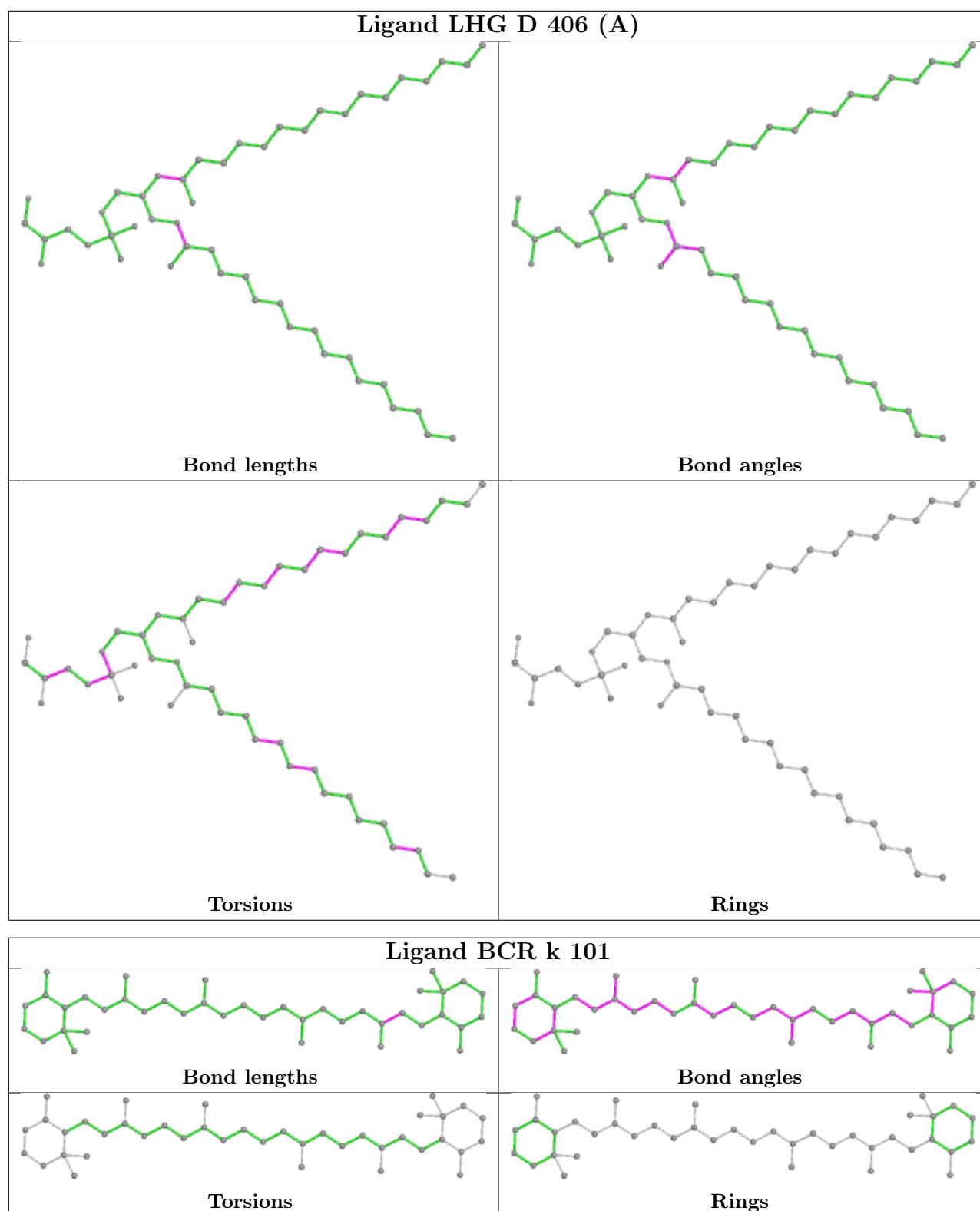


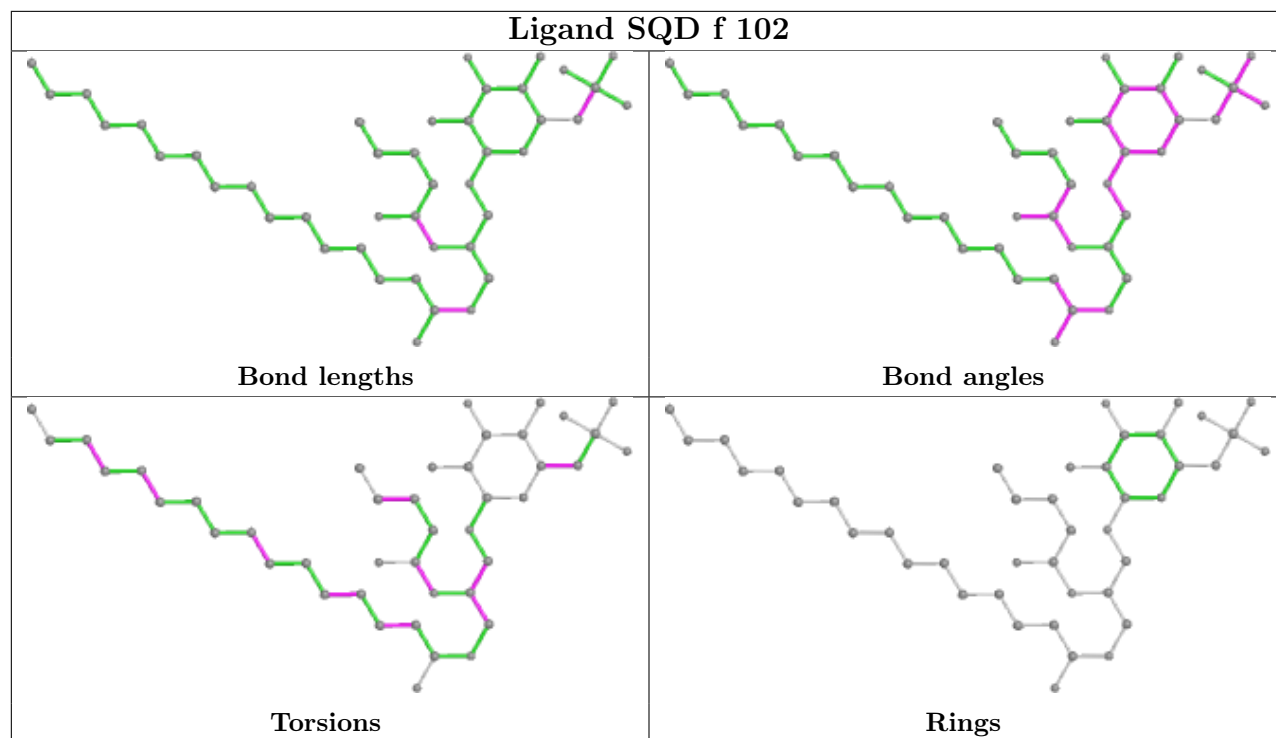


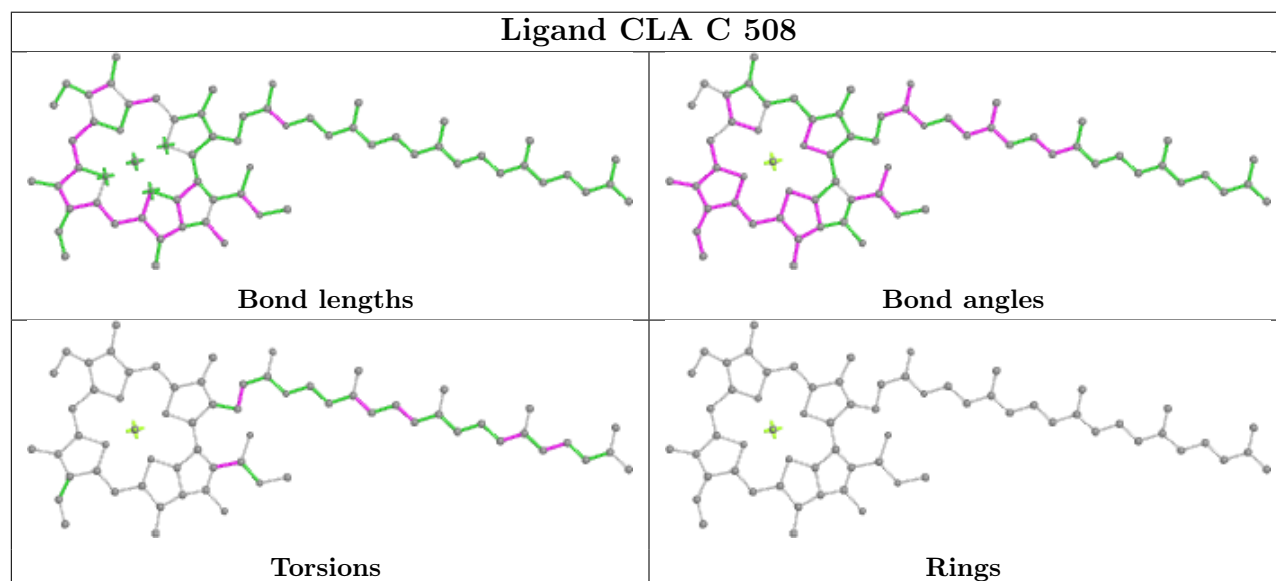
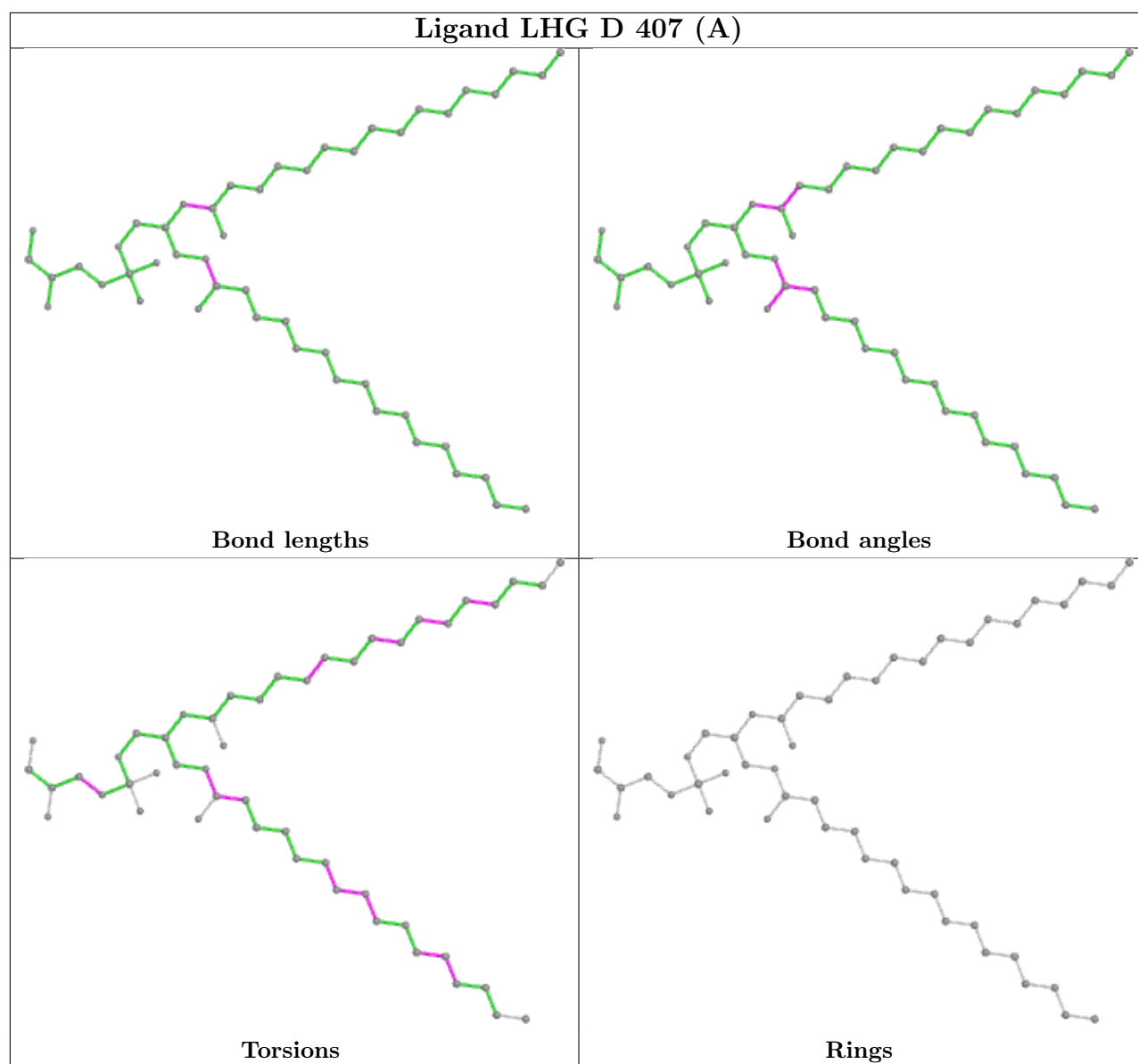


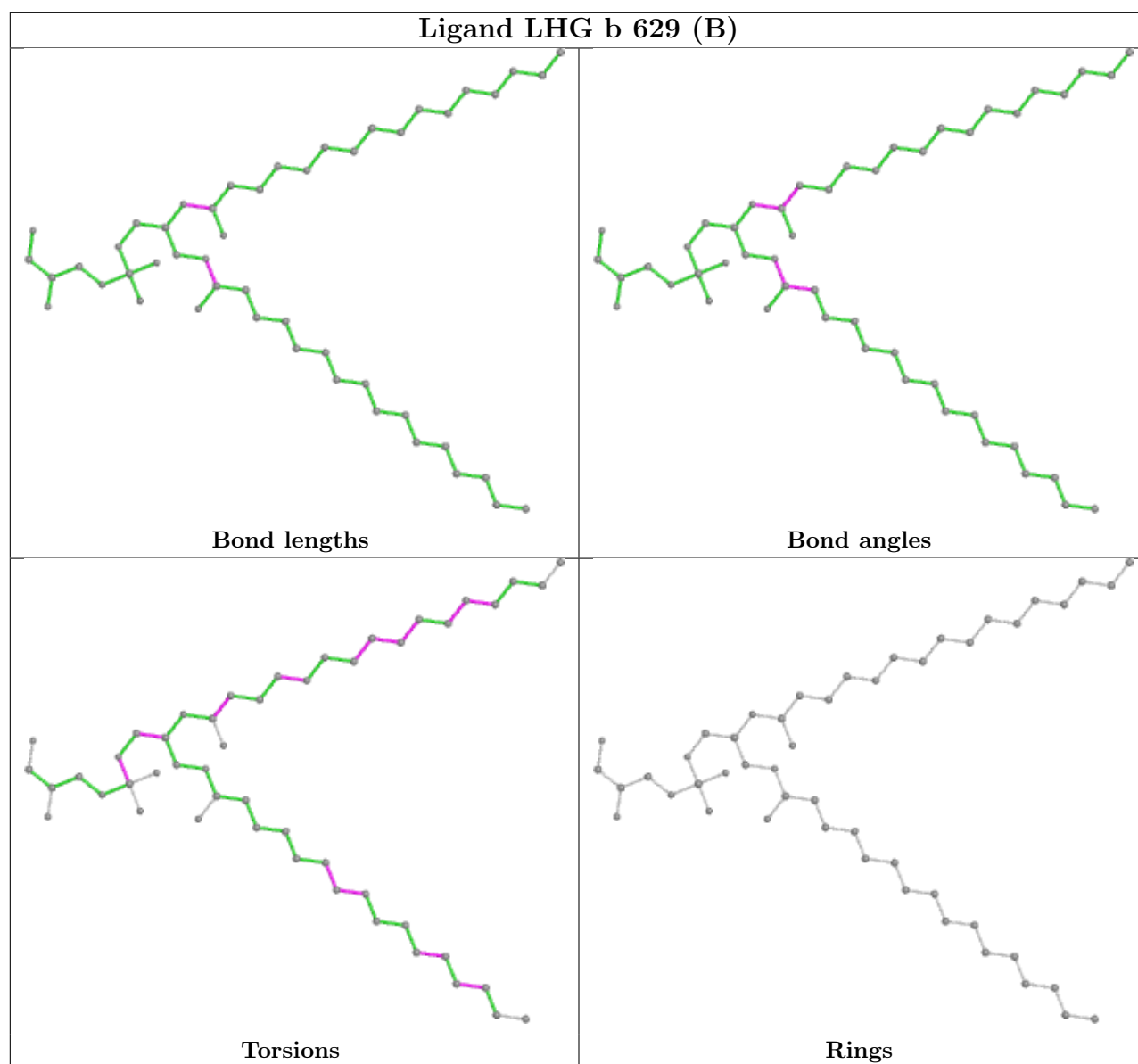


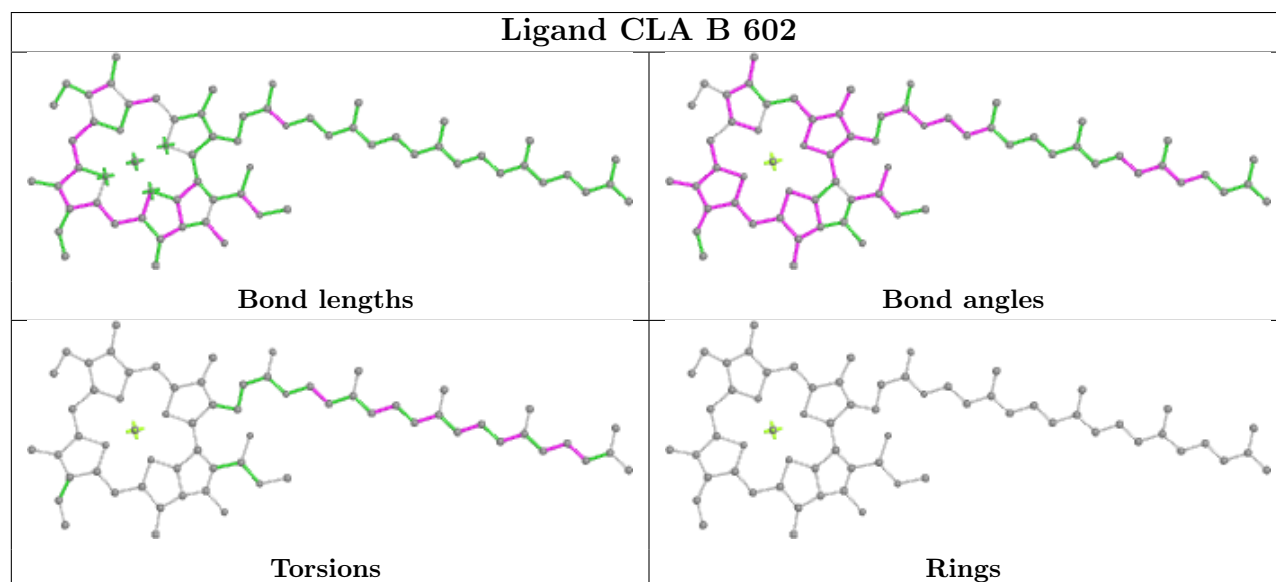
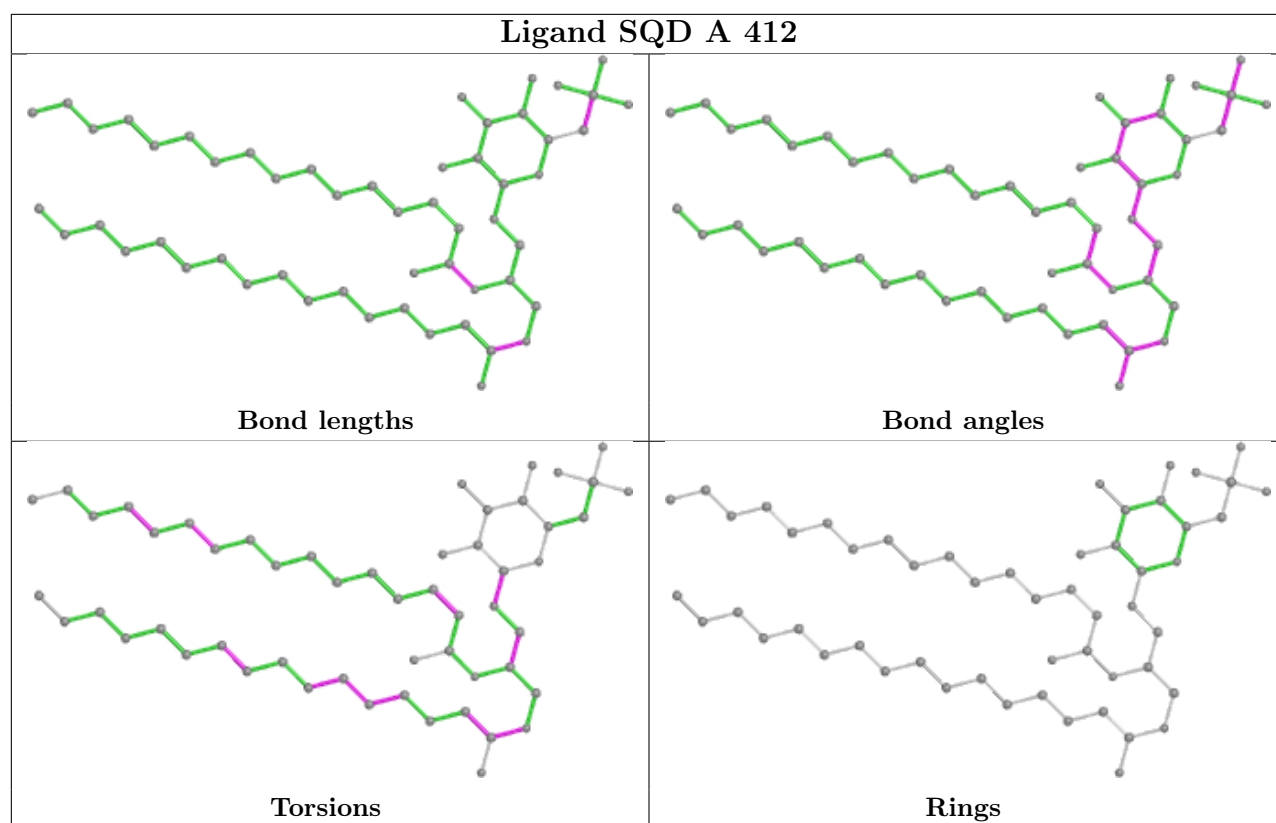


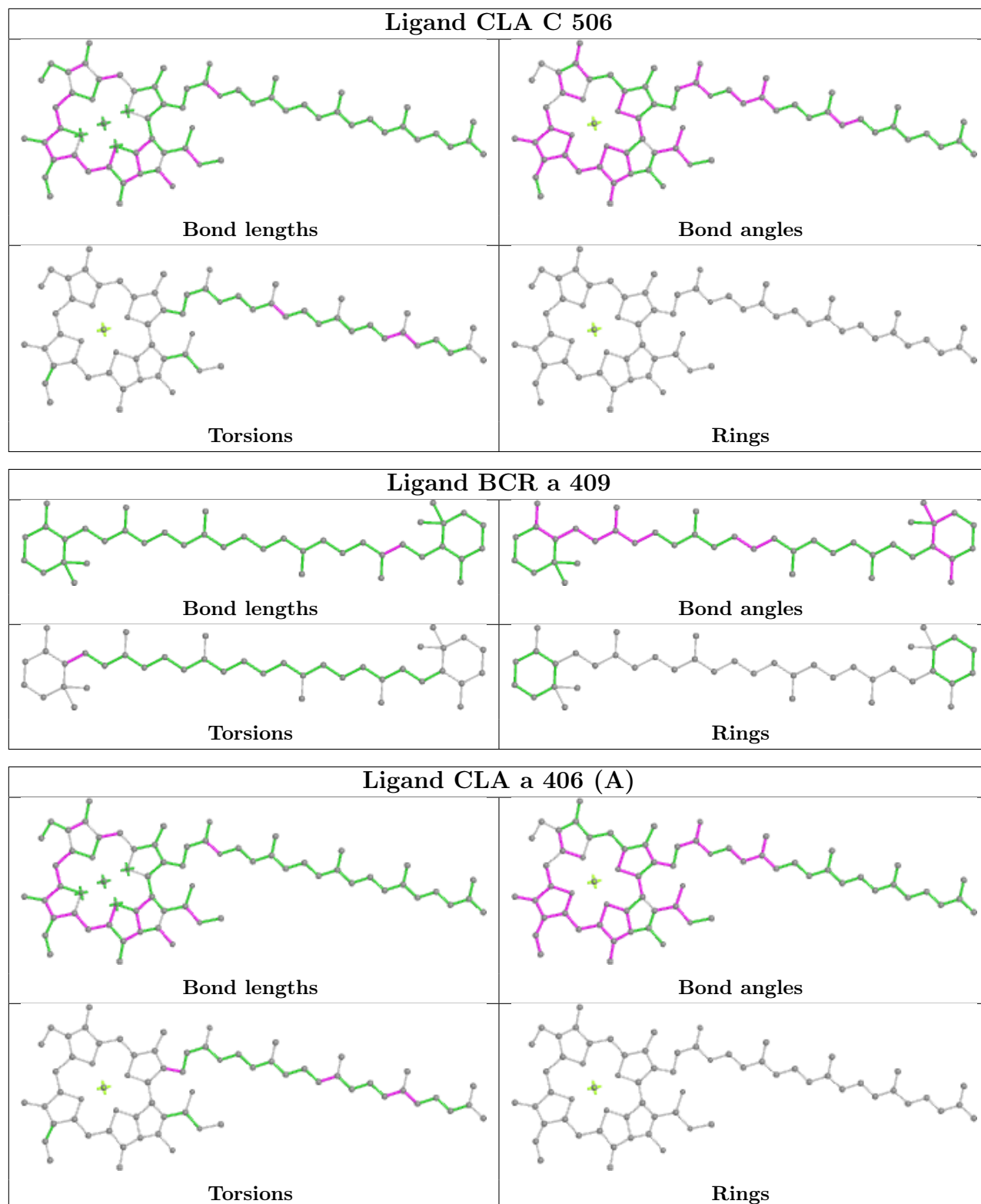




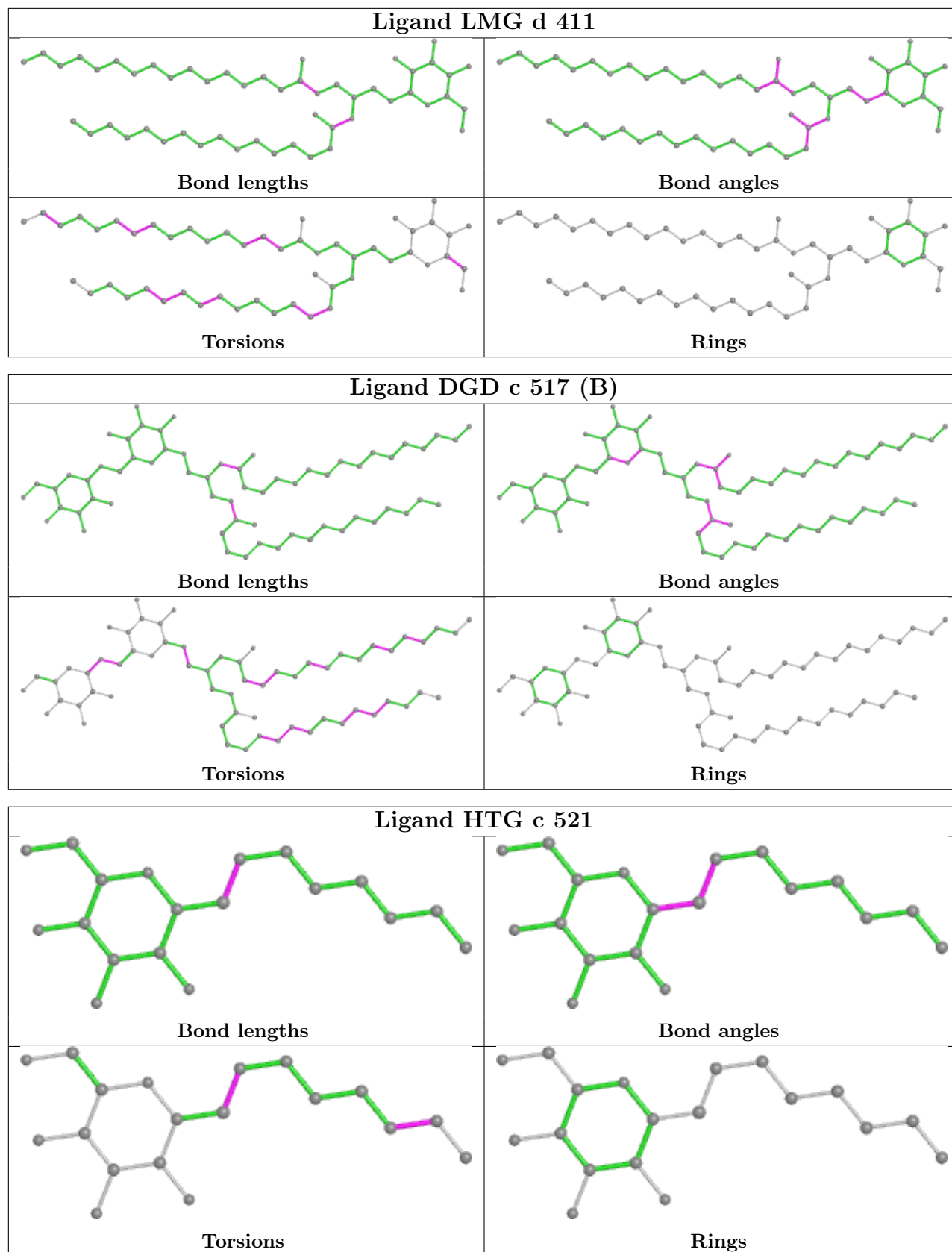


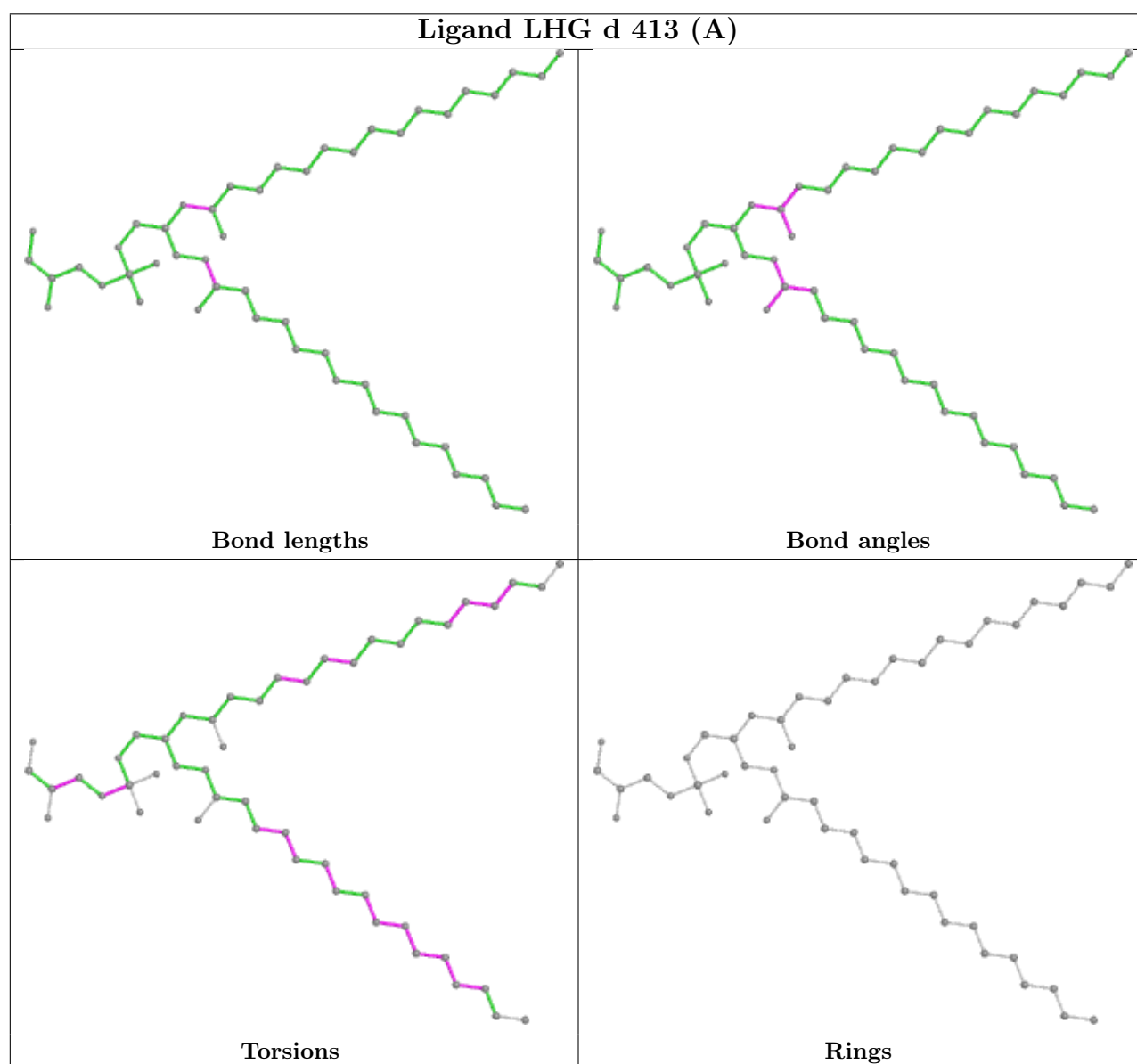
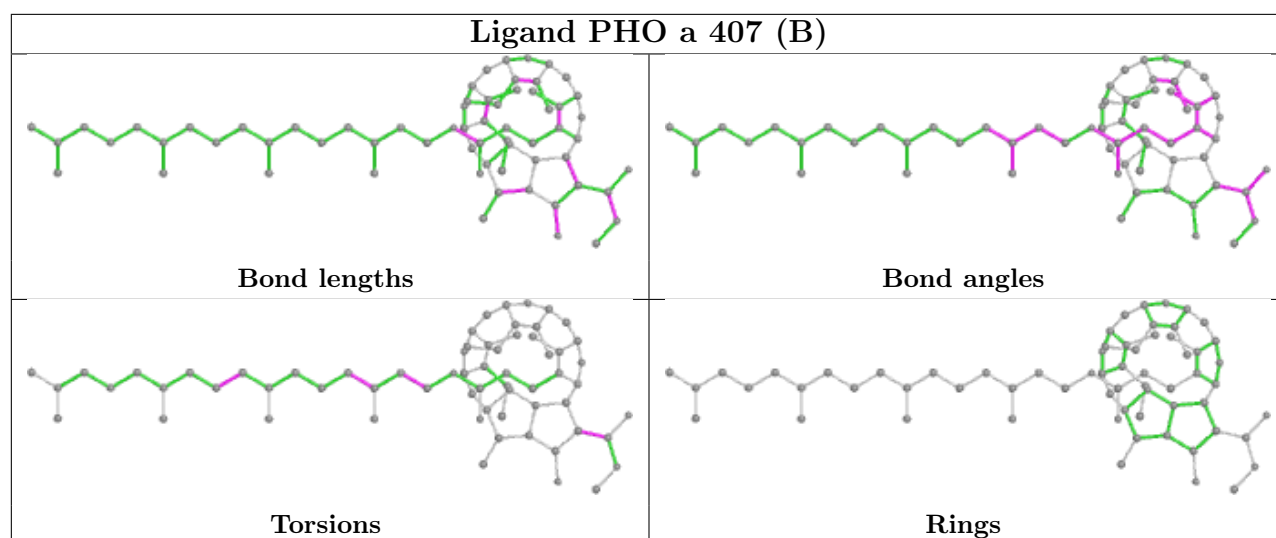


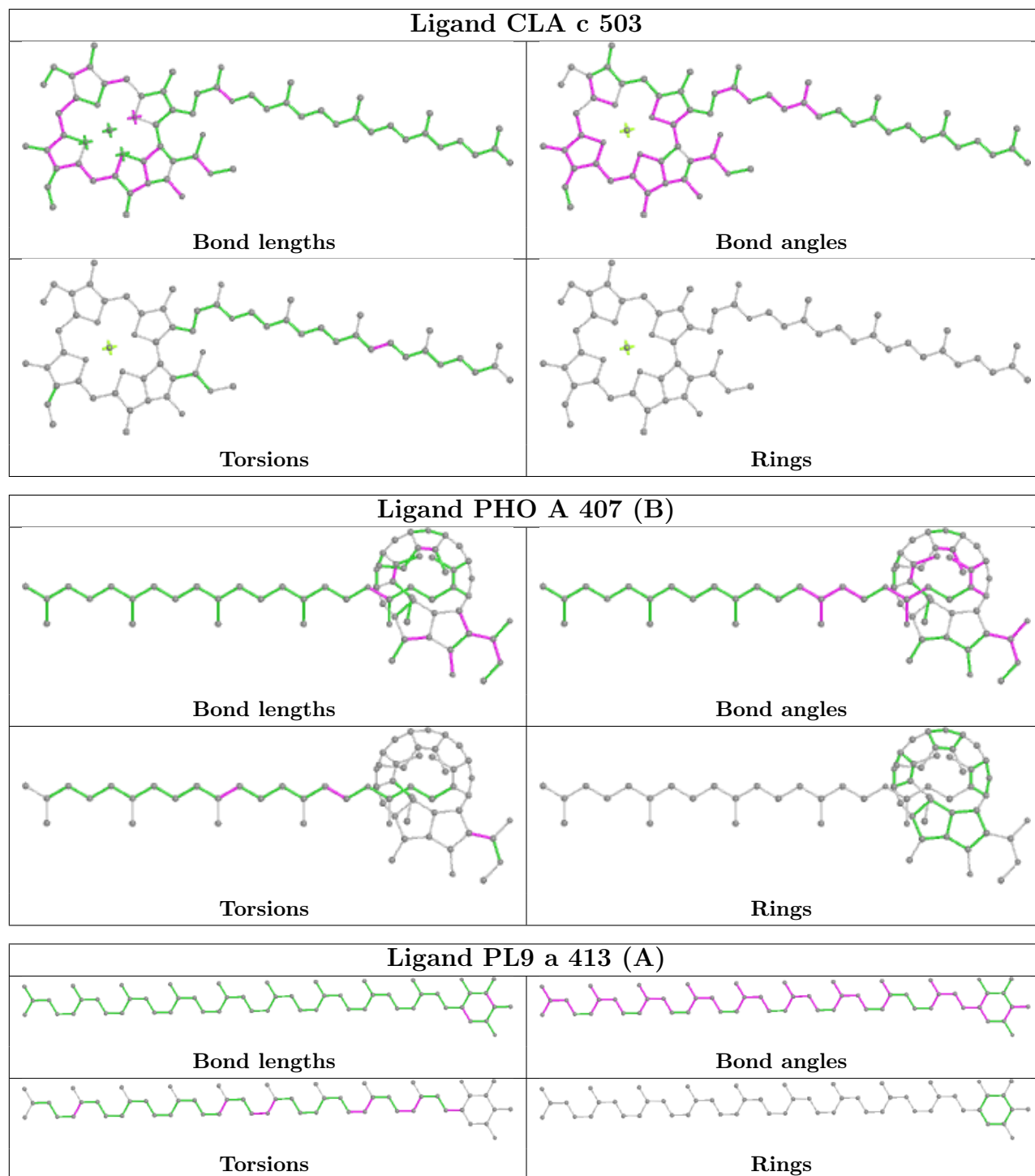


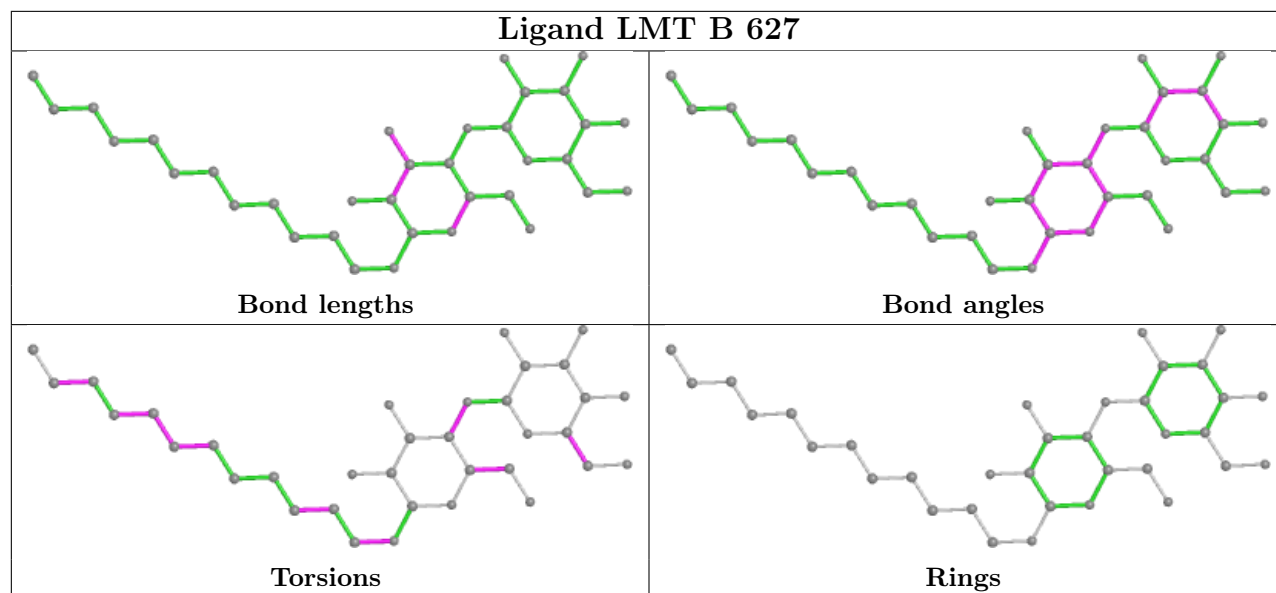


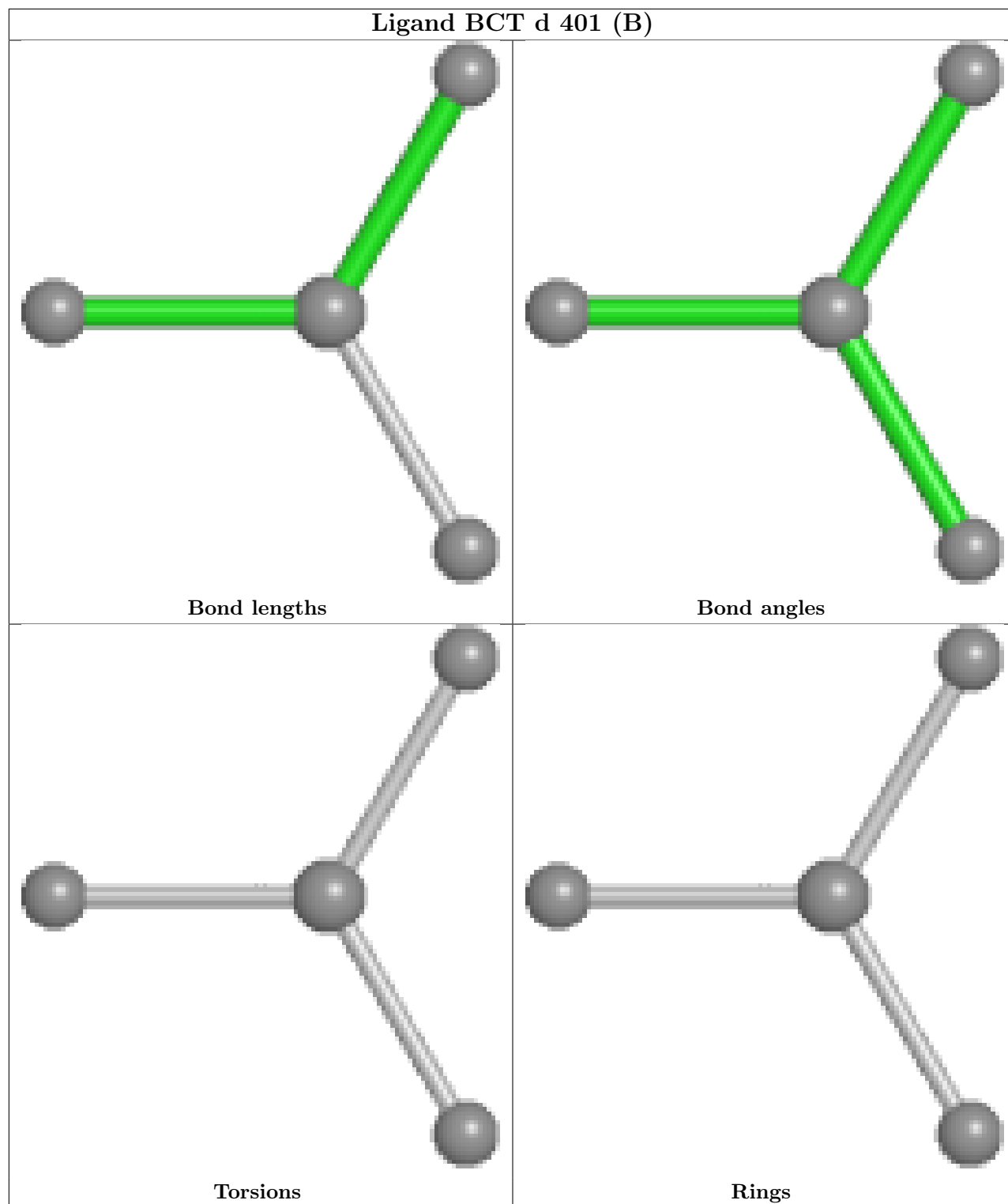


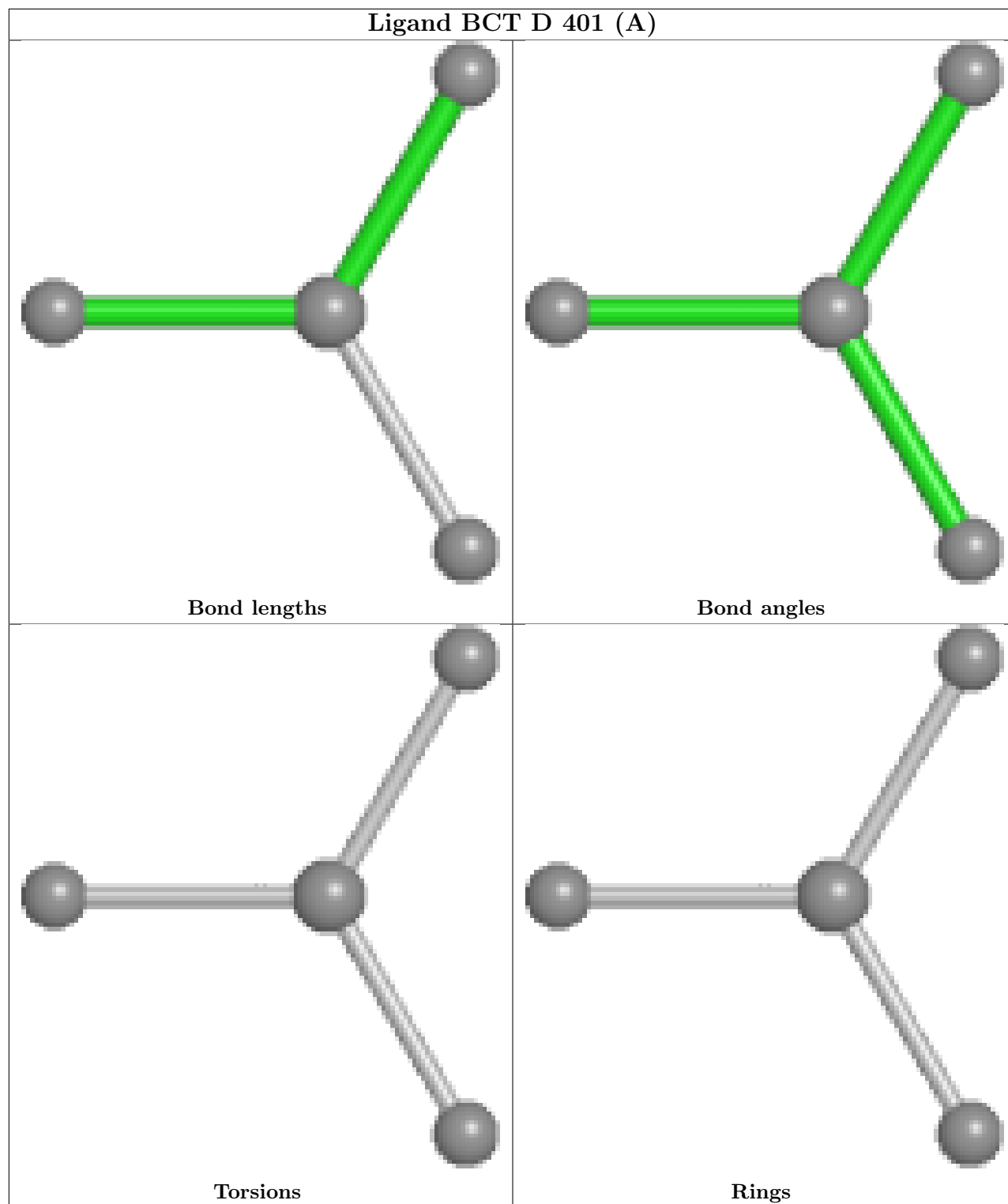


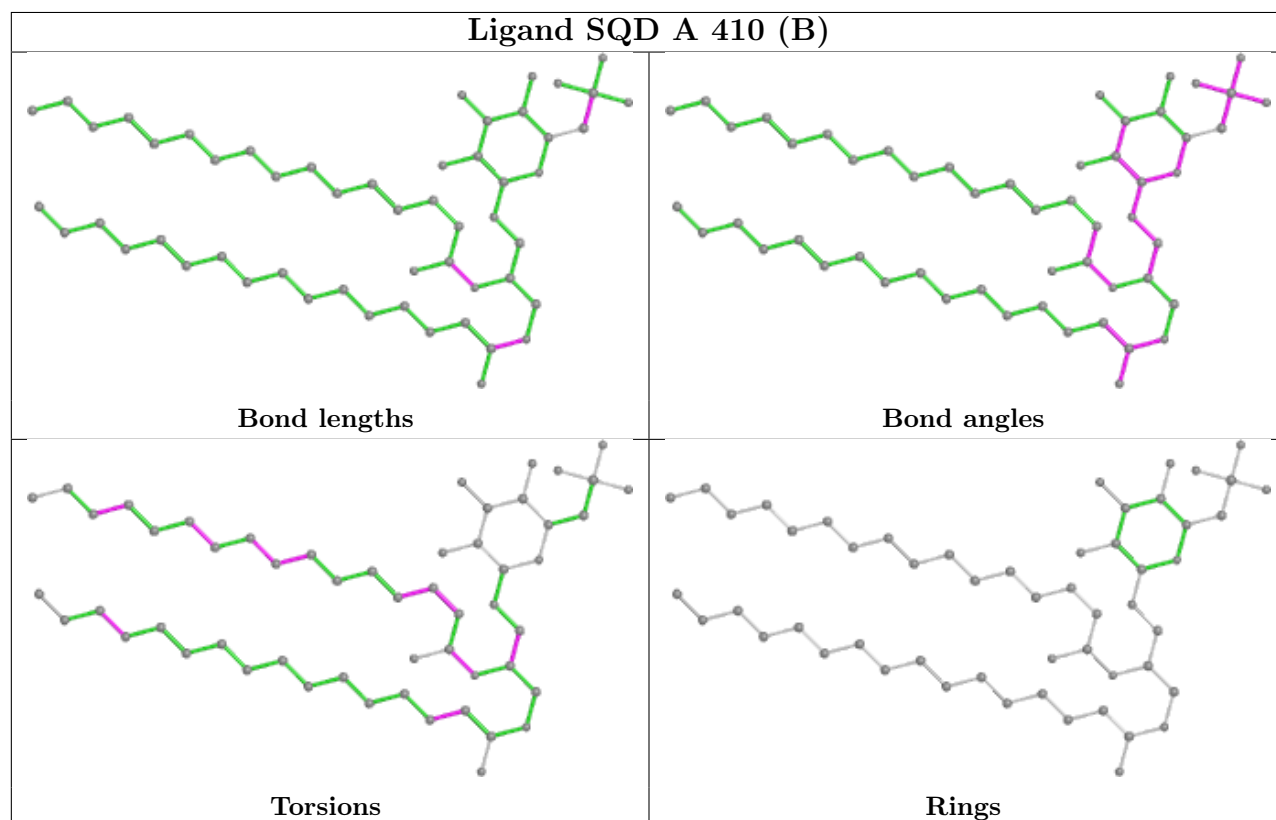
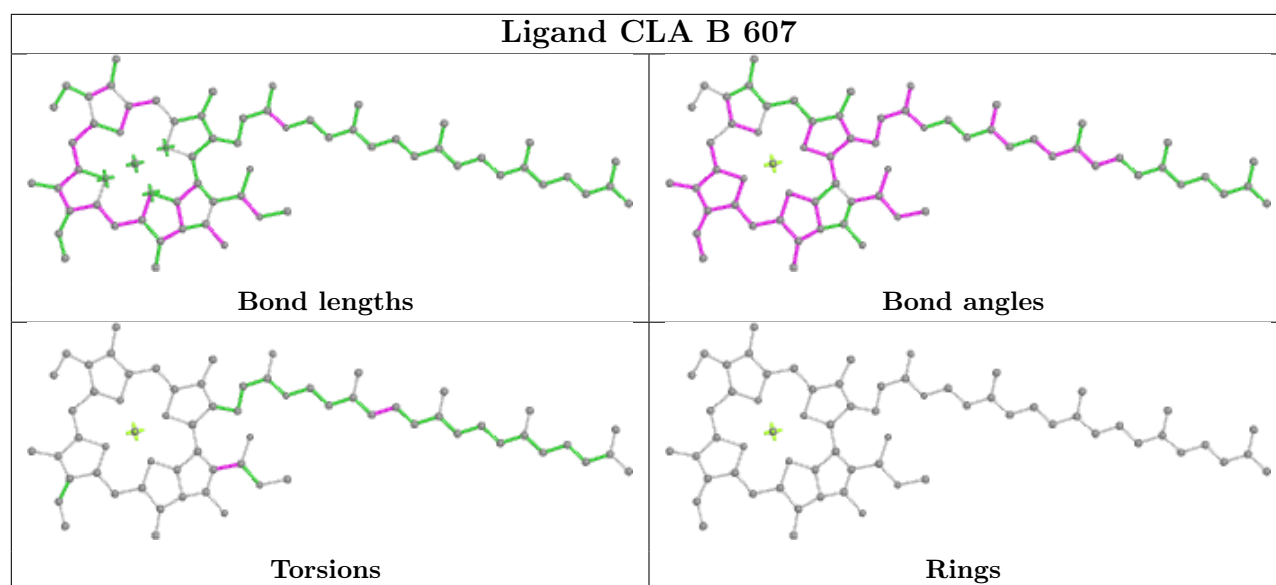


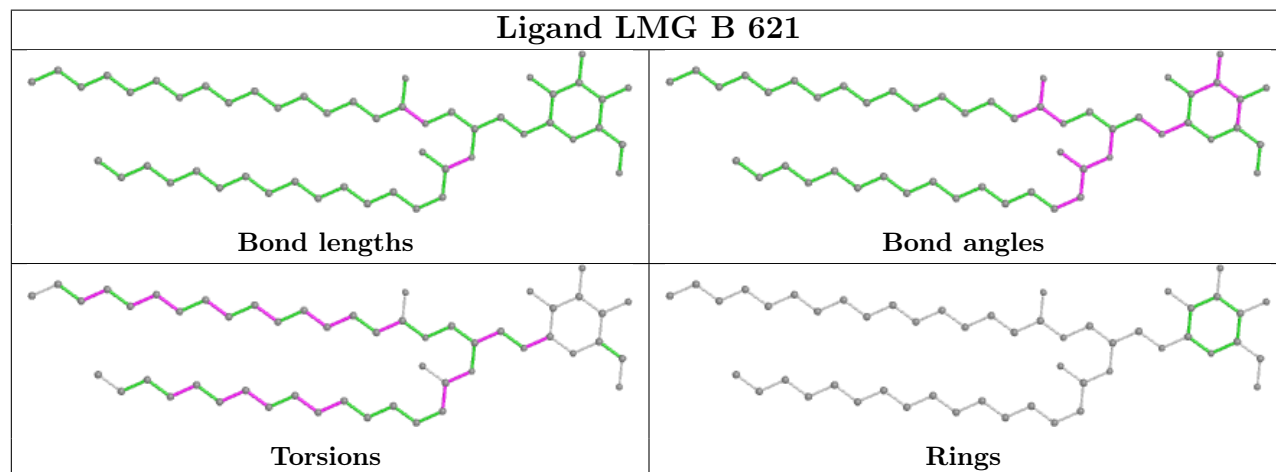
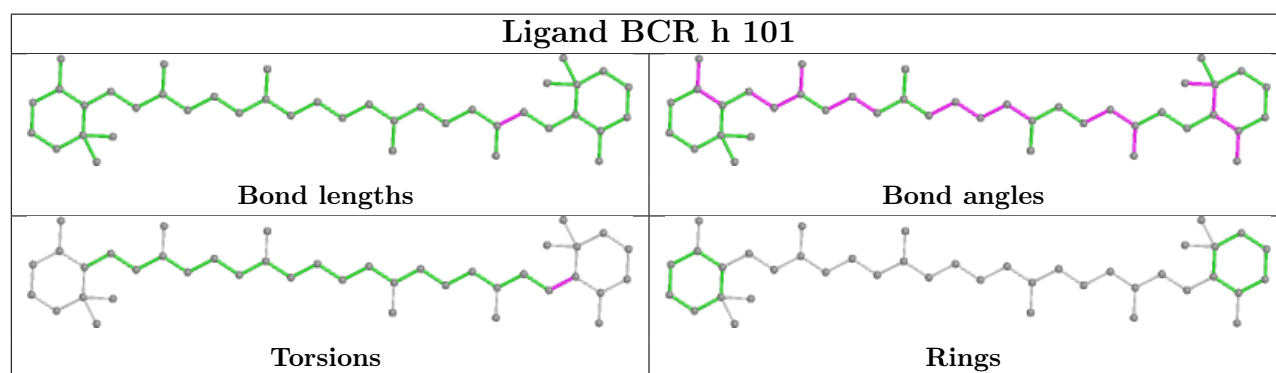
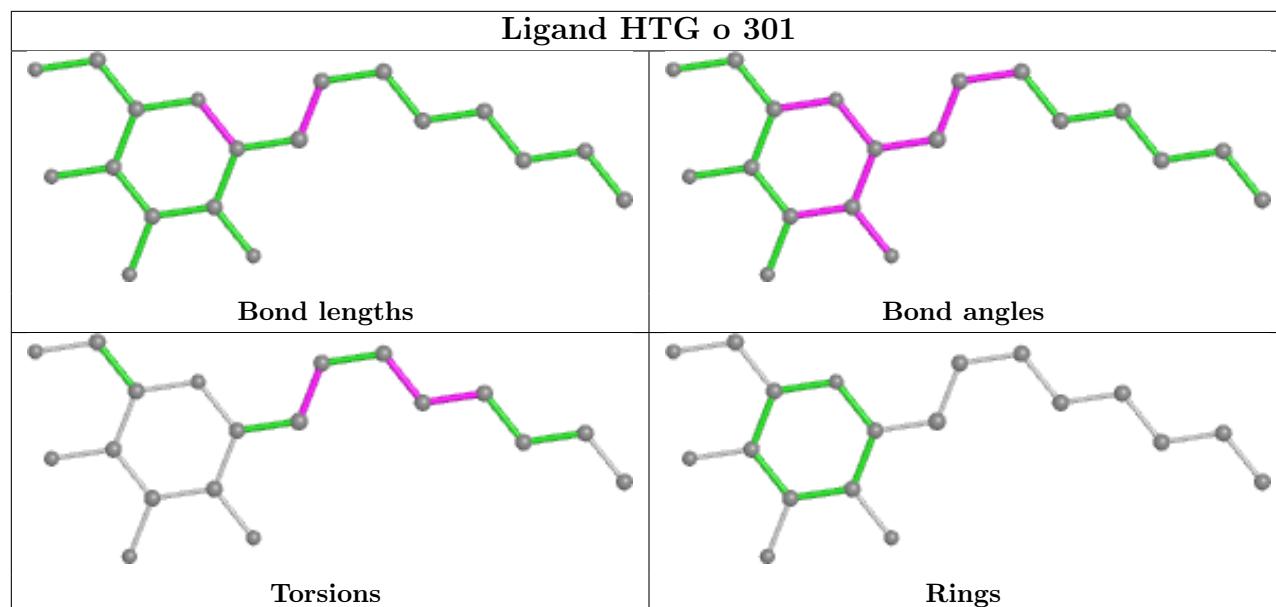




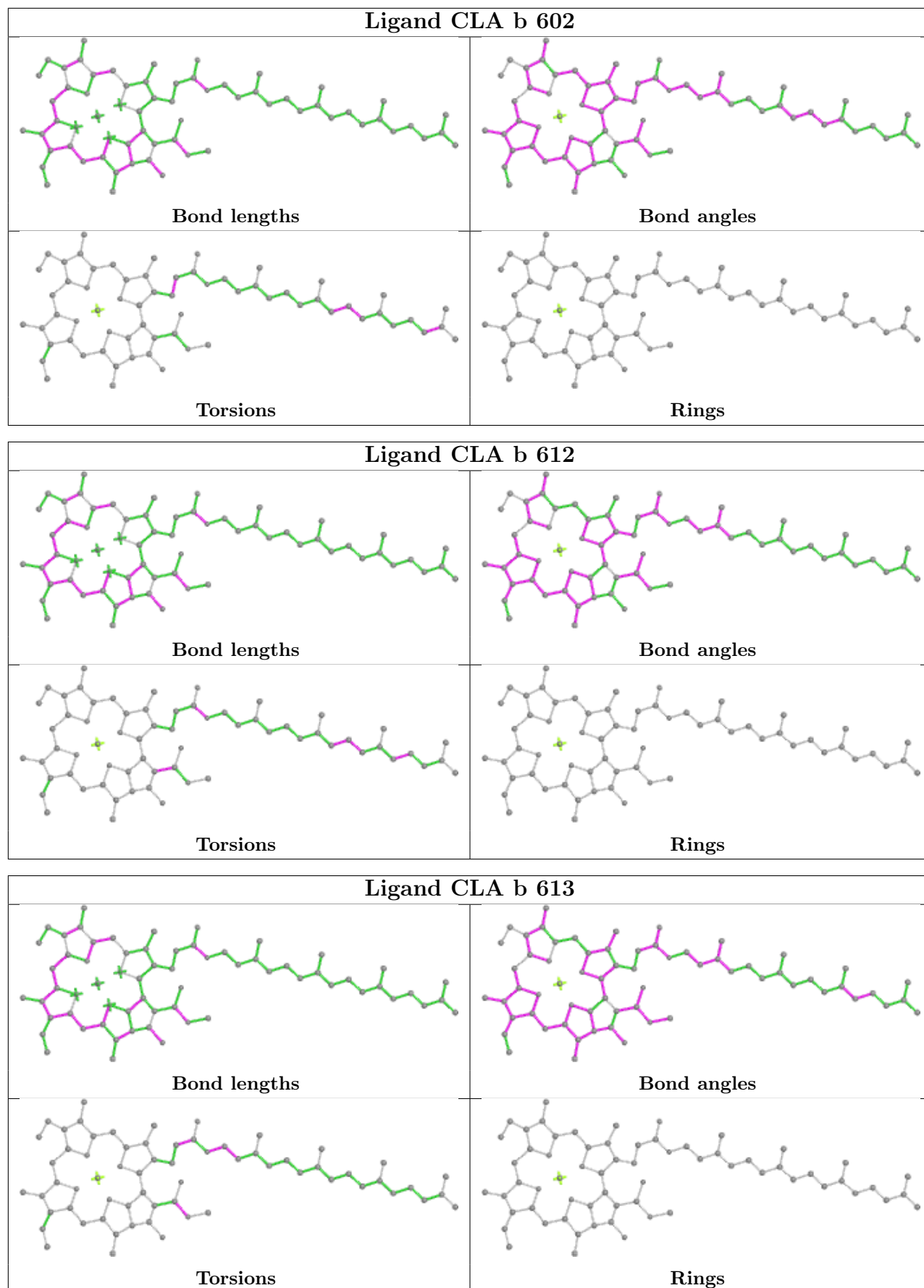


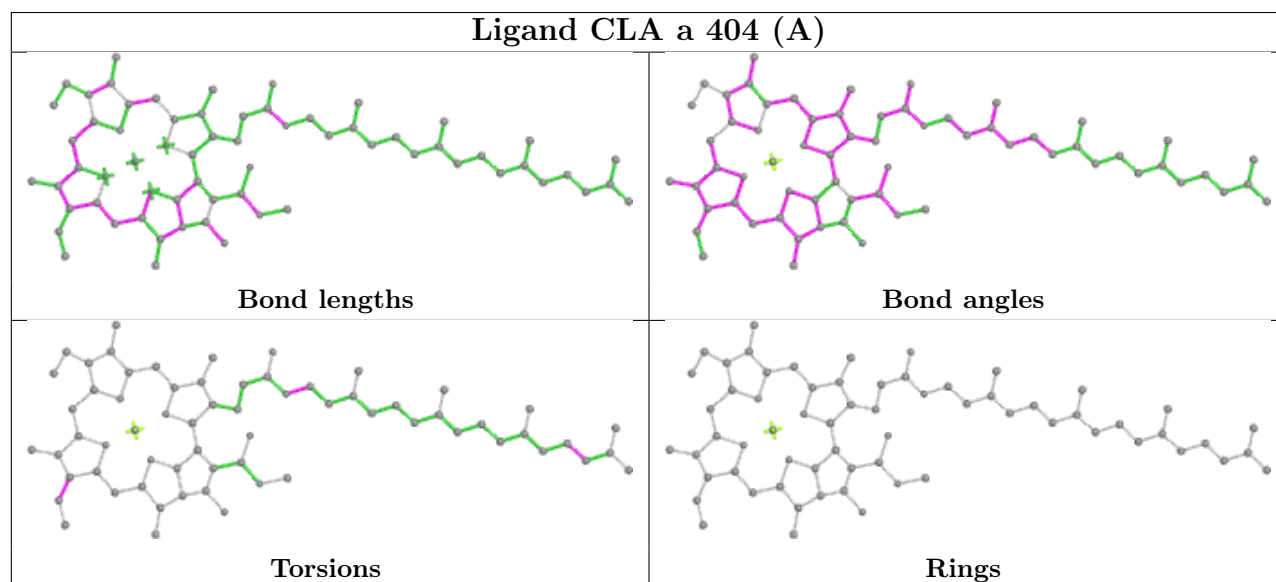
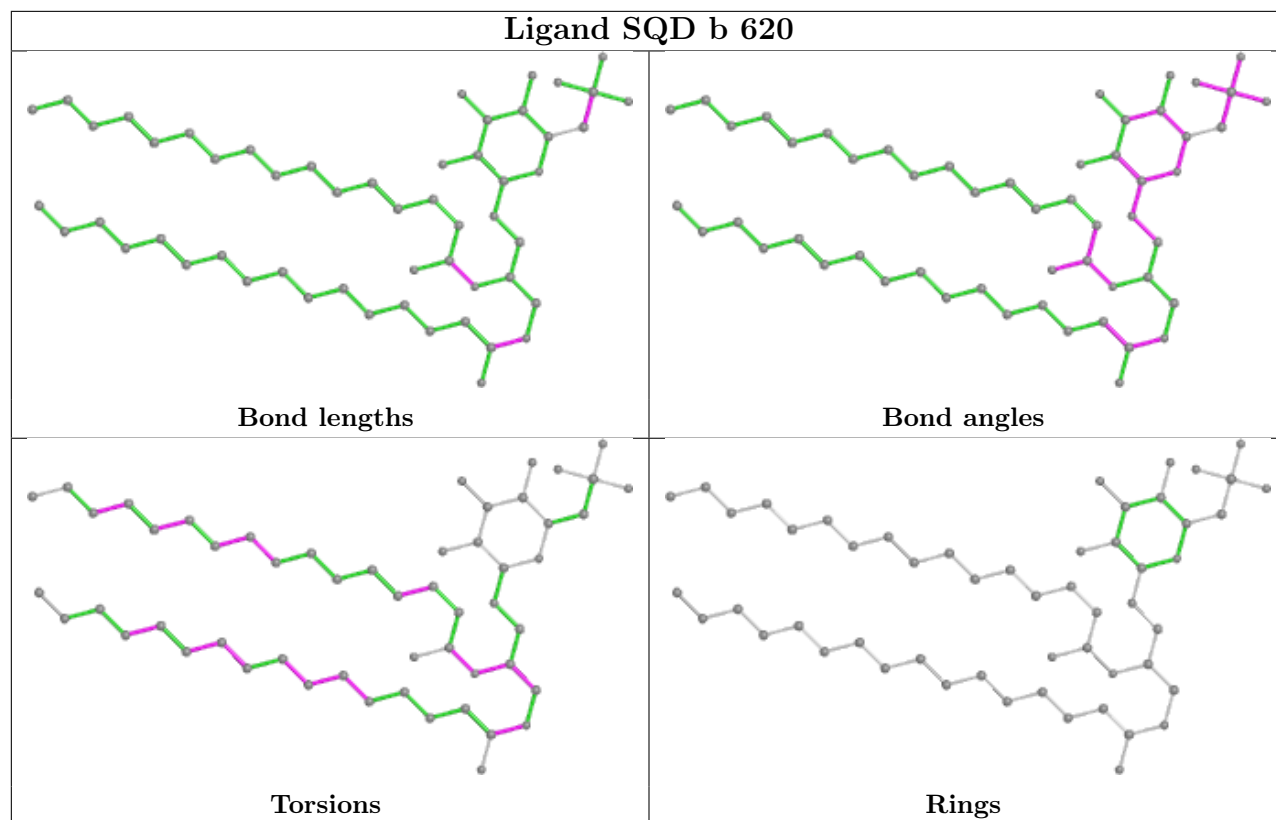


