



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 23, 2024 – 06:12 PM EDT

PDB ID : 4V62  
Title : Crystal Structure of cyanobacterial Photosystem II  
Authors : Guskov, A.; Gabdulkhakov, A.; Kern, J.; Broser, M.; Zouni, A.; Saenger, W.  
Deposited on : 2008-01-17  
Resolution : 2.90 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)  
Xtriage (Phenix) : 1.13  
EDS : 2.37.1  
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) : 2.37.1

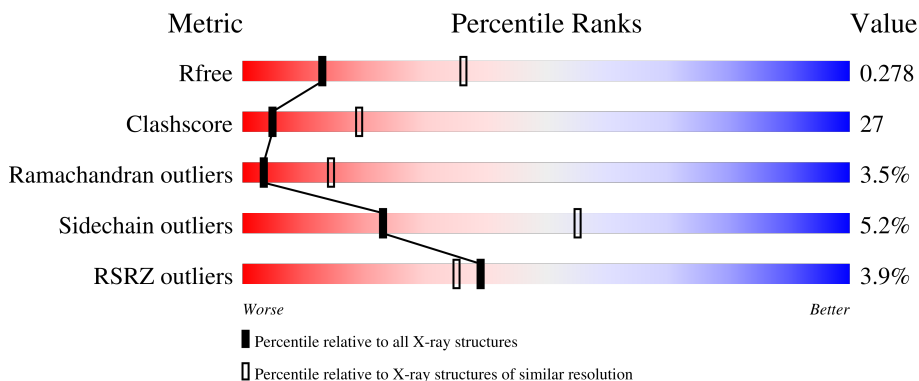
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.90 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	1957 (2.90-2.90)
Clashscore	141614	2172 (2.90-2.90)
Ramachandran outliers	138981	2115 (2.90-2.90)
Sidechain outliers	138945	2117 (2.90-2.90)
RSRZ outliers	127900	1906 (2.90-2.90)

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	AA	344	
1	BA	344	
2	AB	510	
2	BB	510	
3	AC	473	

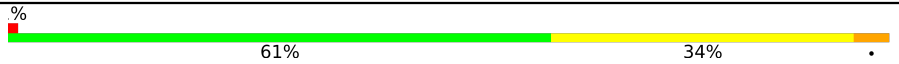

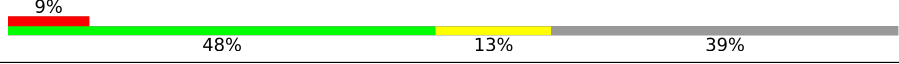
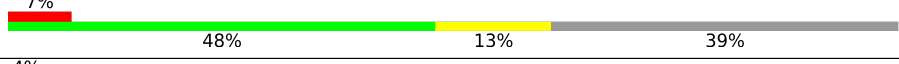
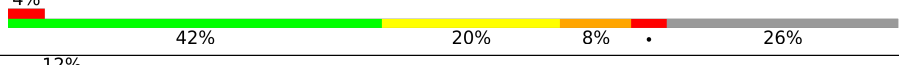
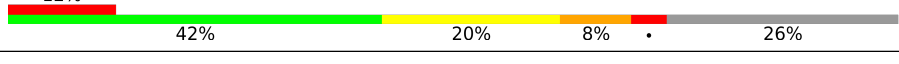
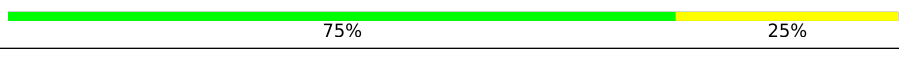

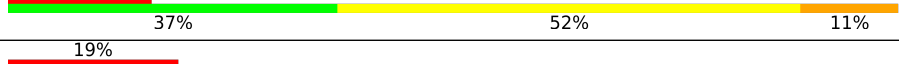
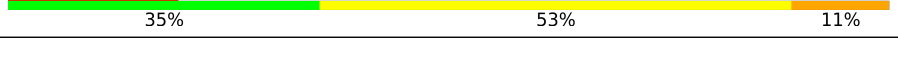
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Mol	Chain	Length	Quality of chain
3	BC	473	
4	AD	352	
4	BD	352	
5	AE	84	
5	BE	84	
6	AF	45	
6	BF	45	
7	AH	66	
7	BH	66	
8	AI	38	
8	BI	38	
9	AJ	40	
9	BJ	40	
10	AK	37	
10	BK	37	
11	AL	37	
11	BL	37	
12	AM	36	
12	BM	36	
13	AO	247	
13	BO	247	
14	AT	32	
14	BT	32	
15	AU	104	
15	BU	104	

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Mol	Chain	Length	Quality of chain
16	AV	137	
16	BV	137	
17	Ay	46	
17	By	46	
18	AX	50	
18	BX	50	
19	AY	28	
19	BY	28	
20	AZ	62	
20	BZ	62	

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
22	CLA	AA	402	X	-	-	-
22	CLA	AA	403	X	-	-	-
22	CLA	AA	404	X	-	-	-
22	CLA	AA	406	X	-	-	-
22	CLA	AB	601	X	-	-	-
22	CLA	AB	602	X	-	-	-
22	CLA	AB	603	X	-	-	-
22	CLA	AB	604	X	-	-	-
22	CLA	AB	605	X	-	-	-
22	CLA	AB	606	X	-	-	-
22	CLA	AB	607	X	-	-	-
22	CLA	AB	608	X	-	-	-
22	CLA	AB	609	X	-	-	-
22	CLA	AB	610	X	-	-	-
22	CLA	AB	611	X	-	-	-
22	CLA	AB	612	X	-	-	-
22	CLA	AB	613	X	-	-	-
22	CLA	AB	614	X	-	-	-
22	CLA	AB	615	X	-	-	-
22	CLA	AB	616	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	AC	501	X	-	-	-
22	CLA	AC	502	X	-	-	-
22	CLA	AC	503	X	-	-	-
22	CLA	AC	504	X	-	-	-
22	CLA	AC	505	X	-	-	-
22	CLA	AC	506	X	-	-	-
22	CLA	AC	507	X	-	-	-
22	CLA	AC	508	X	-	-	-
22	CLA	AC	509	X	-	-	-
22	CLA	AC	510	X	-	-	-
22	CLA	AC	511	X	-	-	-
22	CLA	AC	512	X	-	-	-
22	CLA	AC	513	X	-	-	-
22	CLA	AD	402	X	-	-	-
22	CLA	AD	404	X	-	-	-
22	CLA	BA	403	X	-	-	-
22	CLA	BA	404	X	-	-	-
22	CLA	BA	405	X	-	-	-
22	CLA	BA	407	X	-	-	-
22	CLA	BB	604	X	-	-	-
22	CLA	BB	605	X	-	-	-
22	CLA	BB	606	X	-	-	-
22	CLA	BB	607	X	-	-	-
22	CLA	BB	608	X	-	-	-
22	CLA	BB	609	X	-	-	-
22	CLA	BB	610	X	-	-	-
22	CLA	BB	611	X	-	-	-
22	CLA	BB	612	X	-	-	-
22	CLA	BB	613	X	-	-	-
22	CLA	BB	614	X	-	-	-
22	CLA	BB	615	X	-	-	-
22	CLA	BB	616	X	-	-	-
22	CLA	BB	617	X	-	-	-
22	CLA	BB	618	X	-	-	-
22	CLA	BB	619	X	-	-	-
22	CLA	BC	501	X	-	-	-
22	CLA	BC	502	X	-	-	-
22	CLA	BC	503	X	-	-	-
22	CLA	BC	504	X	-	-	-
22	CLA	BC	505	X	-	-	-
22	CLA	BC	506	X	-	-	-
22	CLA	BC	507	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	BC	508	X	-	-	-
22	CLA	BC	509	X	-	-	-
22	CLA	BC	510	X	-	-	-
22	CLA	BC	511	X	-	-	-
22	CLA	BC	512	X	-	-	-
22	CLA	BC	513	X	-	-	-
22	CLA	BD	402	X	-	-	-
22	CLA	BD	404	X	-	-	-
24	PL9	AJ	101	-	-	-	X
24	PL9	BJ	101	-	-	-	X
26	BCR	AJ	102	-	-	-	X
26	BCR	BJ	102	-	-	-	X
27	DGD	AA	410	X	-	-	-
27	DGD	AB	626	X	-	-	-
27	DGD	AC	516	X	-	-	-
27	DGD	AC	517	X	-	-	-
27	DGD	AC	518	X	-	-	-
27	DGD	AD	410	X	-	-	X
27	DGD	AH	102	X	-	-	-
27	DGD	BA	411	X	-	-	-
27	DGD	BB	602	X	-	-	-
27	DGD	BC	516	X	-	-	-
27	DGD	BC	517	X	-	-	-
27	DGD	BC	518	X	-	-	-
27	DGD	BD	410	X	-	-	X
27	DGD	BH	101	X	-	-	-
28	LHG	AC	521	-	-	-	X
28	LHG	BC	521	-	-	-	X
30	LMG	AA	413	X	-	-	-
30	LMG	AA	416	X	-	-	-
30	LMG	AB	621	X	-	-	-
30	LMG	AB	622	X	-	-	-
30	LMG	AB	623	X	-	-	-
30	LMG	AC	519	X	-	-	-
30	LMG	AC	520	X	-	-	X
30	LMG	AD	407	X	-	-	-
30	LMG	AD	408	X	-	-	-
30	LMG	AE	102	X	-	-	-
30	LMG	AI	101	X	-	-	X
30	LMG	AM	101	X	-	-	-
30	LMG	BA	414	X	-	-	-
30	LMG	BB	623	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
30	LMG	BB	624	X	-	-	-
30	LMG	BC	519	X	-	-	-
30	LMG	BC	520	X	-	-	X
30	LMG	BD	407	X	-	-	-
30	LMG	BD	408	X	-	-	-
30	LMG	BE	102	X	-	-	-
30	LMG	BI	101	X	-	-	-
30	LMG	BM	102	X	-	-	-
32	LMT	AB	624	-	-	-	X
32	LMT	AB	625	-	-	-	X
32	LMT	AB	627	-	-	-	X
32	LMT	AD	411	-	-	-	X
32	LMT	AI	102	-	-	-	X
32	LMT	BB	625	-	-	-	X
32	LMT	BD	411	-	-	-	X
32	LMT	BI	102	-	-	-	X

## 2 Entry composition [i](#)

There are 35 unique types of molecules in this entry. The entry contains 50234 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 Q(B) protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	AA	335	2628	1720	432	461	15	0	0	0
1	BA	335	2628	1720	432	461	15	0	0	0

- Molecule 2 is a protein called Photosystem II core light harvesting protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AB	490	3850	2528	641	668	13	0	0	0
2	BB	490	3850	2528	641	668	13	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	447	3444	2256	576	599	13	0	0	0
3	BC	447	3444	2256	576	599	13	0	0	0

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AC	2	LYS	-	SEE REMARK 999	UNP Q8DIF8
AC	3	THR	-	SEE REMARK 999	UNP Q8DIF8
AC	4	LEU	-	SEE REMARK 999	UNP Q8DIF8
AC	5	SER	-	SEE REMARK 999	UNP Q8DIF8
AC	6	SER	-	SEE REMARK 999	UNP Q8DIF8
AC	7	GLN	-	SEE REMARK 999	UNP Q8DIF8
AC	8	LYS	-	SEE REMARK 999	UNP Q8DIF8
AC	9	ARG	-	SEE REMARK 999	UNP Q8DIF8

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Chain	Residue	Modelled	Actual	Comment	Reference
AC	10	TYR	-	SEE REMARK 999	UNP Q8DIF8
AC	11	SER	-	SEE REMARK 999	UNP Q8DIF8
AC	12	PRO	-	SEE REMARK 999	UNP Q8DIF8
AC	13	VAL	-	SEE REMARK 999	UNP Q8DIF8
BC	2	LYS	-	SEE REMARK 999	UNP Q8DIF8
BC	3	THR	-	SEE REMARK 999	UNP Q8DIF8
BC	4	LEU	-	SEE REMARK 999	UNP Q8DIF8
BC	5	SER	-	SEE REMARK 999	UNP Q8DIF8
BC	6	SER	-	SEE REMARK 999	UNP Q8DIF8
BC	7	GLN	-	SEE REMARK 999	UNP Q8DIF8
BC	8	LYS	-	SEE REMARK 999	UNP Q8DIF8
BC	9	ARG	-	SEE REMARK 999	UNP Q8DIF8
BC	10	TYR	-	SEE REMARK 999	UNP Q8DIF8
BC	11	SER	-	SEE REMARK 999	UNP Q8DIF8
BC	12	PRO	-	SEE REMARK 999	UNP Q8DIF8
BC	13	VAL	-	SEE REMARK 999	UNP Q8DIF8

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AD	340	Total	C	N	O	S	0	0	0
			2706	1794	440	460	12			
4	BD	340	Total	C	N	O	S	0	0	0
			2706	1794	440	460	12			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
5	AE	82	Total	C	N	O	0	0	0
			666	434	108	124			
5	BE	82	Total	C	N	O	0	0	0
			666	434	108	124			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
6	AF	35	Total	C	N	O	S	0	0	0
			282	192	46	43	1			
6	BF	35	Total	C	N	O	S	0	0	0
			282	192	46	43	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AH	65	Total	C	N	O	S	0	0	0
			507	338	81	86	2			
7	BH	65	Total	C	N	O	S	0	0	0
			507	338	81	86	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AI	35	Total	C	N	O	S	0	0	0
			286	195	45	45	1			
8	BI	35	Total	C	N	O	S	0	0	0
			286	195	45	45	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	34	Total	C	N	O	S	0	0	0
			249	170	38	40	1			
9	BJ	34	Total	C	N	O	S	0	0	0
			249	170	38	40	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	37	Total	C	N	O	S	0	0	0
			304	202	48	53	1			
11	BL	37	Total	C	N	O	S	0	0	0
			304	202	48	53	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	34	Total	C	N	O	S	0	0	0
			267	178	40	48	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	BM	34	Total	C	N	O	S	0	0	0
			267	178	40	48	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AO	243	Total	C	N	O	S	0	0	0
			1845	1154	308	379	4			
13	BO	243	Total	C	N	O	S	0	0	0
			1845	1154	308	379	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AT	32	Total	C	N	O	S	0	0	0
			275	192	40	41	2			
14	BT	32	Total	C	N	O	S	0	0	0
			275	192	40	41	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	AU	97	Total	C	N	O	0	0	0
			774	491	129	154			
15	BU	97	Total	C	N	O	0	0	0
			774	491	129	154			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AV	137	Total	C	N	O	S	0	0	0
			1060	673	177	206	4			
16	BV	137	Total	C	N	O	S	0	0	0
			1060	673	177	206	4			

- Molecule 17 is a protein called Protein ycf12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	Ay	28	Total	C	N	O	S	0	0	0
			201	134	33	31	3			
17	By	28	Total	C	N	O	S	0	0	0
			201	134	33	31	3			

- Molecule 18 is a protein called Photosystem II PsbX protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
18	AX	37	Total 270	C 182	N 41	O 47	0	0	0
18	BX	37	Total 270	C 182	N 41	O 47	0	0	0

- Molecule 19 is a protein called Photosystem II protein Y.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
19	AY	28	Total 140	C 84	N 28	O 28	0	0	0
19	BY	28	Total 140	C 84	N 28	O 28	0	0	0

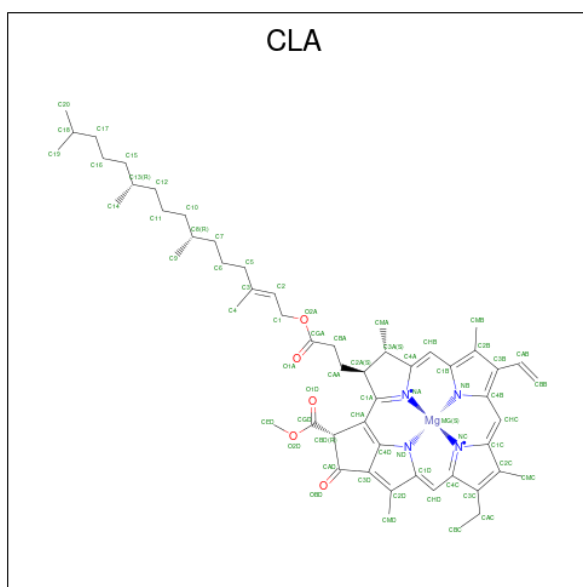
- Molecule 20 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
20	AZ	62	Total 479	C 328	N 72	O 77	S 2	0	0	0
20	BZ	62	Total 479	C 328	N 72	O 77	S 2	0	0	0

- Molecule 21 is FE (II) ION (three-letter code: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
21	AA	1	Total Fe 1 1	0	0
21	BA	1	Total Fe 1 1	0	0

- Molecule 22 is CHLOROPHYLL A (three-letter code: CLA) (formula: C<sub>55</sub>H<sub>72</sub>MgN<sub>4</sub>O<sub>5</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
22	AA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AD	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	AD	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
22	BA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BA	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BB	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

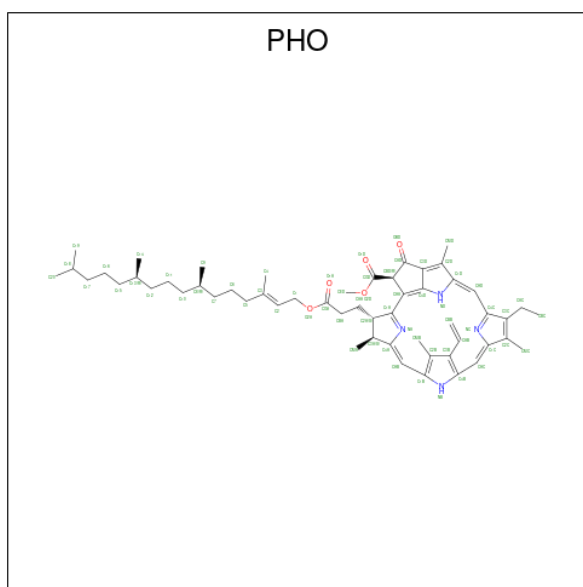
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BC	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BD	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	BD	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

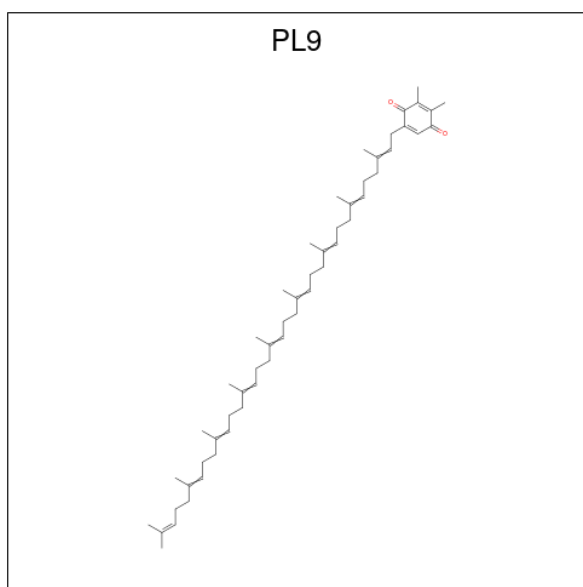
- Molecule 23 is PHEOPHYTIN A (three-letter code: PHO) (formula: C<sub>55</sub>H<sub>74</sub>N<sub>4</sub>O<sub>5</sub>).





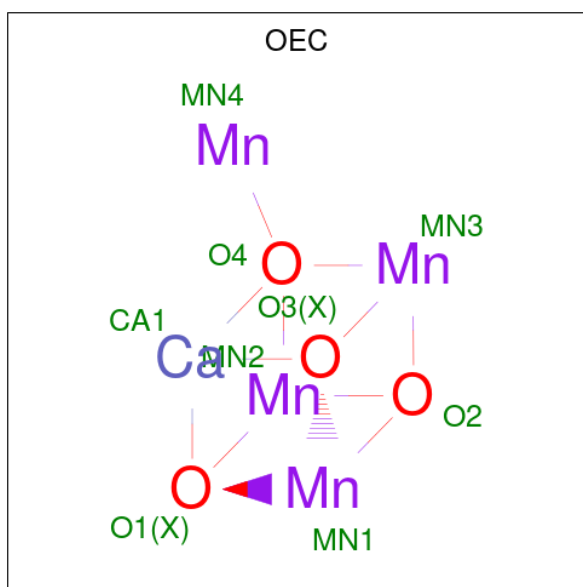
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
23	AA	1	64	55	4	5	0	0
23	AD	1	64	55	4	5	0	0
23	BA	1	64	55	4	5	0	0
23	BD	1	64	55	4	5	0	0

- Molecule 24 is 2,3-DIMETHYL-5-(3,7,11,15,19,23,27,31,35-NONAMETHYL-2,6,10,14,18,22,26,30,34-HEXATRIACONTANONAENYL-2,5-CYCLOHEXADIENE-1,4-DIONE-2,3-DIMETHYL-5-SOLANESYL-1,4-BENZOQUINONE (three-letter code: PL9) (formula:  $C_{53}H_{80}O_2$ ).



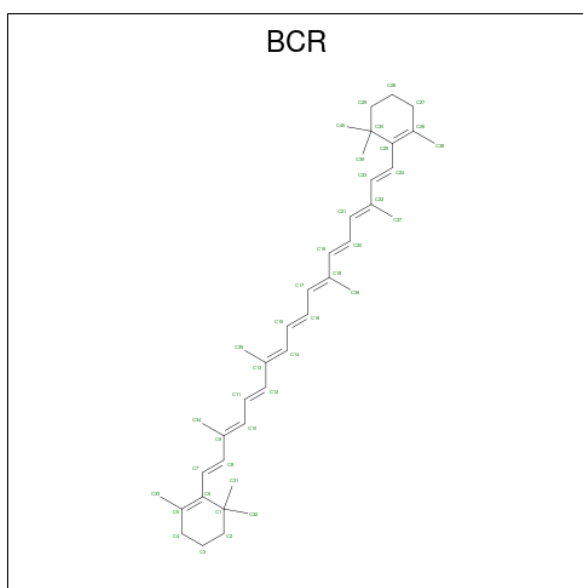
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
24	AA	1	Total	C	O	0	0
			45	43	2		
24	AD	1	Total	C	O	0	0
			55	53	2		
24	AJ	1	Total	C	O	0	0
			35	33	2		
24	BA	1	Total	C	O	0	0
			45	43	2		
24	BD	1	Total	C	O	0	0
			55	53	2		
24	BJ	1	Total	C	O	0	0
			35	33	2		

- Molecule 25 is OXYGEN EVOLVING SYSTEM (three-letter code: OEC) (formula:  $\text{CaMn}_4\text{O}_4$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	Ca	Mn		
25	AA	1	5	1	4	0	0
25	BA	1	5	1	4	0	0

- Molecule 26 is BETA-CAROTENE (three-letter code: BCR) (formula:  $C_{40}H_{56}$ ).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	C		
26	AA	1	40	40	0	0
26	AB	1	40	40	0	0

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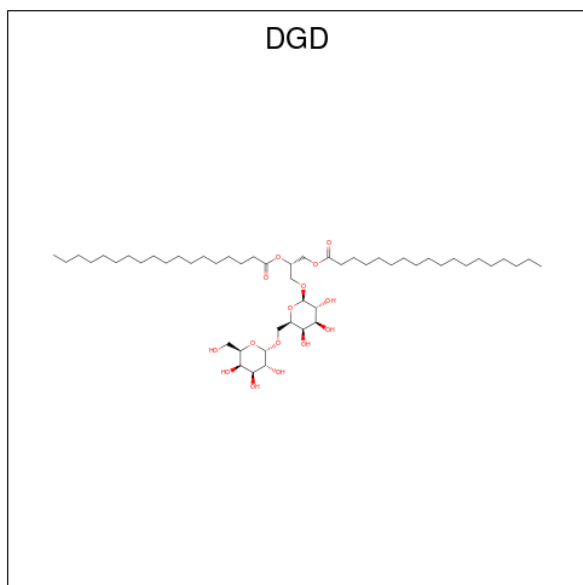
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	AB	1	Total C 40 40	0	0
26	AB	1	Total C 40 40	0	0
26	AB	1	Total C 40 40	0	0
26	AC	1	Total C 40 40	0	0
26	AC	1	Total C 40 40	0	0
26	AD	1	Total C 40 40	0	0
26	AH	1	Total C 40 40	0	0
26	AJ	1	Total C 40 40	0	0
26	AK	1	Total C 40 40	0	0
26	AT	1	Total C 40 40	0	0
26	AZ	1	Total C 40 40	0	0
26	BA	1	Total C 40 40	0	0
26	BB	1	Total C 40 40	0	0
26	BB	1	Total C 40 40	0	0
26	BB	1	Total C 40 40	0	0
26	BC	1	Total C 40 40	0	0
26	BC	1	Total C 40 40	0	0
26	BD	1	Total C 40 40	0	0
26	BJ	1	Total C 40 40	0	0
26	BK	1	Total C 40 40	0	0
26	BX	1	Total C 40 40	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	BZ	1	Total C 40 40	0	0

- Molecule 27 is DIGALACTOSYL DIACYL GLYCEROL (DGD) (three-letter code: DGD) (formula:  $C_{51}H_{96}O_{15}$ ).



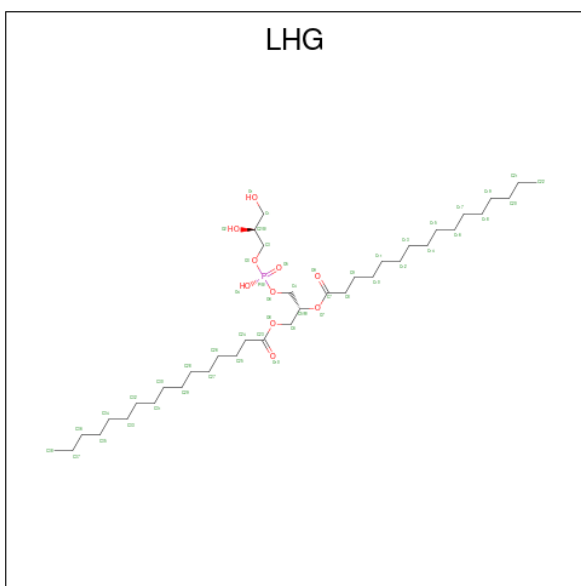
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
27	AA	1	Total C O 56 41 15	0	0
27	AB	1	Total C O 52 37 15	0	0
27	AC	1	Total C O 53 38 15	0	0
27	AC	1	Total C O 62 47 15	0	0
27	AC	1	Total C O 66 51 15	0	0
27	AD	1	Total C O 63 48 15	0	0
27	AH	1	Total C O 58 43 15	0	0
27	BA	1	Total C O 56 41 15	0	0
27	BB	1	Total C O 52 37 15	0	0
27	BC	1	Total C O 53 38 15	0	0

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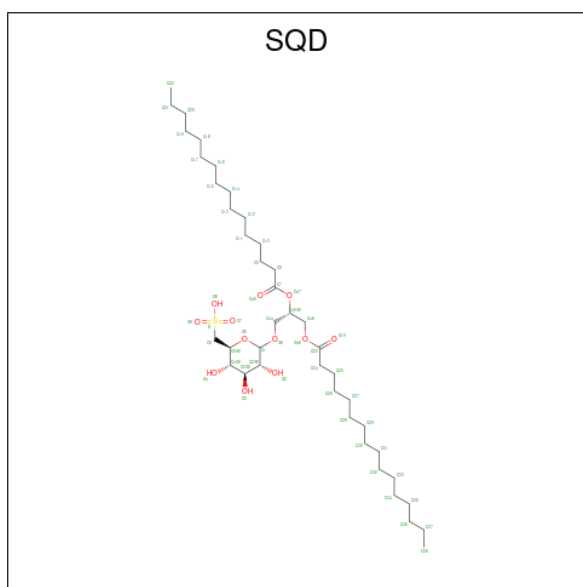
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
27	BC	1	62	47	15	0	0
27	BC	1	66	51	15	0	0
27	BD	1	63	48	15	0	0
27	BH	1	58	43	15	0	0

- Molecule 28 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula: C<sub>38</sub>H<sub>75</sub>O<sub>10</sub>P).



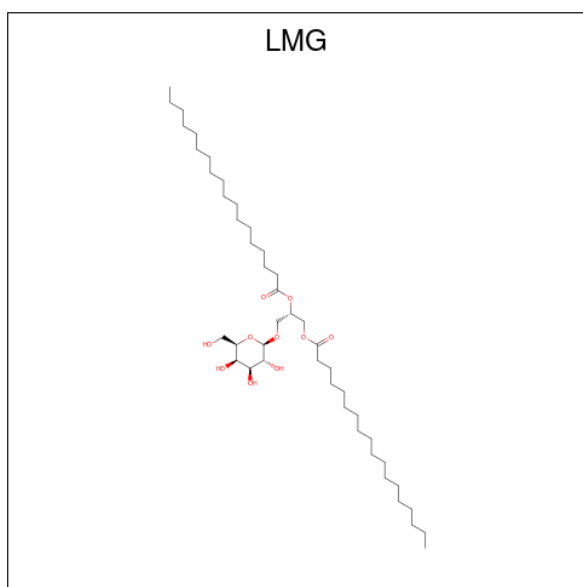
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	P		
28	AA	1	39	28	10	1	0	0
28	AC	1	37	26	10	1	0	0
28	BA	1	39	28	10	1	0	0
28	BC	1	37	26	10	1	0	0

- Molecule 29 is 1,2-DI-O-ACYL-3-O-[6-DEOXY-6-SULFO-ALPHA-D-GLUCOPYRANOSYL]-SN-GLYCEROL (three-letter code: SQD) (formula: C<sub>41</sub>H<sub>78</sub>O<sub>12</sub>S).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	O	S		
29	AA	1	51	38	12	1	0	0
29	AA	1	54	41	12	1	0	0
29	AD	1	43	30	12	1	0	0
29	AF	1	45	32	12	1	0	0
29	BA	1	54	41	12	1	0	0
29	BA	1	51	38	12	1	0	0
29	BB	1	47	34	12	1	0	0
29	BD	1	43	30	12	1	0	0
29	BF	1	45	32	12	1	0	0
29	BL	1	47	34	12	1	0	0

- Molecule 30 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
30	AA	1	Total	C	O	0	0
			51	41	10		
30	AA	1	Total	C	O	0	0
			42	32	10		
30	AB	1	Total	C	O	0	0
			49	39	10		
30	AB	1	Total	C	O	0	0
			49	39	10		
30	AB	1	Total	C	O	0	0
			42	32	10		
30	AC	1	Total	C	O	0	0
			48	38	10		
30	AC	1	Total	C	O	0	0
			45	35	10		
30	AD	1	Total	C	O	0	0
			46	36	10		
30	AD	1	Total	C	O	0	0
			48	38	10		
30	AE	1	Total	C	O	0	0
			44	34	10		
30	AI	1	Total	C	O	0	0
			43	33	10		
30	AM	1	Total	C	O	0	0
			42	32	10		
30	BA	1	Total	C	O	0	0
			51	41	10		
30	BB	1	Total	C	O	0	0
			49	39	10		

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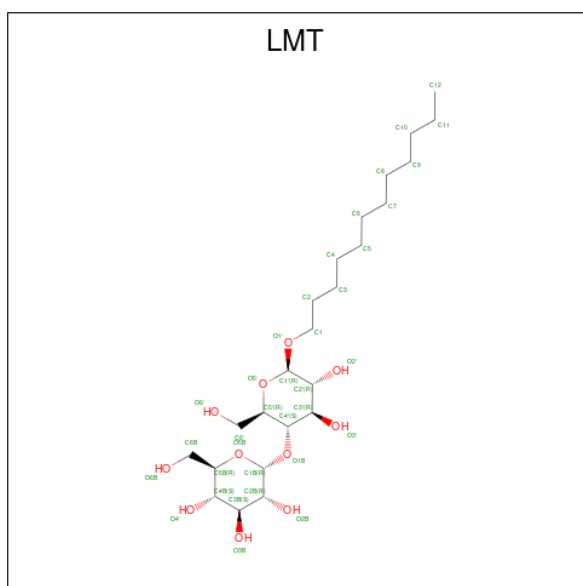
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
30	BB	1	Total	C	O	0	0
			49	39	10		
30	BC	1	Total	C	O	0	0
			48	38	10		
30	BC	1	Total	C	O	0	0
			45	35	10		
30	BD	1	Total	C	O	0	0
			46	36	10		
30	BD	1	Total	C	O	0	0
			48	38	10		
30	BE	1	Total	C	O	0	0
			44	34	10		
30	BI	1	Total	C	O	0	0
			43	33	10		
30	BM	1	Total	C	O	0	0
			42	32	10		

- Molecule 31 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

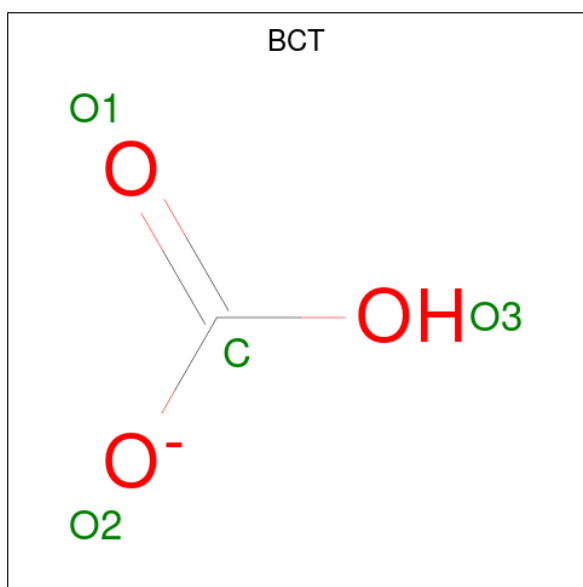
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
31	AA	1	Total	Cl	0	0
			1	1		
31	BA	1	Total	Cl	0	0
			1	1		

- Molecule 32 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: C<sub>24</sub>H<sub>46</sub>O<sub>11</sub>).