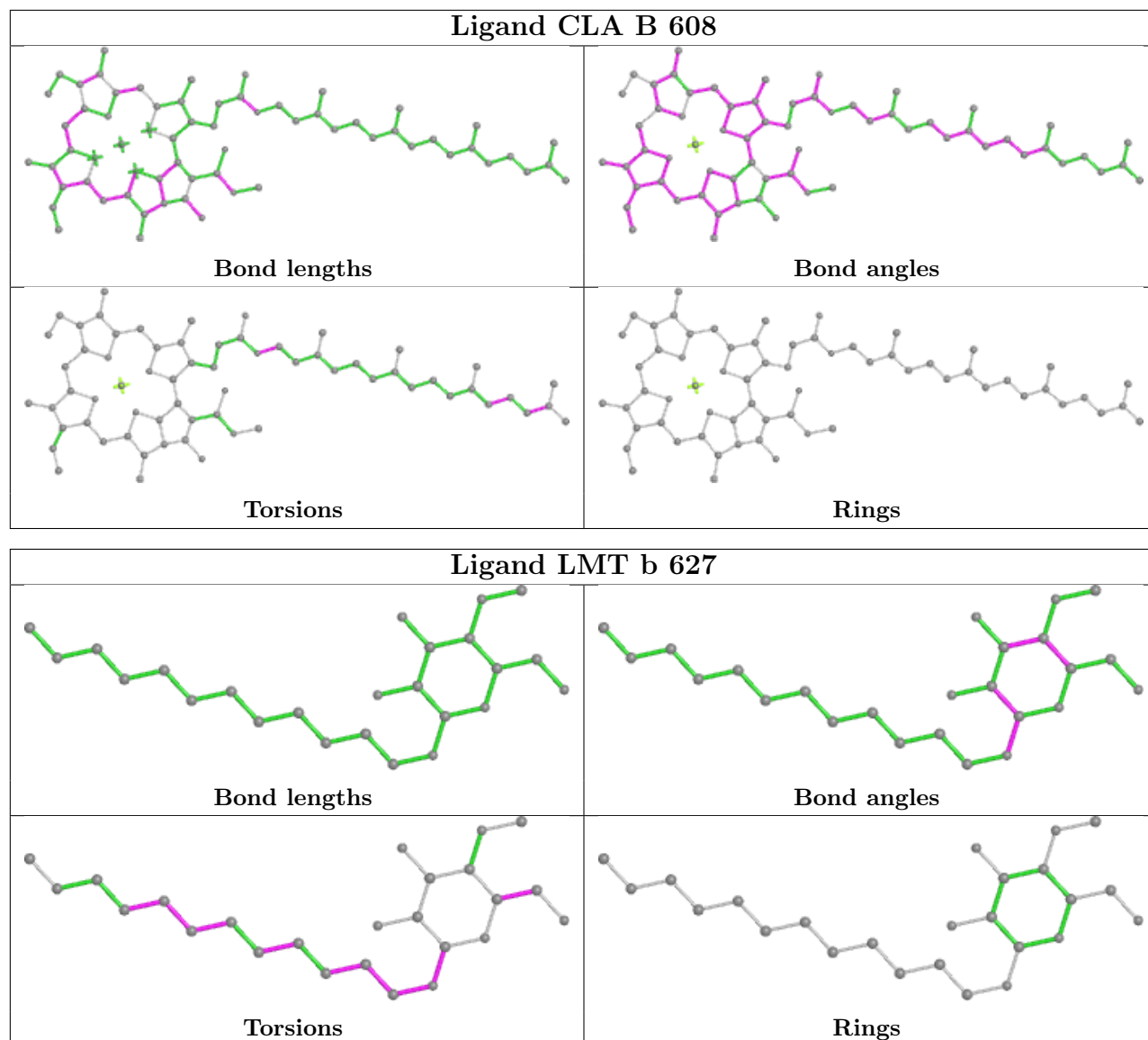


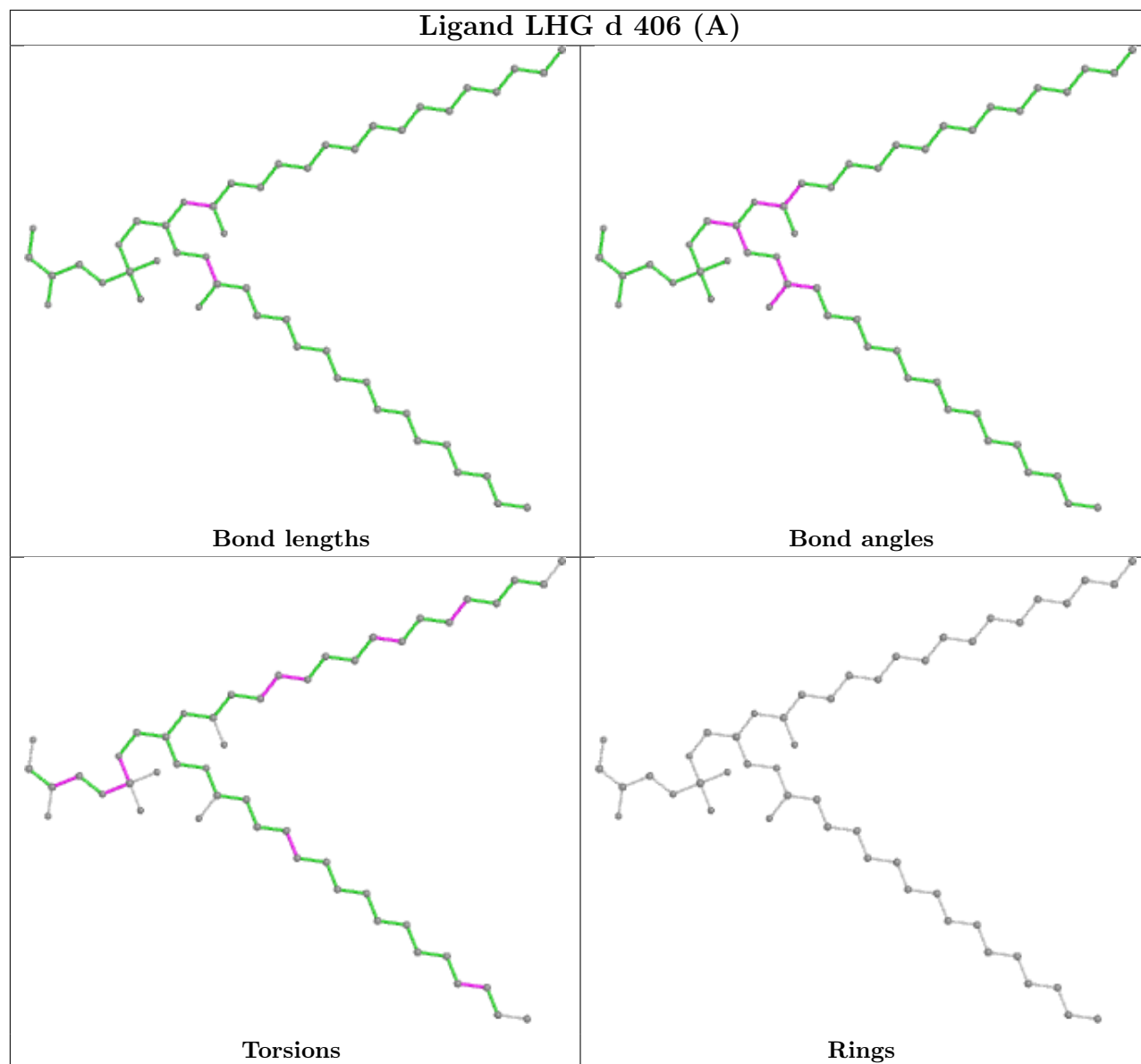


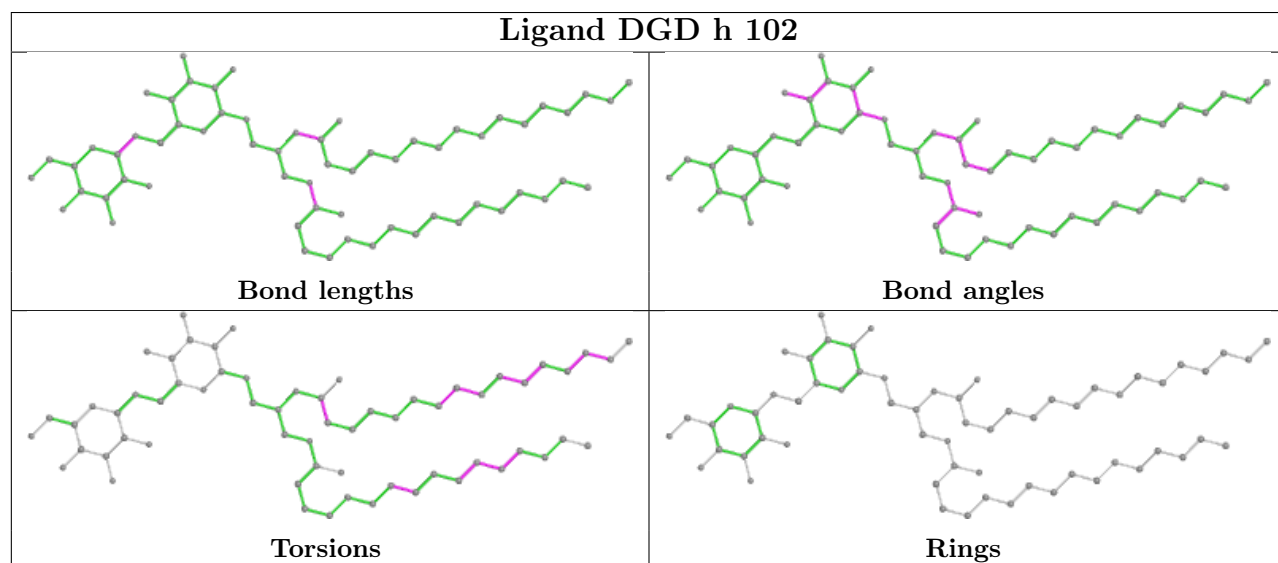
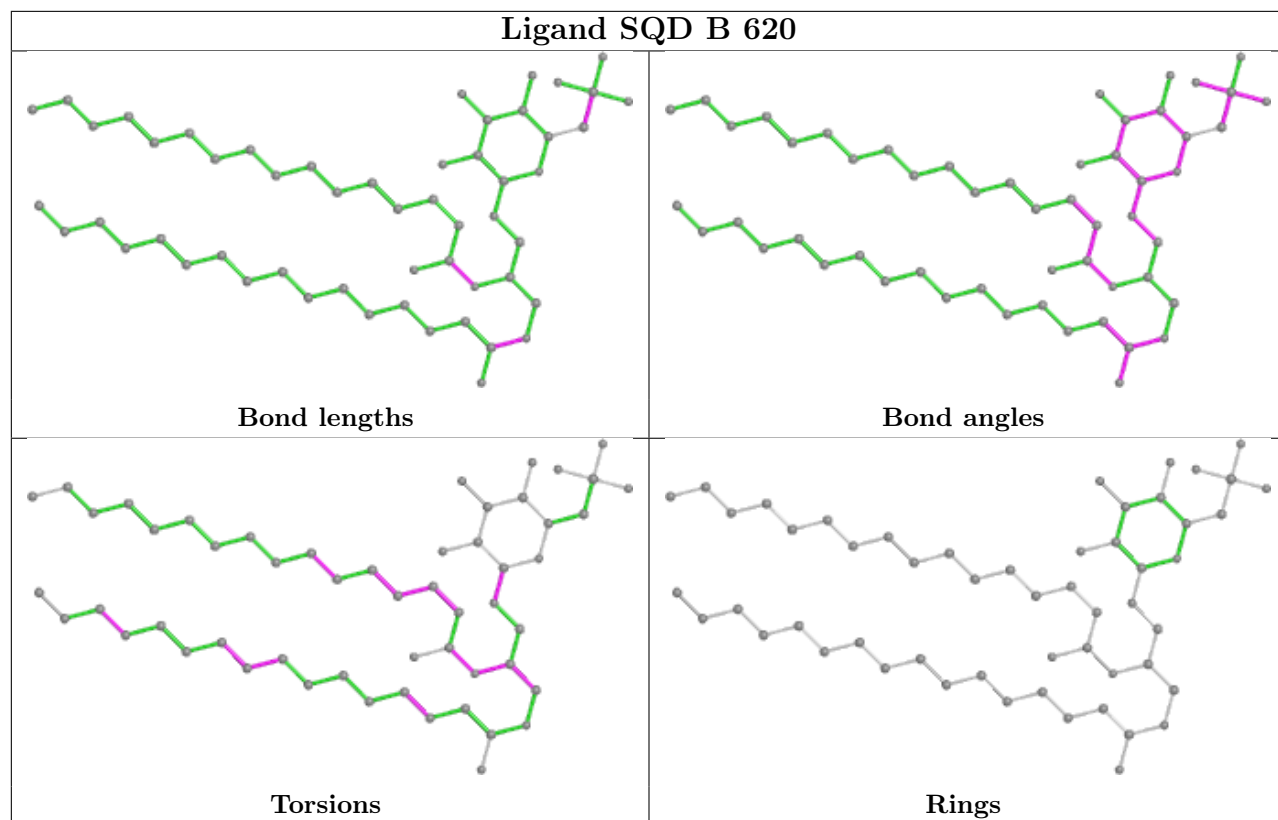


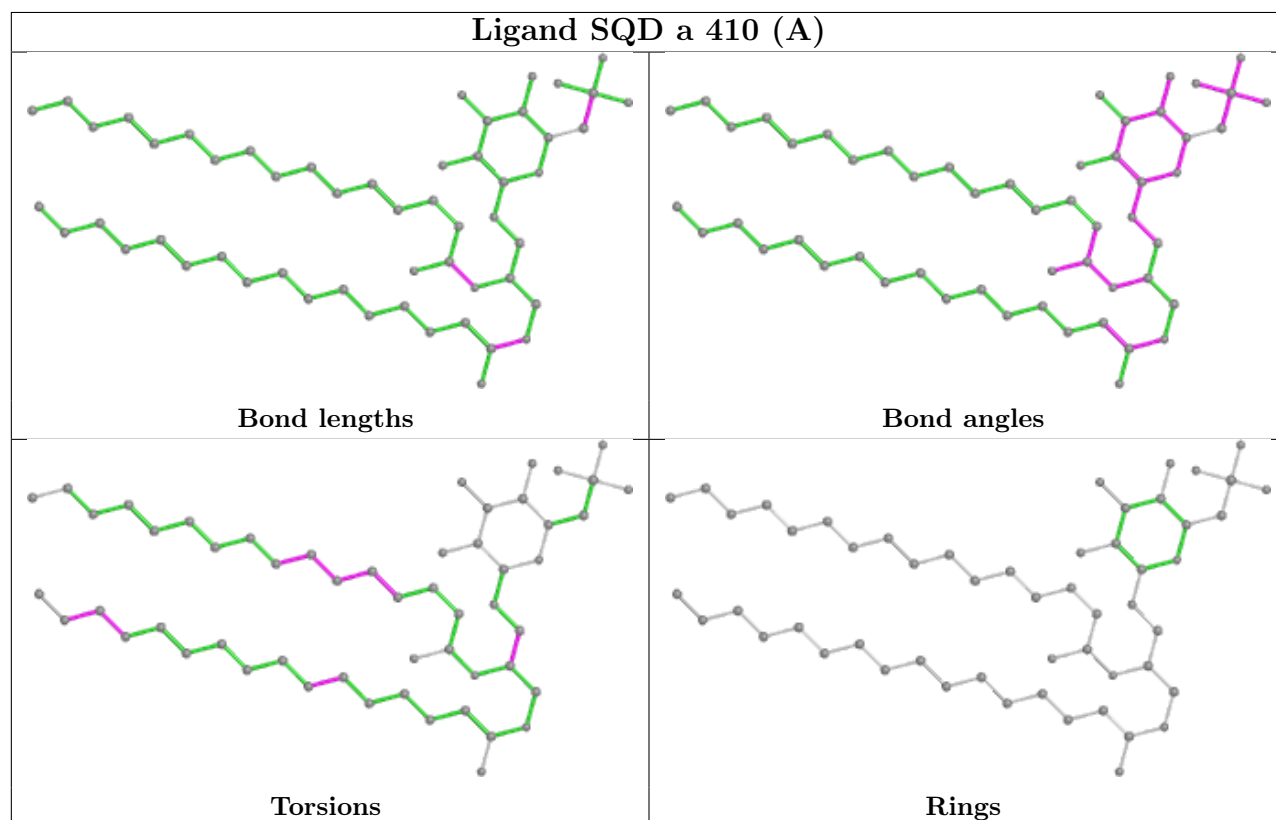
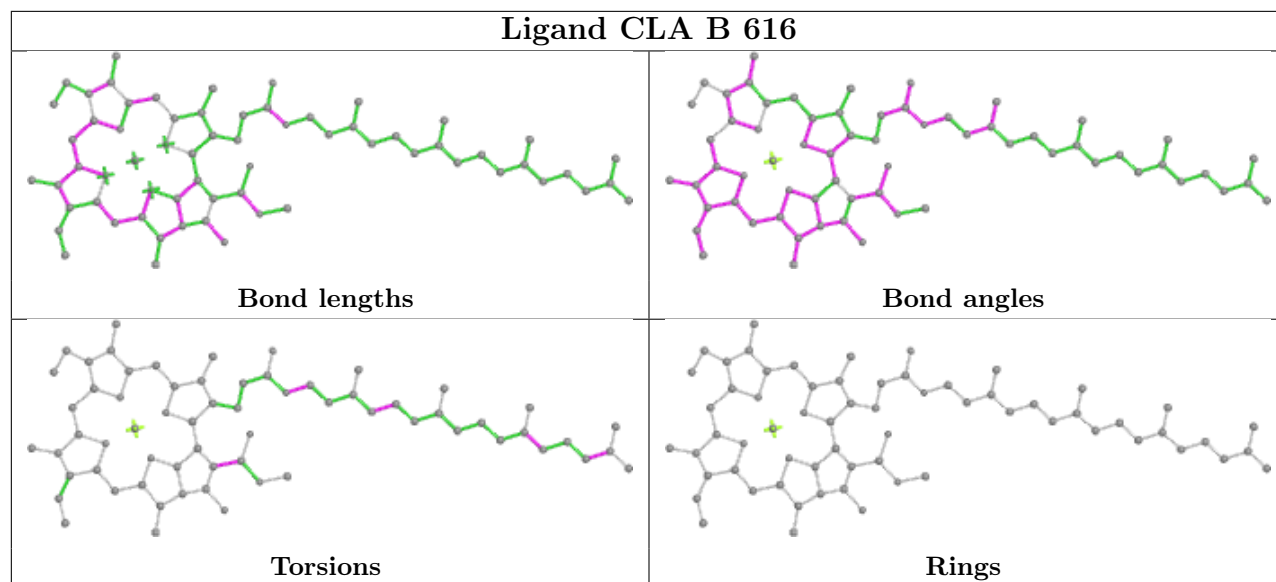


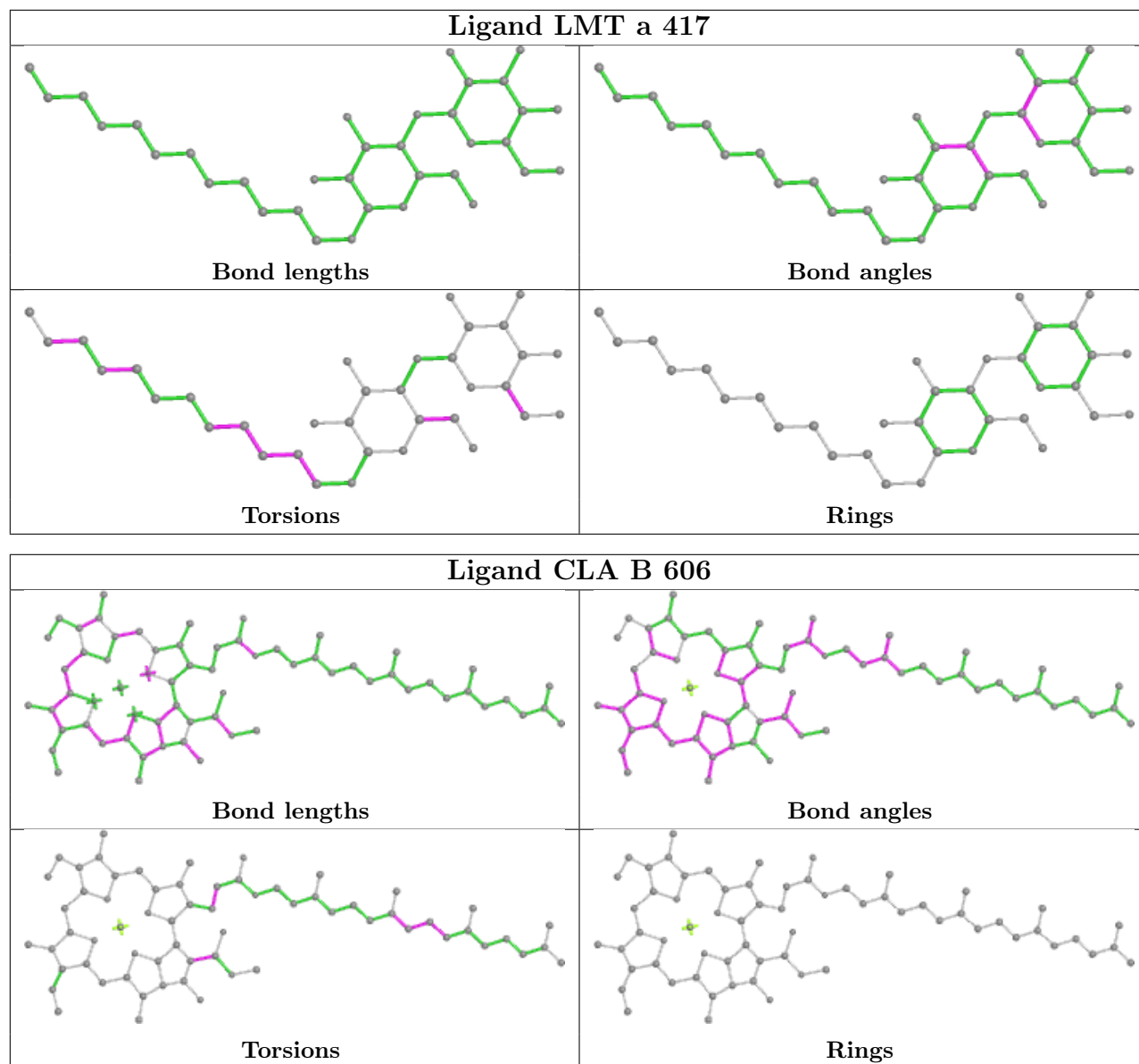


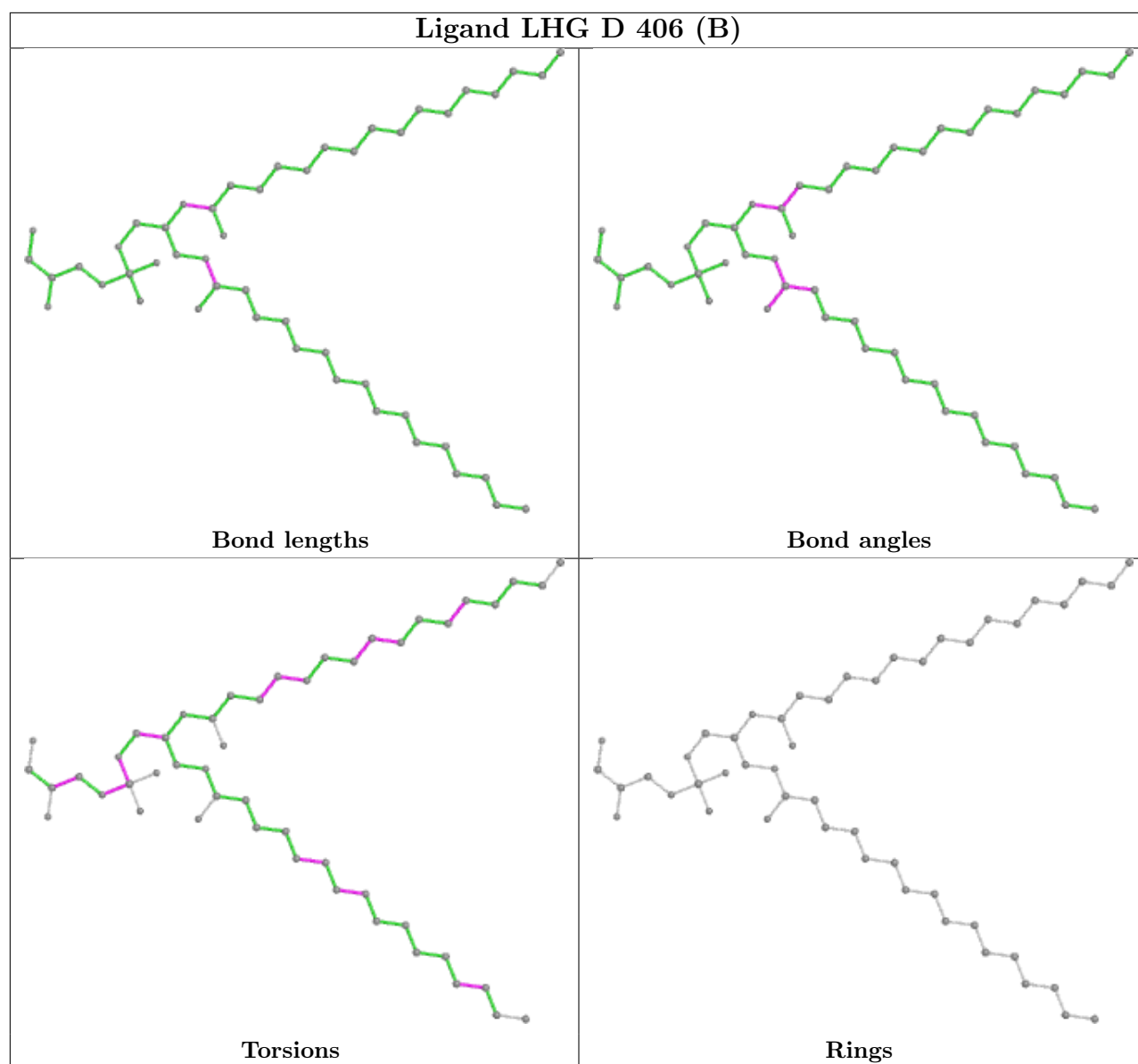




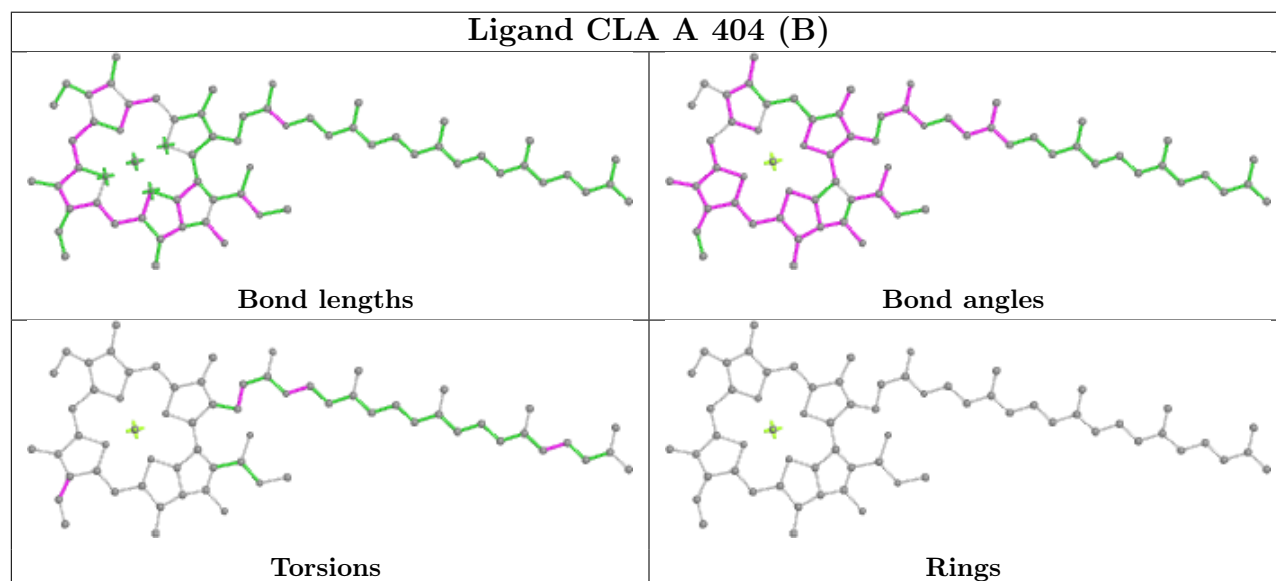
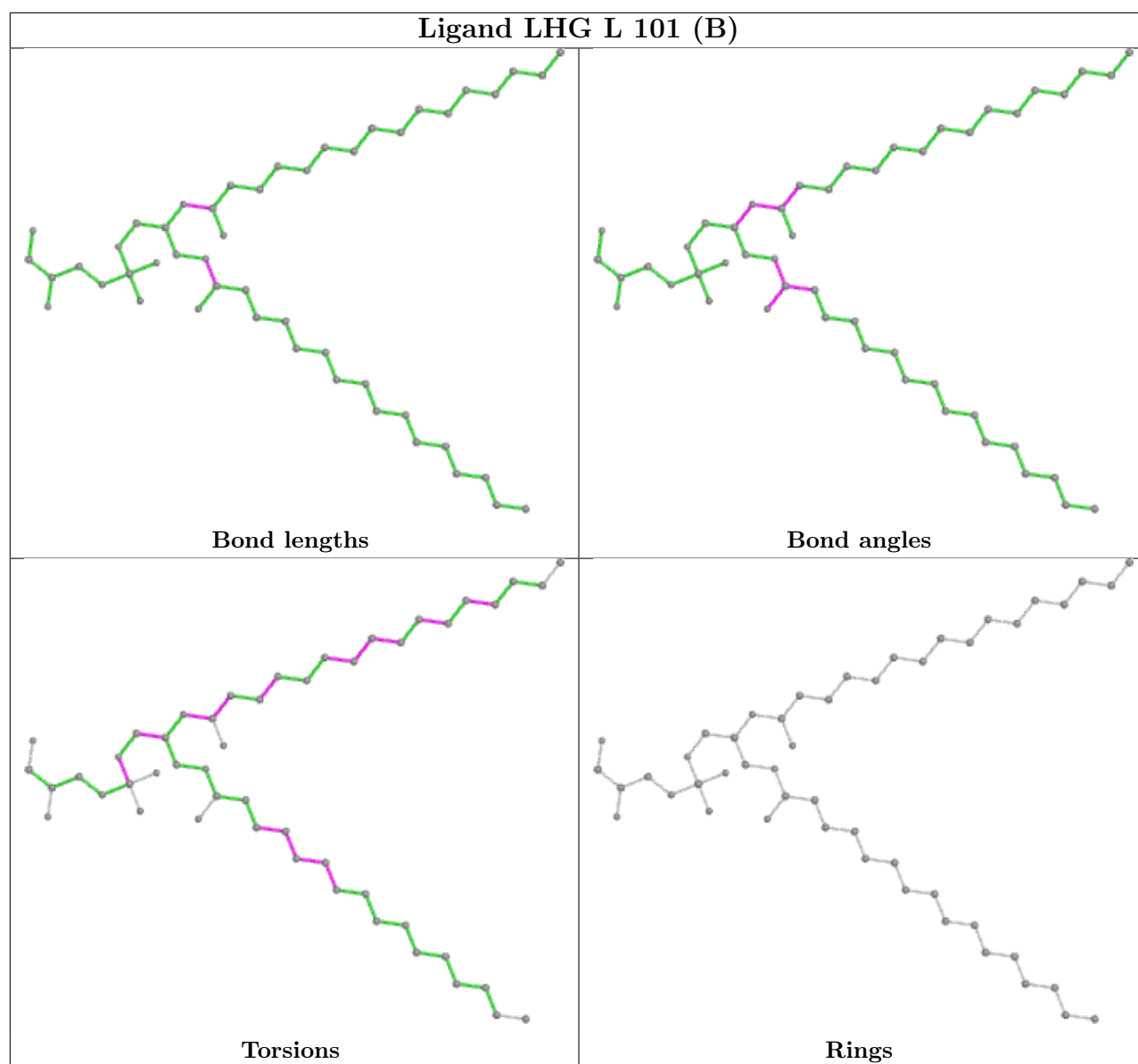












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

## 6 Fit of model and data [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	334/344 (97%)	-0.81	4 (1%) 79 81	38, 47, 69, 119	0
1	a	334/344 (97%)	-0.69	9 (2%) 54 57	40, 51, 80, 128	0
2	B	504/505 (99%)	-0.54	13 (2%) 56 59	40, 54, 83, 116	0
2	b	504/505 (99%)	-0.31	31 (6%) 20 22	43, 58, 100, 150	1 (0%)
3	C	451/455 (99%)	-0.55	7 (1%) 72 74	43, 60, 83, 136	0
3	c	455/455 (100%)	-0.45	14 (3%) 49 52	49, 66, 88, 128	2 (0%)
4	D	342/342 (100%)	-0.75	4 (1%) 79 81	38, 48, 67, 135	0
4	d	341/342 (99%)	-0.72	4 (1%) 79 81	40, 53, 78, 133	0
5	E	81/84 (96%)	-0.09	5 (6%) 20 22	51, 69, 100, 158	0
5	e	79/84 (94%)	0.20	9 (11%) 5 4	61, 76, 118, 147	0
6	F	34/44 (77%)	-0.45	2 (5%) 22 24	52, 62, 89, 115	0
6	f	31/44 (70%)	-0.27	2 (6%) 18 20	60, 68, 98, 138	0
7	H	64/65 (98%)	-0.31	2 (3%) 49 52	53, 64, 88, 108	0
7	h	64/65 (98%)	-0.30	3 (4%) 31 34	58, 74, 95, 104	0
8	I	37/38 (97%)	-0.14	3 (8%) 12 13	55, 66, 123, 149	0
8	i	37/38 (97%)	-0.03	5 (13%) 3 2	55, 64, 116, 132	0
9	J	38/39 (97%)	-0.19	3 (7%) 12 14	48, 68, 117, 151	0
9	j	39/39 (100%)	0.29	6 (15%) 2 2	57, 77, 119, 150	0
10	K	37/37 (100%)	-0.58	1 (2%) 54 57	56, 67, 88, 106	0
10	k	37/37 (100%)	-0.44	0 100 100	66, 75, 97, 113	0
11	L	36/37 (97%)	-0.39	4 (11%) 5 5	37, 45, 103, 126	0
11	l	36/37 (97%)	-0.45	2 (5%) 24 26	40, 46, 101, 112	0
12	M	32/36 (88%)	-0.71	1 (3%) 49 52	42, 47, 72, 132	0
12	m	33/36 (91%)	-0.47	2 (6%) 21 23	41, 48, 69, 145	0

*Continued on next page...*

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	O	243/244 (99%)	-0.07	18 (7%) 14 15	41, 65, 120, 162	0
13	o	243/244 (99%)	0.01	23 (9%) 8 8	44, 68, 125, 158	0
14	T	29/32 (90%)	-0.62	3 (10%) 6 6	42, 48, 75, 99	0
14	t	29/32 (90%)	-0.69	1 (3%) 45 47	44, 49, 80, 109	0
15	U	96/104 (92%)	-0.45	0 100 100	47, 57, 91, 97	0
15	u	97/104 (93%)	-0.42	1 (1%) 82 84	50, 61, 80, 126	0
16	V	137/137 (100%)	-0.60	0 100 100	46, 56, 81, 105	0
16	v	137/137 (100%)	-0.19	3 (2%) 62 65	53, 71, 102, 133	0
17	X	38/40 (95%)	-0.35	2 (5%) 26 29	62, 73, 93, 111	0
17	x	38/40 (95%)	0.03	4 (10%) 6 6	68, 82, 125, 156	0
18	Y	29/30 (96%)	1.02	6 (20%) 1 1	69, 84, 119, 128	0
18	y	29/30 (96%)	0.34	4 (13%) 2 2	76, 91, 110, 114	0
19	Z	62/62 (100%)	0.08	7 (11%) 5 4	67, 81, 131, 151	0
19	z	62/62 (100%)	0.44	11 (17%) 1 1	82, 95, 140, 172	0
20	R	34/34 (100%)	2.32	22 (64%) 0 0	85, 109, 135, 146	0
All	All	5283/5384 (98%)	-0.41	241 (4%) 32 35	37, 59, 101, 172	3 (0%)

All (241) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	E	84	LYS	9.5
3	C	23	ALA	8.5
1	a	11	ALA	8.2
3	c	20	SER	7.9
2	b	495	PHE	7.4
13	O	60	ARG	7.3
2	b	494	GLY	6.9
13	O	56	PRO	6.7
13	o	4	THR	6.5
18	Y	19	ILE	6.3
17	x	38	GLN	6.2
13	O	62	GLU	6.2
19	Z	31	GLN	6.0
13	o	56	PRO	6.0
20	R	35	LEU	5.9
3	c	19	ASN	5.9
18	Y	18	VAL	5.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
12	m	34	LYS	5.7
5	e	84	LYS	5.6
19	Z	32	ASP	5.5
12	M	33	GLN	5.3
17	x	2	THR	5.3
2	b	502	VAL	5.3
14	T	30[A]	THR	5.2
13	o	60	ARG	5.2
13	O	4	THR	5.1
1	A	11	ALA	5.1
6	f	15	ILE	5.1
6	F	12	SER	5.0
19	z	3	ILE	4.9
19	z	32	ASP	4.9
13	o	62	GLU	4.9
2	b	504	THR	4.8
9	j	3	GLU	4.8
13	o	58	ASN	4.8
20	R	32	GLN	4.8
13	O	59	LYS	4.7
19	z	31	GLN	4.7
3	c	143	TYR	4.6
2	b	503	THR	4.6
4	D	12	ARG	4.6
20	R	3	TRP	4.6
13	o	59	LYS	4.5
18	y	18	VAL	4.5
1	a	262[A]	TYR	4.5
19	Z	3	ILE	4.5
11	L	3	PRO	4.4
12	m	33	GLN	4.4
13	O	5	LEU	4.4
19	z	60	PHE	4.4
19	Z	30	PRO	4.4
19	z	35	ARG	4.3
11	l	3	PRO	4.3
2	b	489	GLU	4.3
13	O	63	ALA	4.3
13	o	61	GLN	4.3
13	o	24	ASP	4.2
9	j	1	MET	4.2
8	I	36	ASP	4.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	b	493[A]	TRP	4.1
2	b	127	ARG	4.1
2	b	293	ALA	4.0
3	c	21	ILE	4.0
18	y	41	VAL	4.0
20	R	20	VAL	4.0
20	R	33	LYS	4.0
13	o	63	ALA	4.0
2	B	494	GLY	4.0
18	Y	20	ALA	4.0
18	y	43	ARG	3.9
19	z	38	GLN	3.9
3	C	143	TYR	3.9
11	L	7	ARG	3.9
9	j	5	GLY	3.9
19	z	30	PRO	3.9
7	h	6	TRP	3.8
2	b	487	SER	3.8
2	b	505	ARG	3.8
13	o	57	LYS	3.8
20	R	21	ARG	3.8
9	J	3	GLU	3.8
13	o	25	THR	3.8
4	D	11	GLU	3.8
2	b	484[A]	PRO	3.7
7	H	6	TRP	3.7
13	O	61	GLN	3.7
2	b	485	GLU	3.7
3	c	23	ALA	3.7
18	Y	43	ARG	3.7
3	C	207	ARG	3.6
2	b	496	TYR	3.6
16	v	15	GLU	3.6
14	t	30[A]	THR	3.6
9	j	2	SER	3.5
3	c	22	PHE	3.5
9	j	4	GLY	3.5
20	R	4	ARG	3.5
6	F	13	TYR	3.5
20	R	34	LEU	3.4
19	z	42	LEU	3.4
13	O	55	GLU	3.3

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Mol	Chain	Res	Type	RSRZ
6	f	16[A]	PHE	3.3
8	i	38	GLU	3.3
13	o	207	ARG	3.3
2	b	486[A]	LEU	3.3
2	B	485	GLU	3.3
11	l	2	GLU	3.3
8	I	34	ARG	3.3
20	R	24	LEU	3.3
19	Z	34	ASP	3.3
20	R	29	LYS	3.2
19	z	34	ASP	3.2
16	v	17	LYS	3.2
13	o	64	GLU	3.2
1	A	13	LEU	3.2
9	j	6	ARG	3.2
19	Z	35	ARG	3.2
20	R	16	ALA	3.2
5	e	81	GLU	3.1
17	X	38	GLN	3.1
17	x	39	ARG	3.1
13	O	25	THR	3.1
2	b	295	GLY	3.1
13	o	55	GLU	3.1
13	o	35	SER	3.0
5	e	6	GLY	3.0
20	R	18	TRP	3.0
2	B	293	ALA	3.0
5	E	61	ARG	3.0
13	o	134	THR	3.0
9	J	6	ARG	3.0
16	v	16	GLY	3.0
13	o	5	LEU	3.0
2	b	488	PRO	3.0
18	Y	21	GLN	3.0
8	i	37	LEU	2.9
3	C	24	THR	2.9
13	O	58	ASN	2.9
3	c	207	ARG	2.9
5	e	82	GLN	2.9
2	B	487	SER	2.9
8	i	34	ARG	2.9
1	a	263[A]	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
2	b	373	LYS	2.8
2	b	374	ASN	2.8
17	X	2	THR	2.8
18	y	19	ILE	2.8
18	Y	22	LEU	2.8
2	b	501	ASP	2.8
2	B	295	GLY	2.8
8	i	36	ASP	2.8
20	R	5	VAL	2.7
13	o	23	ASP	2.7
2	b	294	SER	2.7
2	b	497	GLN	2.7
13	O	89	SER	2.7
4	D	238[A]	THR	2.7
4	d	12	ARG	2.7
9	J	5	GLY	2.7
13	o	27	ARG	2.6
11	L	5	PRO	2.6
13	o	211	ILE	2.6
2	b	86	ILE	2.6
5	E	82	GLN	2.6
20	R	25	PRO	2.6
20	R	19	ALA	2.6
3	C	142	GLU	2.6
2	b	500	GLY	2.6
20	R	6	LEU	2.6
1	A	16	ARG	2.5
1	a	13	LEU	2.5
2	b	85	GLY	2.5
2	b	376	VAL	2.5
2	B	128	THR	2.5
4	d	237[A]	PRO	2.5
8	i	35	LYS	2.5
14	T	29[A]	ILE	2.5
13	O	132	ASN	2.4
17	x	3	ILE	2.4
8	I	37	LEU	2.4
13	o	246	ALA	2.4
3	C	191	PRO	2.4
2	b	375	GLY	2.4
5	E	59	GLU	2.4
5	e	59	GLU	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	d	236[A]	ASN	2.4
13	O	27	ARG	2.4
1	A	262[A]	TYR	2.4
2	b	126	PRO	2.4
15	u	8	GLU	2.4
10	K	10	LYS	2.4
13	O	211	ILE	2.4
2	B	296	ALA	2.4
3	c	233	VAL	2.4
1	a	242[A]	GLU	2.3
2	B	373	LYS	2.3
20	R	31	VAL	2.3
5	E	6	GLY	2.3
1	a	228	THR	2.3
3	c	234	VAL	2.3
11	L	2	GLU	2.3
13	O	24	ASP	2.3
5	e	24	SER	2.3
2	b	435	GLU	2.3
3	c	145	SER	2.3
19	Z	2	THR	2.2
3	c	192	GLY	2.2
13	O	207	ARG	2.2
20	R	27	ALA	2.2
2	B	374	ASN	2.2
2	B	435[A]	GLU	2.2
20	R	17	GLY	2.2
4	D	107	LEU	2.2
2	B	495	PHE	2.2
13	O	90	ASP	2.2
5	e	25	ILE	2.2
5	e	61	ARG	2.1
7	h	3[A]	ARG	2.1
20	R	28	VAL	2.1
19	z	62	VAL	2.1
3	C	181	PHE	2.1
2	B	489	GLU	2.1
1	a	235[A]	TYR	2.1
2	B	162	PHE	2.1
3	c	142	GLU	2.1
14	T	28[A]	ARG	2.1
2	b	129	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
20	R	13	LEU	2.1
13	o	33	ASP	2.1
5	e	42	LEU	2.1
7	H	65	LEU	2.1
3	c	191	PRO	2.1
3	c	201	ASN	2.0
1	a	264[A]	SER	2.0
19	z	61	VAL	2.0
2	b	350	GLU	2.0
1	a	261[A]	GLN	2.0
13	o	34	SER	2.0
7	h	23	PRO	2.0
20	R	14	LEU	2.0
4	d	238[A]	THR	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
8	FME	i	1	10/11	0.89	0.17	58,72,80,83	0
14	FME	T	1	10/11	0.95	0.09	42,51,66,69	0
8	FME	I	1	10/11	0.97	0.08	63,75,82,85	0
12	FME	M	1	10/11	0.97	0.14	45,59,93,93	0
14	FME	t	1	10/11	0.97	0.09	41,48,61,76	0
12	FME	m	1	10/11	0.98	0.14	49,61,90,112	0

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	UNL	b	626	33/-	0.45	0.38	67,95,159,168	0
30	UNL	B	625	33/-	0.46	0.36	51,115,144,151	0
30	UNL	I	101	40/-	0.50	0.33	75,99,155,162	0
31	LMT	M	103	35/35	0.50	0.29	68,117,169,174	0
31	LMT	b	621	25/35	0.54	0.30	80,109,160,169	0
31	LMT	B	629	35/35	0.57	0.38	65,109,141,142	0
33	LMG	C	521	51/55	0.57	0.31	62,120,157,171	0
31	LMT	M	101	35/35	0.61	0.28	62,90,110,117	0
30	UNL	B	630	40/-	0.62	0.29	71,106,157,158	0
27	GOL	a	418	6/6	0.65	0.61	70,91,103,104	0
30	UNL	j	101	10/-	0.66	0.25	77,90,103,106	0
33	LMG	Z	101	37/55	0.66	0.30	71,123,149,170	0
31	LMT	F	101	35/35	0.67	0.54	99,131,171,175	0
31	LMT	m	103	35/35	0.67	0.28	57,89,102,112	0
30	UNL	A	415	28/-	0.67	0.37	84,112,129,139	0
31	LMT	B	631	25/35	0.67	0.25	58,82,138,164	0
33	LMG	c	520	51/55	0.68	0.29	72,136,163,185	0
36	CA	f	103	1/1	0.68	0.11	122,122,122,122	0
30	UNL	c	524[A]	32/-	0.69	0.43	87,105,121,128	32
30	UNL	c	524[B]	32/-	0.69	0.43	87,105,121,128	32
31	LMT	B	627	35/35	0.70	0.29	66,101,138,146	0
30	UNL	K	101[A]	34/-	0.70	0.37	82,103,115,118	34
30	UNL	K	101[B]	34/-	0.70	0.37	82,103,115,118	34
30	UNL	x	101	18/-	0.71	0.24	67,80,133,135	0
31	LMT	A	417	35/35	0.71	0.33	59,105,131,135	0
32	LHG	a	420[A]	42/49	0.71	0.40	88,132,149,155	42
32	LHG	a	420[B]	42/49	0.71	0.40	88,132,149,155	42
30	UNL	d	409	36/-	0.72	0.20	67,92,132,138	0
34	HTG	b	623	19/19	0.72	0.49	83,131,156,160	0
31	LMT	A	420	35/35	0.72	0.39	90,128,153,167	0
31	LMT	e	101	35/35	0.73	0.56	101,137,181,192	0
34	HTG	D	410	16/19	0.73	0.28	92,106,134,148	0
27	GOL	o	304	6/6	0.74	0.21	78,87,97,108	0
31	LMT	b	627	25/35	0.74	0.21	55,95,148,160	0
27	GOL	b	624	6/6	0.75	0.22	91,95,101,114	0
27	GOL	o	303	6/6	0.76	0.26	81,104,116,122	0
30	UNL	X	101	18/-	0.77	0.20	58,72,105,116	0
30	UNL	a	414	30/-	0.77	0.35	82,114,134,151	0
31	LMT	a	417	35/35	0.77	0.43	108,129,146,150	0
34	HTG	C	522	19/19	0.78	0.33	105,121,140,144	0
26	SQD	f	102	43/54	0.78	0.34	95,128,175,186	0
27	GOL	B	626	6/6	0.78	0.24	64,79,95,110	0
33	LMG	z	101	39/55	0.78	0.24	76,127,152,171	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
30	UNL	m	102	10/-	0.79	0.29	67,75,93,104	0
34	HTG	c	521	19/19	0.80	0.27	104,124,145,146	0
36	CA	F	104	1/1	0.80	0.20	120,120,120,120	0
27	GOL	c	526	6/6	0.80	0.24	91,101,113,116	0
27	GOL	A	411	6/6	0.81	0.18	59,77,81,86	0
30	UNL	M	102	10/-	0.82	0.23	66,76,92,93	0
26	SQD	b	620	54/54	0.82	0.18	61,95,117,129	0
34	HTG	d	410	16/19	0.82	0.29	92,118,137,152	0
33	LMG	a	416	51/55	0.82	0.17	66,94,109,119	0
30	UNL	J	101	10/-	0.82	0.16	62,80,84,96	0
26	SQD	A	412	54/54	0.83	0.17	66,87,123,148	0
26	SQD	B	620	54/54	0.83	0.17	60,90,130,146	0
32	LHG	E	101[A]	42/49	0.83	0.26	73,98,112,119	42
32	LHG	E	101[B]	42/49	0.83	0.26	73,98,112,119	42
30	UNL	D	409	40/-	0.83	0.19	63,87,144,147	0
27	GOL	O	302	6/6	0.83	0.24	79,88,104,105	0
34	HTG	B	622	19/19	0.84	0.24	63,89,107,116	0
27	GOL	A	418	6/6	0.84	0.42	50,70,78,80	0
34	HTG	b	622	19/19	0.85	0.18	58,85,108,115	0
31	LMT	t	101	26/35	0.85	0.18	69,96,138,154	0
33	LMG	C	501	51/55	0.85	0.17	68,86,115,124	0
29	PL9	A	414[A]	55/55	0.86	0.19	58,89,104,114	55
29	PL9	A	414[B]	55/55	0.86	0.19	58,89,104,114	55
29	PL9	a	413[A]	55/55	0.86	0.20	76,98,111,115	55
29	PL9	a	413[B]	55/55	0.86	0.20	76,98,111,115	55
26	SQD	a	411	54/54	0.86	0.20	66,92,136,148	0
25	BCR	C	515	40/40	0.87	0.13	57,76,91,93	0
27	GOL	O	303	6/6	0.87	0.24	71,89,93,94	0
36	CA	o	302	1/1	0.87	0.06	112,112,112,112	0
33	LMG	D	411	51/55	0.88	0.17	49,67,124,138	0
23	CLA	b	601	65/65	0.88	0.15	60,87,126,155	0
23	CLA	c	513	65/65	0.88	0.17	71,96,136,156	0
33	LMG	d	411	51/55	0.88	0.18	53,70,118,146	0
23	CLA	d	403	65/65	0.89	0.15	53,66,133,154	0
33	LMG	c	519	51/55	0.89	0.19	58,93,138,159	0
27	GOL	d	412	6/6	0.89	0.25	51,63,76,86	0
27	GOL	l	801[A]	6/6	0.89	0.69	60,93,96,97	6
27	GOL	l	801[B]	6/6	0.89	0.69	60,93,96,97	6
34	HTG	o	301	19/19	0.89	0.16	57,85,108,117	0
23	CLA	b	616	65/65	0.89	0.16	50,63,129,139	0
27	GOL	a	419	6/6	0.89	0.36	53,77,78,81	0
25	BCR	h	101	40/40	0.89	0.15	58,69,93,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
23	CLA	C	514	65/65	0.90	0.14	63,88,116,127	0
25	BCR	K	102	40/40	0.90	0.16	56,65,75,81	0
27	GOL	V	203[A]	6/6	0.91	0.16	60,68,74,77	6
27	GOL	v	202[A]	6/6	0.91	0.14	64,79,81,82	6
27	GOL	v	202[B]	6/6	0.91	0.14	64,79,81,82	6
27	GOL	V	203[B]	6/6	0.91	0.16	60,69,72,78	6
25	BCR	d	404	40/40	0.91	0.12	48,66,101,113	0
23	CLA	B	601	65/65	0.91	0.13	59,78,116,151	0
23	CLA	c	512	65/65	0.91	0.17	65,83,131,143	0
30	UNL	d	408	17/-	0.92	0.12	64,80,107,110	0
26	SQD	F	103	43/54	0.92	0.17	74,103,133,140	0
25	BCR	Y	101	40/40	0.92	0.12	53,66,78,89	0
33	LMG	B	621	51/55	0.92	0.12	49,69,93,112	0
25	BCR	c	514	40/40	0.92	0.12	72,84,95,101	0
34	HTG	V	202	11/19	0.92	0.48	82,110,121,124	0
33	LMG	C	520	51/55	0.92	0.16	54,83,114,139	0
23	CLA	B	616	65/65	0.92	0.17	46,59,130,139	0
34	HTG	b	625	19/19	0.92	0.11	65,82,94,105	0
23	CLA	b	606	65/65	0.92	0.13	44,62,113,138	0
23	CLA	C	513	65/65	0.92	0.15	60,76,113,131	0
30	UNL	D	408	17/-	0.92	0.14	59,74,104,122	0
35	DGD	c	517[A]	62/66	0.92	0.13	55,69,121,134	62
35	DGD	c	517[B]	62/66	0.92	0.13	55,68,121,135	62
23	CLA	B	606	65/65	0.92	0.14	46,57,115,138	0
27	GOL	B	628	6/6	0.92	0.26	72,76,91,94	0
33	LMG	m	101	51/55	0.92	0.12	50,74,96,116	0
35	DGD	h	102	62/66	0.93	0.12	54,66,77,83	0
27	GOL	D	412	6/6	0.93	0.18	47,61,66,84	0
23	CLA	C	507	65/65	0.93	0.13	55,72,130,146	0
35	DGD	c	518	62/66	0.93	0.12	49,68,101,134	0
23	CLA	B	609	65/65	0.94	0.16	45,60,74,84	0
34	HTG	B	624	19/19	0.94	0.10	63,74,94,99	0
35	DGD	C	518[A]	62/66	0.94	0.12	48,64,116,123	62
35	DGD	C	518[B]	62/66	0.94	0.12	48,64,116,123	62
35	DGD	C	519	62/66	0.94	0.11	44,57,96,110	0
35	DGD	H	102	62/66	0.94	0.12	46,62,73,86	0
23	CLA	C	509	65/65	0.94	0.11	47,56,124,144	0
23	CLA	a	408	65/65	0.94	0.17	44,57,138,151	0
23	CLA	c	506	65/65	0.94	0.12	53,68,128,140	0
25	BCR	D	404	40/40	0.94	0.10	43,60,102,103	0
25	BCR	k	101	40/40	0.94	0.14	59,75,84,90	0
36	CA	O	301	1/1	0.94	0.06	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
26	SQD	A	410[A]	54/54	0.94	0.13	57,79,113,119	54
26	SQD	A	410[B]	54/54	0.94	0.13	57,79,113,119	54
27	GOL	C	523[A]	6/6	0.95	0.15	56,60,66,68	6
27	GOL	C	523[B]	6/6	0.95	0.15	56,60,66,68	6
25	BCR	C	516	40/40	0.95	0.14	50,65,76,88	0
23	CLA	a	406[B]	65/65	0.95	0.11	41,53,126,135	65
23	CLA	c	508	65/65	0.95	0.12	46,63,127,152	0
23	CLA	B	611	65/65	0.95	0.10	34,45,67,74	0
25	BCR	b	618	40/40	0.95	0.09	44,55,79,87	0
23	CLA	A	408	65/65	0.95	0.12	40,53,130,150	0
32	LHG	d	407[A]	49/49	0.95	0.14	51,62,114,129	49
32	LHG	d	407[B]	49/49	0.95	0.14	51,62,114,129	49
23	CLA	D	403	65/65	0.95	0.13	49,59,124,135	0
36	CA	C	524	1/1	0.95	0.05	79,79,79,79	0
25	BCR	A	409	40/40	0.95	0.10	40,52,64,67	0
25	BCR	B	618	40/40	0.95	0.09	40,53,68,77	0
25	BCR	y	101	40/40	0.95	0.09	59,71,90,101	0
23	CLA	a	406[A]	65/65	0.95	0.11	41,53,126,135	65
25	BCR	b	617	40/40	0.96	0.08	44,54,64,74	0
23	CLA	C	512	65/65	0.96	0.12	52,65,81,86	0
23	CLA	c	507	65/65	0.96	0.10	54,69,86,91	0
25	BCR	c	515	40/40	0.96	0.12	54,66,82,89	0
23	CLA	C	502	65/65	0.96	0.09	50,62,71,80	0
23	CLA	c	511	65/65	0.96	0.10	57,69,86,101	0
23	CLA	C	508	65/65	0.96	0.12	53,65,84,98	0
25	BCR	t	102	40/40	0.96	0.07	39,58,76,84	0
23	CLA	C	505	65/65	0.96	0.10	40,56,105,126	0
23	CLA	b	609	65/65	0.96	0.15	49,67,83,94	0
23	CLA	b	612	65/65	0.96	0.10	42,54,65,76	0
23	CLA	b	614	65/65	0.96	0.09	39,52,99,113	0
27	GOL	c	525[A]	6/6	0.96	0.35	65,69,73,75	6
27	GOL	c	525[B]	6/6	0.96	0.35	65,69,73,75	6
32	LHG	A	419[A]	49/49	0.96	0.11	48,62,84,89	49
32	LHG	A	419[B]	49/49	0.96	0.11	48,63,84,89	49
32	LHG	D	407[A]	49/49	0.96	0.14	48,59,109,112	49
32	LHG	D	407[B]	49/49	0.96	0.14	48,59,109,112	49
25	BCR	B	619	40/40	0.96	0.08	49,60,93,99	0
23	CLA	C	510	65/65	0.96	0.11	48,58,84,92	0
26	SQD	a	410[A]	54/54	0.96	0.12	56,82,117,123	54
26	SQD	a	410[B]	54/54	0.96	0.12	56,81,117,123	54
32	LHG	b	629[A]	49/49	0.96	0.13	47,57,73,92	49
32	LHG	b	629[B]	49/49	0.96	0.13	47,57,73,92	49

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
35	DGD	c	516[A]	62/66	0.96	0.11	50,65,104,113	62
35	DGD	c	516[B]	62/66	0.96	0.11	49,65,104,113	62
32	LHG	d	406[A]	49/49	0.96	0.14	47,54,65,77	49
32	LHG	d	406[B]	49/49	0.96	0.14	48,54,65,77	49
23	CLA	c	501	65/65	0.96	0.11	52,69,82,95	0
23	CLA	c	503	65/65	0.96	0.09	50,71,86,89	0
32	LHG	d	413[A]	49/49	0.96	0.13	49,66,77,87	49
32	LHG	d	413[B]	49/49	0.96	0.13	49,66,77,87	49
25	BCR	H	101	40/40	0.96	0.10	50,68,80,90	0
23	CLA	c	504	65/65	0.96	0.10	50,64,109,136	0
23	CLA	c	505	65/65	0.96	0.10	51,65,93,96	0
38	HEM	f	101	43/43	0.96	0.14	59,85,115,142	0
23	CLA	A	404[B]	65/65	0.97	0.11	36,42,60,68	65
23	CLA	a	404[A]	65/65	0.97	0.12	34,45,61,72	65
23	CLA	a	404[B]	65/65	0.97	0.12	38,46,61,72	65
23	CLA	B	602	65/65	0.97	0.11	47,58,75,88	0
23	CLA	c	509	65/65	0.97	0.10	45,61,87,94	0
23	CLA	c	510	65/65	0.97	0.09	49,62,79,95	0
23	CLA	C	504	65/65	0.97	0.08	48,62,74,82	0
23	CLA	B	603	65/65	0.97	0.10	42,53,72,83	0
23	CLA	C	506	65/65	0.97	0.09	50,61,96,107	0
23	CLA	b	602	65/65	0.97	0.13	49,62,83,93	0
29	PL9	D	405[A]	55/55	0.97	0.10	37,47,58,65	55
29	PL9	D	405[B]	55/55	0.97	0.10	37,47,57,66	55
24	PHO	a	415[A]	64/64	0.97	0.11	45,55,62,70	64
24	PHO	a	415[B]	64/64	0.97	0.11	45,55,62,70	64
29	PL9	d	405[A]	55/55	0.97	0.10	38,50,60,73	55
29	PL9	d	405[B]	55/55	0.97	0.10	37,50,60,73	55
23	CLA	b	604	65/65	0.97	0.12	40,53,99,121	0
25	BCR	B	617	40/40	0.97	0.09	39,52,62,68	0
23	CLA	b	605	65/65	0.97	0.11	38,52,75,82	0
35	DGD	C	517[A]	62/66	0.97	0.10	47,58,100,109	62
35	DGD	C	517[B]	62/66	0.97	0.10	46,58,100,109	62
23	CLA	B	605	65/65	0.97	0.11	42,49,65,83	0
23	CLA	b	607	65/65	0.97	0.08	37,46,83,89	0
23	CLA	A	406[A]	65/65	0.97	0.08	38,47,111,122	65
23	CLA	b	610	65/65	0.97	0.08	48,59,71,73	0
23	CLA	b	611	65/65	0.97	0.08	39,48,72,79	0
23	CLA	A	406[B]	65/65	0.97	0.08	38,47,111,122	65
25	BCR	T	101	40/40	0.97	0.07	45,59,73,74	0
23	CLA	B	610	65/65	0.97	0.12	40,54,67,83	0
25	BCR	a	409	40/40	0.97	0.07	45,55,65,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
23	CLA	b	615	65/65	0.97	0.10	50,63,83,91	0
23	CLA	C	511	65/65	0.97	0.08	46,59,78,92	0
25	BCR	b	619	40/40	0.97	0.08	50,62,88,95	0
23	CLA	A	404[A]	65/65	0.97	0.11	37,41,59,68	65
27	GOL	b	628	6/6	0.97	0.18	75,83,88,89	0
23	CLA	B	612	65/65	0.97	0.07	36,48,63,70	0
38	HEM	F	102	43/43	0.97	0.11	55,70,84,94	0
23	CLA	B	614	65/65	0.97	0.09	38,50,108,122	0
39	MG	j	102	1/1	0.97	0.03	63,63,63,63	0
40	HEC	V	201	43/43	0.97	0.13	39,50,57,61	0
40	HEC	v	201	43/43	0.97	0.11	51,62,70,75	0
23	CLA	B	615	65/65	0.98	0.10	45,55,79,92	0
32	LHG	L	101[A]	49/49	0.98	0.10	47,55,69,88	49
32	LHG	L	101[B]	49/49	0.98	0.10	47,55,69,88	49
23	CLA	b	608	65/65	0.98	0.07	45,55,83,89	0
23	CLA	B	604	65/65	0.98	0.08	38,47,106,132	0
23	CLA	a	405[A]	65/65	0.98	0.07	38,44,63,71	65
27	GOL	B	623	6/6	0.98	0.23	67,74,84,86	0
23	CLA	a	405[B]	65/65	0.98	0.07	38,44,64,71	65
23	CLA	A	405[A]	65/65	0.98	0.08	34,42,57,74	65
23	CLA	b	613	65/65	0.98	0.07	41,49,90,102	0
23	CLA	d	402[A]	65/65	0.98	0.10	36,45,72,93	65
23	CLA	d	402[B]	65/65	0.98	0.10	36,45,72,93	65
23	CLA	C	503	65/65	0.98	0.08	44,54,82,93	0
24	PHO	A	407[A]	64/64	0.98	0.08	38,44,52,57	64
24	PHO	A	407[B]	64/64	0.98	0.08	38,44,51,57	64
24	PHO	A	416[A]	64/64	0.98	0.10	37,49,54,61	64
24	PHO	A	416[B]	64/64	0.98	0.10	37,49,54,61	64
24	PHO	a	407[A]	64/64	0.98	0.07	41,47,53,58	64
24	PHO	a	407[B]	64/64	0.98	0.07	41,47,53,58	64
23	CLA	A	405[B]	65/65	0.98	0.08	34,42,57,74	65
23	CLA	B	607	65/65	0.98	0.09	35,46,73,83	0
23	CLA	B	613	65/65	0.98	0.08	38,45,97,109	0
36	CA	c	523	1/1	0.98	0.09	77,77,77,77	0
23	CLA	c	502	65/65	0.98	0.08	43,59,88,103	0
23	CLA	b	603	65/65	0.98	0.08	46,58,82,98	0
32	LHG	D	406[A]	49/49	0.98	0.12	45,53,66,77	49
32	LHG	D	406[B]	49/49	0.98	0.12	45,53,66,78	49
23	CLA	D	402[A]	65/65	0.98	0.11	33,43,65,73	65
23	CLA	D	402[B]	65/65	0.98	0.11	33,43,65,73	65
23	CLA	B	608	65/65	0.98	0.07	35,49,68,78	0
36	CA	c	522	1/1	0.99	0.06	77,77,77,77	0

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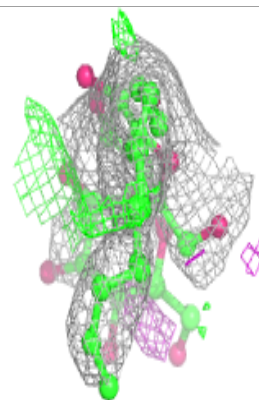
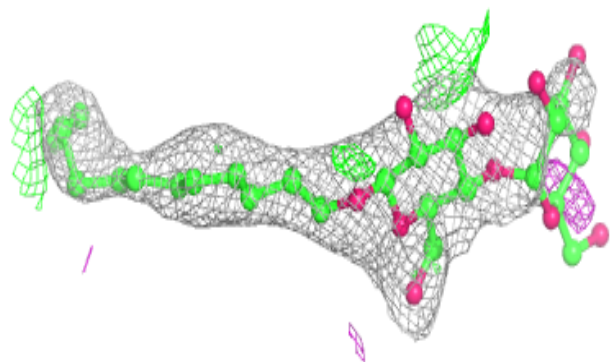
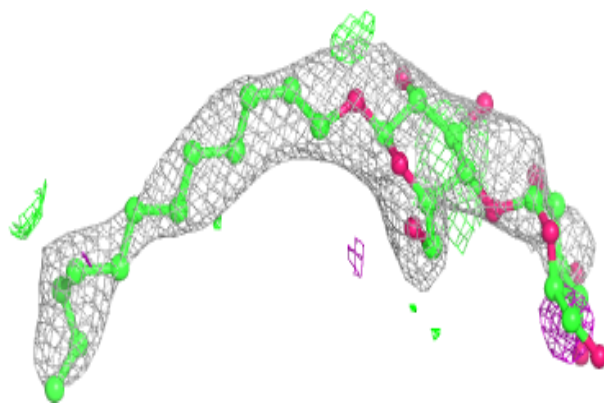
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
28	OEX	A	413[A]	10/10	0.99	0.05	37,44,49,50	10
28	OEX	A	413[B]	10/10	0.99	0.05	37,45,48,50	10
28	OEX	a	412[A]	10/10	0.99	0.05	46,49,53,55	10
37	BCT	D	401[A]	4/4	0.99	0.12	51,52,58,69	4
37	BCT	D	401[B]	4/4	0.99	0.12	51,52,58,70	4
37	BCT	d	401[A]	4/4	0.99	0.06	56,59,66,78	4
37	BCT	d	401[B]	4/4	0.99	0.06	56,59,66,78	4
28	OEX	a	412[B]	10/10	0.99	0.05	46,49,54,55	10
21	FE2	a	401[A]	1/1	0.99	0.05	53,53,53,53	1
39	MG	J	102	1/1	0.99	0.03	58,58,58,58	0
21	FE2	a	401[B]	1/1	0.99	0.05	53,53,53,53	1
22	CL	A	403[A]	1/1	0.99	0.04	46,46,46,46	1
22	CL	A	403[B]	1/1	0.99	0.04	45,45,45,45	1
22	CL	a	403[A]	1/1	1.00	0.03	52,52,52,52	1
22	CL	a	403[B]	1/1	1.00	0.03	52,52,52,52	1
22	CL	A	402[A]	1/1	1.00	0.01	41,41,41,41	1
22	CL	A	402[B]	1/1	1.00	0.01	41,41,41,41	1
21	FE2	A	401[A]	1/1	1.00	0.05	49,49,49,49	1
21	FE2	A	401[B]	1/1	1.00	0.05	49,49,49,49	1
22	CL	a	402[A]	1/1	1.00	0.03	47,47,47,47	1
22	CL	a	402[B]	1/1	1.00	0.03	47,47,47,47	1

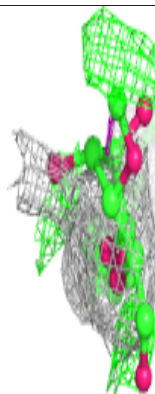
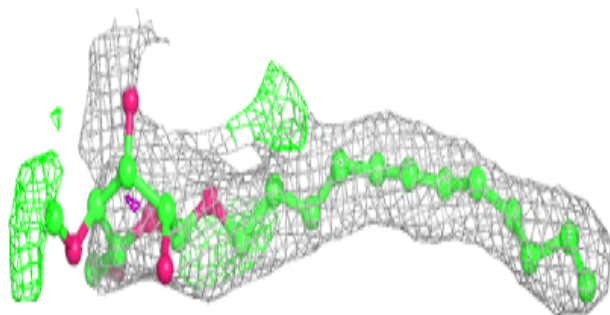
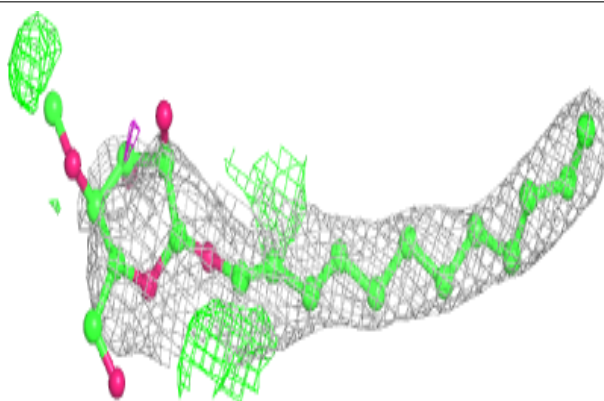
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

**Electron density around LMT M 103:**

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

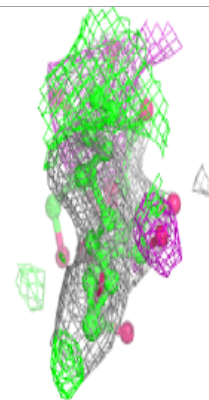
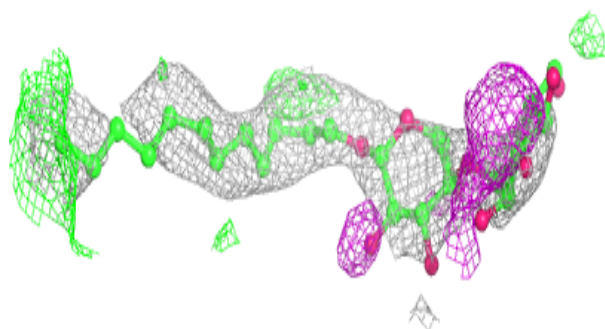
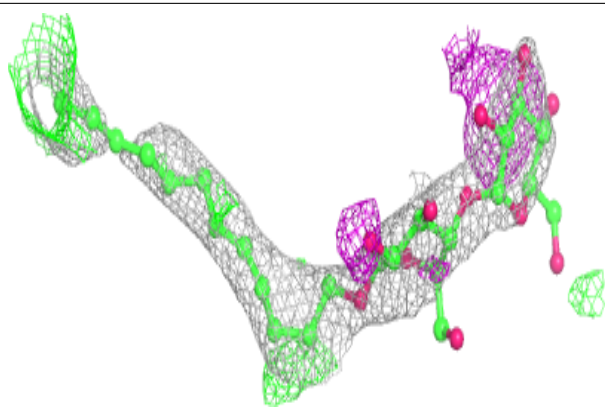
**Electron density around LMT b 621:**

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

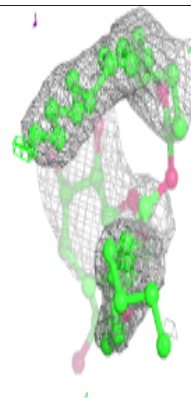
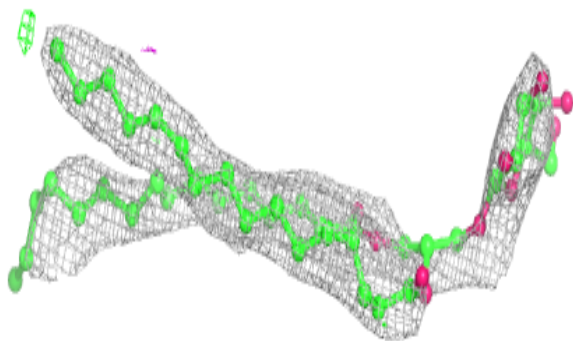
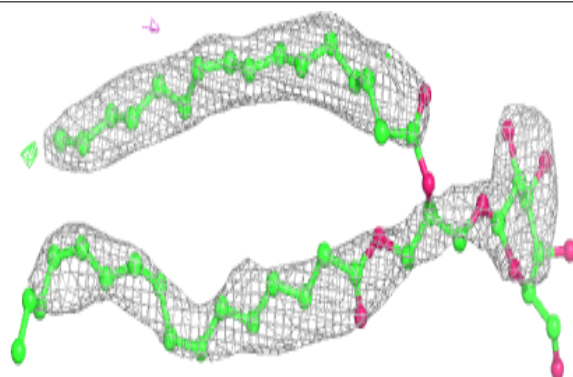


**Electron density around LMT B 629:**

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

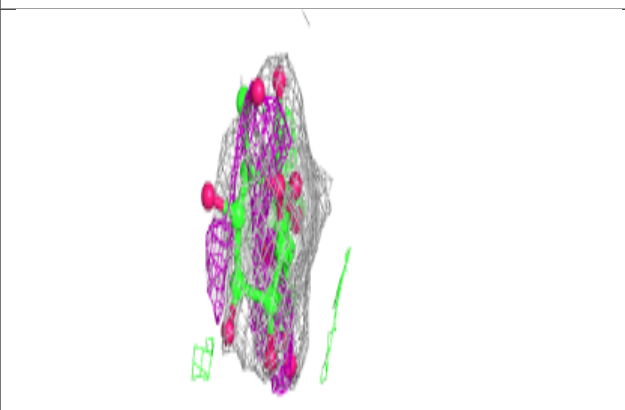
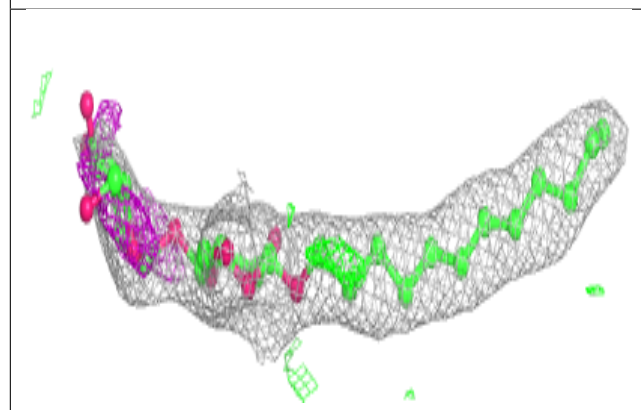
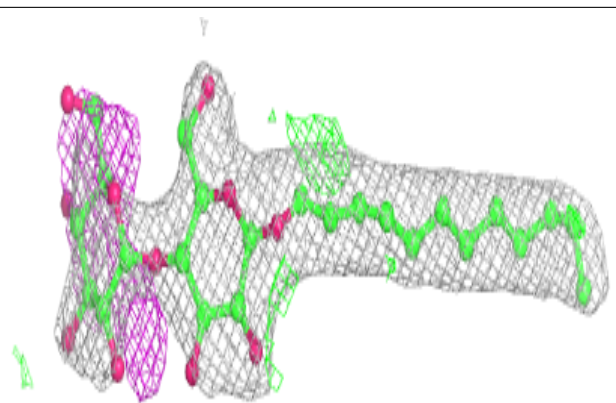
**Electron density around LMG C 521:**

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

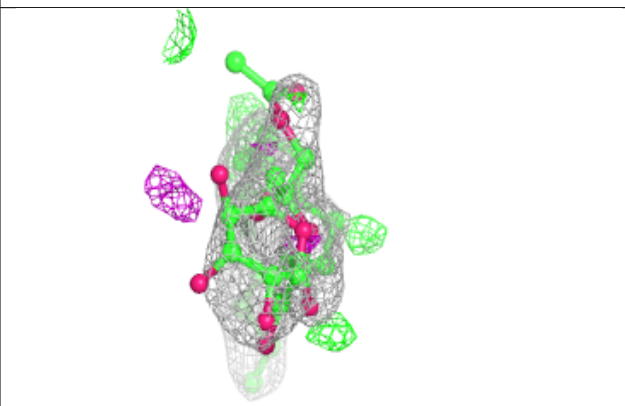
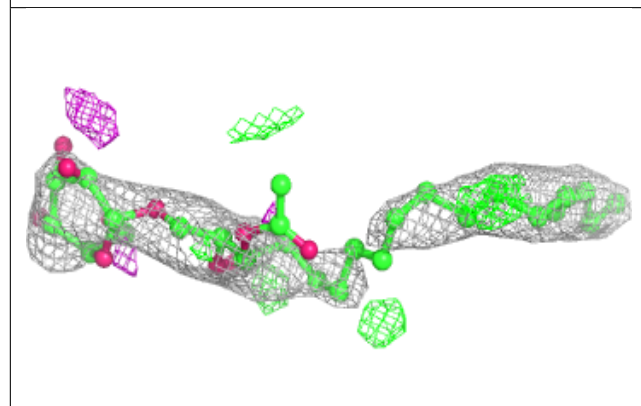
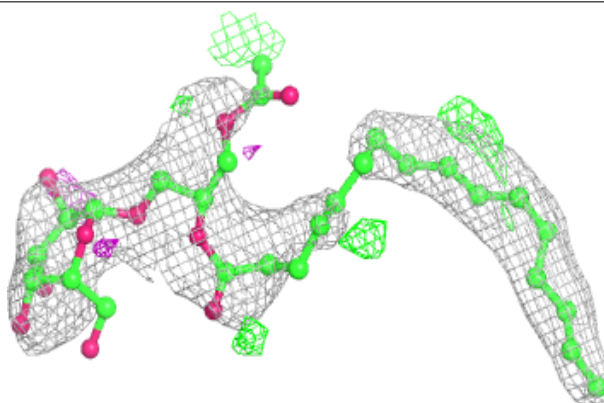


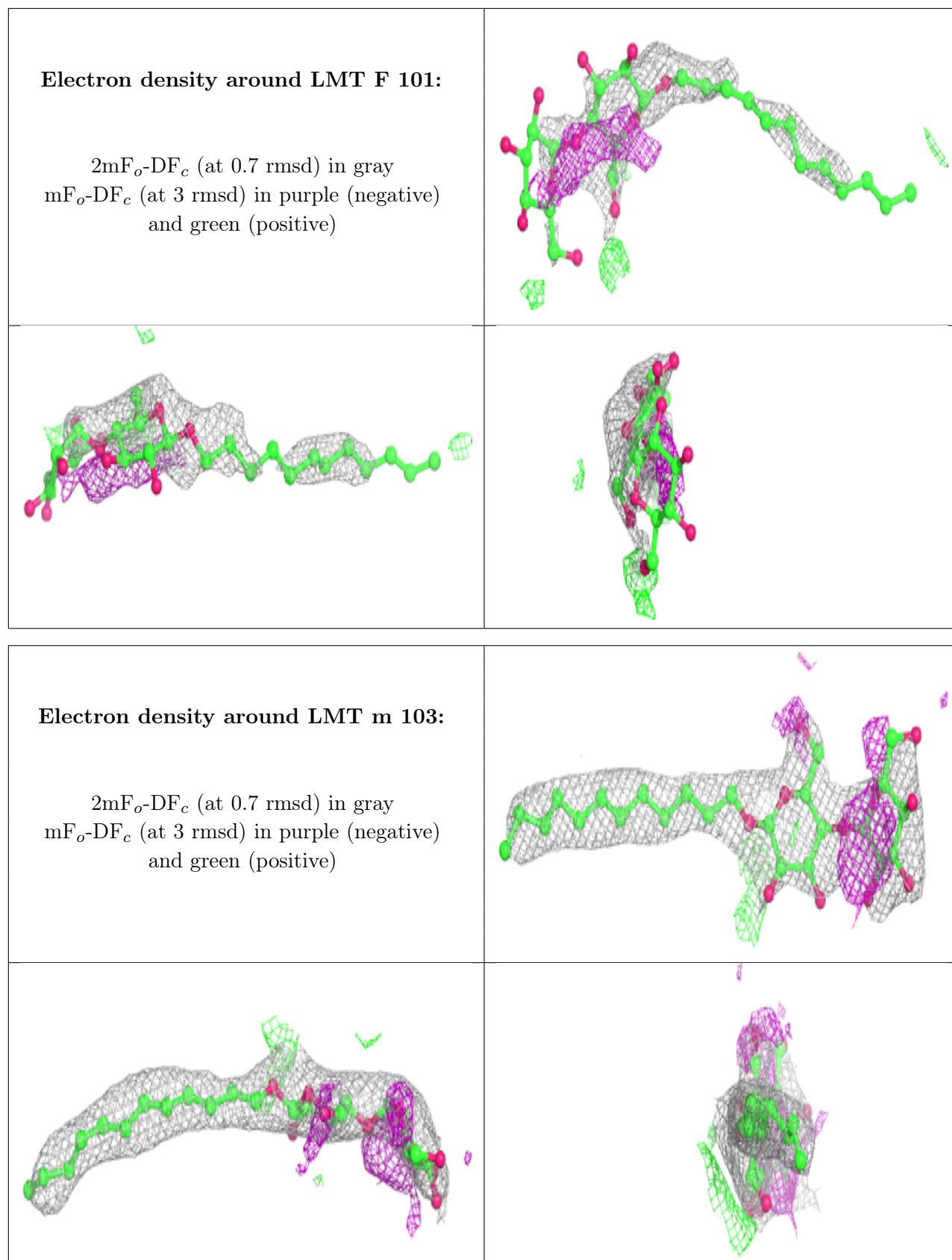
**Electron density around LMT M 101:**

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

**Electron density around LMG Z 101:**

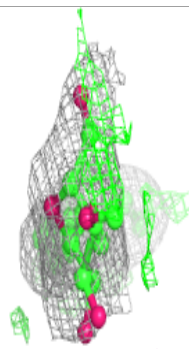
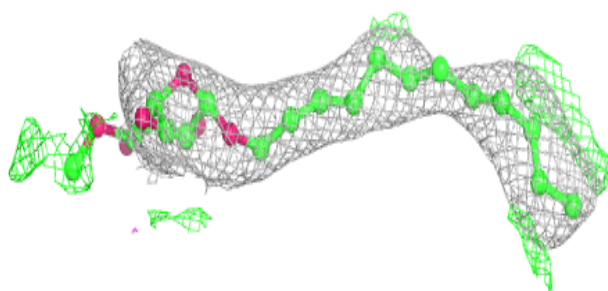
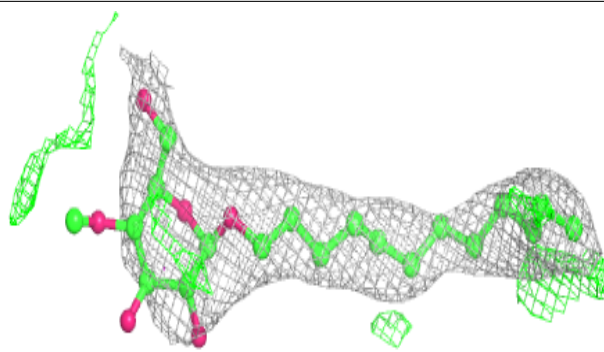
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



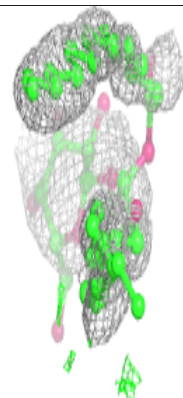
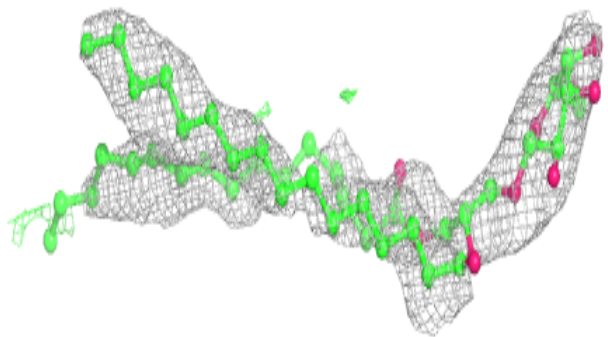
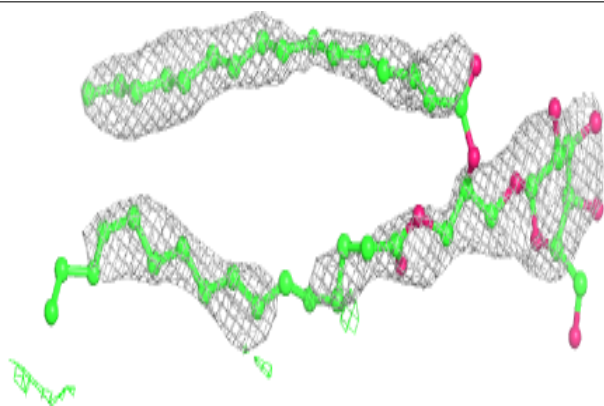


**Electron density around LMT B 631:**

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

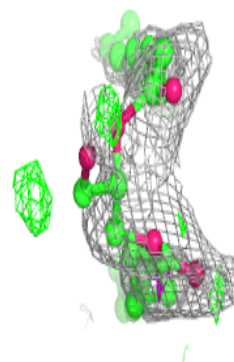
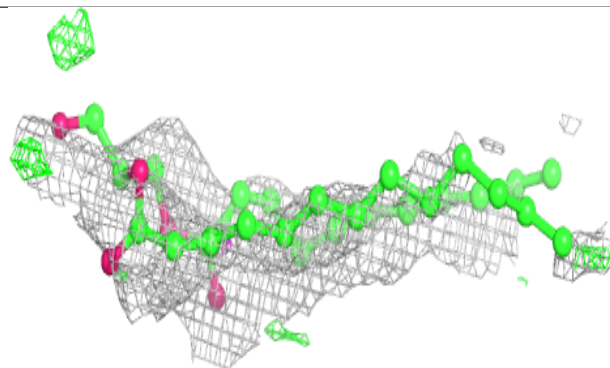
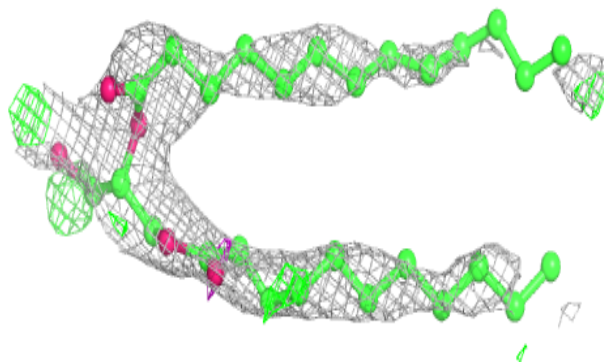
**Electron density around LMG c 520:**

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

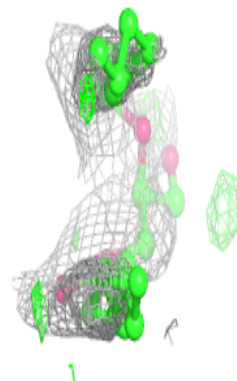
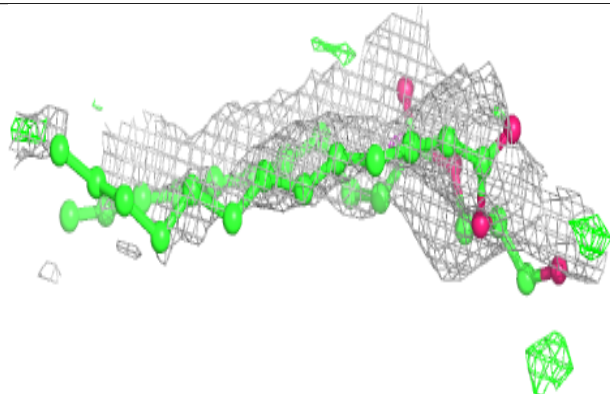
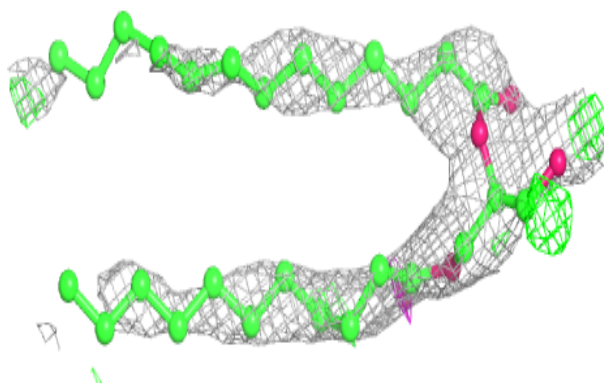


**Electron density around UNL c 524 (A):**

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

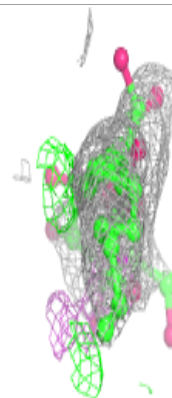
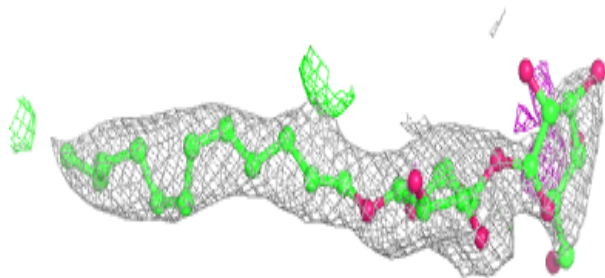
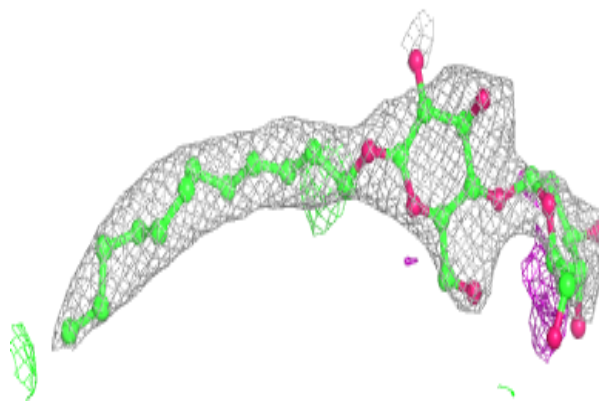
**Electron density around UNL c 524 (B):**

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

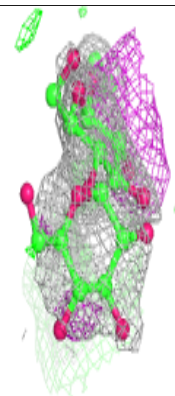
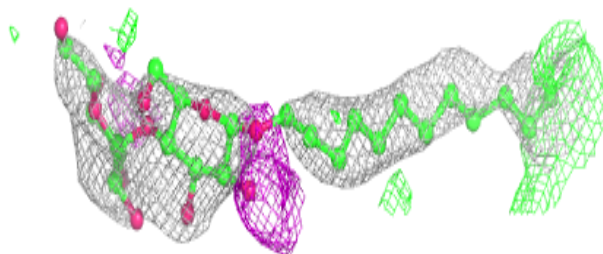
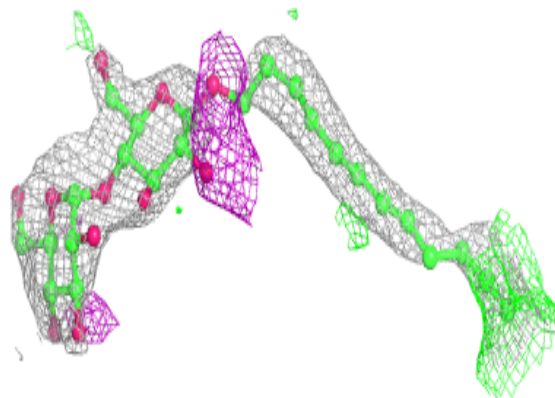


**Electron density around LMT B 627:**

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

**Electron density around LMT A 417:**

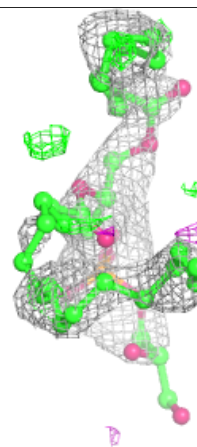
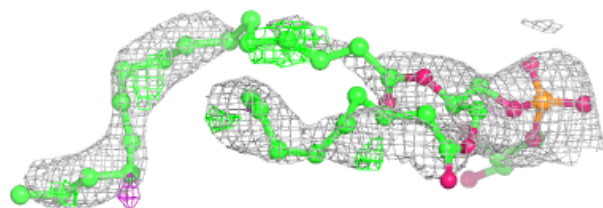
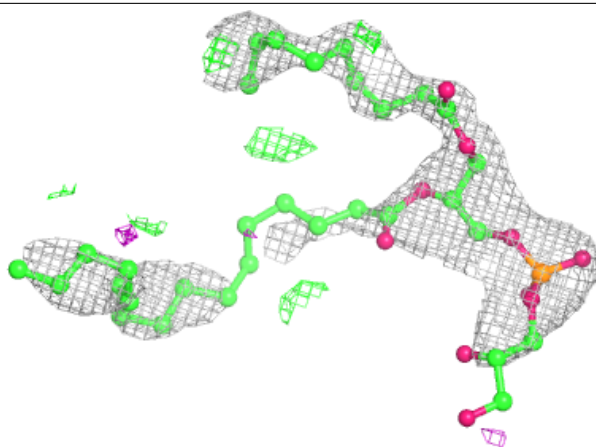
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





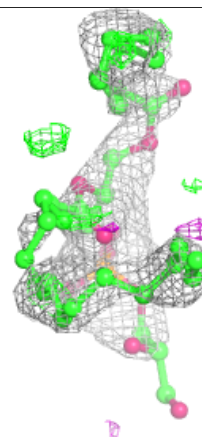
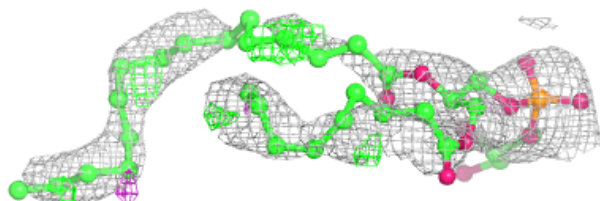
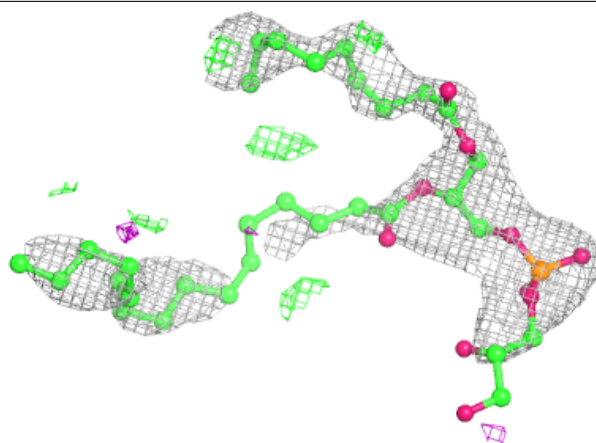
**Electron density around LHG a 420 (A):**

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

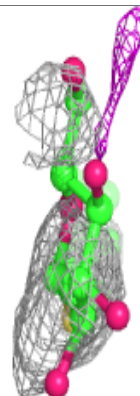
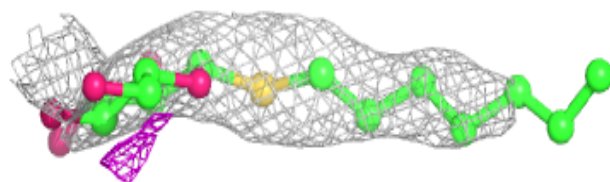
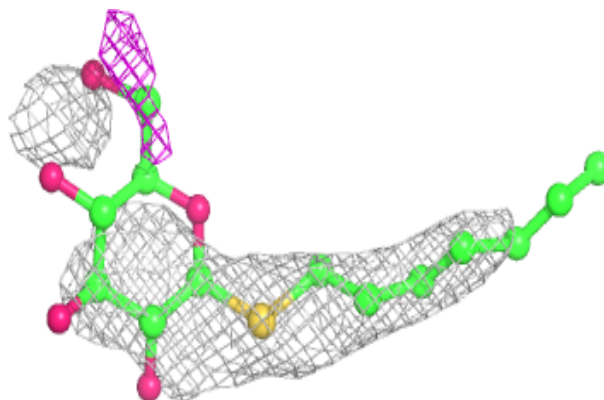


**Electron density around LHG a 420 (B):**

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

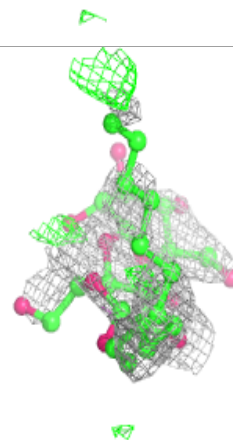
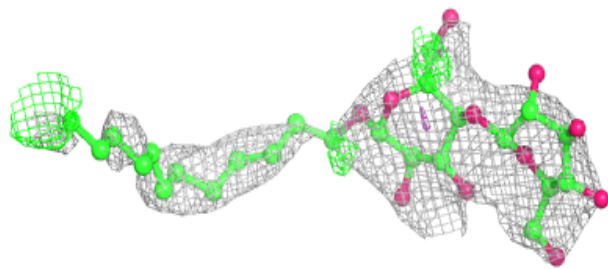
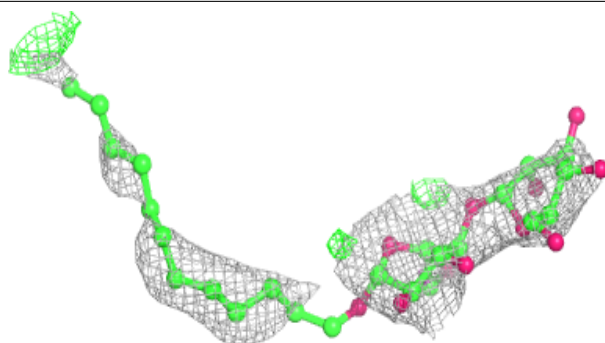
**Electron density around HTG b 623:**

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

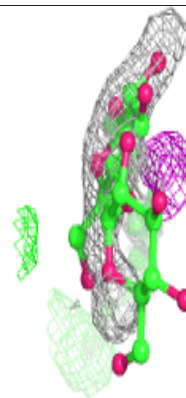
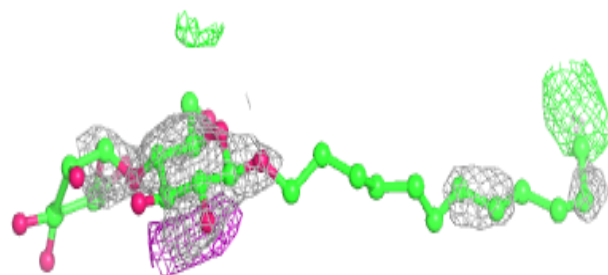
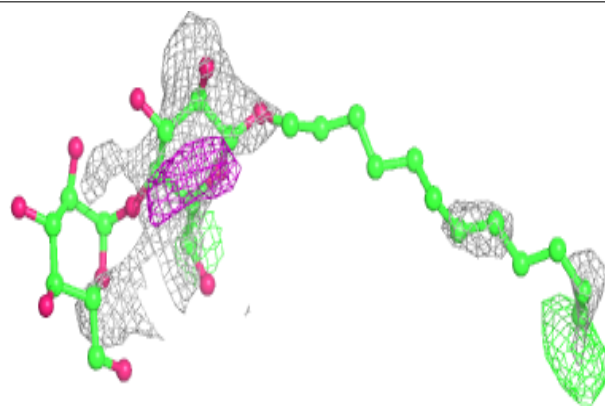


**Electron density around LMT A 420:**

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

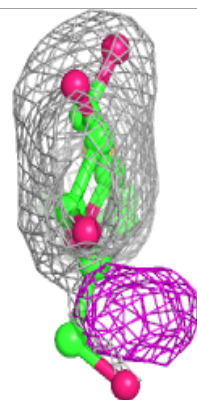
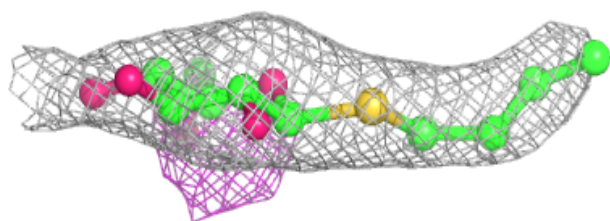
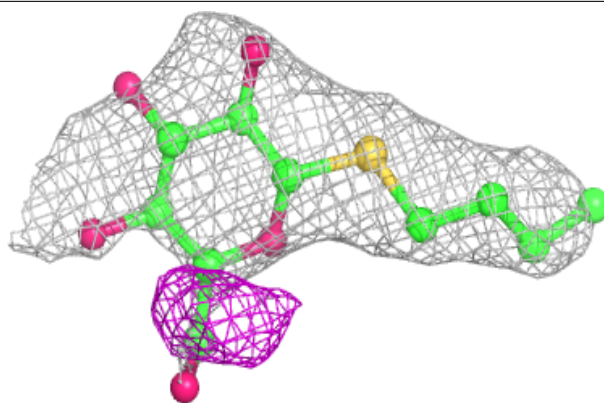
**Electron density around LMT e 101:**

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

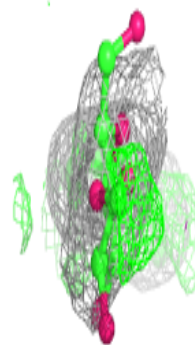
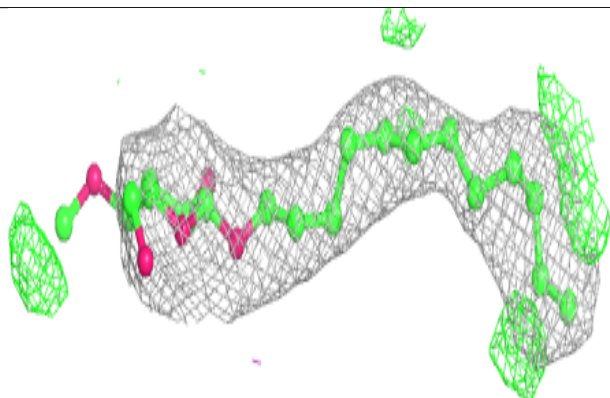
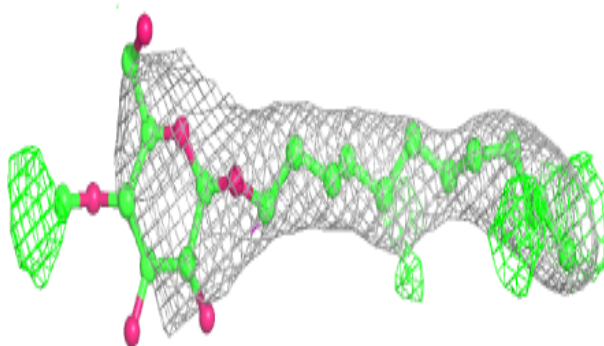


**Electron density around HTG D 410:**

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

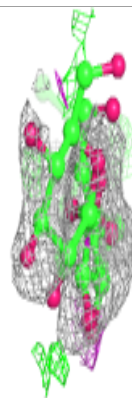
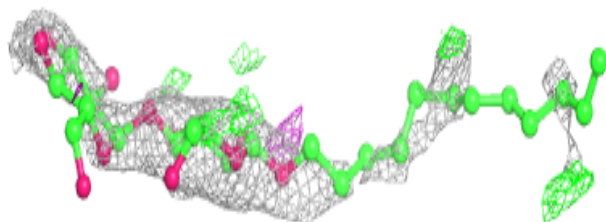
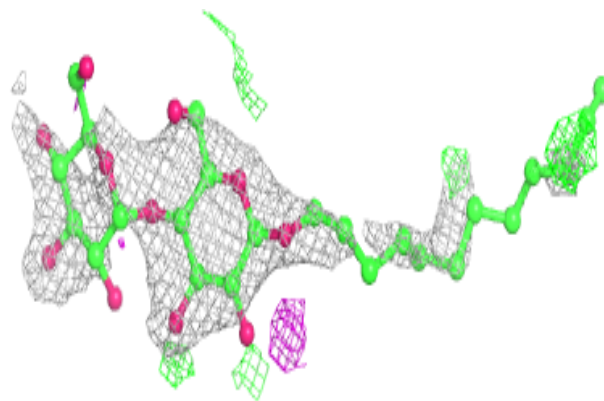
**Electron density around LMT b 627:**

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

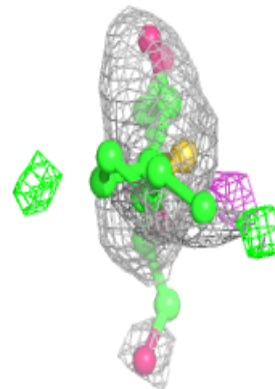
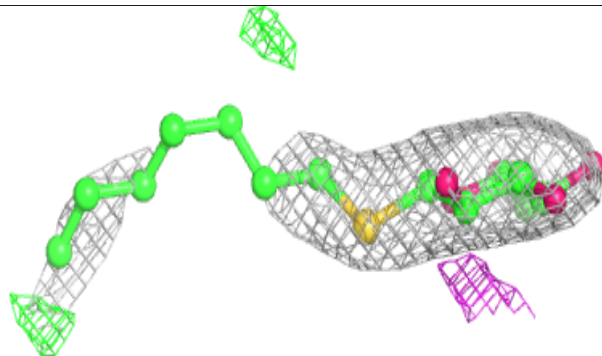
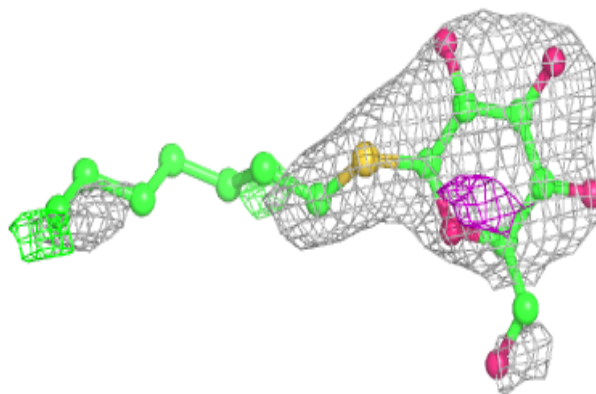


**Electron density around LMT a 417:**

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

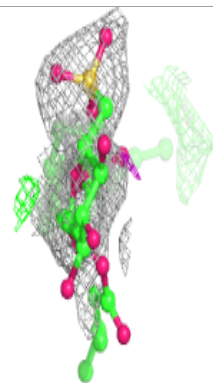
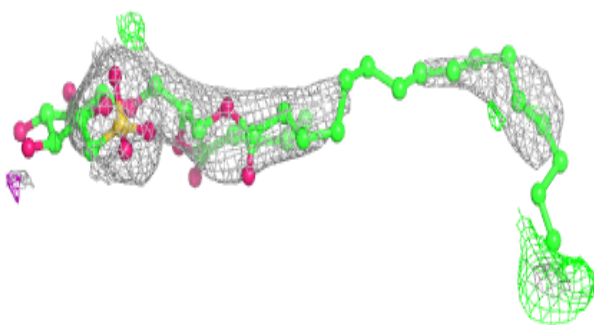
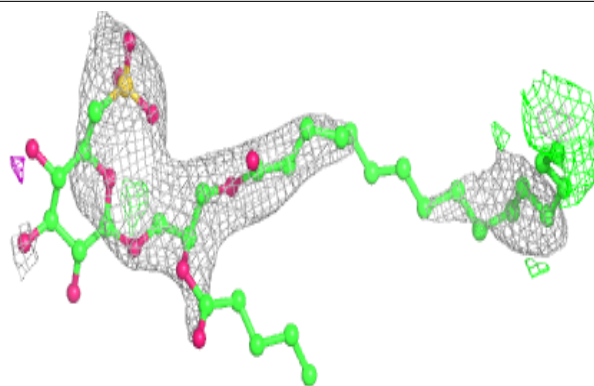
**Electron density around HTG C 522:**

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

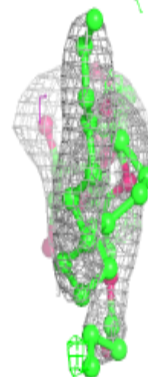
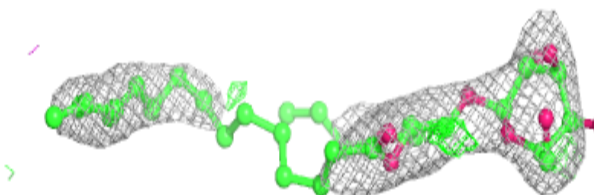
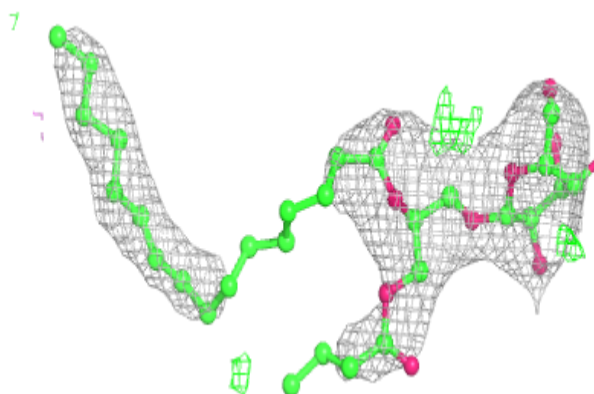


**Electron density around SQD f 102:**

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

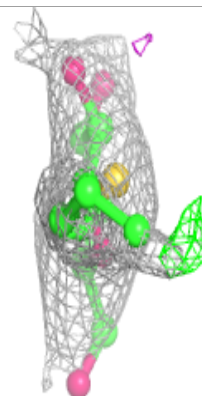
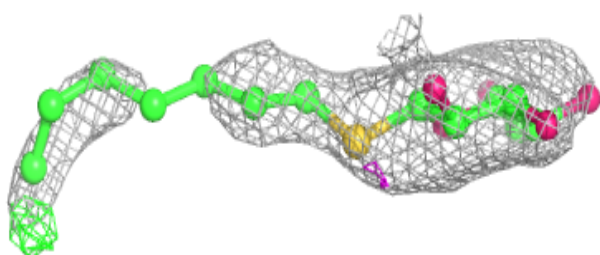
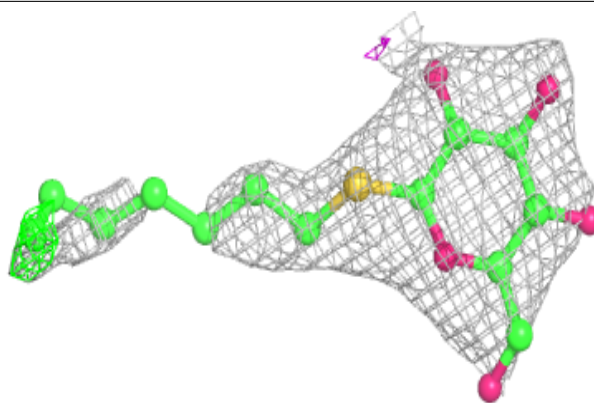
**Electron density around LMG z 101:**

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

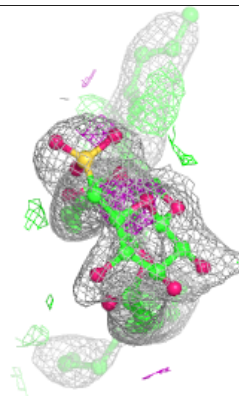
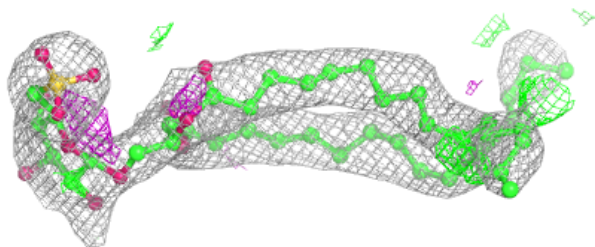
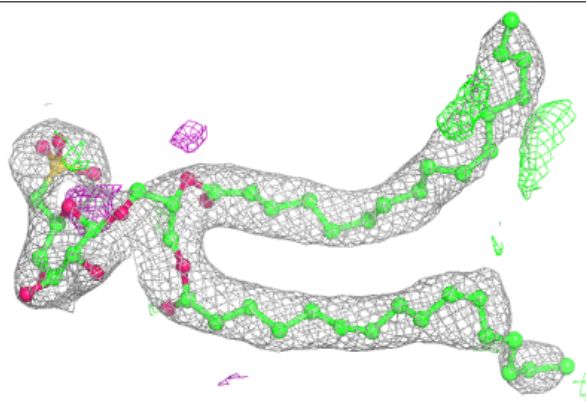


**Electron density around HTG c 521:**

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

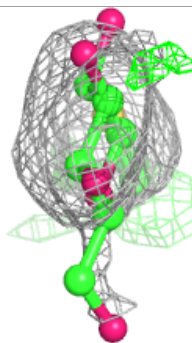
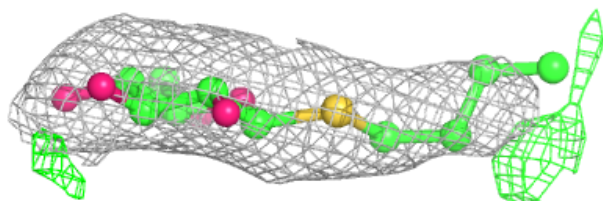
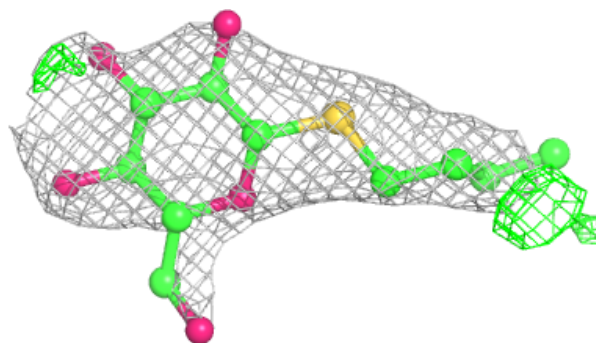
**Electron density around SQD b 620:**

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

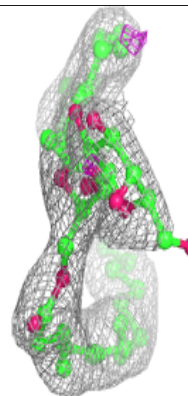
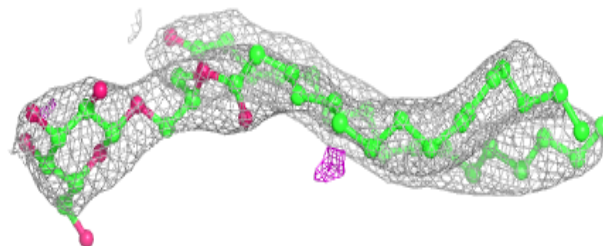
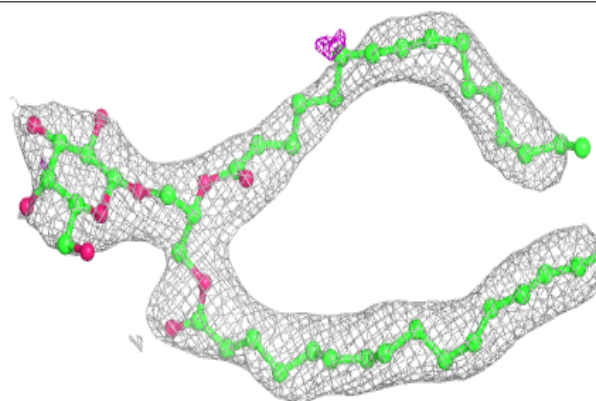


**Electron density around HTG d 410:**

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

**Electron density around LMG a 416:**

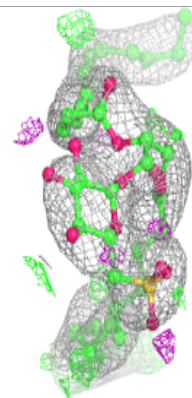
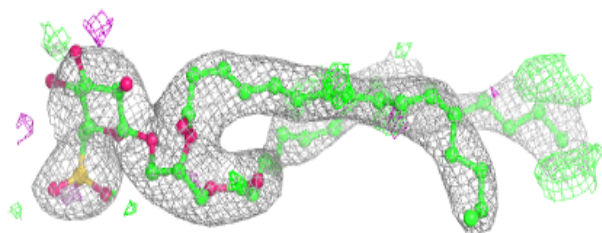
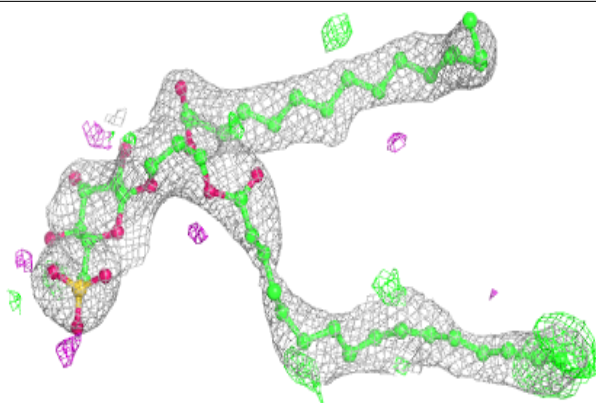
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



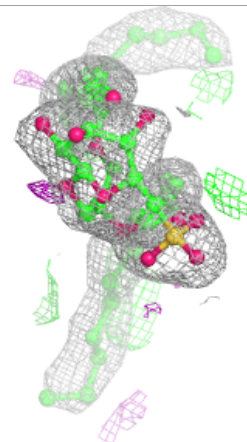
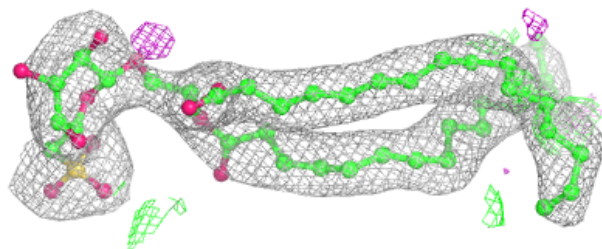
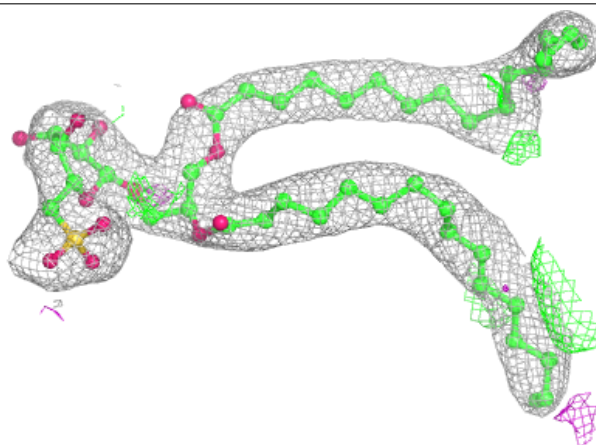


**Electron density around SQD A 412:**

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

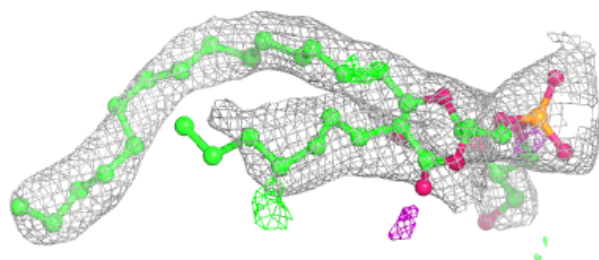
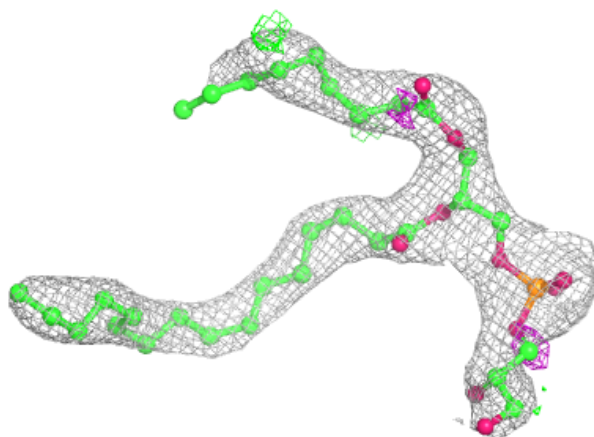
**Electron density around SQD B 620:**

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



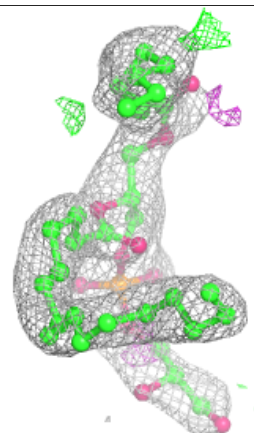
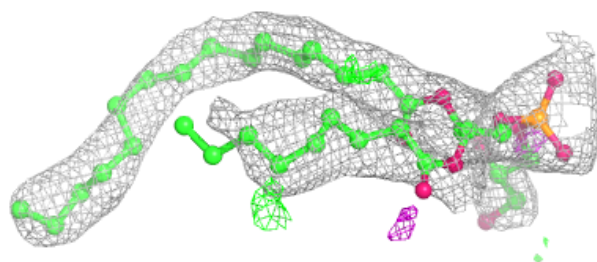
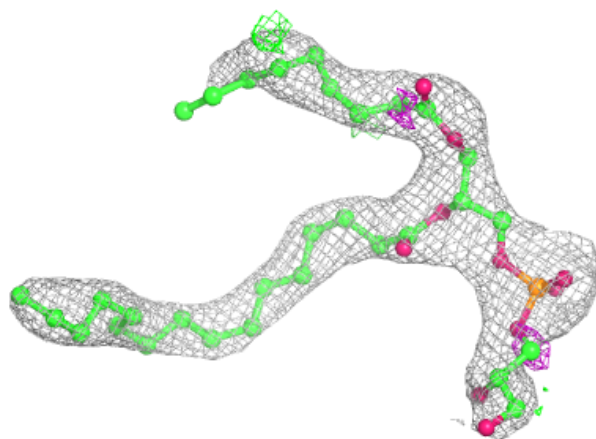
**Electron density around LHG E 101 (A):**

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



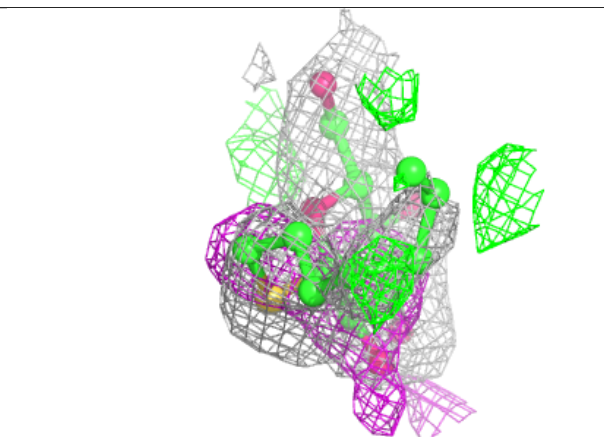
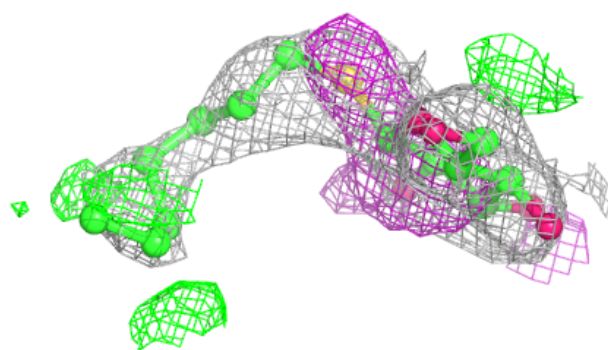
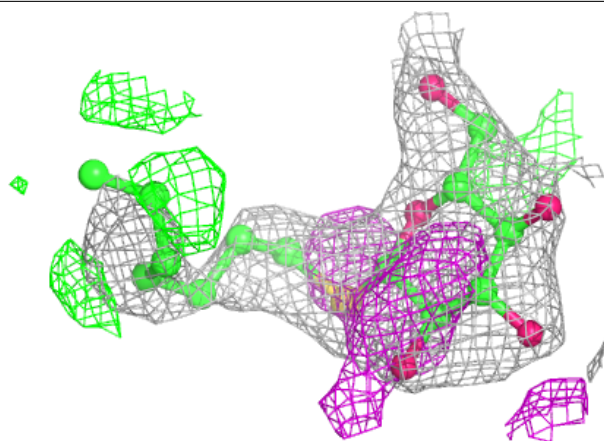
**Electron density around LHG E 101 (B):**

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

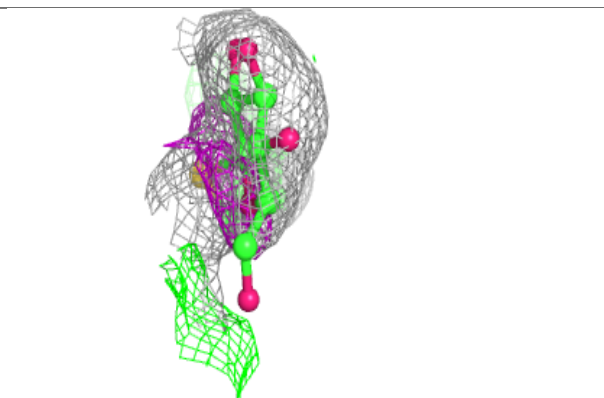
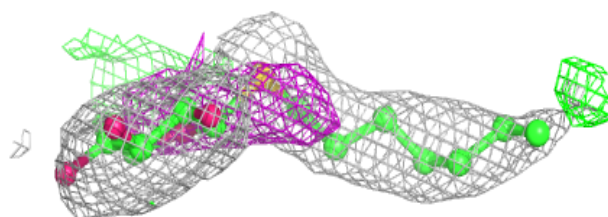
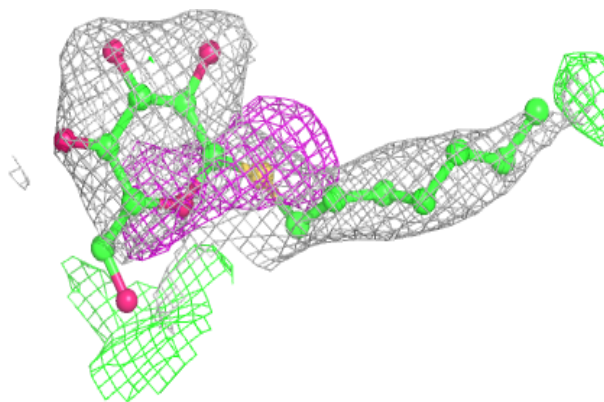


**Electron density around HTG B 622:**

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

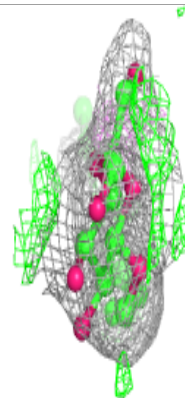
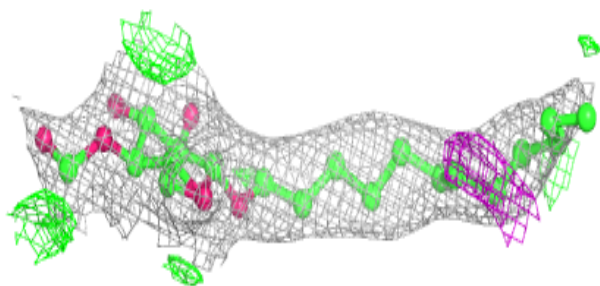
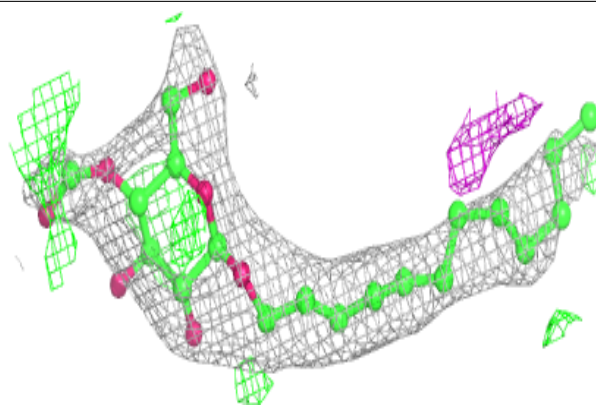
**Electron density around HTG b 622:**

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

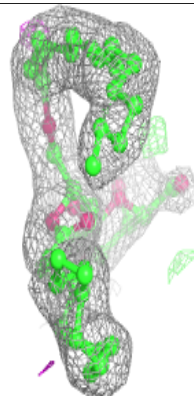
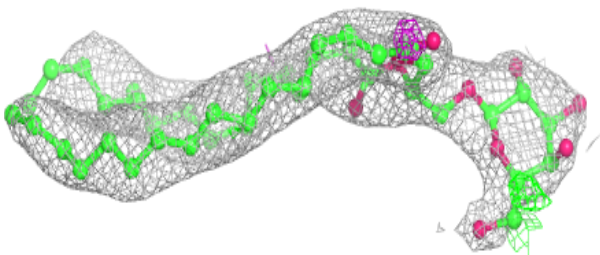
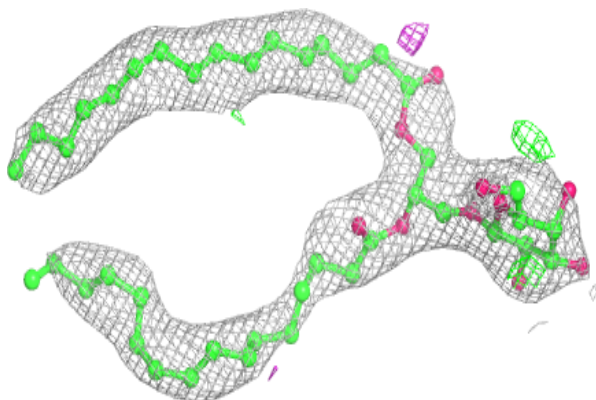


**Electron density around LMT t 101:**

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

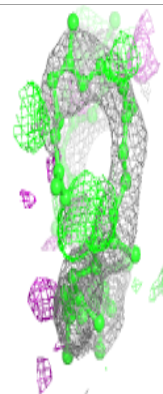
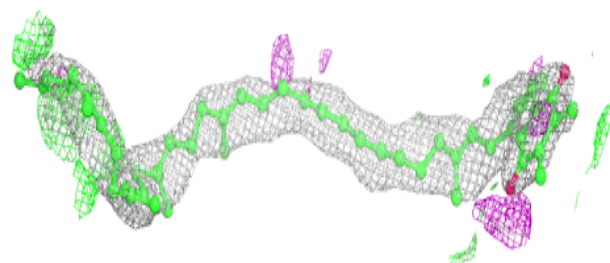
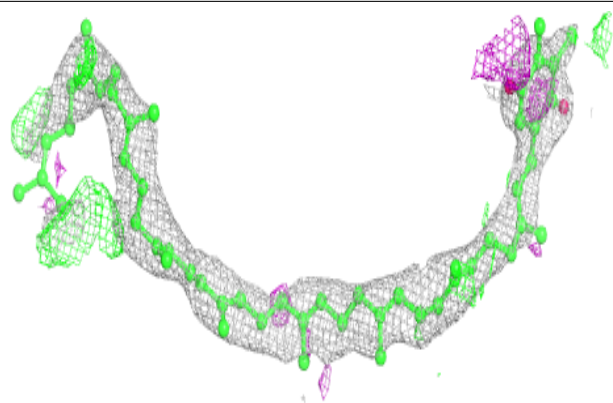
**Electron density around LMG C 501:**

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

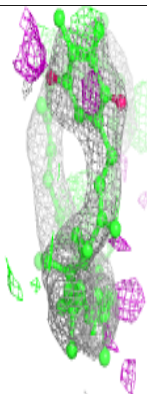
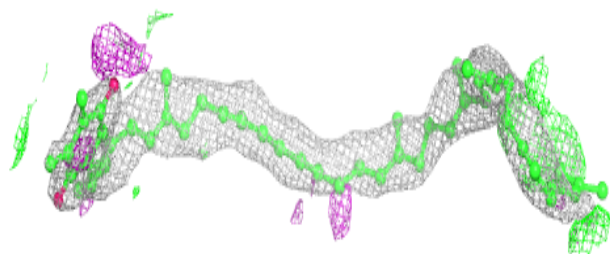
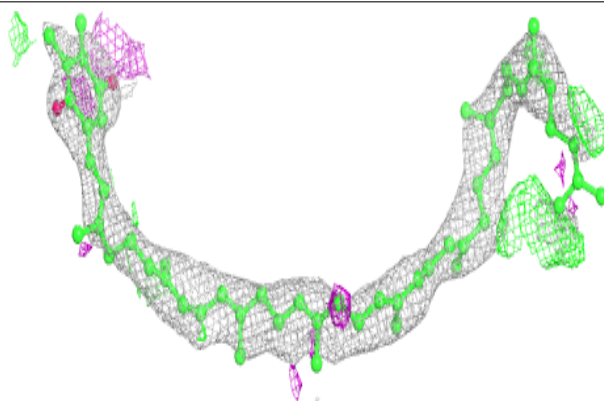


**Electron density around PL9 A 414 (A):**

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

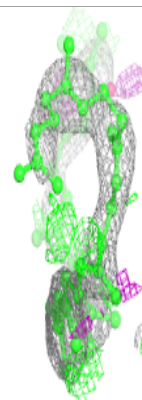
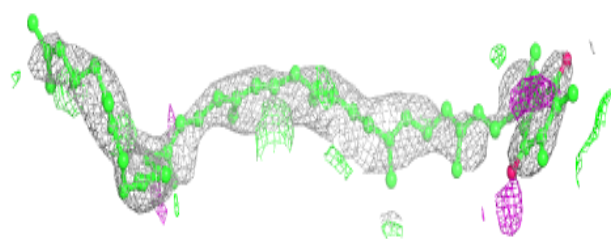
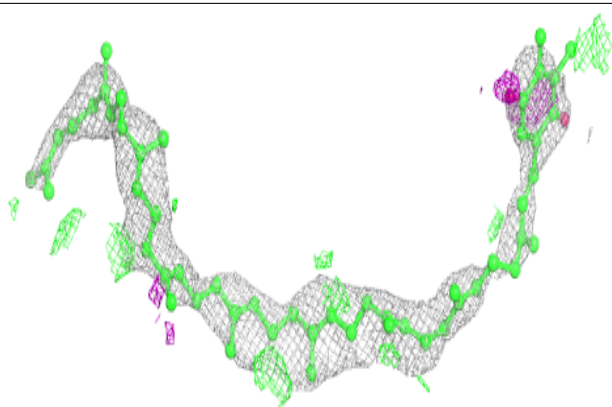
**Electron density around PL9 A 414 (B):**

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

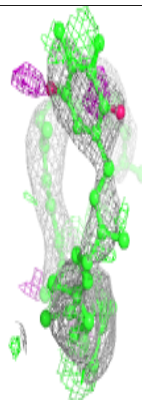
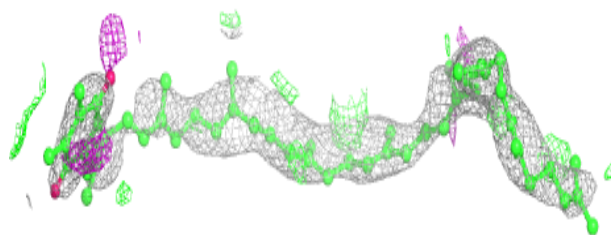
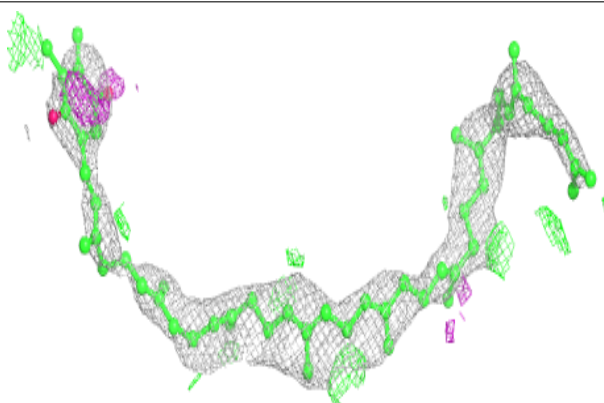


**Electron density around PL9 a 413 (A):**

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

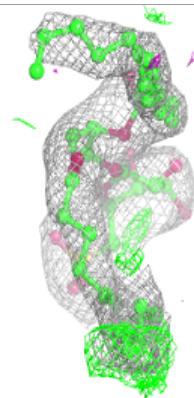
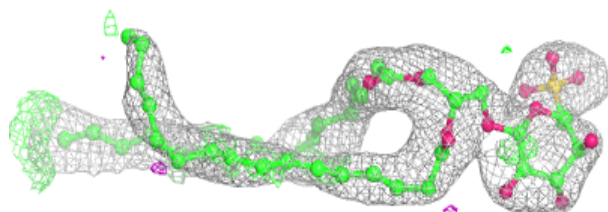
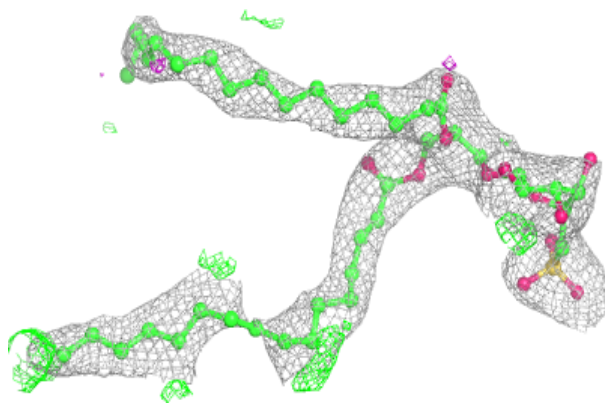
**Electron density around PL9 a 413 (B):**

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

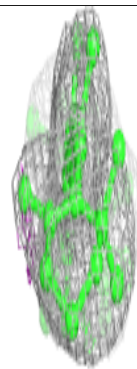
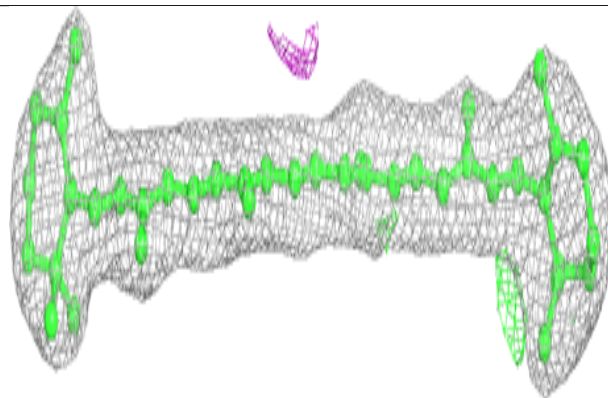
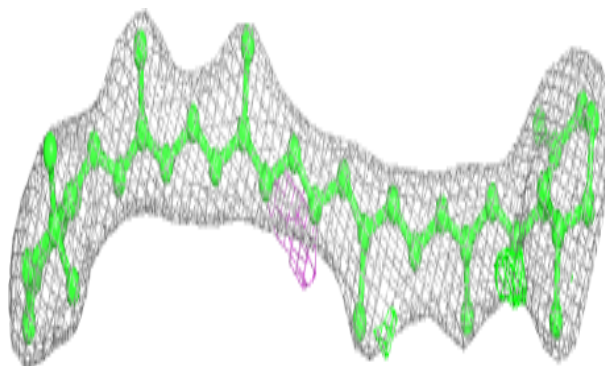


**Electron density around SQD a 411:**

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

**Electron density around BCR C 515:**

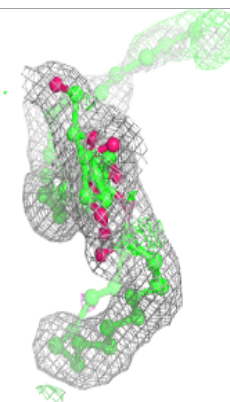
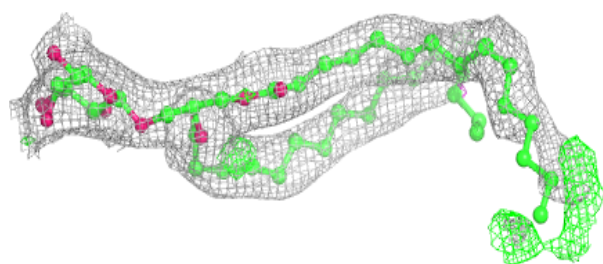
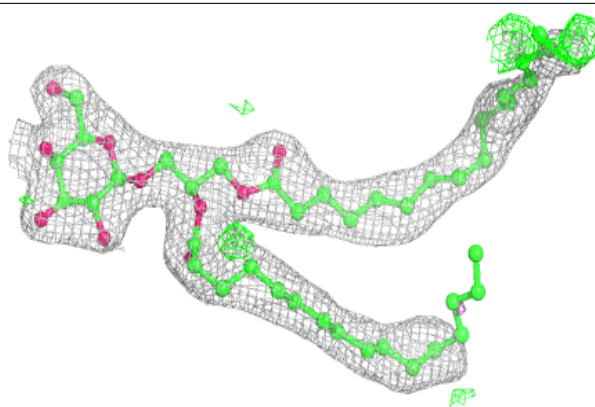
$2mF_o-DF_c$  (at 0.7 rnsd) in gray  
 $mF_o-DF_c$  (at 3 rnsd) in purple (negative)  
and green (positive)



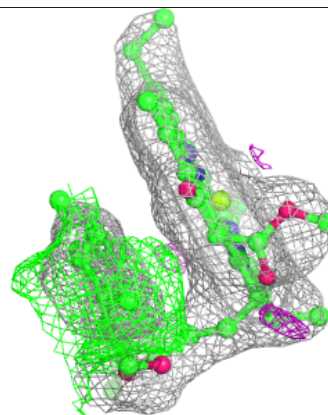
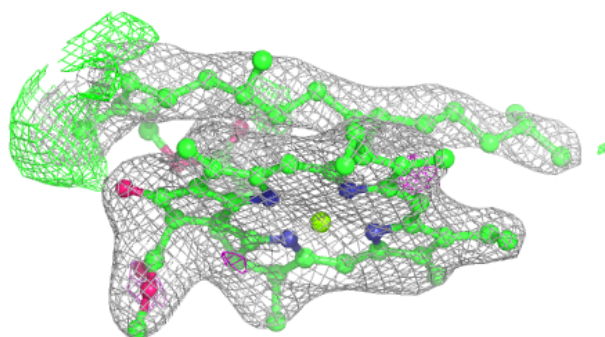
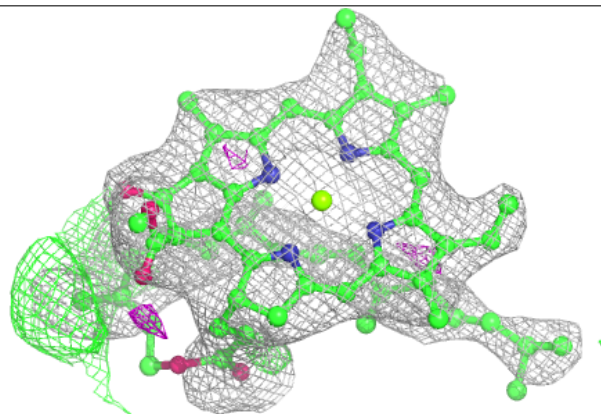


**Electron density around LMG D 411:**

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

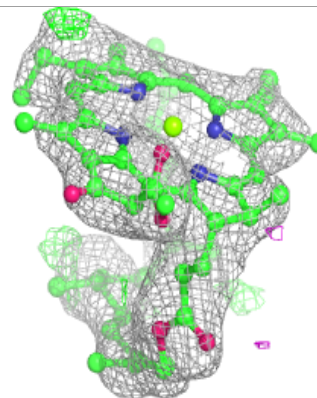
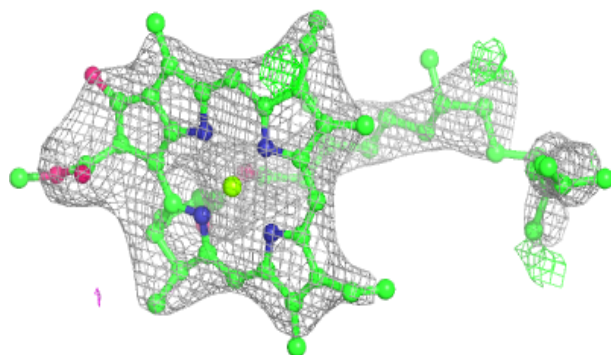
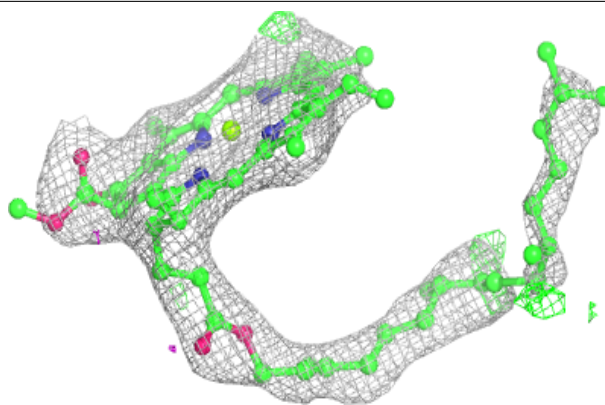
**Electron density around CLA b 601:**