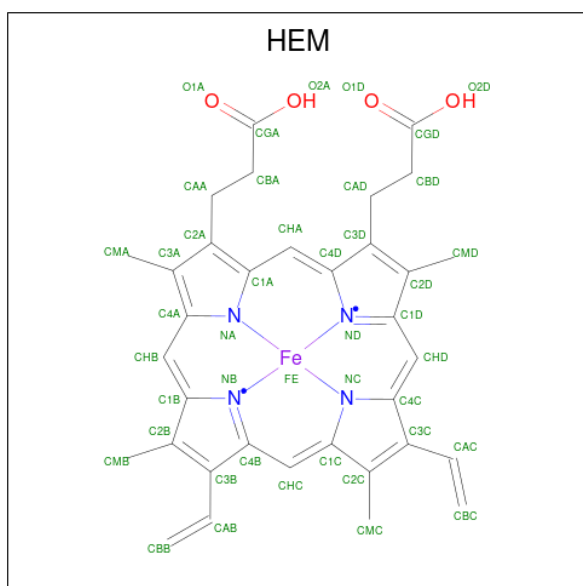
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
32	AB	1	Total	C	O	0	0
			35	24	11		
32	AB	1	Total	C	O	0	0
			35	24	11		
32	AB	1	Total	C	O	0	0
			35	24	11		
32	AD	1	Total	C	O	0	0
			31	20	11		
32	AI	1	Total	C	O	0	0
			35	24	11		
32	AM	1	Total	C	O	0	0
			35	24	11		
32	AT	1	Total	C	O	0	0
			35	24	11		
32	BB	1	Total	C	O	0	0
			35	24	11		
32	BB	1	Total	C	O	0	0
			35	24	11		
32	BB	1	Total	C	O	0	0
			35	24	11		
32	BD	1	Total	C	O	0	0
			31	20	11		
32	BI	1	Total	C	O	0	0
			35	24	11		
32	BM	1	Total	C	O	0	0
			35	24	11		
32	BT	1	Total	C	O	0	0
			35	24	11		

- Molecule 33 is BICARBONATE ION (three-letter code: BCT) (formula:  $\text{CHO}_3$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
33	AD	1	Total	C	O	0	0
			4	1	3		
33	BD	1	Total	C	O	0	0
			4	1	3		

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



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

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
34	AV	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
34	BE	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
34	BV	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

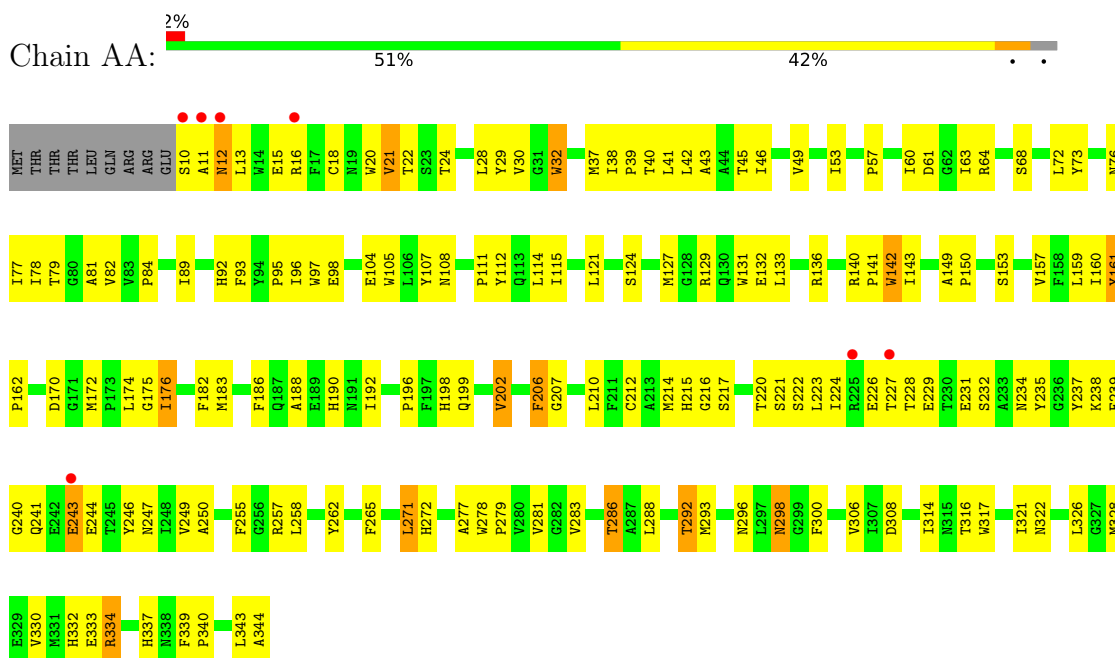
- Molecule 35 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
35	AK	1	Total	Ca	0	0
			1	1		
35	AO	1	Total	Ca	0	0
			1	1		
35	BK	1	Total	Ca	0	0
			1	1		
35	BO	1	Total	Ca	0	0
			1	1		

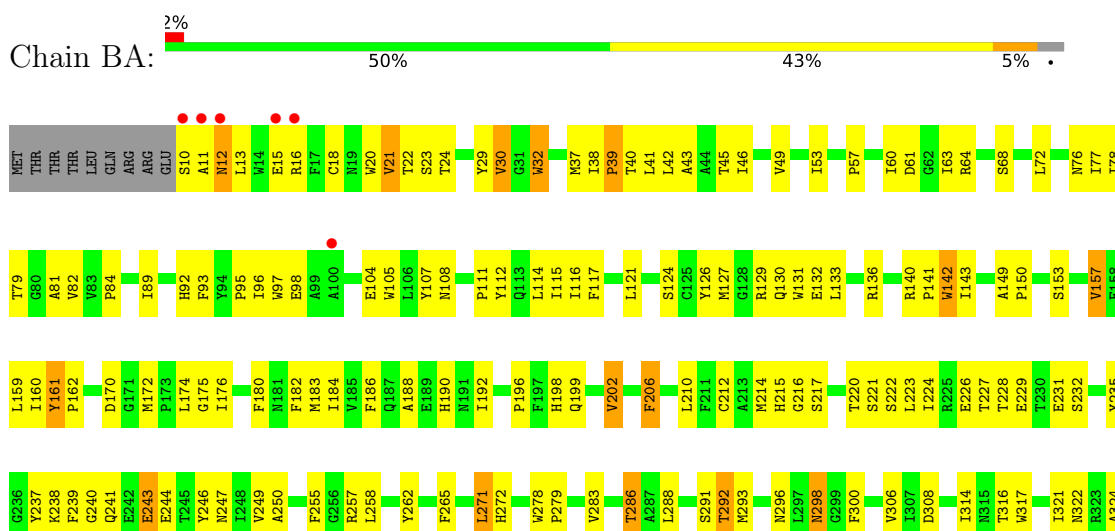
### 3 Residue-property plots

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

- Molecule 1: Photosystem Q(B) protein

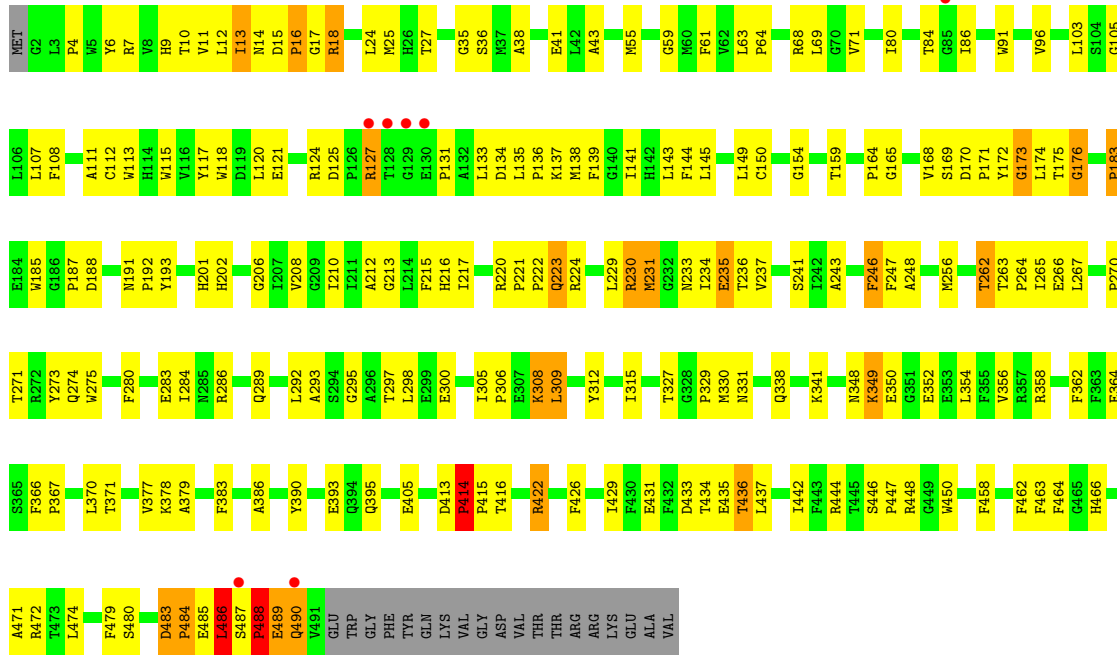


- Molecule 1: Photosystem Q(B) protein

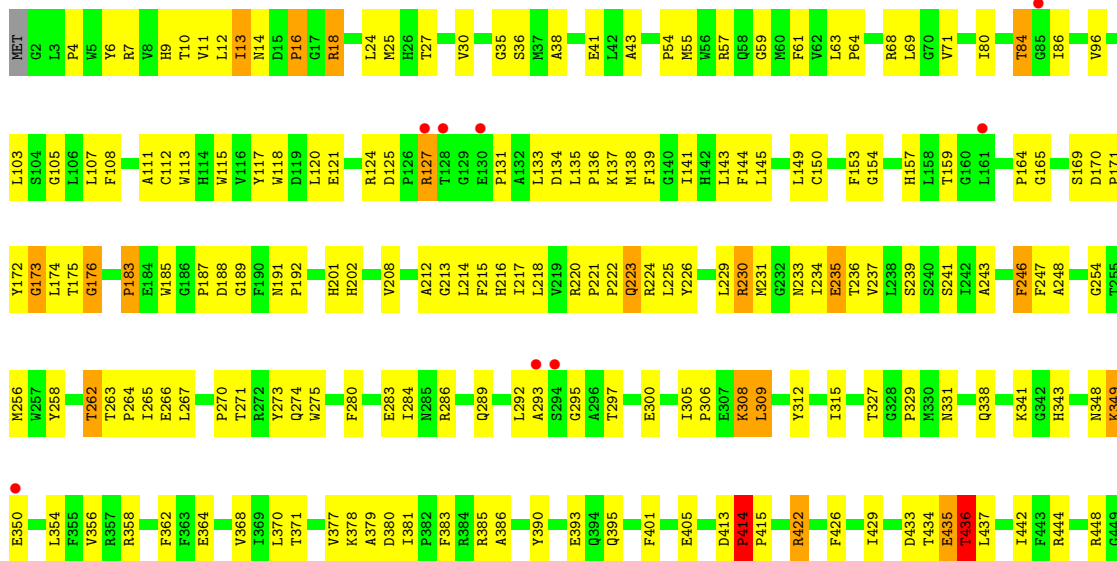


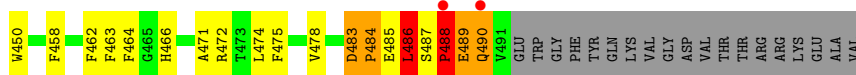


● Molecule 2: Photosystem II core light harvesting protein

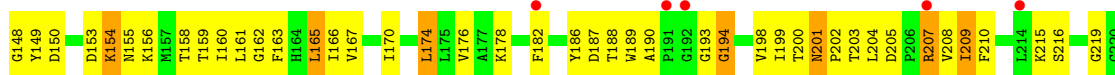
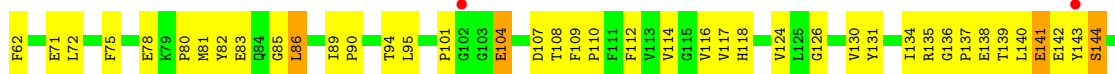
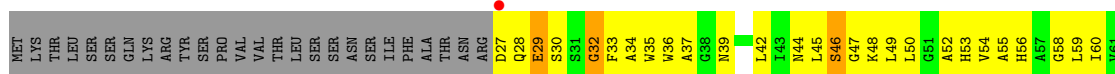


● Molecule 2: Photosystem II core light harvesting protein

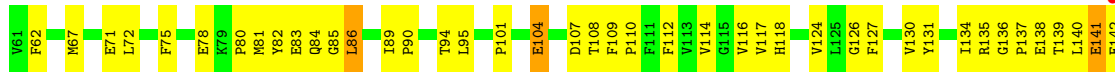




● Molecule 3: Photosystem II CP43 protein

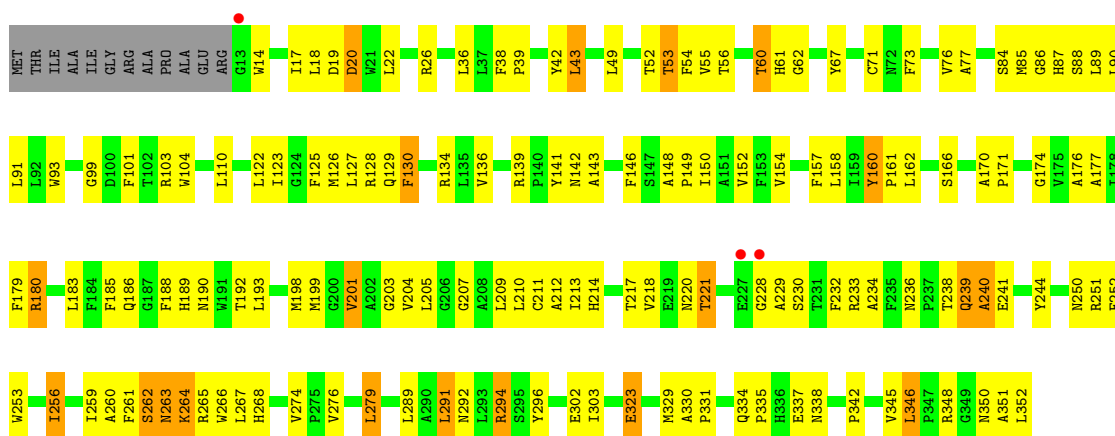


● Molecule 3: Photosystem II CP43 protein

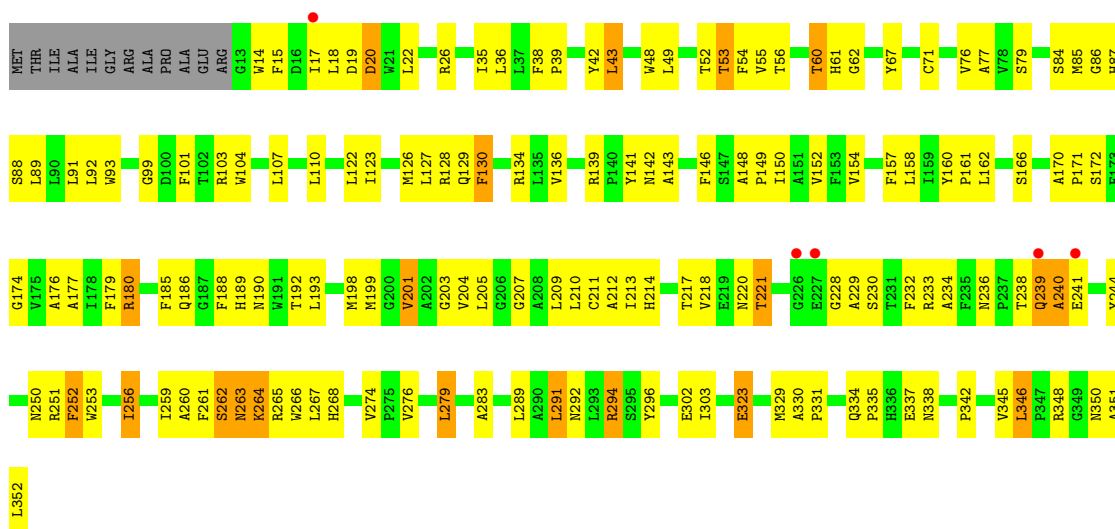




• Molecule 4: Photosystem II reaction center D2 protein



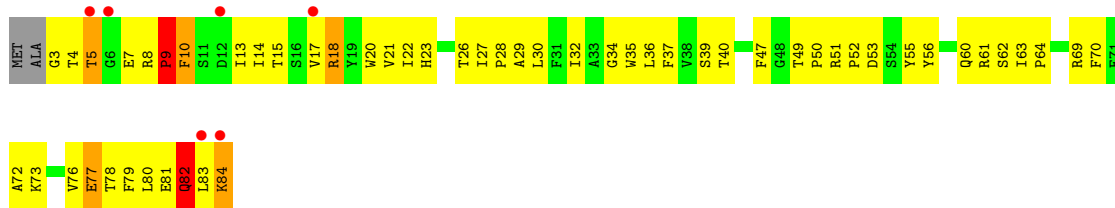
• Molecule 4: Photosystem II reaction center D2 protein



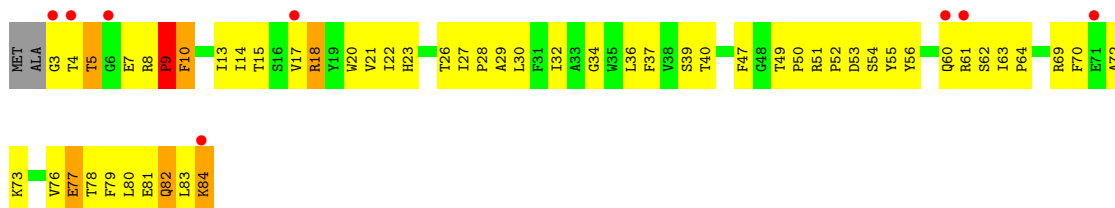
• Molecule 5: Cytochrome b559 subunit alpha



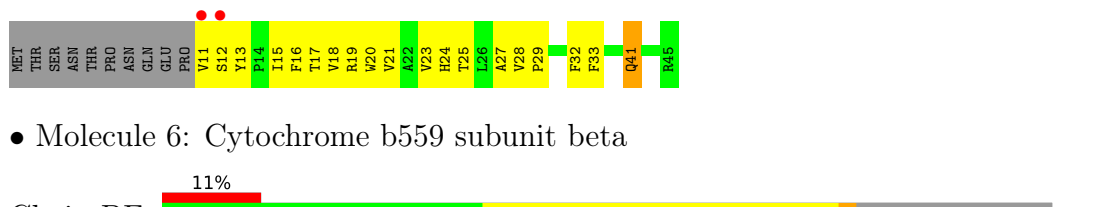




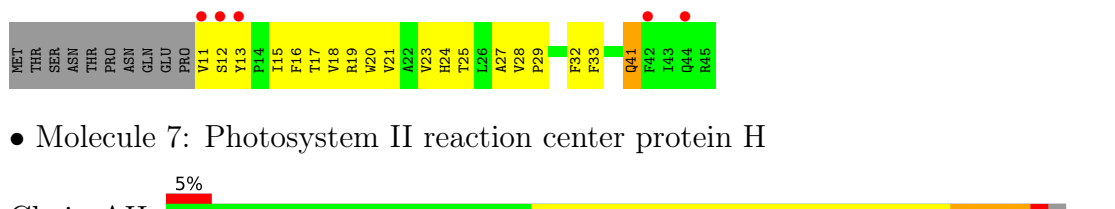
• Molecule 5: Cytochrome b559 subunit alpha



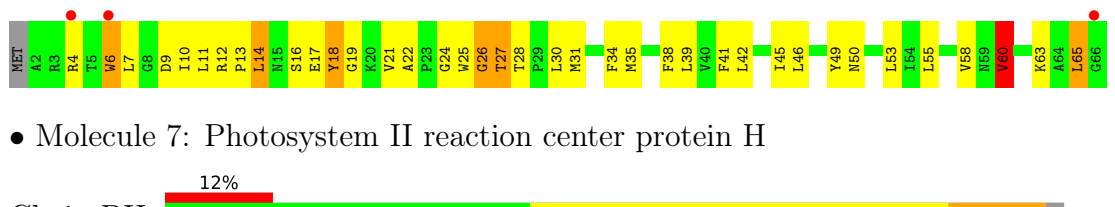
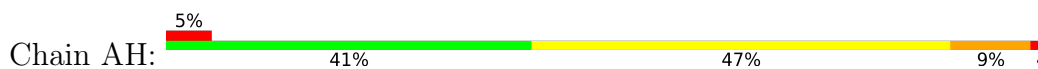
• Molecule 6: Cytochrome b559 subunit beta



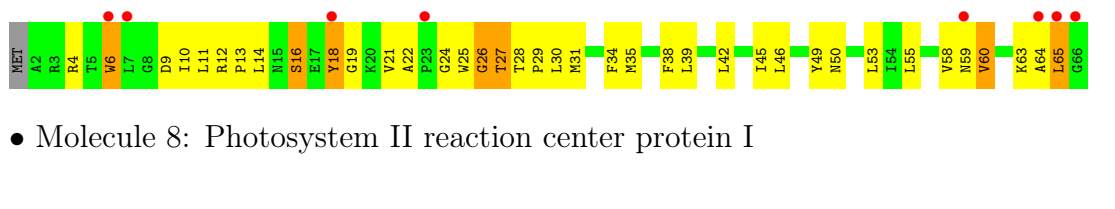
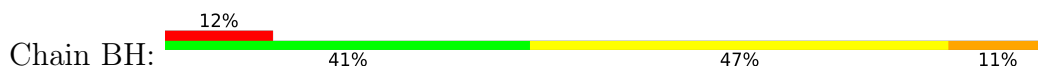
• Molecule 6: Cytochrome b559 subunit beta



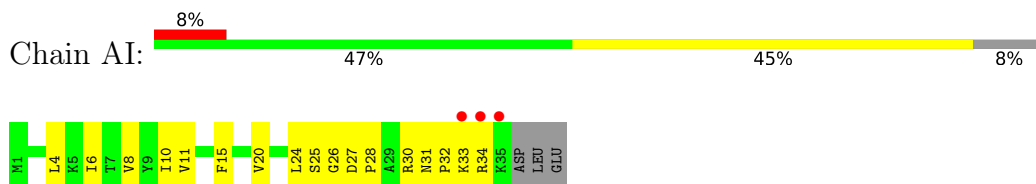
• Molecule 7: Photosystem II reaction center protein H



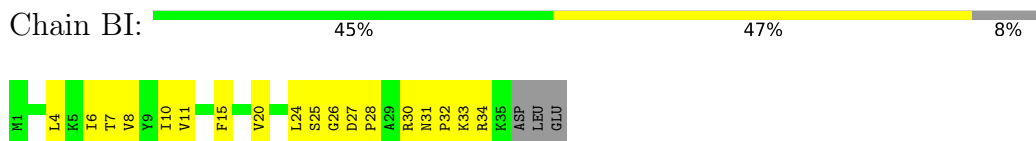
• Molecule 7: Photosystem II reaction center protein H



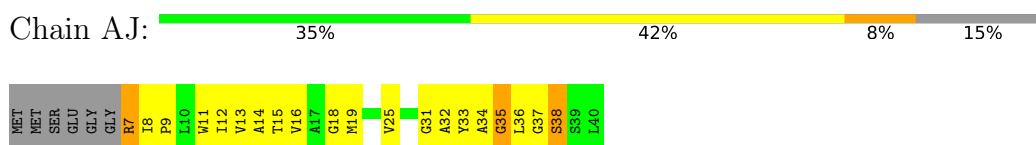
• Molecule 8: Photosystem II reaction center protein I



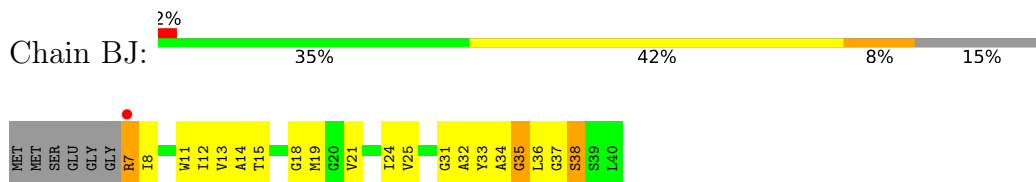
- Molecule 8: Photosystem II reaction center protein I



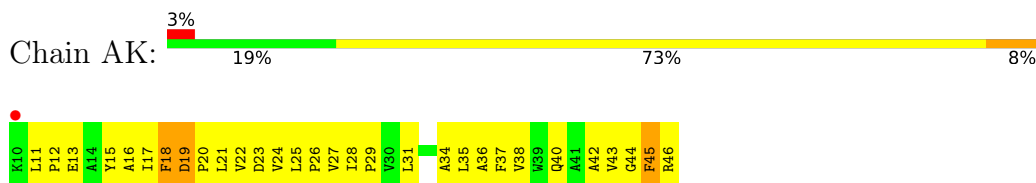
- Molecule 9: Photosystem II reaction center protein J



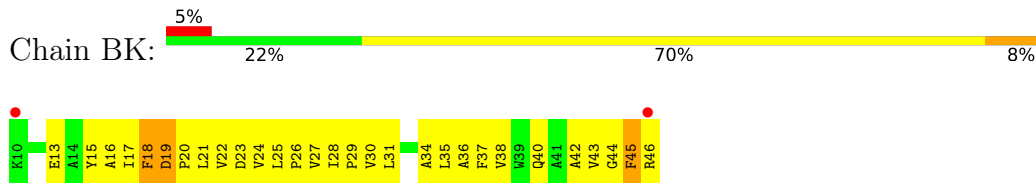
- Molecule 9: Photosystem II reaction center protein J



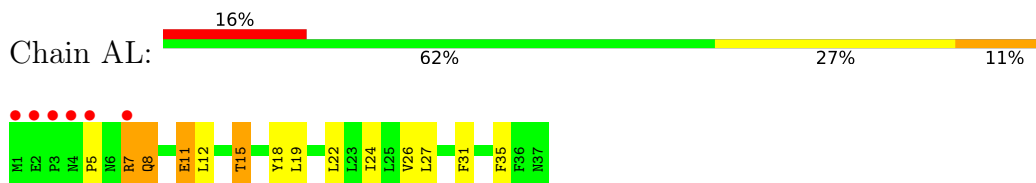
- Molecule 10: Photosystem II reaction center protein K



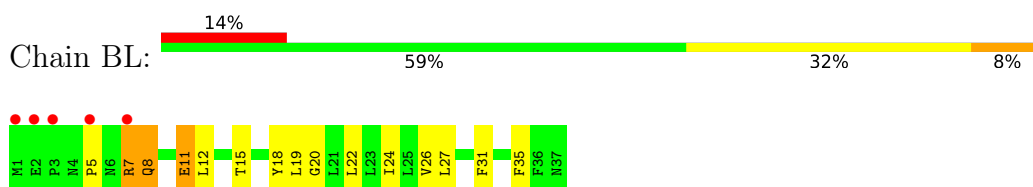
- Molecule 10: Photosystem II reaction center protein K



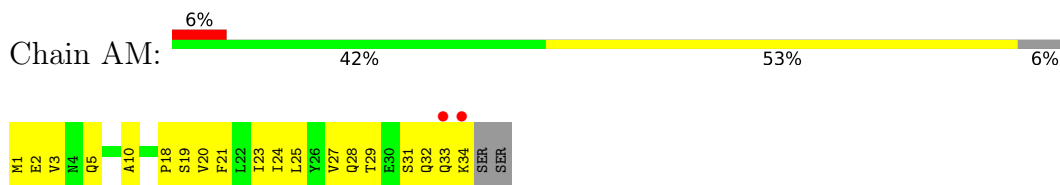
- Molecule 11: Photosystem II reaction center protein L



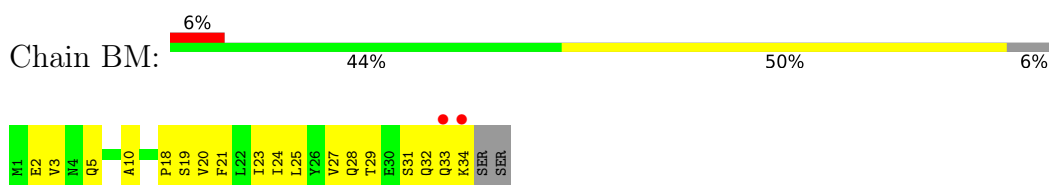
- Molecule 11: Photosystem II reaction center protein L



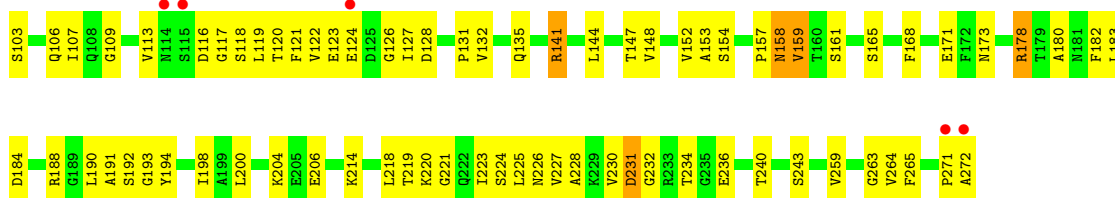
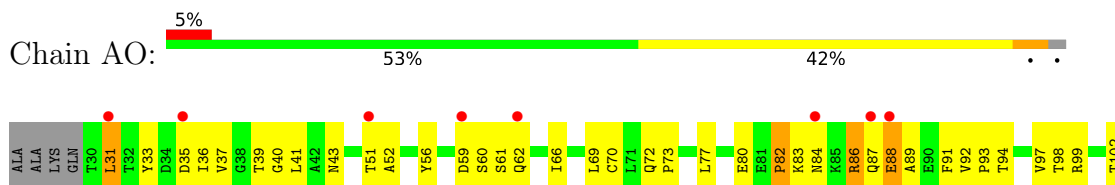
• Molecule 12: Photosystem II reaction center protein M



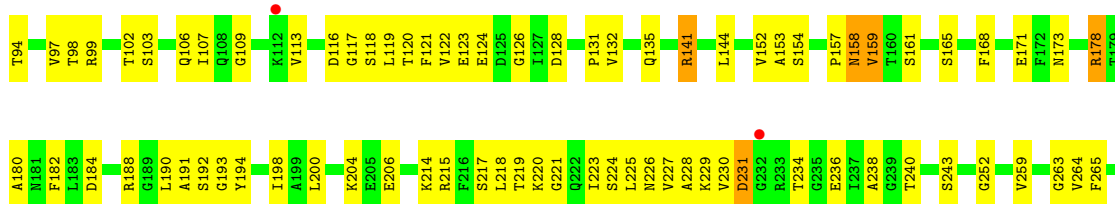
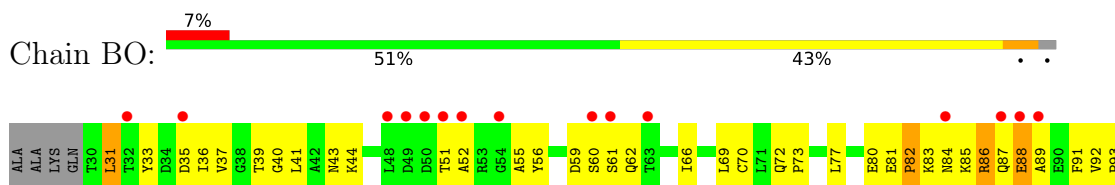
• Molecule 12: Photosystem II reaction center protein M



• Molecule 13: Photosystem II manganese-stabilizing polypeptide



• Molecule 13: Photosystem II manganese-stabilizing polypeptide



P271  
A272

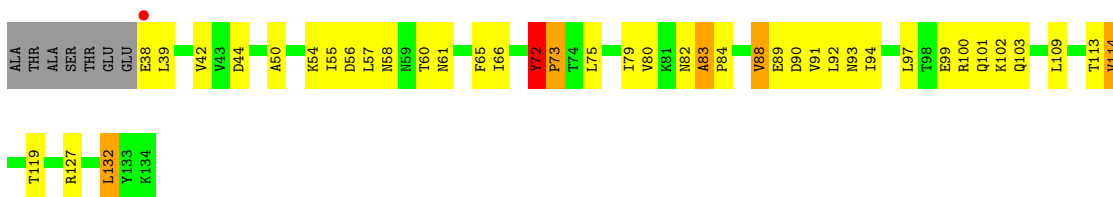
- Molecule 14: Photosystem II reaction center protein T



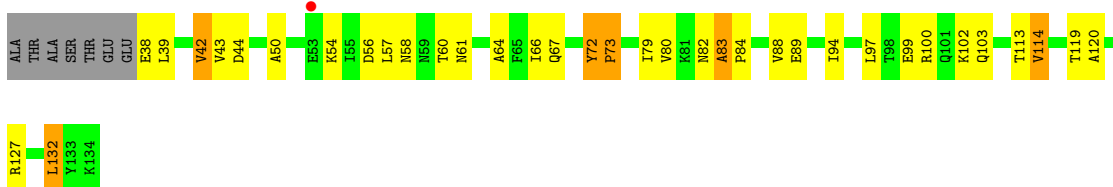
- Molecule 14: Photosystem II reaction center protein T



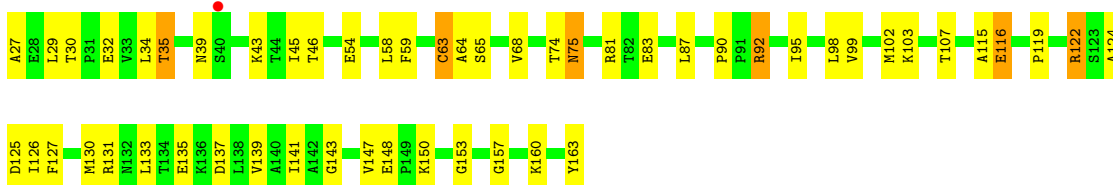
- Molecule 15: Photosystem II 12 kDa extrinsic protein



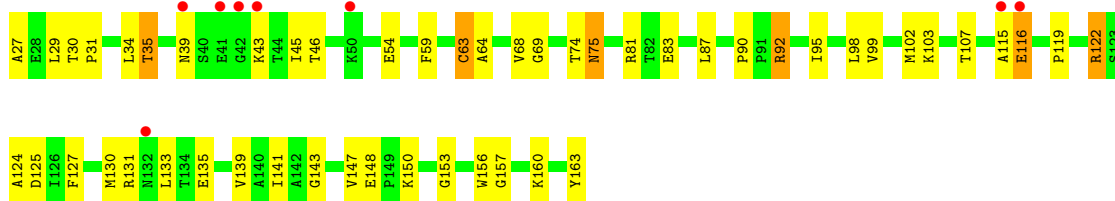
- Molecule 15: Photosystem II 12 kDa extrinsic protein



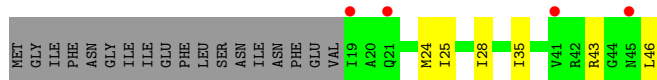
- Molecule 16: Cytochrome c-550



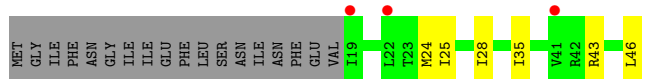
- Molecule 16: Cytochrome c-550



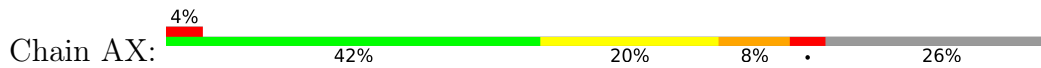
• Molecule 17: Protein ycf12



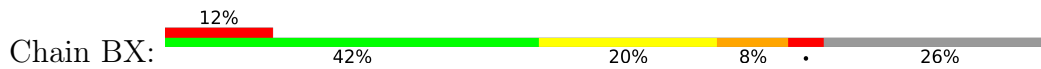
• Molecule 17: Protein ycf12



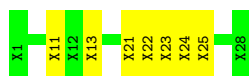
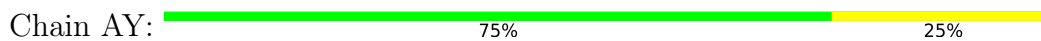
• Molecule 18: Photosystem II PsbX protein



• Molecule 18: Photosystem II PsbX protein

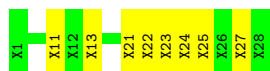


• Molecule 19: Photosystem II protein Y

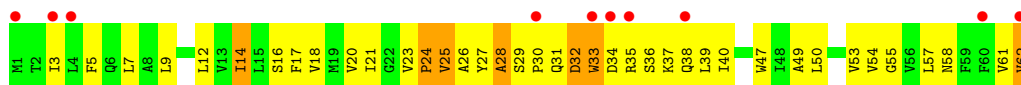


• Molecule 19: Photosystem II protein Y

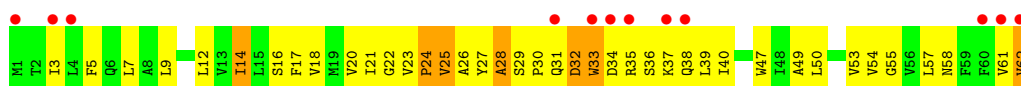




- Molecule 20: Photosystem II reaction center protein Z



- Molecule 20: Photosystem II reaction center protein Z



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	127.69Å 225.40Å 306.11Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 2.90 20.00 – 2.90	Depositor EDS
% Data completeness (in resolution range)	97.7 (10.00-2.90) 99.3 (20.00-2.90)	Depositor EDS
$R_{merge}$	0.09	Depositor
$R_{sym}$	0.10	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.81 (at 2.88Å)	Xtrriage
Refinement program	CNS	Depositor
R, $R_{free}$	0.249 , 0.292 0.242 , 0.278	Depositor DCC
$R_{free}$ test set	3869 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	78.2	Xtrriage
Anisotropy	0.357	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 71.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	50234	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	73.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.57% 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 [i](#)

### 5.1 Standard geometry [i](#)

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

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	AA	0.44	0/2713	0.66	0/3700
1	BA	0.43	0/2713	0.65	0/3700
2	AB	0.44	0/3986	0.67	3/5433 (0.1%)
2	BB	0.43	0/3986	0.66	3/5433 (0.1%)
3	AC	0.41	0/3556	0.64	1/4842 (0.0%)
3	BC	0.39	0/3556	0.63	1/4842 (0.0%)
4	AD	0.47	0/2801	0.65	0/3818
4	BD	0.45	0/2801	0.65	0/3818
5	AE	0.45	0/685	0.71	0/933
5	BE	0.45	0/685	0.70	0/933
6	AF	0.45	0/291	0.59	0/397
6	BF	0.47	0/291	0.57	0/397
7	AH	0.42	0/520	0.73	1/709 (0.1%)
7	BH	0.40	0/520	0.72	1/709 (0.1%)
8	AI	0.51	0/293	0.68	0/395
8	BI	0.50	0/293	0.67	0/395
9	AJ	0.43	0/255	0.69	0/346
9	BJ	0.45	0/255	0.66	0/346
10	AK	0.43	0/303	0.63	0/416
10	BK	0.44	0/303	0.61	0/416
11	AL	0.39	0/311	0.65	0/422
11	BL	0.41	0/311	0.65	0/422
12	AM	0.44	0/270	0.70	0/367
12	BM	0.45	0/270	0.67	0/367
13	AO	0.44	0/1876	0.70	0/2548
13	BO	0.43	0/1876	0.70	0/2548
14	AT	0.50	0/284	0.62	0/381
14	BT	0.48	0/284	0.62	0/381
15	AU	0.42	0/785	0.73	1/1064 (0.1%)
15	BU	0.40	0/785	0.73	0/1064
16	AV	0.38	0/1081	0.65	0/1468
16	BV	0.37	0/1081	0.64	0/1468



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	Ay	0.46	0/202	0.73	0/272
17	By	0.41	0/202	0.74	0/272
18	AX	0.43	0/273	0.63	0/370
18	BX	0.41	0/273	0.63	0/370
20	AZ	0.45	0/490	0.69	0/669
20	BZ	0.47	0/490	0.70	0/669
All	All	0.43	0/41950	0.66	11/57100 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	1
1	BA	0	1
All	All	0	2

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	BB	486	LEU	CA-CB-CG	7.12	131.67	115.30
2	AB	486	LEU	CA-CB-CG	6.99	131.39	115.30
2	AB	488	PRO	N-CA-C	5.86	127.33	112.10
2	AB	489	GLU	N-CA-C	5.76	126.56	111.00
7	AH	65	LEU	CA-CB-CG	5.72	128.45	115.30
7	BH	65	LEU	CA-CB-CG	5.72	128.45	115.30
2	BB	488	PRO	N-CA-C	5.71	126.94	112.10
2	BB	489	GLU	N-CA-C	5.65	126.25	111.00
3	AC	32	GLY	N-CA-C	-5.54	99.24	113.10
3	BC	32	GLY	N-CA-C	-5.09	100.37	113.10
15	AU	72	TYR	N-CA-C	5.05	124.63	111.00

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	161	TYR	Sidechain
1	BA	161	TYR	Sidechain

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

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	2628	0	2524	179	0
1	BA	2628	0	2524	179	0
2	AB	3850	0	3718	224	0
2	BB	3850	0	3718	227	0
3	AC	3444	0	3365	258	0
3	BC	3444	0	3365	263	0
4	AD	2706	0	2608	177	0
4	BD	2706	0	2608	184	0
5	AE	666	0	651	71	0
5	BE	666	0	651	74	0
6	AF	282	0	291	28	0
6	BF	282	0	291	29	0
7	AH	507	0	521	52	0
7	BH	507	0	521	50	0
8	AI	286	0	308	15	0
8	BI	286	0	308	18	0
9	AJ	249	0	262	28	0
9	BJ	249	0	262	26	0
10	AK	293	0	305	42	0
10	BK	293	0	305	44	0
11	AL	304	0	316	15	0
11	BL	304	0	316	17	0
12	AM	267	0	289	27	0
12	BM	267	0	289	26	0
13	AO	1845	0	1801	115	0
13	BO	1845	0	1801	118	0
14	AT	275	0	288	21	0
14	BT	275	0	288	20	0
15	AU	774	0	773	46	0
15	BU	774	0	773	42	0
16	AV	1060	0	1068	42	0
16	BV	1060	0	1068	39	0
17	Ay	201	0	226	0	0
17	By	201	0	226	0	0
18	AX	270	0	299	27	0
18	BX	270	0	299	25	0
19	AY	140	0	32	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	BY	140	0	32	6	0
20	AZ	479	0	516	54	0
20	BZ	479	0	516	55	0
21	AA	1	0	0	0	0
21	BA	1	0	0	0	0
22	AA	260	0	288	18	0
22	AB	1040	0	1152	77	0
22	AC	845	0	936	61	0
22	AD	130	0	144	11	0
22	BA	260	0	288	18	0
22	BB	1040	0	1152	83	0
22	BC	845	0	936	62	0
22	BD	130	0	144	12	0
23	AA	64	0	74	5	0
23	AD	64	0	74	2	0
23	BA	64	0	74	5	0
23	BD	64	0	74	5	0
24	AA	45	0	61	5	0
24	AD	55	0	80	9	0
24	AJ	35	0	45	0	0
24	BA	45	0	61	6	0
24	BD	55	0	80	8	0
24	BJ	35	0	45	0	0
25	AA	5	0	0	0	0
25	BA	5	0	0	0	0
26	AA	40	0	56	6	0
26	AB	160	0	224	10	0
26	AC	80	0	112	15	0
26	AD	40	0	56	3	0
26	AH	40	0	56	5	0
26	AJ	40	0	56	5	0
26	AK	40	0	56	13	0
26	AT	40	0	56	8	0
26	AZ	40	0	56	5	0
26	BA	40	0	56	3	0
26	BB	120	0	168	5	0
26	BC	80	0	112	17	0
26	BD	40	0	56	3	0
26	BJ	40	0	56	5	0
26	BK	40	0	56	13	0
26	BX	40	0	56	6	0
26	BZ	40	0	56	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	AA	56	0	70	0	0
27	AB	52	0	62	3	0
27	AC	181	0	245	19	0
27	AD	63	0	87	0	0
27	AH	58	0	74	1	0
27	BA	56	0	70	0	0
27	BB	52	0	62	3	0
27	BC	181	0	245	21	0
27	BD	63	0	87	0	0
27	BH	58	0	74	1	0
28	AA	39	0	51	3	0
28	AC	37	0	44	5	0
28	BA	39	0	51	4	0
28	BC	37	0	44	4	0
29	AA	105	0	145	10	0
29	AD	43	0	49	2	0
29	AF	45	0	53	2	0
29	BA	105	0	145	6	0
29	BB	47	0	60	2	0
29	BD	43	0	49	2	0
29	BF	45	0	53	1	0
29	BL	47	0	60	2	0
30	AA	93	0	126	5	0
30	AB	140	0	190	4	0
30	AC	93	0	126	6	0
30	AD	94	0	128	9	0
30	AE	44	0	58	4	0
30	AI	43	0	56	3	0
30	AM	42	0	54	4	0
30	BA	51	0	72	2	0
30	BB	98	0	136	2	0
30	BC	93	0	126	8	0
30	BD	94	0	128	10	0
30	BE	44	0	58	4	0
30	BI	43	0	56	3	0
30	BM	42	0	54	4	0
31	AA	1	0	0	0	0
31	BA	1	0	0	0	0
32	AB	105	0	138	6	0
32	AD	31	0	35	2	0
32	AI	35	0	46	4	0
32	AM	35	0	46	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
32	AT	35	0	46	3	0
32	BB	105	0	138	5	0
32	BD	31	0	35	1	0
32	BI	35	0	46	3	0
32	BM	35	0	46	1	0
32	BT	35	0	46	3	0
33	AD	4	0	0	1	0
33	BD	4	0	0	1	0
34	AE	43	0	30	5	0
34	AV	43	0	30	3	0
34	BE	43	0	30	6	0
34	BV	43	0	30	3	0
35	AK	1	0	0	0	0
35	AO	1	0	0	0	0
35	BK	1	0	0	0	0
35	BO	1	0	0	0	0
All	All	50234	0	51364	2715	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 27.