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

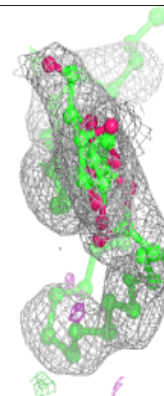
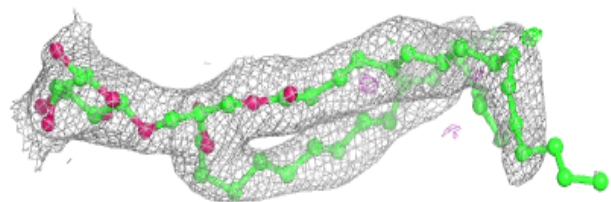
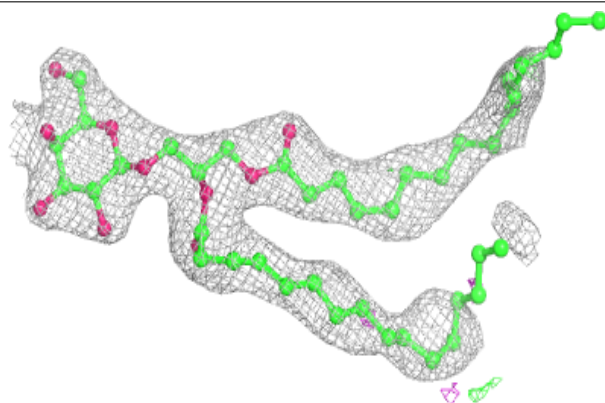


**Electron density around CLA c 513:**

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

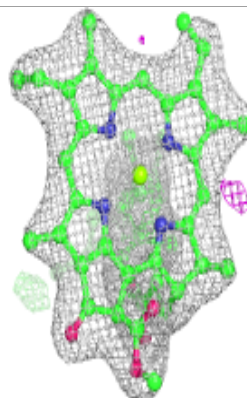
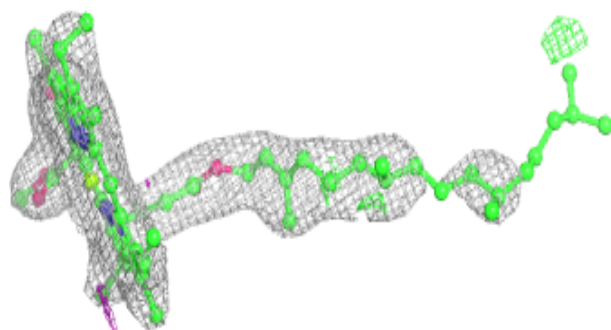
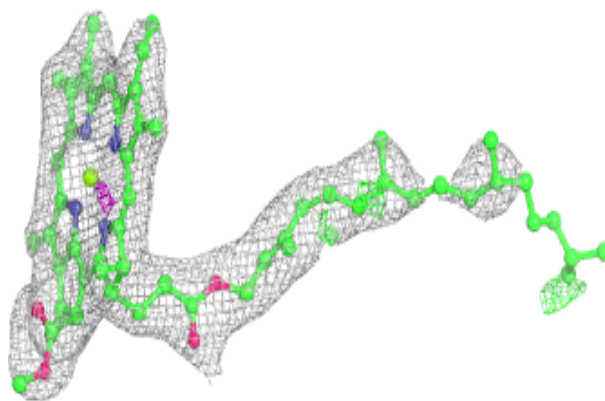
**Electron density around LMG d 411:**

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

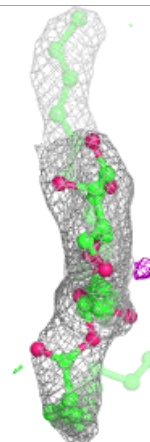
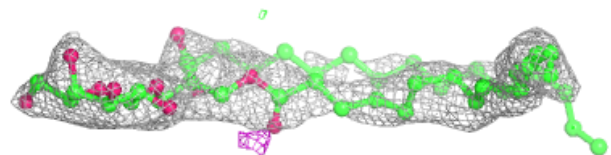
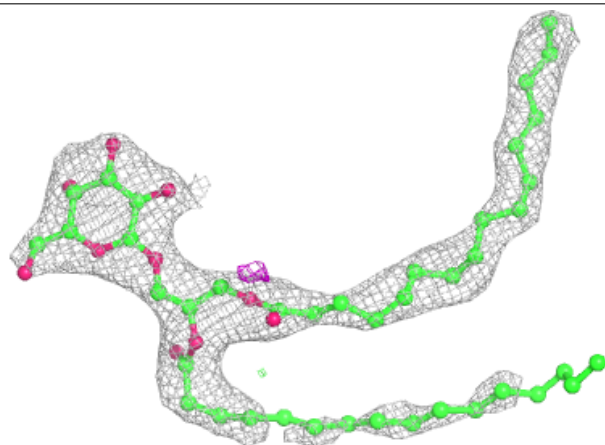


**Electron density around CLA d 403:**

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

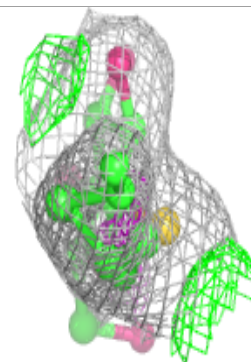
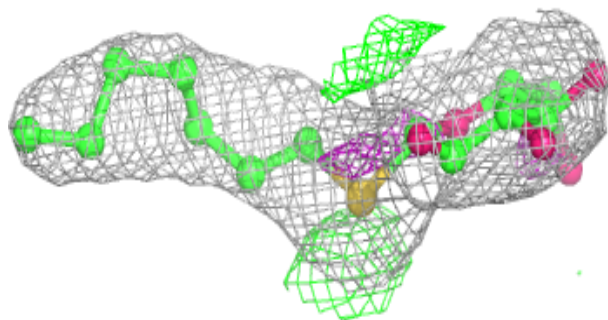
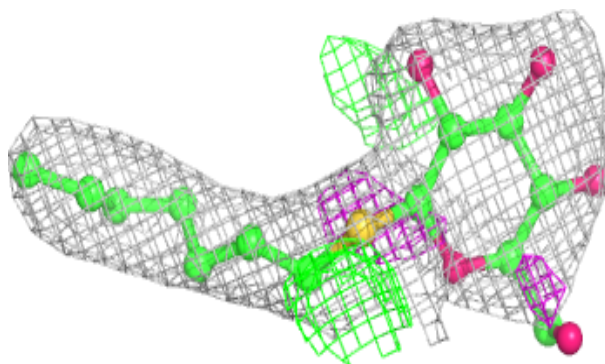
**Electron density around LMG c 519:**

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



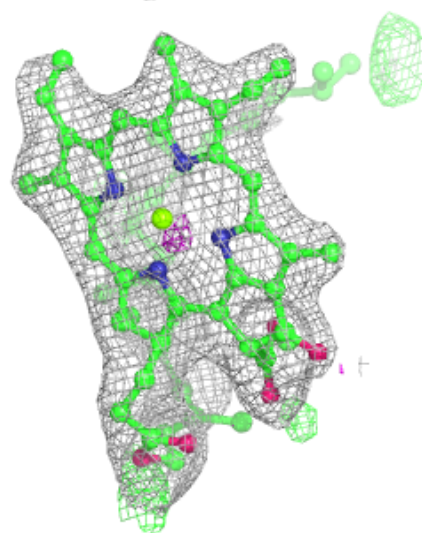
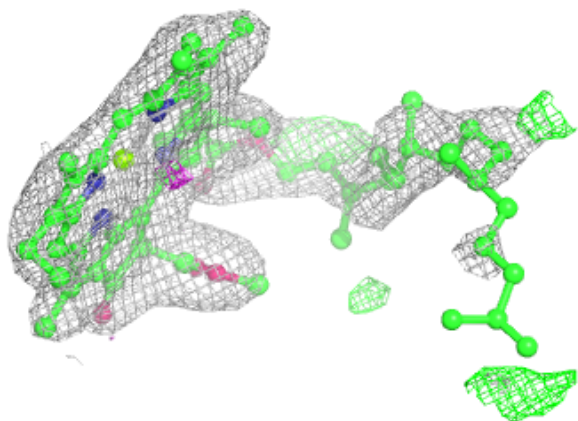
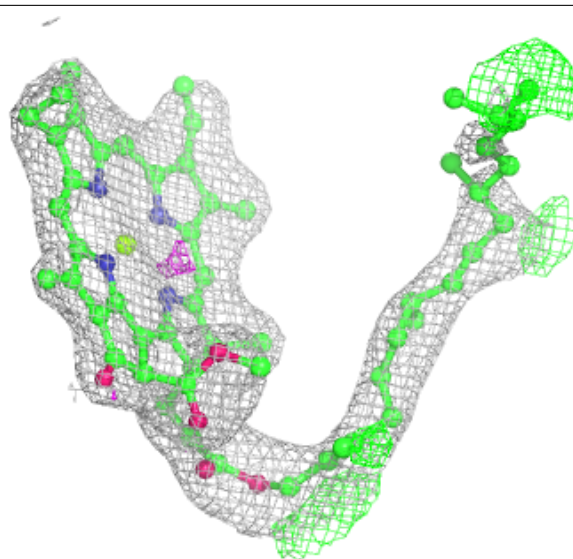
**Electron density around HTG o 301:**

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



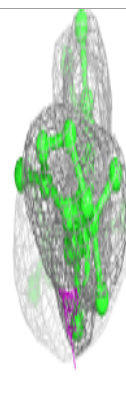
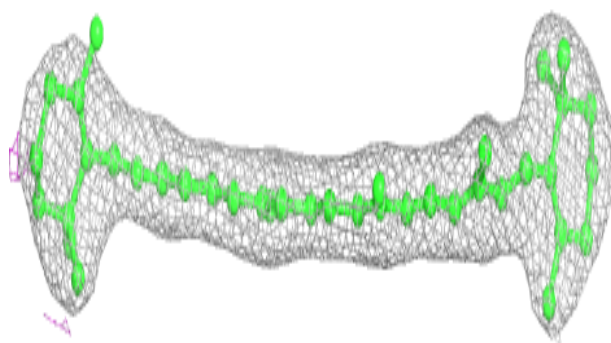
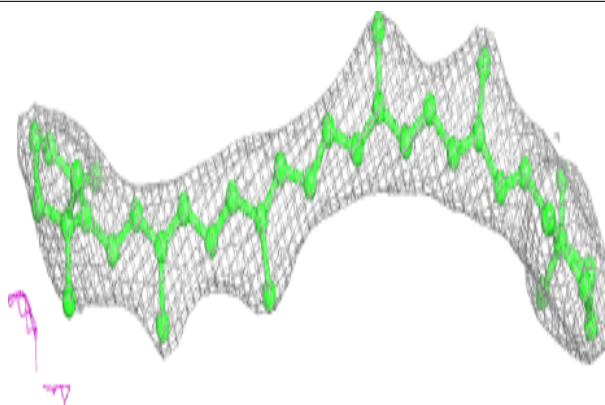
**Electron density around CLA b 616:**

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

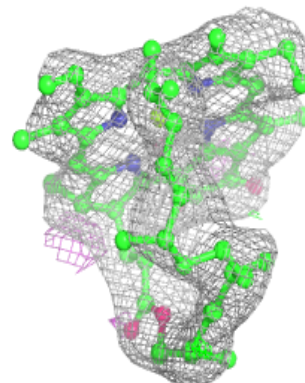
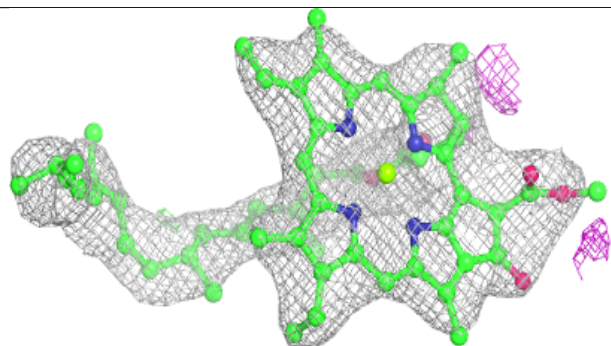
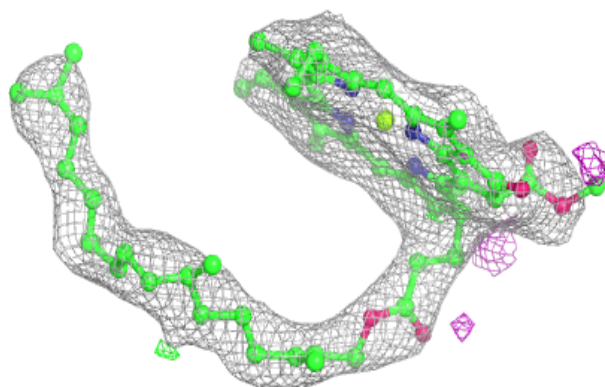


**Electron density around BCR h 101:**

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

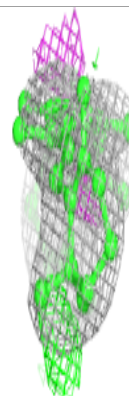
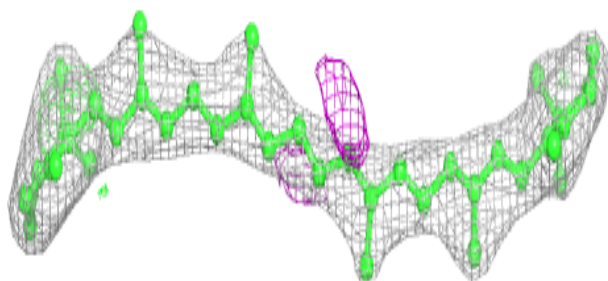
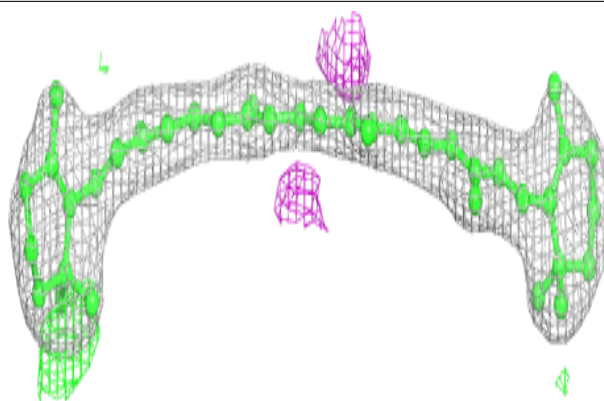
**Electron density around CLA C 514:**

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

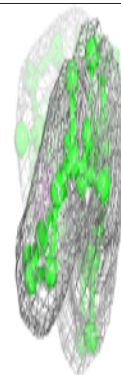
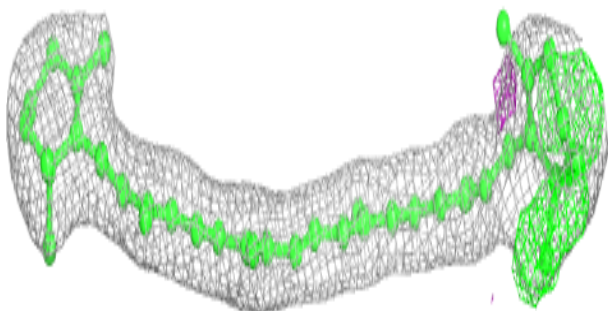
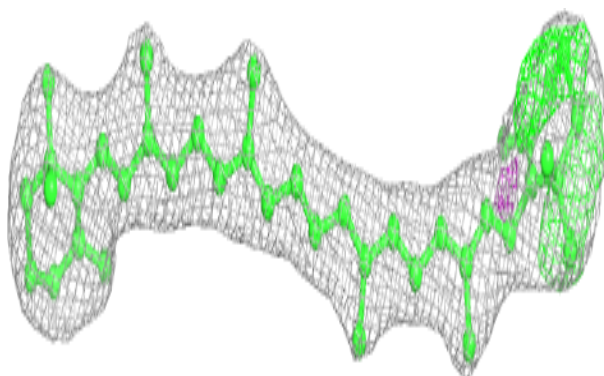


**Electron density around BCR K 102:**

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

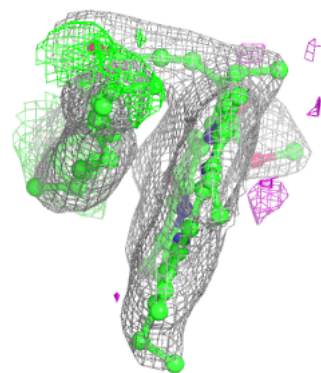
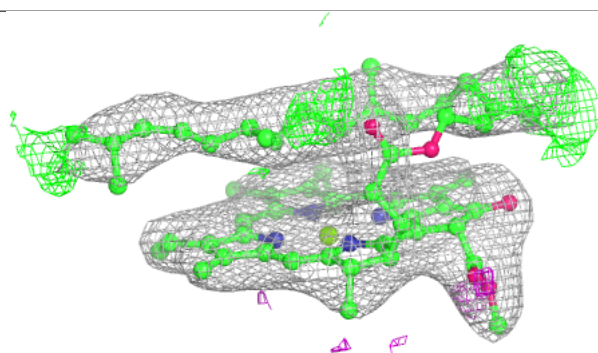
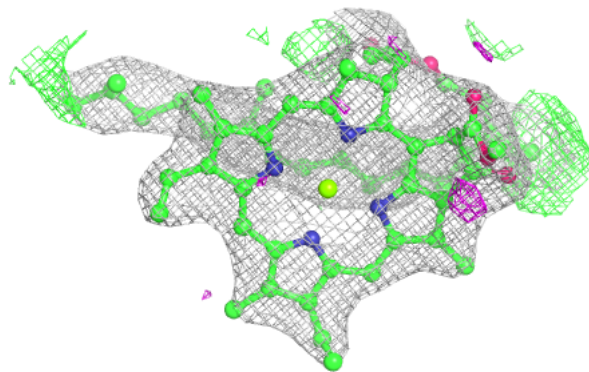
**Electron density around BCR d 404:**

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



**Electron density around CLA B 601:**

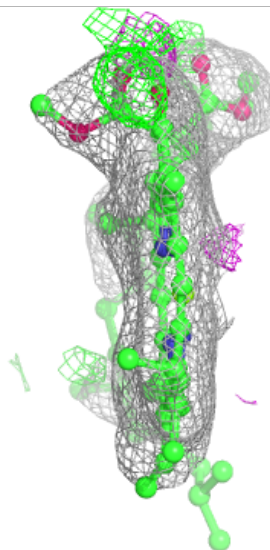
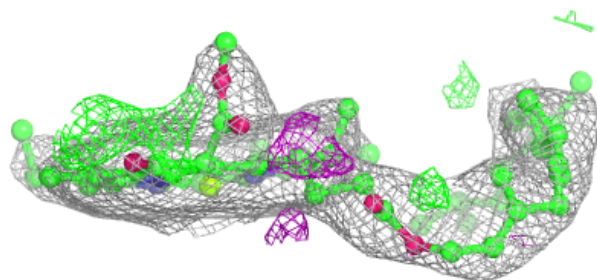
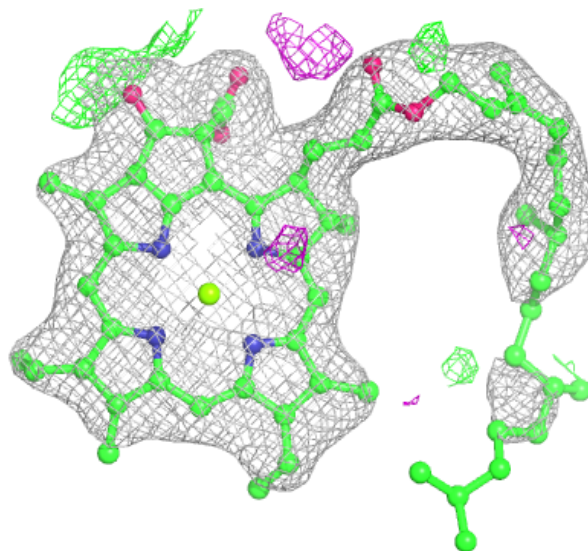
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





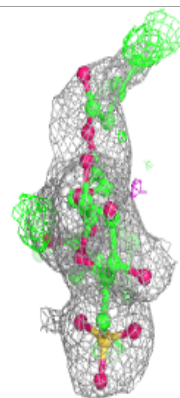
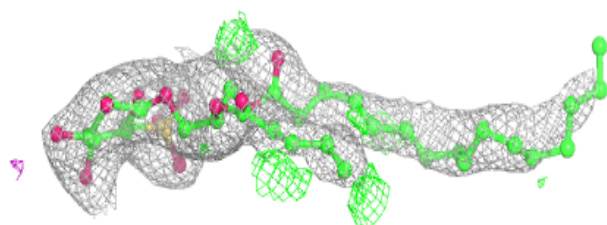
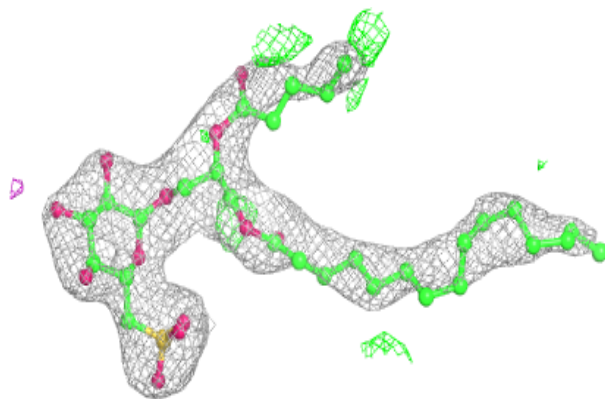
**Electron density around CLA c 512:**

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

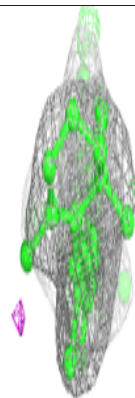
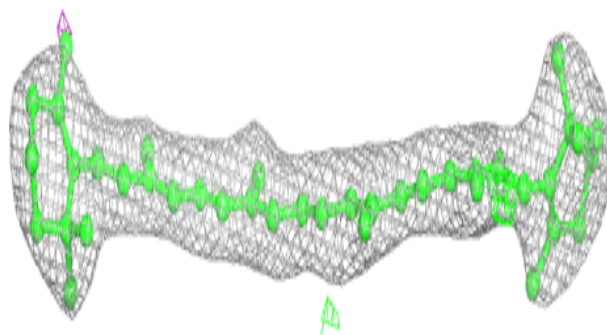
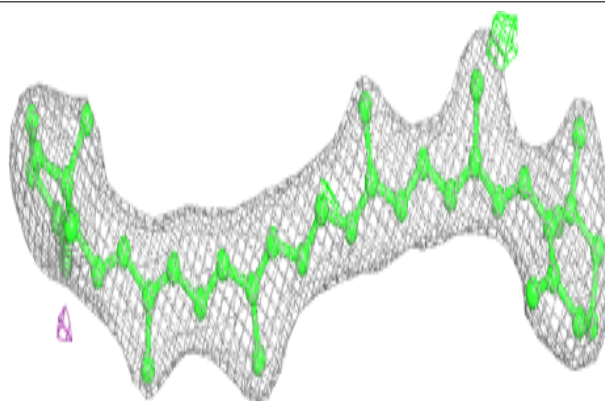


**Electron density around SQD F 103:**

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

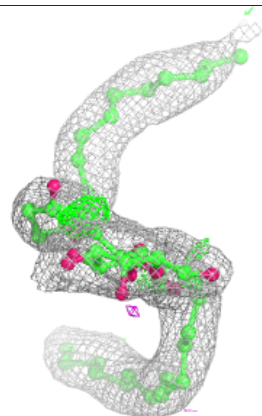
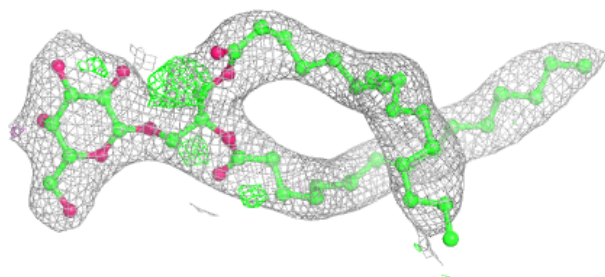
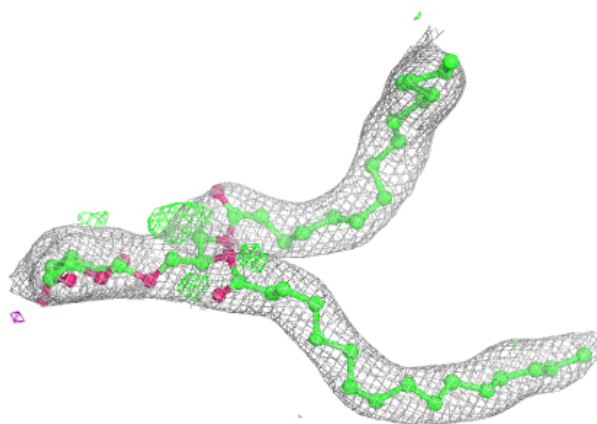
**Electron density around BCR Y 101:**

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

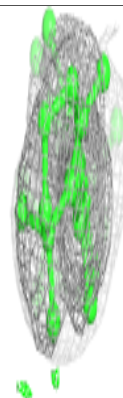
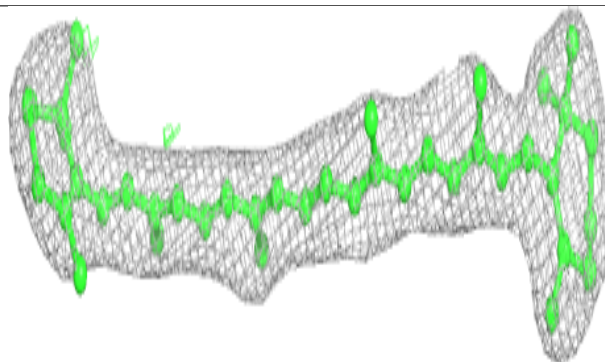
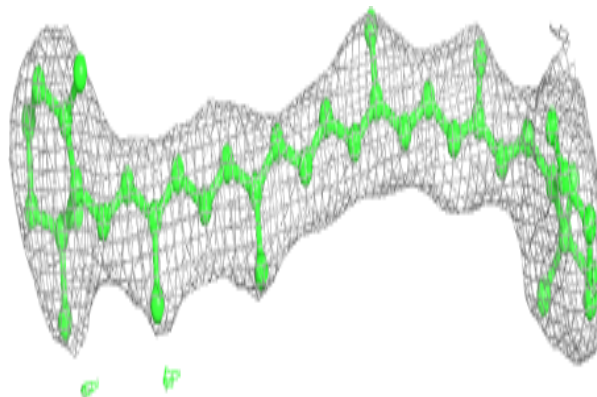


**Electron density around LMG B 621:**

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

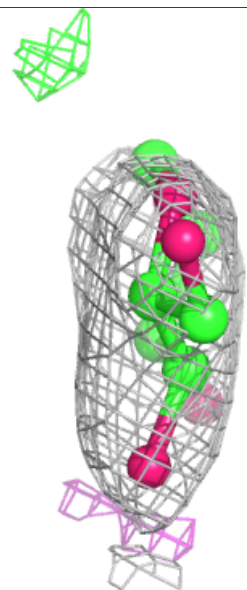
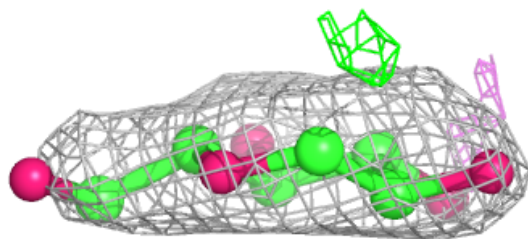
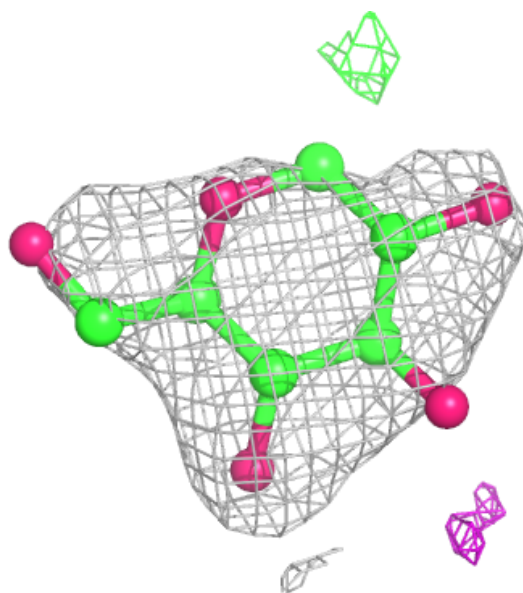
**Electron density around BCR c 514:**

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



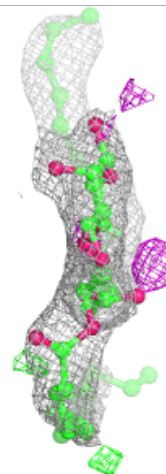
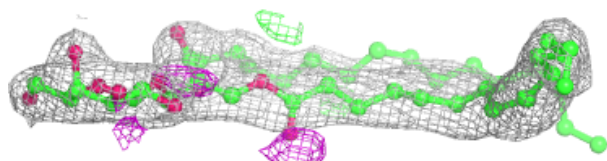
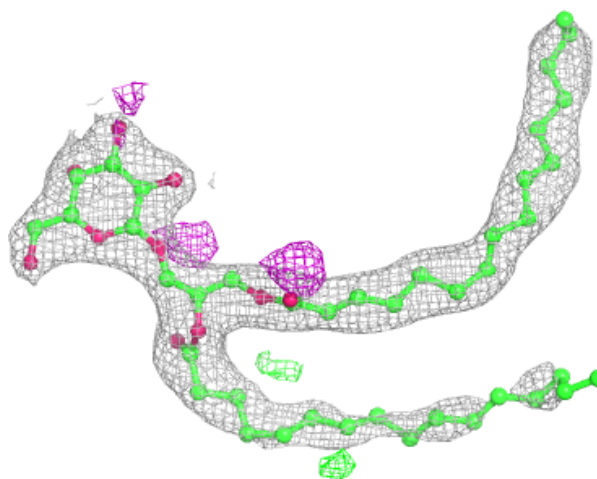
**Electron density around HTG V 202:**

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



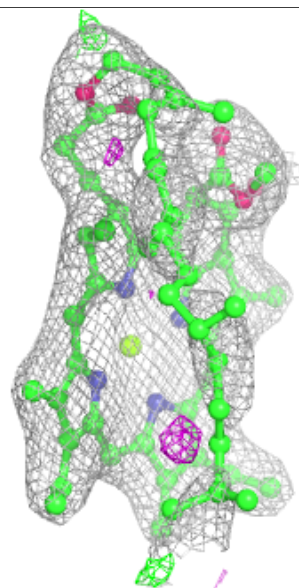
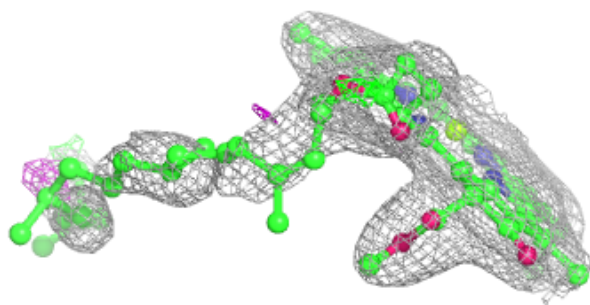
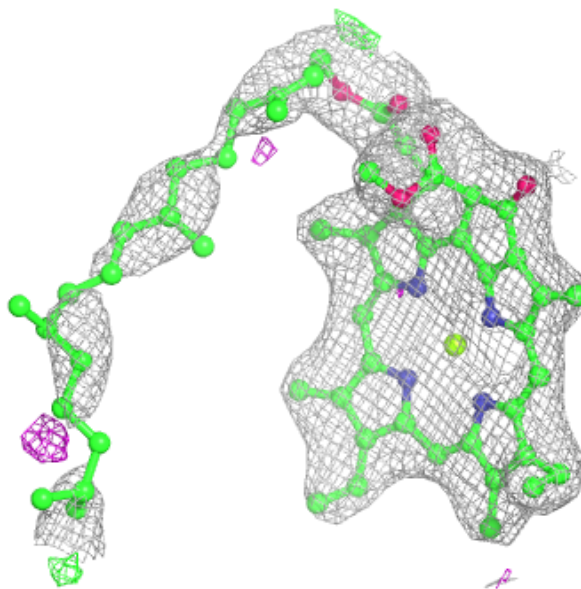
**Electron density around LMG C 520:**

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



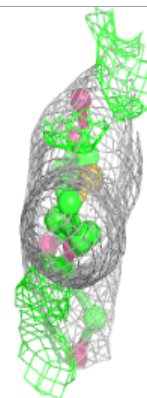
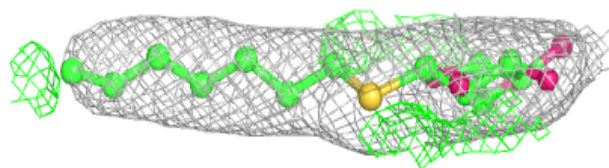
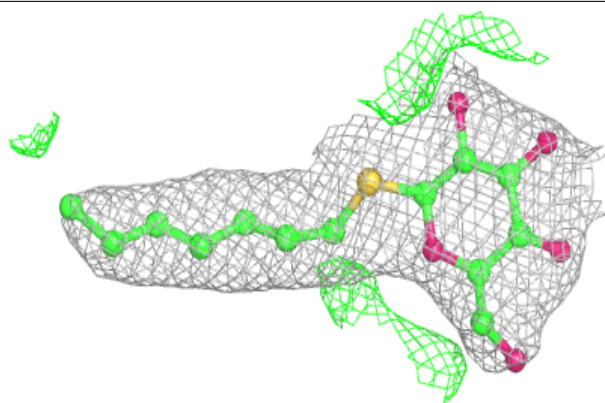
**Electron density around CLA B 616:**

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

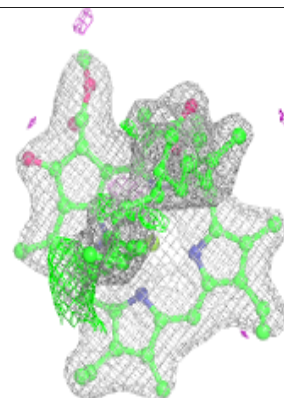
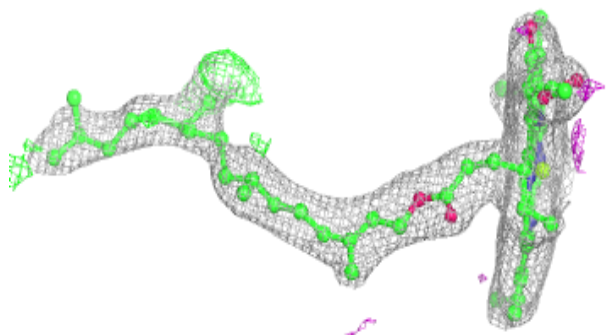
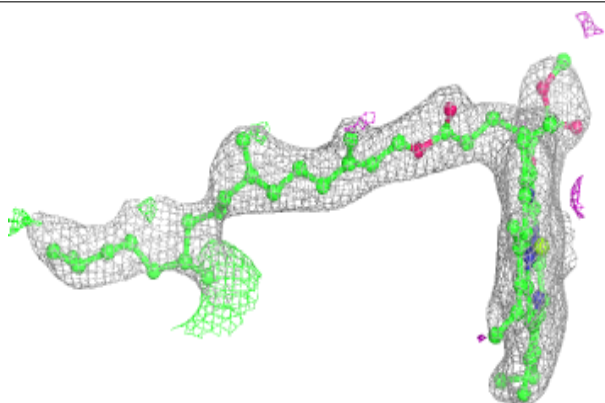


**Electron density around HTG b 625:**

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

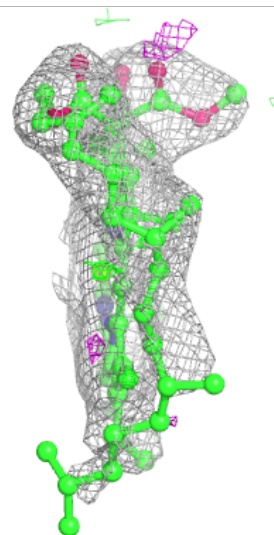
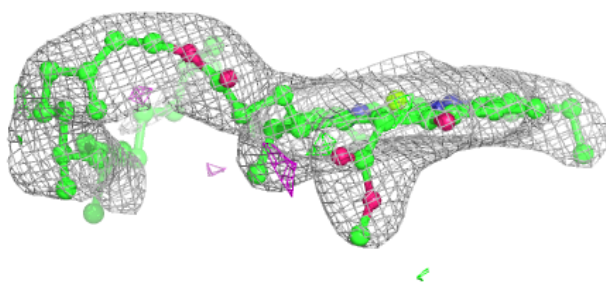
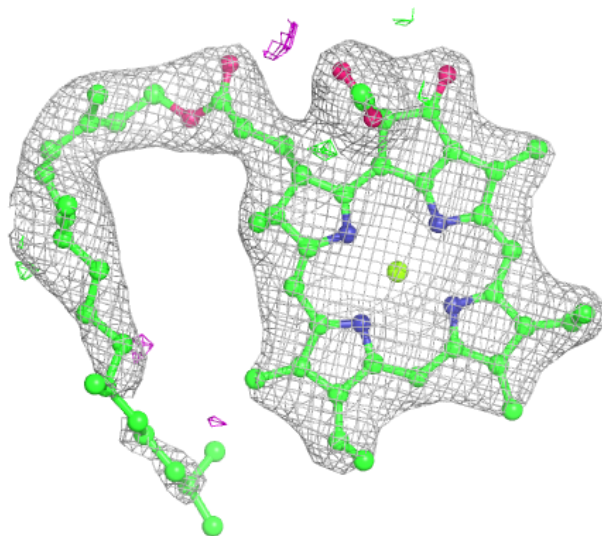
**Electron density around CLA b 606:**

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



**Electron density around CLA C 513:**

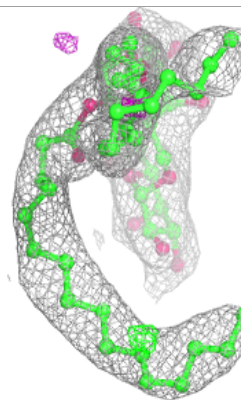
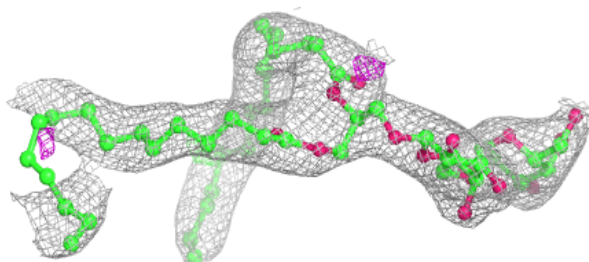
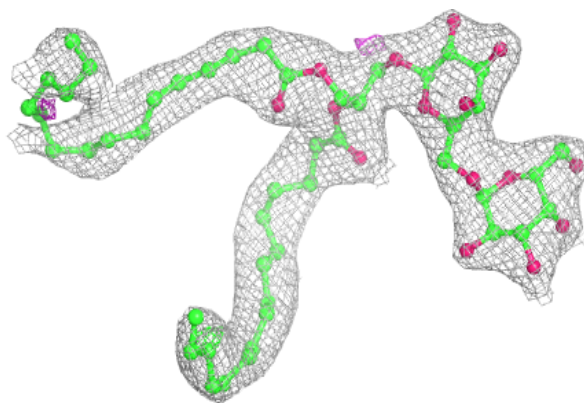
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



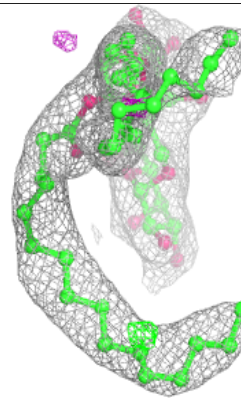
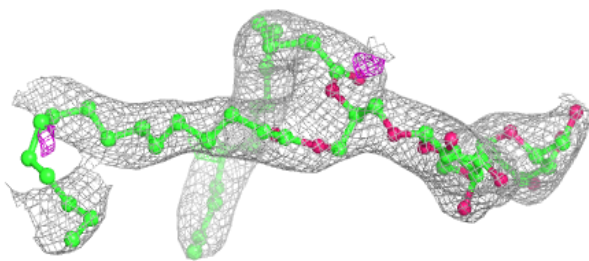
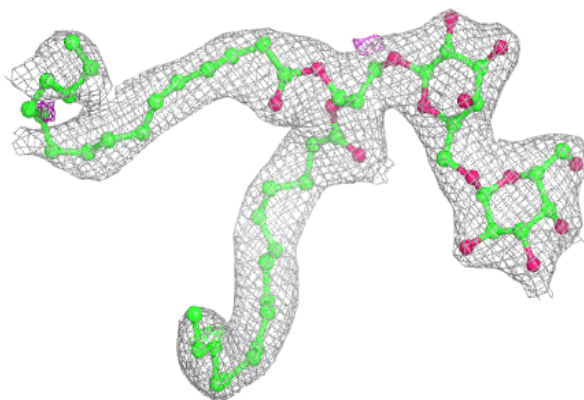


**Electron density around DGD c 517 (A):**

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

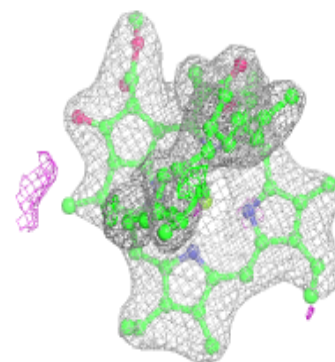
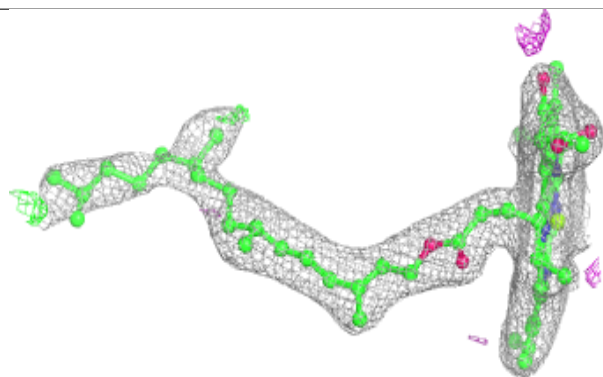
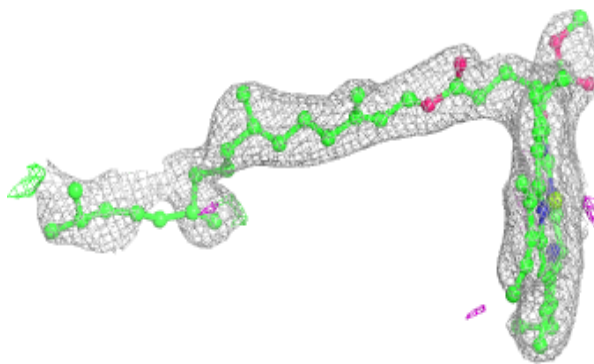
**Electron density around DGD c 517 (B):**

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

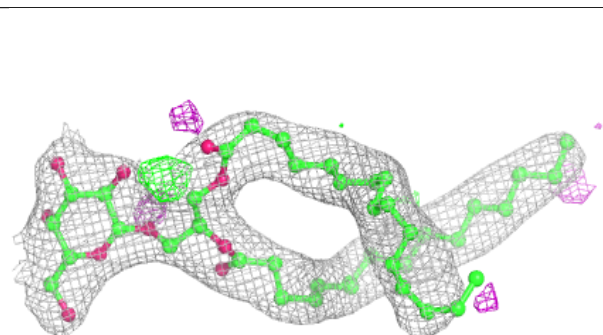
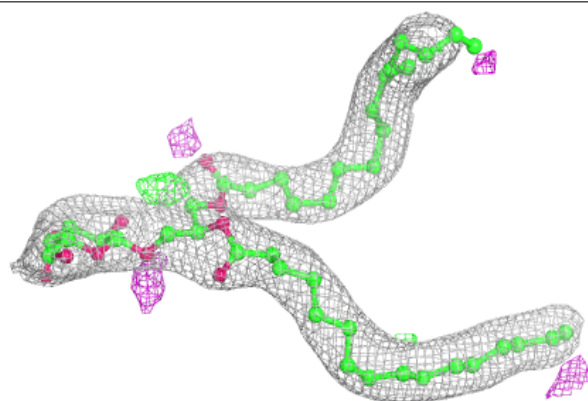


**Electron density around CLA B 606:**

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

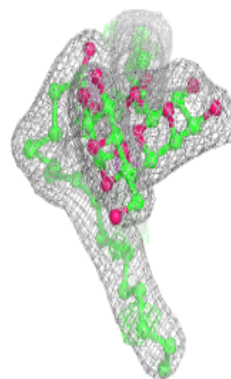
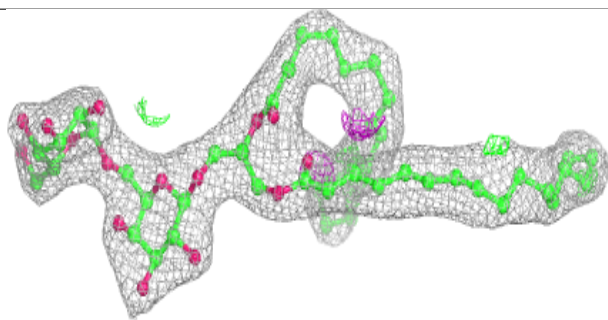
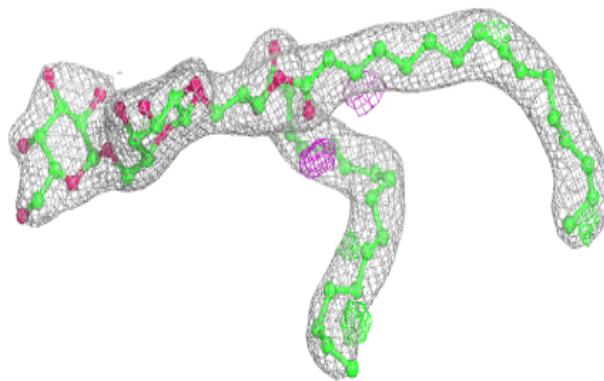
**Electron density around LMG m 101:**

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

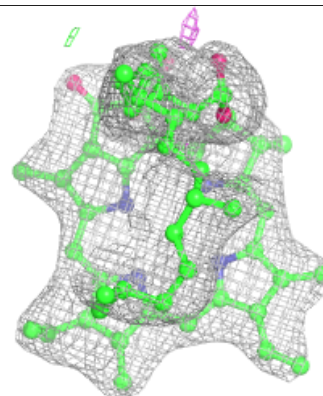
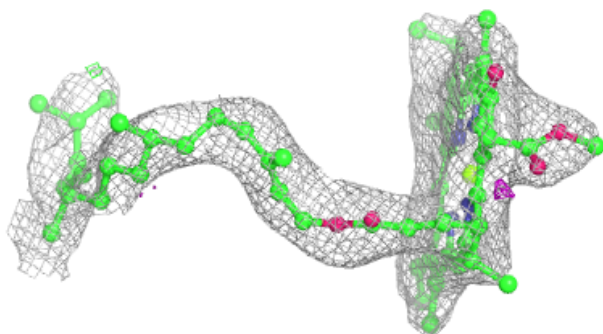
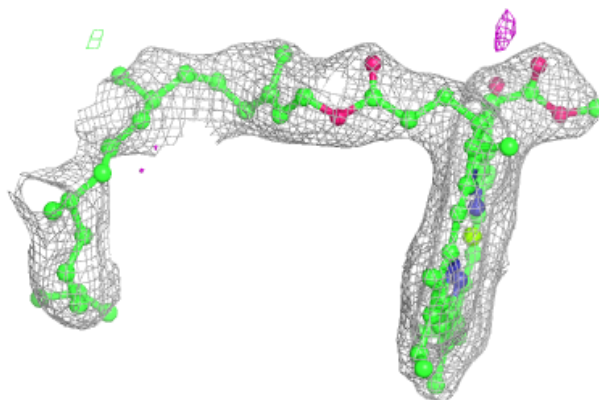


**Electron density around DGD h 102:**

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

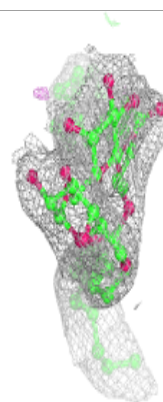
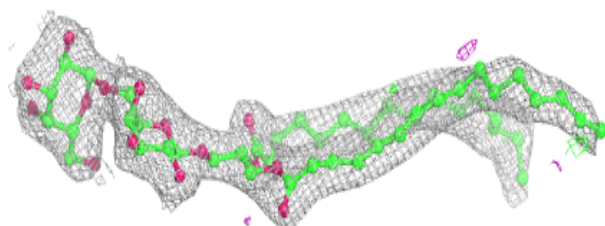
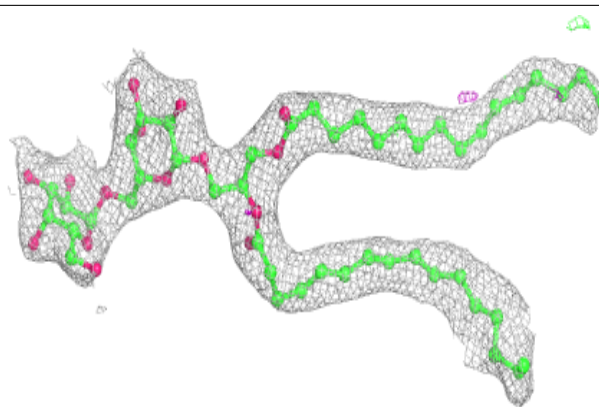
**Electron density around CLA C 507:**

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

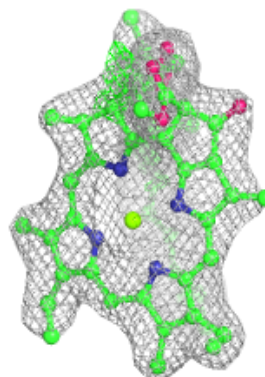
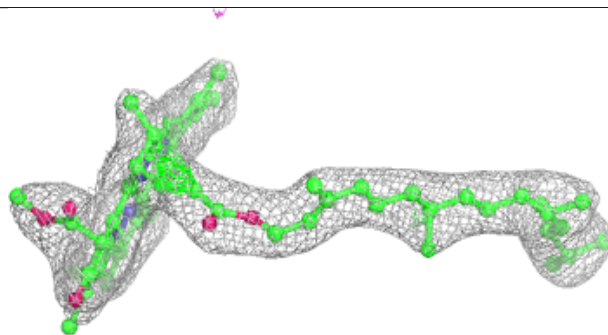
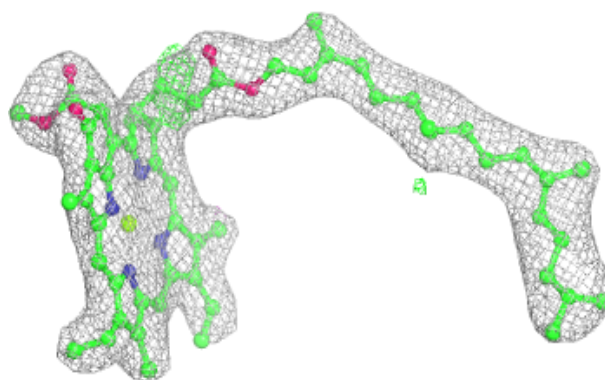


**Electron density around DGD c 518:**

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

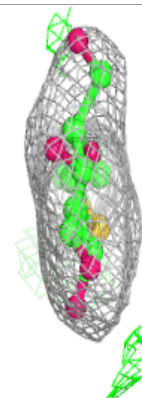
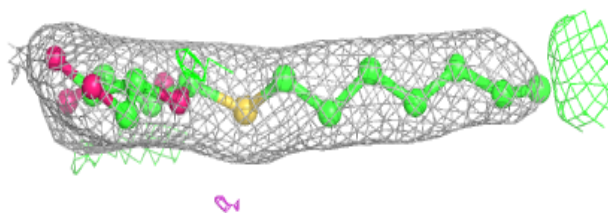
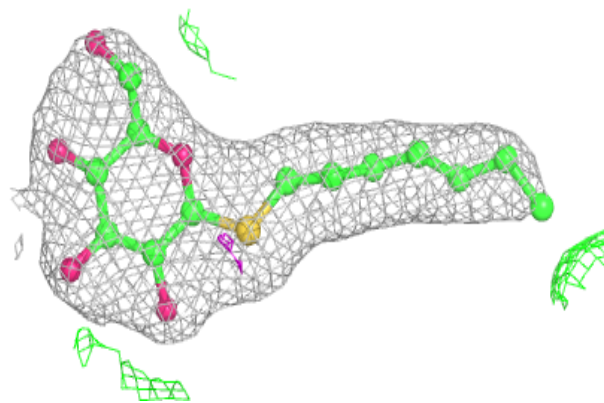
**Electron density around CLA B 609:**

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

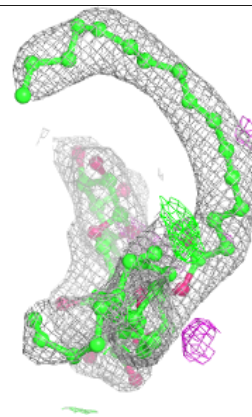
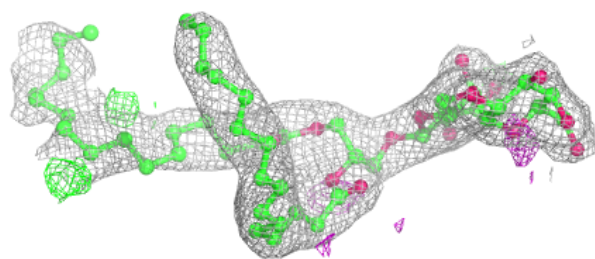
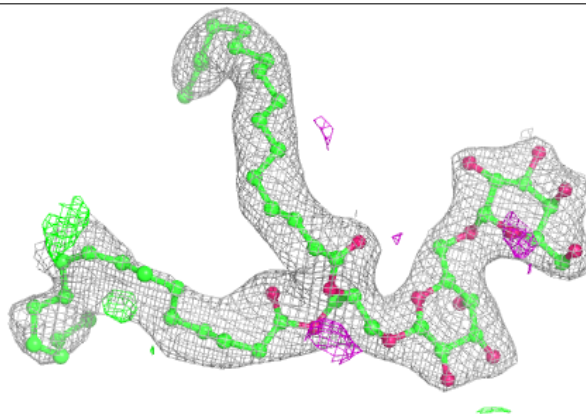


**Electron density around HTG B 624:**

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

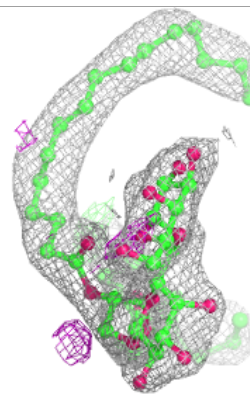
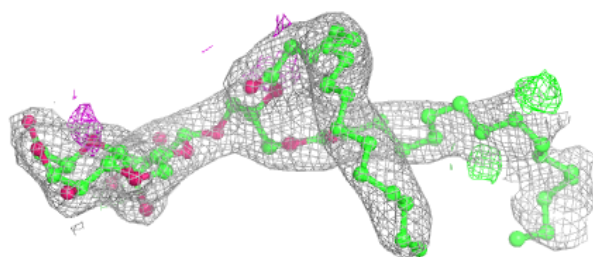
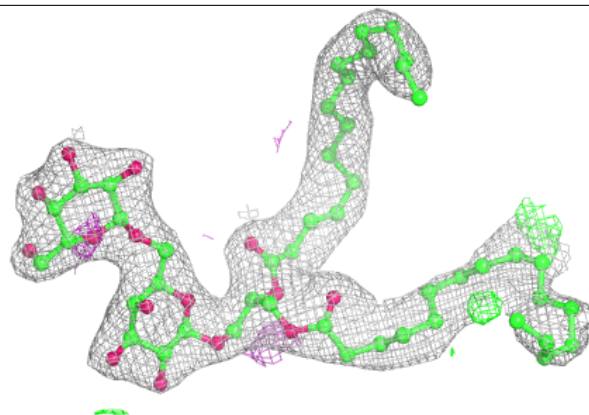
**Electron density around DGD C 518 (A):**

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

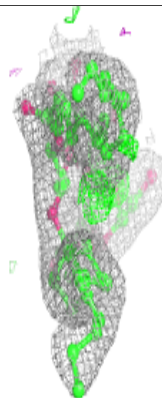
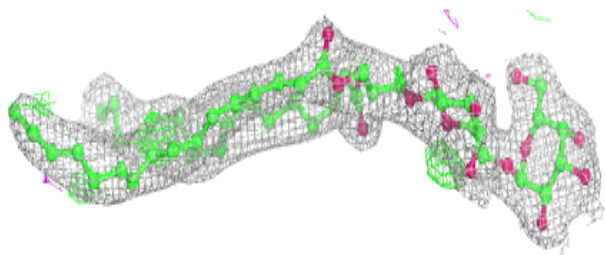
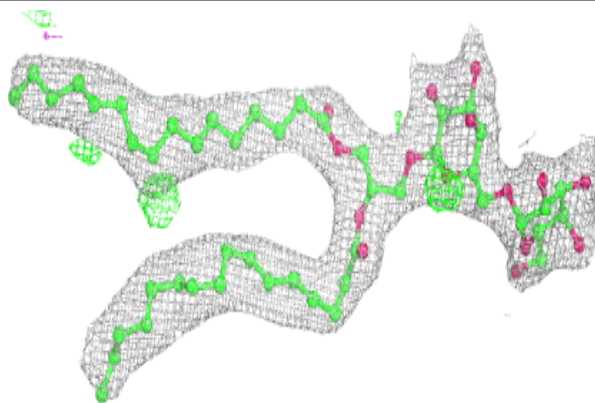


**Electron density around DGD C 518 (B):**

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

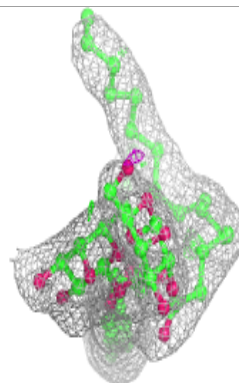
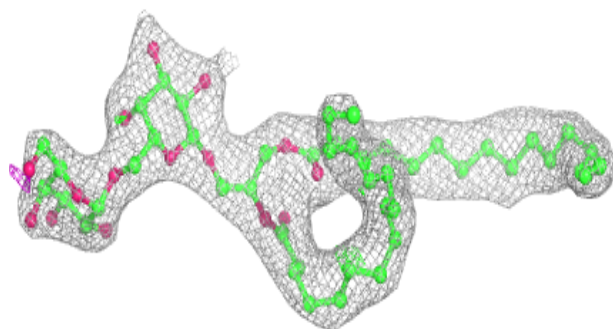
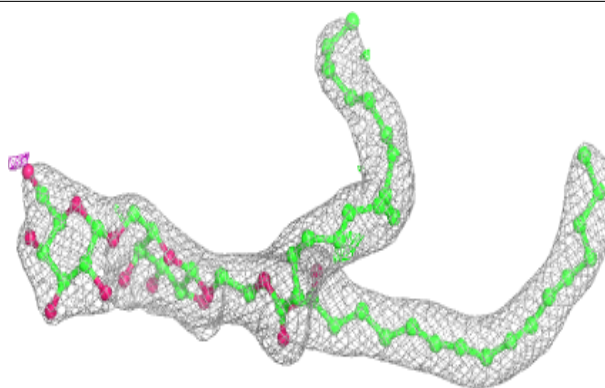
**Electron density around DGD C 519:**

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

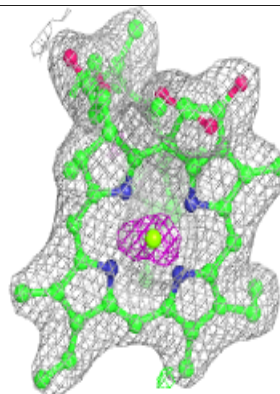
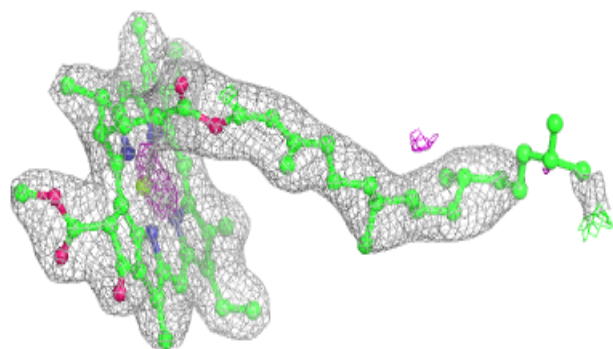
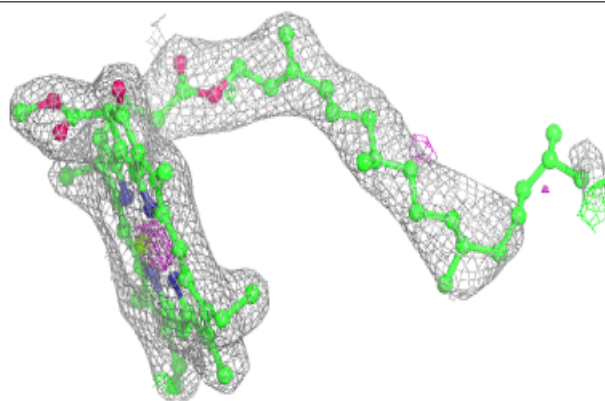


**Electron density around DGD H 102:**

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

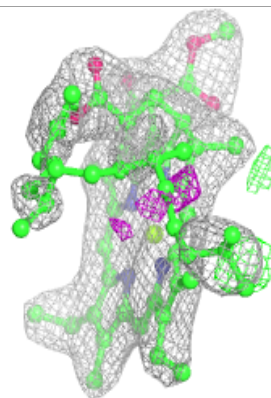
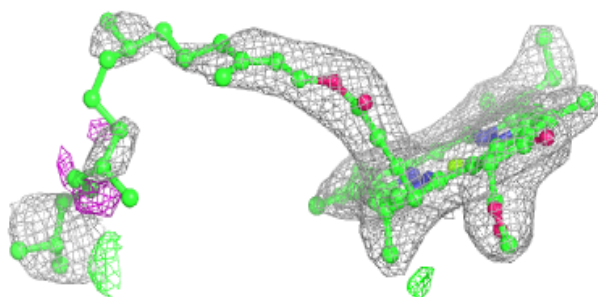
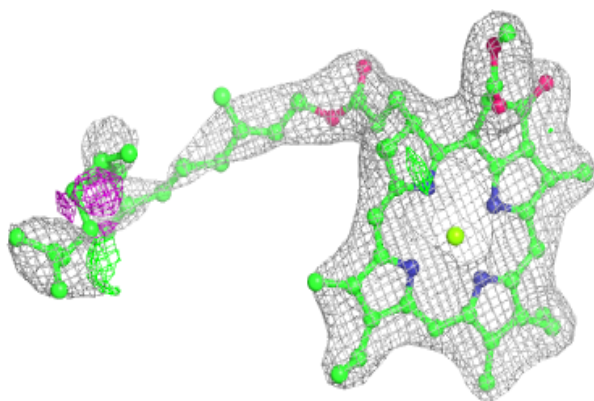
**Electron density around CLA C 509:**

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

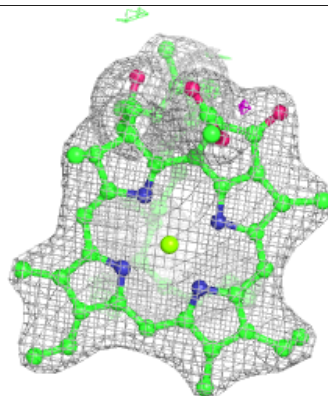
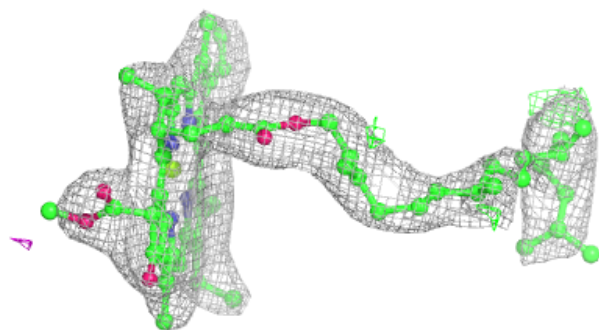
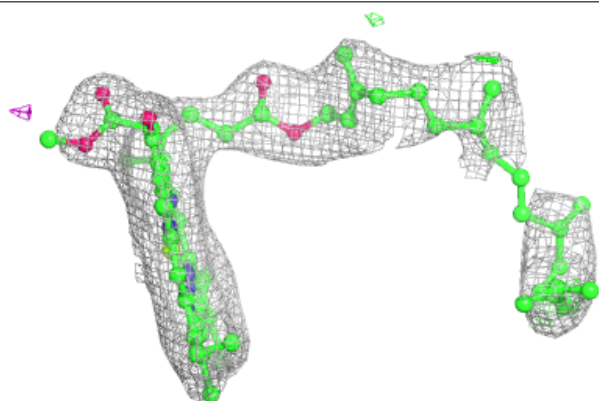


**Electron density around CLA a 408:**

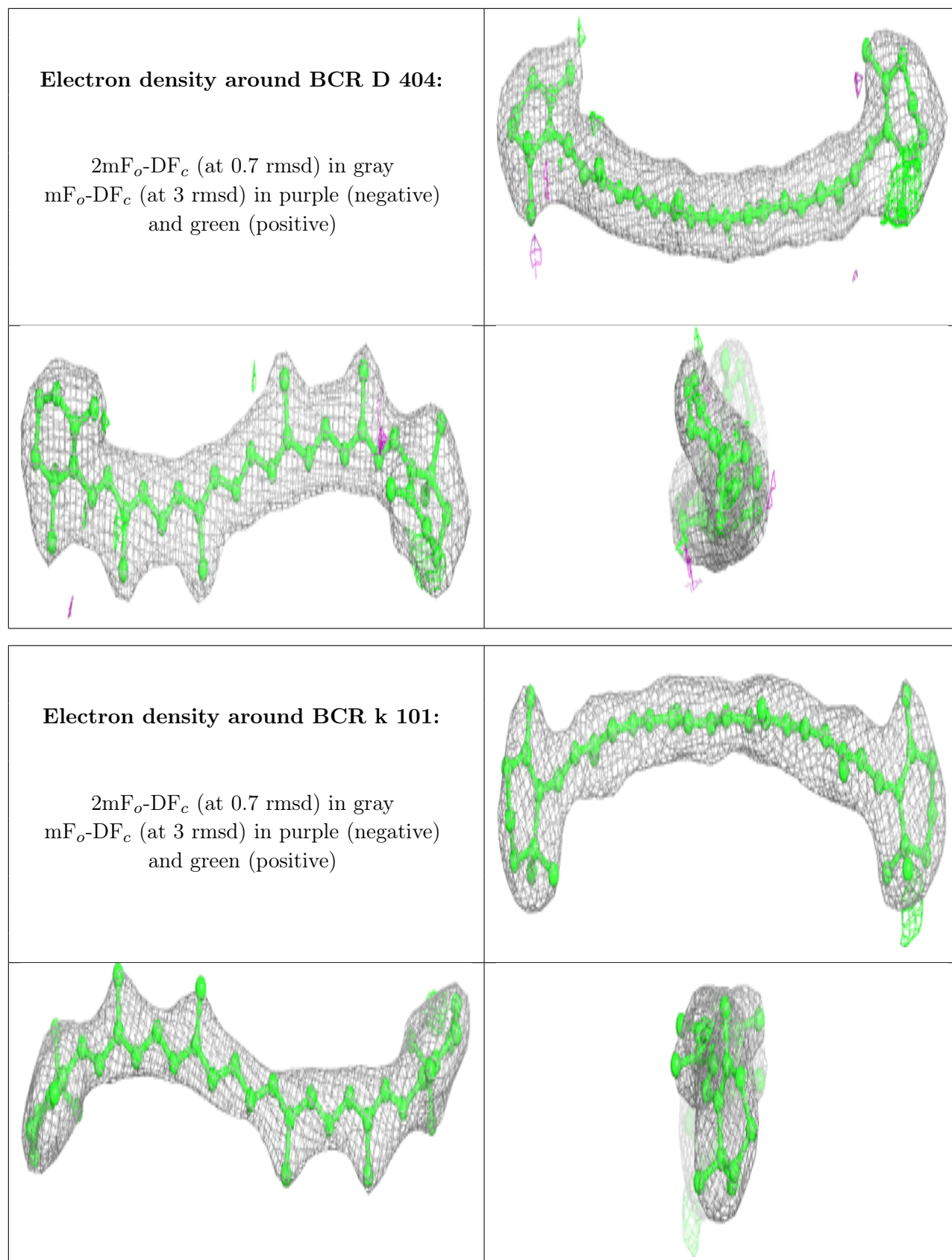
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around CLA c 506:**

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

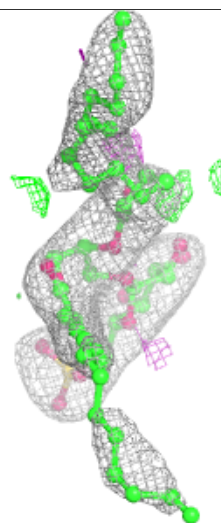
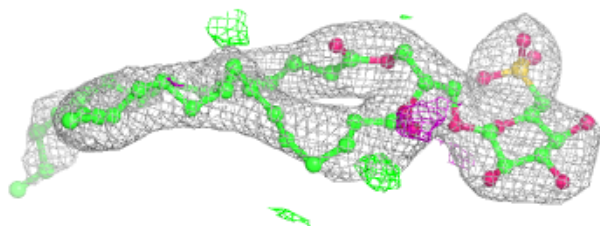
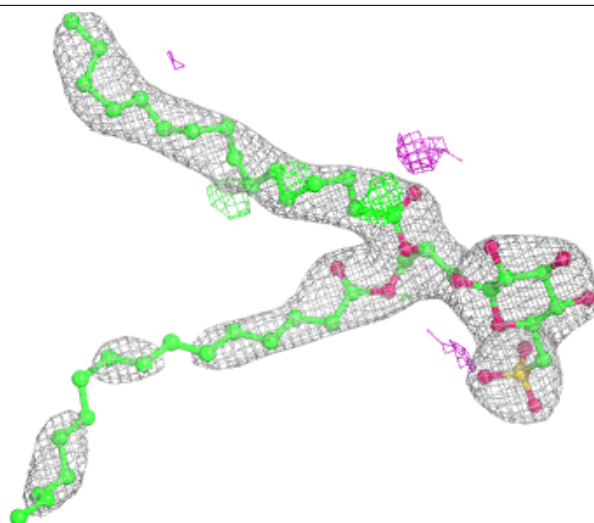






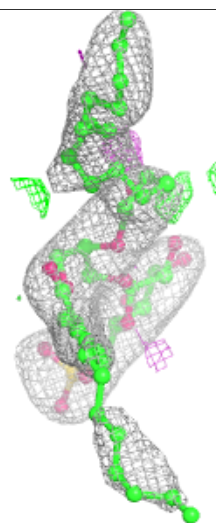
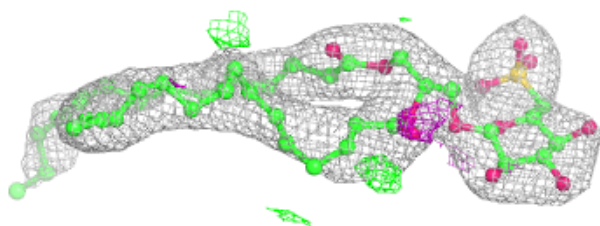
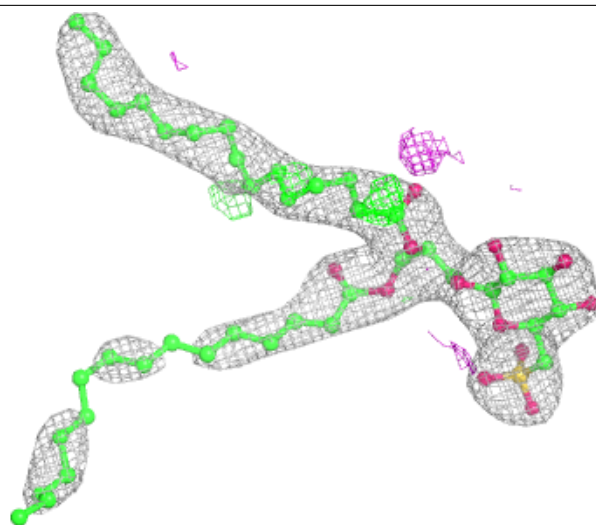
**Electron density around SQD A 410 (A):**

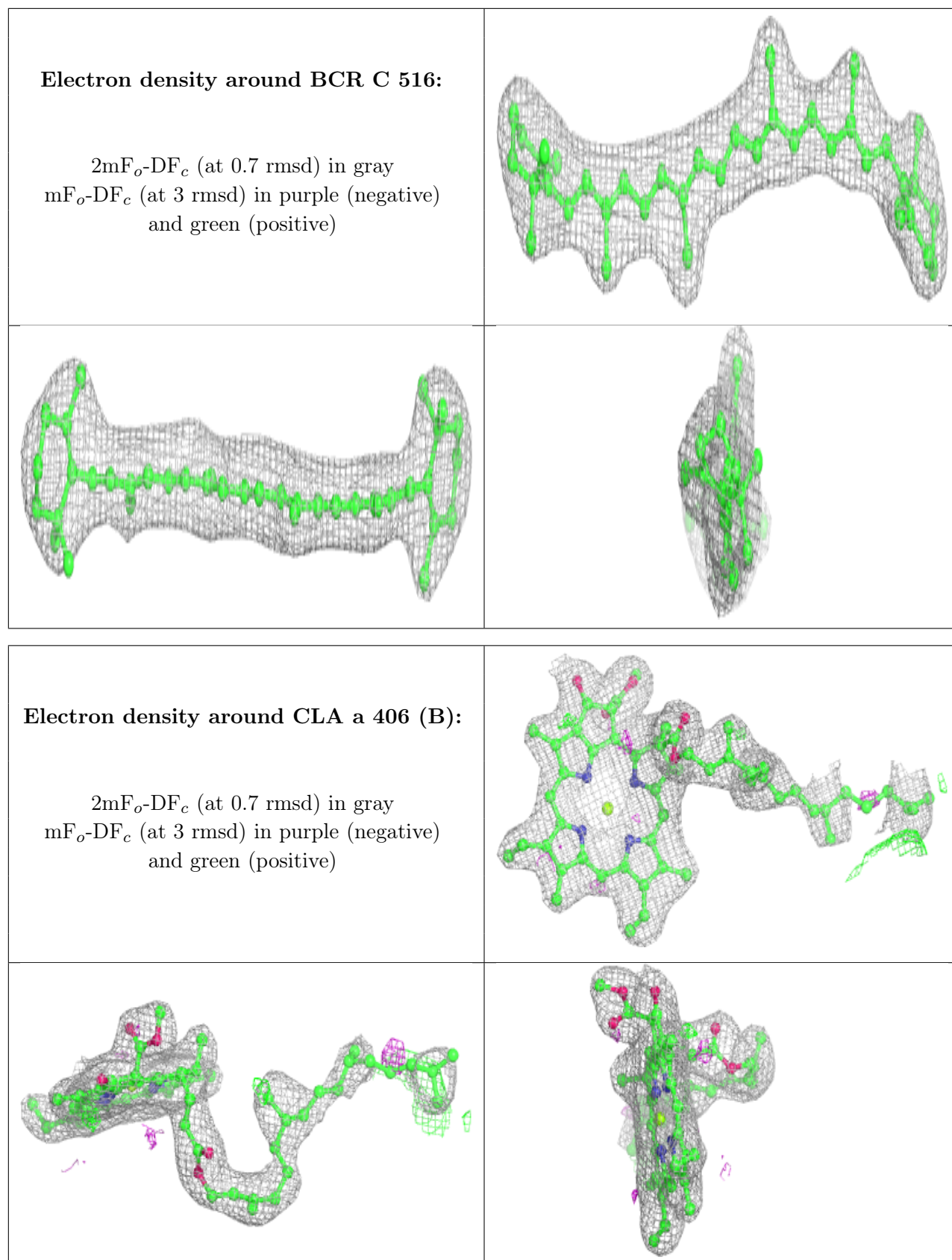
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around SQD A 410 (B):**

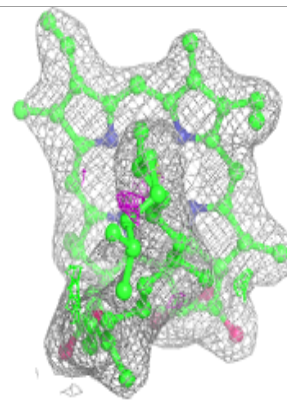
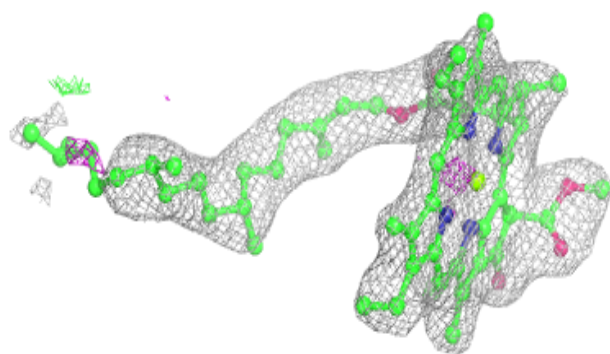
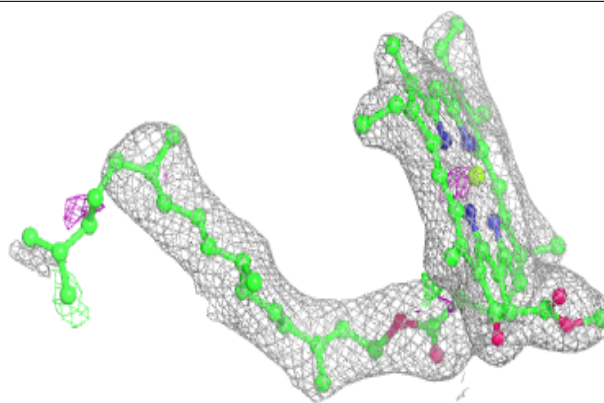
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





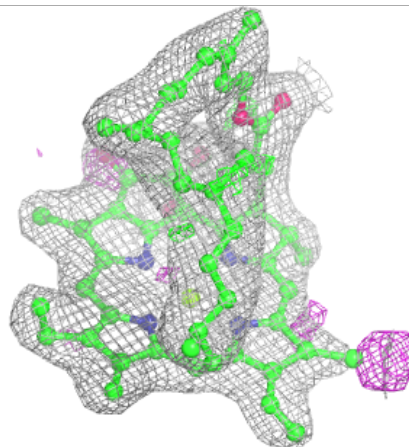
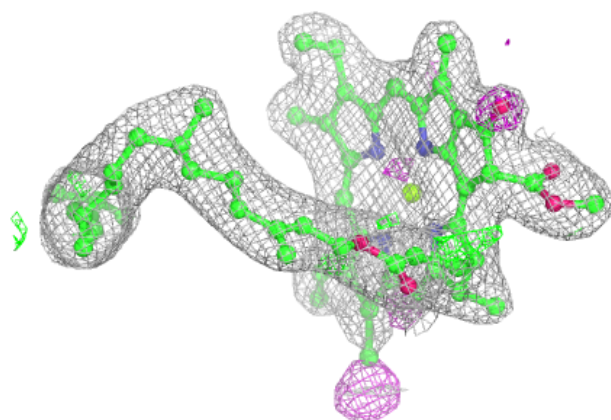
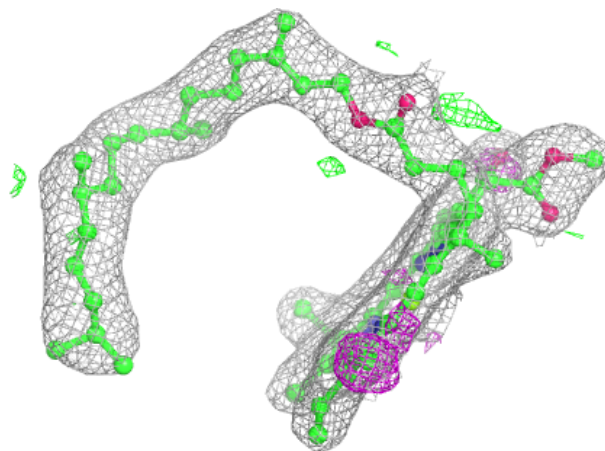
**Electron density around CLA c 508:**

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



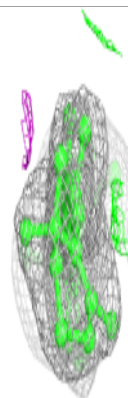
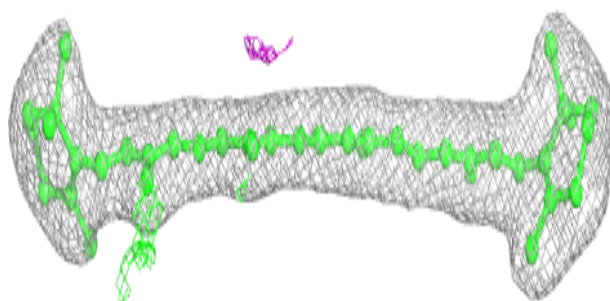
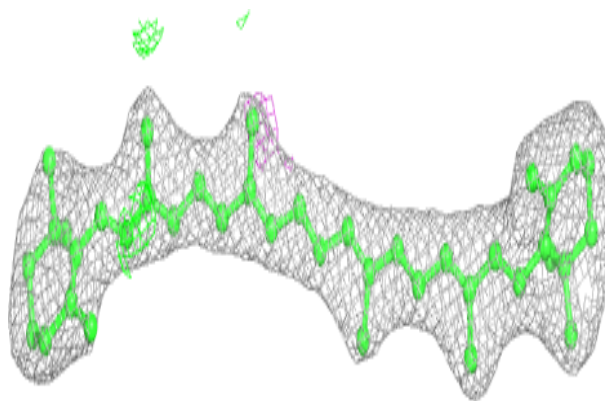
**Electron density around CLA B 611:**

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

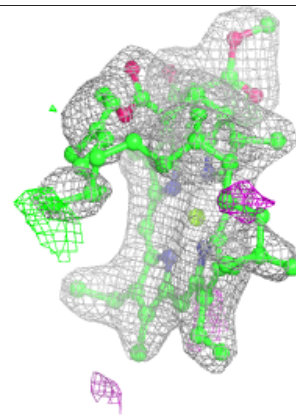
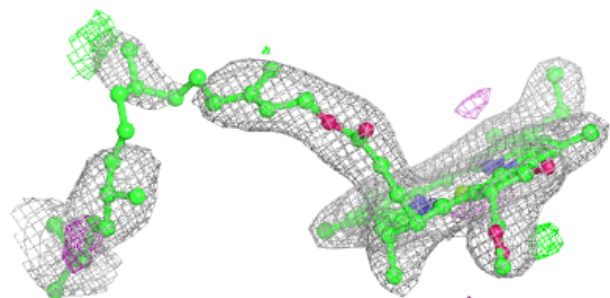
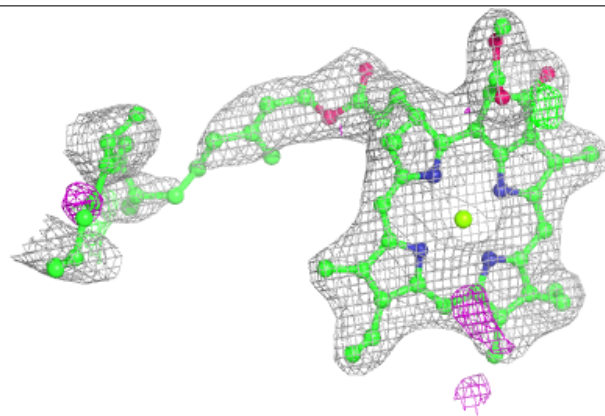


**Electron density around BCR b 618:**

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

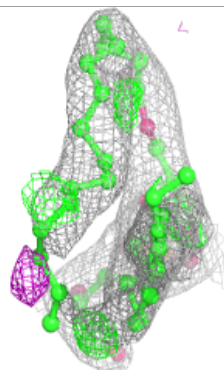
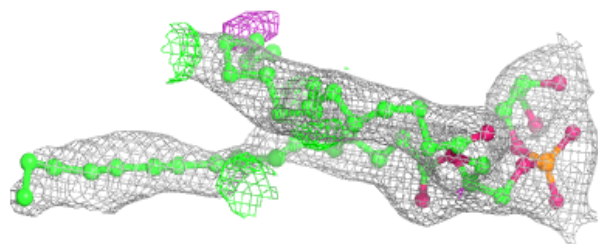
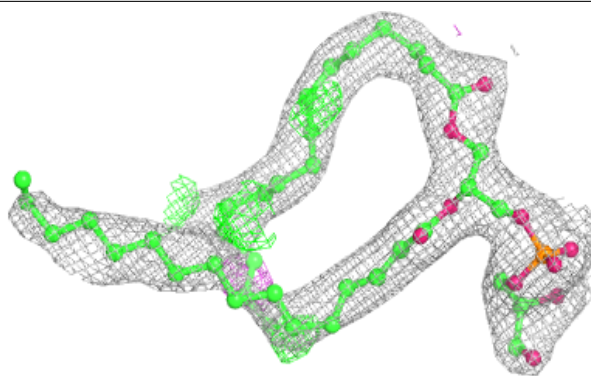
**Electron density around CLA A 408:**

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

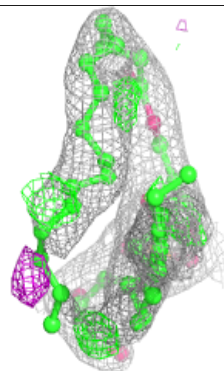
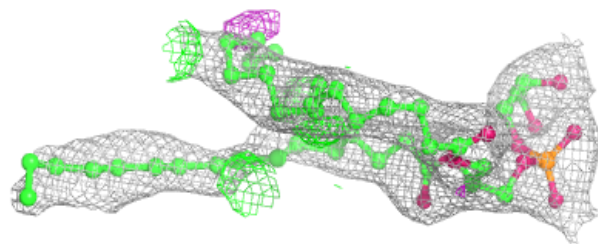
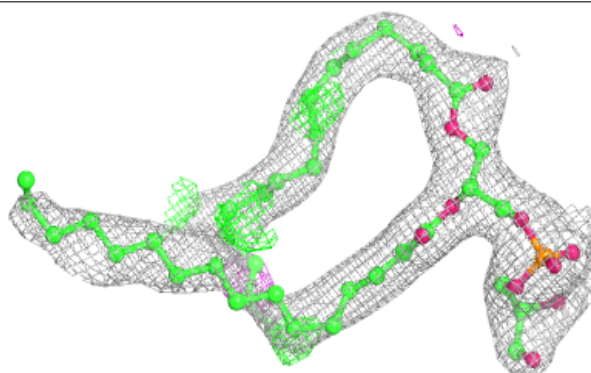


**Electron density around LHG d 407 (A):**

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

**Electron density around LHG d 407 (B):**

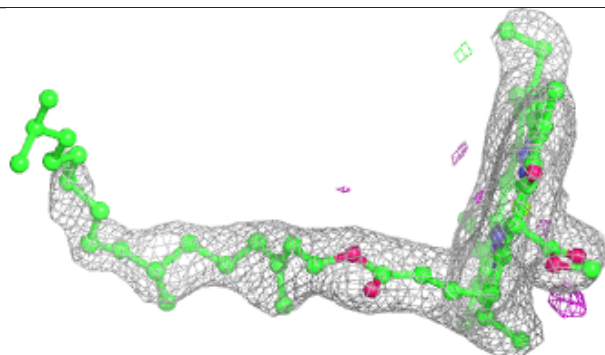
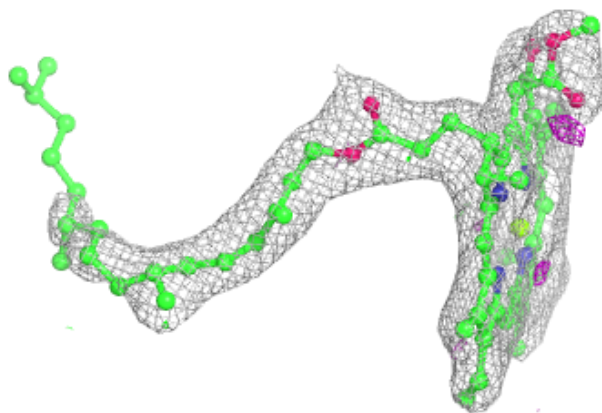
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



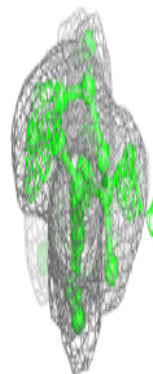
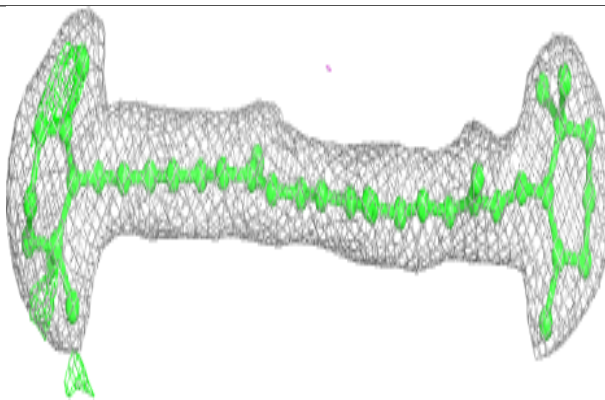
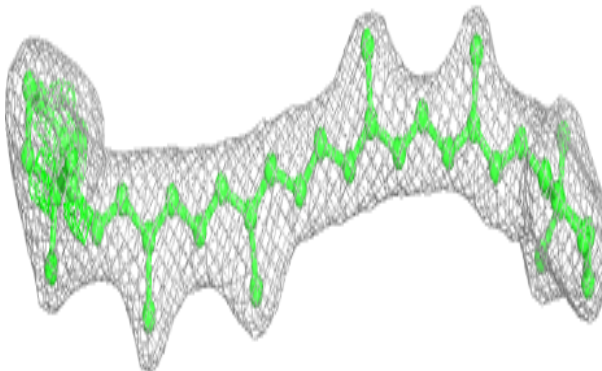


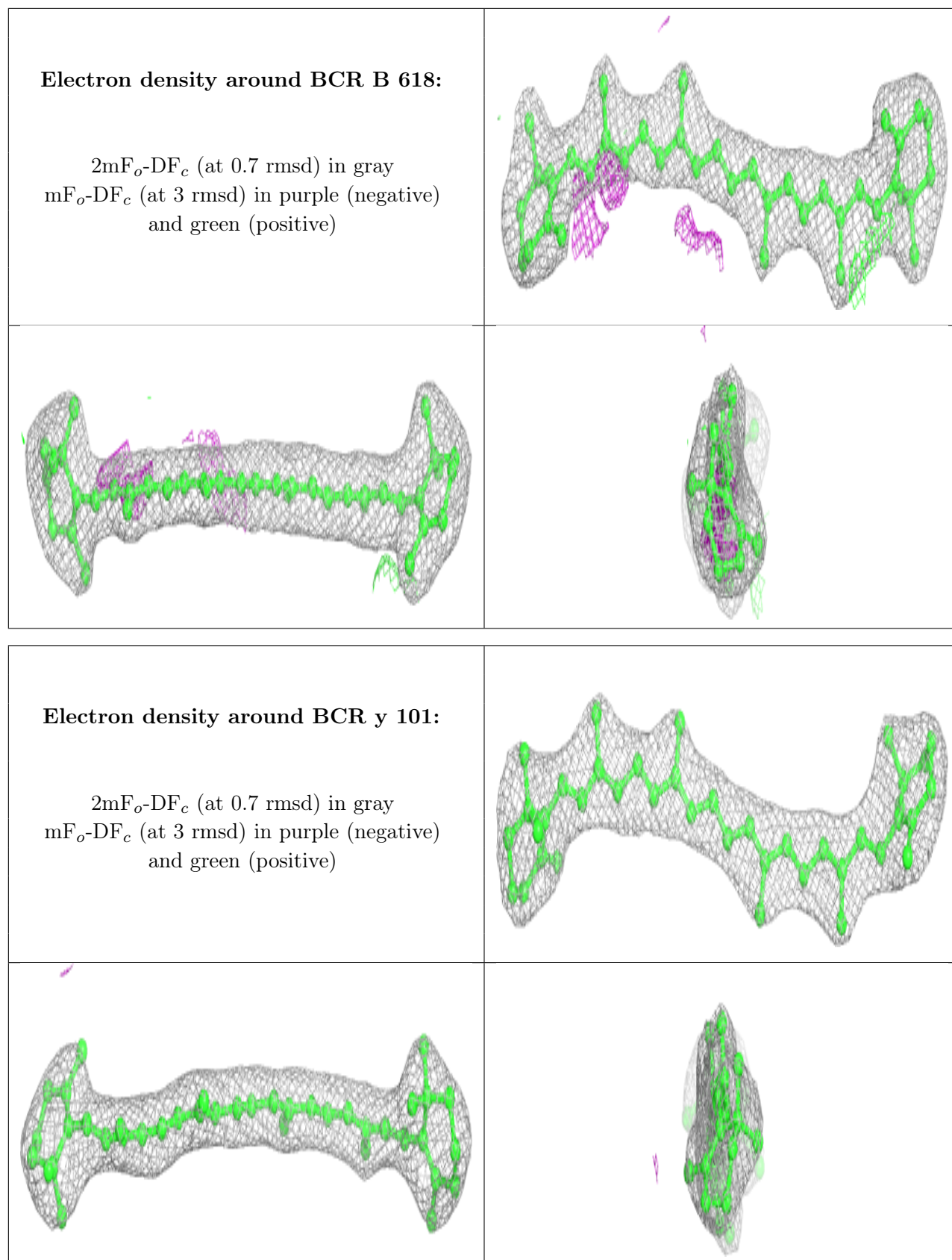
**Electron density around CLA D 403:**

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

**Electron density around BCR A 409:**

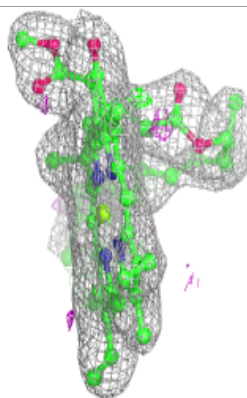
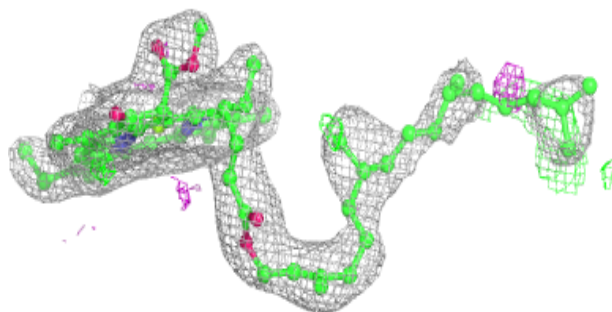
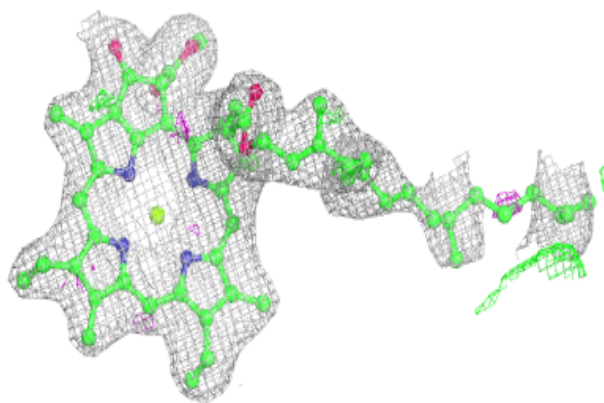
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



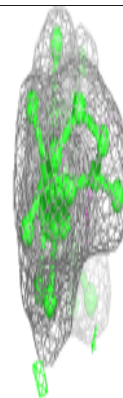
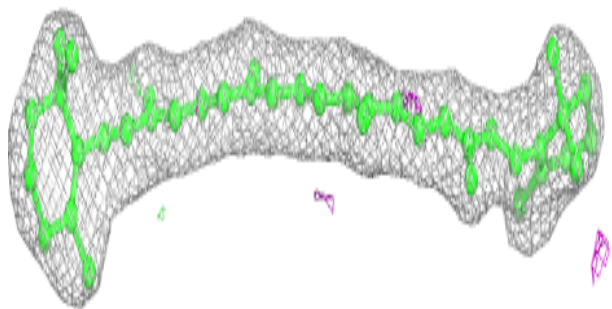
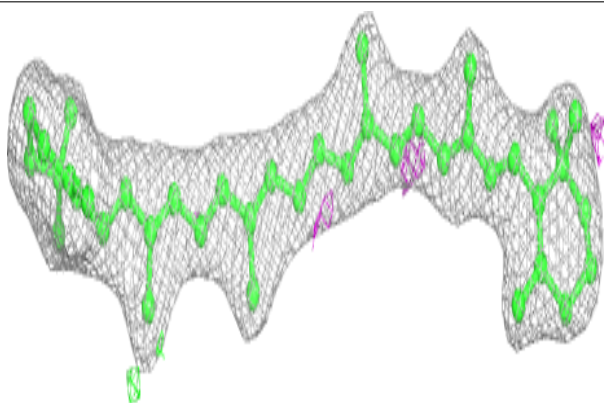


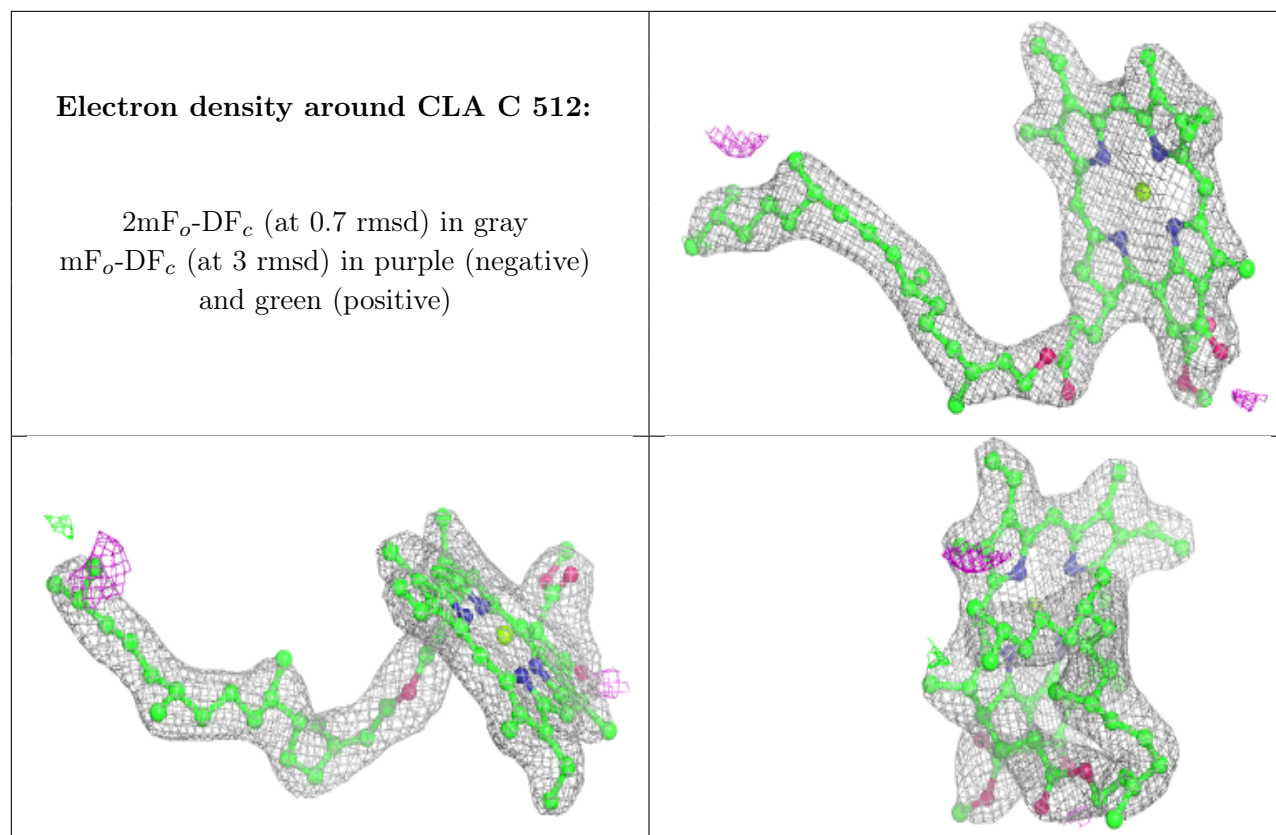
**Electron density around CLA a 406 (A):**

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

**Electron density around BCR b 617:**

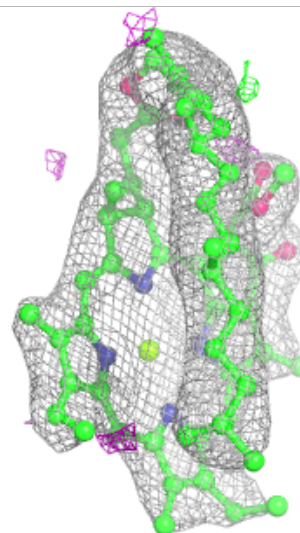
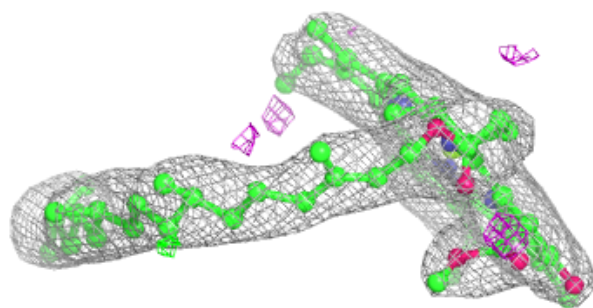
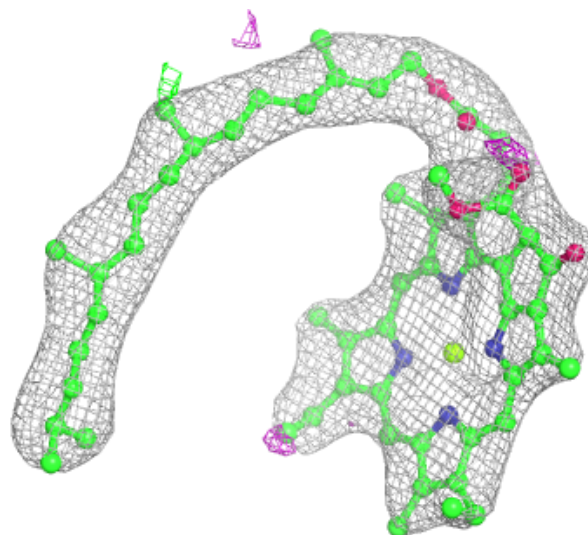
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





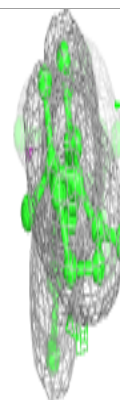
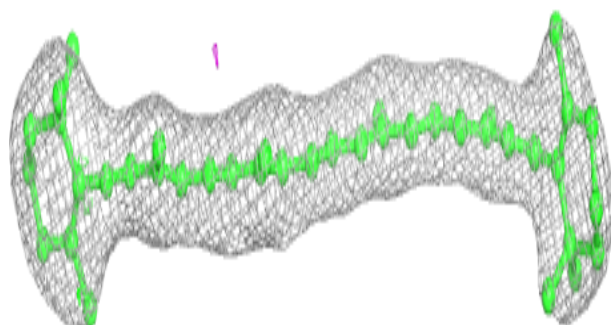
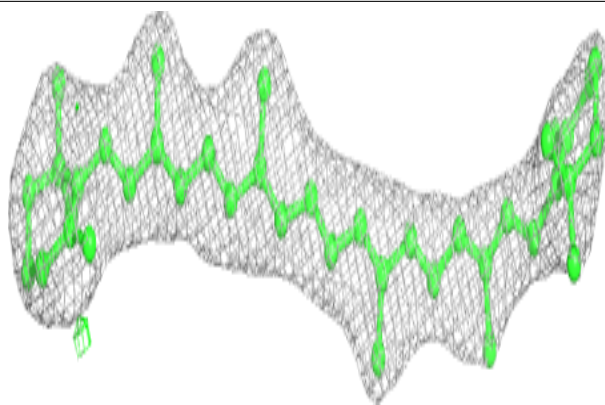
**Electron density around CLA c 507:**

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

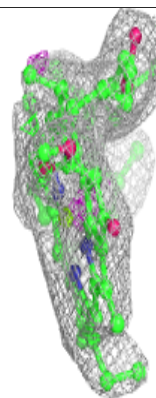
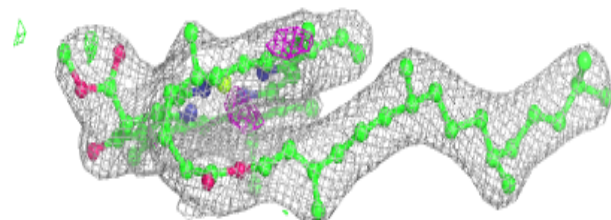
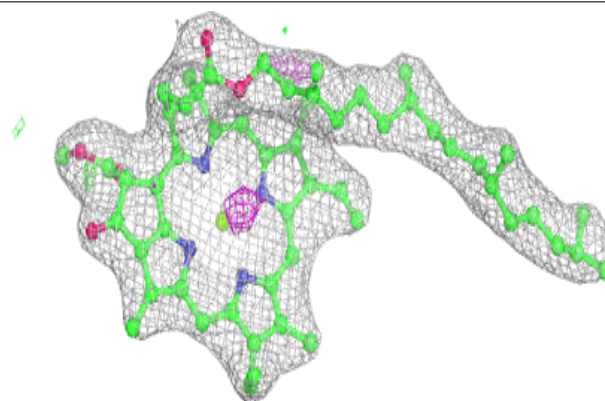


**Electron density around BCR c 515:**

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

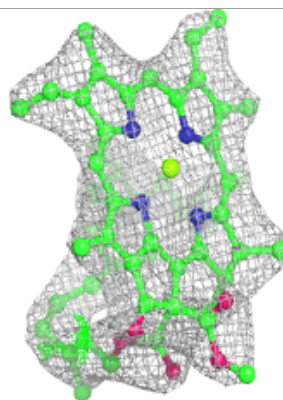
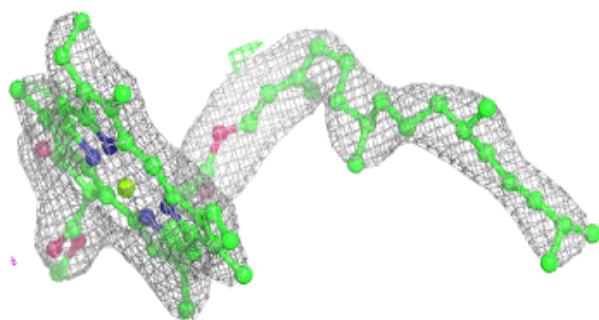
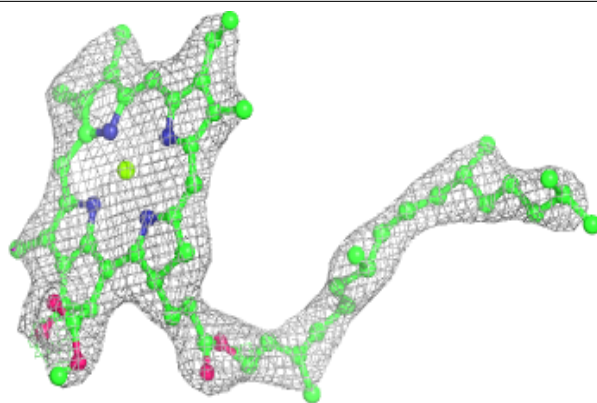
**Electron density around CLA C 502:**

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



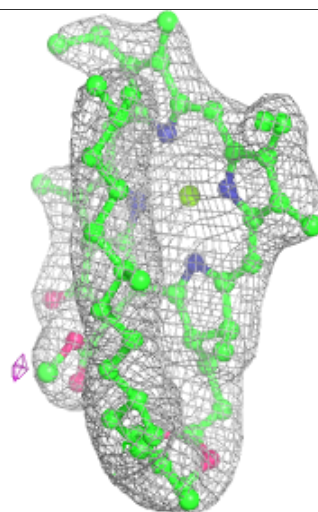
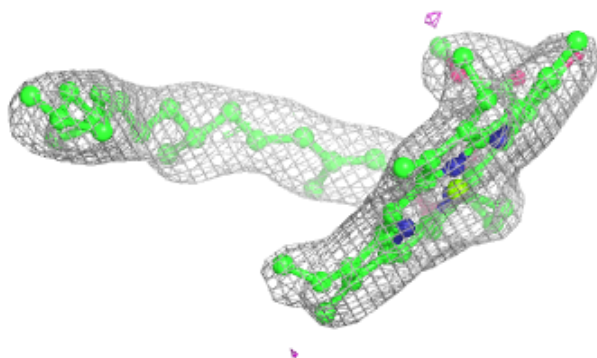
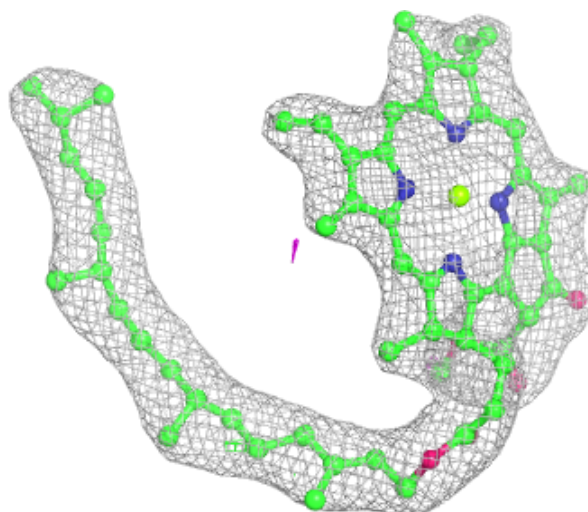
**Electron density around CLA c 511:**

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



**Electron density around CLA C 508:**

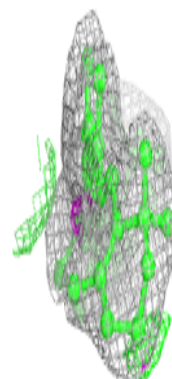
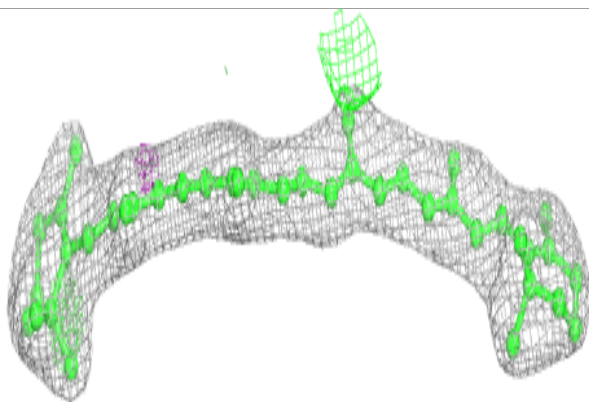
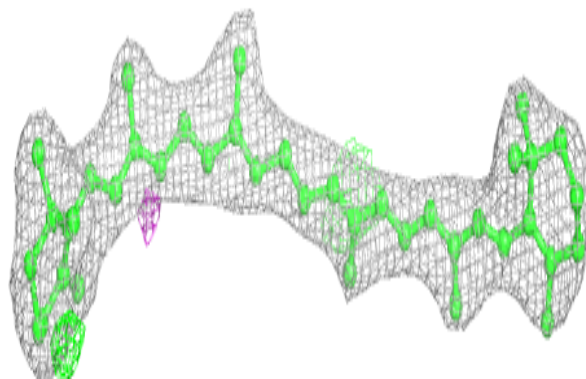
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



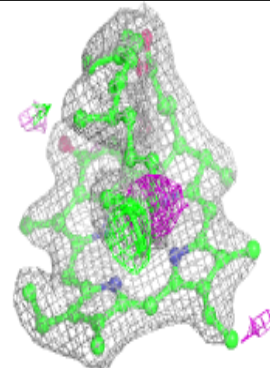
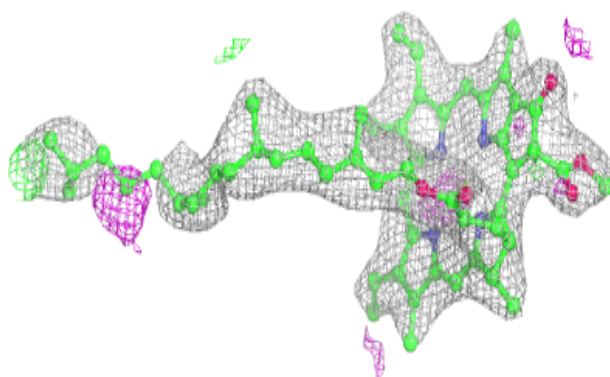
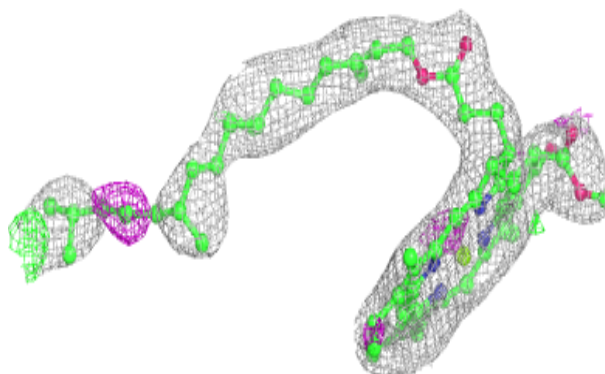


**Electron density around BCR t 102:**

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

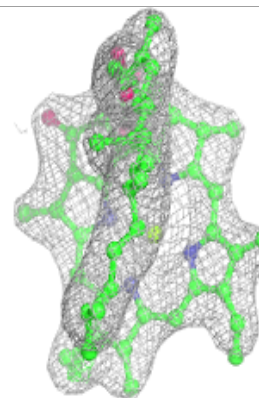
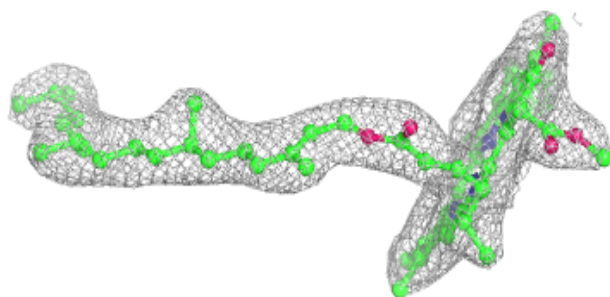
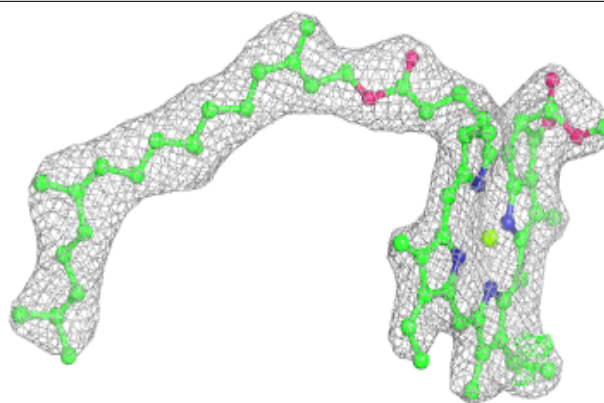
**Electron density around CLA C 505:**

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

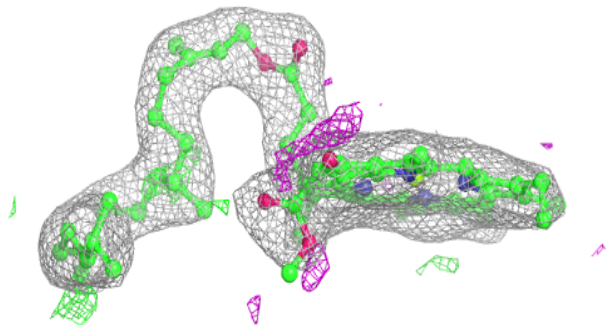
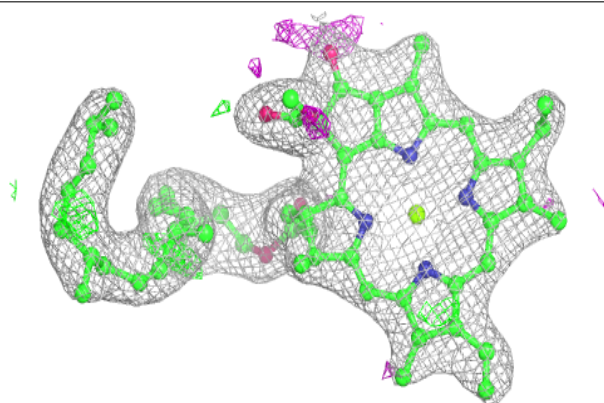


**Electron density around CLA b 609:**

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

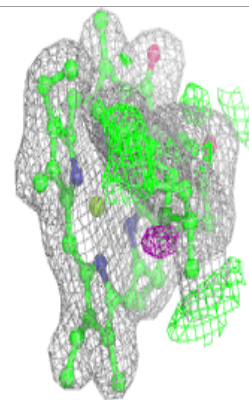
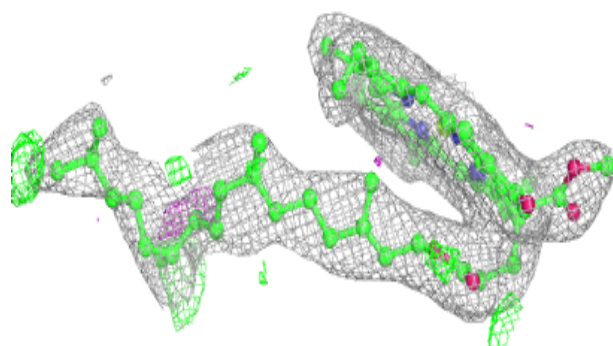
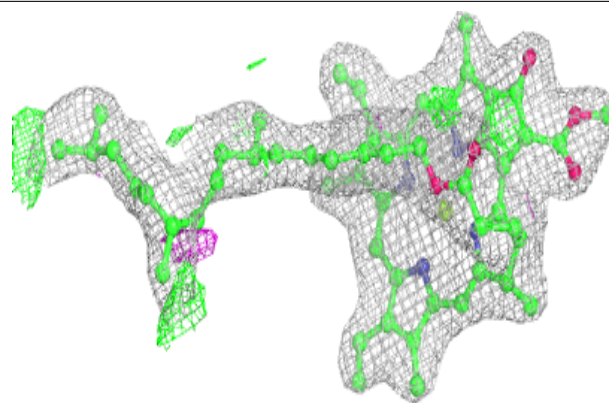
**Electron density around CLA b 612:**

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

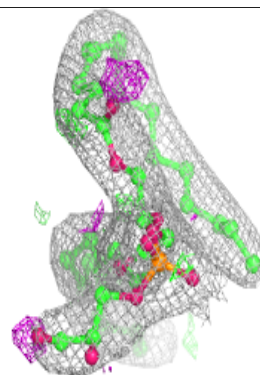
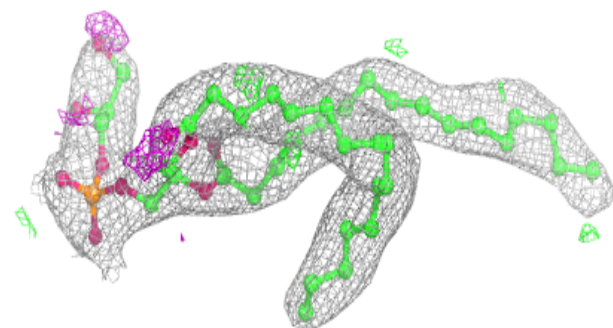
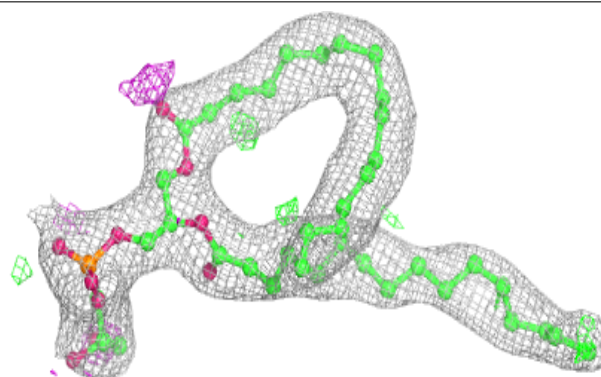


**Electron density around CLA b 614:**

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

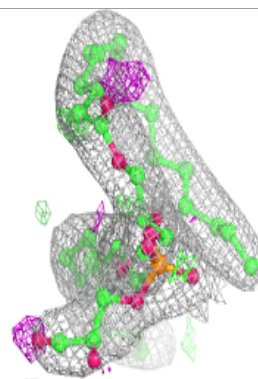
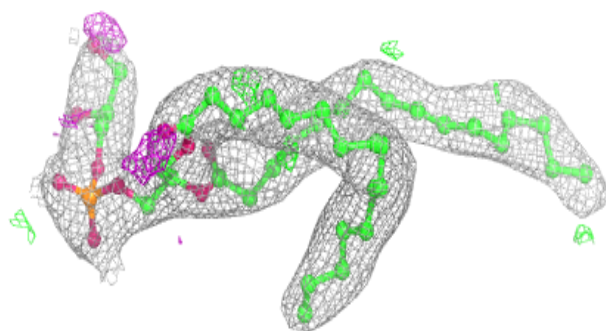
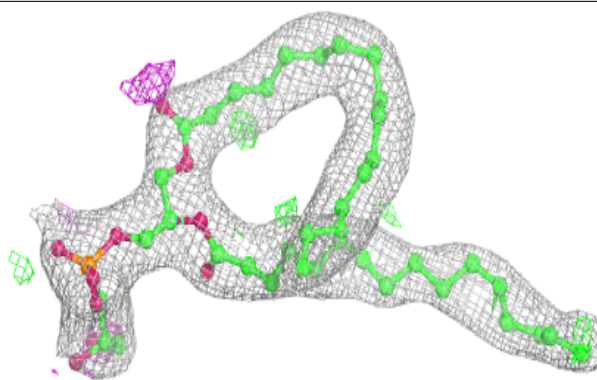
**Electron density around LHG A 419 (A):**

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

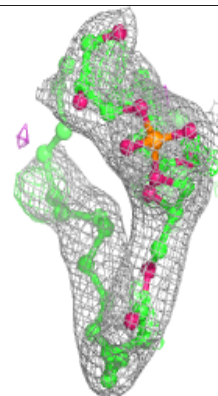
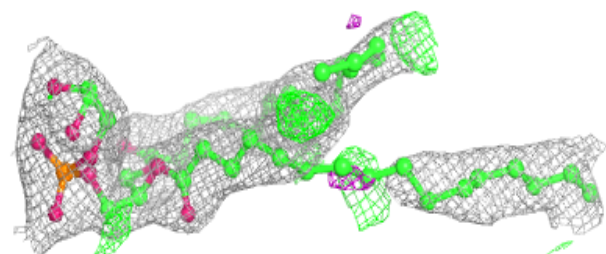
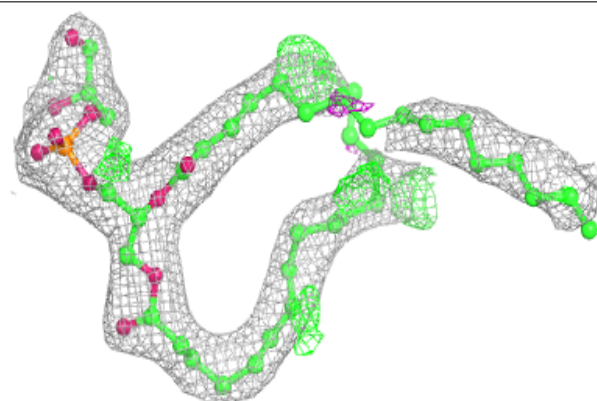


**Electron density around LHG A 419 (B):**

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

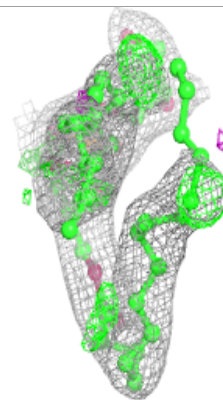
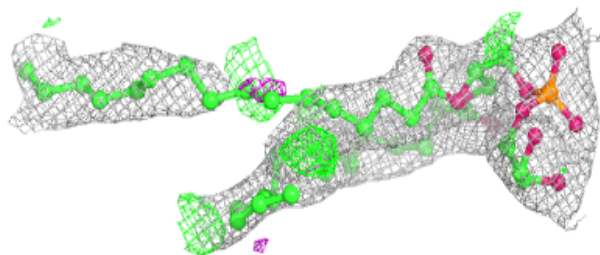
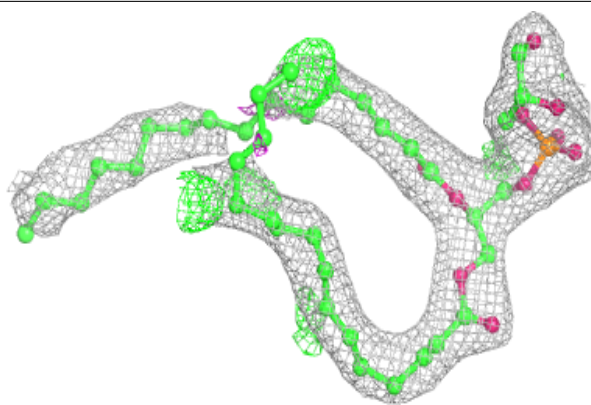
**Electron density around LHG D 407 (A):**

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

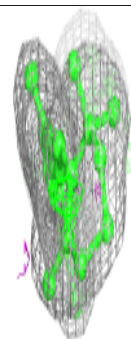
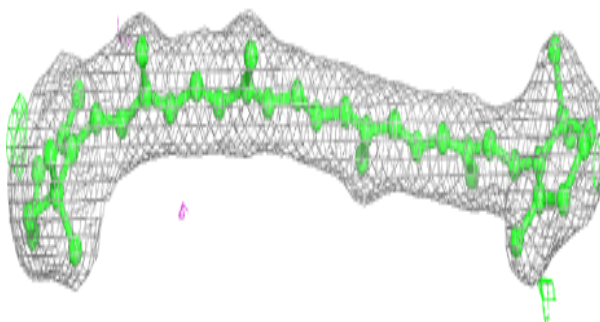
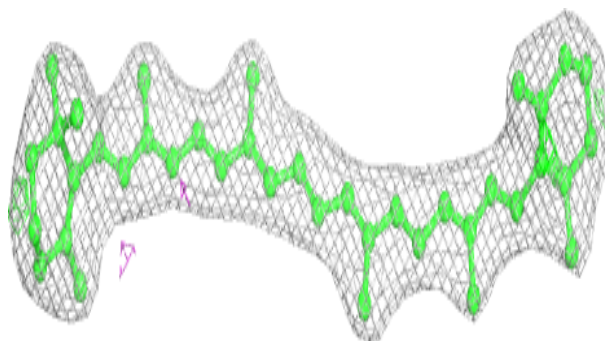


**Electron density around LHG D 407 (B):**

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

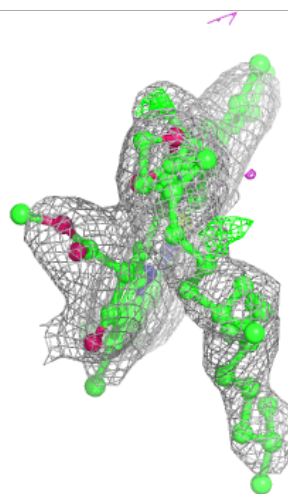
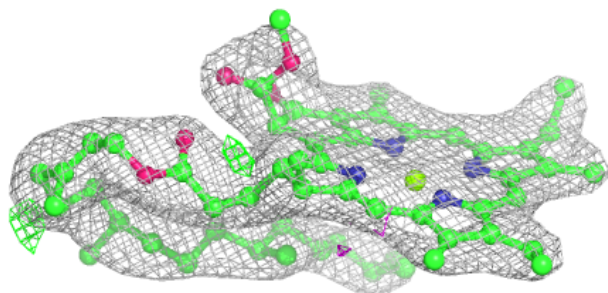
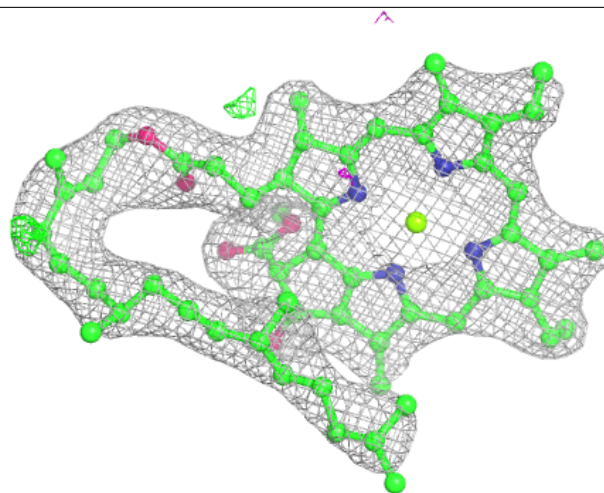
**Electron density around BCR B 619:**

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



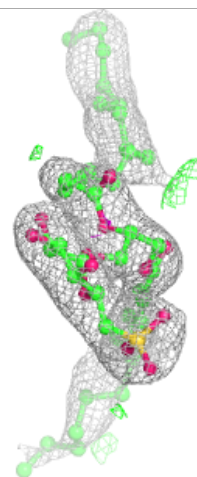
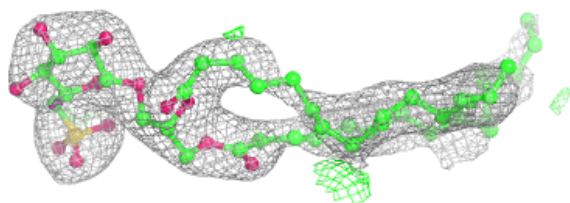
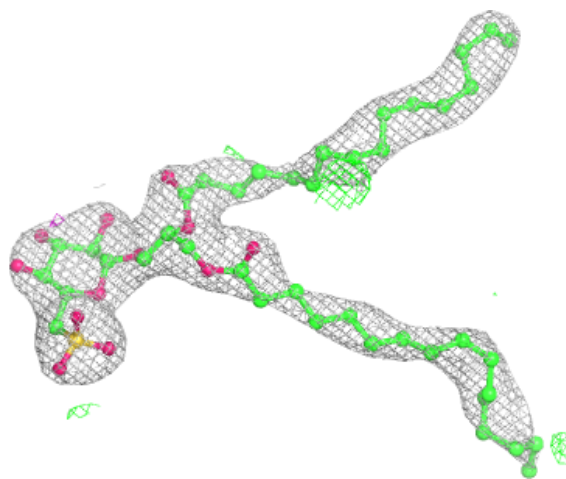
**Electron density around CLA C 510:**

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



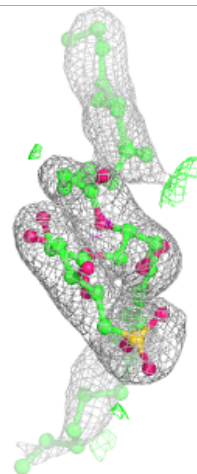
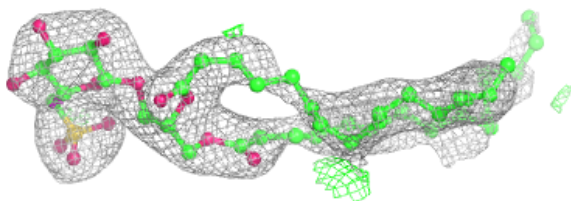
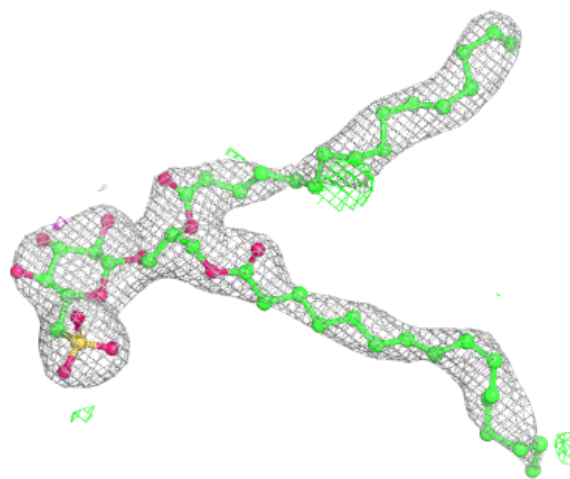
**Electron density around SQD a 410 (A):**

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



**Electron density around SQD a 410 (B):**

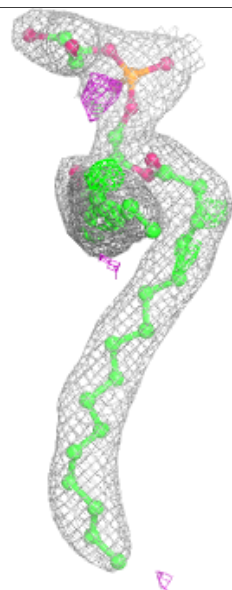
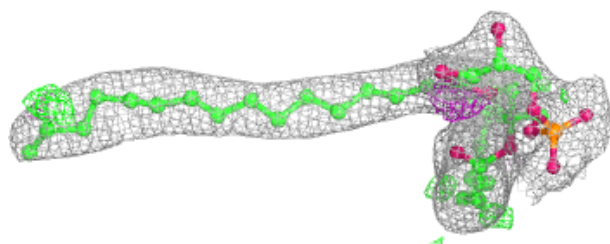
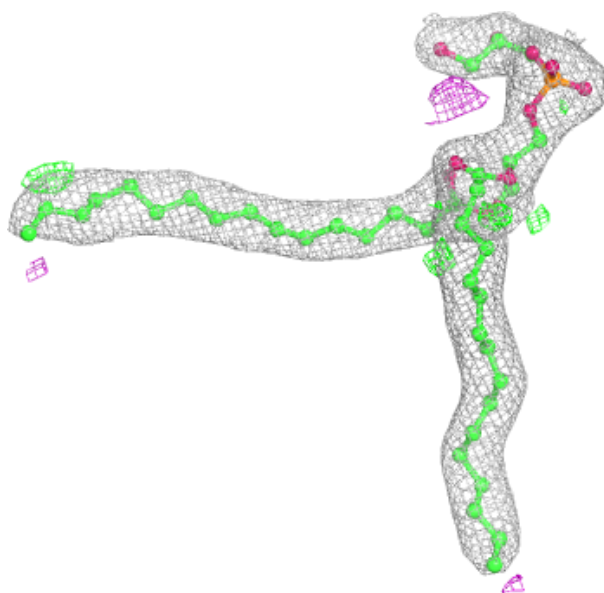
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





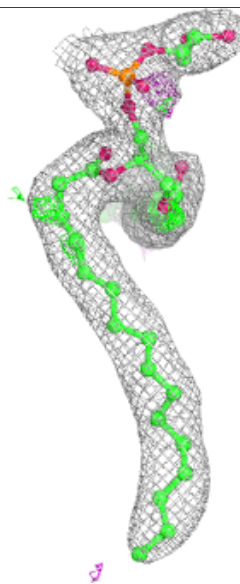
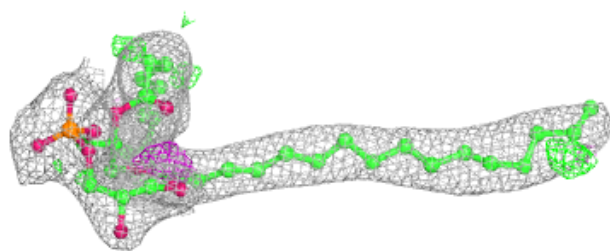
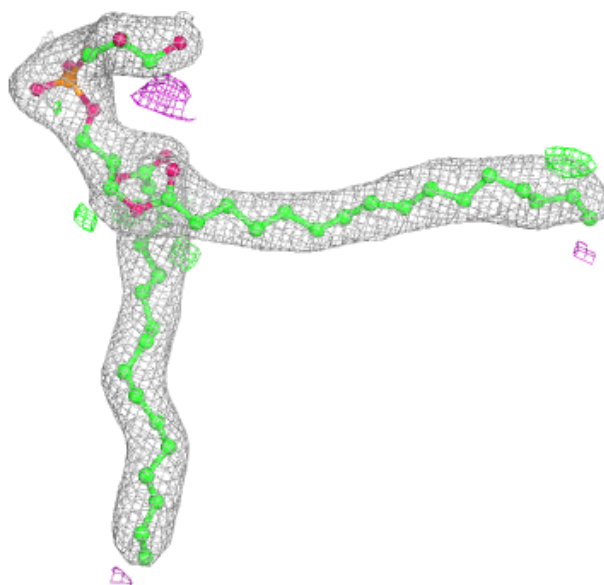
**Electron density around LHG b 629 (A):**

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



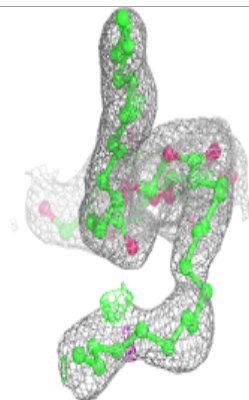
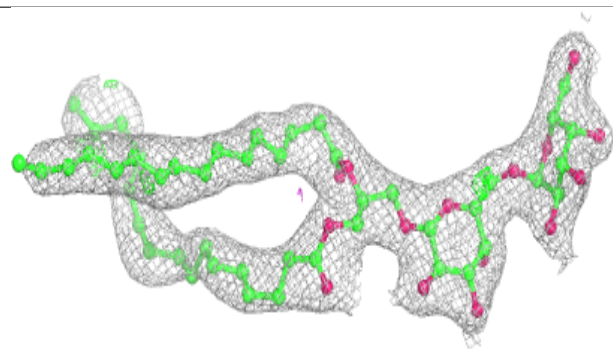
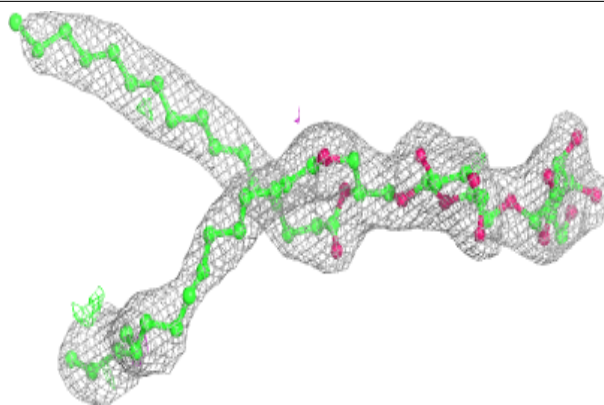
**Electron density around LHG b 629 (B):**

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

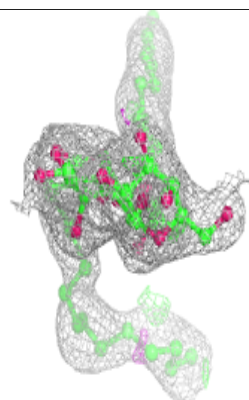
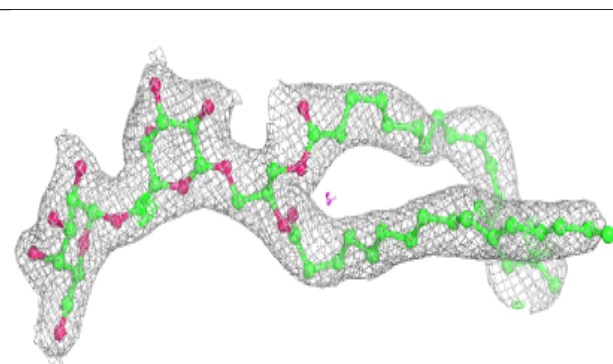
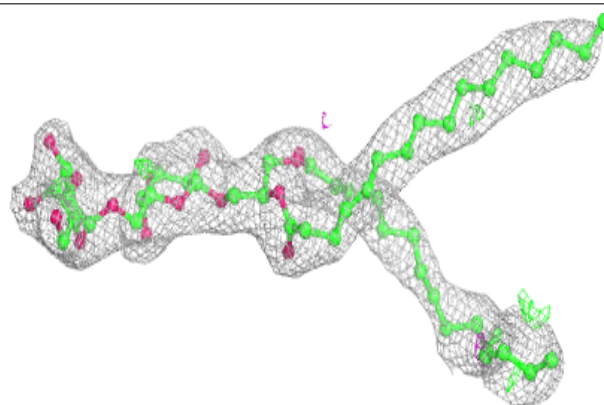


**Electron density around DGD c 516 (A):**

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

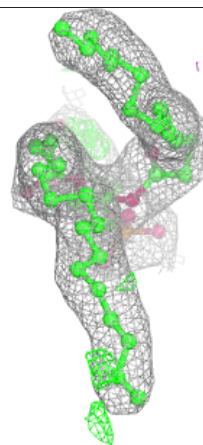
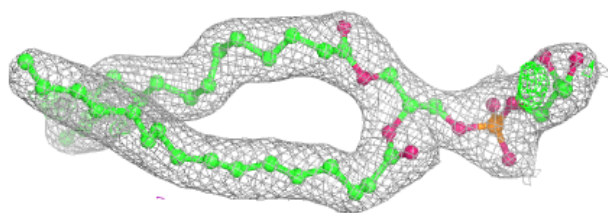
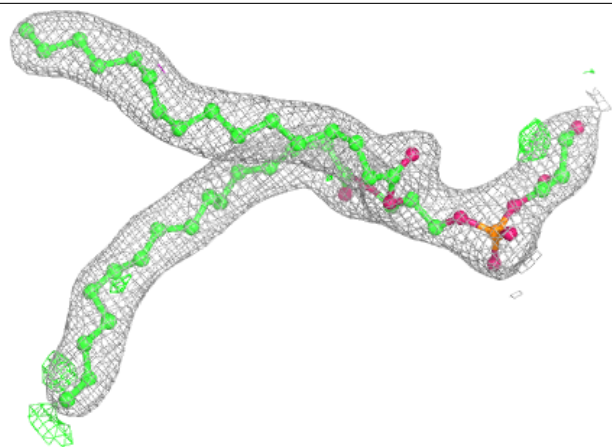
**Electron density around DGD c 516 (B):**