All (2715) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AV:63:CYS:SG	34:AV:201:HEM:HAB	1.85	1.16
15:BU:83:ALA:HB1	15:BU:84:PRO:HD2	1.23	1.16
9:AJ:15:THR:HG21	10:AK:38:VAL:HG13	1.23	1.16
16:BV:63:CYS:SG	34:BV:201:HEM:HAB	1.85	1.15
9:BJ:15:THR:HG21	10:BK:38:VAL:HG13	1.24	1.13
2:BB:68:ARG:HH22	22:BB:607:CLA:HED1	1.13	1.11
15:AU:83:ALA:HB1	15:AU:84:PRO:HD2	1.22	1.09
2:AB:68:ARG:HH22	22:AB:604:CLA:HED1	1.12	1.07
1:AA:129:ARG:HH21	4:AD:256:ILE:HD12	1.19	1.06
2:BB:121:GLU:HG2	7:BH:4:ARG:HG2	1.36	1.05
2:AB:121:GLU:HG2	7:AH:4:ARG:HG2	1.36	1.04
13:BO:178:ARG:HH11	13:BO:178:ARG:HG3	1.17	1.04
13:AO:178:ARG:HH11	13:AO:178:ARG:HG3	1.18	1.04
13:AO:82:PRO:HG3	13:AO:89:ALA:HB2	1.37	1.03
3:BC:254:THR:HG22	3:BC:255:THR:H	1.23	1.03
3:AC:254:THR:HG22	3:AC:255:THR:H	1.18	1.03
1:BA:317:TRP:CZ3	4:BD:180:ARG:HD3	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:129:ARG:HH21	4:BD:256:ILE:HD12	1.20	1.00
13:BO:82:PRO:HG3	13:BO:89:ALA:HB2	1.40	1.00
2:AB:149:LEU:HG	22:AB:603:CLA:HBC1	1.44	1.00
1:AA:317:TRP:CZ3	4:AD:180:ARG:HD3	1.95	0.99
12:AM:33:GLN:HB3	12:BM:33:GLN:HB3	1.43	0.97
4:AD:26:ARG:HD3	6:AF:18:VAL:HG11	1.47	0.97
13:AO:230:VAL:HG12	13:AO:231:ASP:H	1.30	0.97
2:BB:149:LEU:HG	22:BB:606:CLA:HBC1	1.45	0.96
13:BO:230:VAL:HG12	13:BO:231:ASP:H	1.32	0.94
13:AO:69:LEU:HB3	13:AO:107:ILE:HB	1.49	0.94
15:AU:83:ALA:HB1	15:AU:84:PRO:CD	1.98	0.93
14:AT:29:ILE:HD12	14:AT:29:ILE:H	1.33	0.92
4:BD:26:ARG:HD3	6:BF:18:VAL:HG11	1.48	0.92
2:BB:271:THR:HG22	2:BB:273:TYR:H	1.35	0.92
15:BU:83:ALA:HB1	15:BU:84:PRO:CD	2.00	0.91
13:BO:69:LEU:HB3	13:BO:107:ILE:HB	1.51	0.91
2:BB:414:PRO:HB2	2:BB:415:PRO:HD3	1.53	0.90
14:BT:29:ILE:H	14:BT:29:ILE:HD12	1.34	0.90
2:BB:68:ARG:NH2	22:BB:607:CLA:HED1	1.87	0.90
13:BO:178:ARG:HH11	13:BO:178:ARG:CG	1.84	0.90
3:BC:473:ASP:HB2	14:BT:26:PRO:HB3	1.54	0.90
3:AC:473:ASP:HB2	14:AT:26:PRO:HB3	1.53	0.89
1:AA:72:LEU:HD13	30:AA:416:LMG:H111	1.55	0.89
1:AA:317:TRP:HZ3	4:AD:180:ARG:HD3	1.37	0.89
22:BB:611:CLA:HMD1	22:BB:613:CLA:HAB	1.53	0.89
22:AD:404:CLA:H42	18:AX:26:GLY:HA3	1.53	0.89
13:BO:69:LEU:HD12	13:BO:70:CYS:H	1.37	0.88
3:AC:224:ILE:O	3:AC:227:VAL:HG23	1.73	0.88
22:BD:404:CLA:H42	18:BX:26:GLY:HA3	1.56	0.88
2:AB:68:ARG:NH2	22:AB:604:CLA:HED1	1.88	0.88
13:AO:178:ARG:HH11	13:AO:178:ARG:CG	1.88	0.87
5:BE:18:ARG:HD2	5:BE:22:ILE:HD11	1.55	0.87
7:BH:12:ARG:O	7:BH:12:ARG:HD3	1.74	0.87
15:AU:72:TYR:HB3	15:AU:73:PRO:HD3	1.57	0.87
2:AB:414:PRO:HB2	2:AB:415:PRO:HD3	1.55	0.87
22:AB:608:CLA:HMD1	22:AB:610:CLA:HAB	1.55	0.86
22:AB:608:CLA:HAB	4:AD:123:ILE:HG23	1.58	0.86
11:BL:5:PRO:HA	11:BL:7:ARG:HH22	1.38	0.86
2:AB:271:THR:HG22	2:AB:273:TYR:H	1.39	0.86
3:AC:305:THR:HG22	3:AC:308:GLU:H	1.40	0.86
4:AD:129:GLN:NE2	4:AD:143:ALA:HA	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:69:LEU:HD12	13:AO:70:CYS:H	1.39	0.85
1:BA:317:TRP:HZ3	4:BD:180:ARG:HD3	1.36	0.85
3:AC:447:ARG:HG2	3:AC:447:ARG:HH11	1.40	0.85
18:AX:12:ILE:HG12	18:AX:16:LEU:HD12	1.56	0.85
3:BC:155:ASN:HD21	3:BC:255:THR:HB	1.39	0.85
3:BC:224:ILE:O	3:BC:227:VAL:HG23	1.76	0.85
7:AH:12:ARG:O	7:AH:12:ARG:HD3	1.76	0.84
34:BE:101:HEM:HBC2	6:BF:27:ALA:HB1	1.58	0.84
11:BL:8:GLN:N	11:BL:8:GLN:HE21	1.74	0.84
34:AE:101:HEM:HBC2	6:AF:27:ALA:HB1	1.59	0.84
2:BB:120:LEU:HD13	22:BB:619:CLA:HMD2	1.60	0.84
5:AE:18:ARG:HD2	5:AE:22:ILE:HD11	1.60	0.84
11:AL:5:PRO:HA	11:AL:7:ARG:HH22	1.39	0.84
3:BC:447:ARG:HH11	3:BC:447:ARG:HG2	1.40	0.84
3:BC:39:ASN:HB2	22:BC:508:CLA:HBA1	1.57	0.84
3:BC:305:THR:HG23	3:BC:307:PRO:HD2	1.59	0.84
3:BC:449:ARG:HE	22:BC:505:CLA:HED1	1.42	0.84
3:AC:155:ASN:HD21	3:AC:255:THR:HB	1.40	0.84
3:AC:305:THR:HG23	3:AC:307:PRO:HD2	1.60	0.84
22:BB:611:CLA:HAB	4:BD:123:ILE:HG23	1.60	0.84
3:BC:305:THR:HG22	3:BC:308:GLU:H	1.40	0.84
15:BU:72:TYR:HB3	15:BU:73:PRO:HD3	1.59	0.83
4:BD:148:ALA:HB3	4:BD:149:PRO:HD3	1.60	0.83
20:BZ:36:SER:HA	20:BZ:39:LEU:HG	1.60	0.83
3:AC:39:ASN:HB2	22:AC:508:CLA:HBA1	1.58	0.83
11:AL:8:GLN:N	11:AL:8:GLN:HE21	1.75	0.83
3:AC:449:ARG:HE	22:AC:505:CLA:HED1	1.43	0.83
22:BA:403:CLA:H152	23:BA:406:PHO:H51	1.60	0.83
3:BC:166:ILE:HG23	3:BC:245:ILE:HG23	1.60	0.83
2:BB:68:ARG:HH22	22:BB:607:CLA:CED	1.91	0.83
2:AB:68:ARG:HH22	22:AB:604:CLA:CED	1.92	0.83
2:BB:124:ARG:HE	2:BB:131:PRO:HD3	1.42	0.83
1:BA:41:LEU:HD13	23:BA:406:PHO:H2	1.61	0.82
18:BX:12:ILE:HG12	18:BX:16:LEU:HD12	1.61	0.82
2:AB:124:ARG:HE	2:AB:131:PRO:HD3	1.43	0.82
3:AC:166:ILE:HG23	3:AC:245:ILE:HG23	1.61	0.81
2:BB:489:GLU:HB2	5:BE:3:GLY:N	1.95	0.81
4:BD:129:GLN:NE2	4:BD:143:ALA:HA	1.97	0.80
2:AB:489:GLU:HB2	5:AE:3:GLY:N	1.96	0.80
13:AO:83:LYS:HG2	13:AO:84:ASN:H	1.46	0.80
22:AA:402:CLA:H152	23:AA:405:PHO:H51	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AD:406:BCR:H403	9:AJ:25:VAL:HG21	1.64	0.80
20:AZ:36:SER:HA	20:AZ:39:LEU:HG	1.64	0.80
1:AA:41:LEU:HD13	23:AA:405:PHO:H2	1.62	0.79
3:AC:254:THR:HG22	3:AC:255:THR:N	1.96	0.79
1:BA:258:LEU:HD12	4:BD:128:ARG:HD3	1.65	0.79
4:AD:148:ALA:HB3	4:AD:149:PRO:HD3	1.63	0.79
13:AO:230:VAL:HG12	13:AO:231:ASP:N	1.98	0.79
13:BO:218:LEU:HD22	15:BU:119:THR:HG21	1.65	0.79
2:AB:187:PRO:HB3	22:AB:601:CLA:HMB2	1.65	0.78
2:AB:348:ASN:HB3	2:AB:354:LEU:HD21	1.65	0.78
1:AA:12:ASN:HD22	1:AA:15:GLU:HB2	1.49	0.78
2:AB:24:LEU:HD21	22:AB:616:CLA:HAB	1.65	0.78
5:AE:84:LYS:HB2	5:AE:84:LYS:NZ	1.97	0.78
4:BD:60:THR:HG23	4:BD:61:HIS:CD2	2.18	0.78
2:AB:271:THR:HG22	2:AB:273:TYR:N	1.98	0.78
13:BO:31:LEU:HB2	13:BO:36:ILE:HD11	1.66	0.78
13:BO:83:LYS:HG2	13:BO:84:ASN:H	1.47	0.78
1:BA:12:ASN:HD22	1:BA:15:GLU:HB2	1.49	0.78
2:AB:120:LEU:HD13	22:AB:616:CLA:HMD2	1.64	0.78
2:BB:271:THR:HG22	2:BB:273:TYR:N	1.98	0.78
11:BL:5:PRO:HA	11:BL:7:ARG:NH2	1.99	0.78
24:BA:408:PL9:H33	4:BD:38:PHE:HD1	1.47	0.77
1:BA:192:ILE:HA	1:BA:293:MET:HE3	1.67	0.77
2:BB:124:ARG:HH11	2:BB:124:ARG:HG3	1.49	0.77
26:BD:406:BCR:H403	9:BJ:25:VAL:HG21	1.64	0.77
24:AA:407:PL9:H33	4:AD:38:PHE:HD1	1.48	0.77
2:BB:187:PRO:HB3	22:BB:604:CLA:HMB2	1.65	0.77
2:BB:24:LEU:HD21	22:BB:619:CLA:HAB	1.67	0.76
22:BC:501:CLA:HMB3	26:BC:515:BCR:H403	1.67	0.76
2:AB:329:PRO:HB3	22:AB:607:CLA:HED1	1.65	0.76
26:BC:514:BCR:H353	26:BK:102:BCR:H321	1.68	0.76
5:BE:84:LYS:HB2	5:BE:84:LYS:NZ	2.00	0.76
2:BB:188:ASP:HA	7:BH:58:VAL:HG23	1.68	0.76
2:BB:329:PRO:HB3	22:BB:610:CLA:HED1	1.67	0.76
13:AO:31:LEU:HB2	13:AO:36:ILE:HD11	1.67	0.76
1:AA:258:LEU:HD12	4:AD:128:ARG:HD3	1.66	0.76
1:AA:57:PRO:HG3	1:AA:68:SER:HB3	1.66	0.76
3:AC:42:LEU:HD13	22:AC:511:CLA:HMA3	1.68	0.76
20:AZ:32:ASP:HB2	20:AZ:35:ARG:HG2	1.67	0.76
2:AB:134:ASP:OD2	2:AB:137:LYS:HE3	1.86	0.75
3:BC:42:LEU:HD13	22:BC:511:CLA:HMA3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:244:TYR:OH	4:BD:264:LYS:HE3	1.86	0.75
1:AA:192:ILE:HA	1:AA:293:MET:HE3	1.68	0.75
3:AC:391:ARG:NH1	3:AC:391:ARG:HB2	2.02	0.75
18:AX:12:ILE:HG23	18:AX:12:ILE:O	1.85	0.75
5:BE:18:ARG:HB3	5:BE:18:ARG:HH11	1.50	0.75
1:BA:57:PRO:HG3	1:BA:68:SER:HB3	1.68	0.75
2:BB:134:ASP:OD2	2:BB:137:LYS:HE3	1.87	0.75
2:AB:483:ASP:CG	2:AB:484:PRO:HD2	2.07	0.75
22:AC:501:CLA:HMB3	26:AC:515:BCR:H403	1.69	0.75
3:BC:254:THR:HG22	3:BC:255:THR:N	2.00	0.75
20:AZ:49:ALA:O	20:AZ:53:VAL:HG23	1.86	0.75
1:BA:214:MET:HA	1:BA:214:MET:CE	2.17	0.74
2:BB:150:CYS:HB2	22:BB:606:CLA:HMC3	1.68	0.74
11:AL:5:PRO:HA	11:AL:7:ARG:NH2	2.00	0.74
1:AA:214:MET:CE	1:AA:214:MET:HA	2.17	0.74
3:AC:155:ASN:HA	3:AC:158:THR:HG22	1.69	0.74
3:AC:241:GLY:O	3:AC:245:ILE:HG13	1.88	0.74
13:BO:230:VAL:HG12	13:BO:231:ASP:N	2.02	0.74
2:AB:137:LYS:HD2	7:AH:14:LEU:O	1.87	0.74
4:AD:244:TYR:OH	4:AD:264:LYS:HE3	1.88	0.74
2:AB:135:LEU:HD23	2:AB:138:MET:HE3	1.70	0.74
4:AD:148:ALA:HB2	4:AD:276:VAL:HG13	1.70	0.74
6:AF:17:THR:HG23	6:AF:20:TRP:H	1.53	0.74
5:BE:17:VAL:O	5:BE:21:VAL:HG23	1.87	0.74
5:AE:18:ARG:HB3	5:AE:18:ARG:HH11	1.52	0.73
13:BO:69:LEU:HD12	13:BO:70:CYS:N	2.03	0.73
3:AC:240:ILE:O	3:AC:244:CYS:HB2	1.88	0.73
4:AD:60:THR:HG23	4:AD:61:HIS:CD2	2.23	0.73
26:AC:514:BCR:H353	26:AK:102:BCR:H321	1.69	0.73
13:AO:218:LEU:HD22	15:AU:119:THR:HG21	1.69	0.73
2:AB:483:ASP:CB	2:AB:484:PRO:HD2	2.17	0.73
2:BB:286:ARG:HH11	2:BB:286:ARG:HG2	1.54	0.73
3:BC:155:ASN:HA	3:BC:158:THR:HG22	1.70	0.73
3:BC:241:GLY:O	3:BC:245:ILE:HG13	1.87	0.73
5:AE:17:VAL:O	5:AE:21:VAL:HG23	1.88	0.73
12:AM:20:VAL:HG21	12:BM:20:VAL:HG21	1.69	0.73
13:AO:92:VAL:CG1	13:AO:93:PRO:HD2	2.19	0.73
4:BD:88:SER:HB2	5:BE:69:ARG:NH2	2.02	0.73
18:AX:34:PHE:O	18:AX:38:ILE:HG12	1.88	0.73
2:BB:135:LEU:HA	2:BB:138:MET:HE3	1.70	0.73
2:BB:483:ASP:CG	2:BB:484:PRO:HD2	2.08	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:348:ASN:HB3	2:BB:354:LEU:HD21	1.71	0.73
13:BO:35:ASP:C	13:BO:36:ILE:HD12	2.09	0.73
22:BD:404:CLA:H43	18:BX:23:LEU:HA	1.71	0.73
1:AA:41:LEU:O	1:AA:45:THR:HG22	1.88	0.72
3:AC:254:THR:CG2	3:AC:255:THR:H	2.00	0.72
3:AC:305:THR:CG2	3:AC:308:GLU:H	2.02	0.72
16:BV:63:CYS:SG	34:BV:201:HEM:CAB	2.74	0.72
3:AC:415:ASN:O	3:AC:416:SER:HB3	1.89	0.72
20:BZ:32:ASP:HB2	20:BZ:35:ARG:HG2	1.71	0.72
20:BZ:32:ASP:CG	20:BZ:33:TRP:H	1.92	0.72
3:AC:405:ASN:HD22	27:AC:518:DGD:HD5	1.54	0.72
3:BC:240:ILE:O	3:BC:244:CYS:HB2	1.89	0.72
1:AA:129:ARG:NH2	4:AD:256:ILE:HD12	2.01	0.72
20:AZ:32:ASP:CG	20:AZ:33:TRP:H	1.90	0.72
3:BC:391:ARG:NH1	3:BC:391:ARG:HB2	2.04	0.72
3:AC:361:PHE:HA	27:AC:516:DGD:HE61	1.72	0.72
1:BA:41:LEU:O	1:BA:45:THR:HG22	1.89	0.72
2:BB:483:ASP:CB	2:BB:484:PRO:HD2	2.19	0.72
3:BC:305:THR:CG2	3:BC:308:GLU:H	2.02	0.72
13:AO:69:LEU:HD12	13:AO:70:CYS:N	2.05	0.72
13:AO:86:ARG:NH1	13:AO:87:GLN:HA	2.05	0.72
13:BO:86:ARG:NH1	13:BO:87:GLN:HA	2.05	0.72
2:AB:27:THR:HG22	2:AB:107:LEU:HD13	1.72	0.71
3:AC:29:GLU:HB3	10:AK:46:ARG:NH1	2.04	0.71
3:AC:391:ARG:HB2	3:AC:391:ARG:HH11	1.55	0.71
2:AB:68:ARG:NH1	2:AB:262:THR:HG23	2.04	0.71
2:AB:188:ASP:HA	7:AH:58:VAL:HG23	1.72	0.71
5:AE:56:TYR:O	16:AV:27:ALA:HB2	1.90	0.71
12:AM:33:GLN:HB3	12:BM:33:GLN:CB	2.19	0.71
22:AD:404:CLA:H43	18:AX:23:LEU:HA	1.71	0.71
3:BC:405:ASN:HD22	27:BC:518:DGD:HD5	1.55	0.71
13:BO:92:VAL:CG1	13:BO:93:PRO:HD2	2.20	0.71
2:AB:124:ARG:HG3	2:AB:124:ARG:HH11	1.55	0.71
14:AT:29:ILE:H	14:AT:29:ILE:CD1	1.95	0.71
1:BA:129:ARG:NH2	4:BD:256:ILE:HA	2.06	0.71
2:BB:68:ARG:NH1	2:BB:262:THR:HG23	2.06	0.70
3:BC:29:GLU:HB3	10:BK:46:ARG:NH1	2.06	0.70
2:AB:150:CYS:HB2	22:AB:603:CLA:HMC3	1.72	0.70
3:AC:348:GLU:OE2	13:AO:37:VAL:HA	1.91	0.70
4:BD:148:ALA:HB2	4:BD:276:VAL:HG13	1.71	0.70
3:AC:187:ASP:HB2	3:AC:230:LEU:HD12	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:38:PHE:HB2	26:AH:101:BCR:H10C	1.74	0.70
15:AU:38:GLU:HG2	15:AU:39:LEU:N	2.05	0.70
13:BO:77:LEU:HD23	13:BO:93:PRO:HA	1.72	0.70
1:AA:129:ARG:NH2	4:AD:256:ILE:HA	2.06	0.70
16:AV:63:CYS:SG	34:AV:201:HEM:CAB	2.74	0.70
1:BA:93:PHE:CD2	1:BA:95:PRO:HD3	2.26	0.70
2:BB:27:THR:HG22	2:BB:107:LEU:HD13	1.72	0.70
13:AO:77:LEU:HD23	13:AO:93:PRO:HA	1.74	0.70
3:BC:158:THR:O	3:BC:251:HIS:HB3	1.92	0.70
4:BD:39:PRO:O	4:BD:43:LEU:HD22	1.91	0.70
4:BD:192:THR:HG23	22:BD:402:CLA:HBC2	1.74	0.70
5:BE:26:THR:HB	34:BE:101:HEM:HBB2	1.74	0.70
13:AO:35:ASP:C	13:AO:36:ILE:HD12	2.12	0.70
13:AO:87:GLN:O	13:AO:88:GLU:HB3	1.91	0.70
16:AV:115:ALA:CB	16:AV:122:ARG:HD2	2.22	0.70
18:BX:12:ILE:HG23	18:BX:12:ILE:O	1.89	0.70
1:AA:93:PHE:CD2	1:AA:95:PRO:HD3	2.26	0.69
30:AB:623:LMG:H111	1:BA:72:LEU:HD13	1.74	0.69
2:BB:137:LYS:HD2	7:BH:14:LEU:O	1.92	0.69
4:AD:55:VAL:HG21	4:AD:110:LEU:HD12	1.74	0.69
1:BA:332:HIS:CD2	1:BA:333:GLU:HG3	2.27	0.69
3:BC:85:GLY:N	27:BC:517:DGD:HE4	2.06	0.69
6:BF:17:THR:HG23	6:BF:20:TRP:H	1.57	0.69
4:AD:122:LEU:HD11	23:AD:403:PHO:H92	1.74	0.69
4:AD:152:VAL:HG21	4:AD:279:LEU:HD12	1.72	0.69
13:AO:33:TYR:O	13:AO:37:VAL:HG23	1.92	0.69
5:BE:56:TYR:O	16:BV:27:ALA:HB2	1.92	0.69
7:BH:38:PHE:HB2	26:BX:101:BCR:H10C	1.73	0.69
3:AC:85:GLY:N	27:AC:517:DGD:HE4	2.07	0.69
3:AC:158:THR:O	3:AC:251:HIS:HB3	1.92	0.69
5:AE:26:THR:HB	34:AE:101:HEM:HBB2	1.74	0.69
5:AE:81:GLU:O	5:AE:83:LEU:N	2.24	0.69
4:BD:152:VAL:HG21	4:BD:279:LEU:HD12	1.74	0.69
16:BV:115:ALA:CB	16:BV:122:ARG:HD2	2.23	0.69
18:BX:34:PHE:O	18:BX:38:ILE:HG12	1.91	0.69
4:AD:39:PRO:O	4:AD:43:LEU:HD22	1.93	0.69
12:AM:33:GLN:CB	12:BM:33:GLN:HB3	2.19	0.69
2:BB:135:LEU:HD23	2:BB:138:MET:HE3	1.74	0.69
3:BC:254:THR:CG2	3:BC:255:THR:H	2.04	0.69
3:BC:348:GLU:OE2	13:BO:37:VAL:HA	1.93	0.69
4:AD:87:HIS:HD2	4:AD:162:LEU:HD23	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:129:GLN:HE22	4:AD:143:ALA:HA	1.55	0.69
2:BB:264:PRO:HG2	2:BB:267:LEU:HD12	1.74	0.69
13:BO:33:TYR:O	13:BO:37:VAL:HG23	1.92	0.69
4:AD:261:PHE:HB2	24:AD:405:PL9:H522	1.74	0.68
13:BO:178:ARG:CG	13:BO:178:ARG:NH1	2.53	0.68
15:BU:38:GLU:HG2	15:BU:39:LEU:N	2.08	0.68
15:BU:54:LYS:HB2	15:BU:113:THR:HG23	1.75	0.68
5:AE:15:THR:HG23	9:AJ:8:ILE:O	1.92	0.68
7:AH:6:TRP:CE2	7:AH:10:ILE:HD11	2.27	0.68
20:AZ:30:PRO:HG3	20:AZ:33:TRP:HZ3	1.58	0.68
1:BA:129:ARG:NH2	4:BD:256:ILE:HD12	2.02	0.68
1:AA:40:THR:HG21	1:AA:121:LEU:HD23	1.73	0.68
2:AB:4:PRO:HD2	2:AB:7:ARG:HD2	1.74	0.68
4:AD:192:THR:HG23	22:AD:402:CLA:HBC2	1.74	0.68
20:AZ:32:ASP:HB3	20:AZ:35:ARG:NH1	2.08	0.68
2:BB:284:ILE:HG12	2:BB:309:LEU:CD1	2.23	0.68
2:AB:135:LEU:HA	2:AB:138:MET:HE3	1.74	0.68
10:AK:19:ASP:N	10:AK:20:PRO:HD2	2.09	0.68
13:AO:206:GLU:H	13:AO:206:GLU:CD	1.97	0.68
3:BC:166:ILE:O	3:BC:170:ILE:HG13	1.93	0.68
1:AA:238:LYS:HD2	14:AT:32:LYS:HB3	1.76	0.68
1:AA:332:HIS:CD2	1:AA:333:GLU:HG3	2.27	0.68
2:BB:135:LEU:HB2	2:BB:136:PRO:HD3	1.75	0.68
22:AA:404:CLA:HAB	22:AD:402:CLA:H72	1.76	0.68
20:AZ:28:ALA:O	20:AZ:30:PRO:HD3	1.93	0.68
2:BB:4:PRO:HD2	2:BB:7:ARG:HD2	1.74	0.68
2:BB:103:LEU:HD21	22:BB:608:CLA:HMC3	1.75	0.68
2:BB:315:ILE:HG22	2:BB:426:PHE:HB3	1.76	0.68
4:BD:122:LEU:HD11	23:BD:403:PHO:H92	1.76	0.68
12:BM:31:SER:HB3	30:BM:102:LMG:HC71	1.76	0.68
2:AB:284:ILE:HG12	2:AB:309:LEU:CD1	2.23	0.68
4:AD:279:LEU:HG	23:AD:403:PHO:HBC3	1.76	0.68
22:BA:405:CLA:HAB	22:BD:402:CLA:H72	1.76	0.68
2:BB:135:LEU:HD23	2:BB:138:MET:CE	2.24	0.68
3:BC:415:ASN:O	3:BC:416:SER:HB3	1.94	0.68
3:BC:305:THR:HG22	3:BC:308:GLU:CB	2.24	0.67
4:BD:250:ASN:HD22	4:BD:262:SER:HB3	1.58	0.67
5:AE:81:GLU:C	5:AE:83:LEU:H	1.96	0.67
5:BE:81:GLU:C	5:BE:83:LEU:H	1.97	0.67
4:AD:180:ARG:HH11	4:AD:180:ARG:CG	2.08	0.67
2:BB:331:ASN:HB3	2:BB:437:LEU:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:180:ARG:CG	4:BD:180:ARG:HH11	2.07	0.67
20:BZ:33:TRP:O	20:BZ:37:LYS:HB2	1.93	0.67
2:AB:264:PRO:HG2	2:AB:267:LEU:HD12	1.75	0.67
2:AB:483:ASP:OD2	2:AB:484:PRO:HD2	1.94	0.67
3:AC:42:LEU:HD21	22:AC:511:CLA:H2A	1.74	0.67
20:AZ:33:TRP:CD1	20:AZ:33:TRP:O	2.48	0.67
3:BC:361:PHE:HA	27:BC:516:DGD:HE61	1.77	0.67
2:AB:135:LEU:HD23	2:AB:138:MET:CE	2.25	0.67
6:BF:11:VAL:HG12	6:BF:12:SER:N	2.09	0.67
7:BH:6:TRP:CE2	7:BH:10:ILE:HD11	2.29	0.67
10:BK:19:ASP:N	10:BK:20:PRO:HD2	2.10	0.67
2:AB:270:PRO:HG3	2:AB:312:TYR:HD2	1.59	0.67
24:BA:408:PL9:H33	4:BD:38:PHE:CD1	2.29	0.67
5:BE:27:ILE:HB	5:BE:28:PRO:HD3	1.77	0.67
13:BO:206:GLU:CD	13:BO:206:GLU:H	1.97	0.67
1:AA:183:MET:HA	22:AA:402:CLA:HMD2	1.76	0.67
3:AC:166:ILE:O	3:AC:170:ILE:HG13	1.94	0.67
3:AC:472:LEU:HD12	3:AC:473:ASP:H	1.59	0.67
3:BC:215:LYS:HB3	3:BC:223:TRP:HA	1.77	0.67
3:BC:391:ARG:HB2	3:BC:391:ARG:HH11	1.59	0.67
6:AF:11:VAL:HG12	6:AF:12:SER:H	1.59	0.67
12:AM:31:SER:HB3	30:AM:101:LMG:HC71	1.77	0.67
3:BC:75:PHE:HD1	3:BC:86:LEU:HD21	1.60	0.67
2:AB:133:LEU:HB3	2:AB:138:MET:CE	2.24	0.67
2:AB:271:THR:CG2	2:AB:273:TYR:H	2.08	0.67
22:AB:602:CLA:H42	7:AH:45:ILE:HD11	1.76	0.67
3:AC:215:LYS:HB3	3:AC:223:TRP:HA	1.77	0.67
3:AC:377:LEU:O	3:AC:381:LYS:HB2	1.95	0.67
1:BA:174:LEU:HD22	23:BA:406:PHO:H151	1.75	0.67
2:BB:356:VAL:HG22	2:BB:370:LEU:HD21	1.77	0.67
3:BC:155:ASN:HD21	3:BC:255:THR:CB	2.07	0.67
4:BD:186:GLN:HB2	22:BD:402:CLA:HBC1	1.77	0.67
5:AE:78:THR:O	5:AE:81:GLU:HB2	1.94	0.67
1:BA:32:TRP:HA	1:BA:32:TRP:CE3	2.30	0.67
1:AA:161:TYR:HB3	1:AA:162:PRO:HD3	1.77	0.66
3:AC:75:PHE:HD1	3:AC:86:LEU:HD21	1.59	0.66
2:BB:483:ASP:OD2	2:BB:484:PRO:HD2	1.95	0.66
3:BC:161:LEU:HG	3:BC:165:LEU:HD12	1.77	0.66
3:BC:377:LEU:O	3:BC:381:LYS:HB2	1.94	0.66
3:BC:449:ARG:HE	22:BC:505:CLA:CED	2.07	0.66
5:BE:81:GLU:O	5:BE:83:LEU:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BO:92:VAL:HG12	13:BO:93:PRO:HD2	1.78	0.66
2:BB:284:ILE:HG23	2:BB:305:ILE:HD12	1.76	0.66
6:BF:11:VAL:HG12	6:BF:12:SER:H	1.59	0.66
3:AC:150:ASP:HB3	3:AC:153:ASP:HB2	1.77	0.66
22:AC:507:CLA:H112	26:AC:515:BCR:H362	1.78	0.66
12:AM:23:ILE:HD13	30:AM:101:LMG:H182	1.78	0.66
3:BC:42:LEU:HD21	22:BC:511:CLA:H2A	1.77	0.66
2:AB:141:ILE:CG2	22:AB:615:CLA:HBB1	2.26	0.66
22:AC:505:CLA:HBD	22:AC:505:CLA:HBA1	1.77	0.66
6:AF:11:VAL:HG12	6:AF:12:SER:N	2.09	0.66
15:AU:83:ALA:CB	15:AU:84:PRO:HD2	2.14	0.66
1:BA:183:MET:HA	22:BA:403:CLA:HMD2	1.76	0.66
1:BA:238:LYS:HD2	14:BT:32:LYS:HB3	1.76	0.66
5:BE:15:THR:HG23	9:BJ:8:ILE:O	1.95	0.66
5:BE:18:ARG:O	5:BE:22:ILE:HG13	1.95	0.66
5:BE:84:LYS:HB2	5:BE:84:LYS:HZ2	1.61	0.66
3:AC:305:THR:HG22	3:AC:308:GLU:CB	2.26	0.66
1:BA:40:THR:HG21	1:BA:121:LEU:HD23	1.77	0.66
3:BC:30:SER:HB2	10:BK:46:ARG:O	1.95	0.66
3:BC:114:VAL:HG22	30:BC:520:LMG:H152	1.77	0.66
11:BL:7:ARG:HD2	11:BL:7:ARG:O	1.96	0.66
1:BA:343:LEU:O	1:BA:344:ALA:HB2	1.96	0.66
3:BC:89:ILE:N	3:BC:90:PRO:HD2	2.11	0.66
3:AC:277:GLY:C	22:AC:505:CLA:HBC2	2.15	0.66
20:BZ:30:PRO:HG3	20:BZ:33:TRP:HZ3	1.60	0.66
2:BB:133:LEU:HB3	2:BB:138:MET:CE	2.26	0.66
3:BC:277:GLY:C	22:BC:505:CLA:HBC2	2.16	0.66
4:BD:279:LEU:HG	23:BD:403:PHO:HBC3	1.76	0.66
2:AB:356:VAL:HG22	2:AB:370:LEU:CD2	2.26	0.66
1:BA:77:ILE:HD11	14:BT:6:TYR:HB3	1.78	0.66
13:BO:120:THR:HG22	13:BO:154:SER:OG	1.96	0.66
2:BB:490:GLN:OE1	2:BB:490:GLN:O	2.15	0.65
22:BC:505:CLA:HBA1	22:BC:505:CLA:HBD	1.78	0.65
1:AA:81:ALA:HB2	1:AA:175:GLY:HA3	1.78	0.65
24:AA:407:PL9:H33	4:AD:38:PHE:CD1	2.31	0.65
2:AB:224:ARG:HG2	7:AH:24:GLY:O	1.96	0.65
4:AD:250:ASN:HD22	4:AD:262:SER:HB3	1.62	0.65
20:AZ:33:TRP:O	20:AZ:37:LYS:HB2	1.95	0.65
2:BB:327:THR:HG22	22:BB:610:CLA:H12	1.78	0.65
5:BE:78:THR:O	5:BE:81:GLU:HB2	1.96	0.65
3:AC:89:ILE:N	3:AC:90:PRO:HD2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:161:LEU:HG	3:AC:165:LEU:HD12	1.78	0.65
1:AA:32:TRP:HA	1:AA:32:TRP:CE3	2.31	0.65
2:AB:331:ASN:HB3	2:AB:437:LEU:HD12	1.79	0.65
3:AC:55:ALA:HB1	26:AC:514:BCR:H373	1.78	0.65
13:AO:144:LEU:HD13	13:AO:259:VAL:HG11	1.78	0.65
2:BB:247:PHE:HE1	22:BB:605:CLA:H101	1.61	0.65
20:BZ:33:TRP:O	20:BZ:33:TRP:CD1	2.50	0.65
2:BB:86:ILE:HD12	2:BB:86:ILE:O	1.96	0.65
2:BB:270:PRO:HG3	2:BB:312:TYR:HD2	1.61	0.65
2:BB:386:ALA:HB3	15:BU:132:LEU:HD11	1.79	0.65
3:AC:30:SER:HB2	10:AK:46:ARG:O	1.95	0.65
3:AC:155:ASN:HD21	3:AC:255:THR:CB	2.07	0.65
13:AO:92:VAL:HG12	13:AO:93:PRO:HD2	1.78	0.65
2:BB:356:VAL:HG22	2:BB:370:LEU:CD2	2.27	0.65
4:BD:103:ARG:HG3	5:BE:73:LYS:HG3	1.78	0.65
20:BZ:49:ALA:O	20:BZ:53:VAL:HG23	1.96	0.65
2:AB:222:PRO:HG3	7:AH:27:THR:H	1.61	0.65
9:AJ:14:ALA:CB	26:AK:102:BCR:H393	2.27	0.65
22:BC:507:CLA:H112	26:BC:515:BCR:H362	1.78	0.65
4:BD:261:PHE:HB2	24:BD:405:PL9:H522	1.78	0.65
13:BO:87:GLN:O	13:BO:88:GLU:HB3	1.96	0.65
2:AB:271:THR:HB	2:AB:274:GLN:HG3	1.78	0.65
22:BC:512:CLA:H143	22:BC:513:CLA:H162	1.79	0.65
20:BZ:28:ALA:O	20:BZ:30:PRO:HD3	1.97	0.65
2:AB:248:ALA:HA	22:AB:603:CLA:H42	1.79	0.65
2:AB:490:GLN:OE1	2:AB:490:GLN:O	2.15	0.65