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



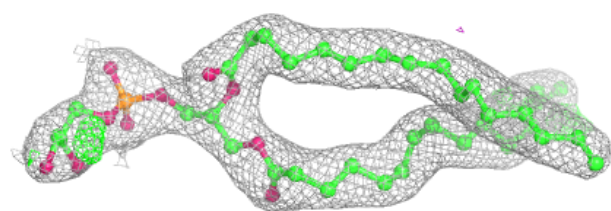
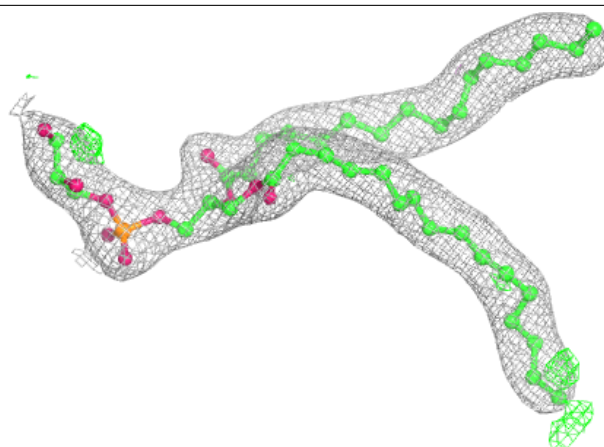
**Electron density around LHG d 406 (A):**

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

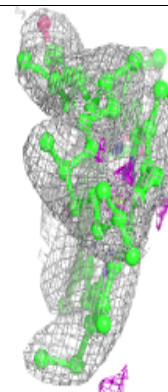
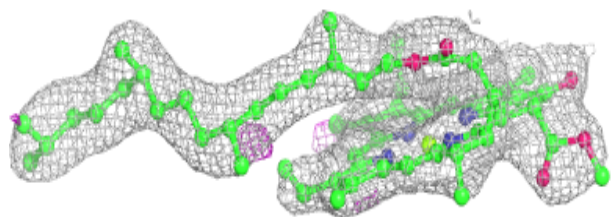
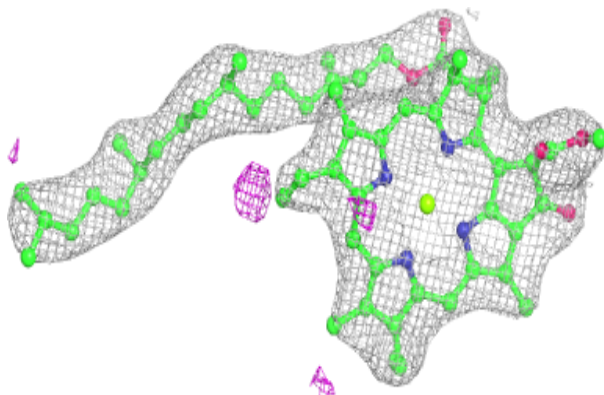


**Electron density around LHG d 406 (B):**

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

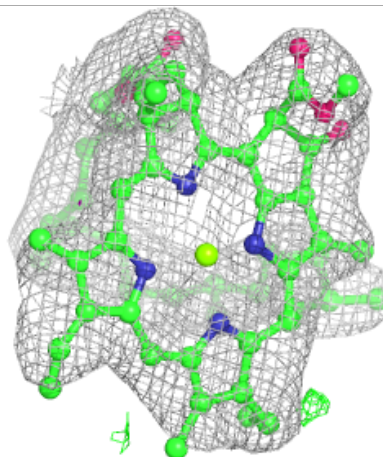
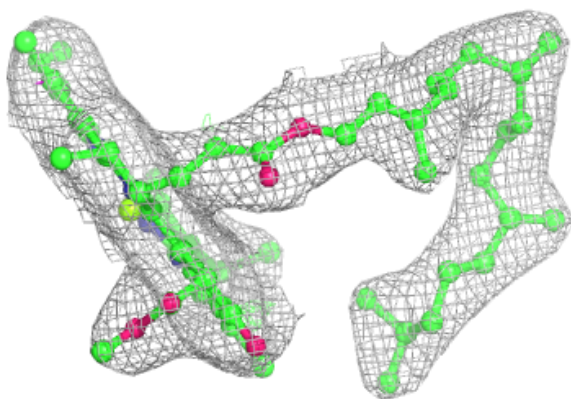
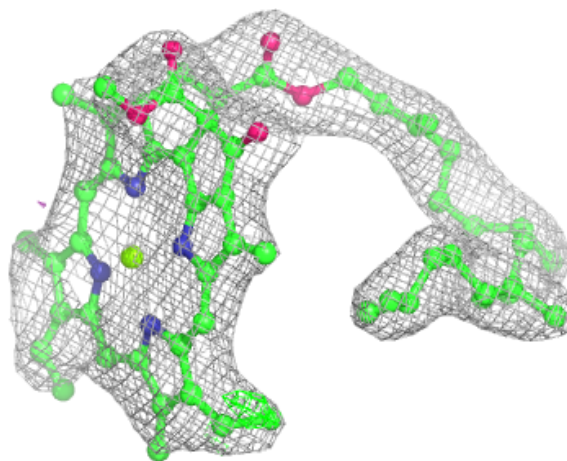
**Electron density around CLA c 501:**

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



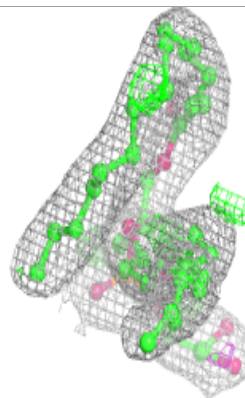
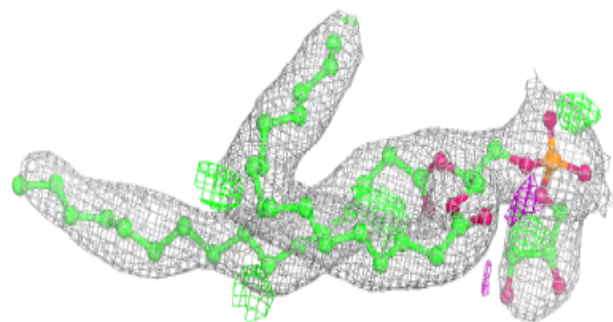
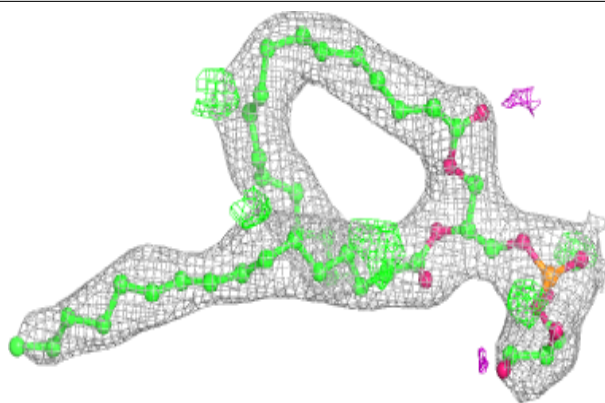
**Electron density around CLA c 503:**

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

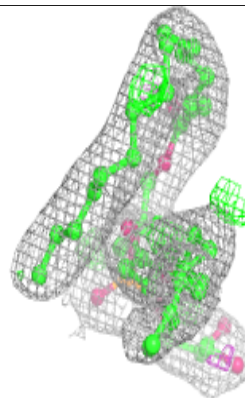
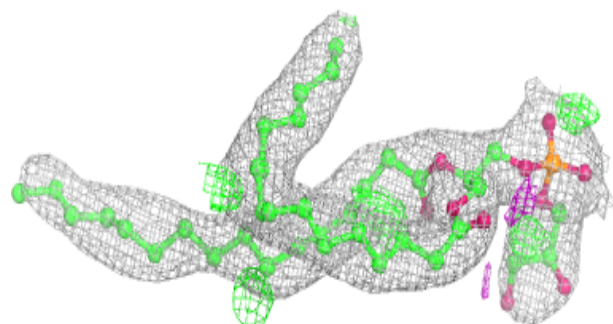
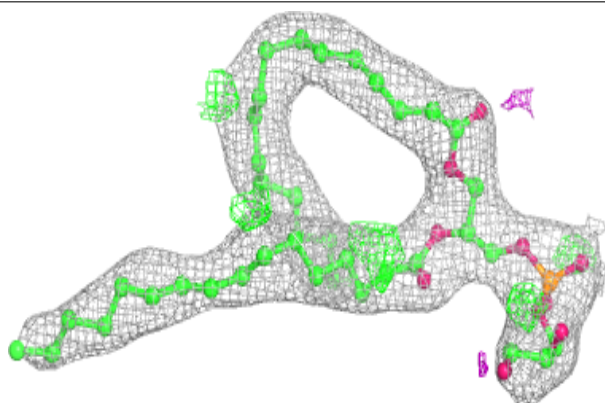


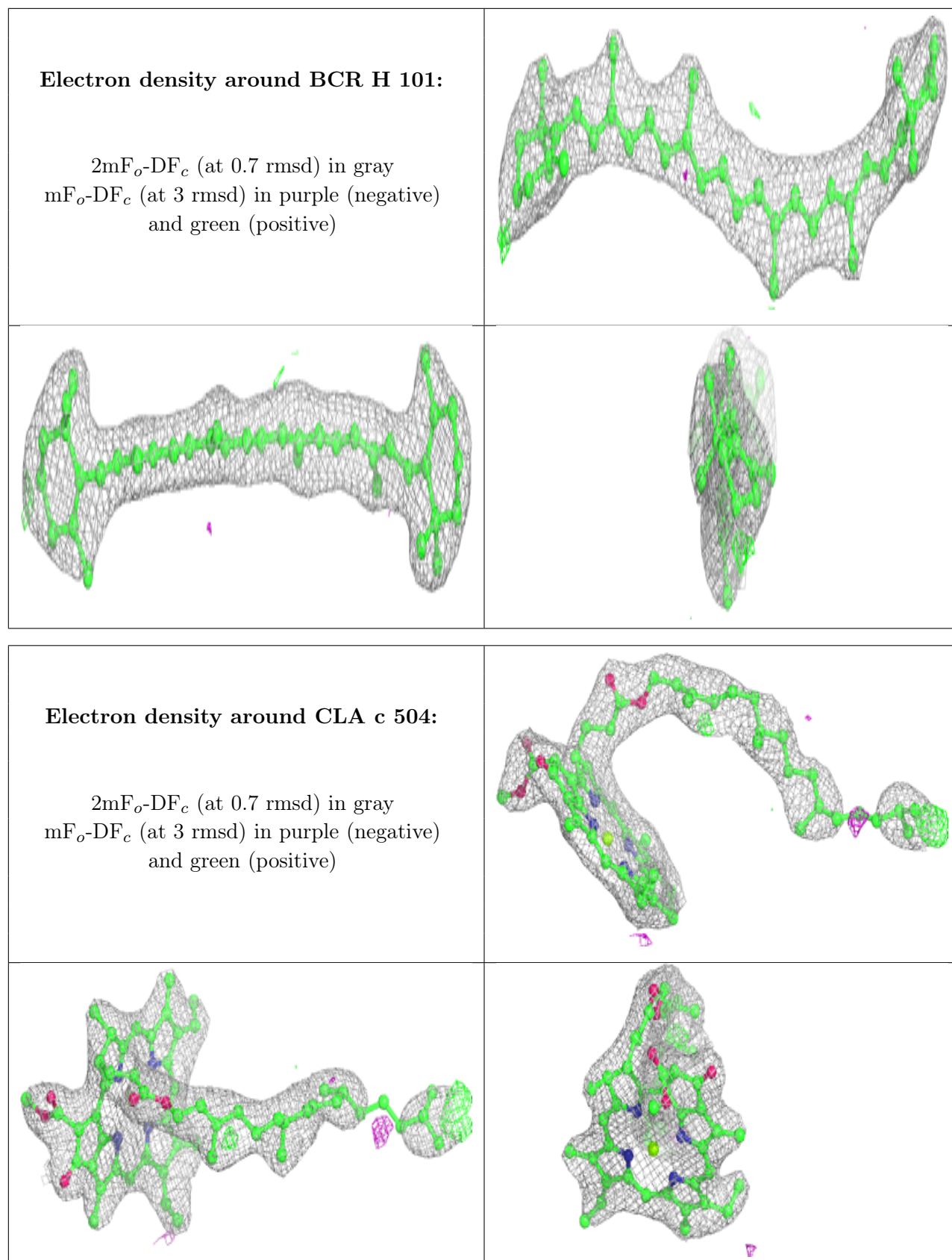
**Electron density around LHG d 413 (A):**

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

**Electron density around LHG d 413 (B):**

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

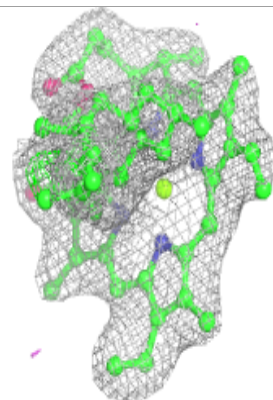
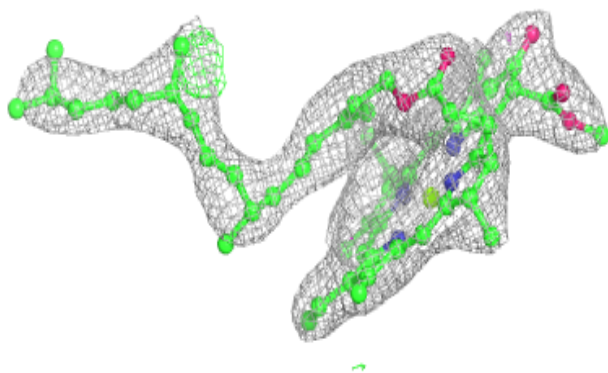
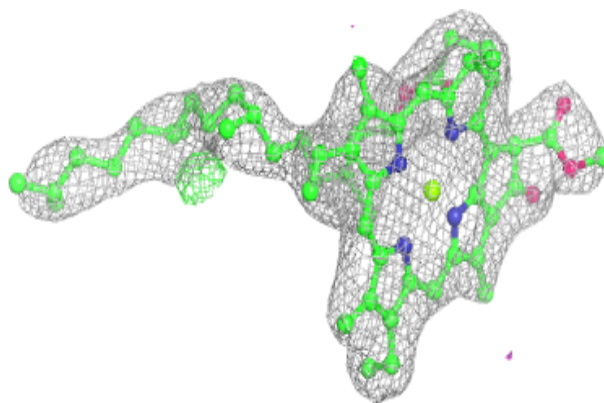




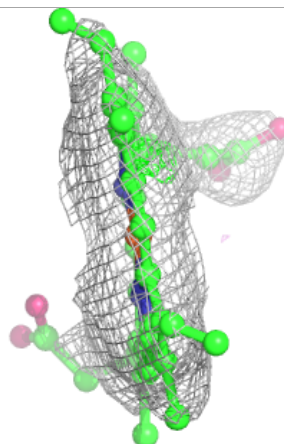
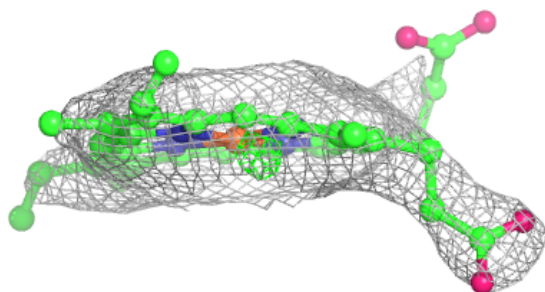
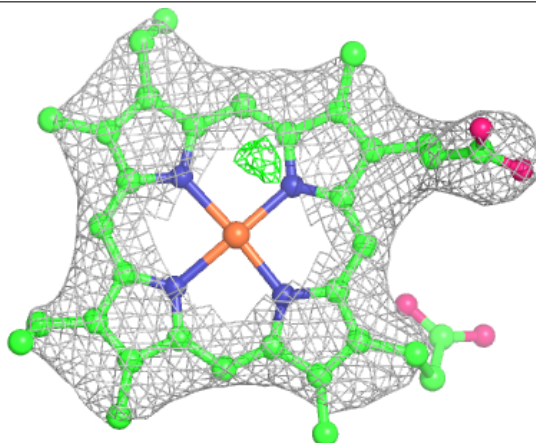


**Electron density around CLA c 505:**

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

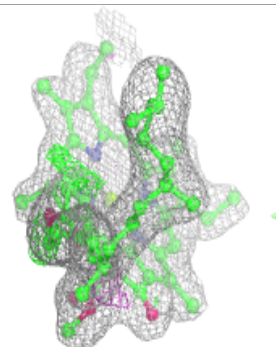
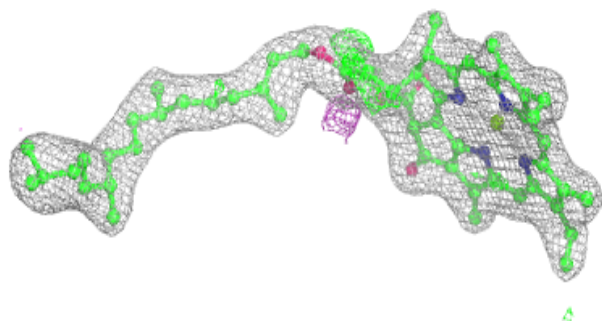
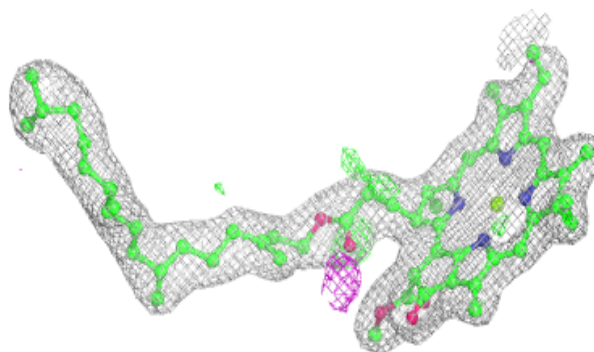
**Electron density around HEM f 101:**

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

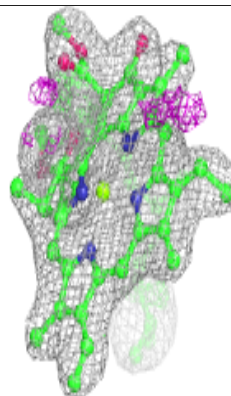
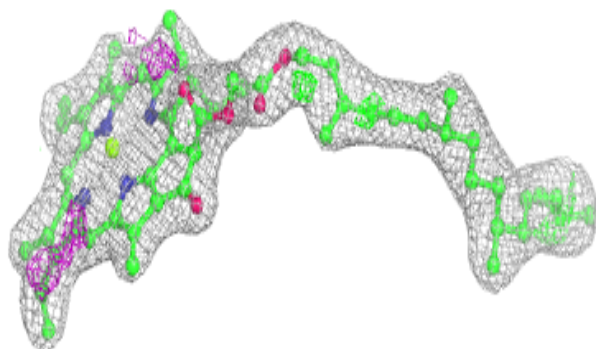
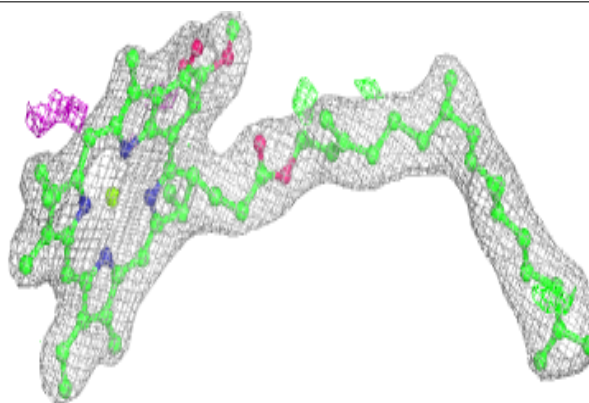


**Electron density around CLA A 404 (B):**

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

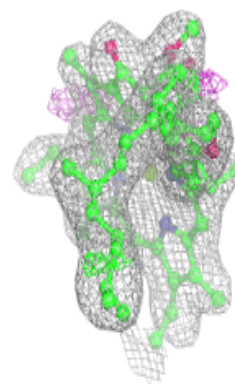
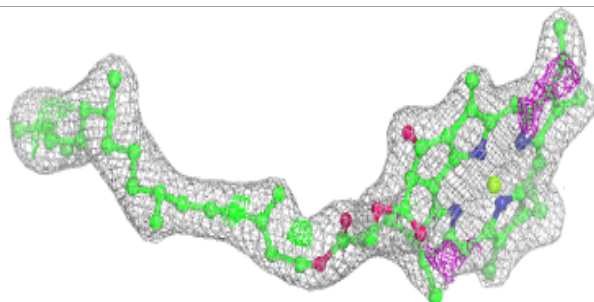
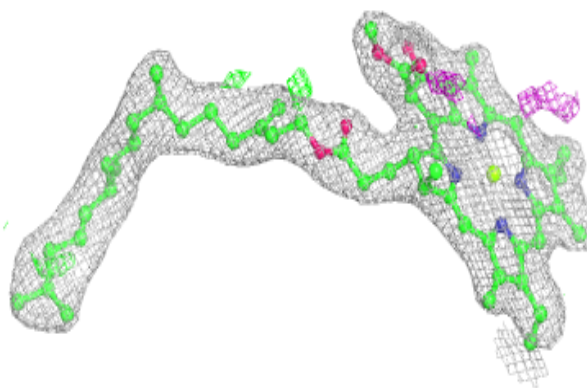
**Electron density around CLA a 404 (A):**

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

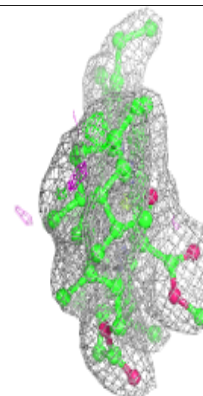
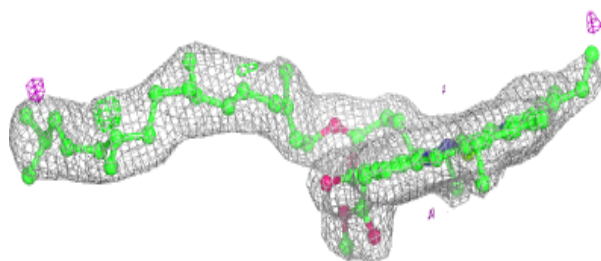
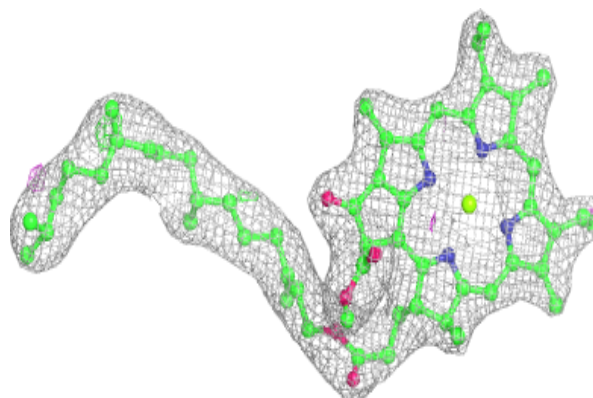


**Electron density around CLA a 404 (B):**

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

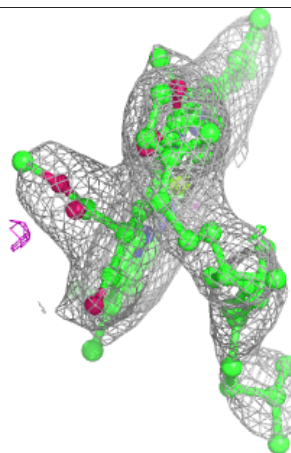
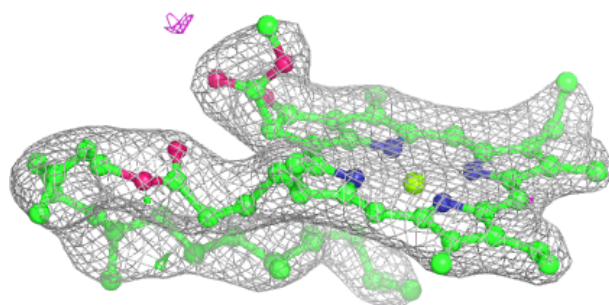
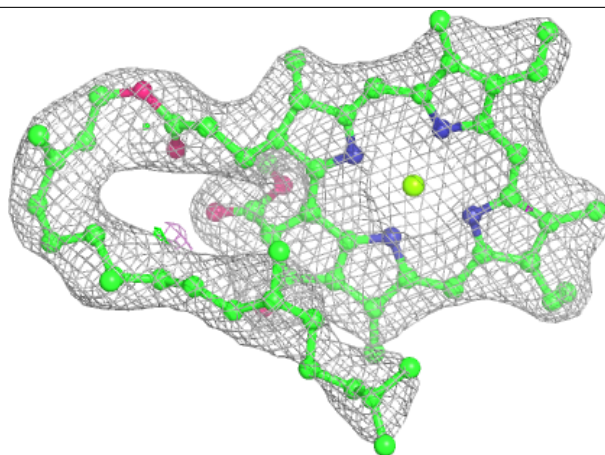
**Electron density around CLA B 602:**

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



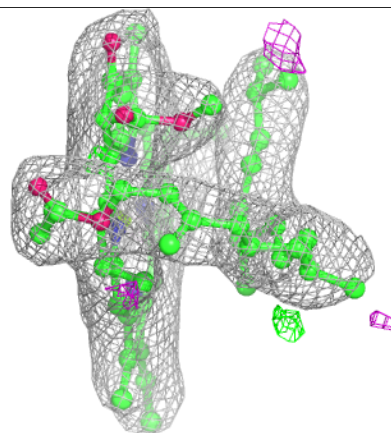
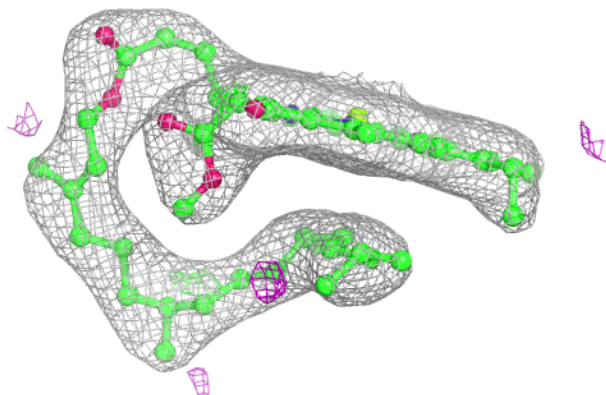
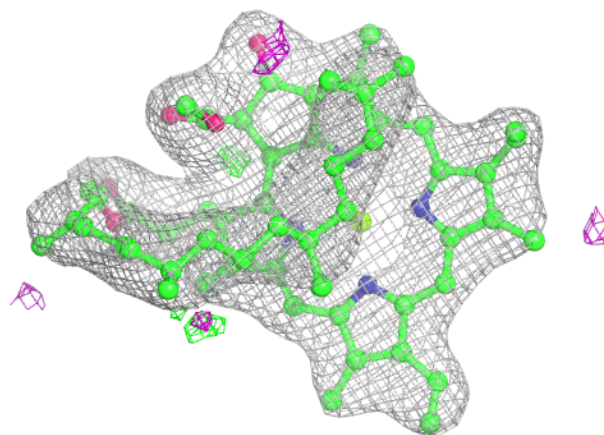
**Electron density around CLA c 509:**

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



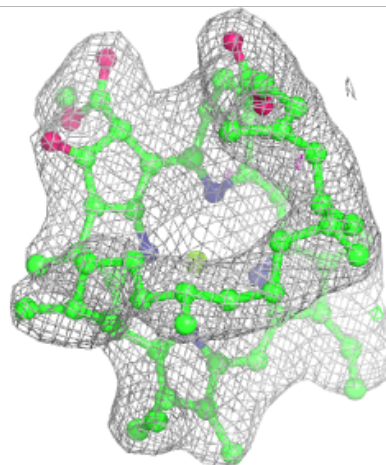
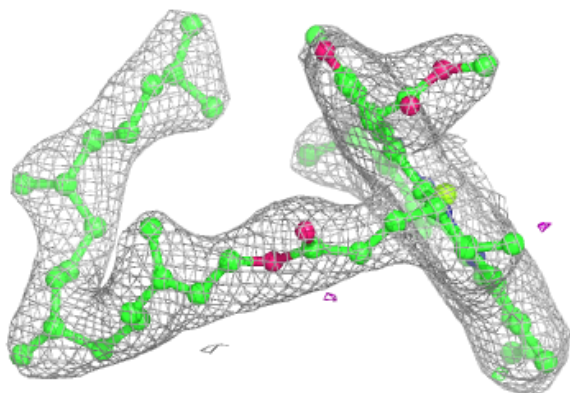
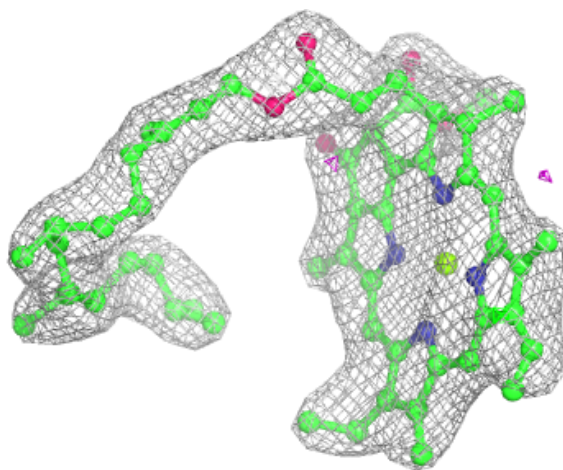
**Electron density around CLA c 510:**

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



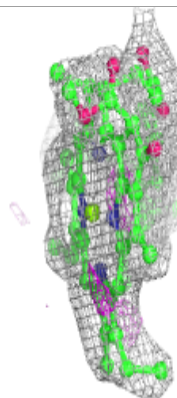
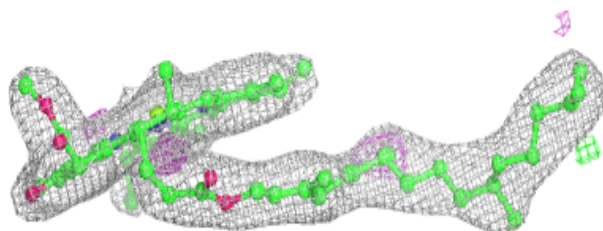
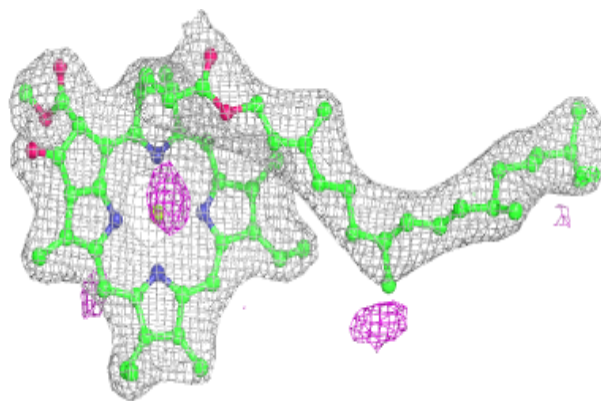
**Electron density around CLA C 504:**

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

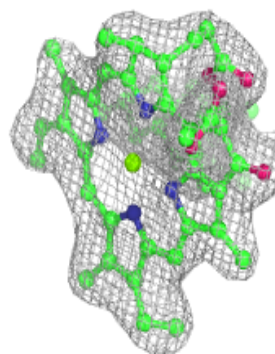
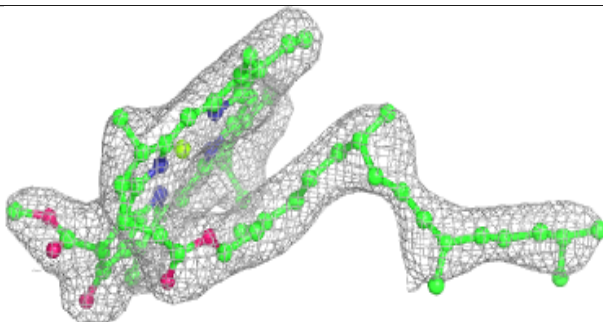
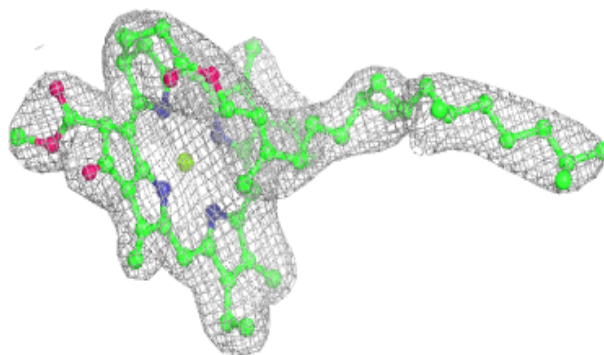


**Electron density around CLA B 603:**

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

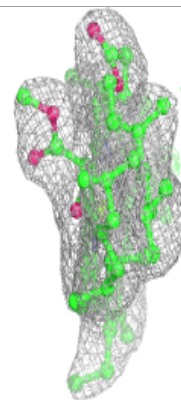
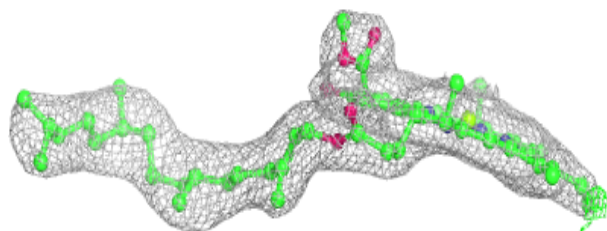
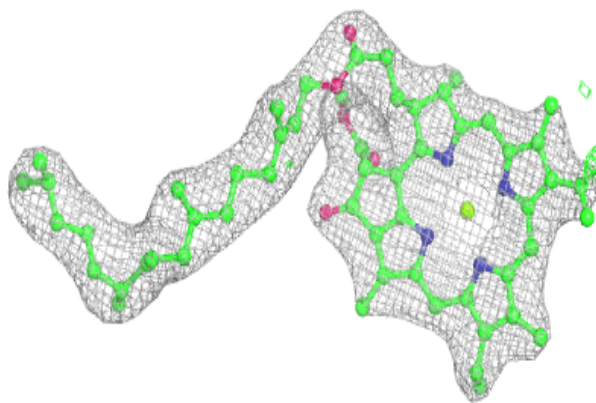
**Electron density around CLA C 506:**

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

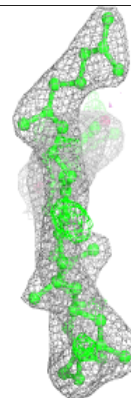
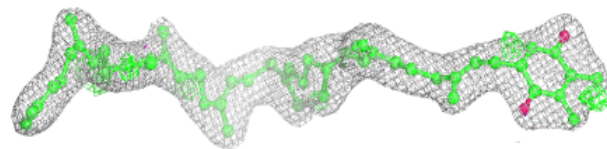
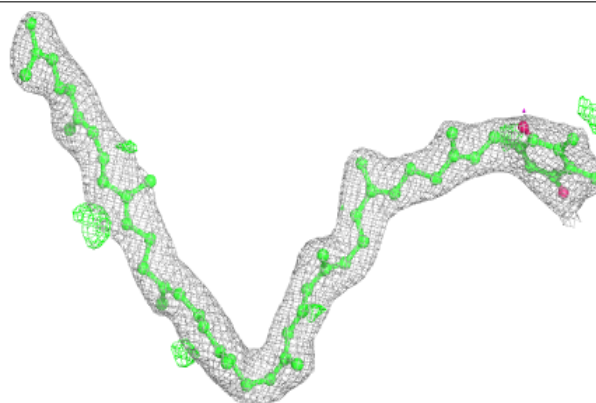


**Electron density around CLA b 602:**

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

**Electron density around PL9 D 405 (A):**

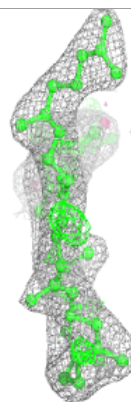
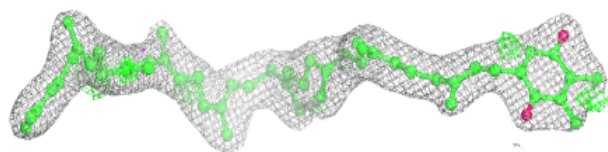
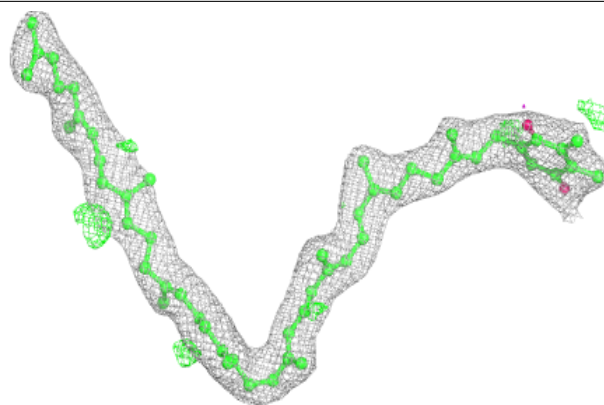
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





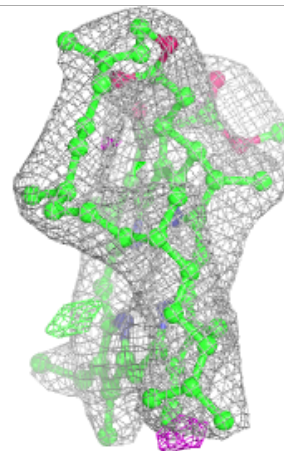
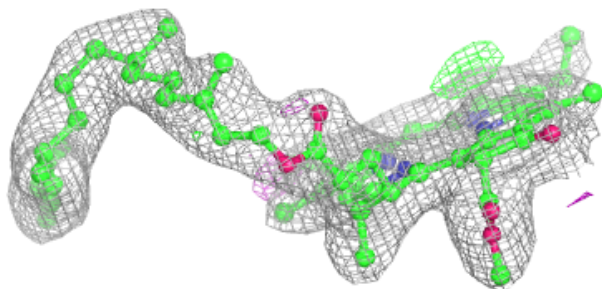
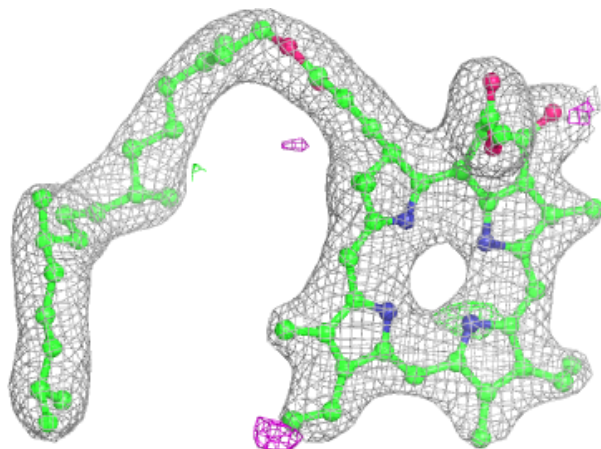
**Electron density around PL9 D 405 (B):**

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



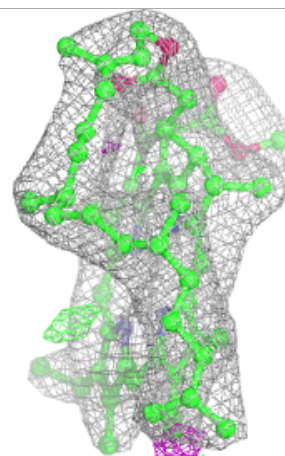
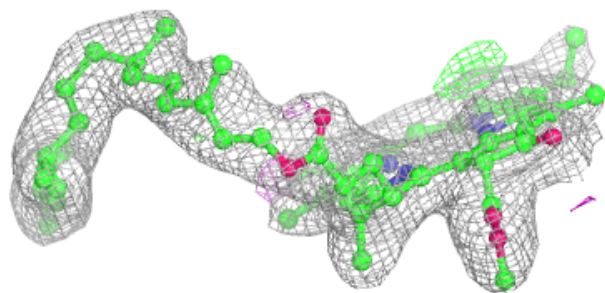
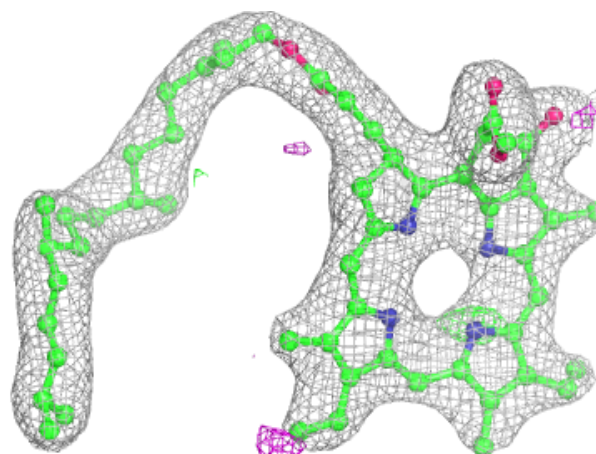
**Electron density around PHO a 415 (A):**

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



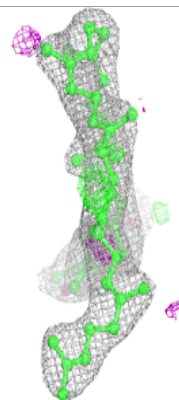
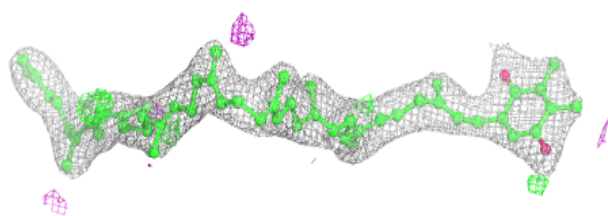
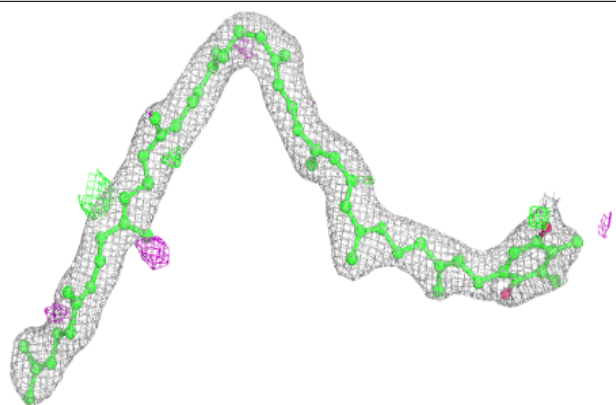
**Electron density around PHO a 415 (B):**

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

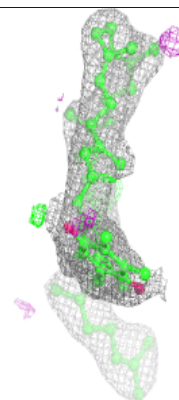
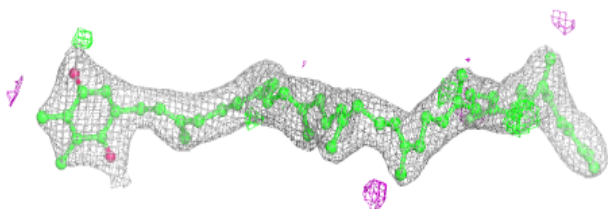
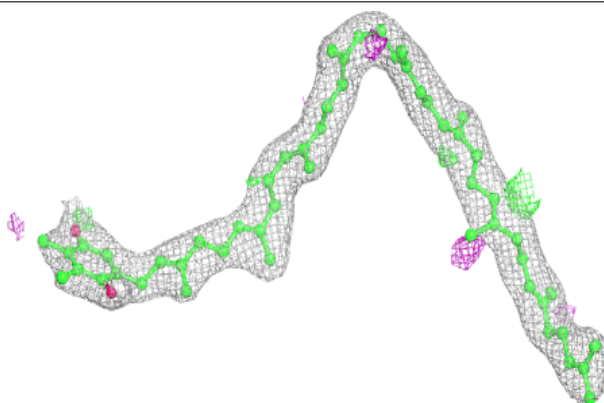


**Electron density around PL9 d 405 (A):**

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

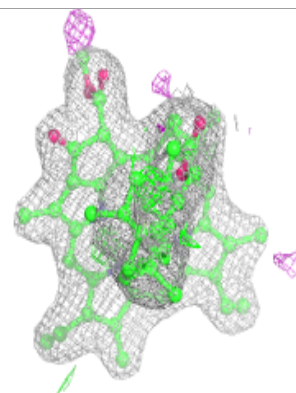
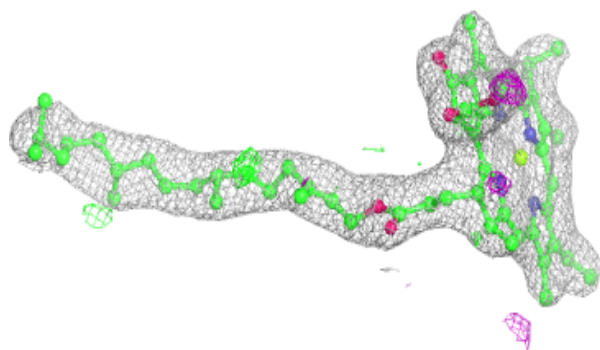
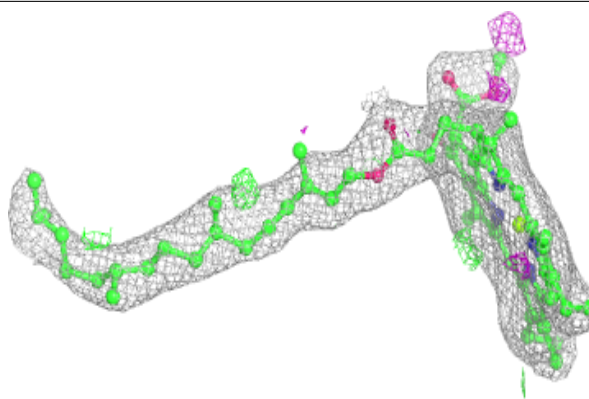
**Electron density around PL9 d 405 (B):**

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

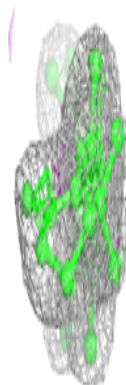
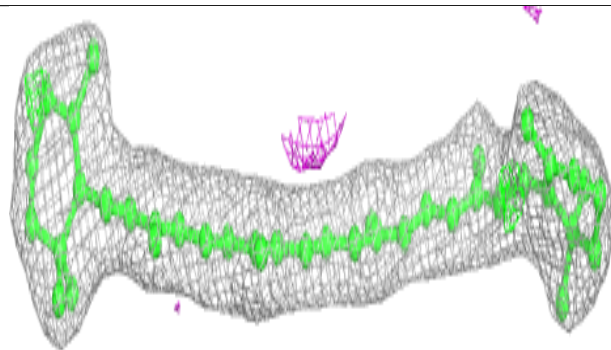
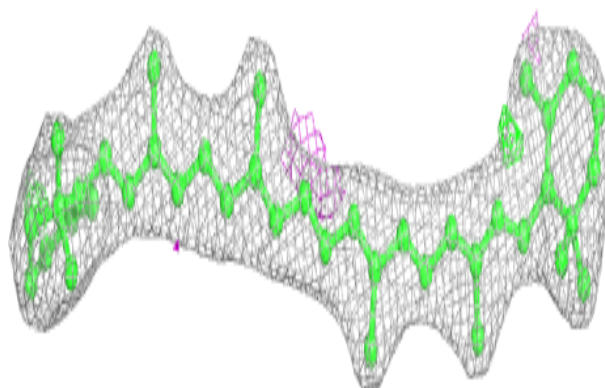


**Electron density around CLA b 604:**

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

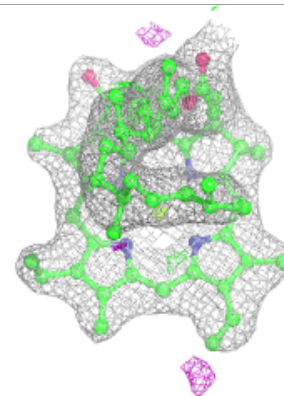
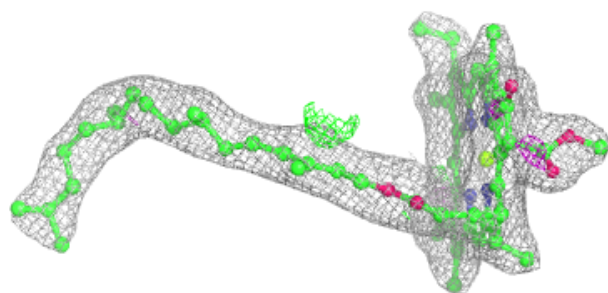
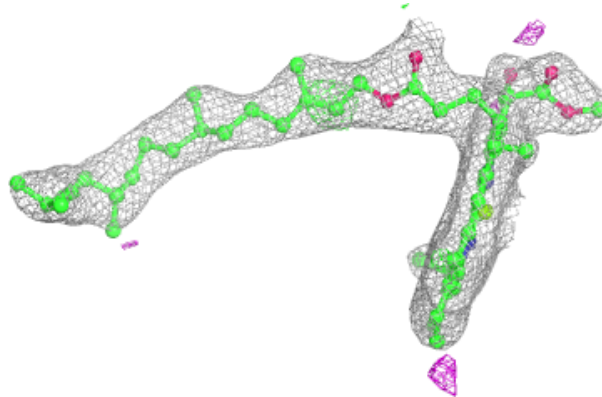
**Electron density around BCR B 617:**

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

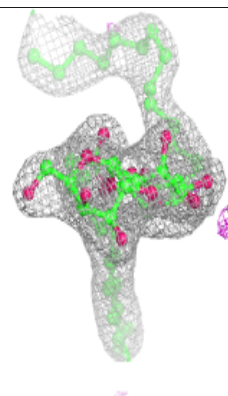
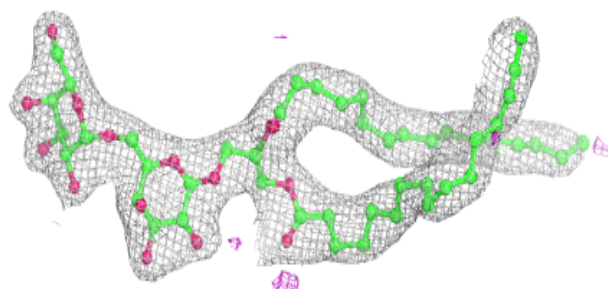
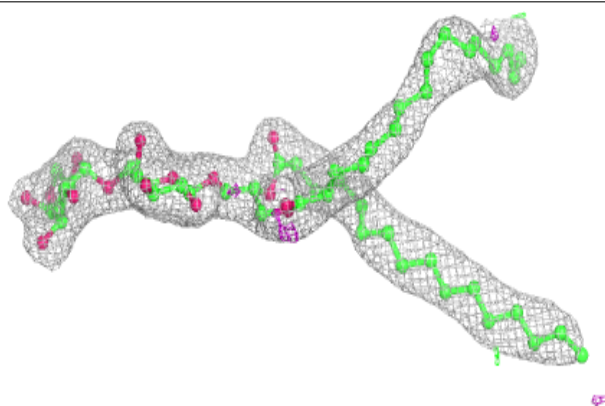


**Electron density around CLA b 605:**

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

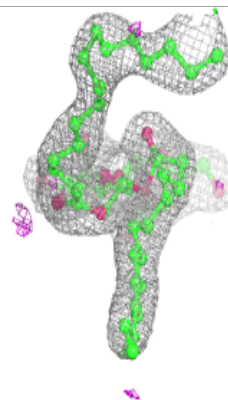
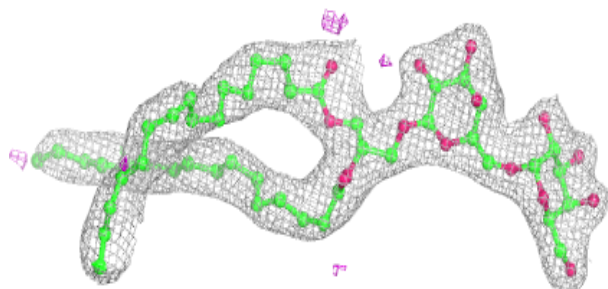
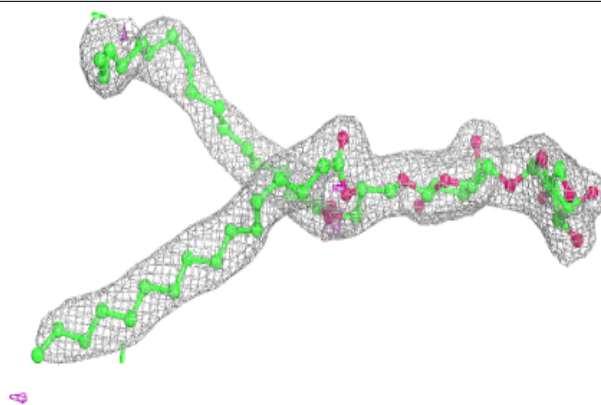
**Electron density around DGD C 517 (A):**

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

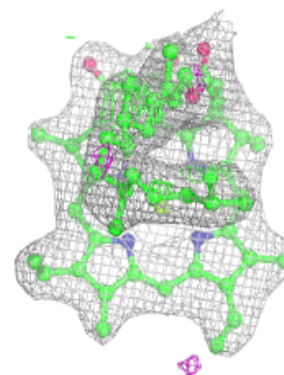
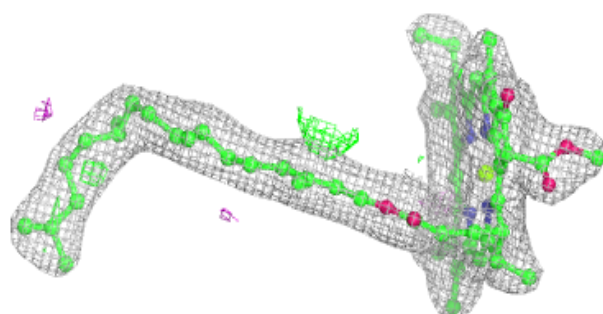
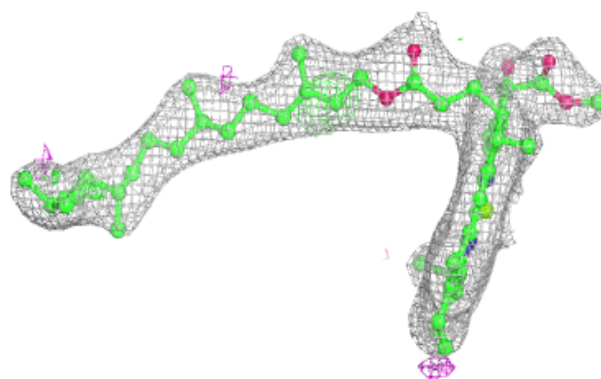


**Electron density around DGD C 517 (B):**

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

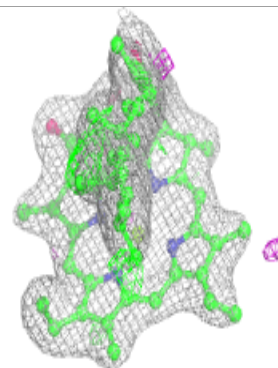
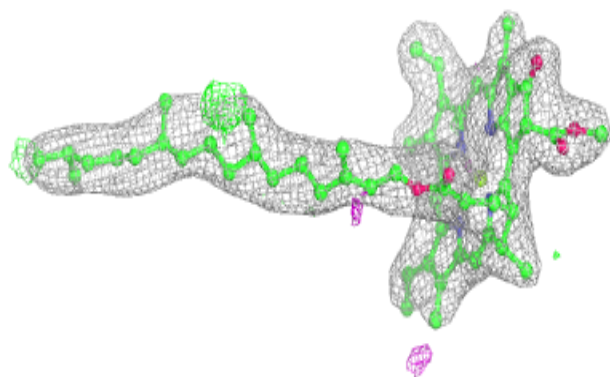
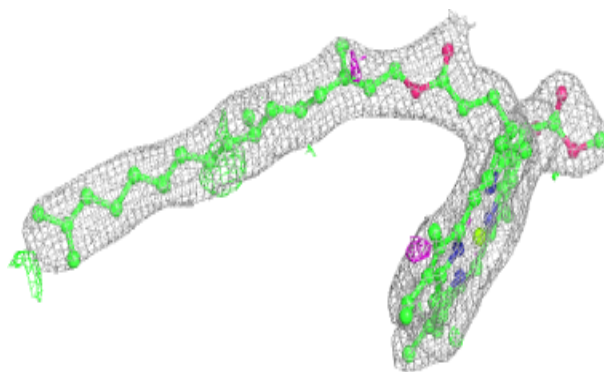
**Electron density around CLA B 605:**

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

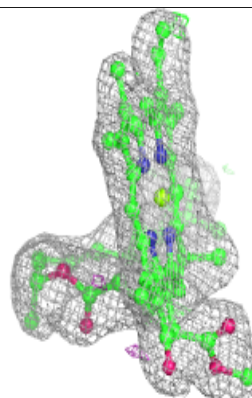
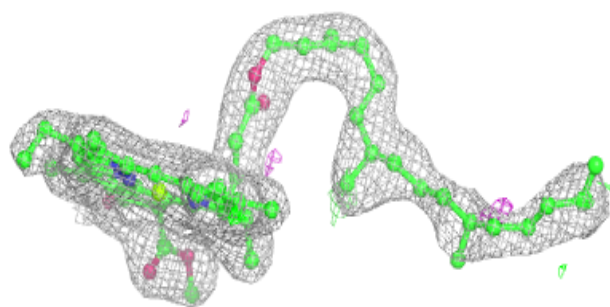
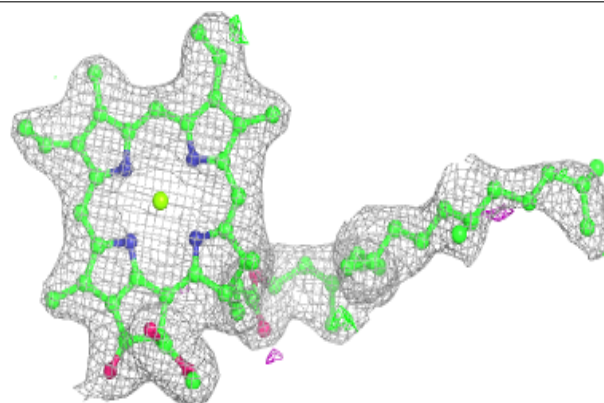


**Electron density around CLA b 607:**

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

**Electron density around CLA A 406 (A):**

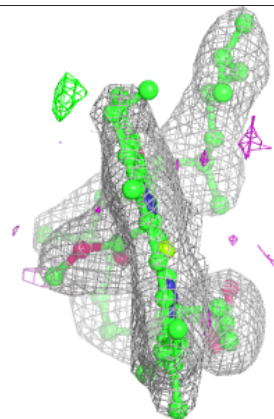
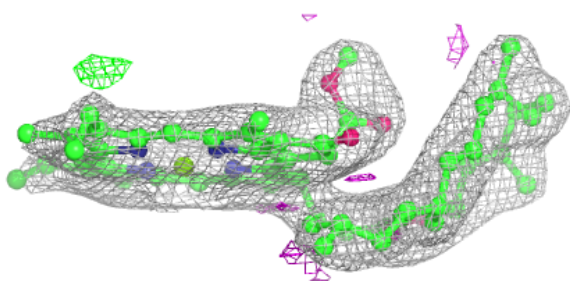
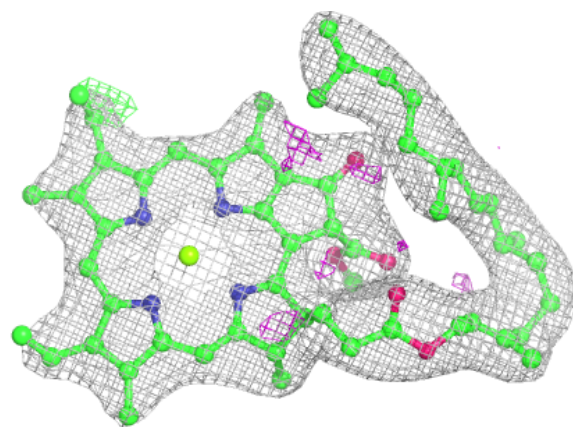
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





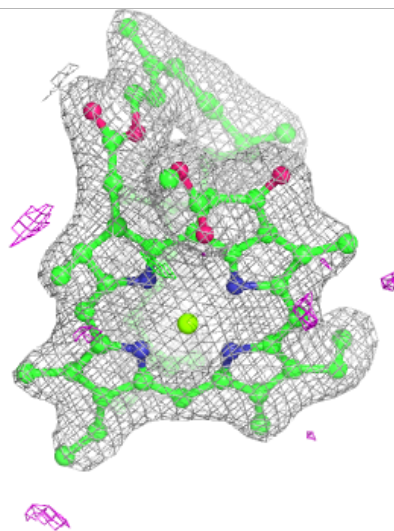
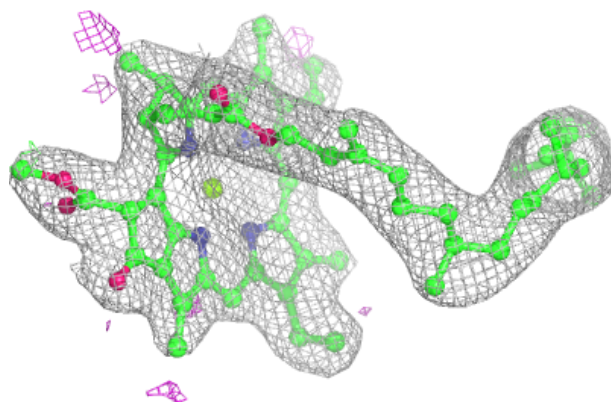
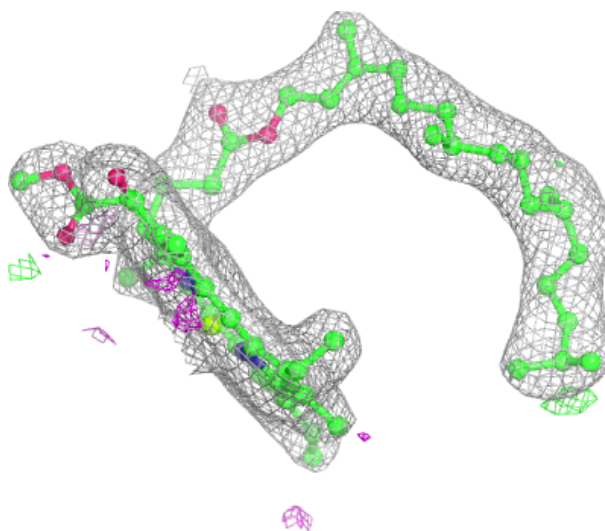
**Electron density around CLA b 610:**

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



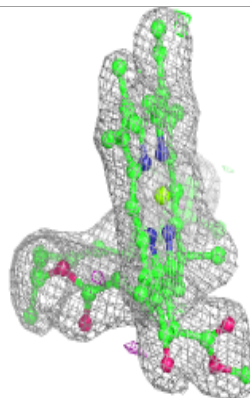
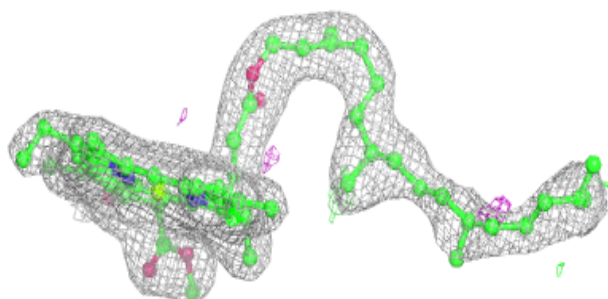
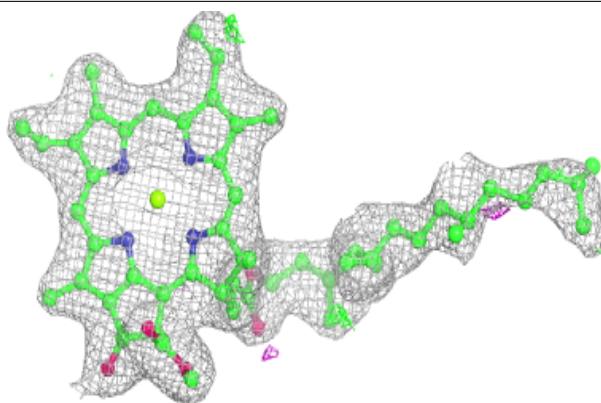
**Electron density around CLA b 611:**

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

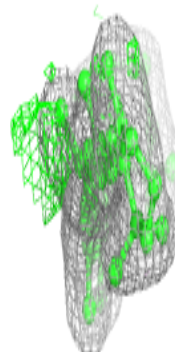
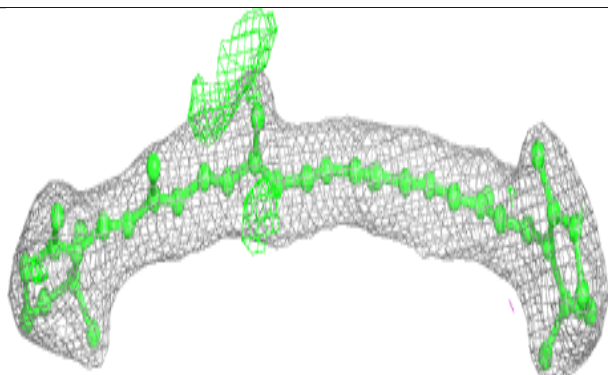
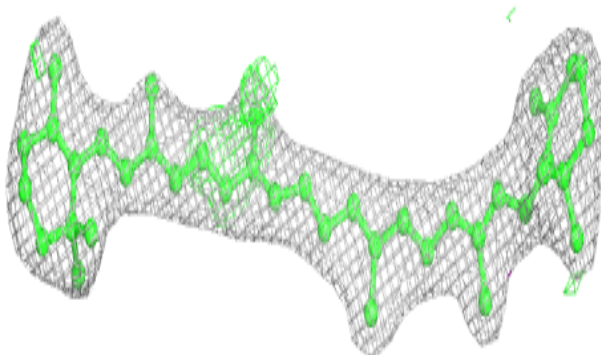


**Electron density around CLA A 406 (B):**

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

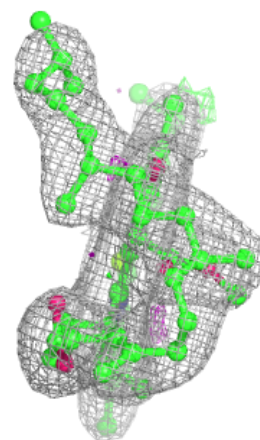
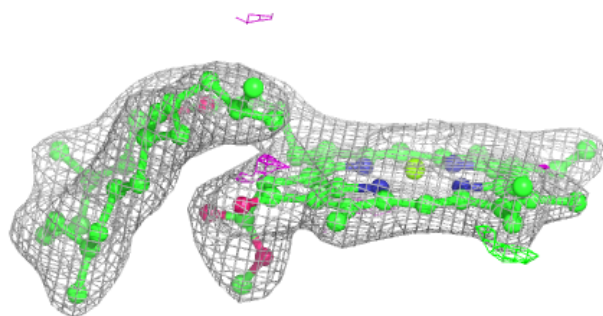
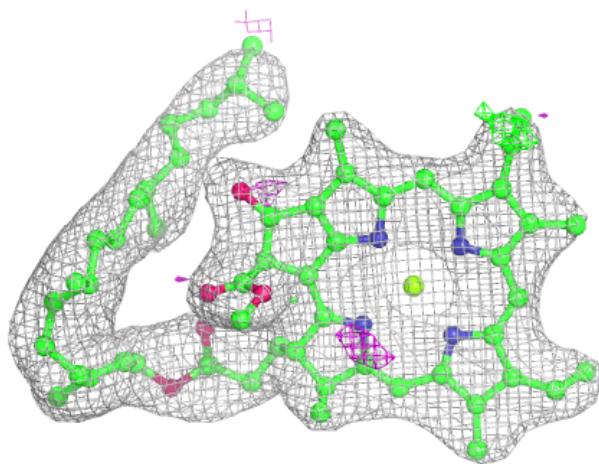
**Electron density around BCR T 101:**

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



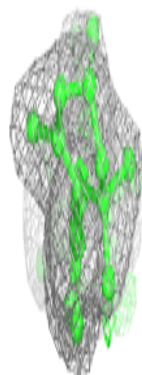
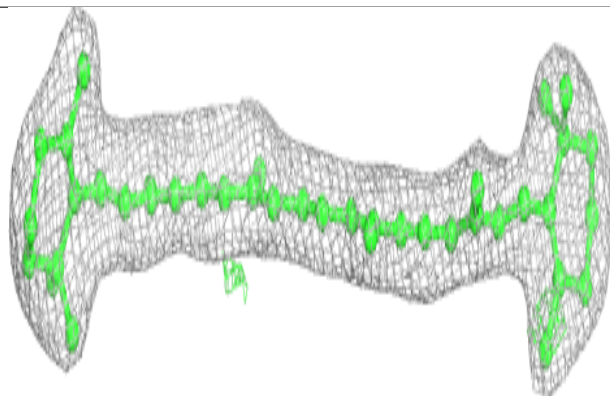
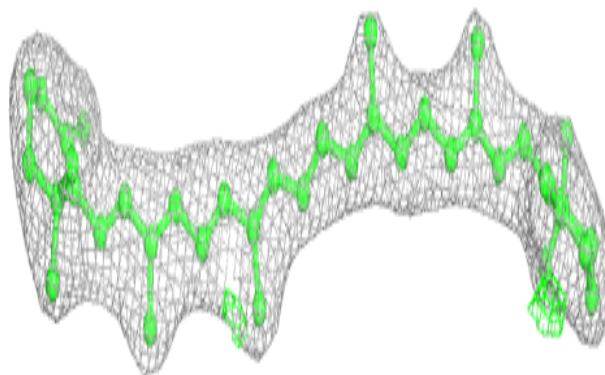
**Electron density around CLA B 610:**

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



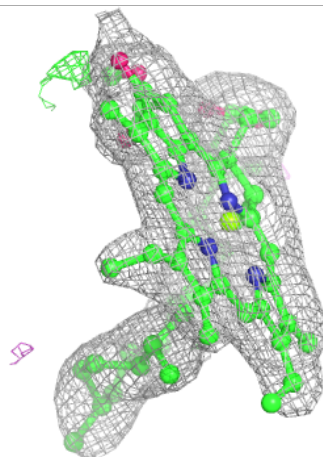
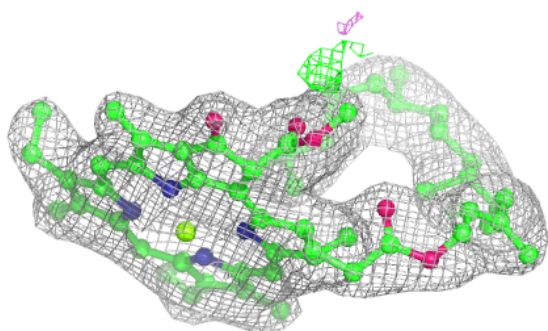
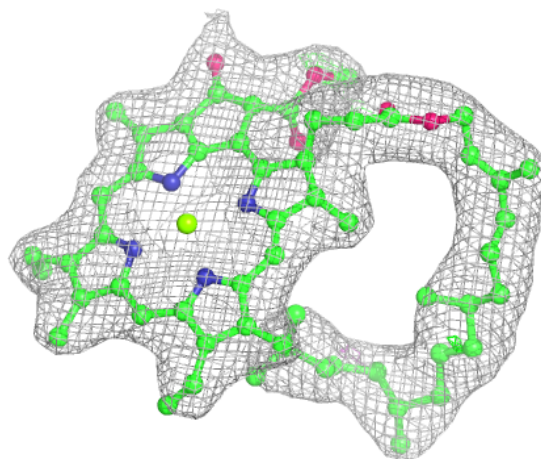
**Electron density around BCR a 409:**

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



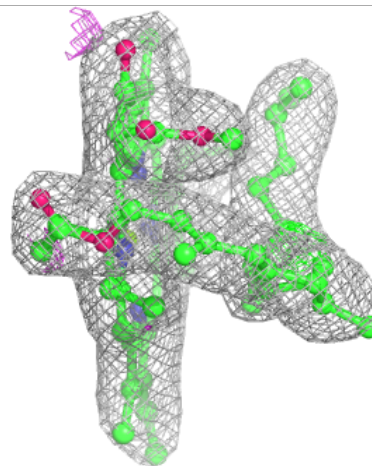
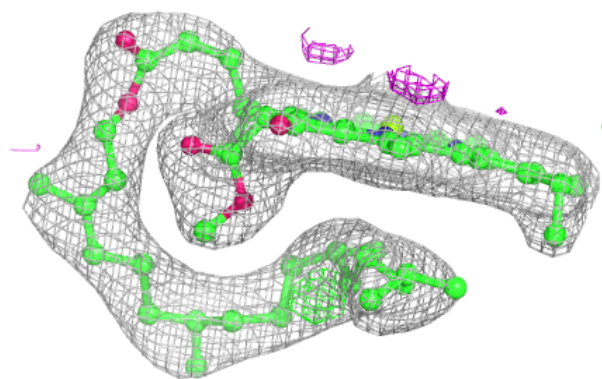
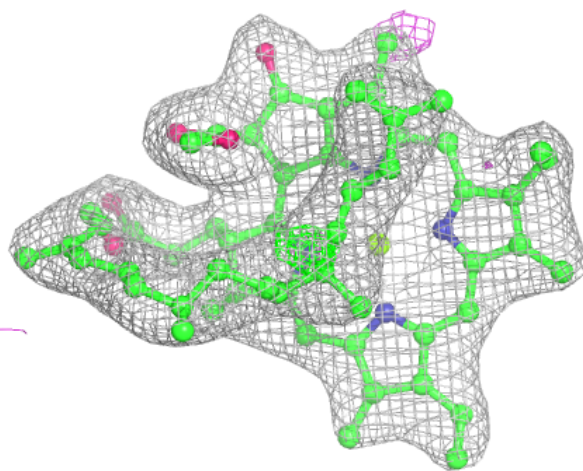
**Electron density around CLA b 615:**

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



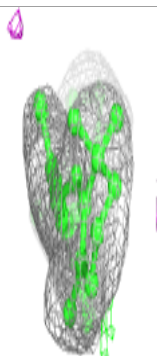
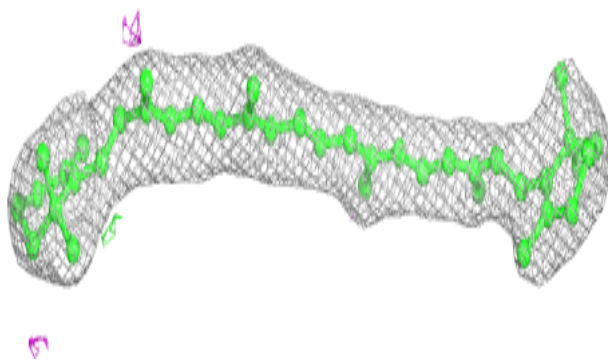
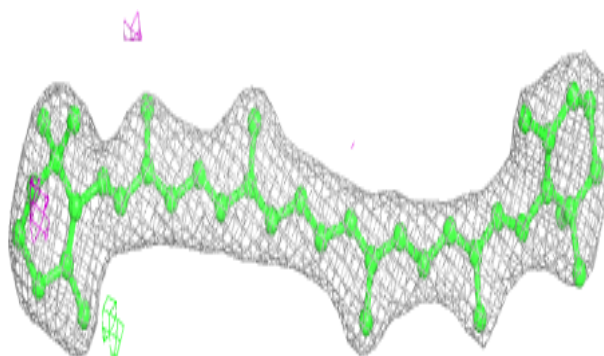
**Electron density around CLA C 511:**

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

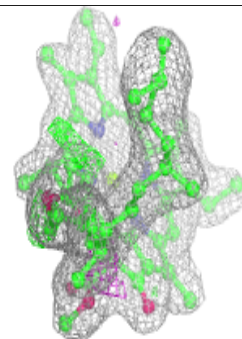
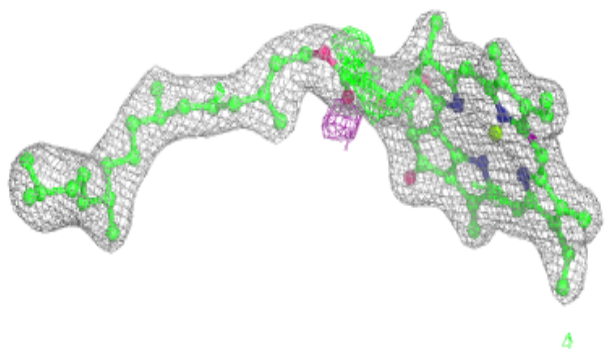
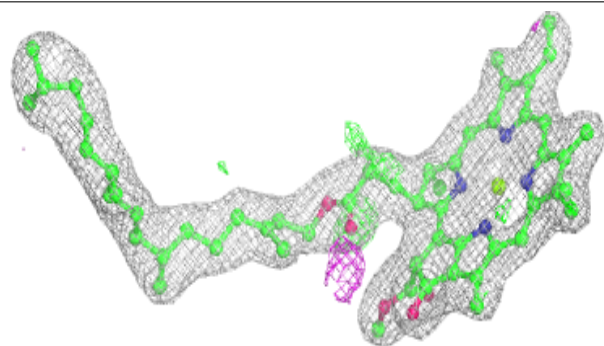


**Electron density around BCR b 619:**

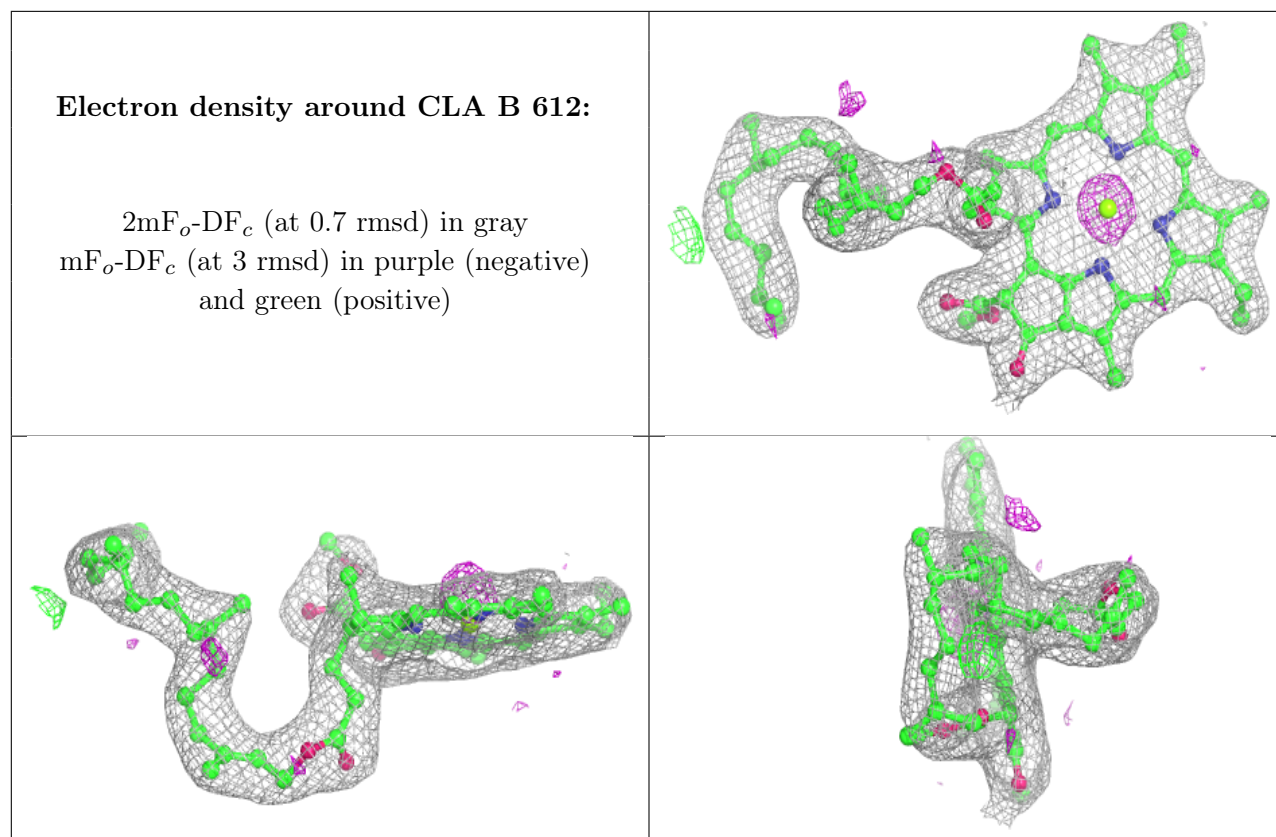
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around CLA A 404 (A):**

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

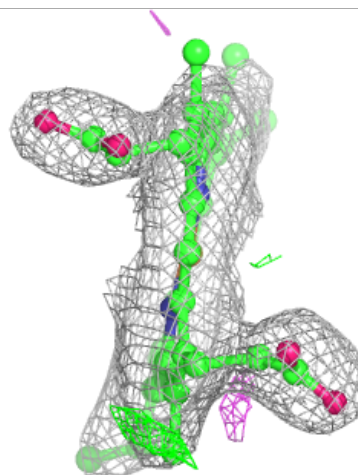
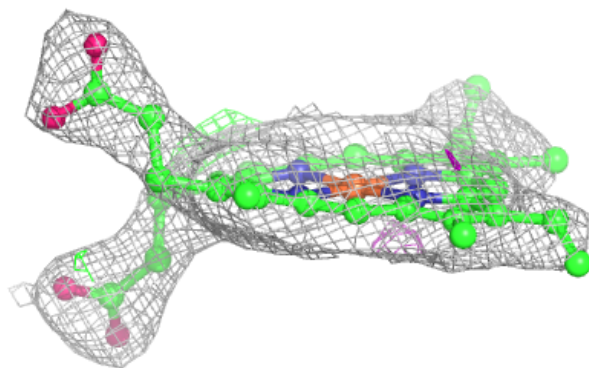
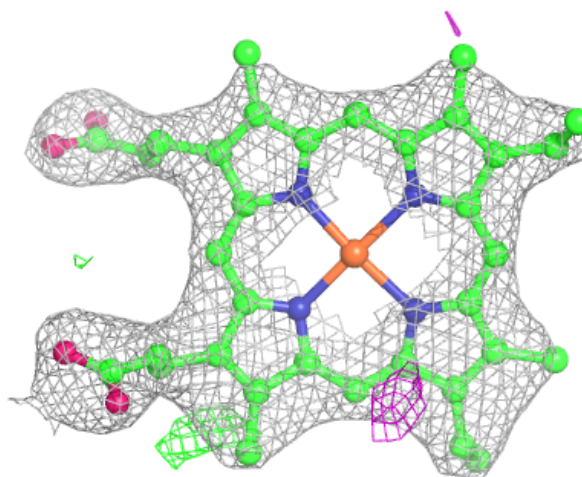


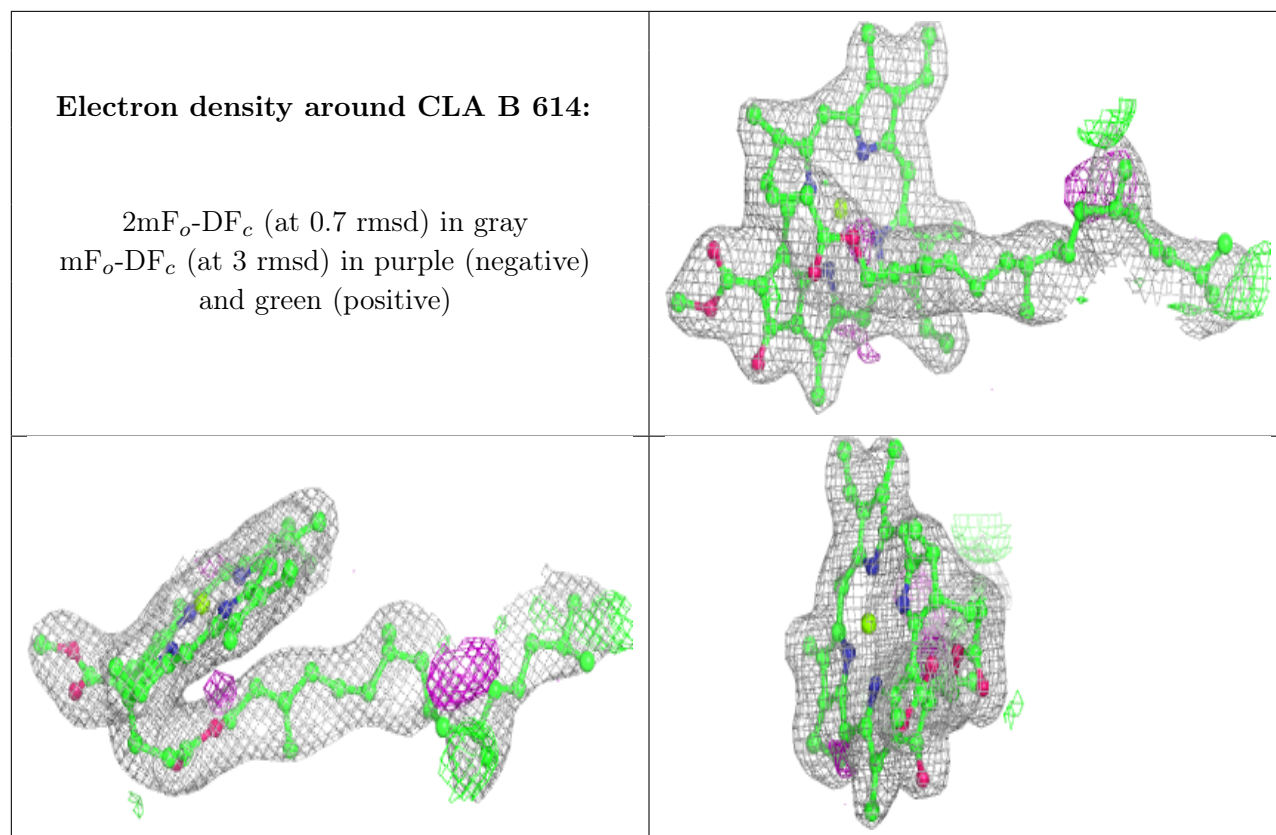




**Electron density around HEM F 102:**

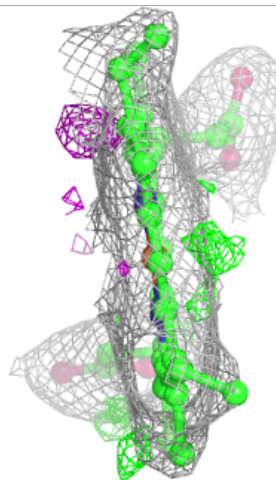
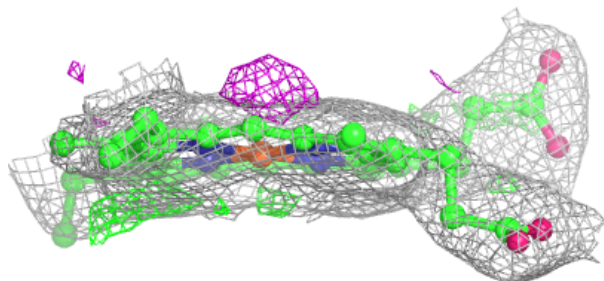
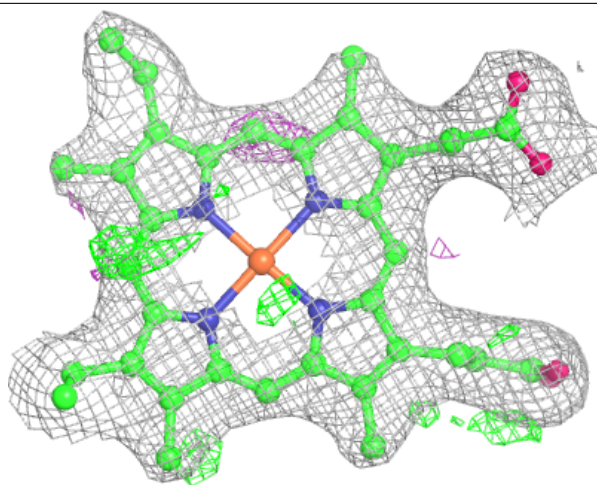
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





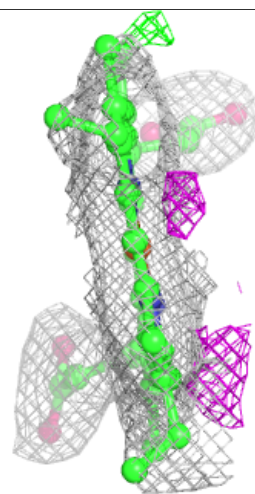
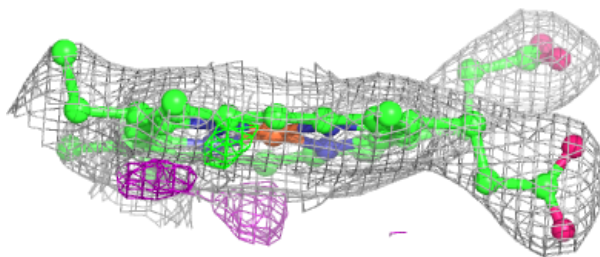
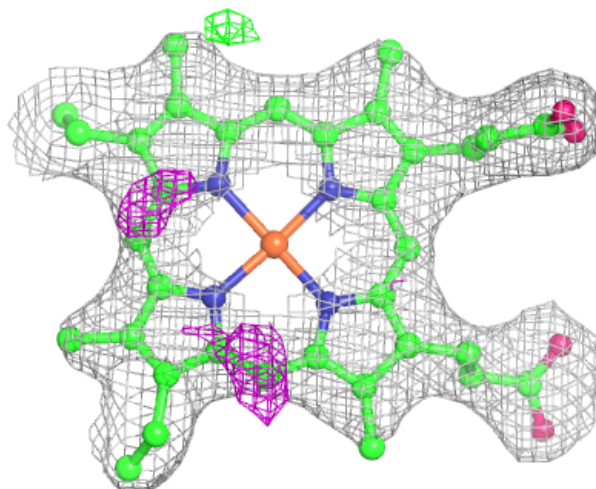
**Electron density around HEC V 201:**

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



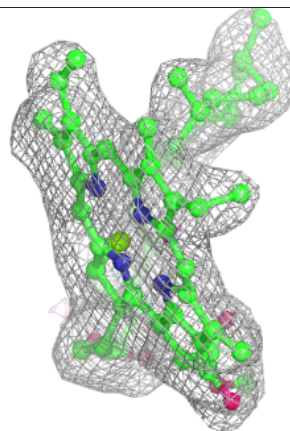
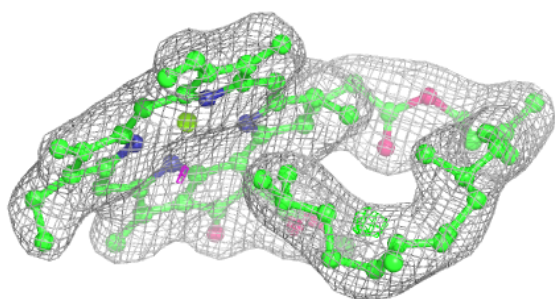
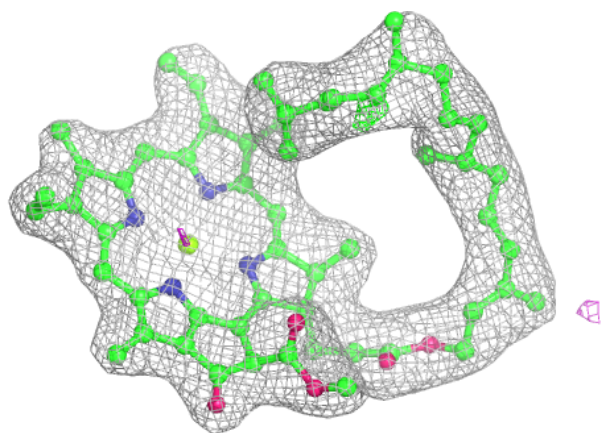
**Electron density around HEC v 201:**

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



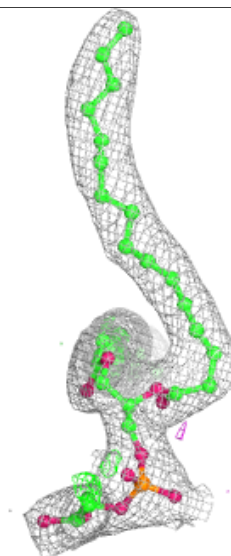
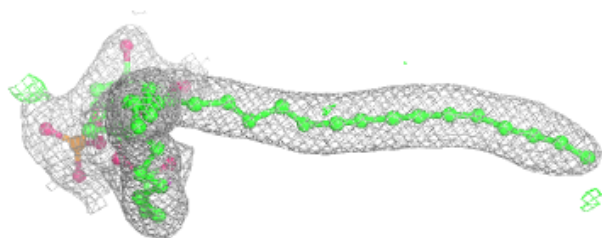
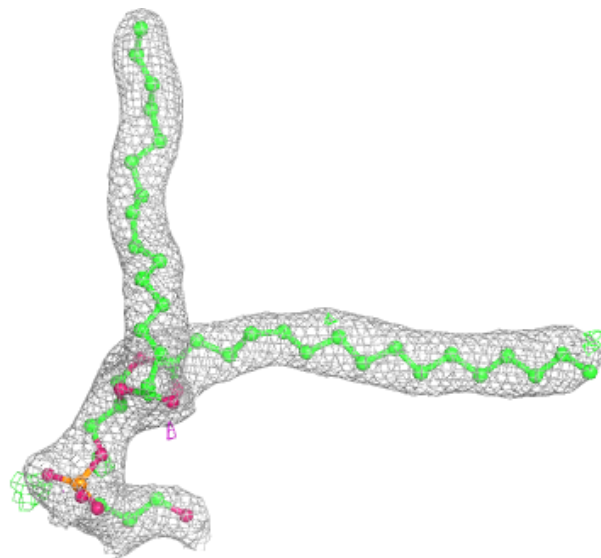
**Electron density around CLA B 615:**

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



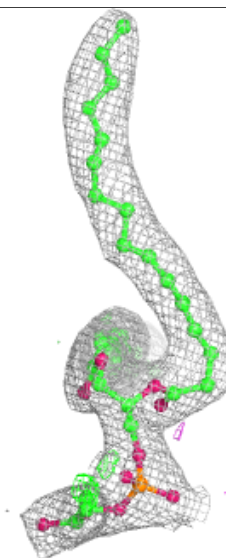
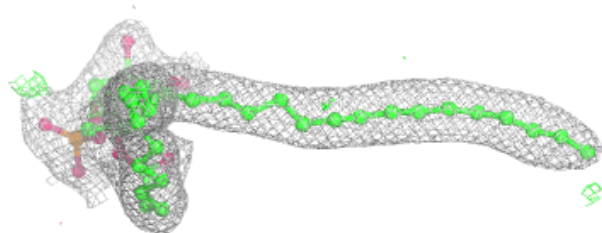
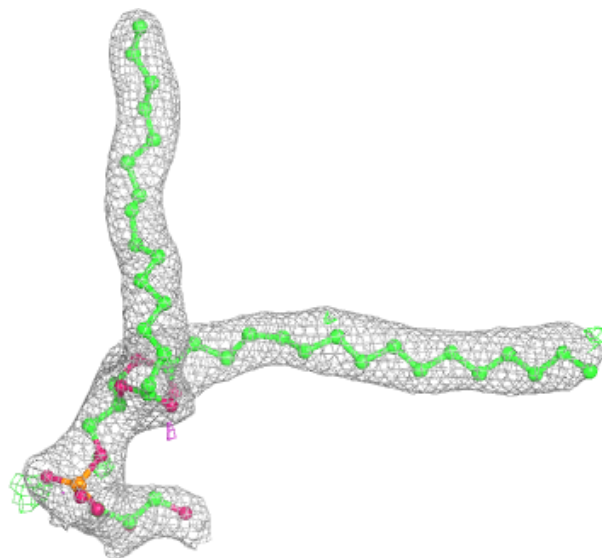
**Electron density around LHG L 101 (A):**

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



**Electron density around LHG L 101 (B):**

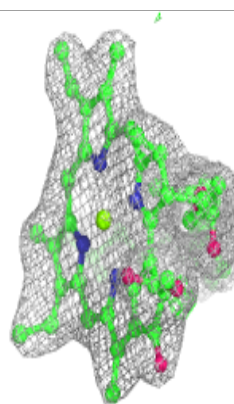
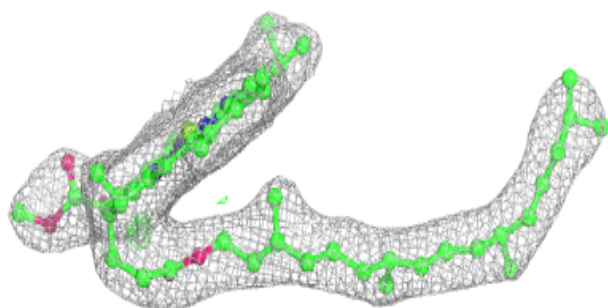
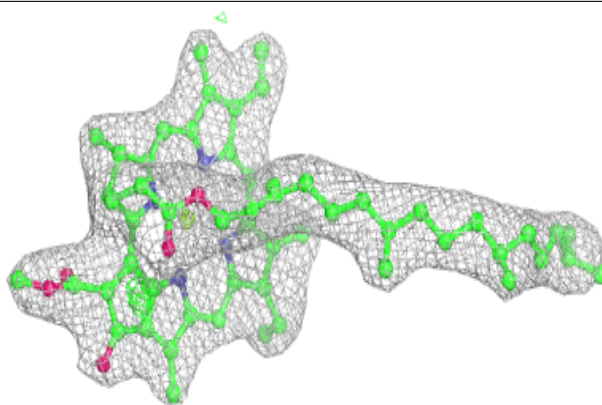
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



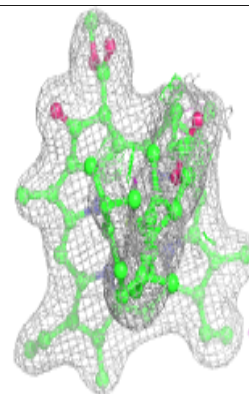
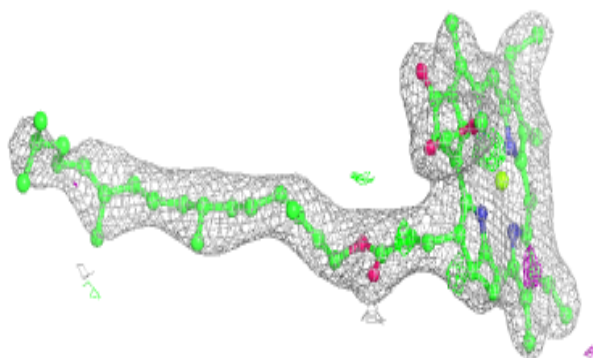
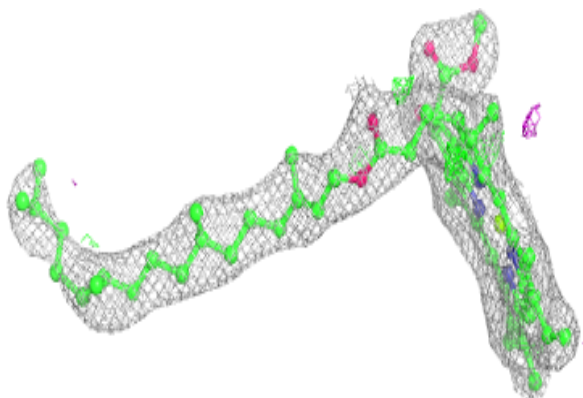


**Electron density around CLA b 608:**

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

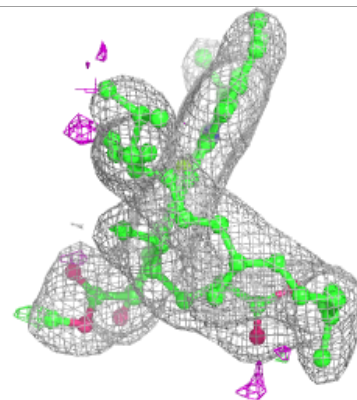
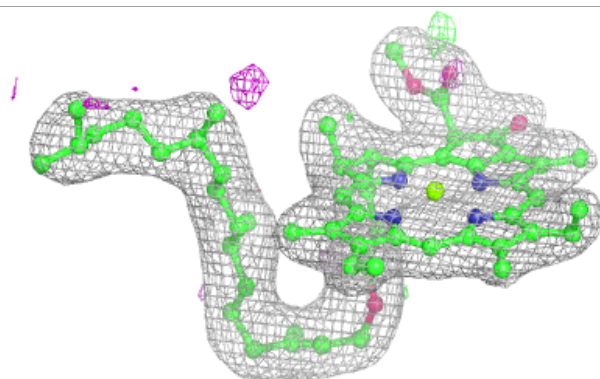
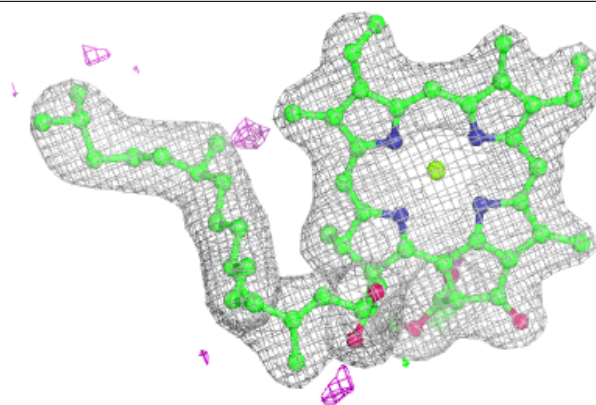
**Electron density around CLA B 604:**

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

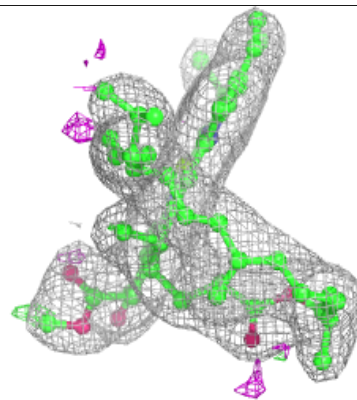
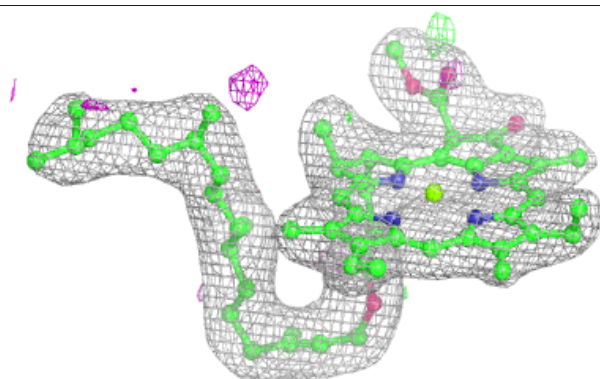
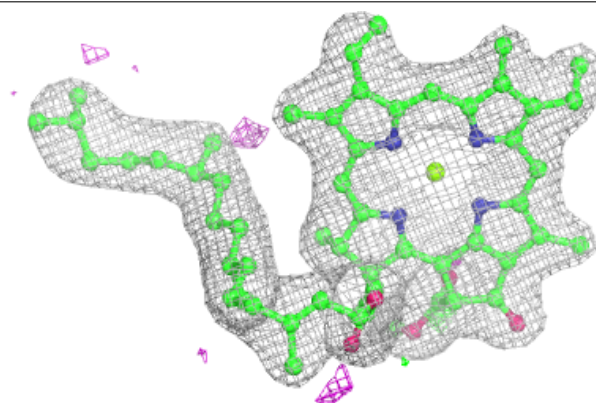


**Electron density around CLA a 405 (A):**

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

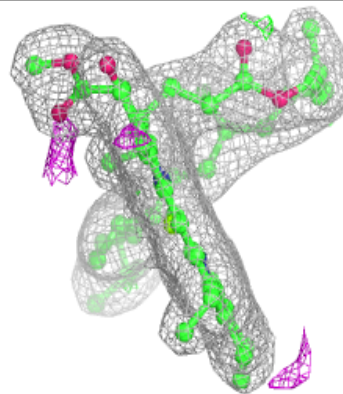
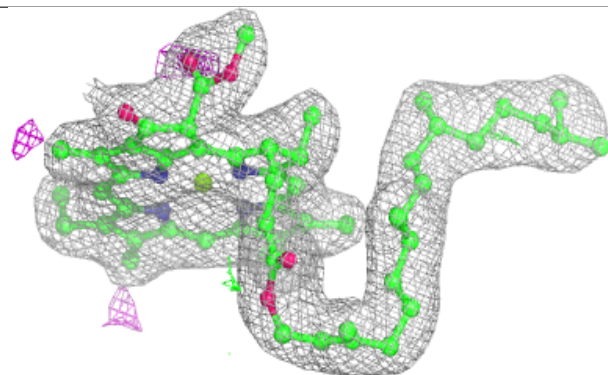
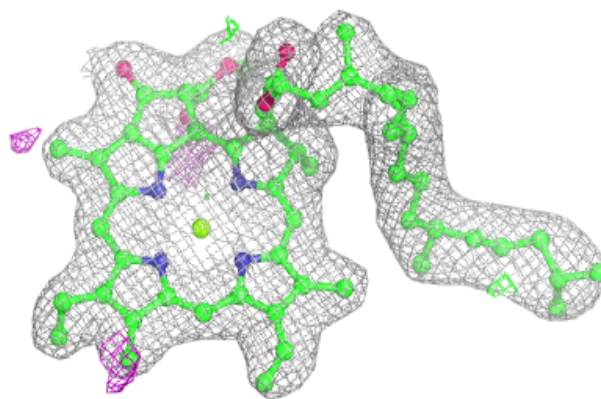
**Electron density around CLA a 405 (B):**

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



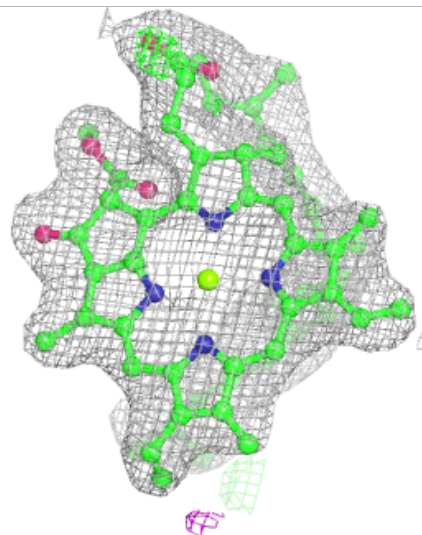
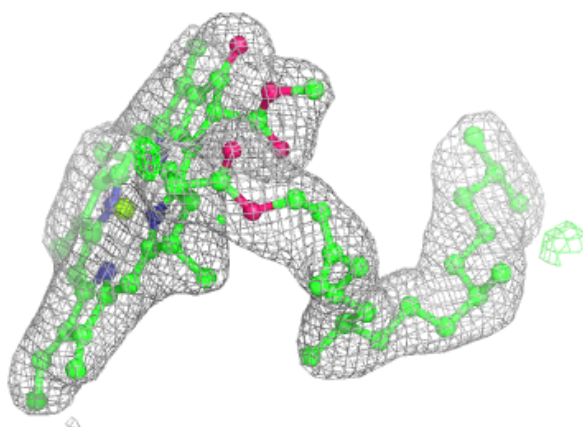
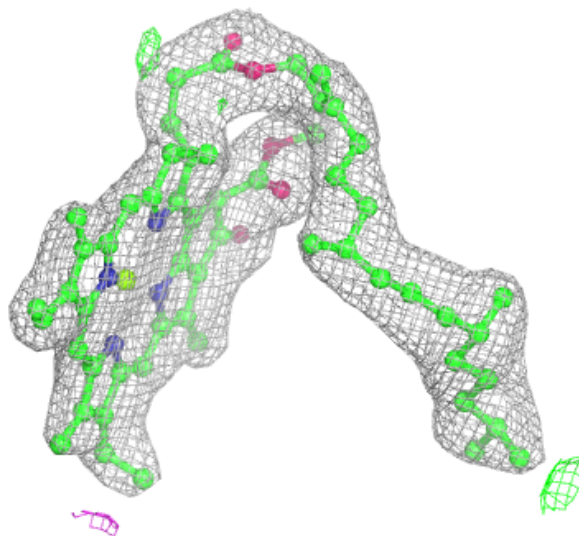
**Electron density around CLA A 405 (A):**

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



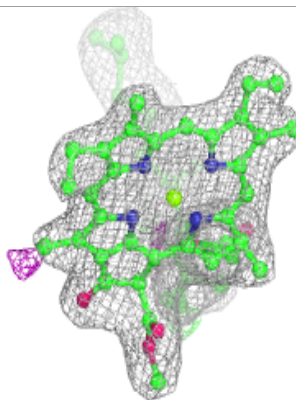
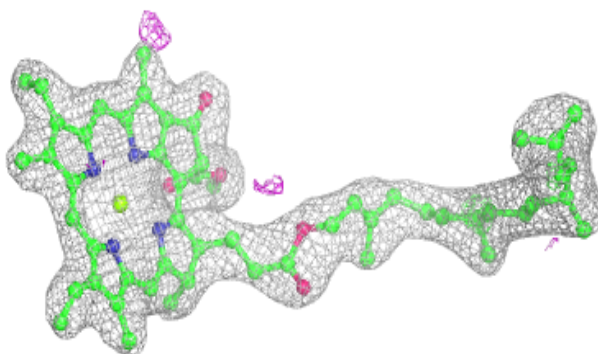
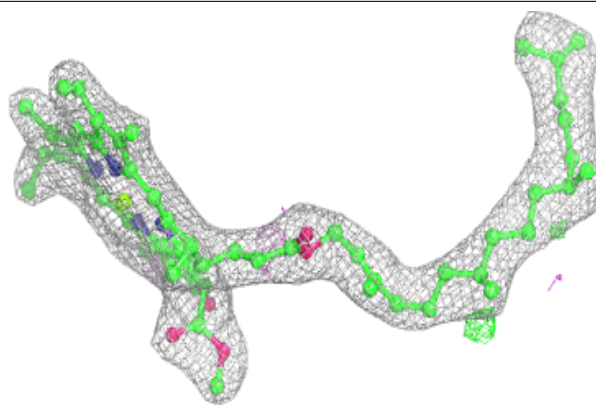
**Electron density around CLA b 613:**

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

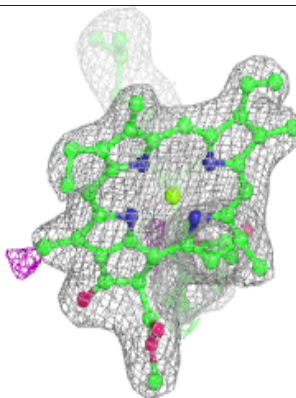
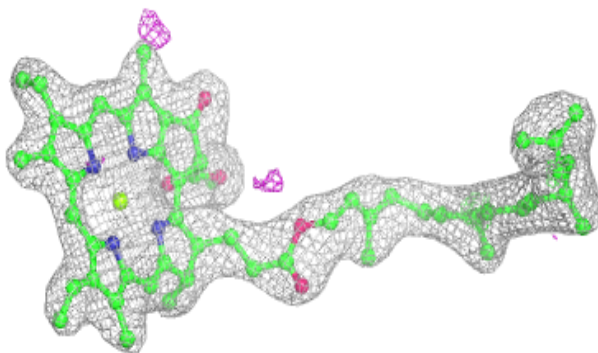
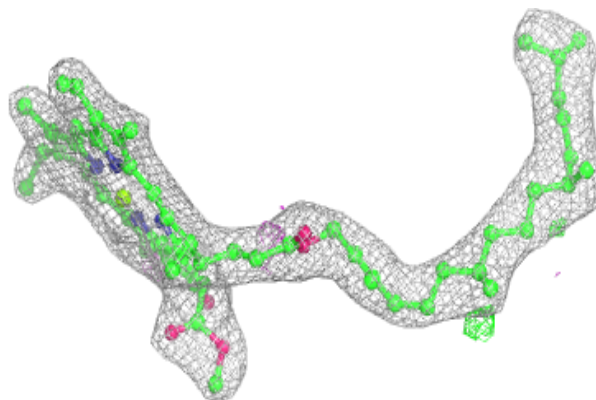


**Electron density around CLA d 402 (A):**

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

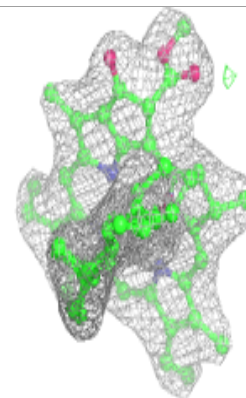
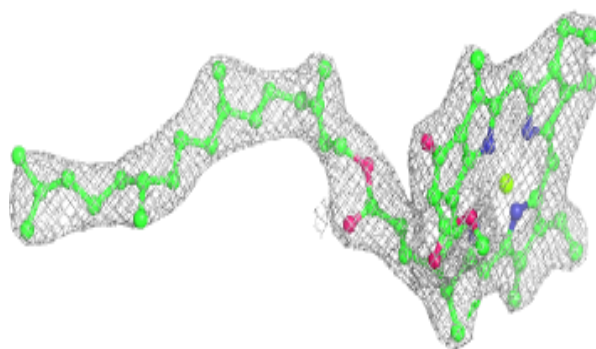
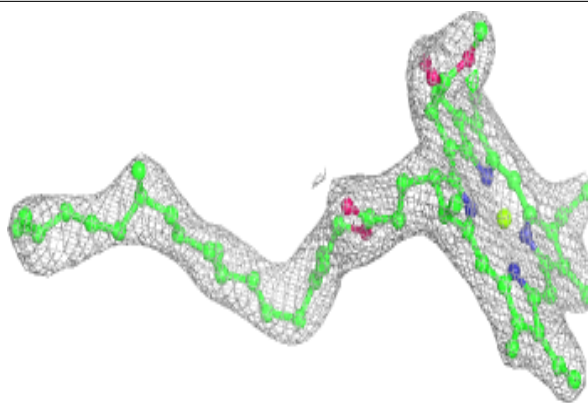
**Electron density around CLA d 402 (B):**

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

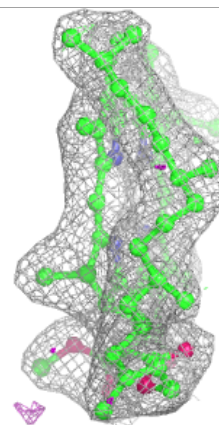
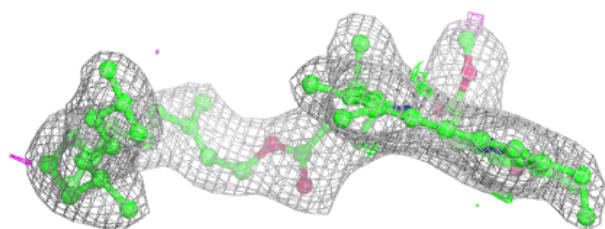
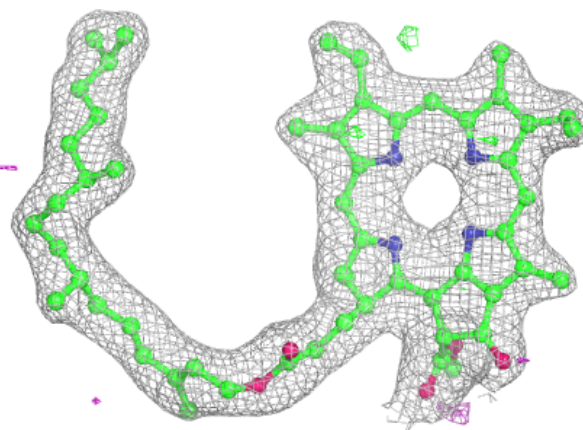


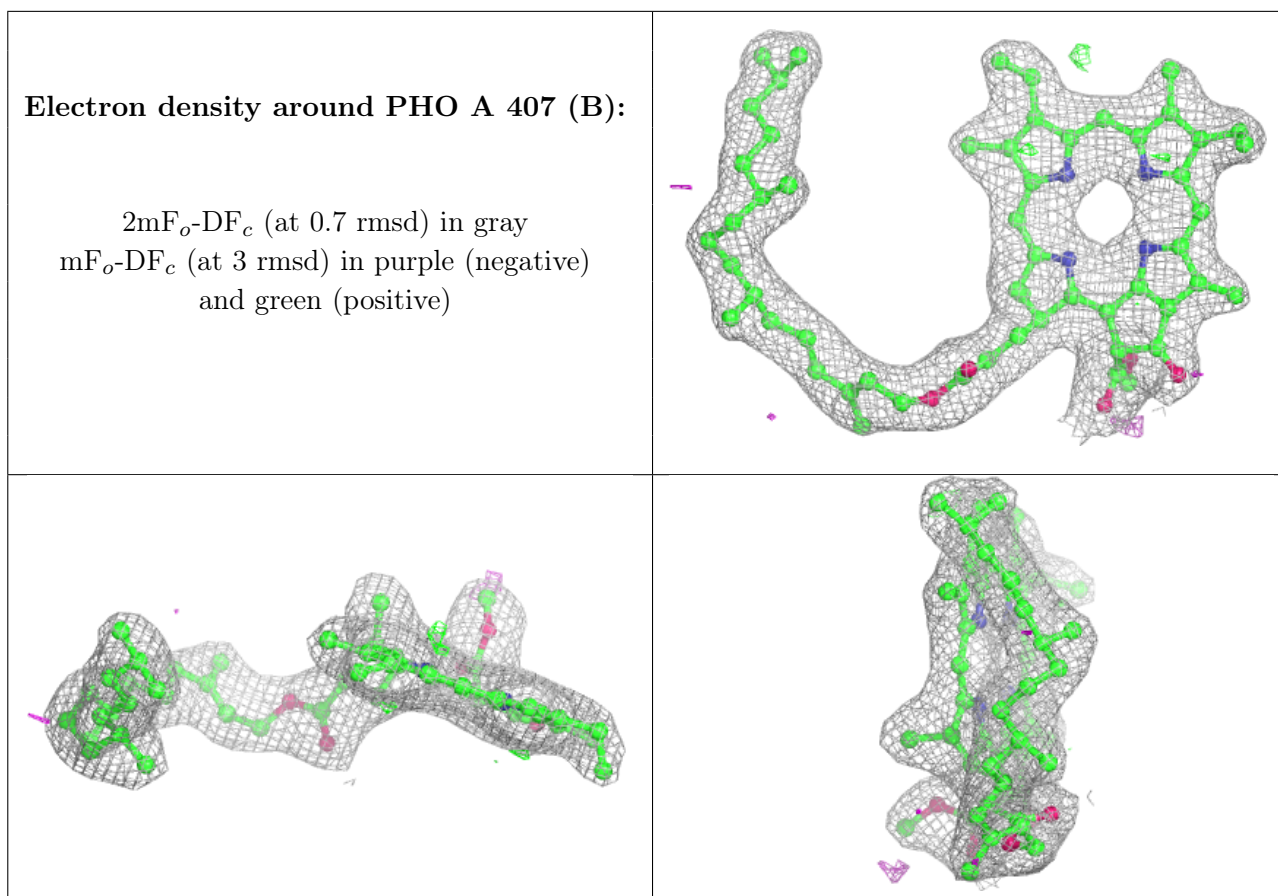
**Electron density around CLA C 503:**

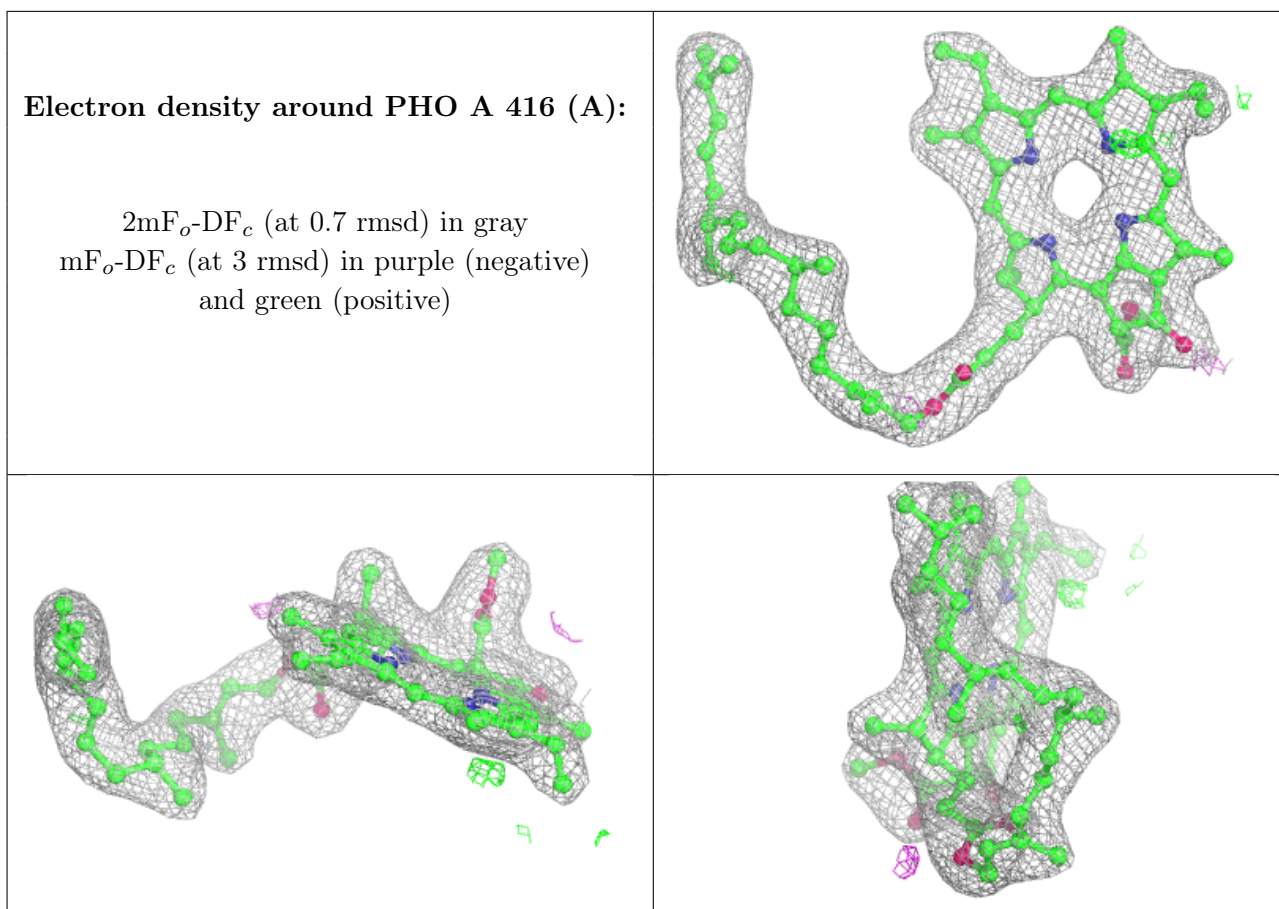
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around PHO A 407 (A):**

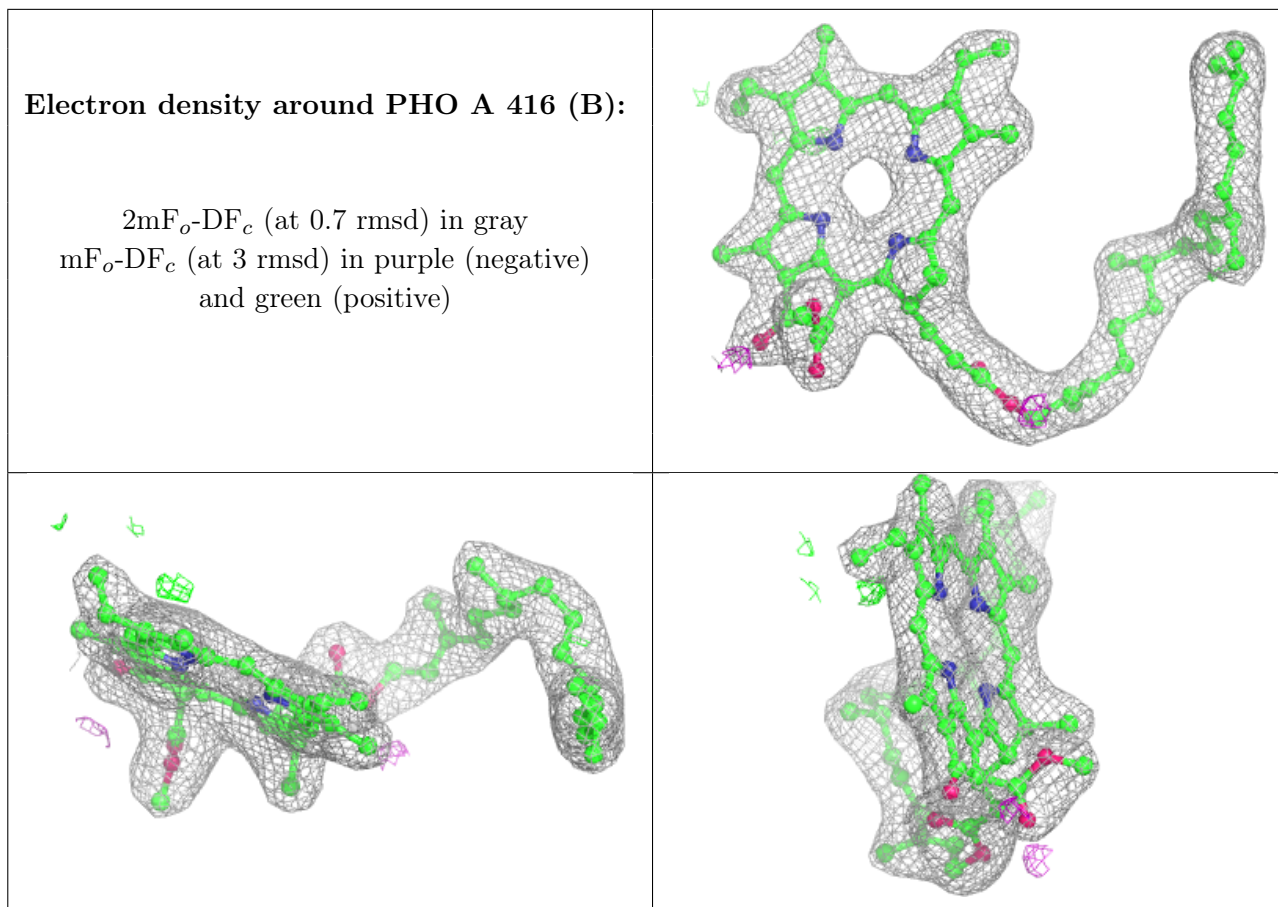
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





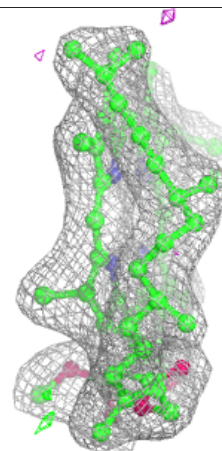
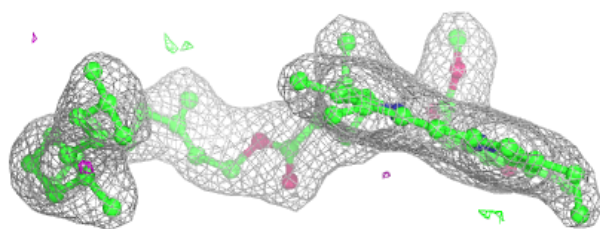
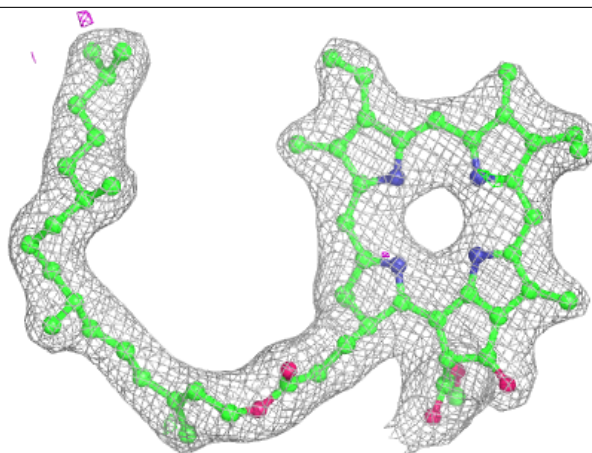






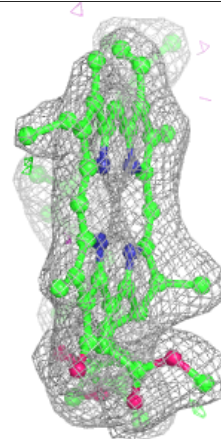
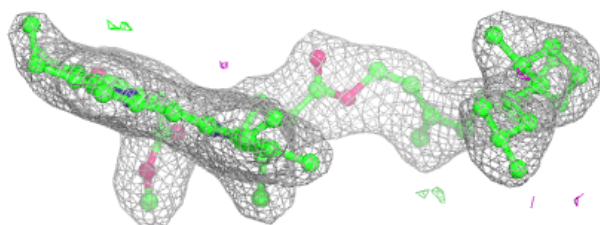
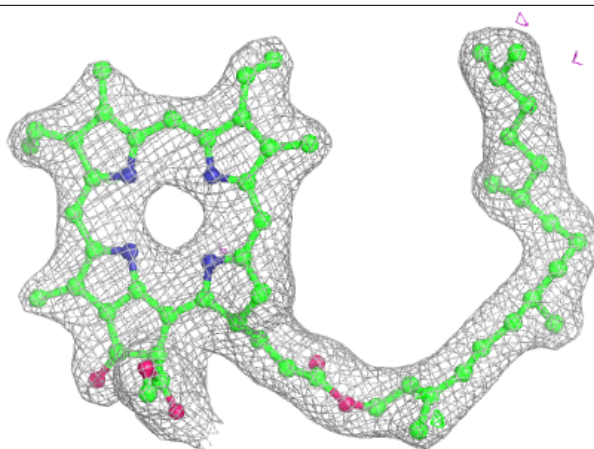
**Electron density around PHO a 407 (A):**

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

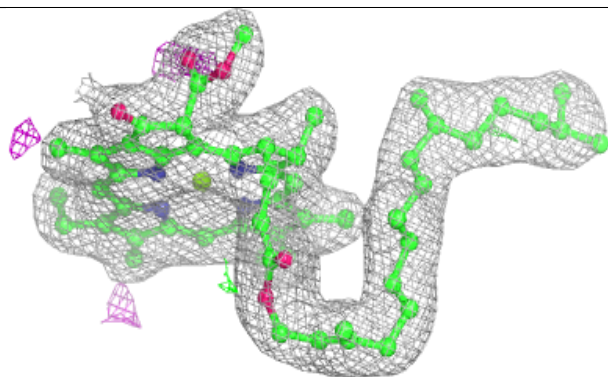
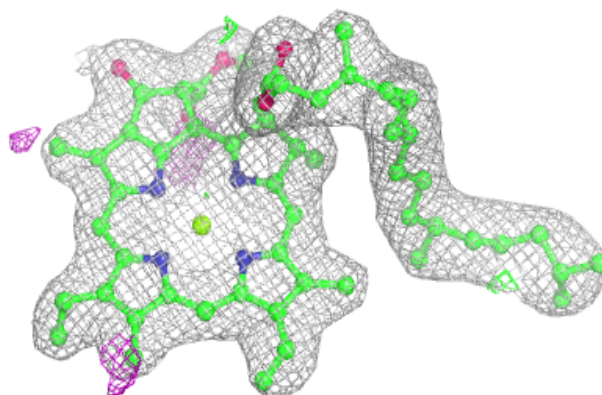


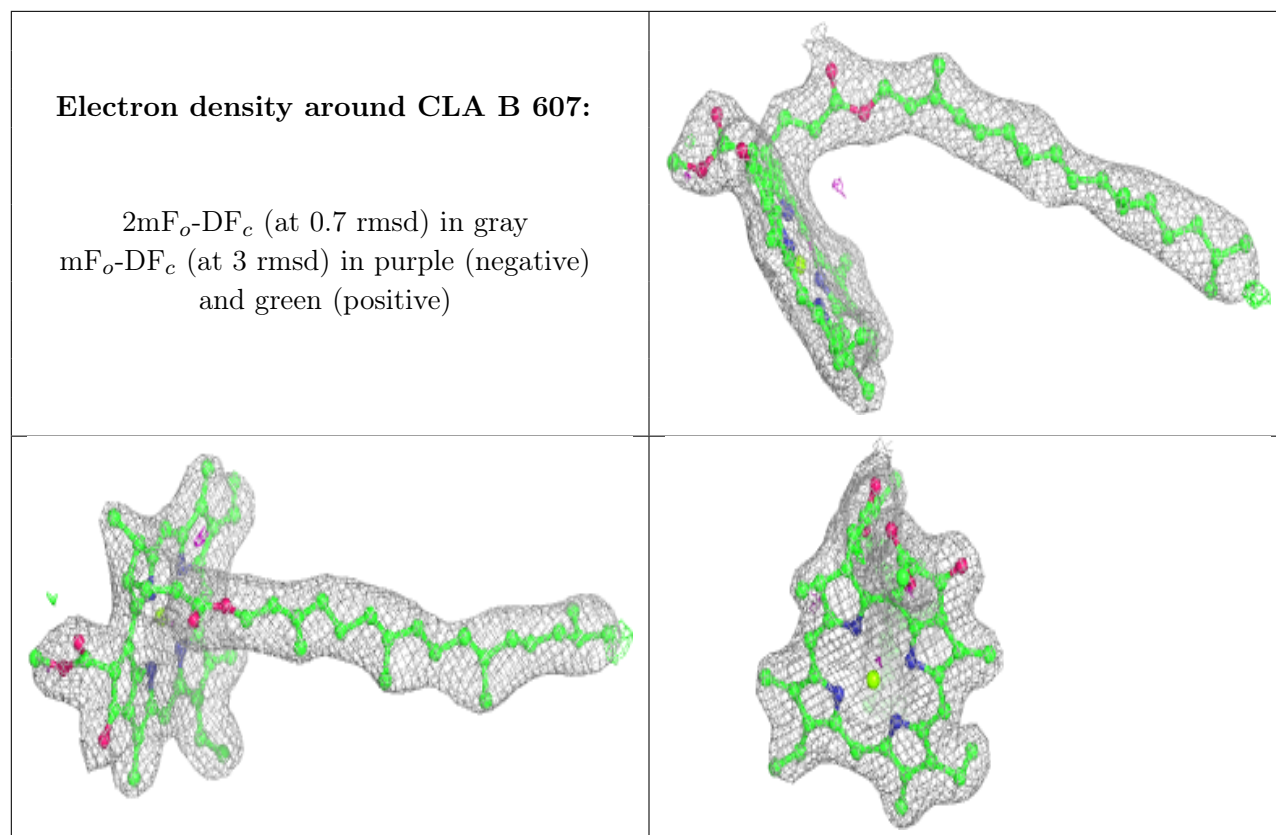
**Electron density around PHO a 407 (B):**

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

**Electron density around CLA A 405 (B):**

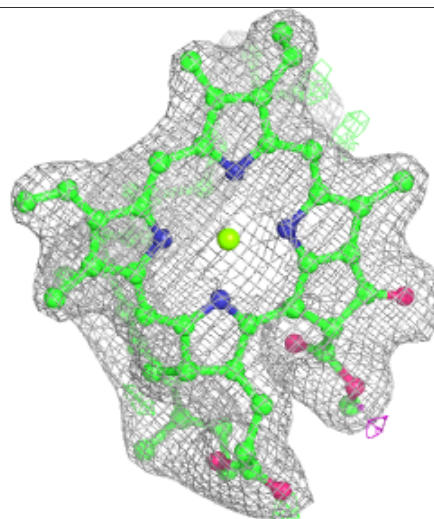
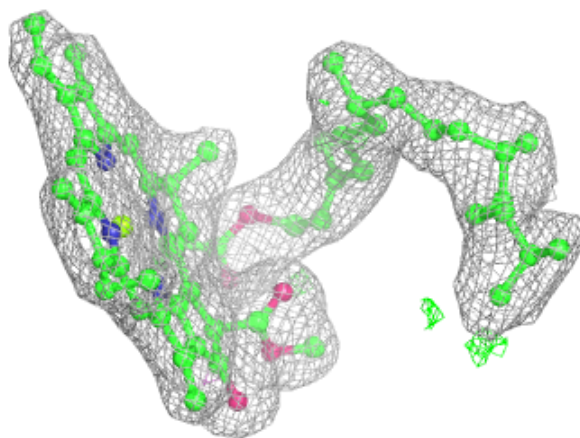
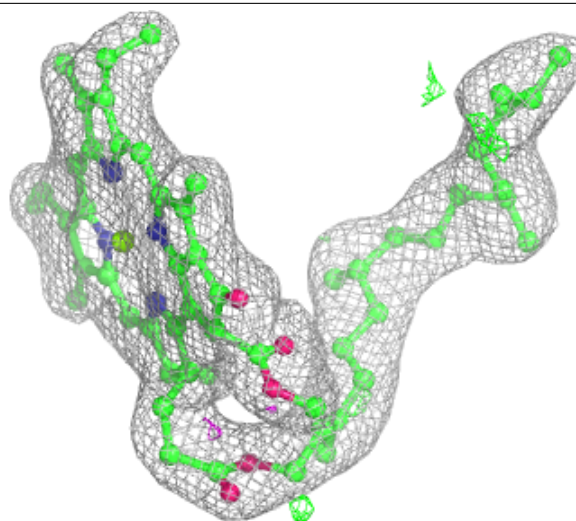
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





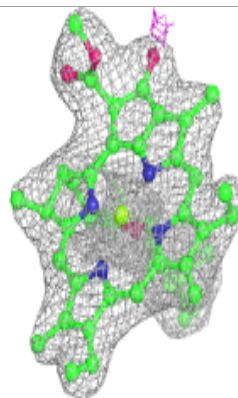
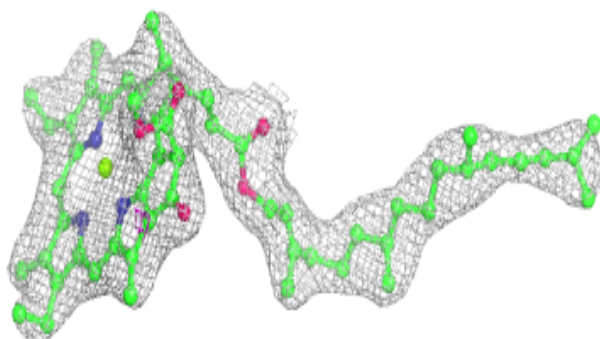
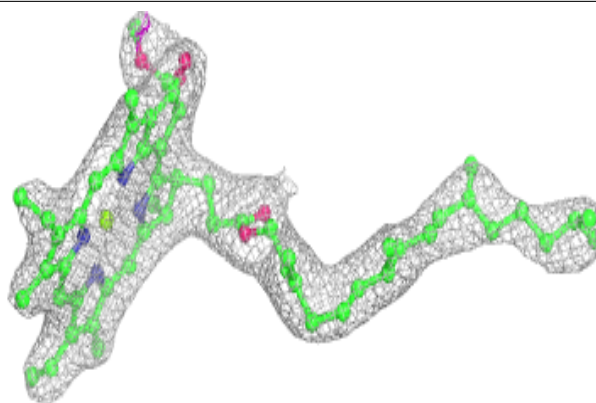
**Electron density around CLA B 613:**

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

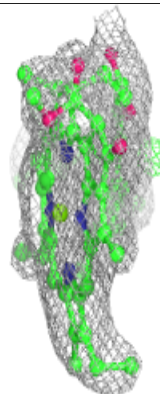
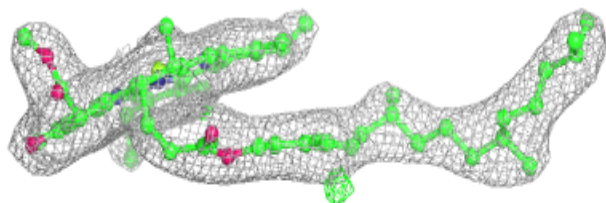
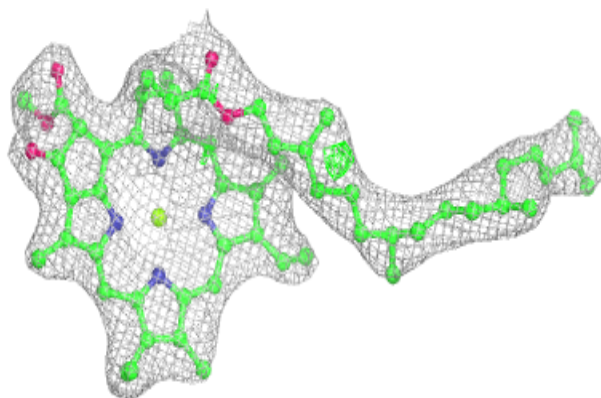


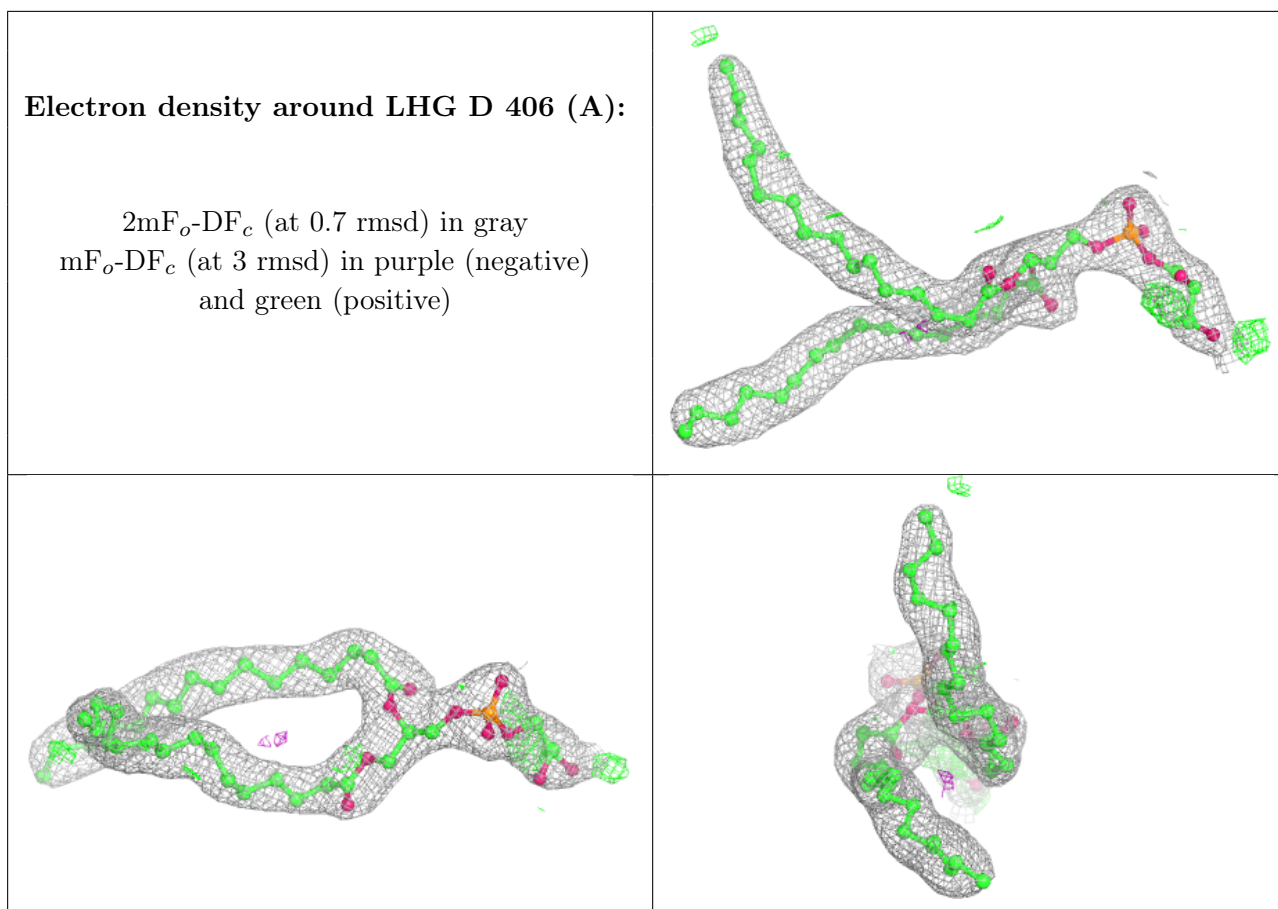
**Electron density around CLA c 502:**

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

**Electron density around CLA b 603:**

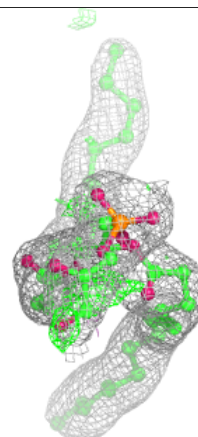
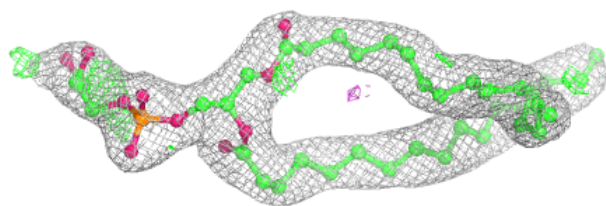
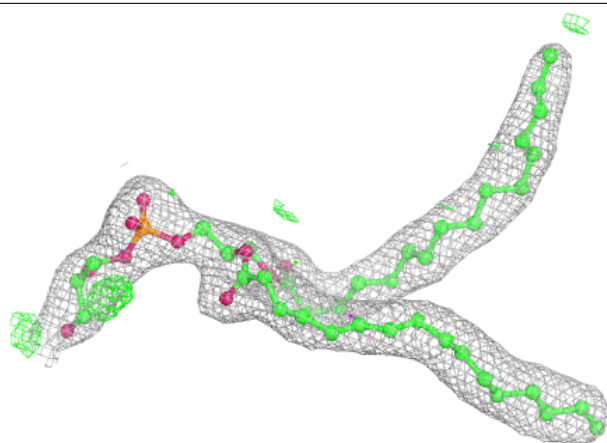
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