11:AL:7:ARG:O	11:AL:7:ARG:HD2	1.97	0.65
13:AO:120:THR:HG22	13:AO:154:SER:OG	1.96	0.65
3:BC:187:ASP:HB2	3:BC:230:LEU:HD12	1.78	0.65
2:AB:247:PHE:HE1	22:AB:602:CLA:H101	1.62	0.64
2:AB:86:ILE:O	2:AB:86:ILE:HD12	1.97	0.64
3:AC:186:TYR:HE2	3:AC:188:THR:HG22	1.62	0.64
3:BC:55:ALA:HB1	26:BC:514:BCR:H373	1.77	0.64
22:BC:511:CLA:H151	20:BZ:20:VAL:HG13	1.78	0.64
27:BC:518:DGD:HD2	9:BJ:32:ALA:O	1.97	0.64
14:BT:29:ILE:HD12	14:BT:29:ILE:N	2.10	0.64
2:AB:139:PHE:CZ	2:AB:143:LEU:HD22	2.32	0.64
4:AD:88:SER:HB2	5:AE:69:ARG:NH2	2.11	0.64
2:BB:271:THR:CG2	2:BB:273:TYR:H	2.08	0.64
22:BB:611:CLA:HMA1	4:BD:130:PHE:CE1	2.32	0.64
4:BD:87:HIS:HD2	4:BD:162:LEU:HD23	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:449:ARG:HE	22:AC:505:CLA:CED	2.08	0.64
15:BU:94:ILE:O	15:BU:97:LEU:HG	1.98	0.64
13:AO:86:ARG:HD2	13:AO:86:ARG:C	2.18	0.64
3:BC:156:LYS:O	3:BC:160:ILE:HG13	1.97	0.64
3:BC:472:LEU:HD12	3:BC:473:ASP:H	1.62	0.64
2:AB:103:LEU:HD21	22:AB:605:CLA:HMC3	1.78	0.64
2:AB:135:LEU:HB2	2:AB:136:PRO:HD3	1.79	0.64
2:AB:327:THR:HG22	22:AB:607:CLA:H12	1.78	0.64
2:BB:271:THR:HB	2:BB:274:GLN:HG3	1.80	0.64
1:AA:174:LEU:HD22	23:AA:405:PHO:H151	1.78	0.64
22:AC:511:CLA:H151	20:AZ:20:VAL:HG13	1.78	0.64
4:BD:129:GLN:HE22	4:BD:143:ALA:HA	1.61	0.64
5:BE:26:THR:O	5:BE:29:ALA:HB3	1.97	0.64
15:BU:58:ASN:ND2	15:BU:114:VAL:HG13	2.13	0.64
22:BC:511:CLA:H171	20:BZ:20:VAL:HA	1.80	0.64
15:AU:66:ILE:O	15:AU:66:ILE:HG22	1.98	0.64
22:BC:505:CLA:CMD	22:BC:507:CLA:HAB	2.28	0.64
15:BU:66:ILE:O	15:BU:66:ILE:HG22	1.97	0.64
1:AA:57:PRO:HG3	1:AA:68:SER:CB	2.28	0.64
2:AB:286:ARG:HG2	2:AB:286:ARG:HH11	1.62	0.64
2:AB:379:ALA:HA	2:AB:390:TYR:HB3	1.80	0.64
7:AH:35:MET:HE2	26:AH:101:BCR:HC21	1.80	0.64
13:AO:36:ILE:HG23	13:AO:41:LEU:HB3	1.80	0.64
13:AO:117:GLY:O	13:AO:159:VAL:HG12	1.98	0.64
2:AB:284:ILE:HG23	2:AB:305:ILE:HD12	1.80	0.63
16:AV:143:GLY:O	16:AV:147:VAL:HG23	1.97	0.63
2:BB:379:ALA:HA	2:BB:390:TYR:HB3	1.79	0.63
3:BC:204:LEU:HD21	3:BC:238:ILE:HG21	1.79	0.63
12:BM:23:ILE:HD13	30:BM:102:LMG:H182	1.79	0.63
3:AC:209:ILE:HG23	26:AC:515:BCR:H382	1.81	0.63
3:AC:310:SER:OG	3:AC:355:THR:HG23	1.98	0.63
3:BC:141:GLU:H	3:BC:141:GLU:CD	2.02	0.63
13:BO:144:LEU:HD13	13:BO:259:VAL:HG11	1.80	0.63
2:AB:386:ALA:HB3	15:AU:132:LEU:HD11	1.80	0.63
2:BB:141:ILE:CG2	22:BB:618:CLA:HBB1	2.27	0.63
5:AE:36:LEU:O	5:AE:40:THR:HG23	1.98	0.63
2:BB:139:PHE:CZ	2:BB:143:LEU:HD22	2.32	0.63
2:AB:486:LEU:O	2:AB:486:LEU:HD13	1.98	0.63
22:AB:602:CLA:H61	7:AH:46:LEU:HD13	1.80	0.63
4:AD:186:GLN:HB2	22:AD:402:CLA:HBC1	1.80	0.63
3:BC:150:ASP:HB3	3:BC:153:ASP:HB2	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:223:TRP:CD2	3:BC:224:ILE:HG13	2.34	0.63
29:AA:412:SQD:H311	22:AC:508:CLA:H71	1.81	0.63
27:AC:518:DGD:HD2	9:AJ:32:ALA:O	1.99	0.63
9:BJ:14:ALA:CB	26:BK:102:BCR:H393	2.28	0.63
2:AB:297:THR:OG1	2:AB:300:GLU:HG3	1.98	0.63
3:AC:107:ASP:OD2	3:AC:110:PRO:HD3	1.99	0.63
22:AC:511:CLA:H171	20:AZ:20:VAL:HA	1.79	0.63
1:BA:81:ALA:HB2	1:BA:175:GLY:HA3	1.80	0.63
10:BK:18:PHE:HD2	10:BK:18:PHE:N	1.96	0.63
13:BO:36:ILE:HG23	13:BO:41:LEU:HB3	1.79	0.63
1:AA:190:HIS:HB3	1:AA:293:MET:HE2	1.81	0.63
10:AK:18:PHE:N	10:AK:18:PHE:HD2	1.97	0.63
5:BE:36:LEU:O	5:BE:40:THR:HG23	1.99	0.63
5:BE:79:PHE:O	5:BE:84:LYS:HB3	1.99	0.63
13:BO:86:ARG:C	13:BO:86:ARG:HD2	2.19	0.63
13:AO:230:VAL:CG1	13:AO:231:ASP:H	2.10	0.62
22:AB:605:CLA:HMB3	22:AB:606:CLA:H11	1.81	0.62
5:AE:27:ILE:HB	5:AE:28:PRO:HD3	1.80	0.62
7:BH:19:GLY:O	7:BH:21:VAL:HG13	1.98	0.62
3:AC:337:LEU:HD12	13:AO:131:PRO:HG3	1.81	0.62
5:AE:26:THR:O	5:AE:29:ALA:HB3	1.98	0.62
7:AH:19:GLY:O	7:AH:21:VAL:HG13	1.99	0.62
1:BA:57:PRO:HG3	1:BA:68:SER:CB	2.29	0.62
1:AA:29:TYR:CG	1:AA:133:LEU:HD13	2.34	0.62
1:BA:89:ILE:HD11	1:BA:108:ASN:HB3	1.81	0.62
2:BB:124:ARG:NE	2:BB:131:PRO:HD3	2.14	0.62
20:BZ:32:ASP:HB3	20:BZ:35:ARG:NH1	2.13	0.62
26:BC:514:BCR:H312	20:BZ:9:LEU:HD11	1.80	0.62
26:BK:102:BCR:HC8	26:BK:102:BCR:H331	1.82	0.62
3:AC:305:THR:HG22	3:AC:308:GLU:HB2	1.82	0.62
22:AC:505:CLA:CMD	22:AC:507:CLA:HAB	2.29	0.62
2:BB:224:ARG:HG2	7:BH:24:GLY:O	1.99	0.62
1:AA:142:TRP:HB2	4:AD:220:ASN:OD1	1.99	0.62
2:AB:356:VAL:HG22	2:AB:370:LEU:HD21	1.81	0.62
4:AD:160:TYR:HB3	4:AD:161:PRO:CD	2.30	0.62
14:AT:29:ILE:HD12	14:AT:29:ILE:N	2.10	0.62
3:BC:186:TYR:HE2	3:BC:188:THR:HG22	1.65	0.62
2:AB:124:ARG:NE	2:AB:131:PRO:HD3	2.13	0.62
30:AD:408:LMG:HC62	11:AL:15:THR:HG21	1.82	0.62
5:AE:64:PRO:HB3	5:AE:84:LYS:HE2	1.82	0.62
12:AM:28:GLN:HB3	12:BM:27:VAL:HG12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AX:11:THR:HG23	18:AX:12:ILE:HG22	1.81	0.62
1:BA:29:TYR:CG	1:BA:133:LEU:HD13	2.34	0.62
22:BB:605:CLA:H42	7:BH:45:ILE:HD11	1.82	0.62
3:BC:310:SER:OG	3:BC:355:THR:HG23	2.00	0.62
6:BF:28:VAL:HB	6:BF:29:PRO:HD3	1.81	0.62
3:AC:44:ASN:C	3:AC:45:LEU:HD12	2.20	0.62
4:AD:267:LEU:HD23	4:AD:267:LEU:C	2.20	0.62
2:BB:222:PRO:HG3	7:BH:27:THR:H	1.63	0.62
4:AD:26:ARG:CD	6:AF:18:VAL:HG11	2.27	0.62
26:AC:514:BCR:H312	20:AZ:9:LEU:HD11	1.80	0.61
7:AH:58:VAL:HG13	7:AH:58:VAL:O	2.00	0.61
15:AU:58:ASN:ND2	15:AU:114:VAL:HG13	2.15	0.61
15:AU:94:ILE:O	15:AU:97:LEU:HG	2.00	0.61
5:BE:64:PRO:HB3	5:BE:84:LYS:HE2	1.82	0.61
1:AA:18:CYS:O	1:AA:22:THR:HG22	2.00	0.61
1:AA:93:PHE:HZ	22:AA:406:CLA:HAA1	1.64	0.61
16:AV:102:MET:HE3	16:AV:141:ILE:HG21	1.81	0.61
1:BA:93:PHE:HZ	22:BA:407:CLA:HAA1	1.65	0.61
1:AA:228:THR:HG22	1:AA:229:GLU:H	1.65	0.61
12:AM:27:VAL:HG12	12:BM:28:GLN:HB3	1.80	0.61
15:AU:54:LYS:HB2	15:AU:113:THR:HG23	1.82	0.61
1:BA:142:TRP:HB2	4:BD:220:ASN:OD1	2.01	0.61
3:BC:209:ILE:HG23	26:BC:515:BCR:H382	1.81	0.61
2:AB:192:PRO:HD2	7:AH:60:VAL:HG12	1.82	0.61
2:AB:371:THR:HG22	2:AB:377:VAL:HA	1.81	0.61
1:BA:161:TYR:HB3	1:BA:162:PRO:HD3	1.82	0.61
1:BA:228:THR:HG22	1:BA:229:GLU:H	1.66	0.61
1:BA:257:ARG:HG3	1:BA:257:ARG:HH11	1.65	0.61
3:AC:44:ASN:O	3:AC:45:LEU:HD12	1.99	0.61
22:AC:512:CLA:H143	22:AC:513:CLA:H162	1.82	0.61
3:BC:107:ASP:OD2	3:BC:110:PRO:HD3	1.99	0.61
1:AA:89:ILE:HD11	1:AA:108:ASN:HB3	1.81	0.61
1:AA:343:LEU:O	1:AA:344:ALA:HB2	2.00	0.61
3:AC:248:GLY:O	3:AC:252:ILE:HG12	2.00	0.61
16:BV:143:GLY:O	16:BV:147:VAL:HG23	2.00	0.61
20:BZ:55:GLY:HA2	26:BZ:101:BCR:H312	1.83	0.61
1:AA:77:ILE:HD11	14:AT:6:TYR:HB3	1.82	0.61
2:BB:371:THR:HG22	2:BB:377:VAL:HA	1.82	0.61
2:BB:471:ALA:HB2	4:BD:130:PHE:CZ	2.36	0.61
3:BC:318:LEU:HG	3:BC:328:VAL:HG11	1.83	0.61
4:BD:55:VAL:HG21	4:BD:110:LEU:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BV:81:ARG:CZ	16:BV:157:GLY:HA3	2.30	0.61
15:AU:97:LEU:O	15:AU:102:LYS:HE2	2.01	0.61
10:BK:17:ILE:N	10:BK:17:ILE:HD12	2.16	0.61
2:AB:264:PRO:CG	2:AB:267:LEU:HD12	2.31	0.61
3:AC:52:ALA:HA	22:AC:511:CLA:HMB3	1.82	0.61
4:AD:209:LEU:HD23	4:AD:209:LEU:C	2.21	0.61
4:AD:342:PRO:O	4:AD:345:VAL:HG12	2.01	0.61
6:AF:28:VAL:HB	6:AF:29:PRO:HD3	1.83	0.61
16:AV:90:PRO:O	16:AV:92:ARG:HD3	2.01	0.61
2:BB:172:TYR:O	2:BB:174:LEU:HG	2.00	0.61
3:BC:337:LEU:HD12	13:BO:131:PRO:HG3	1.83	0.61
22:AB:608:CLA:HMA1	4:AD:130:PHE:CE1	2.36	0.61
30:BD:408:LMG:HC62	11:BL:15:THR:HG21	1.82	0.61
5:BE:18:ARG:HB3	5:BE:18:ARG:NH1	2.14	0.61
5:AE:18:ARG:O	5:AE:22:ILE:HG13	2.00	0.60
2:BB:486:LEU:O	2:BB:486:LEU:HD13	2.01	0.60
1:BA:202:VAL:HG11	22:BA:405:CLA:OBD	1.99	0.60
2:BB:68:ARG:HH11	2:BB:262:THR:HG23	1.67	0.60
3:BC:112:PHE:O	3:BC:116:VAL:HG13	2.01	0.60
10:BK:18:PHE:N	10:BK:18:PHE:CD2	2.68	0.60
1:AA:60:ILE:HD12	1:AA:84:PRO:HD2	1.83	0.60
4:AD:103:ARG:HG3	5:AE:73:LYS:HG3	1.83	0.60
10:AK:17:ILE:HD12	10:AK:17:ILE:N	2.17	0.60
13:AO:39:THR:OG1	13:AO:41:LEU:HB2	2.01	0.60
13:AO:234:THR:OG1	13:AO:236:GLU:HG2	2.00	0.60
29:BA:413:SQD:H311	22:BC:508:CLA:H71	1.83	0.60
18:BX:11:THR:HG23	18:BX:12:ILE:HG22	1.82	0.60
3:AC:143:TYR:O	3:AC:144:SER:HB2	2.00	0.60
3:AC:391:ARG:HD2	3:AC:395:TYR:CE2	2.36	0.60
3:AC:461:ARG:HG3	3:AC:461:ARG:HH11	1.65	0.60
4:BD:250:ASN:ND2	4:BD:262:SER:HB3	2.17	0.60
5:BE:4:THR:HG22	5:BE:5:THR:N	2.16	0.60
2:AB:471:ALA:HB2	4:AD:130:PHE:CZ	2.36	0.60
4:AD:199:MET:HB3	24:AD:405:PL9:H28	1.84	0.60
5:AE:23:HIS:HA	5:AE:26:THR:OG1	2.00	0.60
7:BH:12:ARG:HD3	7:BH:12:ARG:C	2.22	0.60
4:AD:49:LEU:O	4:AD:53:THR:HG23	2.01	0.60
26:AK:102:BCR:HC8	26:AK:102:BCR:H331	1.83	0.60
20:AZ:32:ASP:CB	20:AZ:35:ARG:HG2	2.30	0.60
1:BA:29:TYR:CD2	1:BA:133:LEU:HD13	2.37	0.60
2:BB:222:PRO:HG3	7:BH:26:GLY:HA3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:305:THR:HG22	3:BC:308:GLU:HB2	1.83	0.60
2:AB:208:VAL:HG21	22:AB:602:CLA:HMC1	1.84	0.60
2:AB:213:GLY:O	2:AB:217:ILE:HG13	2.02	0.60
5:AE:4:THR:HG22	5:AE:5:THR:N	2.17	0.60
12:AM:20:VAL:HG22	12:BM:20:VAL:HG11	1.84	0.60
1:BA:214:MET:HA	1:BA:214:MET:HE3	1.82	0.60
2:BB:208:VAL:HG21	22:BB:605:CLA:HMC1	1.83	0.60
3:BC:143:TYR:O	3:BC:144:SER:HB2	2.01	0.60
2:AB:41:GLU:OE1	2:AB:63:LEU:HB2	2.02	0.60
2:AB:315:ILE:HG22	2:AB:426:PHE:HB3	1.82	0.60
3:AC:186:TYR:CE2	3:AC:188:THR:HG22	2.37	0.60
3:AC:318:LEU:HG	3:AC:328:VAL:HG11	1.82	0.60
13:AO:31:LEU:HD12	13:AO:31:LEU:N	2.17	0.60
1:BA:306:VAL:HG13	1:BA:314:ILE:O	2.01	0.60
3:BC:52:ALA:HA	22:BC:511:CLA:HMB3	1.84	0.60
20:AZ:33:TRP:O	20:AZ:33:TRP:HD1	1.84	0.60
4:BD:239:GLN:O	4:BD:240:ALA:HB3	2.02	0.60
13:BO:39:THR:OG1	13:BO:41:LEU:HB2	2.02	0.60
13:BO:117:GLY:O	13:BO:159:VAL:HG12	2.01	0.60
1:AA:153:SER:CB	22:AA:402:CLA:H11	2.32	0.60
1:AA:202:VAL:HG11	22:AA:404:CLA:OBD	2.02	0.60
3:AC:114:VAL:HG22	30:AC:520:LMG:H152	1.83	0.60
4:AD:56:THR:HG21	5:AE:50:PRO:HD3	1.84	0.60
16:BV:90:PRO:O	16:BV:92:ARG:HD3	2.02	0.60
1:AA:306:VAL:HG13	1:AA:314:ILE:O	2.01	0.59
3:AC:223:TRP:CD2	3:AC:224:ILE:HG13	2.37	0.59
2:BB:213:GLY:O	2:BB:217:ILE:HG13	2.02	0.59
4:BD:267:LEU:HD23	4:BD:267:LEU:C	2.21	0.59
1:AA:214:MET:HA	1:AA:214:MET:HE3	1.83	0.59
5:AE:79:PHE:O	5:AE:84:LYS:HB3	2.01	0.59
12:AM:20:VAL:HG11	12:BM:20:VAL:HG22	1.83	0.59
5:AE:18:ARG:HB3	5:AE:18:ARG:NH1	2.17	0.59
15:BU:97:LEU:O	15:BU:102:LYS:HE2	2.02	0.59
22:AC:502:CLA:H111	22:AC:503:CLA:HMB2	1.84	0.59
22:AD:404:CLA:HMD2	32:AD:411:LMT:H22	1.85	0.59
3:BC:155:ASN:O	3:BC:158:THR:HG22	2.03	0.59
3:BC:461:ARG:HH11	3:BC:461:ARG:HG3	1.68	0.59
5:BE:26:THR:HB	34:BE:101:HEM:CBB	2.32	0.59
10:AK:18:PHE:N	10:AK:18:PHE:CD2	2.69	0.59
10:AK:21:LEU:HD11	26:AK:102:BCR:HC32	1.84	0.59
10:AK:40:GLN:HA	10:AK:43:VAL:HG12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AT:102:BCR:H393	22:BB:610:CLA:HAC2	1.83	0.59
1:BA:13:LEU:H	1:BA:13:LEU:HD12	1.68	0.59
4:BD:87:HIS:CD2	4:BD:162:LEU:HD23	2.38	0.59
4:BD:209:LEU:C	4:BD:209:LEU:HD23	2.23	0.59
15:BU:113:THR:O	15:BU:114:VAL:HG23	2.02	0.59
1:AA:257:ARG:HH11	1:AA:257:ARG:HG3	1.66	0.59
2:AB:222:PRO:HG3	7:AH:26:GLY:HA3	1.83	0.59
1:BA:153:SER:CB	22:BA:403:CLA:H11	2.33	0.59
16:BV:125:ASP:HA	16:BV:131:ARG:HH21	1.68	0.59
11:AL:7:ARG:C	11:AL:8:GLN:HE21	2.06	0.59
1:BA:272:HIS:CD2	4:BD:218:VAL:HG21	2.38	0.59
22:BC:502:CLA:H111	22:BC:503:CLA:HMB2	1.84	0.59
5:BE:76:VAL:O	5:BE:80:LEU:HD22	2.03	0.59
2:AB:68:ARG:HH11	2:AB:262:THR:HG23	1.68	0.59
3:AC:124:VAL:HB	26:AZ:101:BCR:H362	1.84	0.59
3:BC:343:ARG:NH1	3:BC:347:GLY:O	2.35	0.59
15:AU:113:THR:O	15:AU:114:VAL:HG23	2.02	0.59
22:BB:605:CLA:H61	7:BH:46:LEU:HD13	1.84	0.59
15:BU:83:ALA:CB	15:BU:84:PRO:CD	2.78	0.59
5:AE:26:THR:HB	34:AE:101:HEM:CBB	2.33	0.59
5:AE:76:VAL:O	5:AE:80:LEU:HD22	2.03	0.59
2:BB:264:PRO:CG	2:BB:267:LEU:HD12	2.32	0.59
3:BC:124:VAL:HB	26:BZ:101:BCR:H362	1.84	0.59
4:BD:274:VAL:HA	24:BD:405:PL9:H253	1.85	0.59
13:BO:123:GLU:HG2	13:BO:124:GLU:N	2.17	0.59
20:BZ:32:ASP:CB	20:BZ:35:ARG:HG2	2.32	0.59
4:AD:55:VAL:HG21	4:AD:110:LEU:CD1	2.33	0.58
2:BB:192:PRO:HD2	7:BH:60:VAL:HG12	1.85	0.58
4:BD:18:LEU:HD22	18:BX:38:ILE:CD1	2.32	0.58
7:BH:35:MET:HE2	26:BX:101:BCR:HC21	1.85	0.58
20:BZ:33:TRP:O	20:BZ:33:TRP:HD1	1.86	0.58
20:BZ:36:SER:OG	20:BZ:39:LEU:HD12	2.03	0.58
22:AB:615:CLA:H143	22:AB:616:CLA:HMA3	1.85	0.58
3:BC:248:GLY:O	3:BC:252:ILE:HG12	2.02	0.58
3:BC:318:LEU:HD23	3:BC:318:LEU:C	2.23	0.58
11:BL:7:ARG:C	11:BL:8:GLN:HE21	2.04	0.58
1:AA:13:LEU:H	1:AA:13:LEU:HD12	1.69	0.58
3:AC:204:LEU:HD21	3:AC:238:ILE:HG21	1.84	0.58
3:AC:305:THR:HG23	3:AC:307:PRO:CD	2.32	0.58
3:AC:318:LEU:HD23	3:AC:318:LEU:C	2.24	0.58
13:AO:123:GLU:HG2	13:AO:124:GLU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BK:40:GLN:HA	10:BK:43:VAL:HG12	1.85	0.58
2:AB:212:ALA:HB2	22:AB:609:CLA:HMC3	1.85	0.58
3:AC:112:PHE:O	3:AC:116:VAL:HG13	2.03	0.58
3:AC:141:GLU:CD	3:AC:141:GLU:H	2.05	0.58
16:BV:135:GLU:O	16:BV:139:VAL:HG23	2.03	0.58
2:AB:188:ASP:OD1	7:AH:58:VAL:HA	2.03	0.58
22:AB:607:CLA:HAC2	26:AB:618:BCR:H393	1.84	0.58
6:AF:19:ARG:O	6:AF:23:VAL:HG23	2.03	0.58
15:AU:38:GLU:HG2	15:AU:39:LEU:H	1.68	0.58
1:BA:82:VAL:HB	1:BA:174:LEU:HB2	1.85	0.58
1:BA:143:ILE:HD11	4:BD:217:THR:HA	1.86	0.58
1:BA:249:VAL:HG11	2:BB:486:LEU:HD23	1.86	0.58
2:BB:112:CYS:HB3	26:BB:622:BCR:H393	1.85	0.58
32:BB:626:LMT:H102	7:BH:35:MET:SD	2.43	0.58
3:BC:165:LEU:HD21	22:BC:506:CLA:HHC	1.85	0.58
4:BD:342:PRO:O	4:BD:345:VAL:HG12	2.04	0.58
10:BK:18:PHE:CE1	20:BZ:9:LEU:HG	2.39	0.58
3:AC:156:LYS:O	3:AC:160:ILE:HG13	2.03	0.58
3:AC:369:LEU:HD21	3:AC:384:ILE:HD13	1.85	0.58
3:AC:380:ILE:HA	3:AC:384:ILE:HD11	1.85	0.58
1:BA:49:VAL:O	1:BA:53:ILE:HG13	2.04	0.58
4:BD:18:LEU:O	4:BD:22:LEU:HG	2.02	0.58
22:BD:404:CLA:HMD2	32:BD:411:LMT:H22	1.84	0.58
7:BH:58:VAL:HG13	7:BH:58:VAL:O	2.02	0.58
7:AH:12:ARG:HD3	7:AH:12:ARG:C	2.24	0.58
4:BD:160:TYR:HB3	4:BD:161:PRO:CD	2.33	0.58
2:AB:329:PRO:HD3	22:AB:607:CLA:HED2	1.86	0.58
3:AC:131:TYR:HE1	3:AC:135:ARG:HD2	1.68	0.58
4:AD:18:LEU:HD22	18:AX:38:ILE:CD1	2.34	0.58
4:AD:239:GLN:O	4:AD:240:ALA:HB3	2.03	0.58
1:BA:60:ILE:HD12	1:BA:84:PRO:HD2	1.86	0.58
2:BB:188:ASP:OD1	7:BH:58:VAL:HA	2.04	0.58
22:BC:505:CLA:H92	22:BC:505:CLA:HAB	1.85	0.58
4:AD:87:HIS:CD2	4:AD:162:LEU:HD23	2.37	0.58
16:AV:74:THR:O	16:AV:75:ASN:HB2	2.04	0.58
20:AZ:16:SER:O	20:AZ:20:VAL:HG23	2.04	0.58
3:BC:44:ASN:O	3:BC:45:LEU:HD12	2.04	0.58
15:BU:57:LEU:HD22	15:BU:79:ILE:HG21	1.86	0.58
1:AA:238:LYS:O	1:AA:241:GLN:HG3	2.03	0.57
2:AB:6:TYR:HA	22:AB:611:CLA:H11	1.85	0.57
3:AC:447:ARG:HG2	3:AC:447:ARG:NH1	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:84:LYS:HB2	5:AE:84:LYS:HZ2	1.68	0.57
1:BA:190:HIS:HB3	1:BA:293:MET:HE2	1.86	0.57
2:BB:133:LEU:HB3	2:BB:138:MET:HE2	1.86	0.57
10:BK:31:LEU:O	10:BK:34:ALA:HB3	2.04	0.57
20:BZ:5:PHE:HA	20:BZ:57:LEU:CD2	2.34	0.57
2:AB:149:LEU:HG	22:AB:603:CLA:CBC	2.29	0.57
2:AB:172:TYR:O	2:AB:174:LEU:HG	2.02	0.57
4:AD:188:PHE:HE2	4:AD:329:MET:CE	2.17	0.57
16:AV:81:ARG:CZ	16:AV:157:GLY:HA3	2.34	0.57
13:BO:180:ALA:HB1	13:BO:191:ALA:HB2	1.86	0.57
4:AD:36:LEU:O	4:AD:39:PRO:HD2	2.05	0.57
11:AL:11:GLU:HG2	11:AL:12:LEU:N	2.19	0.57
20:AZ:14:ILE:O	20:AZ:18:VAL:HG23	2.04	0.57
1:BA:140:ARG:HH22	28:BA:412:LHG:P	2.27	0.57
3:AC:130:VAL:O	3:AC:134:ILE:HG12	2.04	0.57
10:AK:17:ILE:HD12	10:AK:17:ILE:H	1.69	0.57
18:AX:45:LYS:HD3	18:AX:45:LYS:N	2.20	0.57
22:BB:618:CLA:H143	22:BB:619:CLA:HMA3	1.85	0.57
6:BF:19:ARG:O	6:BF:23:VAL:HG23	2.04	0.57
20:BZ:16:SER:O	20:BZ:20:VAL:HG23	2.04	0.57
1:AA:38:ILE:O	1:AA:42:LEU:HG	2.05	0.57
4:AD:18:LEU:O	4:AD:22:LEU:HG	2.05	0.57
4:AD:252:PHE:O	4:AD:256:ILE:HG22	2.05	0.57
10:AK:31:LEU:O	10:AK:34:ALA:HB3	2.04	0.57
13:AO:80:GLU:O	13:AO:89:ALA:HB1	2.05	0.57
15:AU:57:LEU:HD22	15:AU:79:ILE:HG21	1.87	0.57
4:BD:36:LEU:O	4:BD:39:PRO:HD2	2.05	0.57
4:BD:188:PHE:HE2	4:BD:329:MET:CE	2.17	0.57
13:BO:118:SER:HB3	13:BO:157:PRO:HA	1.87	0.57
1:AA:11:ALA:O	1:AA:12:ASN:CB	2.53	0.57
2:AB:133:LEU:HB3	2:AB:138:MET:HE2	1.86	0.57
3:AC:37:ALA:HA	22:AC:508:CLA:O1A	2.04	0.57
22:AC:505:CLA:H92	22:AC:505:CLA:HAB	1.87	0.57
3:BC:44:ASN:C	3:BC:45:LEU:HD12	2.25	0.57
4:BD:346:LEU:O	4:BD:348:ARG:HG3	2.05	0.57
10:AK:26:PRO:O	10:AK:29:PRO:HD2	2.05	0.57
12:AM:29:THR:O	12:AM:32:GLN:HG3	2.05	0.57
2:BB:248:ALA:HA	22:BB:606:CLA:H42	1.86	0.57
2:AB:174:LEU:HD23	2:AB:308:LYS:HG2	1.87	0.57
5:AE:7:GLU:H	5:AE:7:GLU:CD	2.07	0.57
10:AK:18:PHE:CE1	20:AZ:9:LEU:HG	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:130:VAL:O	3:BC:134:ILE:HG12	2.04	0.57
10:BK:26:PRO:O	10:BK:29:PRO:HD2	2.04	0.57
20:BZ:36:SER:HA	20:BZ:39:LEU:CG	2.31	0.57
2:AB:256:MET:HA	2:AB:263:THR:HG21	1.87	0.57
3:AC:343:ARG:NH1	3:AC:347:GLY:O	2.38	0.57
3:BC:37:ALA:HA	22:BC:508:CLA:O1A	2.05	0.57
4:BD:18:LEU:HD22	18:BX:38:ILE:HD13	1.85	0.57
4:BD:56:THR:HG21	5:BE:50:PRO:HD3	1.86	0.57
5:AE:84:LYS:HB2	5:AE:84:LYS:HZ3	1.70	0.57
2:BB:41:GLU:OE1	2:BB:63:LEU:HB2	2.04	0.57
18:BX:45:LYS:HD3	18:BX:45:LYS:N	2.19	0.57
2:AB:191:ASN:ND2	7:AH:60:VAL:HA	2.20	0.56
3:AC:165:LEU:HD21	22:AC:506:CLA:HHC	1.85	0.56
4:AD:266:TRP:CD1	30:AD:408:LMG:HC3	2.40	0.56
24:AD:405:PL9:H13	30:AD:408:LMG:H132	1.87	0.56
15:AU:89:GLU:H	15:AU:89:GLU:CD	2.09	0.56
22:BB:608:CLA:HMB3	22:BB:609:CLA:H11	1.86	0.56
3:BC:186:TYR:CE2	3:BC:188:THR:HG22	2.39	0.56
3:BC:391:ARG:HD2	3:BC:395:TYR:CE2	2.40	0.56
4:BD:157:PHE:CE1	4:BD:171:PRO:HG2	2.40	0.56
4:BD:199:MET:HB3	24:BD:405:PL9:H28	1.86	0.56
13:BO:31:LEU:HD12	13:BO:31:LEU:N	2.19	0.56
13:BO:230:VAL:CG1	13:BO:231:ASP:H	2.12	0.56
15:BU:100:ARG:HH11	15:BU:103:GLN:HG2	1.70	0.56
1:AA:249:VAL:HG11	2:AB:486:LEU:HD23	1.87	0.56
1:AA:272:HIS:CD2	4:AD:218:VAL:HG21	2.40	0.56
2:AB:230:ARG:O	2:AB:233:ASN:HB3	2.05	0.56
2:BB:212:ALA:HB2	22:BB:612:CLA:HMC3	1.86	0.56
2:BB:414:PRO:HB2	2:BB:415:PRO:CD	2.33	0.56
3:BC:305:THR:HG22	3:BC:308:GLU:N	2.16	0.56
6:BF:21:VAL:O	6:BF:25:THR:HG23	2.06	0.56
20:BZ:29:SER:HB2	20:BZ:31:GLN:HG3	1.88	0.56
2:AB:61:PHE:CE1	22:AB:607:CLA:HMB3	2.41	0.56
16:AV:87:LEU:N	16:AV:87:LEU:HD12	2.20	0.56
2:BB:286:ARG:HG2	2:BB:286:ARG:NH1	2.17	0.56
2:BB:297:THR:OG1	2:BB:300:GLU:HG3	2.04	0.56
5:BE:23:HIS:HA	5:BE:26:THR:OG1	2.05	0.56
20:BZ:26:ALA:CB	20:BZ:40:ILE:HD11	2.36	0.56
1:AA:265:PHE:CD1	1:AA:271:LEU:HA	2.41	0.56
30:AA:416:LMG:H112	2:BB:43:ALA:HA	1.87	0.56
4:AD:274:VAL:HA	24:AD:405:PL9:H253	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AZ:55:GLY:HA2	26:AZ:101:BCR:H312	1.87	0.56
3:BC:305:THR:HG23	3:BC:307:PRO:CD	2.32	0.56
9:BJ:14:ALA:HB3	26:BK:102:BCR:H393	1.88	0.56
10:BK:21:LEU:HD11	26:BK:102:BCR:HC32	1.87	0.56
13:BO:80:GLU:O	13:BO:89:ALA:HB1	2.05	0.56
26:AA:409:BCR:H321	29:AA:415:SQD:H321	1.87	0.56
2:AB:133:LEU:HB3	2:AB:138:MET:HE1	1.86	0.56
1:BA:18:CYS:O	1:BA:22:THR:HG22	2.05	0.56
22:BC:501:CLA:H42	22:BC:502:CLA:HMD1	1.88	0.56
4:BD:85:MET:CE	5:BE:69:ARG:HA	2.35	0.56
12:BM:29:THR:O	12:BM:32:GLN:HG3	2.06	0.56
13:BO:154:SER:O	13:BO:168:PHE:HA	2.05	0.56
20:BZ:23:VAL:O	20:BZ:26:ALA:HB3	2.06	0.56
1:AA:244:GLU:HG3	1:AA:246:TYR:H	1.70	0.56
3:AC:374:GLY:O	3:AC:375:LEU:C	2.44	0.56
4:AD:152:VAL:HG21	4:AD:279:LEU:CD1	2.35	0.56
7:AH:58:VAL:O	7:AH:58:VAL:CG1	2.53	0.56
2:BB:12:LEU:HB2	22:BB:615:CLA:HMC2	1.88	0.56
30:BD:408:LMG:H111	11:BL:19:LEU:HD21	1.87	0.56
10:BK:24:VAL:O	10:BK:27:VAL:HG12	2.06	0.56
13:BO:178:ARG:HG3	13:BO:178:ARG:NH1	2.00	0.56
16:BV:59:PHE:HA	16:BV:63:CYS:SG	2.46	0.56
1:AA:140:ARG:HH22	28:AA:411:LHG:P	2.28	0.56
3:AC:149:TYR:HA	3:AC:156:LYS:HD3	1.88	0.56
3:BC:239:TRP:CE3	3:BC:243:ILE:HD11	2.40	0.56
4:BD:26:ARG:CD	6:BF:18:VAL:HG11	2.29	0.56
13:BO:141:ARG:HG2	13:BO:141:ARG:HH11	1.71	0.56
1:AA:84:PRO:HA	1:AA:112:TYR:CG	2.40	0.56
1:AA:240:GLY:HA3	14:AT:29:ILE:HG22	1.88	0.56
2:AB:191:ASN:HD21	7:AH:60:VAL:HA	1.70	0.56