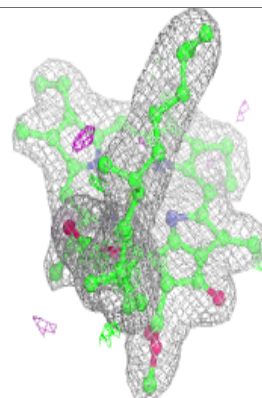
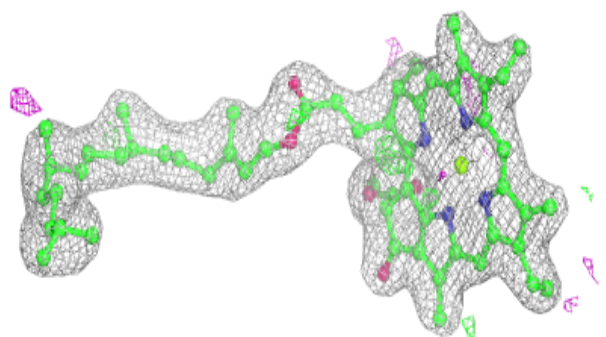
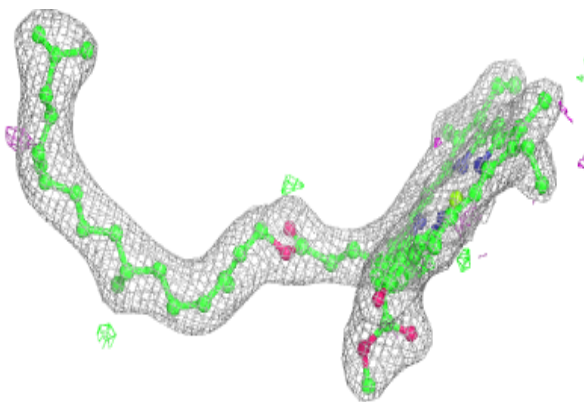


**Electron density around LHG D 406 (B):**

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

**Electron density around CLA D 402 (A):**

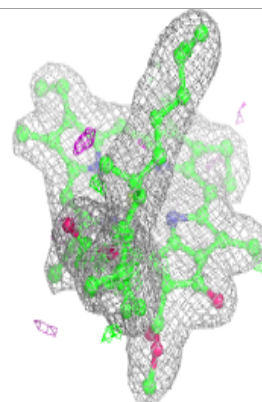
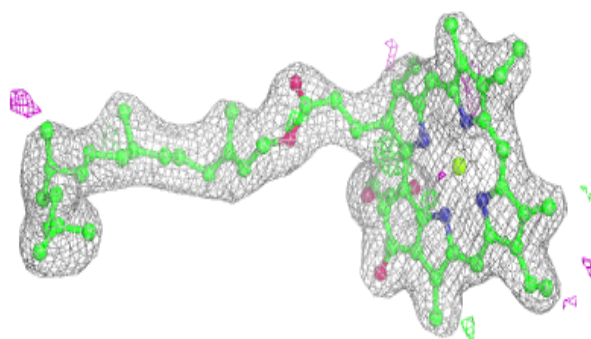
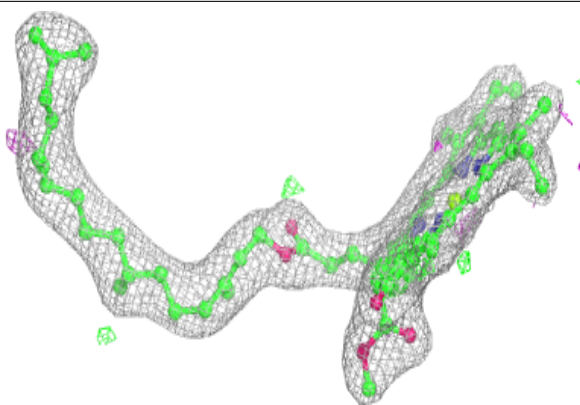
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



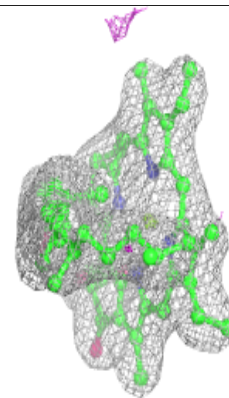
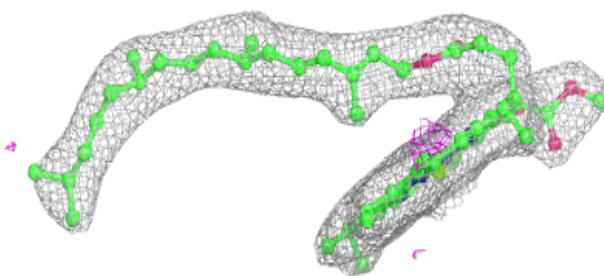
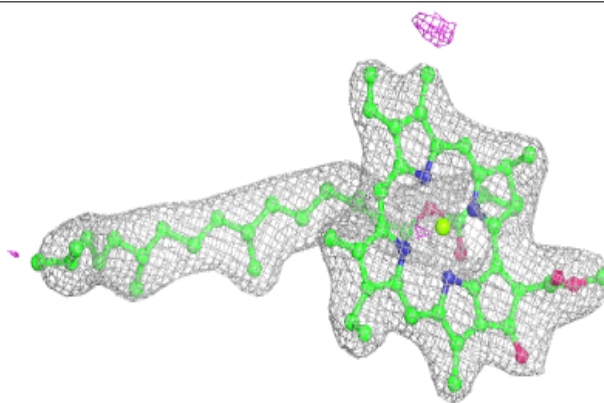


**Electron density around CLA D 402 (B):**

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

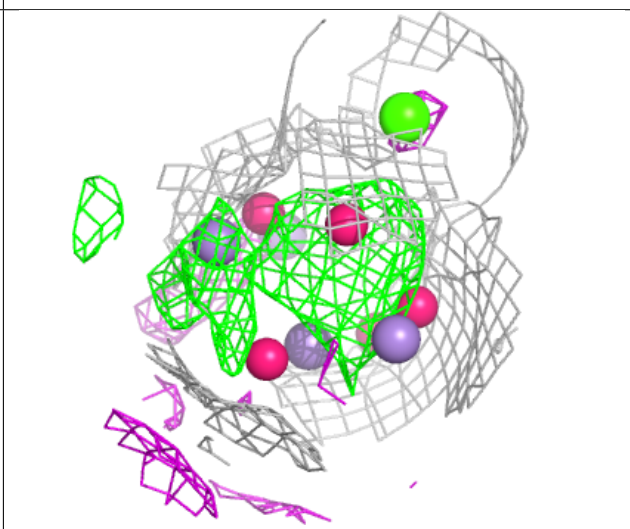
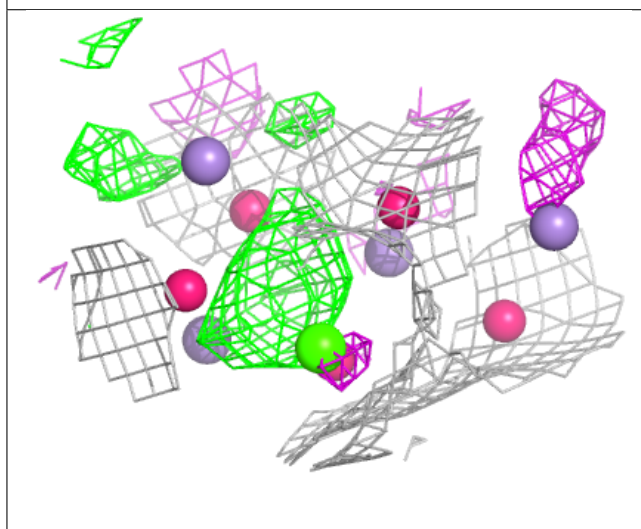
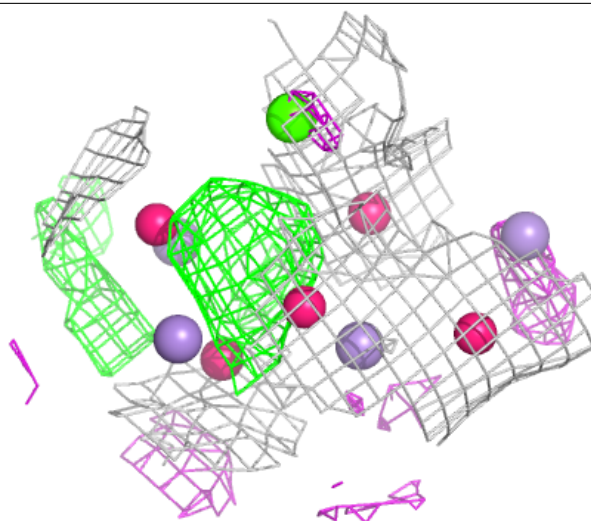
**Electron density around CLA B 608:**

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



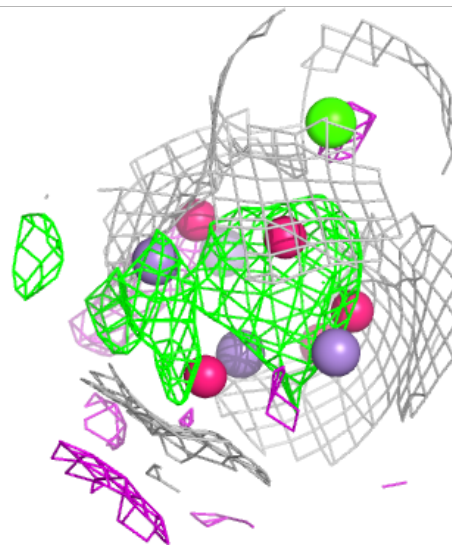
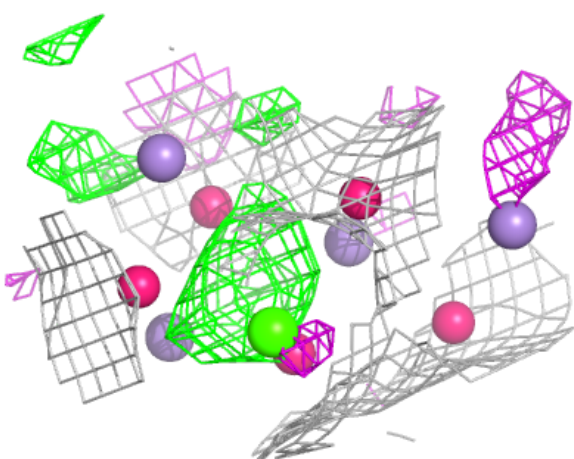
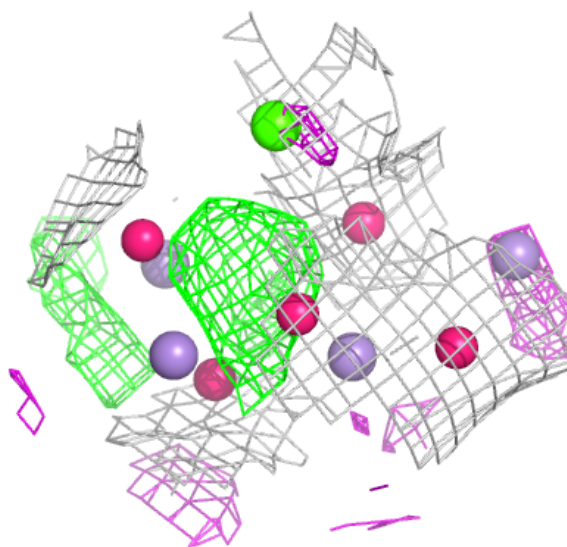
**Electron density around OEX A 413 (A):**

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



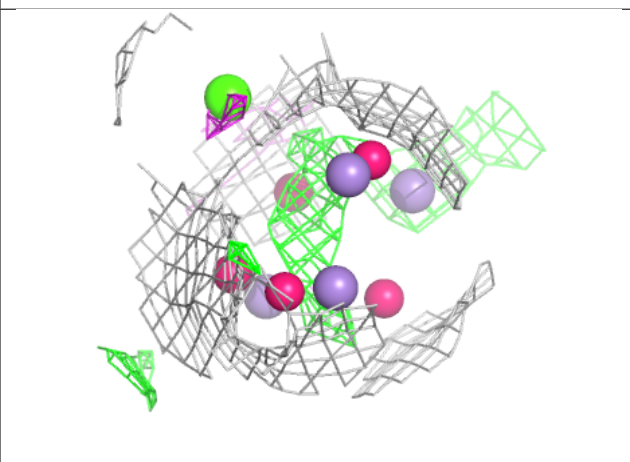
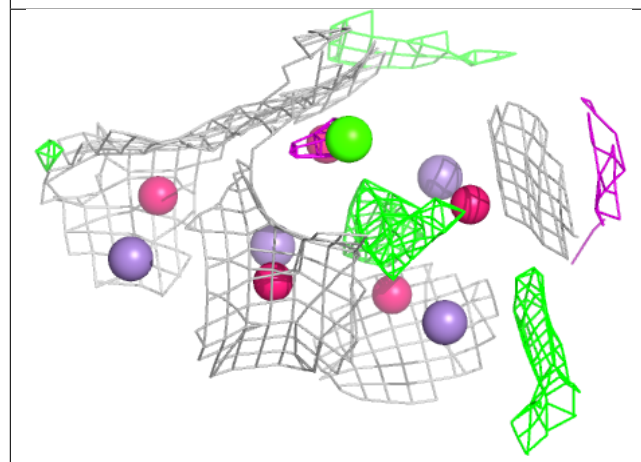
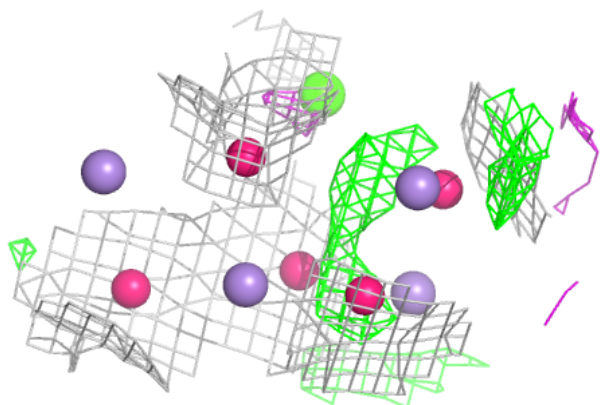
**Electron density around OEX A 413 (B):**

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



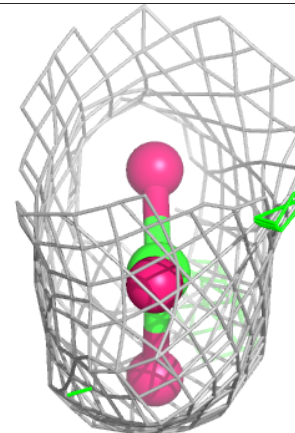
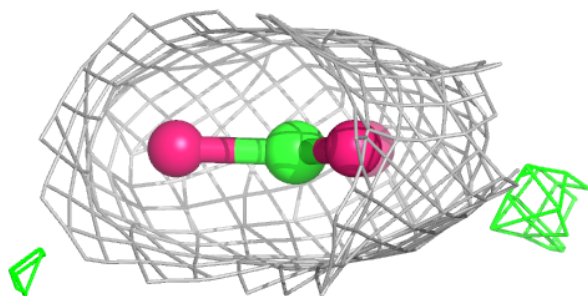
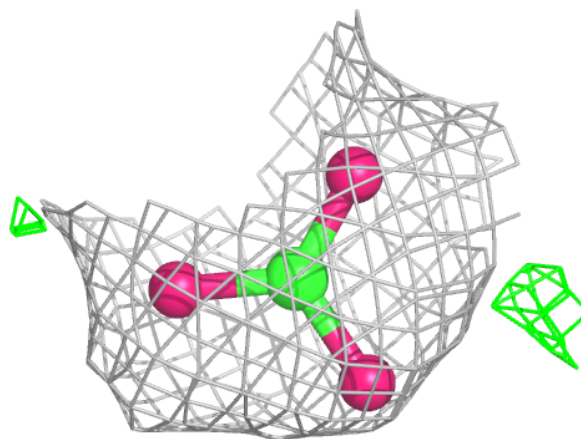
**Electron density around OEX a 412 (A):**

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



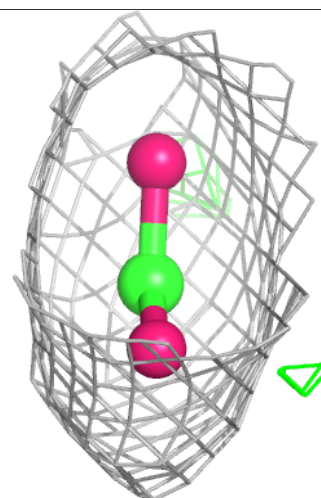
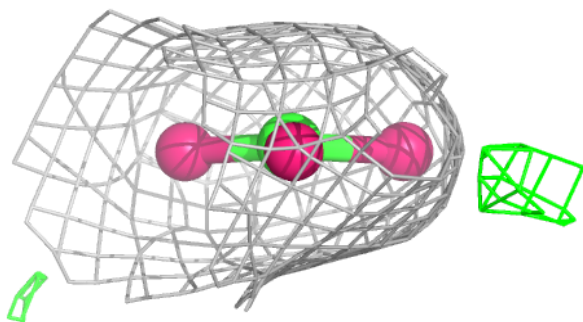
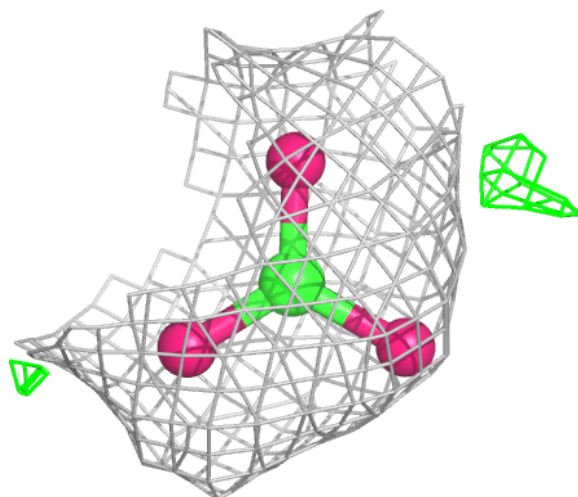
**Electron density around BCT D 401 (A):**

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



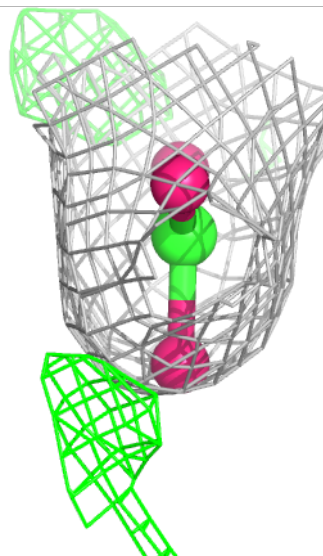
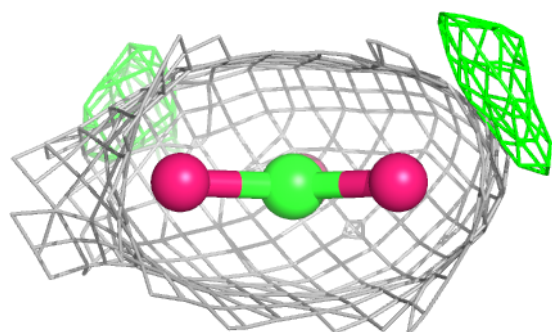
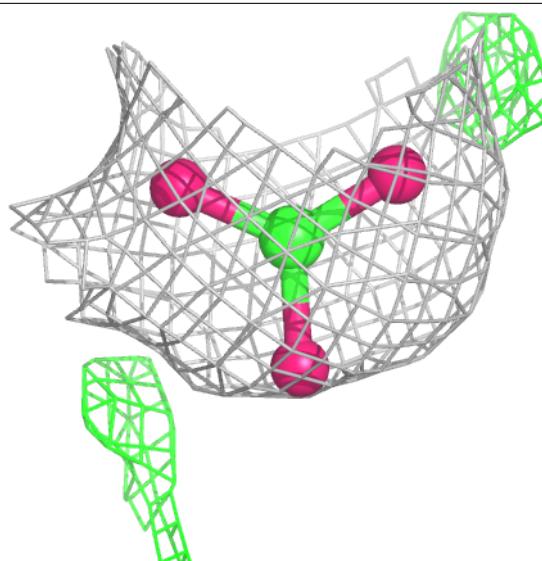
**Electron density around BCT D 401 (B):**

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



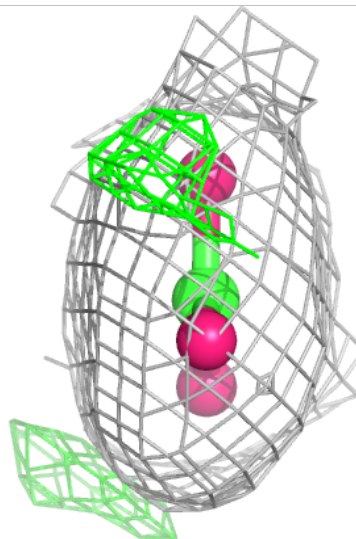
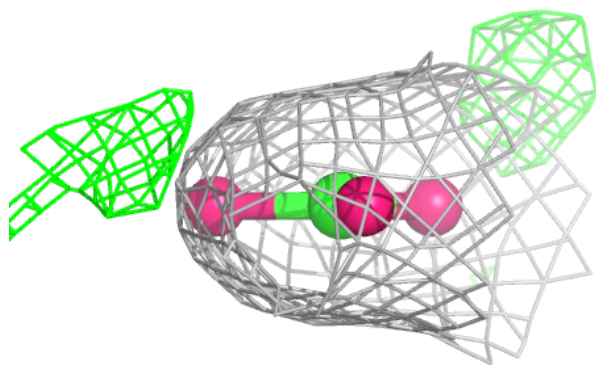
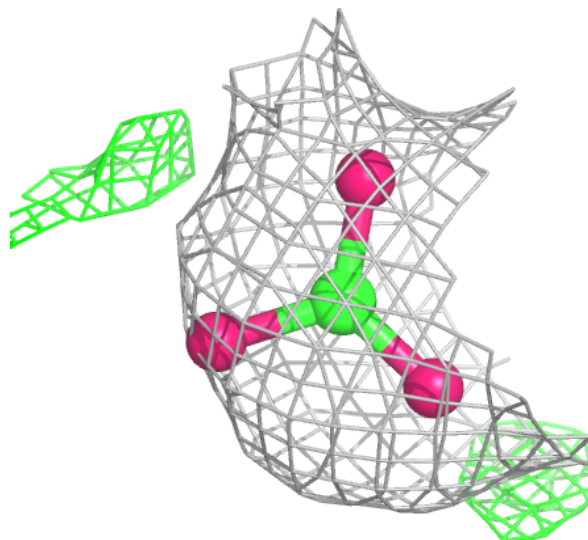
**Electron density around BCT d 401 (A):**

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



**Electron density around BCT d 401 (B):**

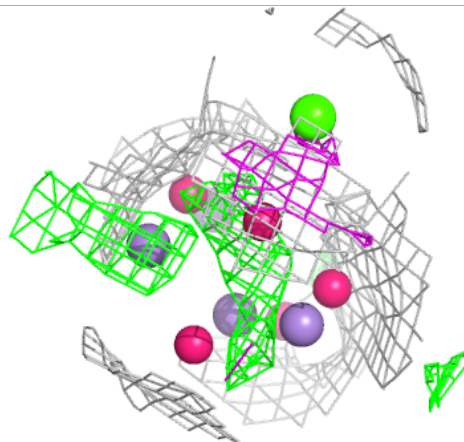
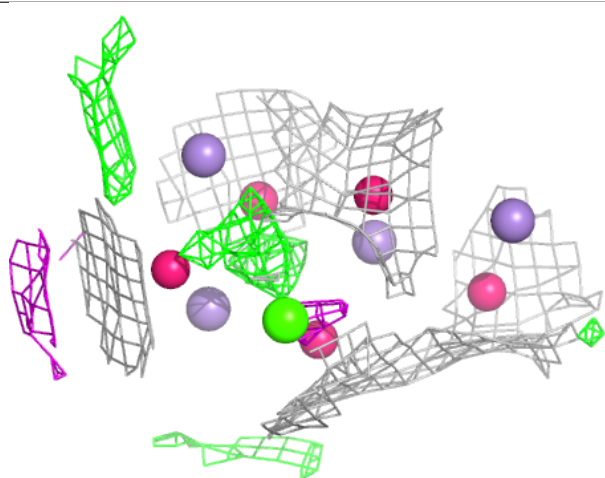
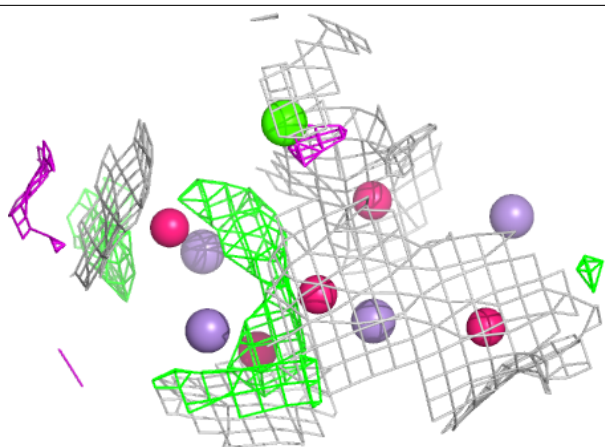
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





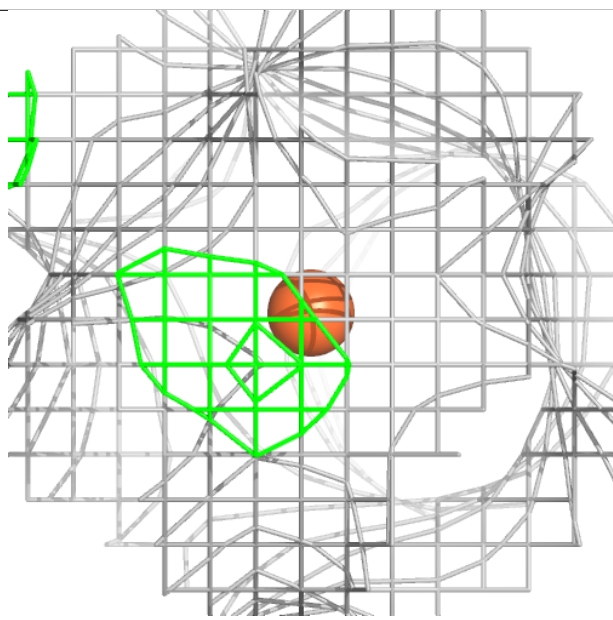
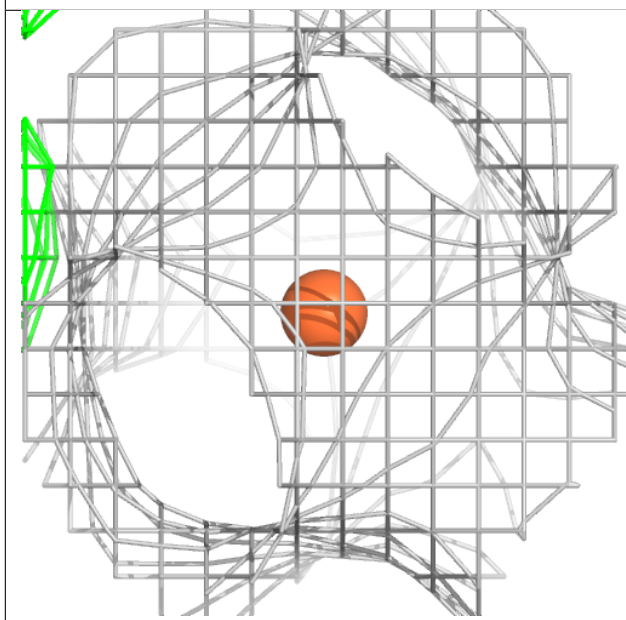
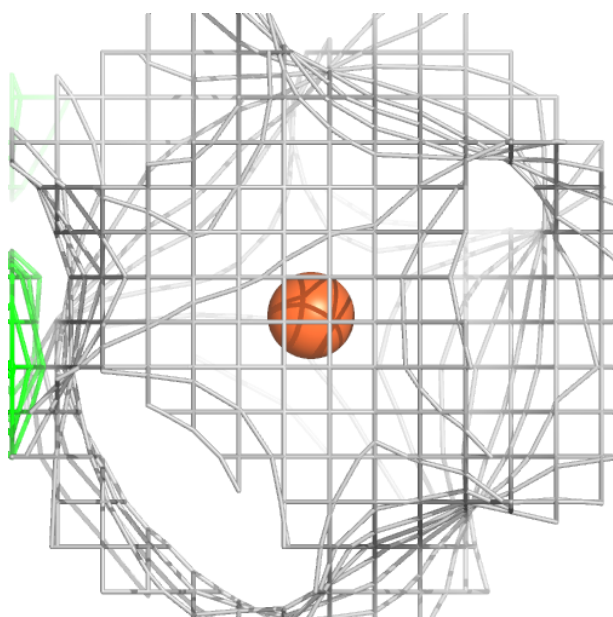
**Electron density around OEX a 412 (B):**

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



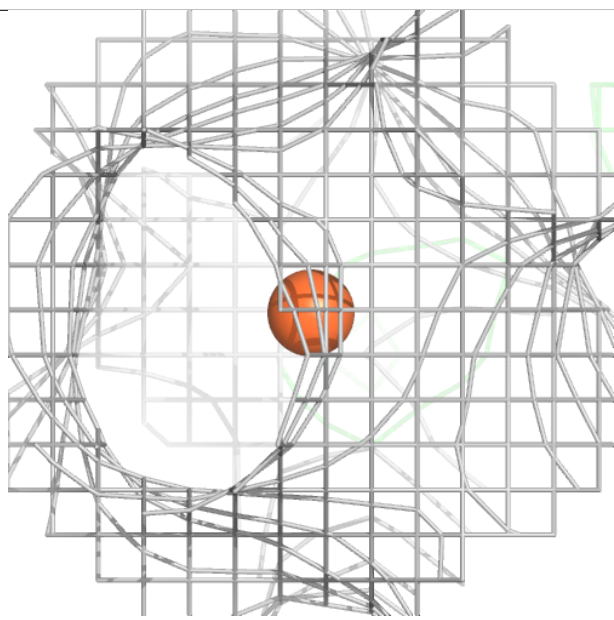
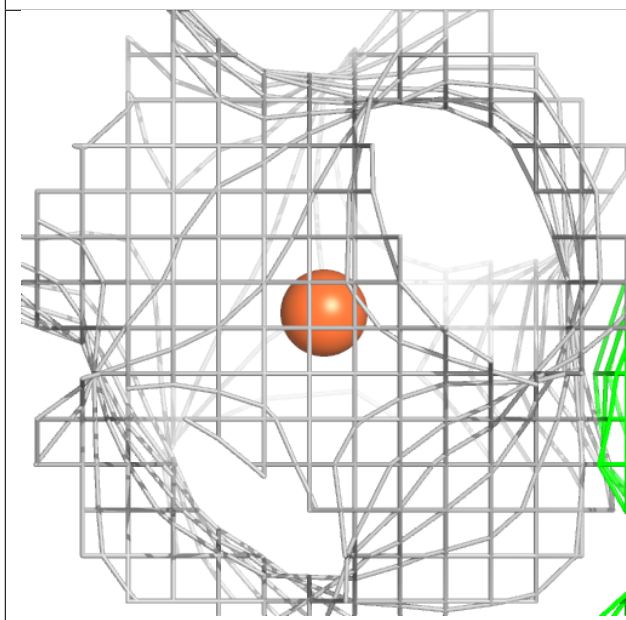
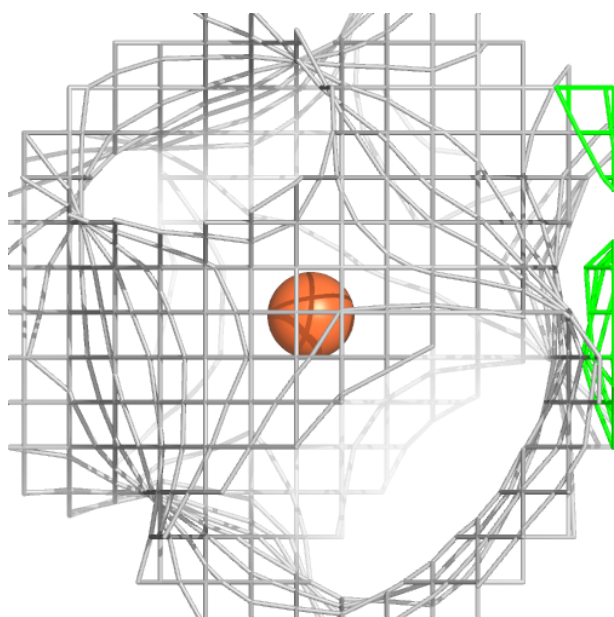
**Electron density around FE2 a 401 (A):**

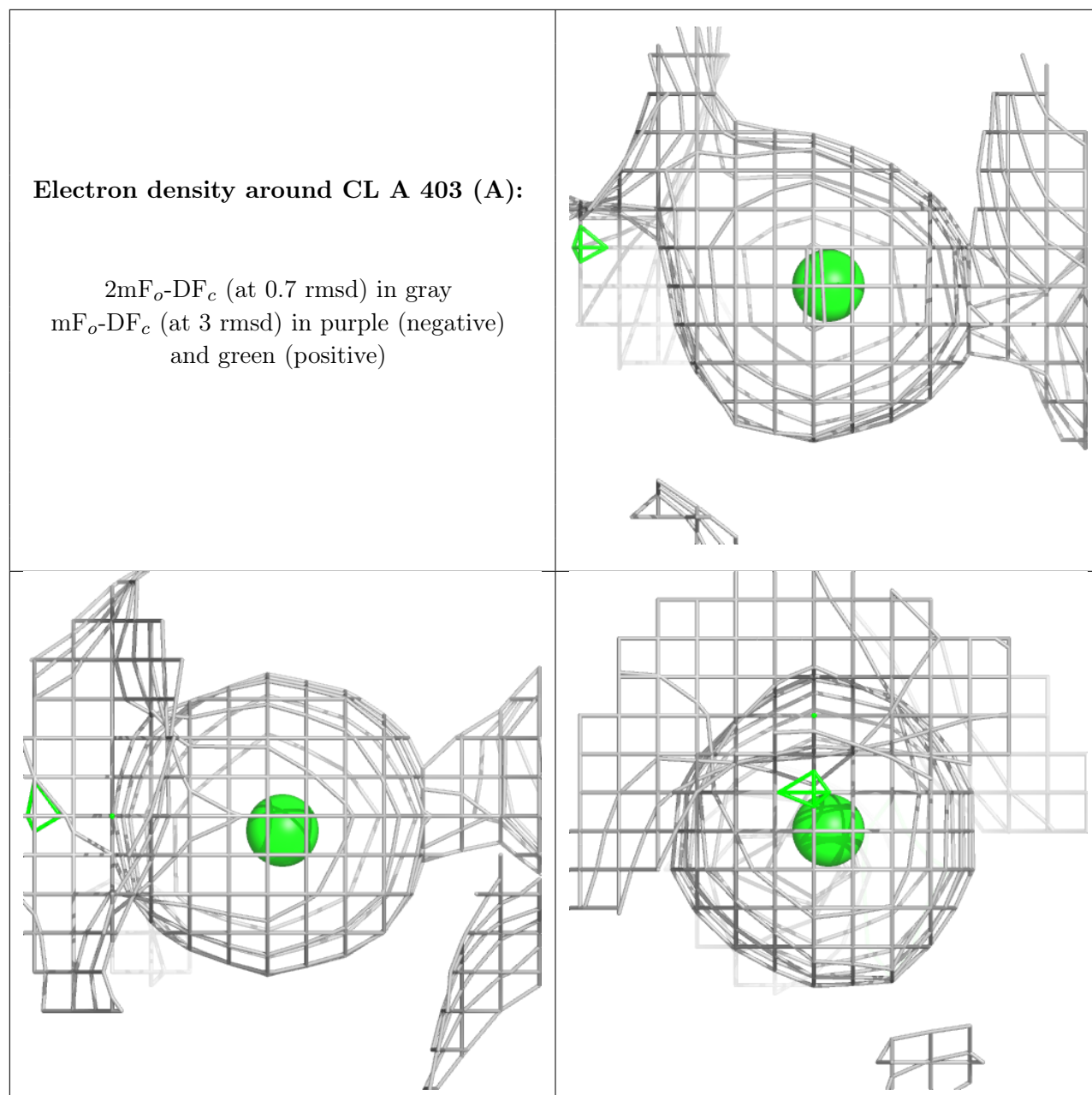
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

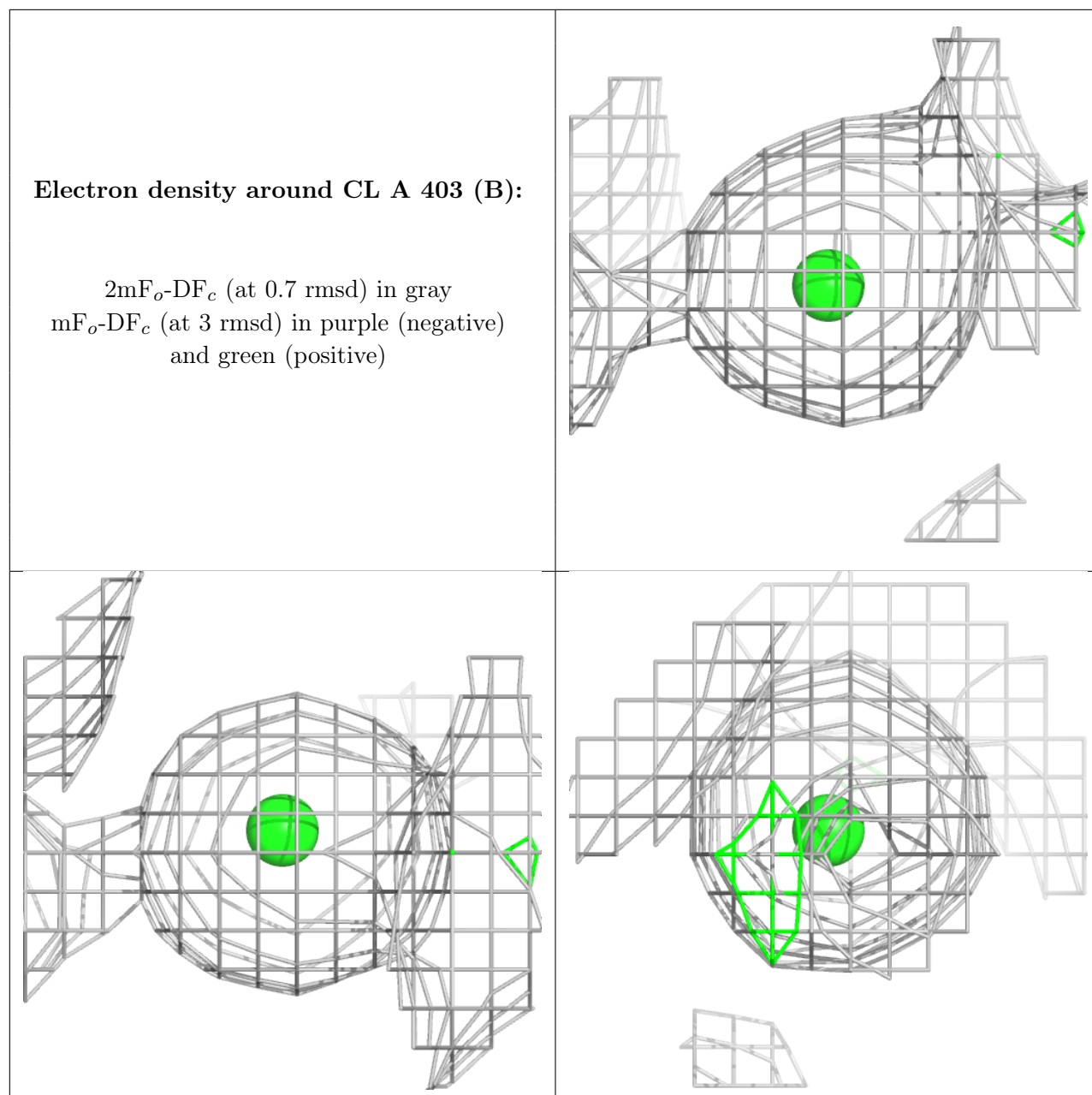


**Electron density around FE2 a 401 (B):**

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

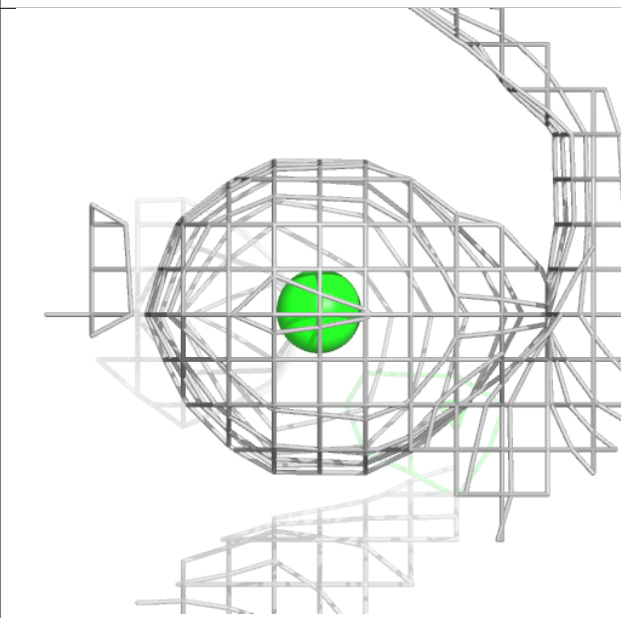
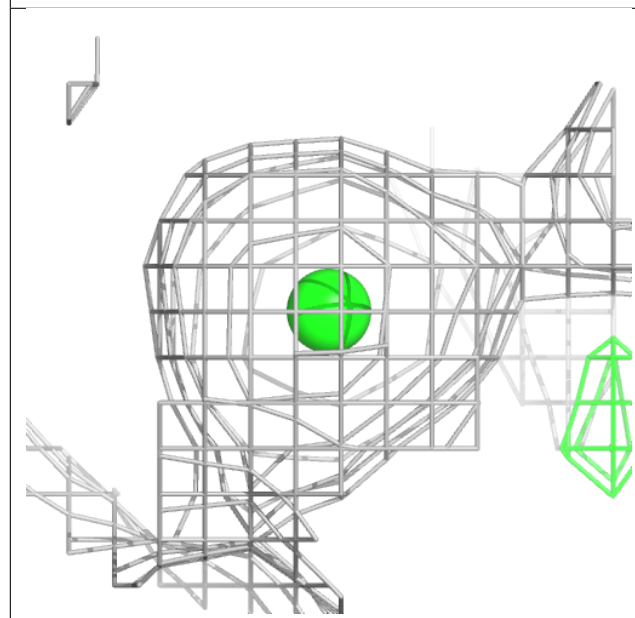
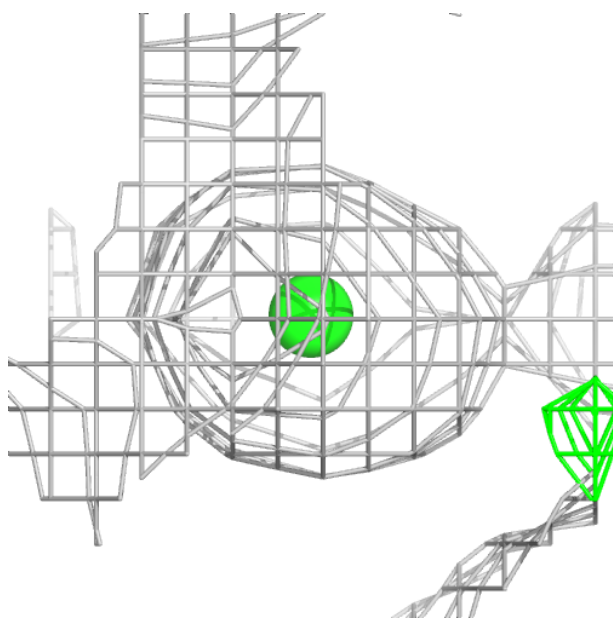






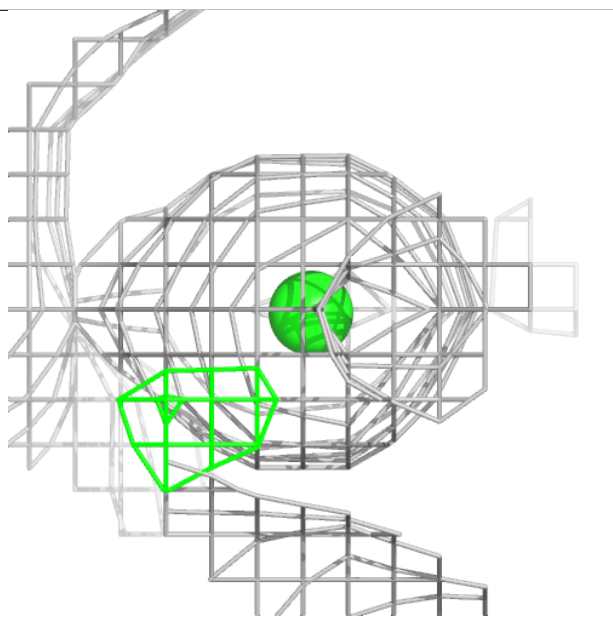
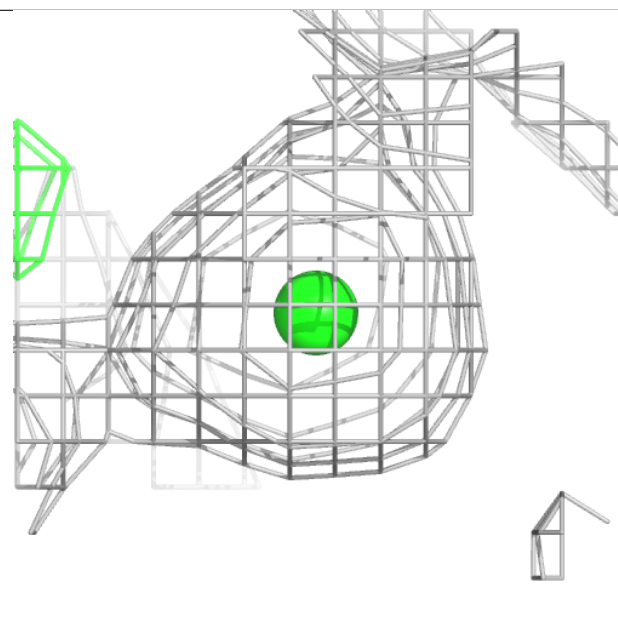
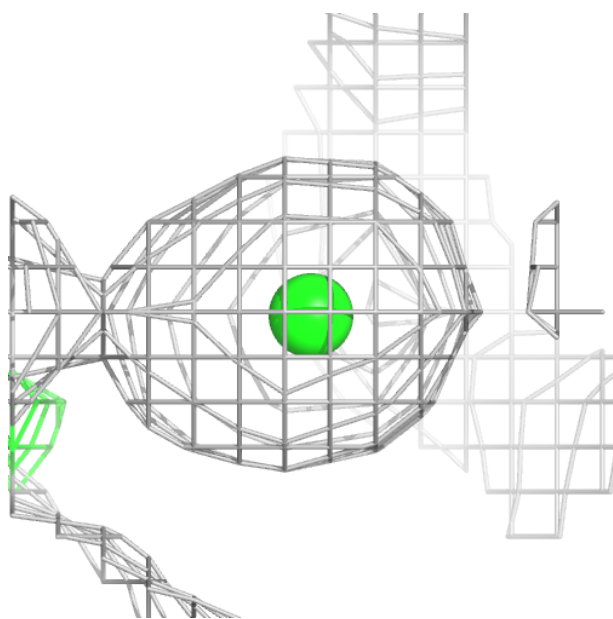
**Electron density around CL a 403 (A):**

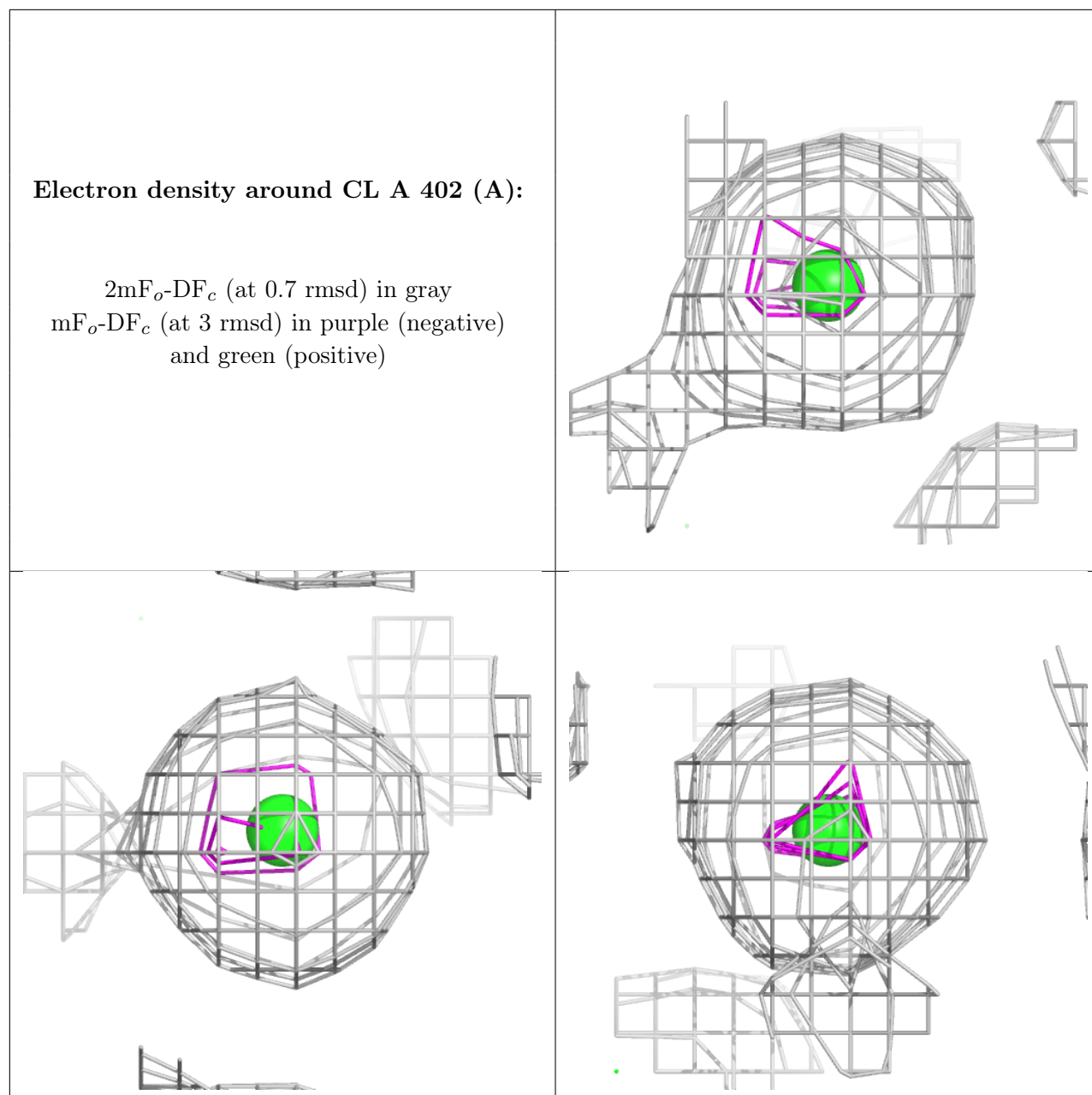
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



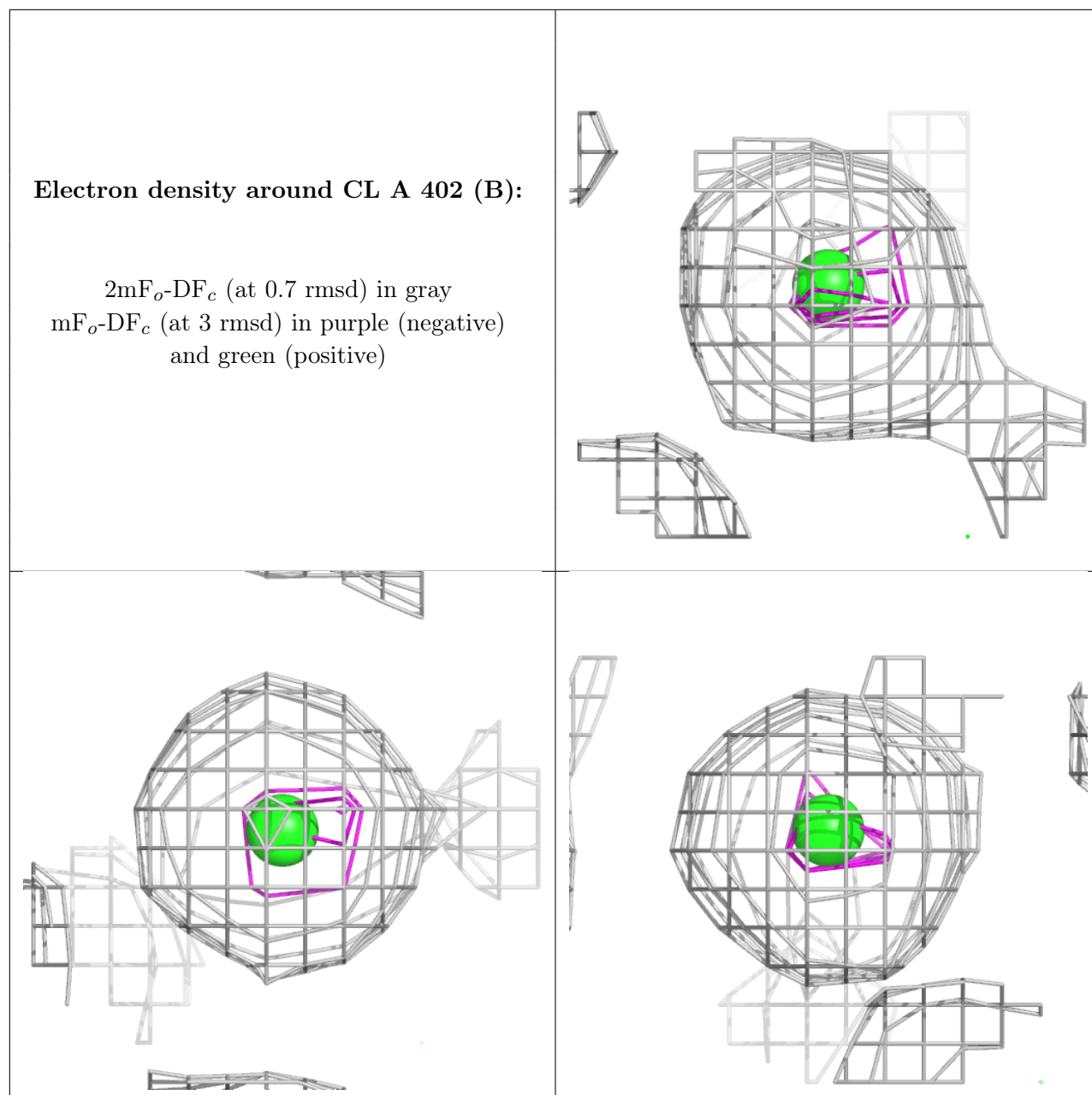
**Electron density around CL a 403 (B):**

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



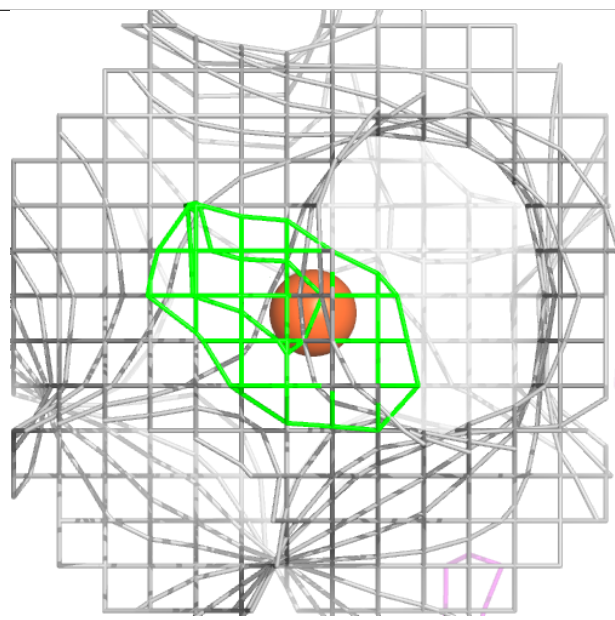
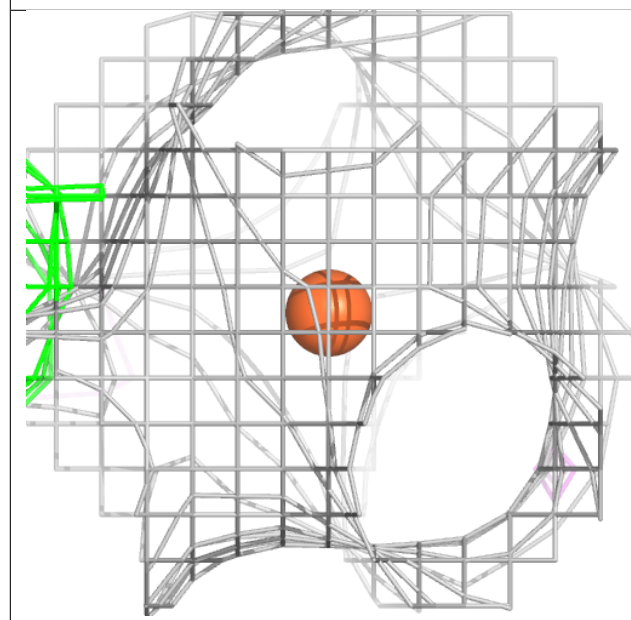
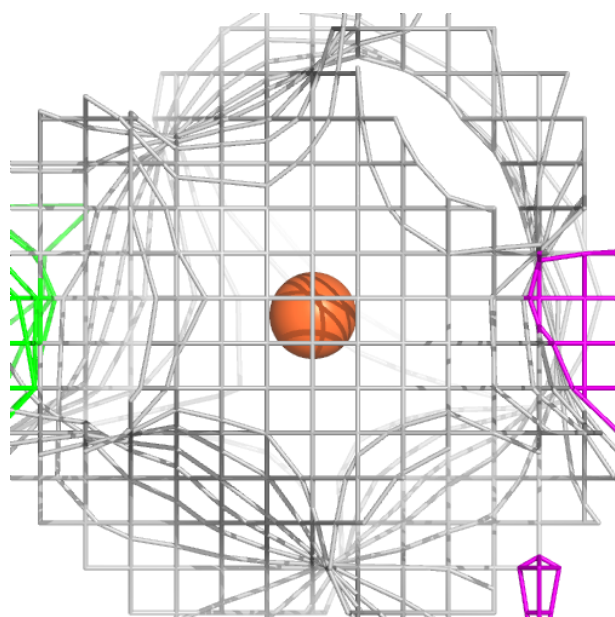






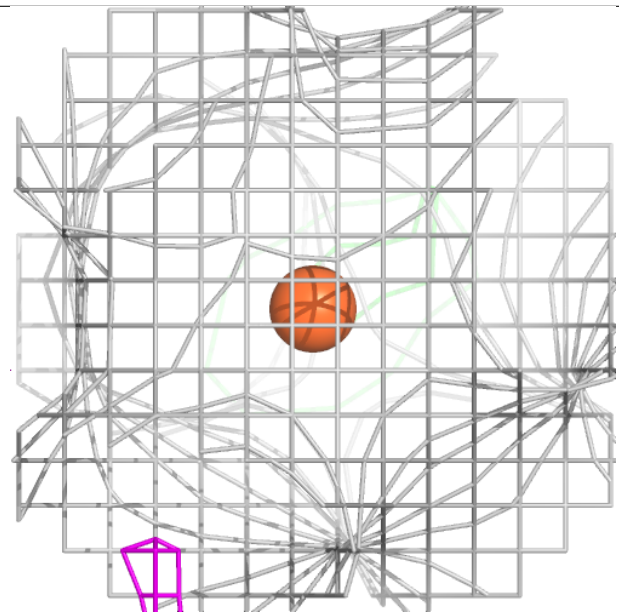
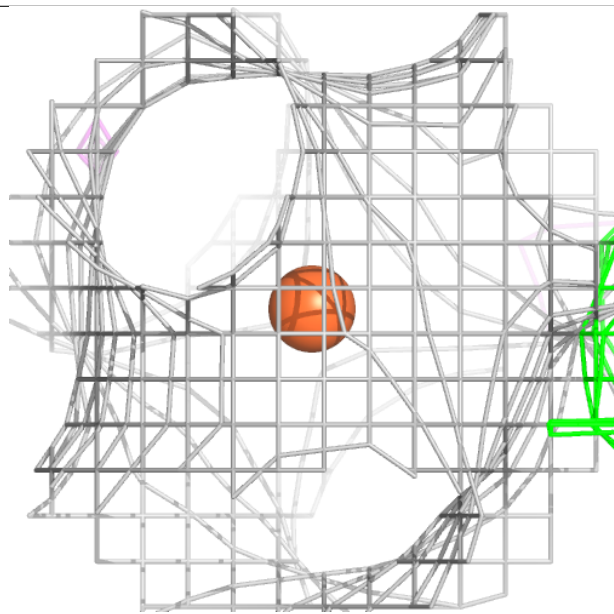
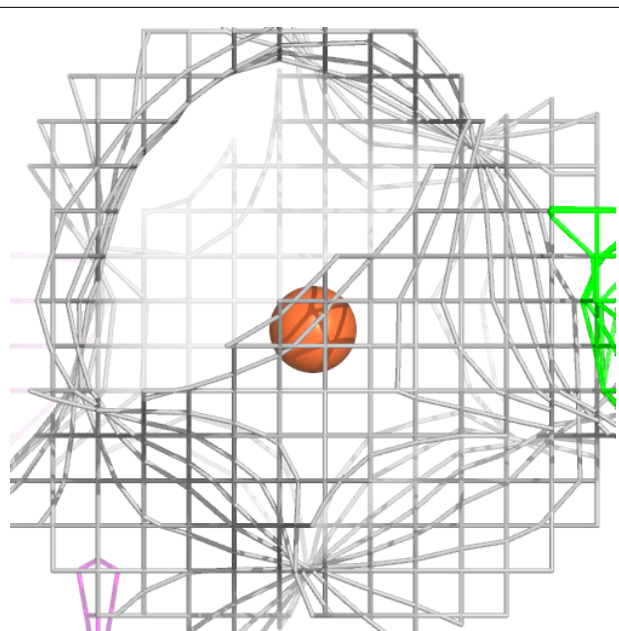
**Electron density around FE2 A 401 (A):**

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



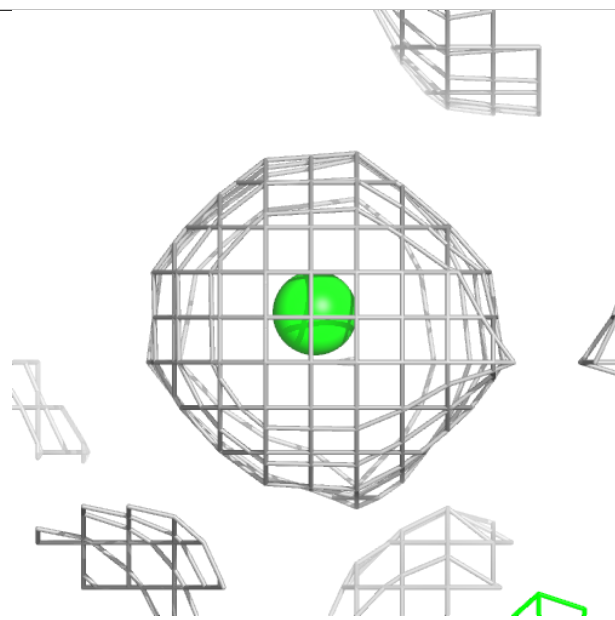
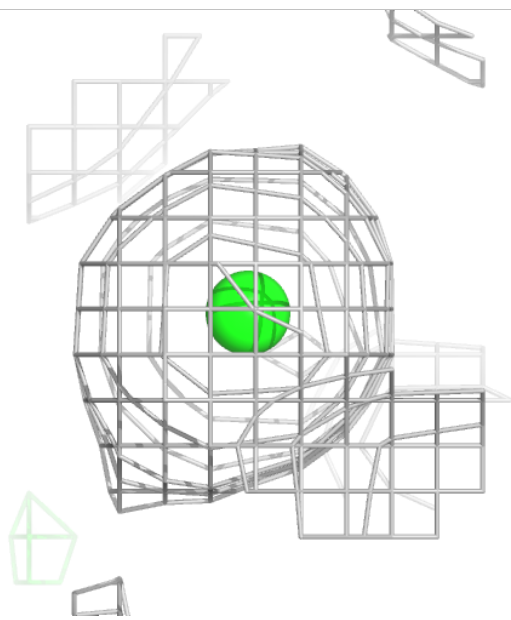
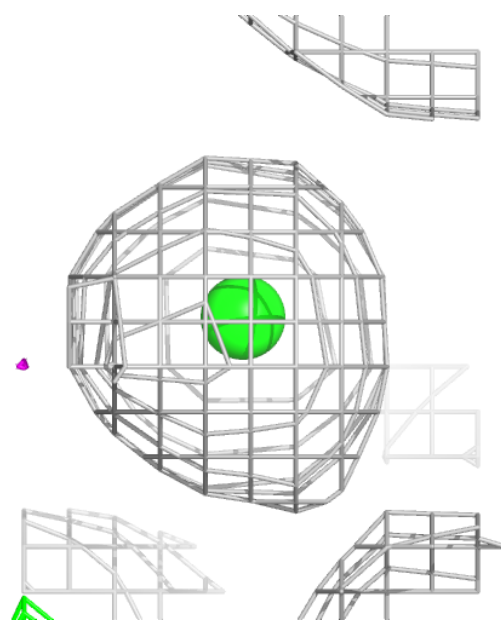
**Electron density around FE2 A 401 (B):**

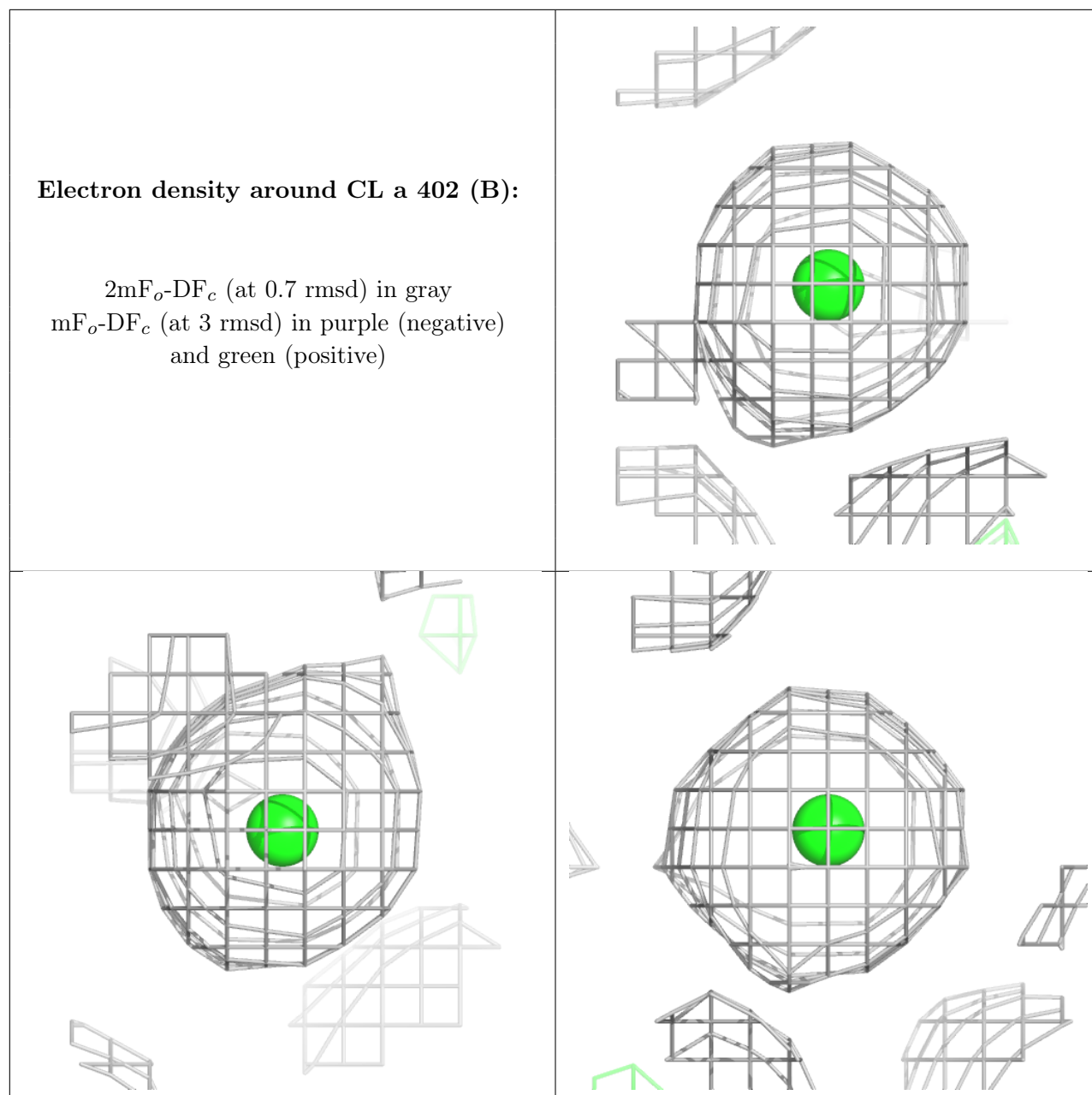
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around CL a 402 (A):**

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





## 6.5 Other polymers [i](#)

There are no such residues in this entry.