4:AD:199:MET:HG2	24:AD:405:PL9:H322	1.86	0.56
1:BA:265:PHE:CD1	1:BA:271:LEU:HA	2.41	0.56
2:BB:434:THR:HG23	13:BO:204:LYS:HE3	1.86	0.56
3:BC:374:GLY:O	3:BC:375:LEU:C	2.44	0.56
3:BC:429:SER:HB3	27:BC:517:DGD:HA81	1.88	0.56
2:AB:12:LEU:HD22	2:AB:18:ARG:HB2	1.87	0.56
2:AB:112:CYS:HB3	26:AB:620:BCR:H393	1.88	0.56
2:AB:191:ASN:HB2	7:AH:58:VAL:CG2	2.36	0.56
13:AO:31:LEU:HD12	13:AO:31:LEU:H	1.71	0.56
18:AX:12:ILE:HG12	18:AX:16:LEU:CD1	2.31	0.56
20:AZ:29:SER:HB2	20:AZ:31:GLN:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:11:ALA:O	1:BA:12:ASN:CB	2.53	0.56
2:BB:170:ASP:HB2	2:BB:171:PRO:CD	2.36	0.56
2:BB:191:ASN:HB2	7:BH:58:VAL:CG2	2.36	0.56
22:BB:611:CLA:H42	4:BD:127:LEU:HD11	1.86	0.56
1:AA:104:GLU:OE2	13:AO:99:ARG:HD3	2.06	0.56
9:AJ:14:ALA:HB1	26:AK:102:BCR:H393	1.88	0.56
16:AV:125:ASP:HA	16:AV:131:ARG:HH21	1.70	0.56
29:BA:413:SQD:H223	27:BC:518:DGD:HAE1	1.88	0.56
10:BK:17:ILE:HD12	10:BK:17:ILE:H	1.71	0.56
16:BV:102:MET:HE3	16:BV:141:ILE:HG21	1.88	0.56
3:AC:199:ILE:N	3:AC:199:ILE:HD12	2.22	0.55
20:AZ:23:VAL:O	20:AZ:26:ALA:HB3	2.07	0.55
4:BD:60:THR:HG23	4:BD:61:HIS:HD2	1.70	0.55
16:BV:29:LEU:HD11	16:BV:34:LEU:HD21	1.87	0.55
2:AB:43:ALA:HA	30:AB:623:LMG:H112	1.87	0.55
4:AD:250:ASN:ND2	4:AD:262:SER:HB3	2.21	0.55
4:AD:267:LEU:HD23	4:AD:267:LEU:O	2.06	0.55
8:AI:11:VAL:O	8:AI:15:PHE:HD2	1.89	0.55
14:AT:7:VAL:HG12	32:AT:101:LMT:H122	1.89	0.55
20:AZ:26:ALA:CB	20:AZ:40:ILE:HD11	2.36	0.55
24:BD:405:PL9:H13	30:BD:408:LMG:H132	1.87	0.55
13:BO:83:LYS:HG2	13:BO:84:ASN:N	2.20	0.55
20:BZ:5:PHE:HA	20:BZ:57:LEU:HD21	1.88	0.55
3:AC:305:THR:HG22	3:AC:308:GLU:N	2.16	0.55
13:AO:83:LYS:HE2	2:BB:338:GLN:HA	1.87	0.55
1:BA:104:GLU:OE2	13:BO:99:ARG:HD3	2.06	0.55
4:BD:221:THR:HG23	4:BD:244:TYR:HB2	1.87	0.55
4:BD:267:LEU:HD23	4:BD:267:LEU:O	2.07	0.55
15:BU:38:GLU:HG2	15:BU:39:LEU:H	1.71	0.55
4:BD:53:THR:HG22	4:BD:67:TYR:CD2	2.41	0.55
6:BF:16:PHE:CD2	29:BF:101:SQD:H262	2.41	0.55
13:BO:86:ARG:HH11	13:BO:87:GLN:HA	1.71	0.55
2:AB:170:ASP:HB2	2:AB:171:PRO:CD	2.36	0.55
3:AC:350:ILE:HG21	3:AC:359:TRP:HB2	1.88	0.55
3:BC:350:ILE:HG21	3:BC:359:TRP:HB2	1.89	0.55
4:BD:49:LEU:O	4:BD:53:THR:HG23	2.06	0.55
1:AA:29:TYR:CD2	1:AA:133:LEU:HD13	2.41	0.55
4:AD:157:PHE:CE1	4:AD:171:PRO:HG2	2.41	0.55
30:AD:407:LMG:O3	9:AJ:37:GLY:HA3	2.07	0.55
13:AO:66:ILE:HD12	13:AO:121:PHE:CD1	2.42	0.55
1:BA:131:TRP:CE3	1:BA:132:GLU:N	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:140:ARG:NH2	1:BA:142:TRP:HZ3	2.05	0.55
1:BA:238:LYS:O	1:BA:241:GLN:HG3	2.07	0.55
1:BA:244:GLU:HG3	1:BA:246:TYR:H	1.71	0.55
2:BB:6:TYR:HA	22:BB:614:CLA:H11	1.88	0.55
3:BC:107:ASP:OD2	3:BC:109:PHE:HB3	2.06	0.55
3:BC:346:THR:O	13:BO:40:GLY:HA2	2.07	0.55
1:AA:37:MET:HG2	1:AA:41:LEU:HD12	1.89	0.55
22:AB:608:CLA:H42	4:AD:127:LEU:HD11	1.88	0.55
3:AC:95:LEU:HD13	22:AC:502:CLA:H143	1.89	0.55
5:AE:55:TYR:O	5:AE:84:LYS:HE3	2.07	0.55
2:BB:174:LEU:HD23	2:BB:308:LYS:HG2	1.87	0.55
2:BB:183:PRO:HB2	2:BB:185:TRP:CH2	2.41	0.55
18:BX:12:ILE:CG1	18:BX:16:LEU:HD12	2.36	0.55
1:AA:131:TRP:CE3	1:AA:132:GLU:N	2.75	0.55
3:AC:45:LEU:HD23	3:AC:48:LYS:HD2	1.89	0.55
1:BA:64:ARG:NH1	13:BO:98:THR:HG21	2.22	0.55
4:BD:77:ALA:HB2	4:BD:174:GLY:HA3	1.88	0.55
13:BO:66:ILE:HD12	13:BO:121:PHE:CD1	2.41	0.55
20:BZ:21:ILE:O	20:BZ:25:VAL:HG22	2.07	0.55
4:AD:189:HIS:HA	4:AD:294:ARG:HD2	1.88	0.55
20:AZ:36:SER:HA	20:AZ:39:LEU:CG	2.35	0.55
4:BD:53:THR:HG22	4:BD:67:TYR:CE2	2.42	0.55
3:AC:107:ASP:OD2	3:AC:109:PHE:HB3	2.06	0.55
4:AD:180:ARG:CG	4:AD:180:ARG:NH1	2.70	0.55
16:AV:59:PHE:HA	16:AV:63:CYS:SG	2.47	0.55
18:AX:32:LEU:N	18:AX:32:LEU:HD23	2.22	0.55
3:BC:239:TRP:HE3	3:BC:243:ILE:HD11	1.71	0.55
4:BD:88:SER:HB2	5:BE:69:ARG:CZ	2.36	0.55
4:BD:152:VAL:HG21	4:BD:279:LEU:CD1	2.36	0.55
1:AA:217:SER:HA	1:AA:220:THR:HG22	1.88	0.54
9:AJ:14:ALA:HB3	26:AK:102:BCR:H393	1.89	0.54
1:BA:38:ILE:O	1:BA:42:LEU:HG	2.06	0.54
3:BC:425:TRP:CE2	22:BC:504:CLA:HBA1	2.42	0.54
13:AO:180:ALA:HB1	13:AO:191:ALA:HB2	1.89	0.54
2:BB:154:GLY:O	2:BB:159:THR:HG23	2.07	0.54
4:BD:199:MET:HG2	24:BD:405:PL9:H322	1.89	0.54
4:BD:334:GLN:N	4:BD:335:PRO:HD3	2.22	0.54
16:BV:35:THR:HG23	16:BV:46:THR:OG1	2.07	0.54
1:AA:221:SER:HB3	4:AD:141:TYR:HB2	1.89	0.54
3:AC:29:GLU:HB3	10:AK:46:ARG:HH11	1.70	0.54
5:AE:8:ARG:NE	5:AE:13:ILE:HG12	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:95:LEU:HD13	22:BC:502:CLA:H143	1.88	0.54
3:BC:473:ASP:HB2	14:BT:26:PRO:CB	2.33	0.54
4:BD:76:VAL:O	4:BD:77:ALA:HB2	2.07	0.54
4:BD:180:ARG:HG3	4:BD:180:ARG:NH1	2.22	0.54
11:BL:11:GLU:HG2	11:BL:12:LEU:N	2.22	0.54
1:AA:64:ARG:NH1	13:AO:98:THR:HG21	2.22	0.54
3:AC:155:ASN:O	3:AC:158:THR:HG22	2.07	0.54
4:AD:86:GLY:O	4:AD:166:SER:HB2	2.08	0.54
15:AU:100:ARG:O	15:AU:103:GLN:HB3	2.07	0.54
20:AZ:21:ILE:O	20:AZ:25:VAL:HG22	2.07	0.54
20:AZ:35:ARG:O	20:AZ:38:GLN:HB3	2.07	0.54
22:BA:404:CLA:HED1	24:BD:405:PL9:H372	1.89	0.54
2:BB:224:ARG:NE	7:BH:25:TRP:NE1	2.55	0.54
15:BU:66:ILE:O	15:BU:66:ILE:CG2	2.56	0.54
2:AB:235:GLU:HG2	2:AB:235:GLU:O	2.08	0.54
3:AC:239:TRP:CE3	3:AC:243:ILE:HD11	2.42	0.54
3:AC:425:TRP:CE2	22:AC:504:CLA:HBA1	2.42	0.54
4:AD:18:LEU:HD22	18:AX:38:ILE:HD13	1.89	0.54
13:AO:141:ARG:HG2	13:AO:141:ARG:HH11	1.71	0.54
13:AO:227:VAL:HG12	13:AO:228:ALA:N	2.22	0.54
3:BC:135:ARG:HB2	20:BZ:27:TYR:HB3	1.90	0.54
3:BC:149:TYR:HA	3:BC:156:LYS:HD3	1.89	0.54
3:BC:158:THR:HG21	3:BC:254:THR:O	2.08	0.54
3:BC:369:LEU:HD21	3:BC:384:ILE:HD13	1.89	0.54
2:AB:150:CYS:HA	22:AB:603:CLA:HBC2	1.89	0.54
3:AC:135:ARG:HB2	20:AZ:27:TYR:HB3	1.89	0.54
3:AC:178:LYS:HA	3:AC:182:PHE:HB2	1.90	0.54
13:AO:86:ARG:C	13:AO:86:ARG:HH11	2.11	0.54
2:BB:12:LEU:HD22	2:BB:18:ARG:HB2	1.89	0.54
20:BZ:32:ASP:C	20:BZ:34:ASP:N	2.60	0.54
1:AA:76:ASN:OD1	1:AA:79:THR:HG23	2.07	0.54
1:AA:82:VAL:HB	1:AA:174:LEU:HB2	1.88	0.54
2:AB:487:SER:N	2:AB:488:PRO:HD2	2.23	0.54
15:AU:58:ASN:OD1	15:AU:84:PRO:HA	2.07	0.54
1:BA:217:SER:HA	1:BA:220:THR:HG22	1.90	0.54
13:BO:271:PRO:HG2	13:BO:272:ALA:H	1.73	0.54
3:AC:155:ASN:HA	3:AC:158:THR:CG2	2.38	0.54
13:AO:154:SER:O	13:AO:168:PHE:HA	2.07	0.54
2:BB:487:SER:N	2:BB:488:PRO:HD2	2.22	0.54
27:BB:602:DGD:HD3	32:BB:603:LMT:H32	1.89	0.54
3:BC:453:ALA:O	8:BI:34:ARG:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:55:TYR:O	5:BE:84:LYS:HE3	2.07	0.54
15:BU:100:ARG:O	15:BU:103:GLN:HB3	2.08	0.54
7:AH:12:ARG:N	7:AH:13:PRO:HD2	2.23	0.54
16:AV:35:THR:HG23	16:AV:46:THR:OG1	2.08	0.54
2:BB:191:ASN:HD21	7:BH:60:VAL:HA	1.72	0.54
2:BB:230:ARG:O	2:BB:233:ASN:HB3	2.08	0.54
4:BD:239:GLN:O	4:BD:240:ALA:CB	2.56	0.54
5:BE:8:ARG:NE	5:BE:13:ILE:HG12	2.23	0.54
9:BJ:15:THR:O	9:BJ:19:MET:HG3	2.08	0.54
30:AD:408:LMG:H111	11:AL:19:LEU:HD21	1.88	0.54
13:AO:190:LEU:HB2	13:AO:214:LYS:HB2	1.90	0.54
20:AZ:32:ASP:CG	20:AZ:33:TRP:N	2.60	0.54
3:BC:45:LEU:HD23	3:BC:48:LYS:HD2	1.90	0.54
3:BC:276:LEU:HD11	3:BC:444:HIS:HD2	1.73	0.54
1:AA:81:ALA:CB	1:AA:175:GLY:HA3	2.37	0.53
3:AC:30:SER:OG	4:AD:233:ARG:NH2	2.40	0.53
3:AC:276:LEU:HD11	3:AC:444:HIS:HD2	1.73	0.53
16:AV:116:GLU:O	16:AV:116:GLU:HG3	2.08	0.53
20:AZ:36:SER:OG	20:AZ:39:LEU:HD12	2.07	0.53
2:BB:191:ASN:ND2	7:BH:60:VAL:HA	2.23	0.53
3:BC:36:TRP:O	22:BC:508:CLA:H11	2.08	0.53
3:BC:118:HIS:CE1	30:BC:520:LMG:H192	2.42	0.53
3:BC:135:ARG:HE	20:BZ:33:TRP:HE1	1.56	0.53
3:BC:380:ILE:HA	3:BC:384:ILE:HD11	1.88	0.53
4:BD:238:THR:O	4:BD:239:GLN:O	2.26	0.53
10:BK:37:PHE:HB3	26:BK:102:BCR:C40	2.39	0.53
20:BZ:14:ILE:O	20:BZ:18:VAL:HG23	2.08	0.53
3:AC:453:ALA:O	8:AI:34:ARG:HB2	2.08	0.53
12:AM:25:LEU:O	12:AM:28:GLN:HG3	2.08	0.53
13:AO:92:VAL:HG13	13:AO:93:PRO:HD2	1.90	0.53
1:BA:240:GLY:HA3	14:BT:29:ILE:HG22	1.90	0.53
2:BB:329:PRO:HD3	22:BB:610:CLA:HED2	1.91	0.53
3:BC:447:ARG:HG2	3:BC:447:ARG:NH1	2.16	0.53
4:BD:266:TRP:CD1	30:BD:408:LMG:HC3	2.42	0.53
6:BF:18:VAL:HG13	6:BF:19:ARG:N	2.23	0.53
7:BH:12:ARG:N	7:BH:13:PRO:HD2	2.23	0.53
8:BI:11:VAL:O	8:BI:15:PHE:HD2	1.91	0.53
10:BK:43:VAL:O	10:BK:43:VAL:HG13	2.08	0.53
3:AC:42:LEU:CD1	22:AC:511:CLA:HMA3	2.37	0.53
4:AD:279:LEU:HD11	22:AD:402:CLA:O1A	2.09	0.53
22:BB:610:CLA:H42	30:BB:624:LMG:H131	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BD:189:HIS:HA	4:BD:294:ARG:HD2	1.90	0.53
7:BH:58:VAL:O	7:BH:58:VAL:CG1	2.56	0.53
2:AB:434:THR:HG23	13:AO:204:LYS:HE3	1.91	0.53
3:AC:118:HIS:CE1	30:AC:520:LMG:H192	2.43	0.53
13:AO:83:LYS:HG2	13:AO:84:ASN:N	2.19	0.53
2:BB:341:LYS:HD2	2:BB:429:ILE:HG22	1.90	0.53
3:BC:30:SER:OG	4:BD:233:ARG:NH2	2.41	0.53
3:BC:137:PRO:HB2	3:BC:139:THR:O	2.09	0.53
3:BC:418:ASN:HD21	27:BC:517:DGD:HD4	1.74	0.53
13:BO:178:ARG:HD2	13:BO:182:PHE:CD1	2.43	0.53
15:BU:58:ASN:OD1	15:BU:84:PRO:HA	2.07	0.53
16:BV:87:LEU:HD12	16:BV:87:LEU:N	2.22	0.53
20:BZ:3:ILE:O	20:BZ:7:LEU:HG	2.08	0.53
3:AC:36:TRP:O	22:AC:508:CLA:H11	2.08	0.53
3:AC:473:ASP:HB2	14:AT:26:PRO:CB	2.33	0.53
4:AD:180:ARG:NH1	4:AD:180:ARG:HG3	2.23	0.53
4:AD:239:GLN:O	4:AD:240:ALA:CB	2.55	0.53
1:BA:283:VAL:O	1:BA:286:THR:HG22	2.08	0.53
3:BC:178:LYS:HA	3:BC:182:PHE:HB2	1.89	0.53
1:AA:143:ILE:HD11	4:AD:217:THR:HA	1.89	0.53
3:AC:174:LEU:HG	22:AC:512:CLA:H92	1.90	0.53
1:BA:322:ASN:OD1	3:BC:412:THR:HA	2.08	0.53
22:BB:612:CLA:HMC2	26:BX:101:BCR:H343	1.91	0.53
3:BC:131:TYR:HE1	3:BC:135:ARG:HD2	1.74	0.53
5:BE:28:PRO:O	5:BE:32:ILE:HG13	2.08	0.53
13:BO:227:VAL:HG12	13:BO:228:ALA:N	2.23	0.53
14:BT:29:ILE:H	14:BT:29:ILE:CD1	1.98	0.53
27:AC:517:DGD:HB62	26:AJ:102:BCR:H352	1.91	0.53
13:AO:178:ARG:CG	13:AO:178:ARG:NH1	2.55	0.53
1:BA:76:ASN:OD1	1:BA:79:THR:HG23	2.08	0.53
1:BA:107:TYR:CD1	13:BO:141:ARG:NH1	2.77	0.53
3:BC:117:VAL:HG12	30:BC:520:LMG:H191	1.91	0.53
3:BC:337:LEU:CD1	13:BO:131:PRO:HG3	2.38	0.53
5:BE:7:GLU:CD	5:BE:7:GLU:H	2.12	0.53
13:BO:31:LEU:HB2	13:BO:36:ILE:CD1	2.37	0.53
4:AD:330:ALA:HB3	4:AD:331:PRO:HD3	1.91	0.53
15:AU:66:ILE:O	15:AU:66:ILE:CG2	2.56	0.53
2:BB:235:GLU:O	2:BB:235:GLU:HG2	2.09	0.53
3:BC:33:PHE:CE1	4:BD:229:ALA:CB	2.92	0.53
9:BJ:14:ALA:HB1	26:BK:102:BCR:H393	1.91	0.53
27:AB:626:DGD:HD3	32:AB:627:LMT:H32	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AC:501:CLA:H42	22:AC:502:CLA:HMD1	1.90	0.53
4:AD:238:THR:O	4:AD:239:GLN:O	2.27	0.53
9:AJ:15:THR:O	9:AJ:19:MET:HG3	2.08	0.53
10:AK:37:PHE:HB3	26:AK:102:BCR:C40	2.39	0.53
3:BC:117:VAL:CG1	30:BC:520:LMG:H191	2.39	0.53
4:BD:161:PRO:HG3	4:BD:170:ALA:HB2	1.91	0.53
15:BU:89:GLU:CD	15:BU:89:GLU:H	2.11	0.53
20:BZ:35:ARG:O	20:BZ:38:GLN:HB3	2.09	0.53
26:AA:409:BCR:H312	8:AI:15:PHE:CE1	2.44	0.53
22:AB:608:CLA:H12	4:AD:127:LEU:HD21	1.91	0.53
6:AF:21:VAL:O	6:AF:25:THR:HG23	2.09	0.53
13:BO:92:VAL:HG13	13:BO:93:PRO:HD2	1.92	0.53
20:BZ:30:PRO:C	20:BZ:32:ASP:H	2.12	0.53
2:AB:341:LYS:HD2	2:AB:429:ILE:HG22	1.90	0.52
3:AC:391:ARG:HH11	3:AC:391:ARG:CB	2.19	0.52
7:AH:55:LEU:O	7:AH:58:VAL:HG12	2.09	0.52
15:AU:100:ARG:HH11	15:AU:103:GLN:HG2	1.73	0.52
20:AZ:30:PRO:C	20:AZ:32:ASP:H	2.12	0.52
1:BA:43:ALA:HB1	26:BA:410:BCR:H362	1.91	0.52
1:BA:300:PHE:CZ	3:BC:404:LEU:HD23	2.45	0.52
3:BC:71:GLU:OE1	3:BC:89:ILE:HG13	2.08	0.52
3:BC:167:VAL:HG12	22:BC:512:CLA:H2	1.89	0.52
4:BD:55:VAL:HG21	4:BD:110:LEU:CD1	2.39	0.52
18:BX:12:ILE:HG12	18:BX:16:LEU:CD1	2.35	0.52
1:AA:49:VAL:O	1:AA:53:ILE:HG13	2.10	0.52
1:AA:196:PRO:HA	1:AA:199:GLN:OE1	2.09	0.52
3:AC:60:ILE:HG23	22:AC:510:CLA:HMC2	1.91	0.52
3:AC:80:PRO:HB2	3:AC:83:GLU:HG3	1.90	0.52
3:AC:466:VAL:HG13	4:AD:251:ARG:HD2	1.90	0.52
4:AD:71:CYS:HB2	4:AD:76:VAL:HG12	1.91	0.52
4:AD:221:THR:HG23	4:AD:244:TYR:HB2	1.91	0.52
4:AD:334:GLN:N	4:AD:335:PRO:HD3	2.24	0.52
1:BA:232:SER:HB3	1:BA:235:TYR:CD1	2.44	0.52
13:BO:234:THR:OG1	13:BO:236:GLU:HG2	2.09	0.52
15:BU:72:TYR:CB	15:BU:73:PRO:HD3	2.34	0.52
1:AA:22:THR:HG21	8:AI:30:ARG:HD3	1.90	0.52
3:AC:33:PHE:CE1	4:AD:229:ALA:CB	2.92	0.52
4:AD:161:PRO:HG3	4:AD:170:ALA:HB2	1.91	0.52
6:AF:18:VAL:HG13	6:AF:19:ARG:N	2.25	0.52
15:AU:66:ILE:HG13	15:AU:72:TYR:CD1	2.44	0.52
16:BV:74:THR:O	16:BV:75:ASN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:326:LEU:HD21	3:AC:412:THR:HB	1.91	0.52
3:AC:216:SER:HB3	3:AC:221:GLU:HB2	1.90	0.52
3:AC:429:SER:HB3	27:AC:517:DGD:HA81	1.91	0.52
3:AC:452:ALA:O	3:AC:454:GLY:N	2.42	0.52
13:AO:141:ARG:HG2	13:AO:141:ARG:NH1	2.24	0.52
16:AV:135:GLU:O	16:AV:139:VAL:HG23	2.08	0.52
2:BB:133:LEU:HB3	2:BB:138:MET:HE1	1.90	0.52
3:BC:269:GLU:OE1	22:BC:508:CLA:HED1	2.08	0.52
30:BD:407:LMG:O3	9:BJ:37:GLY:HA3	2.09	0.52
14:BT:7:VAL:HG12	32:BT:101:LMT:H122	1.91	0.52
15:BU:83:ALA:CB	15:BU:84:PRO:HD2	2.15	0.52
2:AB:10:THR:C	2:AB:12:LEU:H	2.12	0.52
3:AC:163:PHE:CD1	22:AC:512:CLA:HAB	2.45	0.52
4:AD:85:MET:HE2	5:AE:69:ARG:HA	1.90	0.52
26:AT:102:BCR:C40	2:BB:36:SER:HB2	2.40	0.52
1:BA:81:ALA:CB	1:BA:175:GLY:HA3	2.39	0.52
2:BB:220:ARG:HB3	2:BB:221:PRO:HD2	1.92	0.52
3:BC:116:VAL:HG21	26:BZ:101:BCR:H323	1.91	0.52
4:BD:87:HIS:CD2	4:BD:162:LEU:HA	2.45	0.52
9:BJ:18:GLY:HA3	26:BK:102:BCR:H371	1.92	0.52
30:AD:408:LMG:H392	26:AT:102:BCR:HC32	1.92	0.52
10:AK:24:VAL:O	10:AK:27:VAL:HG12	2.10	0.52
22:BC:504:CLA:H202	27:BC:518:DGD:HAF2	1.92	0.52
27:BC:517:DGD:HB62	26:BJ:102:BCR:H352	1.91	0.52
1:AA:232:SER:HB3	1:AA:235:TYR:CD1	2.45	0.52
3:AC:269:GLU:OE1	3:AC:447:ARG:HG2	2.10	0.52
3:AC:337:LEU:CD1	13:AO:131:PRO:HG3	2.39	0.52
13:AO:178:ARG:HD2	13:AO:182:PHE:CD1	2.45	0.52
13:AO:223:ILE:HG13	13:AO:243:SER:HB3	1.92	0.52
1:BA:317:TRP:CD1	4:BD:177:ALA:HB2	2.44	0.52
3:BC:29:GLU:HB3	10:BK:46:ARG:HH11	1.74	0.52
3:BC:466:VAL:HG13	4:BD:251:ARG:HD2	1.92	0.52
20:BZ:31:GLN:O	20:BZ:32:ASP:HB3	2.10	0.52
1:AA:78:ILE:O	1:AA:176:ILE:HB	2.10	0.52
22:AB:604:CLA:H101	22:AB:615:CLA:H42	1.91	0.52
4:AD:88:SER:HB2	5:AE:69:ARG:CZ	2.40	0.52
10:AK:43:VAL:HG13	10:AK:43:VAL:O	2.09	0.52
16:AV:147:VAL:O	16:AV:150:LYS:HB2	2.10	0.52
2:BB:10:THR:C	2:BB:12:LEU:H	2.11	0.52
3:BC:155:ASN:CA	3:BC:158:THR:HG22	2.39	0.52
3:BC:163:PHE:CD1	22:BC:512:CLA:HAB	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:232:SER:HB3	1:AA:235:TYR:HD1	1.75	0.52
1:AA:322:ASN:OD1	3:AC:412:THR:HA	2.09	0.52
3:AC:47:GLY:O	3:AC:50:LEU:HB3	2.10	0.52
3:AC:193:GLY:O	3:AC:194:GLY:C	2.49	0.52
3:AC:415:ASN:O	3:AC:416:SER:CB	2.57	0.52
20:AZ:32:ASP:C	20:AZ:34:ASP:N	2.60	0.52
3:BC:47:GLY:O	3:BC:50:LEU:HB3	2.10	0.52
3:BC:199:ILE:HD12	3:BC:199:ILE:N	2.25	0.52
12:BM:25:LEU:O	12:BM:28:GLN:HG3	2.10	0.52
1:AA:188:ALA:HB2	1:AA:328:MET:HB2	1.92	0.52
2:AB:224:ARG:NE	7:AH:25:TRP:NE1	2.58	0.52
4:AD:77:ALA:HB2	4:AD:174:GLY:HA3	1.91	0.52
4:AD:266:TRP:HD1	30:AD:408:LMG:HC3	1.74	0.52
18:AX:17:LYS:O	18:AX:21:ILE:HG13	2.10	0.52
20:AZ:17:PHE:CE2	20:AZ:21:ILE:HD11	2.45	0.52
3:BC:296:VAL:HG23	3:BC:297:TYR:CD2	2.45	0.52
13:BO:31:LEU:HD12	13:BO:31:LEU:H	1.75	0.52
13:BO:59:ASP:C	13:BO:61:SER:H	2.13	0.52
20:BZ:17:PHE:CE2	20:BZ:21:ILE:HD11	2.45	0.52
1:AA:227:THR:HA	1:AA:231:GLU:OE2	2.10	0.51
1:AA:279:PRO:CG	4:AD:212:ALA:HB2	2.40	0.51
22:AB:603:CLA:H193	7:AH:42:LEU:HD12	1.92	0.51
1:BA:22:THR:HG21	8:BI:30:ARG:HD3	1.91	0.51
22:BB:607:CLA:H101	22:BB:618:CLA:H42	1.91	0.51
22:BB:611:CLA:H12	4:BD:127:LEU:HD21	1.92	0.51
4:BD:252:PHE:O	4:BD:256:ILE:HG22	2.10	0.51
4:BD:350:ASN:O	4:BD:352:LEU:N	2.42	0.51
13:BO:141:ARG:HG2	13:BO:141:ARG:NH1	2.24	0.51
1:AA:43:ALA:HB1	26:AA:409:BCR:H362	1.92	0.51
3:AC:418:ASN:HD21	27:AC:517:DGD:HD4	1.74	0.51
28:AC:521:LHG:H162	26:AJ:102:BCR:H313	1.91	0.51
13:AO:178:ARG:HG3	13:AO:178:ARG:NH1	2.01	0.51
20:AZ:3:ILE:O	20:AZ:7:LEU:HG	2.09	0.51
3:BC:116:VAL:CG2	26:BZ:101:BCR:H323	2.41	0.51
4:BD:136:VAL:O	4:BD:136:VAL:HG12	2.10	0.51
1:AA:228:THR:HG22	1:AA:229:GLU:N	2.25	0.51
3:AC:239:TRP:HE3	3:AC:243:ILE:HD11	1.74	0.51
4:AD:76:VAL:O	4:AD:77:ALA:HB2	2.10	0.51
4:AD:85:MET:CE	5:AE:69:ARG:HA	2.41	0.51
1:BA:190:HIS:O	1:BA:298:ASN:HB3	2.11	0.51
2:BB:9:HIS:HB2	22:BB:614:CLA:HBA1	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:61:PHE:CE1	22:BB:610:CLA:HMB3	2.45	0.51
3:BC:391:ARG:HH11	3:BC:391:ARG:CB	2.22	0.51
10:BK:35:LEU:HA	10:BK:38:VAL:HG23	1.92	0.51
1:AA:140:ARG:NH2	1:AA:142:TRP:HZ3	2.07	0.51
2:AB:293:ALA:C	2:AB:295:GLY:H	2.14	0.51
4:AD:87:HIS:CD2	4:AD:162:LEU:HA	2.45	0.51
4:AD:221:THR:HG23	4:AD:221:THR:O	2.10	0.51
13:AO:271:PRO:HG2	13:AO:272:ALA:H	1.76	0.51
20:AZ:31:GLN:O	20:AZ:32:ASP:HB3	2.10	0.51
20:AZ:32:ASP:OD1	20:AZ:36:SER:HB2	2.11	0.51
1:BA:20:TRP:O	1:BA:21:VAL:C	2.49	0.51
10:BK:20:PRO:O	10:BK:23:ASP:HB2	2.10	0.51
20:BZ:5:PHE:CE1	20:BZ:54:VAL:HG13	2.46	0.51
20:BZ:32:ASP:CG	20:BZ:33:TRP:N	2.62	0.51
2:AB:229:LEU:O	2:AB:231:MET:N	2.43	0.51
3:AC:250:TRP:CD1	3:AC:250:TRP:C	2.84	0.51
4:AD:136:VAL:HG12	4:AD:136:VAL:O	2.10	0.51
5:AE:36:LEU:HA	5:AE:39:SER:OG	2.11	0.51
26:BA:410:BCR:H312	8:BI:15:PHE:CE1	2.45	0.51
2:BB:434:THR:CG2	13:BO:204:LYS:HE3	2.40	0.51
2:AB:12:LEU:CD2	2:AB:18:ARG:HB2	2.40	0.51
2:AB:125:ASP:OD2	2:AB:127:ARG:HB3	2.11	0.51
3:AC:62:PHE:HE2	10:AK:29:PRO:HD3	1.76	0.51
2:BB:150:CYS:HA	22:BB:606:CLA:HBC2	1.91	0.51
22:BB:613:CLA:H12	22:BB:613:CLA:H112	1.92	0.51
16:BV:95:ILE:O	16:BV:99:VAL:HG23	2.09	0.51
2:AB:27:THR:HG22	2:AB:107:LEU:CD1	2.40	0.51
2:AB:36:SER:HB2	26:AB:618:BCR:C40	2.40	0.51
3:AC:117:VAL:HG12	30:AC:520:LMG:H191	1.92	0.51
1:BA:196:PRO:HA	1:BA:199:GLN:OE1	2.10	0.51
2:BB:55:MET:CE	2:BB:80:ILE:HD12	2.41	0.51
3:BC:72:LEU:HD11	3:BC:108:THR:HB	1.93	0.51
7:BH:55:LEU:HB2	7:BH:58:VAL:HG12	1.93	0.51
13:BO:223:ILE:HG12	13:BO:224:SER:N	2.25	0.51
1:AA:92:HIS:CD2	3:AC:219:GLY:HA3	2.46	0.51
22:AB:610:CLA:H12	22:AB:610:CLA:H112	1.93	0.51
22:AC:513:CLA:HMC2	26:AZ:101:BCR:H372	1.93	0.51
4:AD:86:GLY:HA2	4:AD:166:SER:HB3	1.93	0.51
7:AH:55:LEU:HB2	7:AH:58:VAL:HG12	1.92	0.51
13:AO:240:THR:HA	13:AO:264:VAL:HA	1.91	0.51
3:BC:62:PHE:HE2	10:BK:29:PRO:HD3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:514:BCR:H391	10:BK:36:ALA:HB2	1.93	0.51
20:BZ:32:ASP:OD1	20:BZ:36:SER:HB2	2.11	0.51
32:AB:625:LMT:H102	7:AH:35:MET:SD	2.51	0.51
6:AF:16:PHE:CD2	29:AF:101:SQD:H262	2.46	0.51
13:AO:118:SER:HB3	13:AO:157:PRO:HA	1.93	0.51
18:AX:12:ILE:CG1	18:AX:16:LEU:HD12	2.33	0.51
18:AX:16:LEU:C	18:AX:16:LEU:HD13	2.31	0.51
1:BA:306:VAL:HG11	1:BA:316:THR:HG23	1.92	0.51
3:BC:155:ASN:HA	3:BC:158:THR:CG2	2.38	0.51
4:BD:86:GLY:O	4:BD:166:SER:HB2	2.11	0.51
4:BD:221:THR:HG23	4:BD:221:THR:O	2.10	0.51
1:AA:29:TYR:OH	1:AA:132:GLU:OE2	2.25	0.51
2:AB:12:LEU:HB2	22:AB:612:CLA:HMC2	1.93	0.51
4:AD:53:THR:HG22	4:AD:67:TYR:CD2	2.46	0.51
2:BB:256:MET:HA	2:BB:263:THR:HG21	1.93	0.51
3:BC:269:GLU:OE1	3:BC:447:ARG:HG2	2.11	0.51
2:AB:183:PRO:HB2	2:AB:185:TRP:CH2	2.46	0.50
3:AC:116:VAL:HG21	26:AZ:101:BCR:H323	1.92	0.50
8:AI:27:ASP:N	8:AI:28:PRO:CD	2.74	0.50
15:AU:83:ALA:CB	15:AU:84:PRO:CD	2.77	0.50
24:BA:408:PL9:H301	4:BD:42:TYR:HA	1.94	0.50
3:BC:42:LEU:CD1	22:BC:511:CLA:HMA3	2.38	0.50
3:BC:80:PRO:HB2	3:BC:83:GLU:HG3	1.91	0.50
3:BC:135:ARG:HB2	20:BZ:27:TYR:CG	2.46	0.50
3:BC:447:ARG:HH11	3:BC:447:ARG:CG	2.14	0.50
1:AA:149:ALA:HB3	1:AA:150:PRO:CD	2.41	0.50
3:AC:116:VAL:CG2	26:AZ:101:BCR:H323	2.41	0.50
3:AC:158:THR:HG21	3:AC:254:THR:O	2.10	0.50
4:AD:346:LEU:O	4:AD:348:ARG:HG3	2.10	0.50
10:AK:17:ILE:H	10:AK:17:ILE:CD1	2.24	0.50
20:AZ:5:PHE:HA	20:AZ:57:LEU:CD2	2.40	0.50
29:BA:413:SQD:H5	4:BD:232:PHE:HB3	1.93	0.50
2:BB:63:LEU:N	2:BB:64:PRO:HD2	2.27	0.50
3:BC:193:GLY:O	3:BC:194:GLY:C	2.48	0.50
22:BC:504:CLA:HED1	30:BC:519:LMG:O3	2.11	0.50
13:BO:190:LEU:HB2	13:BO:214:LYS:HB2	1.93	0.50
16:BV:147:VAL:O	16:BV:150:LYS:HB2	2.11	0.50
1:AA:283:VAL:O	1:AA:286:THR:HG22	2.11	0.50
3:AC:167:VAL:HG12	22:AC:512:CLA:H2	1.94	0.50
10:AK:25:LEU:HB2	10:AK:26:PRO:HD3	1.93	0.50
13:AO:86:ARG:HH11	13:AO:87:GLN:HA	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:223:ILE:HG12	13:AO:224:SER:N	2.27	0.50
18:AX:12:ILE:O	18:AX:12:ILE:CG2	2.58	0.50
1:BA:232:SER:HB3	1:BA:235:TYR:HD1	1.75	0.50
2:BB:149:LEU:HG	22:BB:606:CLA:CBC	2.30	0.50
4:BD:62:GLY:HA3	5:BE:63:ILE:HD13	1.94	0.50
8:BI:27:ASP:N	8:BI:28:PRO:CD	2.74	0.50
3:AC:159:THR:HG23	3:AC:252:ILE:HD13	1.93	0.50
22:AC:504:CLA:H202	27:AC:518:DGD:HAF2	1.94	0.50
4:AD:53:THR:HG22	4:AD:67:TYR:CE2	2.47	0.50
15:AU:72:TYR:O	15:AU:73:PRO:C	2.48	0.50
5:BE:8:ARG:HB2	6:BF:13:TYR:HB3	1.92	0.50
18:BX:17:LYS:O	18:BX:21:ILE:HG13	2.11	0.50
29:AA:412:SQD:H223	27:AC:518:DGD:HAE1	1.92	0.50
2:AB:134:ASP:OD2	2:AB:137:LYS:HB2	2.11	0.50
22:AB:605:CLA:HBB1	22:AB:606:CLA:H51	1.92	0.50
22:AB:607:CLA:H42	30:AB:622:LMG:H131	1.92	0.50
3:AC:81:MET:CE	3:AC:89:ILE:HG22	2.42	0.50
3:AC:418:ASN:HB2	27:AC:518:DGD:HE2	1.92	0.50
5:AE:34:GLY:HA2	6:AF:32:PHE:CE1	2.46	0.50
20:AZ:5:PHE:CE1	20:AZ:54:VAL:HG13	2.46	0.50
20:AZ:12:LEU:HB2	20:AZ:50:LEU:HD22	1.93	0.50
3:BC:413:GLU:HG3	3:BC:414:ILE:N	2.27	0.50
4:BD:134:ARG:HA	4:BD:134:ARG:HE	1.76	0.50
13:BO:223:ILE:HG13	13:BO:243:SER:HB3	1.93	0.50
18:BX:32:LEU:HD23	18:BX:32:LEU:N	2.26	0.50
1:AA:63:ILE:HB	3:AC:335:THR:HG21	1.92	0.50
22:AA:403:CLA:HED2	4:AD:198:MET:SD	2.51	0.50
2:AB:9:HIS:HB2	22:AB:611:CLA:HBA1	1.93	0.50
22:AB:609:CLA:HMC2	26:AH:101:BCR:H343	1.92	0.50
22:AB:612:CLA:H171	22:AB:613:CLA:HBB2	1.94	0.50
30:AI:101:LMG:H181	32:AI:102:LMT:H42	1.94	0.50
20:AZ:47:TRP:O	20:AZ:50:LEU:HB2	2.11	0.50
28:BA:412:LHG:HC12	22:BC:508:CLA:O1D	2.12	0.50
2:BB:12:LEU:CD2	2:BB:18:ARG:HB2	2.41	0.50
2:BB:471:ALA:HB2	4:BD:130:PHE:HZ	1.76	0.50
22:BB:611:CLA:H151	22:BB:612:CLA:H203	1.93	0.50
3:BC:154:LYS:HE2	3:BC:261:ARG:HD2	1.93	0.50
34:BE:101:HEM:HBC2	6:BF:27:ALA:CB	2.37	0.50
18:BX:43:ILE:O	18:BX:43:ILE:HG22	2.11	0.50
1:AA:20:TRP:O	1:AA:21:VAL:C	2.50	0.50
29:AA:415:SQD:H2	22:BB:619:CLA:H43	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:55:MET:CE	2:AB:80:ILE:HD12	2.42	0.50
3:AC:89:ILE:N	3:AC:90:PRO:CD	2.75	0.50
3:AC:117:VAL:CG1	30:AC:520:LMG:H191	2.41	0.50
3:AC:266:TRP:HB3	3:AC:271:TYR:OH	2.11	0.50
22:AC:505:CLA:HMD1	22:AC:507:CLA:HAB	1.92	0.50
13:AO:59:ASP:HB3	13:AO:62:GLN:HB3	1.93	0.50
2:BB:124:ARG:HG3	2:BB:124:ARG:NH1	2.22	0.50
4:BD:217:THR:O	4:BD:221:THR:HB	2.11	0.50
2:AB:286:ARG:HG2	2:AB:286:ARG:NH1	2.26	0.50
22:AB:616:CLA:H43	29:BA:401:SQD:H2	1.94	0.50
5:AE:81:GLU:C	5:AE:83:LEU:N	2.64	0.50
16:AV:95:ILE:O	16:AV:99:VAL:HG23	2.12	0.50
3:BC:275:SER:HB3	22:BC:509:CLA:HED3	1.94	0.50
22:BC:505:CLA:HMD1	22:BC:507:CLA:HAB	1.92	0.50
27:BC:517:DGD:HBV1	28:BC:521:LHG:H151	1.93	0.50
1:AA:235:TYR:C	1:AA:237:TYR:H	2.16	0.50
2:AB:141:ILE:HG23	22:AB:615:CLA:HBB1	1.92	0.50
32:AB:627:LMT:H11	30:BI:101:LMG:HC2	1.93	0.50
3:AC:265:ILE:HG12	22:AC:505:CLA:HED1	1.94	0.50
3:AC:269:GLU:OE1	22:AC:508:CLA:HED1	2.12	0.50
4:AD:54:PHE:HB3	5:AE:47:PHE:CD2	2.46	0.50
30:AI:101:LMG:HC2	32:BB:603:LMT:H11	1.93	0.50
1:BA:221:SER:HB3	4:BD:141:TYR:HB2	1.94	0.50
2:BB:96:VAL:HG22	22:BB:609:CLA:HBA1	1.94	0.50
2:BB:246:PHE:CD1	2:BB:246:PHE:C	2.85	0.50
3:BC:250:TRP:CD1	3:BC:250:TRP:C	2.85	0.50
16:BV:45:ILE:HG12	16:BV:46:THR:N	2.26	0.50
1:AA:96:ILE:HG12	1:AA:105:TRP:CE2	2.47	0.49
1:AA:107:TYR:CD1	13:AO:141:ARG:NH1	2.80	0.49
2:AB:349:LYS:HG3	2:AB:350:GLU:OE1	2.12	0.49
6:AF:11:VAL:CG1	6:AF:12:SER:H	2.25	0.49
1:BA:96:ILE:HG12	1:BA:105:TRP:CE2	2.47	0.49
1:BA:206:PHE:CE2	22:BD:402:CLA:HBA1	2.47	0.49
1:BA:330:VAL:HG12	4:BD:348:ARG:HA	1.93	0.49
5:BE:8:ARG:HB2	6:BF:13:TYR:CB	2.42	0.49
2:AB:471:ALA:HB2	4:AD:130:PHE:HZ	1.78	0.49
3:AC:72:LEU:HD11	3:AC:108:THR:HB	1.93	0.49
3:AC:137:PRO:HB2	3:AC:139:THR:O	2.12	0.49
3:AC:315:MET:O	3:AC:319:ILE:HG13	2.12	0.49
3:AC:391:ARG:HD2	3:AC:395:TYR:CZ	2.47	0.49
4:AD:350:ASN:O	4:AD:352:LEU:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:18:GLY:HA3	26:AK:102:BCR:H371	1.93	0.49
13:AO:31:LEU:HB2	13:AO:36:ILE:CD1	2.38	0.49
18:AX:42:GLN:O	18:AX:43:ILE:HG13	2.12	0.49
1:BA:84:PRO:HA	1:BA:112:TYR:CG	2.47	0.49
3:BC:418:ASN:HB2	27:BC:518:DGD:HE2	1.93	0.49
3:BC:452:ALA:O	3:BC:454:GLY:N	2.44	0.49
4:BD:85:MET:HE2	5:BE:69:ARG:HA	1.94	0.49
4:BD:180:ARG:CG	4:BD:180:ARG:NH1	2.69	0.49
18:BX:32:LEU:O	18:BX:36:VAL:HG23	2.11	0.49
1:AA:224:ILE:O	1:AA:226:GLU:OE2	2.30	0.49
2:AB:220:ARG:HB3	2:AB:221:PRO:HD2	1.93	0.49
2:AB:462:PHE:CZ	22:AB:613:CLA:HMB3	2.47	0.49
3:AC:135:ARG:HE	20:AZ:33:TRP:HE1	1.59	0.49
3:AC:275:SER:HB3	22:AC:509:CLA:HED3	1.94	0.49
3:AC:473:ASP:CB	14:AT:26:PRO:HB3	2.36	0.49
16:AV:29:LEU:HD11	16:AV:34:LEU:HD21	1.92	0.49
22:BC:504:CLA:H151	27:BC:517:DGD:HBW1	1.93	0.49
4:BD:54:PHE:HB3	5:BE:47:PHE:CD2	2.47	0.49
4:AD:210:LEU:HA	4:AD:213:ILE:HG22	1.95	0.49
6:AF:23:VAL:O	6:AF:27:ALA:CB	2.60	0.49
7:AH:35:MET:HE2	26:AH:101:BCR:H322	1.93	0.49
11:AL:12:LEU:HD22	12:AM:25:LEU:HD12	1.93	0.49
32:BB:626:LMT:H3'	29:BD:409:SQD:H62	1.95	0.49
3:BC:116:VAL:HG23	3:BC:117:VAL:N	2.28	0.49
4:BD:176:ALA:HA	4:BD:179:PHE:CD2	2.47	0.49
4:BD:279:LEU:HD11	22:BD:402:CLA:O1A	2.13	0.49
5:BE:34:GLY:HA2	6:BF:32:PHE:CE1	2.48	0.49
10:BK:25:LEU:HB2	10:BK:26:PRO:HD3	1.94	0.49
14:BT:25:GLU:O	14:BT:26:PRO:C	2.50	0.49
20:BZ:29:SER:C	20:BZ:31:GLN:H	2.16	0.49
2:AB:173:GLY:HA3	2:AB:265:ILE:HD11	1.93	0.49
22:AB:608:CLA:H151	22:AB:609:CLA:H203	1.93	0.49
3:AC:109:PHE:HB3	3:AC:110:PRO:HD3	1.94	0.49
26:AC:514:BCR:H391	10:AK:36:ALA:HB2	1.95	0.49
13:AO:59:ASP:C	13:AO:61:SER:H	2.14	0.49
2:BB:24:LEU:HB3	2:BB:111:ALA:HB2	1.94	0.49
3:BC:174:LEU:HG	22:BC:512:CLA:H92	1.93	0.49
26:BC:514:BCR:HC22	10:BK:18:PHE:HD1	1.77	0.49
5:BE:4:THR:CG2	5:BE:5:THR:N	2.76	0.49
22:AB:608:CLA:H51	22:AB:609:CLA:H101	1.94	0.49
3:AC:413:GLU:HG3	3:AC:414:ILE:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AO:43:ASN:OD1	13:AO:103:SER:HB2	2.12	0.49
18:AX:43:ILE:O	18:AX:43:ILE:HG22	2.12	0.49
1:BA:124:SER:O	1:BA:127:MET:HB3	2.12	0.49
2:BB:134:ASP:OD2	2:BB:137:LYS:HB2	2.12	0.49
4:BD:266:TRP:HD1	30:BD:408:LMG:HC3	1.76	0.49
8:BI:30:ARG:O	8:BI:31:ASN:HB3	2.13	0.49
9:BJ:34:ALA:O	9:BJ:35:GLY:O	2.31	0.49
13:BO:43:ASN:OD1	13:BO:103:SER:HB2	2.11	0.49
24:AA:407:PL9:H301	4:AD:42:TYR:HA	1.94	0.49
2:AB:137:LYS:O	2:AB:141:ILE:HG13	2.11	0.49
3:AC:126:GLY:O	3:AC:130:VAL:HG23	2.12	0.49
3:AC:154:LYS:HE2	3:AC:261:ARG:HD2	1.94	0.49
3:AC:405:ASN:HD22	27:AC:518:DGD:C5D	2.25	0.49
22:AD:404:CLA:C4	18:AX:26:GLY:HA3	2.34	0.49
1:BA:32:TRP:HA	1:BA:32:TRP:HE3	1.75	0.49
22:BB:608:CLA:HMA1	22:BB:609:CLA:HBA2	1.94	0.49
3:BC:90:PRO:O	3:BC:94:THR:HG23	2.12	0.49
3:BC:473:ASP:CB	14:BT:26:PRO:HB3	2.37	0.49
29:BL:101:SQD:H45	14:BT:23:PHE:CD1	2.47	0.49
1:AA:190:HIS:O	1:AA:298:ASN:HB3	2.13	0.49
1:AA:300:PHE:CZ	3:AC:404:LEU:HD23	2.48	0.49
3:AC:135:ARG:HB2	20:AZ:27:TYR:CG	2.48	0.49
3:AC:155:ASN:CA	3:AC:158:THR:HG22	2.39	0.49
3:AC:346:THR:O	13:AO:40:GLY:HA2	2.13	0.49
4:AD:323:GLU:HG2	13:AO:194:TYR:OH	2.12	0.49
13:AO:126:GLY:O	13:AO:128:ASP:N	2.45	0.49
15:AU:72:TYR:CB	15:AU:73:PRO:HD3	2.34	0.49
4:BD:87:HIS:ND1	27:BH:101:DGD:HD2	2.27	0.49
5:BE:9:PRO:HB3	30:BE:102:LMG:HC4	1.95	0.49
2:AB:55:MET:HE2	2:AB:80:ILE:HD12	1.94	0.49
3:AC:447:ARG:NH1	3:AC:447:ARG:CG	2.74	0.49
5:AE:9:PRO:HB3	30:AE:102:LMG:HC4	1.95	0.49
8:AI:6:ILE:O	8:AI:10:ILE:HG12	2.13	0.49
16:AV:45:ILE:HG12	16:AV:46:THR:N	2.28	0.49
1:BA:114:LEU:HD23	1:BA:114:LEU:C	2.33	0.49
2:BB:293:ALA:C	2:BB:295:GLY:H	2.15	0.49
22:BB:608:CLA:HBB1	22:BB:609:CLA:H51	1.95	0.49
5:BE:81:GLU:C	5:BE:83:LEU:N	2.65	0.49
1:AA:13:LEU:HD12	1:AA:13:LEU:N	2.28	0.49
1:AA:28:LEU:HD12	29:AA:415:SQD:H111	1.94	0.49
22:AA:403:CLA:HED1	24:AD:405:PL9:H372	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:69:LEU:HD21	22:AB:603:CLA:HED3	1.95	0.49
2:AB:270:PRO:HG3	2:AB:312:TYR:CD2	2.43	0.49
3:AC:90:PRO:O	3:AC:94:THR:HG23	2.12	0.49
3:AC:347:GLY:HA3	13:AO:43:ASN:HB2	1.95	0.49
3:AC:405:ASN:HB2	27:AC:518:DGD:HG31	1.95	0.49
9:AJ:11:TRP:CG	10:AK:42:ALA:HA	2.48	0.49
10:AK:15:TYR:HE2	20:AZ:62:VAL:HG21	1.78	0.49
3:BC:94:THR:HG22	3:BC:298:PRO:HD2	1.95	0.49
4:BD:67:TYR:CE1	4:BD:76:VAL:HG11	2.47	0.49
4:BD:86:GLY:HA2	4:BD:166:SER:HB3	1.94	0.49
5:BE:22:ILE:O	5:BE:26:THR:HG23	2.13	0.49
10:BK:18:PHE:O	10:BK:22:VAL:HG23	2.13	0.49
13:BO:92:VAL:HG12	13:BO:93:PRO:CD	2.43	0.49
2:AB:69:LEU:HD12	22:AB:605:CLA:HBA1	1.95	0.48
7:AH:30:LEU:HD11	7:AH:34:PHE:HE1	1.78	0.48
13:AO:94:THR:HB	13:AO:135:GLN:O	2.12	0.48
1:BA:228:THR:HG22	1:BA:229:GLU:N	2.27	0.48
1:BA:278:TRP:HB3	1:BA:279:PRO:CD	2.42	0.48
1:BA:283:VAL:HG21	23:BA:406:PHO:HBC3	1.95	0.48
2:BB:35:GLY:O	2:BB:38:ALA:HB3	2.12	0.48
3:BC:35:TRP:CG	3:BC:36:TRP:N	2.81	0.48
3:BC:60:ILE:HG23	22:BC:510:CLA:HMC2	1.94	0.48
3:BC:135:ARG:NE	20:BZ:33:TRP:HE1	2.11	0.48
4:BD:71:CYS:HB2	4:BD:76:VAL:HG12	1.95	0.48
22:AA:402:CLA:H202	22:AA:403:CLA:H93	1.96	0.48
2:AB:35:GLY:O	2:AB:38:ALA:HB3	2.13	0.48
26:AB:617:BCR:HC31	12:AM:10:ALA:HB2	1.94	0.48
32:AB:625:LMT:H3'	29:AD:409:SQD:H62	1.95	0.48
13:AO:159:VAL:HG13	13:AO:159:VAL:O	2.12	0.48
20:AZ:5:PHE:HA	20:AZ:57:LEU:HD21	1.95	0.48
1:BA:13:LEU:HD12	1:BA:13:LEU:N	2.27	0.48
1:BA:37:MET:HG2	1:BA:41:LEU:HD12	1.94	0.48
2:BB:55:MET:HE2	2:BB:80:ILE:HD12	1.94	0.48
2:BB:125:ASP:OD2	2:BB:127:ARG:HB3	2.13	0.48
3:BC:89:ILE:N	3:BC:90:PRO:CD	2.74	0.48
3:BC:159:THR:HG23	3:BC:252:ILE:HD13	1.94	0.48
22:BC:503:CLA:H172	22:BC:510:CLA:HBB2	1.94	0.48
4:BD:49:LEU:HD13	26:BD:406:BCR:C15	2.43	0.48
13:BO:240:THR:HA	13:BO:264:VAL:HA	1.95	0.48
18:BX:16:LEU:HD13	18:BX:16:LEU:C	2.33	0.48
2:AB:175:THR:O	2:AB:176:GLY:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:414:PRO:HB2	2:AB:415:PRO:CD	2.35	0.48
3:AC:62:PHE:CE2	10:AK:29:PRO:HD3	2.48	0.48
4:AD:134:ARG:HA	4:AD:134:ARG:HE	1.78	0.48
4:AD:201:VAL:O	4:AD:205:LEU:HB2	2.13	0.48
5:AE:28:PRO:O	5:AE:32:ILE:HG13	2.13	0.48
7:AH:35:MET:HE2	26:AH:101:BCR:C32	2.44	0.48
1:BA:45:THR:HG23	1:BA:46:ILE:N	2.28	0.48
1:BA:326:LEU:HD21	3:BC:412:THR:HB	1.94	0.48
3:BC:33:PHE:CD1	4:BD:229:ALA:HB3	2.48	0.48
3:BC:258:GLY:CA	3:BC:262:ARG:HH12	2.26	0.48
3:BC:425:TRP:CZ2	22:BC:504:CLA:HBA1	2.48	0.48
7:BH:30:LEU:HD11	7:BH:34:PHE:HE1	1.78	0.48
9:BJ:11:TRP:CG	10:BK:42:ALA:HA	2.48	0.48
13:BO:59:ASP:HB3	13:BO:62:GLN:HB3	1.95	0.48
13:BO:73:PRO:HG2	13:BO:102:THR:HB	1.95	0.48
1:AA:221:SER:HB2	4:AD:139:ARG:O	2.13	0.48
2:AB:154:GLY:O	2:AB:159:THR:HG23	2.13	0.48
2:AB:256:MET:O	2:AB:448:ARG:NH1	2.42	0.48
3:AC:413:GLU:HG3	3:AC:414:ILE:H	1.79	0.48
3:AC:425:TRP:CZ2	22:AC:504:CLA:HBA1	2.48	0.48
22:AC:504:CLA:H151	27:AC:517:DGD:HBW1	1.95	0.48
4:AD:193:LEU:HG	4:AD:193:LEU:O	2.14	0.48
5:AE:14:ILE:CG2	9:AJ:13:VAL:HG11	2.44	0.48
9:AJ:34:ALA:O	9:AJ:35:GLY:O	2.31	0.48
13:AO:77:LEU:HB3	13:AO:91:PHE:HB3	1.96	0.48
13:AO:226:ASN:HD22	13:AO:226:ASN:N	2.11	0.48
26:AA:409:BCR:H312	8:AI:15:PHE:HE1	1.79	0.48
3:AC:71:GLU:OE1	3:AC:89:ILE:HG13	2.13	0.48
22:AC:504:CLA:HED1	30:AC:519:LMG:O3	2.13	0.48
4:AD:62:GLY:HA3	5:AE:63:ILE:HD13	1.96	0.48
34:AV:201:HEM:HHA	34:AV:201:HEM:HAD2	1.61	0.48
1:BA:72:LEU:HD21	32:BT:101:LMT:H31	1.96	0.48
1:BA:243:GLU:H	1:BA:243:GLU:CD	2.12	0.48
2:BB:141:ILE:HG23	22:BB:618:CLA:HBB1	1.94	0.48
2:BB:262:THR:HG22	2:BB:263:THR:HG23	1.96	0.48
10:BK:17:ILE:H	10:BK:17:ILE:CD1	2.26	0.48
13:BO:86:ARG:C	13:BO:86:ARG:HH11	2.16	0.48
20:BZ:35:ARG:HG3	20:BZ:36:SER:N	2.28	0.48
4:AD:337:GLU:O	4:AD:338:ASN:C	2.51	0.48
10:AK:20:PRO:O	10:AK:23:ASP:HB2	2.13	0.48
13:AO:86:ARG:NH1	13:AO:86:ARG:O	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:63:ILE:HB	3:BC:335:THR:HG21	1.94	0.48
1:BA:190:HIS:HB3	1:BA:293:MET:CE	2.42	0.48
22:BB:606:CLA:H193	7:BH:42:LEU:HD12	1.95	0.48
3:BC:216:SER:HB3	3:BC:221:GLU:HB2	1.95	0.48
7:BH:55:LEU:O	7:BH:58:VAL:HG12	2.12	0.48
13:BO:159:VAL:HG13	13:BO:159:VAL:O	2.13	0.48
16:BV:148:GLU:OE1	16:BV:148:GLU:HA	2.13	0.48
20:BZ:47:TRP:O	20:BZ:50:LEU:HB2	2.13	0.48
2:AB:137:LYS:HZ1	7:AH:17:GLU:H	1.61	0.48
2:AB:224:ARG:HG3	7:AH:25:TRP:CD1	2.48	0.48
3:AC:315:MET:CE	3:AC:366:LEU:HD13	2.44	0.48
3:AC:367:GLU:HB2	3:AC:368:PRO:HD3	1.95	0.48
1:BA:214:MET:HA	1:BA:214:MET:HE2	1.96	0.48
1:BA:258:LEU:HD12	4:BD:128:ARG:CD	2.42	0.48
1:BA:343:LEU:O	1:BA:344:ALA:CB	2.60	0.48
28:BC:521:LHG:H271	28:BC:521:LHG:H101	1.95	0.48
10:BK:46:ARG:NH1	10:BK:46:ARG:HB2	2.28	0.48
15:BU:72:TYR:HB3	15:BU:73:PRO:CD	2.37	0.48
2:AB:172:TYR:O	2:AB:173:GLY:C	2.52	0.48
3:AC:48:LYS:HD2	3:AC:138:GLU:HG3	1.94	0.48
3:AC:296:VAL:HG23	3:AC:297:TYR:CD2	2.49	0.48
5:AE:77:GLU:HA	5:AE:80:LEU:HD23	1.95	0.48
13:AO:194:TYR:CE1	13:AO:198:ILE:HD13	2.49	0.48
2:BB:137:LYS:O	2:BB:141:ILE:HG13	2.14	0.48
5:BE:10:PHE:HB2	30:BE:102:LMG:O2	2.14	0.48
6:BF:23:VAL:O	6:BF:27:ALA:CB	2.61	0.48
13:BO:173:ASN:ND2	13:BO:220:LYS:HD3	2.29	0.48
15:BU:66:ILE:HG13	15:BU:72:TYR:CD1	2.49	0.48
1:AA:13:LEU:H	1:AA:13:LEU:CD1	2.27	0.48
1:AA:114:LEU:C	1:AA:114:LEU:HD23	2.34	0.48
2:AB:434:THR:CG2	13:AO:204:LYS:HE3	2.44	0.48
22:AC:503:CLA:H172	22:AC:510:CLA:HBB2	1.95	0.48
11:AL:24:ILE:N	11:AL:24:ILE:HD12	2.29	0.48
13:AO:225:LEU:C	13:AO:226:ASN:HD22	2.17	0.48
3:BC:126:GLY:O	3:BC:130:VAL:HG23	2.13	0.48
3:BC:308:GLU:HB2	3:BC:361:PHE:CE1	2.49	0.48
11:BL:22:LEU:O	11:BL:26:VAL:HG13	2.14	0.48
13:BO:36:ILE:HD12	13:BO:36:ILE:N	2.29	0.48
1:AA:111:PRO:O	1:AA:115:ILE:HG13	2.14	0.48
2:AB:329:PRO:CB	22:AB:607:CLA:HED1	2.39	0.48
4:AD:87:HIS:ND1	27:AH:102:DGD:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:126:MET:CE	4:AD:150:ILE:HG13	2.43	0.48
20:AZ:32:ASP:C	20:AZ:34:ASP:H	2.17	0.48
3:BC:81:MET:CE	3:BC:89:ILE:HG22	2.44	0.48
3:BC:265:ILE:HG12	22:BC:505:CLA:HED1	1.95	0.48
4:BD:210:LEU:HA	4:BD:213:ILE:HG22	1.96	0.48
5:BE:15:THR:O	9:BJ:8:ILE:HD12	2.14	0.48
10:BK:15:TYR:HE2	20:BZ:62:VAL:HG21	1.77	0.48
10:BK:37:PHE:HB3	26:BK:102:BCR:H402	1.95	0.48
29:BL:101:SQD:H45	14:BT:23:PHE:HD1	1.79	0.48
1:AA:215:HIS:O	1:AA:216:GLY:C	2.53	0.47
3:AC:116:VAL:HG23	3:AC:117:VAL:N	2.28	0.47
13:AO:184:ASP:OD2	13:AO:188:ARG:HB2	2.14	0.47
1:BA:13:LEU:H	1:BA:13:LEU:CD1	2.26	0.47
1:BA:279:PRO:CG	4:BD:212:ALA:HB2	2.44	0.47
3:BC:266:TRP:HB3	3:BC:271:TYR:OH	2.14	0.47
4:BD:126:MET:CE	4:BD:150:ILE:HG13	2.44	0.47
4:BD:261:PHE:O	4:BD:262:SER:HB3	2.14	0.47
30:BD:408:LMG:O10	11:BL:18:TYR:HB3	2.13	0.47
13:BO:157:PRO:O	13:BO:158:ASN:O	2.32	0.47
16:BV:81:ARG:HH11	16:BV:81:ARG:HG2	1.78	0.47
20:BZ:12:LEU:HB2	20:BZ:50:LEU:HD22	1.96	0.47
5:AE:8:ARG:HB2	6:AF:13:TYR:HB3	1.95	0.47
13:AO:36:ILE:HD12	13:AO:36:ILE:N	2.29	0.47
18:AX:32:LEU:O	18:AX:36:VAL:HG23	2.13	0.47
1:BA:188:ALA:HB2	1:BA:328:MET:HB2	1.94	0.47
2:BB:27:THR:HG22	2:BB:107:LEU:CD1	2.40	0.47
2:BB:224:ARG:HG3	7:BH:25:TRP:CD1	2.48	0.47
2:BB:349:LYS:HG3	2:BB:350:GLU:OE1	2.14	0.47
5:BE:51:ARG:O	5:BE:53:ASP:N	2.47	0.47
8:BI:6:ILE:O	8:BI:10:ILE:HG12	2.14	0.47
2:AB:246:PHE:C	2:AB:246:PHE:CD1	2.88	0.47
5:AE:22:ILE:O	5:AE:26:THR:HG23	2.14	0.47
1:BA:78:ILE:O	1:BA:176:ILE:HB	2.13	0.47
2:BB:462:PHE:CZ	22:BB:616:CLA:HMB3	2.49	0.47
3:BC:391:ARG:HD2	3:BC:395:TYR:CZ	2.49	0.47
1:AA:136:ARG:NH2	8:AI:27:ASP:OD1	2.47	0.47
28:AA:411:LHG:HC12	22:AC:508:CLA:O1D	2.13	0.47
2:AB:235:GLU:OE1	2:AB:472:ARG:NH1	2.47	0.47
2:AB:265:ILE:HG13	2:AB:266:GLU:N	2.30	0.47
3:AC:33:PHE:CD1	4:AD:229:ALA:HB3	2.49	0.47
19:AY:11:UNK:C	19:AY:13:UNK:N	2.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:124:ARG:HD3	2:BB:131:PRO:N	2.30	0.47
2:BB:256:MET:O	2:BB:448:ARG:NH1	2.45	0.47
3:BC:347:GLY:HA3	13:BO:43:ASN:HB2	1.95	0.47
4:BD:93:TRP:HA	4:BD:99:GLY:H	1.80	0.47
19:BY:11:UNK:C	19:BY:13:UNK:N	2.76	0.47
1:AA:10:SER:C	1:AA:12:ASN:H	2.16	0.47
1:AA:12:ASN:O	1:AA:16:ARG:HG3	2.15	0.47
1:AA:124:SER:O	1:AA:127:MET:HB3	2.15	0.47
2:AB:24:LEU:HB3	2:AB:111:ALA:HB2	1.96	0.47
2:AB:124:ARG:HG3	2:AB:124:ARG:NH1	2.26	0.47
5:AE:9:PRO:O	5:AE:10:PHE:C	2.53	0.47
14:AT:23:PHE:CD1	29:BB:601:SQD:H45	2.49	0.47
20:AZ:5:PHE:HE1	20:AZ:54:VAL:HG13	1.80	0.47
3:BC:55:ALA:HB1	26:BC:514:BCR:C37	2.44	0.47
3:BC:367:GLU:HB2	3:BC:368:PRO:HD3	1.97	0.47
3:BC:413:GLU:HG3	3:BC:414:ILE:H	1.80	0.47
2:AB:141:ILE:HG21	22:AB:615:CLA:HBB1	1.97	0.47
3:AC:135:ARG:NE	20:AZ:33:TRP:HE1	2.12	0.47
6:AF:23:VAL:O	6:AF:27:ALA:HB2	2.14	0.47
8:AI:30:ARG:O	8:AI:31:ASN:HB3	2.14	0.47
20:AZ:29:SER:C	20:AZ:31:GLN:H	2.17	0.47
2:BB:235:GLU:OE1	2:BB:472:ARG:NH1	2.48	0.47
3:BC:62:PHE:CE2	10:BK:29:PRO:HD3	2.49	0.47
28:BC:521:LHG:H162	26:BJ:102:BCR:H313	1.95	0.47
4:BD:263:ASN:O	4:BD:266:TRP:N	2.47	0.47
7:BH:25:TRP:O	7:BH:26:GLY:C	2.53	0.47
15:BU:100:ARG:NH1	15:BU:103:GLN:HG2	2.29	0.47
1:AA:206:PHE:CE2	22:AD:402:CLA:HBA1	2.50	0.47
2:AB:7:ARG:NH2	30:AB:621:LMG:O3	2.46	0.47
2:AB:124:ARG:HD3	2:AB:131:PRO:N	2.30	0.47
2:AB:458:PHE:HB3	22:AB:604:CLA:HBC2	1.97	0.47
3:AC:94:THR:HG22	3:AC:298:PRO:HD2	1.96	0.47
3:AC:250:TRP:HE1	22:AC:506:CLA:HED1	1.80	0.47
6:AF:41:GLN:OE1	9:AJ:31:GLY:HA3	2.15	0.47
15:AU:56:ASP:HB3	15:AU:60:THR:H	1.80	0.47
16:AV:148:GLU:OE1	16:AV:148:GLU:HA	2.15	0.47
1:BA:296:ASN:HB2	3:BC:400:PRO:O	2.14	0.47
2:BB:69:LEU:HD12	22:BB:608:CLA:HBA1	1.97	0.47
2:BB:175:THR:O	2:BB:176:GLY:O	2.33	0.47
2:BB:341:LYS:HA	2:BB:405:GLU:HB2	1.97	0.47
22:BB:615:CLA:H171	22:BB:616:CLA:HBB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:205:ASP:OD1	3:BC:207:ARG:HB3	2.15	0.47
3:BC:365:TRP:CB	3:BC:391:ARG:HG2	2.44	0.47
22:BC:513:CLA:HMC2	26:BZ:101:BCR:H372	1.96	0.47
4:BD:185:PHE:CE2	4:BD:289:LEU:HD12	2.49	0.47
5:BE:7:GLU:HB3	6:BF:19:ARG:CZ	2.45	0.47
7:BH:18:TYR:CG	7:BH:19:GLY:N	2.83	0.47
13:BO:194:TYR:CE1	13:BO:198:ILE:HD13	2.50	0.47
1:AA:190:HIS:HB3	1:AA:293:MET:CE	2.43	0.47
29:AA:412:SQD:H5	4:AD:232:PHE:HB3	1.96	0.47
22:AB:605:CLA:HMA1	22:AB:606:CLA:HBA2	1.96	0.47
4:AD:49:LEU:HD13	26:AD:406:BCR:C15	2.45	0.47
5:AE:4:THR:CG2	5:AE:5:THR:N	2.77	0.47
1:BA:107:TYR:HD1	13:BO:141:ARG:NH1	2.13	0.47
2:BB:173:GLY:HA3	2:BB:265:ILE:HD11	1.95	0.47
3:BC:109:PHE:HB3	3:BC:110:PRO:HD3	1.96	0.47
5:BE:14:ILE:CG2	9:BJ:13:VAL:HG11	2.45	0.47
13:BO:135:GLN:HG2	13:BO:141:ARG:HG3	1.96	0.47
16:BV:39:ASN:HD21	16:BV:43:LYS:HB3	1.79	0.47
16:BV:130:MET:SD	16:BV:133:LEU:HD12	2.54	0.47
22:AB:607:CLA:H193	11:AL:27:LEU:HD11	1.95	0.47
3:AC:27:ASP:OD1	3:AC:28:GLN:HG2	2.14	0.47
3:AC:33:PHE:HE1	4:AD:229:ALA:CB	2.27	0.47
3:AC:56:HIS:C	3:AC:58:GLY:N	2.68	0.47
3:AC:229:ASN:ND2	3:AC:232:ASP:OD1	2.44	0.47
3:AC:365:TRP:CB	3:AC:391:ARG:HG2	2.45	0.47
4:AD:176:ALA:HA	4:AD:179:PHE:CD2	2.49	0.47
5:AE:15:THR:O	9:AJ:8:ILE:HD12	2.15	0.47
14:AT:4:ILE:HD13	26:AT:102:BCR:C38	2.44	0.47
16:AV:98:LEU:O	16:AV:102:MET:HG3	2.15	0.47
3:BC:34:ALA:HB2	4:BD:230:SER:CB	2.44	0.47
4:BD:303:ILE:CD1	12:BM:2:GLU:HG2	2.45	0.47
30:BI:101:LMG:H181	32:BI:102:LMT:H42	1.97	0.47
1:AA:306:VAL:HG11	1:AA:316:THR:HG23	1.96	0.47
3:AC:193:GLY:O	3:AC:194:GLY:O	2.33	0.47
4:AD:93:TRP:HA	4:AD:99:GLY:H	1.80	0.47
4:AD:122:LEU:HB3	4:AD:150:ILE:CD1	2.45	0.47
4:AD:261:PHE:O	4:AD:262:SER:HB3	2.14	0.47
4:AD:274:VAL:HG13	24:AD:405:PL9:H211	1.97	0.47
1:BA:11:ALA:HB1	1:BA:15:GLU:OE1	2.15	0.47
1:BA:12:ASN:O	1:BA:16:ARG:HG3	2.14	0.47
1:BA:258:LEU:O	4:BD:128:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:317:TRP:O	1:BA:321:ILE:HG13	2.15	0.47
3:BC:405:ASN:HB2	27:BC:518:DGD:HG31	1.97	0.47
4:BD:89:LEU:HG	7:BH:50:ASN:OD1	2.15	0.47
15:BU:72:TYR:O	15:BU:73:PRO:C	2.51	0.47
1:AA:32:TRP:HA	1:AA:32:TRP:HE3	1.76	0.46
3:AC:53:HIS:HB3	22:AC:512:CLA:OBD	2.15	0.46
4:AD:14:TRP:CE3	18:AX:38:ILE:HD12	2.50	0.46
5:AE:8:ARG:HB2	6:AF:13:TYR:CB	2.45	0.46
13:AO:92:VAL:HG12	13:AO:93:PRO:CD	2.43	0.46
2:BB:458:PHE:HB3	22:BB:607:CLA:HBC2	1.97	0.46
3:BC:315:MET:HE1	3:BC:369:LEU:HD12	1.97	0.46
30:BE:102:LMG:O9	30:BE:102:LMG:HC71	2.15	0.46
13:BO:77:LEU:HB3	13:BO:91:PHE:HB3	1.97	0.46
3:AC:258:GLY:CA	3:AC:262:ARG:HH12	2.28	0.46
13:AO:135:GLN:HG2	13:AO:141:ARG:HG3	1.97	0.46
1:BA:40:THR:HG23	22:BA:407:CLA:HBB1	1.96	0.46
1:BA:60:ILE:HG23	1:BA:61:ASP:N	2.30	0.46
6:BF:11:VAL:CG1	6:BF:12:SER:N	2.77	0.46
13:BO:225:LEU:C	13:BO:226:ASN:HD22	2.18	0.46
1:AA:278:TRP:HB3	1:AA:279:PRO:CD	2.46	0.46
2:AB:216:HIS:HE1	22:AB:609:CLA:C1A	2.29	0.46
22:AB:606:CLA:H72	26:AB:620:BCR:H311	1.97	0.46
3:AC:328:VAL:HG23	3:AC:329:GLY:N	2.31	0.46
3:AC:452:ALA:C	3:AC:454:GLY:N	2.68	0.46
4:AD:60:THR:HG23	4:AD:61:HIS:HD2	1.75	0.46
13:AO:83:LYS:CG	13:AO:84:ASN:H	2.23	0.46
16:AV:68:VAL:HG13	16:AV:68:VAL:O	2.15	0.46
1:BA:92:HIS:CD2	3:BC:219:GLY:HA3	2.49	0.46
22:BB:611:CLA:H51	22:BB:612:CLA:H101	1.97	0.46
26:BB:620:BCR:HC31	12:BM:10:ALA:HB2	1.97	0.46
3:BC:258:GLY:HA3	3:BC:262:ARG:HH12	1.80	0.46
4:BD:122:LEU:HB3	4:BD:150:ILE:CD1	2.46	0.46
13:BO:72:GLN:O	13:BO:263:GLY:HA3	2.14	0.46
16:BV:98:LEU:O	16:BV:102:MET:HG3	2.16	0.46
1:AA:214:MET:O	1:AA:215:HIS:C	2.54	0.46
1:AA:334:ARG:NH1	13:AO:184:ASP:C	2.69	0.46
2:AB:462:PHE:CE1	22:AB:613:CLA:HMB3	2.50	0.46
2:AB:474:LEU:O	4:AD:134:ARG:NH1	2.48	0.46
27:AC:517:DGD:HBV1	28:AC:521:LHG:H151	1.98	0.46
4:AD:146:PHE:O	4:AD:150:ILE:HG12	2.14	0.46
20:AZ:36:SER:C	20:AZ:38:GLN:N	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:201:HIS:HD2	2:BB:202:HIS:ND1	2.13	0.46
2:BB:422:ARG:HG2	2:BB:422:ARG:HH11	1.80	0.46
27:BB:602:DGD:HD5	27:BB:602:DGD:HE1	1.66	0.46
3:BC:114:VAL:HG13	22:BC:503:CLA:HMA3	1.97	0.46
4:BD:14:TRP:CE3	18:BX:38:ILE:HD12	2.51	0.46
13:BO:94:THR:HB	13:BO:135:GLN:O	2.14	0.46
1:AA:239:PHE:O	14:AT:29:ILE:HA	2.14	0.46
1:AA:283:VAL:HG21	23:AA:405:PHO:HBC3	1.97	0.46
2:AB:341:LYS:HA	2:AB:405:GLU:HB2	1.98	0.46
7:AH:25:TRP:O	7:AH:26:GLY:C	2.53	0.46
10:AK:35:LEU:HA	10:AK:38:VAL:HG23	1.96	0.46
12:AM:24:ILE:HG12	12:BM:24:ILE:HG12	1.98	0.46
1:BA:149:ALA:HB3	1:BA:150:PRO:CD	2.45	0.46
22:BA:403:CLA:H202	22:BA:404:CLA:H93	1.98	0.46
2:BB:265:ILE:HG13	2:BB:266:GLU:N	2.30	0.46
2:BB:462:PHE:CE1	22:BB:616:CLA:HMB3	2.51	0.46
22:BD:404:CLA:C4	18:BX:26:GLY:HA3	2.36	0.46
5:BE:78:THR:HA	5:BE:81:GLU:HG2	1.98	0.46
13:BO:113:VAL:HA	13:BO:119:LEU:HD23	1.98	0.46
13:BO:120:THR:HA	13:BO:153:ALA:O	2.15	0.46
13:BO:226:ASN:HD22	13:BO:226:ASN:N	2.13	0.46
13:AO:113:VAL:HA	13:AO:119:LEU:HD23	1.97	0.46
1:BA:216:GLY:O	1:BA:220:THR:HG22	2.16	0.46
3:BC:33:PHE:HE1	4:BD:229:ALA:CB	2.28	0.46
3:BC:315:MET:O	3:BC:319:ILE:HG13	2.16	0.46
3:BC:460:ASP:O	3:BC:461:ARG:C	2.54	0.46
5:BE:64:PRO:HD3	5:BE:84:LYS:HE2	1.97	0.46
15:BU:56:ASP:HB3	15:BU:60:THR:H	1.80	0.46
1:AA:216:GLY:O	1:AA:220:THR:HG22	2.16	0.46
2:AB:10:THR:O	2:AB:13:ILE:HG13	2.16	0.46
3:AC:34:ALA:HB2	4:AD:230:SER:CB	2.46	0.46
3:AC:258:GLY:HA3	3:AC:262:ARG:HH12	1.81	0.46
5:AE:17:VAL:HG22	9:AJ:8:ILE:HD11	1.97	0.46
20:AZ:35:ARG:HG3	20:AZ:36:SER:N	2.30	0.46
1:BA:10:SER:C	1:BA:12:ASN:H	2.19	0.46
2:BB:7:ARG:NH2	30:BB:623:LMG:O3	2.49	0.46
3:BC:223:TRP:CE3	3:BC:224:ILE:HG13	2.51	0.46
4:BD:26:ARG:HD3	6:BF:18:VAL:CG1	2.34	0.46
7:BH:35:MET:HE2	26:BX:101:BCR:H322	1.96	0.46
2:AB:59:GLY:HA3	22:AB:607:CLA:HED1	1.98	0.46
2:AB:96:VAL:HG22	22:AB:606:CLA:HBA1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:229:LEU:O	2:AB:230:ARG:C	2.54	0.46
4:AD:217:THR:O	4:AD:221:THR:HB	2.15	0.46
8:AI:24:LEU:O	8:AI:26:GLY:N	2.41	0.46
12:AM:18:PRO:O	12:AM:21:PHE:HB3	2.16	0.46
20:AZ:23:VAL:HB	20:AZ:24:PRO:HD3	1.97	0.46
3:BC:318:LEU:HD23	3:BC:318:LEU:O	2.16	0.46
3:BC:328:VAL:HG23	3:BC:329:GLY:N	2.30	0.46
3:BC:405:ASN:HD22	27:BC:518:DGD:C5D	2.25	0.46
20:BZ:32:ASP:C	20:BZ:34:ASP:H	2.17	0.46
1:AA:40:THR:HG23	22:AA:406:CLA:HBB1	1.98	0.46
1:AA:330:VAL:HG11	4:AD:348:ARG:HG2	1.98	0.46
2:AB:63:LEU:N	2:AB:64:PRO:HD2	2.30	0.46
22:AC:509:CLA:HBD	22:AC:509:CLA:H121	1.97	0.46
10:AK:37:PHE:HB3	26:AK:102:BCR:H402	1.97	0.46
16:AV:54:GLU:OE1	16:AV:54:GLU:HA	2.16	0.46
1:BA:221:SER:HB2	4:BD:139:ARG:O	2.15	0.46
2:BB:12:LEU:O	2:BB:14:ASN:N	2.49	0.46
2:BB:141:ILE:O	2:BB:144:PHE:HB3	2.16	0.46
3:BC:101:PRO:O	3:BC:104:GLU:HB2	2.16	0.46
3:BC:202:PRO:HB2	3:BC:235:GLY:HA2	1.97	0.46
16:BV:54:GLU:OE1	16:BV:54:GLU:HA	2.15	0.46
2:AB:71:VAL:HG21	2:AB:96:VAL:HG21	1.98	0.46
2:AB:329:PRO:HD3	22:AB:607:CLA:CED	2.46	0.46
2:AB:444:ARG:HH11	2:AB:444:ARG:HG3	1.81	0.46
14:AT:23:PHE:HD1	29:BB:601:SQD:H45	1.81	0.46
22:BB:609:CLA:HBA2	22:BB:609:CLA:H3A	1.55	0.46
3:BC:315:MET:CE	3:BC:366:LEU:HD13	2.46	0.46
4:BD:154:VAL:O	4:BD:158:LEU:HB2	2.16	0.46
7:BH:35:MET:HE2	26:BX:101:BCR:C32	2.46	0.46
15:BU:72:TYR:CB	15:BU:73:PRO:CD	2.94	0.46
1:AA:214:MET:CE	4:AD:142:ASN:ND2	2.79	0.45
1:AA:262:TYR:O	30:AE:102:LMG:H112	2.16	0.45
22:AB:608:CLA:H92	29:AD:409:SQD:H172	1.97	0.45
13:AO:86:ARG:HD2	13:AO:87:GLN:N	2.31	0.45
1:BA:42:LEU:HD23	29:BA:401:SQD:H192	1.98	0.45
3:BC:82:TYR:HA	3:BC:422:PRO:HG2	1.98	0.45
3:BC:163:PHE:CD1	3:BC:252:ILE:HD11	2.51	0.45
3:BC:235:GLY:O	3:BC:238:ILE:HB	2.15	0.45
3:BC:435:PHE:O	3:BC:438:LEU:N	2.47	0.45
4:BD:274:VAL:HG13	24:BD:405:PL9:H211	1.97	0.45
7:BH:21:VAL:HG23	7:BH:22:ALA:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BI:24:LEU:O	8:BI:26:GLY:N	2.41	0.45
18:BX:44:ASP:O	18:BX:45:LYS:HB3	2.16	0.45
2:AB:450:TRP:NE1	22:AB:607:CLA:HBA1	2.32	0.45
3:AC:114:VAL:HG13	22:AC:503:CLA:HMA3	1.97	0.45
3:AC:318:LEU:HD23	3:AC:318:LEU:O	2.16	0.45
7:AH:21:VAL:HG23	7:AH:22:ALA:O	2.16	0.45
1:BA:334:ARG:NH1	13:BO:184:ASP:C	2.69	0.45
2:BB:444:ARG:HH11	2:BB:444:ARG:HG3	1.82	0.45
2:BB:484:PRO:O	2:BB:485:GLU:HG2	2.16	0.45
22:BB:609:CLA:H72	26:BB:622:BCR:H311	1.98	0.45
22:BC:509:CLA:HBD	22:BC:509:CLA:H121	1.97	0.45
4:BD:213:ILE:HG23	4:BD:214:HIS:N	2.32	0.45
4:BD:221:THR:CG2	4:BD:244:TYR:HB2	2.45	0.45
1:AA:10:SER:C	1:AA:12:ASN:N	2.69	0.45
3:AC:49:LEU:O	3:AC:53:HIS:ND1	2.43	0.45
3:AC:210:PHE:HZ	3:AC:243:ILE:HD11	1.81	0.45
11:AL:31:PHE:HB3	11:AL:35:PHE:CE1	2.51	0.45
15:AU:99:GLU:HA	15:AU:102:LYS:HE3	1.99	0.45
1:BA:214:MET:CE	4:BD:142:ASN:ND2	2.79	0.45
22:BA:403:CLA:HBB1	22:BD:402:CLA:NC	2.32	0.45
2:BB:289:GLN:OE1	2:BB:292:LEU:HD12	2.17	0.45
34:BE:101:HEM:CBC	6:BF:27:ALA:HB1	2.39	0.45
13:BO:56:TYR:O	13:BO:161:SER:HA	2.17	0.45
13:BO:116:ASP:OD1	13:BO:157:PRO:HB3	2.16	0.45
14:BT:22:PHE:C	14:BT:23:PHE:HD2	2.20	0.45
20:BZ:36:SER:C	20:BZ:38:GLN:N	2.70	0.45
1:AA:45:THR:HG23	1:AA:46:ILE:N	2.31	0.45
1:AA:258:LEU:HD12	4:AD:128:ARG:CD	2.42	0.45
2:AB:241:SER:HB3	22:AB:612:CLA:HED3	1.97	0.45
30:AD:408:LMG:O10	11:AL:18:TYR:HB3	2.16	0.45
26:AJ:102:BCR:H361	26:AJ:102:BCR:H20C	1.83	0.45
12:AM:3:VAL:HG11	14:AT:2:GLU:HG2	1.99	0.45
1:BA:10:SER:OG	1:BA:13:LEU:HD12	2.16	0.45
26:BA:410:BCR:H312	8:BI:15:PHE:HE1	1.82	0.45
2:BB:172:TYR:O	2:BB:173:GLY:C	2.52	0.45
2:BB:270:PRO:HG3	2:BB:312:TYR:CD2	2.45	0.45
3:BC:53:HIS:HB3	22:BC:512:CLA:OBD	2.16	0.45
3:BC:406:SER:HA	3:BC:420:VAL:CG2	2.46	0.45
5:BE:77:GLU:HA	5:BE:80:LEU:HD23	1.97	0.45
1:AA:317:TRP:CD1	4:AD:177:ALA:HB2	2.52	0.45
1:AA:330:VAL:HG12	4:AD:348:ARG:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:185:PHE:CE2	4:AD:289:LEU:HD12	2.52	0.45
4:AD:213:ILE:HG23	4:AD:214:HIS:N	2.30	0.45
5:AE:7:GLU:HB3	6:AF:19:ARG:CZ	2.47	0.45
5:AE:10:PHE:HB2	30:AE:102:LMG:O2	2.16	0.45
13:AO:144:LEU:CD1	13:AO:259:VAL:HG11	2.45	0.45
15:AU:100:ARG:NH1	15:AU:103:GLN:HG2	2.31	0.45
1:BA:159:LEU:C	1:BA:162:PRO:HD2	2.37	0.45
2:BB:141:ILE:HG21	22:BB:618:CLA:HBB1	1.97	0.45
4:BD:302:GLU:OE1	4:BD:302:GLU:HA	2.17	0.45
4:BD:303:ILE:HD13	12:BM:2:GLU:HG2	1.99	0.45
5:BE:61:ARG:HH22	16:BV:153:GLY:HA3	1.82	0.45
10:BK:21:LEU:HD11	26:BK:102:BCR:C3	2.46	0.45
11:BL:31:PHE:HB3	11:BL:35:PHE:CE1	2.51	0.45
13:BO:70:CYS:O	13:BO:265:PHE:HB2	2.15	0.45
13:BO:86:ARG:O	13:BO:86:ARG:HG3	2.16	0.45
13:BO:184:ASP:OD2	13:BO:188:ARG:HB2	2.16	0.45
16:BV:116:GLU:HG3	16:BV:116:GLU:O	2.16	0.45
1:AA:11:ALA:HB1	1:AA:15:GLU:OE1	2.17	0.45
1:AA:202:VAL:O	1:AA:206:PHE:HB2	2.17	0.45
1:AA:212:CYS:HB2	4:AD:211:CYS:HB2	1.99	0.45
3:AC:284:PHE:HB3	27:AC:516:DGD:HA51	1.99	0.45
3:AC:308:GLU:HB2	3:AC:361:PHE:CE1	2.51	0.45
13:AO:56:TYR:O	13:AO:161:SER:HA	2.17	0.45
13:AO:132:VAL:O	13:AO:144:LEU:HD23	2.17	0.45
15:AU:80:VAL:HG22	15:AU:127:ARG:NH2	2.31	0.45
1:BA:227:THR:HA	1:BA:231:GLU:OE2	2.17	0.45
2:BB:59:GLY:HA3	22:BB:610:CLA:HED1	1.98	0.45
11:BL:24:ILE:HD12	11:BL:24:ILE:N	2.31	0.45
13:BO:120:THR:HG22	13:BO:154:SER:CB	2.47	0.45
13:BO:126:GLY:O	13:BO:128:ASP:N	2.50	0.45
15:BU:58:ASN:HD22	15:BU:114:VAL:HG13	1.82	0.45
1:AA:258:LEU:O	4:AD:128:ARG:NH1	2.49	0.45
1:AA:317:TRP:HZ3	4:AD:180:ARG:CD	2.19	0.45
2:AB:306:PRO:HG2	2:AB:309:LEU:HB2	1.98	0.45
4:AD:19:ASP:O	4:AD:20:ASP:C	2.55	0.45
7:AH:9:ASP:O	7:AH:12:ARG:HB3	2.17	0.45
10:AK:18:PHE:O	10:AK:22:VAL:HG23	2.16	0.45
1:BA:182:PHE:O	1:BA:186:PHE:HB2	2.17	0.45
30:BA:414:LMG:H421	22:BB:614:CLA:H142	1.99	0.45
2:BB:216:HIS:HE1	22:BB:612:CLA:C1A	2.30	0.45
2:BB:229:LEU:O	2:BB:231:MET:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:284:ILE:HG23	2:BB:305:ILE:CD1	2.44	0.45
2:BB:474:LEU:O	4:BD:134:ARG:NH1	2.49	0.45
3:BC:176:VAL:HG11	3:BC:238:ILE:HG12	1.99	0.45
3:BC:457:LYS:HE3	4:BD:228:GLY:O	2.17	0.45
5:BE:17:VAL:HG22	9:BJ:8:ILE:HD11	1.98	0.45
5:BE:72:ALA:O	5:BE:76:VAL:HG23	2.16	0.45
1:AA:72:LEU:HD21	32:AT:101:LMT:H31	1.99	0.45
3:AC:176:VAL:HG11	3:AC:238:ILE:HG12	1.99	0.45
4:AD:36:LEU:C	4:AD:39:PRO:HD2	2.37	0.45
4:AD:67:TYR:CE1	4:AD:76:VAL:HG11	2.51	0.45
4:AD:90:LEU:HD23	4:AD:90:LEU:HA	1.79	0.45
12:AM:28:GLN:CB	12:BM:27:VAL:HG12	2.47	0.45
22:BA:404:CLA:HED2	4:BD:198:MET:SD	2.57	0.45
2:BB:10:THR:C	2:BB:12:LEU:N	2.70	0.45
2:BB:306:PRO:HG2	2:BB:309:LEU:HB2	1.99	0.45
3:BC:49:LEU:O	3:BC:53:HIS:ND1	2.43	0.45
3:BC:143:TYR:O	3:BC:144:SER:CB	2.65	0.45
3:BC:193:GLY:O	3:BC:194:GLY:O	2.34	0.45
4:BD:337:GLU:O	4:BD:338:ASN:C	2.55	0.45
6:BF:23:VAL:O	6:BF:27:ALA:HB2	2.17	0.45
14:BT:22:PHE:C	14:BT:23:PHE:CD2	2.89	0.45
20:BZ:5:PHE:HE1	20:BZ:54:VAL:HG13	1.80	0.45
20:BZ:36:SER:HA	20:BZ:39:LEU:CD1	2.46	0.45
2:AB:474:LEU:HD11	22:AB:608:CLA:HAA1	1.98	0.45
22:AB:607:CLA:HBA2	22:AB:607:CLA:H3A	1.68	0.45
3:AC:245:ILE:O	3:AC:249:ILE:HG12	2.16	0.45
3:AC:457:LYS:HE3	4:AD:228:GLY:O	2.17	0.45
4:AD:303:ILE:HD13	12:AM:2:GLU:HG2	1.97	0.45
5:AE:51:ARG:O	5:AE:53:ASP:N	2.49	0.45
15:AU:72:TYR:HB3	15:AU:73:PRO:CD	2.34	0.45
15:AU:80:VAL:HG22	15:AU:127:ARG:HH21	1.82	0.45
1:BA:222:SER:O	1:BA:246:TYR:HB2	2.16	0.45
1:BA:235:TYR:C	1:BA:237:TYR:H	2.20	0.45
2:BB:10:THR:O	2:BB:13:ILE:HG13	2.17	0.45
3:BC:284:PHE:HB3	27:BC:516:DGD:HA51	1.99	0.45
30:BC:519:LMG:H172	10:BK:27:VAL:HG11	1.99	0.45
4:BD:146:PHE:O	4:BD:150:ILE:HG12	2.17	0.45
4:BD:239:GLN:HB3	4:BD:240:ALA:H	1.34	0.45
7:BH:63:LYS:O	7:BH:64:ALA:HB3	2.17	0.45
2:AB:141:ILE:O	2:AB:144:PHE:HB3	2.17	0.45
2:AB:169:SER:O	7:AH:65:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:225:VAL:HG13	3:AC:289:PHE:HA	1.99	0.45
3:AC:435:PHE:O	3:AC:438:LEU:N	2.49	0.45
13:AO:120:THR:HG22	13:AO:154:SER:CB	2.47	0.45
16:AV:119:PRO:HG3	16:AV:127:PHE:CD1	2.52	0.45
2:BB:237:VAL:HG22	22:BB:613:CLA:HBC2	2.00	0.45
2:BB:329:PRO:HD3	22:BB:610:CLA:CED	2.46	0.45
3:BC:27:ASP:OD1	3:BC:28:GLN:HG2	2.17	0.45
4:BD:253:TRP:HB2	4:BD:260:ALA:HB2	1.99	0.45
5:BE:63:ILE:HG23	5:BE:64:PRO:HD2	1.99	0.45
5:BE:69:ARG:HG3	5:BE:70:PHE:N	2.32	0.45
12:BM:33:GLN:HG2	12:BM:34:LYS:N	2.30	0.45
1:AA:183:MET:HG2	22:AA:403:CLA:HBC1	1.98	0.44
3:AC:35:TRP:CG	3:AC:36:TRP:N	2.84	0.44
3:AC:110:PRO:O	3:AC:114:VAL:HG23	2.17	0.44
5:AE:64:PRO:HD3	5:AE:84:LYS:HE2	1.98	0.44
16:AV:63:CYS:O	16:AV:64:ALA:C	2.55	0.44
1:BA:238:LYS:HD3	1:BA:238:LYS:HA	1.86	0.44
1:BA:262:TYR:O	30:BE:102:LMG:H112	2.17	0.44
27:BB:602:DGD:HA21	32:BB:603:LMT:H121	1.98	0.44
3:BC:425:TRP:HE1	27:BC:517:DGD:HE62	1.82	0.44
3:BC:452:ALA:C	3:BC:454:GLY:N	2.68	0.44
5:BE:9:PRO:O	5:BE:10:PHE:C	2.55	0.44
26:BJ:102:BCR:H20C	26:BJ:102:BCR:H361	1.81	0.44
15:BU:82:ASN:ND2	15:BU:94:ILE:HG23	2.32	0.44
2:AB:191:ASN:HB2	7:AH:58:VAL:HG22	1.98	0.44
3:AC:452:ALA:O	3:AC:453:ALA:C	2.56	0.44
22:AC:505:CLA:H42	26:AC:515:BCR:H342	1.99	0.44
5:AE:63:ILE:HG23	5:AE:64:PRO:HD2	1.99	0.44
8:AI:4:LEU:O	8:AI:8:VAL:HG23	2.17	0.44
13:AO:173:ASN:ND2	13:AO:220:LYS:HD3	2.32	0.44
16:AV:39:ASN:HD21	16:AV:43:LYS:HB3	1.82	0.44
1:BA:210:LEU:HG	23:BD:403:PHO:NC	2.33	0.44
2:BB:191:ASN:HB2	7:BH:58:VAL:HG22	1.98	0.44
3:BC:56:HIS:C	3:BC:58:GLY:N	2.70	0.44
3:BC:243:ILE:O	22:BC:506:CLA:HMC1	2.17	0.44
4:BD:201:VAL:O	4:BD:205:LEU:HB2	2.17	0.44
5:BE:51:ARG:O	5:BE:54:SER:N	2.50	0.44
6:BF:11:VAL:CG1	6:BF:12:SER:H	2.25	0.44
13:BO:109:GLY:HA3	13:BO:122:VAL:O	2.16	0.44
1:AA:243:GLU:H	1:AA:243:GLU:CD	2.16	0.44
1:AA:328:MET:HE1	4:AD:183:LEU:HD22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AA:402:CLA:HBB1	22:AD:402:CLA:NC	2.32	0.44
2:AB:283:GLU:HA	2:AB:283:GLU:OE1	2.17	0.44
3:AC:170:ILE:HD13	22:AC:513:CLA:H201	1.98	0.44
3:AC:276:LEU:CD1	3:AC:444:HIS:HD2	2.30	0.44
3:AC:425:TRP:HE1	27:AC:517:DGD:HE62	1.81	0.44
30:AC:519:LMG:H172	10:AK:27:VAL:HG11	1.99	0.44
13:AO:72:GLN:O	13:AO:263:GLY:HA3	2.17	0.44
13:AO:86:ARG:O	13:AO:86:ARG:HG3	2.18	0.44
13:AO:218:LEU:HD22	15:AU:119:THR:CG2	2.45	0.44
18:AX:16:LEU:HD11	18:AX:20:PHE:CE2	2.53	0.44
18:AX:44:ASP:O	18:AX:45:LYS:HB3	2.17	0.44
2:BB:435:GLU:O	2:BB:436:THR:C	2.56	0.44
2:BB:450:TRP:NE1	22:BB:610:CLA:HBA1	2.33	0.44
22:BB:617:CLA:H51	26:BB:620:BCR:H372	2.00	0.44
3:BC:50:LEU:O	3:BC:54:VAL:HG23	2.18	0.44
3:BC:210:PHE:HZ	3:BC:243:ILE:HD11	1.82	0.44
26:BC:514:BCR:H11C	26:BK:102:BCR:H322	1.99	0.44
13:BO:132:VAL:O	13:BO:144:LEU:HD23	2.17	0.44
13:BO:171:GLU:HA	13:BO:221:GLY:O	2.17	0.44
2:AB:15:ASP:O	2:AB:17:GLY:N	2.50	0.44
22:AB:614:CLA:H51	26:AB:617:BCR:H372	1.99	0.44
3:AC:33:PHE:CE1	4:AD:229:ALA:HB3	2.53	0.44
1:BA:224:ILE:O	1:BA:226:GLU:OE2	2.36	0.44
22:BC:508:CLA:H172	27:BC:517:DGD:HBW2	2.00	0.44
4:BD:330:ALA:HB3	4:BD:331:PRO:HD3	1.99	0.44
7:BH:53:LEU:HD21	7:BH:55:LEU:HD21	1.99	0.44
10:BK:43:VAL:O	10:BK:46:ARG:HG3	2.18	0.44
1:AA:296:ASN:HB2	3:AC:400:PRO:O	2.17	0.44
2:AB:71:VAL:HG21	2:AB:96:VAL:CG2	2.47	0.44
3:AC:235:GLY:O	3:AC:238:ILE:HB	2.18	0.44
3:AC:243:ILE:O	22:AC:506:CLA:HMC1	2.18	0.44
3:AC:363:GLY:O	3:AC:364:PRO:C	2.56	0.44
3:AC:449:ARG:NE	22:AC:505:CLA:HED1	2.22	0.44
7:AH:28:THR:O	7:AH:31:MET:HB3	2.18	0.44
8:AI:11:VAL:HG22	32:AI:102:LMT:H82	2.00	0.44
13:AO:116:ASP:OD1	13:AO:157:PRO:HB3	2.18	0.44
1:BA:39:PRO:HB2	22:BA:407:CLA:CBB	2.48	0.44
1:BA:214:MET:HE1	4:BD:142:ASN:ND2	2.33	0.44
3:BC:363:GLY:O	3:BC:367:GLU:HG2	2.17	0.44
12:BM:33:GLN:CG	12:BM:34:LYS:N	2.81	0.44
2:AB:18:ARG:HD2	2:AB:115:TRP:CE3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:25:MET:HE2	26:AB:617:BCR:H393	1.98	0.44
2:AB:271:THR:CG2	2:AB:273:TYR:HB2	2.48	0.44
2:AB:435:GLU:O	2:AB:436:THR:C	2.56	0.44
3:AC:163:PHE:CD1	3:AC:252:ILE:HD11	2.52	0.44
28:AC:521:LHG:H101	28:AC:521:LHG:H271	2.00	0.44
4:AD:209:LEU:O	4:AD:213:ILE:HG22	2.18	0.44
6:AF:16:PHE:O	29:AF:101:SQD:H461	2.18	0.44
26:AJ:102:BCR:H24C	26:AJ:102:BCR:H371	1.79	0.44
13:AO:230:VAL:CG1	13:AO:231:ASP:N	2.70	0.44
16:AV:59:PHE:CD1	16:AV:63:CYS:SG	3.08	0.44
1:BA:21:VAL:HG11	1:BA:32:TRP:CE3	2.53	0.44
1:BA:77:ILE:HG12	14:BT:6:TYR:CD1	2.53	0.44
1:BA:215:HIS:O	1:BA:216:GLY:C	2.56	0.44
2:BB:86:ILE:HD12	2:BB:86:ILE:C	2.37	0.44
2:BB:329:PRO:CB	22:BB:610:CLA:HED1	2.43	0.44
22:BB:610:CLA:H193	11:BL:27:LEU:HD11	1.99	0.44
3:BC:225:VAL:HG13	3:BC:289:PHE:HA	1.99	0.44
4:BD:180:ARG:HH11	4:BD:180:ARG:HG3	1.78	0.44
4:BD:253:TRP:HA	4:BD:256:ILE:HG23	1.99	0.44
13:BO:69:LEU:HB3	13:BO:107:ILE:CB	2.36	0.44
13:BO:86:ARG:C	13:BO:86:ARG:CD	2.84	0.44
13:BO:178:ARG:HD2	13:BO:182:PHE:CG	2.53	0.44
1:AA:107:TYR:HD1	13:AO:141:ARG:NH1	2.16	0.44
2:AB:27:THR:CG2	2:AB:107:LEU:HD13	2.45	0.44
3:AC:55:ALA:HB1	26:AC:514:BCR:C37	2.46	0.44
1:BA:153:SER:HB2	22:BA:403:CLA:H43	2.00	0.44
2:BB:7:ARG:HG2	22:BB:614:CLA:CED	2.48	0.44
2:BB:25:MET:HE2	26:BB:620:BCR:H393	2.00	0.44
2:BB:145:LEU:CD1	22:BB:618:CLA:HMB2	2.47	0.44
2:BB:413:ASP:O	2:BB:414:PRO:C	2.55	0.44
4:BD:36:LEU:C	4:BD:39:PRO:HD2	2.37	0.44
4:BD:101:PHE:O	4:BD:104:TRP:HB3	2.17	0.44
5:BE:20:TRP:HD1	9:BJ:8:ILE:HD13	1.83	0.44
7:BH:39:LEU:C	7:BH:39:LEU:HD23	2.38	0.44
13:BO:86:ARG:HD2	13:BO:87:GLN:N	2.32	0.44
1:AA:42:LEU:HA	1:AA:45:THR:HG22	2.00	0.44
2:AB:185:TRP:CE3	22:AB:601:CLA:H61	2.53	0.44
2:AB:206:GLY:O	2:AB:210:ILE:HG13	2.18	0.44
2:AB:263:THR:HB	2:AB:448:ARG:HH12	1.82	0.44
2:AB:422:ARG:HG2	2:AB:422:ARG:HH11	1.81	0.44
3:AC:50:LEU:O	3:AC:54:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:143:TYR:O	3:AC:144:SER:CB	2.64	0.44
26:AC:514:BCR:H11C	26:AK:102:BCR:H322	2.00	0.44
3:BC:245:ILE:O	3:BC:249:ILE:HG12	2.18	0.44
5:BE:34:GLY:O	5:BE:37:PHE:HB3	2.17	0.44
10:BK:44:GLY:O	10:BK:45:PHE:C	2.56	0.44
1:AA:64:ARG:O	13:AO:178:ARG:NH2	2.51	0.44
1:AA:220:THR:O	1:AA:223:LEU:HG	2.18	0.44
1:AA:247:ASN:HB3	1:AA:250:ALA:HB3	2.00	0.44
2:AB:298:LEU:HD12	2:AB:298:LEU:HA	1.75	0.44
3:AC:82:TYR:HA	3:AC:422:PRO:HG2	2.00	0.44
3:AC:208:VAL:O	3:AC:209:ILE:C	2.56	0.44
3:AC:269:GLU:O	3:AC:272:LEU:HB3	2.18	0.44
4:AD:253:TRP:HB2	4:AD:260:ALA:HB2	2.00	0.44
16:AV:81:ARG:HG2	16:AV:81:ARG:HH11	1.83	0.44
1:BA:12:ASN:O	1:BA:15:GLU:HB3	2.18	0.44
1:BA:214:MET:O	1:BA:215:HIS:C	2.54	0.44
2:BB:59:GLY:HA3	22:BB:610:CLA:CED	2.48	0.44
3:BC:140:LEU:HB2	3:BC:148:GLY:HA2	2.00	0.44
3:BC:229:ASN:ND2	3:BC:232:ASP:OD1	2.43	0.44
3:BC:258:GLY:C	3:BC:262:ARG:NH1	2.71	0.44
30:BI:101:LMG:H132	32:BI:102:LMT:O2'	2.18	0.44
1:AA:182:PHE:O	1:AA:186:PHE:HB2	2.18	0.43
1:AA:238:LYS:HA	1:AA:238:LYS:HD3	1.86	0.43
2:AB:118:TRP:CH2	11:AL:5:PRO:HD2	2.53	0.43
3:AC:472:LEU:HD12	3:AC:473:ASP:N	2.28	0.43
34:AE:101:HEM:HBC2	6:AF:27:ALA:CB	2.39	0.43
7:AH:18:TYR:CG	7:AH:19:GLY:N	2.85	0.43
10:AK:17:ILE:C	10:AK:18:PHE:HD2	2.21	0.43
20:AZ:5:PHE:CG	20:AZ:61:VAL:HG21	2.53	0.43
1:BA:183:MET:HG2	22:BA:404:CLA:HBC1	1.99	0.43
1:BA:324:ALA:O	1:BA:328:MET:HE3	2.18	0.43
2:BB:383:PHE:O	13:BO:192:SER:HA	2.18	0.43
22:BB:611:CLA:H92	29:BD:409:SQD:H172	2.00	0.43
5:BE:36:LEU:HA	5:BE:39:SER:OG	2.18	0.43
8:BI:6:ILE:CD1	32:BI:102:LMT:H5'	2.48	0.43
15:BU:73:PRO:HG2	16:BV:107:THR:HB	2.00	0.43
20:BZ:5:PHE:CD2	20:BZ:61:VAL:HG21	2.53	0.43
1:AA:217:SER:O	1:AA:220:THR:HG22	2.18	0.43
2:AB:442:ILE:HD11	13:AO:200:LEU:HD23	2.00	0.43
2:AB:484:PRO:O	2:AB:485:GLU:HG2	2.18	0.43
3:AC:386:PRO:HB3	16:AV:116:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AC:514:BCR:HC22	10:AK:18:PHE:HD1	1.83	0.43
4:AD:190:ASN:HB2	4:AD:296:TYR:CD1	2.52	0.43
4:AD:303:ILE:CD1	12:AM:2:GLU:HG2	2.48	0.43
16:AV:64:ALA:O	16:AV:65:SER:C	2.56	0.43
18:AX:32:LEU:HD23	18:AX:32:LEU:H	1.83	0.43
2:BB:243:ALA:HB2	2:BB:466:HIS:CE1	2.53	0.43
2:BB:343:HIS:O	2:BB:401:PHE:HA	2.18	0.43
2:BB:348:ASN:O	2:BB:349:LYS:C	2.56	0.43
3:BC:163:PHE:CG	22:BC:512:CLA:HAB	2.52	0.43
3:BC:365:TRP:HB3	3:BC:391:ARG:HG2	1.99	0.43
12:BM:3:VAL:HG11	14:BT:2:GLU:HG2	2.00	0.43
12:BM:18:PRO:O	12:BM:21:PHE:HB3	2.18	0.43
15:BU:64:ALA:O	15:BU:67:GLN:HG2	2.18	0.43
15:BU:99:GLU:HA	15:BU:102:LYS:HE3	1.99	0.43
1:AA:333:GLU:HB2	1:AA:337:HIS:HE1	1.83	0.43
2:AB:10:THR:C	2:AB:12:LEU:N	2.71	0.43
2:AB:164:PRO:HG2	2:AB:165:GLY:H	1.82	0.43
2:AB:229:LEU:HD11	22:AB:609:CLA:O1A	2.18	0.43
26:AB:618:BCR:C38	14:BT:4:ILE:HD13	2.48	0.43
3:AC:362:ARG:H	27:AC:516:DGD:HE4	1.83	0.43
4:AD:152:VAL:HG12	22:AD:402:CLA:H43	2.00	0.43
5:AE:72:ALA:O	5:AE:76:VAL:HG23	2.18	0.43
10:AK:17:ILE:HG22	10:AK:17:ILE:O	2.17	0.43
12:AM:33:GLN:HG2	12:AM:34:LYS:N	2.33	0.43
15:AU:54:LYS:HD2	15:AU:113:THR:CG2	2.49	0.43
2:BB:113:TRP:CE2	2:BB:117:TYR:CD2	3.06	0.43
2:BB:170:ASP:HB2	2:BB:171:PRO:HD2	2.01	0.43
2:BB:222:PRO:O	2:BB:223:GLN:C	2.56	0.43
2:BB:474:LEU:HD11	22:BB:611:CLA:HAA1	1.99	0.43
3:BC:456:GLU:OE1	3:BC:456:GLU:N	2.52	0.43
26:BD:406:BCR:H363	6:BF:33:PHE:HB3	2.01	0.43
7:BH:9:ASP:O	7:BH:12:ARG:HB3	2.18	0.43
10:BK:16:ALA:O	10:BK:19:ASP:HB2	2.18	0.43
13:BO:86:ARG:NH1	13:BO:86:ARG:O	2.44	0.43
13:BO:135:GLN:HE21	13:BO:135:GLN:HB3	1.57	0.43
1:AA:60:ILE:HG23	1:AA:61:ASP:N	2.32	0.43
2:AB:86:ILE:HD12	2:AB:86:ILE:C	2.38	0.43
2:AB:348:ASN:OD1	2:AB:352:GLU:HB2	2.18	0.43
22:AB:602:CLA:H122	22:AB:602:CLA:H162	1.79	0.43
3:AC:318:LEU:HG	3:AC:328:VAL:CG1	2.48	0.43
4:AD:161:PRO:HB3	4:AD:170:ALA:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:69:ARG:HG3	5:AE:70:PHE:N	2.34	0.43
7:AH:63:LYS:C	7:AH:65:LEU:N	2.70	0.43
8:AI:6:ILE:CD1	32:AI:102:LMT:H5'	2.48	0.43
15:AU:73:PRO:HG2	16:AV:107:THR:HB	2.01	0.43
1:BA:10:SER:C	1:BA:12:ASN:N	2.71	0.43
1:BA:212:CYS:HB2	4:BD:211:CYS:HB2	2.01	0.43
1:BA:329:GLU:O	1:BA:332:HIS:ND1	2.48	0.43
2:BB:368:VAL:HG21	2:BB:381:ILE:HD12	2.01	0.43
22:BC:501:CLA:HMB3	26:BC:515:BCR:C40	2.44	0.43
5:BE:49:THR:HA	5:BE:50:PRO:HD3	1.84	0.43
6:BF:41:GLN:OE1	9:BJ:31:GLY:HA3	2.18	0.43
20:BZ:23:VAL:HB	20:BZ:24:PRO:HD3	2.00	0.43
1:AA:39:PRO:HB2	22:AA:406:CLA:CBB	2.48	0.43
30:AA:413:LMG:H421	22:AB:611:CLA:H142	2.00	0.43
2:AB:284:ILE:HG23	2:AB:305:ILE:CD1	2.48	0.43
2:AB:366:PHE:CD1	2:AB:367:PRO:HD2	2.53	0.43
22:AB:607:CLA:CAC	26:AB:618:BCR:H393	2.49	0.43
3:AC:223:TRP:CE3	3:AC:224:ILE:HG13	2.53	0.43
4:AD:154:VAL:O	4:AD:158:LEU:HB2	2.18	0.43
5:AE:20:TRP:HD1	9:AJ:8:ILE:HD13	1.82	0.43
10:AK:46:ARG:NH1	10:AK:46:ARG:HB2	2.34	0.43
14:AT:4:ILE:HD13	26:AT:102:BCR:H381	2.00	0.43
14:AT:25:GLU:O	14:AT:26:PRO:C	2.54	0.43
26:AT:102:BCR:H271	22:BB:610:CLA:HMD3	2.01	0.43
3:BC:453:ALA:HA	8:BI:34:ARG:O	2.18	0.43
4:BD:244:TYR:HH	4:BD:264:LYS:HE3	1.82	0.43
18:BX:42:GLN:O	18:BX:43:ILE:HG13	2.18	0.43
1:AA:159:LEU:C	1:AA:162:PRO:HD2	2.38	0.43
1:AA:198:HIS:O	1:AA:202:VAL:HG12	2.18	0.43
1:AA:214:MET:HA	1:AA:214:MET:HE2	1.97	0.43
3:AC:160:ILE:HA	3:AC:163:PHE:CD2	2.53	0.43
20:AZ:36:SER:HA	20:AZ:39:LEU:CD1	2.48	0.43
3:BC:203:THR:O	3:BC:235:GLY:HA3	2.19	0.43
3:BC:452:ALA:O	3:BC:453:ALA:C	2.57	0.43
10:BK:17:ILE:N	10:BK:17:ILE:CD1	2.80	0.43
13:BO:225:LEU:N	13:BO:225:LEU:HD12	2.34	0.43
16:BV:63:CYS:O	16:BV:64:ALA:C	2.56	0.43
19:BY:23:UNK:O	19:BY:24:UNK:C	2.67	0.43
1:AA:153:SER:HB2	22:AA:402:CLA:H43	2.00	0.43
3:AC:162:GLY:O	3:AC:166:ILE:HG13	2.18	0.43
3:AC:163:PHE:CG	22:AC:512:CLA:HAB	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:460:ASP:O	3:AC:461:ARG:C	2.55	0.43
4:AD:101:PHE:O	4:AD:104:TRP:HB3	2.18	0.43
4:AD:126:MET:HE3	4:AD:150:ILE:HG13	2.00	0.43
4:AD:253:TRP:HA	4:AD:256:ILE:HG23	2.01	0.43
4:AD:263:ASN:O	4:AD:265:ARG:N	2.52	0.43
26:AD:406:BCR:H363	6:AF:33:PHE:HB3	2.00	0.43
5:AE:20:TRP:CD1	9:AJ:8:ILE:HD13	2.53	0.43
13:AO:171:GLU:HA	13:AO:221:GLY:O	2.19	0.43
20:AZ:30:PRO:C	20:AZ:32:ASP:N	2.72	0.43
1:BA:214:MET:HE1	4:BD:142:ASN:HD21	1.84	0.43
1:BA:220:THR:O	1:BA:223:LEU:HG	2.19	0.43
1:BA:330:VAL:HG11	4:BD:348:ARG:HG2	1.99	0.43
2:BB:69:LEU:HD21	22:BB:606:CLA:HED3	2.00	0.43
2:BB:229:LEU:O	2:BB:230:ARG:C	2.56	0.43
2:BB:472:ARG:HG2	2:BB:472:ARG:HH11	1.84	0.43
3:BC:110:PRO:O	3:BC:114:VAL:HG23	2.19	0.43
14:BT:29:ILE:O	14:BT:31:LYS:N	2.52	0.43
16:BV:81:ARG:HG2	16:BV:81:ARG:NH1	2.34	0.43
20:BZ:17:PHE:HE2	20:BZ:21:ILE:HD11	1.83	0.43
2:AB:349:LYS:HG2	2:AB:395:GLN:O	2.19	0.43
6:AF:24:HIS:HA	6:AF:27:ALA:HB3	2.00	0.43
7:AH:39:LEU:HD23	7:AH:39:LEU:C	2.39	0.43
12:AM:31:SER:HA	30:AM:101:LMG:HC3	2.01	0.43
14:AT:21:ILE:HD12	26:AT:102:BCR:H332	2.01	0.43
1:BA:239:PHE:O	14:BT:29:ILE:HA	2.19	0.43
28:BA:412:LHG:HC92	29:BA:413:SQD:O10	2.19	0.43
28:BA:412:LHG:HC81	3:BC:36:TRP:CZ3	2.54	0.43
2:BB:135:LEU:HD23	2:BB:138:MET:HE1	1.98	0.43
2:BB:354:LEU:HD12	2:BB:378:LYS:HB2	2.01	0.43
22:BB:605:CLA:H122	22:BB:605:CLA:H162	1.80	0.43
3:BC:28:GLN:HB2	22:BC:511:CLA:HED3	2.01	0.43
22:BC:505:CLA:H42	26:BC:515:BCR:H342	2.01	0.43
4:BD:323:GLU:HG2	13:BO:194:TYR:OH	2.19	0.43
15:BU:54:LYS:HD2	15:BU:113:THR:CG2	2.48	0.43
16:BV:119:PRO:HG3	16:BV:127:PHE:CD1	2.53	0.43
3:AC:464:GLU:O	3:AC:467:LEU:HB2	2.19	0.43
4:AD:203:GLY:O	4:AD:207:GLY:N	2.52	0.43
10:AK:43:VAL:O	10:AK:46:ARG:HG3	2.19	0.43
10:AK:44:GLY:O	10:AK:45:PHE:C	2.57	0.43
13:AO:70:CYS:O	13:AO:265:PHE:HB2	2.18	0.43
13:AO:168:PHE:O	13:AO:224:SER:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:111:PRO:O	1:BA:115:ILE:HG13	2.19	0.43
1:BA:131:TRP:CE3	1:BA:132:GLU:CA	3.02	0.43
1:BA:198:HIS:O	1:BA:202:VAL:HG12	2.19	0.43
1:BA:288:LEU:O	1:BA:292:THR:HB	2.18	0.43
4:BD:188:PHE:HE2	4:BD:329:MET:HE2	1.84	0.43
5:BE:20:TRP:CD1	9:BJ:8:ILE:HD13	2.54	0.43
7:BH:63:LYS:C	7:BH:65:LEU:N	2.71	0.43
26:BJ:102:BCR:H24C	26:BJ:102:BCR:H371	1.78	0.43
10:BK:17:ILE:C	10:BK:18:PHE:HD2	2.20	0.43
13:BO:168:PHE:O	13:BO:224:SER:HA	2.19	0.43
1:AA:222:SER:O	1:AA:246:TYR:HB2	2.19	0.43
2:AB:289:GLN:OE1	2:AB:292:LEU:HD12	2.19	0.43
3:AC:394:GLU:OE2	3:AC:398:HIS:CD2	2.71	0.43
4:AD:180:ARG:HH11	4:AD:180:ARG:HG3	1.79	0.43
13:AO:225:LEU:HD12	13:AO:225:LEU:N	2.33	0.43
13:AO:227:VAL:CG1	13:AO:228:ALA:N	2.82	0.43
2:BB:164:PRO:HG2	2:BB:165:GLY:H	1.83	0.43
2:BB:280:PHE:O	2:BB:284:ILE:HG13	2.19	0.43
2:BB:289:GLN:OE1	2:BB:289:GLN:HA	2.19	0.43
3:BC:165:LEU:HG	22:BC:507:CLA:HED1	2.00	0.43
3:BC:386:PRO:HB3	16:BV:116:GLU:HG2	2.00	0.43
3:BC:415:ASN:O	3:BC:416:SER:CB	2.64	0.43
22:BC:512:CLA:HMA2	22:BC:512:CLA:H162	2.01	0.43
4:BD:204:VAL:HG22	4:BD:279:LEU:HD21	2.01	0.43
19:BY:23:UNK:O	19:BY:25:UNK:N	2.52	0.43
2:AB:222:PRO:CG	7:AH:27:THR:H	2.28	0.42
2:AB:243:ALA:HB2	2:AB:466:HIS:CE1	2.54	0.42
2:AB:275:TRP:CH2	2:AB:358:ARG:HD3	2.54	0.42
3:AC:28:GLN:HB2	22:AC:511:CLA:HED3	2.00	0.42
4:AD:217:THR:HG21	24:AD:405:PL9:C1	2.49	0.42
7:AH:41:PHE:O	7:AH:45:ILE:HG23	2.18	0.42
10:AK:21:LEU:HD11	26:AK:102:BCR:C3	2.47	0.42
12:AM:19:SER:O	12:AM:23:ILE:HG13	2.18	0.42
15:AU:82:ASN:ND2	15:AU:94:ILE:HG23	2.34	0.42
2:BB:247:PHE:CE1	22:BB:605:CLA:H101	2.48	0.42
2:BB:464:PHE:HD2	22:BB:614:CLA:HAC2	1.84	0.42
22:BB:615:CLA:H162	22:BB:615:CLA:H122	1.84	0.42
3:BC:273:SER:OG	3:BC:274:TYR:N	2.52	0.42
4:BD:193:LEU:O	4:BD:193:LEU:HG	2.19	0.42
4:BD:291:LEU:O	4:BD:292:ASN:HB2	2.19	0.42
10:BK:46:ARG:HH11	10:BK:46:ARG:CB	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:BV:68:VAL:O	16:BV:68:VAL:HG13	2.19	0.42
1:AA:73:TYR:CE2	30:AA:416:LMG:HC61	2.53	0.42
1:AA:215:HIS:CD2	4:AD:268:HIS:HD2	2.37	0.42
1:AA:255:PHE:CE2	24:AA:407:PL9:H111	2.54	0.42
2:AB:464:PHE:HD2	22:AB:611:CLA:HAC2	1.84	0.42
3:AC:48:LYS:CD	3:AC:138:GLU:HG3	2.49	0.42
3:AC:437:PHE:CZ	22:AC:510:CLA:HMB3	2.55	0.42
22:AC:508:CLA:H172	27:AC:517:DGD:HBW2	2.01	0.42
4:AD:291:LEU:O	4:AD:292:ASN:HB2	2.18	0.42
9:AJ:15:THR:HG23	26:AK:102:BCR:H392	2.01	0.42
12:AM:5:GLN:NE2	32:AM:102:LMT:O2B	2.52	0.42
12:AM:33:GLN:CG	12:AM:34:LYS:N	2.82	0.42
13:AO:109:GLY:HA3	13:AO:122:VAL:O	2.18	0.42
1:BA:317:TRP:HZ3	4:BD:180:ARG:CD	2.20	0.42
2:BB:71:VAL:HG21	2:BB:96:VAL:HG21	2.01	0.42
3:BC:127:PHE:HE1	20:BZ:23:VAL:HG21	1.84	0.42
3:BC:437:PHE:CZ	22:BC:510:CLA:HMB3	2.54	0.42
22:BC:511:CLA:HMB2	26:BC:514:BCR:H382	2.01	0.42
6:BF:24:HIS:HA	6:BF:27:ALA:HB3	2.02	0.42
32:BT:101:LMT:H3'	32:BT:101:LMT:H1B	1.63	0.42
15:BU:80:VAL:HG22	15:BU:127:ARG:NH2	2.34	0.42
18:BX:45:LYS:N	18:BX:45:LYS:CD	2.82	0.42
19:BY:21:UNK:O	19:BY:22:UNK:C	2.66	0.42
1:AA:42:LEU:HA	1:AA:45:THR:CG2	2.49	0.42
1:AA:92:HIS:HD2	3:AC:219:GLY:HA3	1.84	0.42
1:AA:160:ILE:HD12	3:AC:431:PHE:CE1	2.54	0.42
2:AB:471:ALA:HB2	4:AD:130:PHE:CE2	2.53	0.42
3:AC:406:SER:HA	3:AC:420:VAL:CG2	2.49	0.42
3:AC:456:GLU:N	3:AC:456:GLU:OE1	2.53	0.42
22:AC:512:CLA:H162	22:AC:512:CLA:HMA2	2.01	0.42
4:AD:52:THR:HG22	4:AD:67:TYR:CE2	2.54	0.42
4:AD:56:THR:HB	5:AE:49:THR:HG23	2.01	0.42
5:AE:60:GLN:HG2	5:AE:62:SER:H	1.84	0.42
9:AJ:12:ILE:O	9:AJ:16:VAL:HG23	2.19	0.42
2:BB:234:ILE:C	2:BB:236:THR:H	2.23	0.42
2:BB:393:GLU:HG2	15:BU:44:ASP:O	2.19	0.42
22:BB:617:CLA:HBC2	22:BB:617:CLA:HMC1	2.02	0.42
3:BC:170:ILE:HD13	22:BC:513:CLA:H201	2.00	0.42
4:BD:294:ARG:H	4:BD:294:ARG:HG2	1.65	0.42
30:BD:408:LMG:HC2	30:BD:408:LMG:HC71	1.82	0.42
7:BH:11:LEU:C	7:BH:13:PRO:HD2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BJ:102:BCR:H15C	26:BJ:102:BCR:H351	1.91	0.42
10:BK:46:ARG:NH1	10:BK:46:ARG:CB	2.82	0.42
11:BL:12:LEU:HD22	12:BM:25:LEU:HD12	1.99	0.42
13:BO:144:LEU:CD1	13:BO:259:VAL:HG11	2.48	0.42
13:BO:218:LEU:HD22	15:BU:119:THR:CG2	2.40	0.42
15:BU:50:ALA:HB1	15:BU:113:THR:HG21	2.01	0.42
20:BZ:5:PHE:CG	20:BZ:61:VAL:HG21	2.54	0.42
2:AB:145:LEU:CD1	22:AB:615:CLA:HMB2	2.49	0.42
2:AB:234:ILE:C	2:AB:236:THR:H	2.23	0.42
2:AB:327:THR:O	2:AB:444:ARG:NE	2.46	0.42
27:AB:626:DGD:HA21	32:AB:627:LMT:H121	2.01	0.42
3:AC:174:LEU:HD12	22:AC:512:CLA:H71	2.01	0.42
3:AC:205:ASP:OD1	3:AC:207:ARG:HB3	2.19	0.42
4:AD:160:TYR:CB	4:AD:161:PRO:CD	2.96	0.42
4:AD:221:THR:CG2	4:AD:244:TYR:HB2	2.48	0.42
5:AE:34:GLY:O	5:AE:37:PHE:HB3	2.19	0.42
5:AE:35:TRP:CD1	5:AE:35:TRP:C	2.93	0.42
7:AH:55:LEU:HB2	7:AH:58:VAL:CG1	2.49	0.42
13:AO:69:LEU:HB3	13:AO:107:ILE:CB	2.35	0.42
15:AU:72:TYR:CG	15:AU:73:PRO:N	2.87	0.42
2:BB:120:LEU:HD13	22:BB:619:CLA:CMD	2.40	0.42
3:BC:33:PHE:CE1	4:BD:229:ALA:HB3	2.54	0.42
4:BD:52:THR:HG22	4:BD:67:TYR:CE2	2.54	0.42
9:BJ:15:THR:HG23	26:BK:102:BCR:H392	2.01	0.42
10:BK:18:PHE:O	10:BK:19:ASP:C	2.57	0.42
10:BK:28:ILE:O	10:BK:31:LEU:HB2	2.20	0.42
15:BU:42:VAL:HG23	15:BU:43:VAL:N	2.33	0.42
1:AA:77:ILE:HG12	14:AT:6:TYR:CD1	2.54	0.42
1:AA:207:GLY:O	1:AA:210:LEU:HB3	2.19	0.42
1:AA:228:THR:HB	1:AA:231:GLU:HB3	2.01	0.42
26:AA:409:BCR:H342	29:AA:415:SQD:H342	2.02	0.42
4:AD:89:LEU:HG	7:AH:50:ASN:OD1	2.20	0.42
10:AK:19:ASP:N	10:AK:20:PRO:CD	2.80	0.42
20:AZ:5:PHE:CD2	20:AZ:61:VAL:HG21	2.54	0.42
1:BA:42:LEU:HA	1:BA:45:THR:CG2	2.50	0.42
1:BA:136:ARG:NH2	8:BI:27:ASP:OD1	2.49	0.42
1:BA:217:SER:O	1:BA:220:THR:HG22	2.18	0.42
2:BB:169:SER:O	7:BH:65:LEU:HG	2.20	0.42
3:BC:321:ASP:HA	3:BC:324:LEU:HD23	2.01	0.42
4:BD:35:ILE:O	4:BD:39:PRO:HG2	2.20	0.42
4:BD:161:PRO:HB3	4:BD:170:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BO:59:ASP:O	13:BO:61:SER:N	2.53	0.42
20:BZ:30:PRO:C	20:BZ:32:ASP:N	2.72	0.42
2:AB:215:PHE:CD2	2:AB:215:PHE:C	2.93	0.42
2:AB:354:LEU:HD12	2:AB:378:LYS:HB2	2.02	0.42
2:AB:472:ARG:HG2	2:AB:472:ARG:HH11	1.84	0.42
3:AC:276:LEU:HD21	22:AC:508:CLA:HBB1	2.01	0.42
4:AD:263:ASN:O	4:AD:266:TRP:N	2.50	0.42
5:AE:15:THR:CG2	9:AJ:7:ARG:HG3	2.49	0.42
34:AE:101:HEM:HHA	34:AE:101:HEM:HAD2	1.57	0.42
9:AJ:7:ARG:HA	9:AJ:7:ARG:HE	1.83	0.42
16:AV:103:LYS:O	16:AV:122:ARG:HG2	2.19	0.42
1:BA:255:PHE:CE2	24:BA:408:PL9:H111	2.55	0.42
22:BB:612:CLA:NB	26:BX:101:BCR:H312	2.35	0.42
3:BC:35:TRP:CD2	3:BC:36:TRP:N	2.88	0.42
7:BH:28:THR:N	7:BH:29:PRO:HD2	2.35	0.42
13:BO:192:SER:OG	13:BO:193:GLY:N	2.53	0.42
16:BV:124:ALA:HB1	16:BV:131:ARG:CG	2.50	0.42
1:AA:22:THR:HG21	8:AI:30:ARG:CD	2.50	0.42
1:AA:73:TYR:CD2	30:AA:416:LMG:HC3	2.55	0.42
2:AB:59:GLY:HA3	22:AB:607:CLA:CED	2.50	0.42
2:AB:237:VAL:HG12	22:AB:612:CLA:HMD1	2.02	0.42
2:AB:413:ASP:O	2:AB:414:PRO:C	2.57	0.42
22:AB:612:CLA:H162	22:AB:612:CLA:H122	1.84	0.42
3:AC:321:ASP:HA	3:AC:324:LEU:HD23	2.01	0.42
3:AC:390:ARG:CZ	16:AV:126:ILE:HD13	2.50	0.42
4:AD:125:PHE:O	4:AD:128:ARG:HB3	2.19	0.42
4:AD:204:VAL:HG22	4:AD:279:LEU:HD21	2.01	0.42
5:AE:61:ARG:HH22	16:AV:153:GLY:HA3	1.85	0.42
6:AF:16:PHE:CD1	6:AF:16:PHE:N	2.88	0.42
10:AK:16:ALA:O	10:AK:19:ASP:HB2	2.20	0.42
12:AM:1:MET:HG2	12:AM:2:GLU:H	1.84	0.42
14:AT:22:PHE:C	14:AT:23:PHE:CD2	2.93	0.42
15:AU:91:VAL:HG13	15:AU:92:LEU:N	2.33	0.42
2:BB:9:HIS:HB2	22:BB:614:CLA:CBA	2.49	0.42
2:BB:71:VAL:HG21	2:BB:96:VAL:CG2	2.50	0.42
3:BC:48:LYS:HD2	3:BC:138:GLU:HG3	1.99	0.42
4:BD:77:ALA:CB	4:BD:174:GLY:HA3	2.50	0.42
5:BE:18:ARG:CD	5:BE:22:ILE:HD11	2.38	0.42
13:BO:215:ARG:NH1	13:BO:252:GLY:O	2.53	0.42
16:BV:59:PHE:CD1	16:BV:63:CYS:SG	3.08	0.42
34:BV:201:HEM:HHA	34:BV:201:HEM:HAD2	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:BX:16:LEU:HD11	18:BX:20:PHE:CE2	2.55	0.42
28:AA:411:LHG:HC92	29:AA:412:SQD:O10	2.20	0.42
2:AB:201:HIS:HD2	2:AB:202:HIS:ND1	2.16	0.42
4:AD:17:ILE:HG21	18:AX:42:GLN:HG3	2.02	0.42
5:AE:30:LEU:HD11	6:AF:28:VAL:HG13	2.02	0.42
6:AF:25:THR:O	6:AF:29:PRO:HG2	2.19	0.42
1:BA:42:LEU:HA	1:BA:45:THR:HG22	2.01	0.42
2:BB:263:THR:HB	2:BB:448:ARG:HH12	1.84	0.42
2:BB:442:ILE:HD11	13:BO:200:LEU:HD23	2.01	0.42
2:BB:463:PHE:CD2	2:BB:463:PHE:C	2.92	0.42
3:BC:429:SER:HA	27:BC:517:DGD:HAT1	2.02	0.42
26:BC:514:BCR:H341	26:BK:102:BCR:H322	2.00	0.42
26:BC:515:BCR:C33	8:BI:20:VAL:HG13	2.50	0.42
4:BD:17:ILE:HG21	18:BX:42:GLN:HG3	2.01	0.42
4:BD:92:LEU:HA	4:BD:104:TRP:CD1	2.55	0.42
34:BE:101:HEM:HHA	34:BE:101:HEM:HAD2	1.57	0.42
12:BM:31:SER:HA	30:BM:102:LMG:HC3	2.01	0.42
1:AA:279:PRO:HG2	4:AD:212:ALA:HB2	2.00	0.42
2:AB:18:ARG:HD3	2:AB:118:TRP:HB3	2.01	0.42
2:AB:377:VAL:HG11	4:AD:342:PRO:HG2	2.01	0.42
3:AC:140:LEU:HB2	3:AC:148:GLY:HA2	2.02	0.42
6:AF:15:ILE:HG22	6:AF:16:PHE:N	2.34	0.42
13:AO:59:ASP:O	13:AO:61:SER:N	2.53	0.42
16:AV:119:PRO:HA	16:AV:127:PHE:CD2	2.55	0.42
16:AV:130:MET:SD	16:AV:133:LEU:HD12	2.60	0.42
20:AZ:17:PHE:HE2	20:AZ:21:ILE:HD11	1.83	0.42
1:BA:306:VAL:CG1	1:BA:316:THR:HG23	2.49	0.42
2:BB:275:TRP:CH2	2:BB:358:ARG:HD3	2.55	0.42
2:BB:283:GLU:OE1	2:BB:283:GLU:HA	2.19	0.42
3:BC:67:MET:HE1	22:BC:504:CLA:ND	2.35	0.42
3:BC:249:ILE:O	3:BC:252:ILE:HB	2.20	0.42
3:BC:276:LEU:CD1	3:BC:444:HIS:HD2	2.33	0.42
4:BD:203:GLY:O	4:BD:207:GLY:N	2.51	0.42
8:BI:27:ASP:O	8:BI:28:PRO:C	2.56	0.42
9:BJ:7:ARG:HA	9:BJ:7:ARG:HE	1.85	0.42
13:BO:80:GLU:O	13:BO:89:ALA:CB	2.66	0.42
13:BO:227:VAL:CG1	13:BO:228:ALA:N	2.83	0.42
1:AA:12:ASN:O	1:AA:15:GLU:HB3	2.20	0.42
1:AA:96:ILE:C	1:AA:98:GLU:H	2.23	0.42
2:AB:237:VAL:HG22	22:AB:610:CLA:HBC2	2.01	0.42
2:AB:330:MET:SD	2:AB:446:SER:HB3	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:338:GLN:HB2	2:AB:431:GLU:O	2.20	0.42
2:AB:348:ASN:O	2:AB:349:LYS:C	2.57	0.42
2:AB:364:GLU:HG3	4:AD:296:TYR:CE2	2.55	0.42
22:AB:607:CLA:HMD3	26:AB:618:BCR:H271	2.02	0.42
27:AB:626:DGD:HE1	27:AB:626:DGD:HD5	1.66	0.42
30:AE:102:LMG:O9	30:AE:102:LMG:HC71	2.19	0.42
7:AH:13:PRO:HG2	7:AH:14:LEU:H	1.85	0.42
30:AI:101:LMG:H132	32:AI:102:LMT:O2'	2.20	0.42
9:AJ:11:TRP:CE2	9:AJ:12:ILE:HG12	2.55	0.42
1:BA:160:ILE:HD12	3:BC:431:PHE:CE1	2.55	0.42
1:BA:180:PHE:O	1:BA:184:ILE:HG13	2.20	0.42
1:BA:215:HIS:HA	24:BA:408:PL9:O1	2.20	0.42
1:BA:339:PHE:HB3	1:BA:340:PRO:HD2	2.02	0.42
2:BB:16:PRO:HG3	2:BB:133:LEU:HD11	2.01	0.42
2:BB:241:SER:HB3	22:BB:615:CLA:HED3	2.01	0.42
3:BC:142:GLU:C	3:BC:144:SER:H	2.22	0.42
3:BC:335:THR:HA	13:BO:178:ARG:CD	2.50	0.42
5:BE:60:GLN:HG2	5:BE:62:SER:H	1.84	0.42
6:BF:18:VAL:CG1	6:BF:19:ARG:N	2.82	0.42
1:AA:214:MET:HE1	4:AD:142:ASN:ND2	2.35	0.41
22:AB:615:CLA:H162	7:AH:7:LEU:HD21	2.02	0.41
22:AC:511:CLA:HMB2	26:AC:514:BCR:H382	2.02	0.41
13:AO:92:VAL:HG11	2:BB:84:THR:HG21	2.03	0.41
15:AU:50:ALA:HB1	15:AU:113:THR:HG21	2.01	0.41
18:AX:12:ILE:C	18:AX:12:ILE:HD13	2.40	0.41
1:BA:64:ARG:O	13:BO:178:ARG:NH2	2.53	0.41
1:BA:339:PHE:HB3	1:BA:340:PRO:CD	2.50	0.41
2:BB:153:PHE:O	2:BB:157:HIS:HB3	2.20	0.41
2:BB:349:LYS:HG2	2:BB:395:GLN:O	2.19	0.41
3:BC:269:GLU:O	3:BC:272:LEU:HB3	2.20	0.41
22:BC:513:CLA:H3A	22:BC:513:CLA:HBA2	1.81	0.41
4:BD:190:ASN:HB2	4:BD:296:TYR:CD1	2.55	0.41
5:BE:15:THR:O	9:BJ:8:ILE:CD1	2.68	0.41
6:BF:15:ILE:HG22	6:BF:16:PHE:N	2.34	0.41
9:BJ:11:TRP:CE2	9:BJ:12:ILE:HG12	2.55	0.41
30:BM:102:LMG:HC2	30:BM:102:LMG:HC72	1.96	0.41
18:BX:42:GLN:HE21	18:BX:42:GLN:HB2	1.63	0.41
1:AA:214:MET:HE1	4:AD:142:ASN:HD21	1.84	0.41
1:AA:296:ASN:HB3	3:AC:401:LEU:HA	2.01	0.41
13:AO:157:PRO:O	13:AO:158:ASN:O	2.38	0.41
1:BA:333:GLU:HB2	1:BA:337:HIS:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:18:ARG:HD2	2:BB:115:TRP:CE3	2.55	0.41
2:BB:124:ARG:NH1	2:BB:124:ARG:CG	2.82	0.41
2:BB:225:LEU:O	2:BB:226:TYR:C	2.59	0.41
22:BC:502:CLA:HBD	22:BC:503:CLA:H43	2.02	0.41
4:BD:19:ASP:O	4:BD:20:ASP:C	2.57	0.41
4:BD:185:PHE:HE2	4:BD:289:LEU:HD12	1.85	0.41
7:BH:55:LEU:HB2	7:BH:58:VAL:CG1	2.50	0.41
16:BV:69:GLY:O	16:BV:156:TRP:O	2.38	0.41
16:BV:160:LYS:HA	16:BV:163:TYR:CD2	2.56	0.41
20:BZ:22:GLY:O	20:BZ:23:VAL:C	2.58	0.41
1:AA:21:VAL:HG11	1:AA:32:TRP:CE3	2.55	0.41
2:AB:12:LEU:O	2:AB:14:ASN:N	2.53	0.41
3:AC:45:LEU:O	3:AC:46:SER:C	2.58	0.41
3:AC:188:THR:CG2	3:AC:298:PRO:HB3	2.51	0.41
30:AD:407:LMG:O4	9:AJ:31:GLY:O	2.39	0.41
9:AJ:36:LEU:C	9:AJ:38:SER:H	2.23	0.41
15:AU:75:LEU:O	15:AU:79:ILE:HG13	2.21	0.41
1:BA:96:ILE:C	1:BA:98:GLU:H	2.24	0.41
1:BA:157:VAL:HG13	1:BA:172:MET:HB3	2.01	0.41
2:BB:7:ARG:HG2	22:BB:614:CLA:HED1	2.01	0.41
2:BB:239:SER:O	2:BB:466:HIS:ND1	2.49	0.41
4:BD:192:THR:CG2	22:BD:402:CLA:HBC2	2.48	0.41
10:BK:43:VAL:CG2	10:BK:46:ARG:HE	2.33	0.41
13:BO:55:ALA:HA	13:BO:230:VAL:HG11	2.03	0.41
16:BV:103:LYS:O	16:BV:122:ARG:HG2	2.20	0.41
1:AA:317:TRP:O	1:AA:321:ILE:HG13	2.20	0.41
1:AA:343:LEU:O	1:AA:344:ALA:CB	2.66	0.41
26:AA:409:BCR:H342	29:AA:415:SQD:H311	2.02	0.41
2:AB:16:PRO:HB3	2:AB:133:LEU:HD21	2.02	0.41
2:AB:413:ASP:OD1	2:AB:416:THR:HB	2.20	0.41
2:AB:448:ARG:HH11	2:AB:448:ARG:HG3	1.84	0.41
3:AC:189:TRP:O	3:AC:190:ALA:C	2.59	0.41
3:AC:199:ILE:N	3:AC:199:ILE:CD1	2.83	0.41
3:AC:365:TRP:HB3	3:AC:391:ARG:HG2	2.02	0.41
22:AC:501:CLA:HMB3	26:AC:515:BCR:C40	2.46	0.41
13:AO:80:GLU:O	13:AO:89:ALA:CB	2.66	0.41
13:AO:147:THR:OG1	13:AO:148:VAL:N	2.54	0.41
32:AT:101:LMT:H1B	32:AT:101:LMT:H3'	1.64	0.41
19:AY:21:UNK:O	19:AY:22:UNK:C	2.68	0.41
2:BB:105:GLY:O	2:BB:108:PHE:HB3	2.20	0.41
3:BC:29:GLU:OE2	3:BC:31:SER:N	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:114:VAL:CG1	22:BC:503:CLA:HMA3	2.50	0.41
3:BC:198:VAL:HG12	3:BC:200:THR:HG23	2.02	0.41
3:BC:250:TRP:HE1	22:BC:506:CLA:HED1	1.84	0.41
4:BD:79:SER:HA	4:BD:172:SER:HB3	2.02	0.41
4:BD:209:LEU:O	4:BD:213:ILE:HG22	2.20	0.41
5:BE:30:LEU:HD11	6:BF:28:VAL:HG13	2.03	0.41
9:BJ:21:VAL:HA	9:BJ:24:ILE:HG22	2.03	0.41
10:BK:28:ILE:HA	10:BK:31:LEU:HD12	2.02	0.41
13:BO:81:GLU:HA	13:BO:82:PRO:HD3	1.89	0.41
13:BO:180:ALA:HB2	15:BU:120:ALA:O	2.19	0.41
19:BY:25:UNK:C	19:BY:27:UNK:N	2.82	0.41
1:AA:45:THR:HB	23:AA:405:PHO:H93	2.02	0.41
1:AA:206:PHE:HD2	1:AA:206:PHE:HA	1.76	0.41
2:AB:105:GLY:O	2:AB:108:PHE:HB3	2.19	0.41
3:AC:142:GLU:C	3:AC:144:SER:H	2.24	0.41
5:AE:78:THR:HA	5:AE:81:GLU:HG2	2.02	0.41
7:AH:10:ILE:H	7:AH:10:ILE:HG13	1.70	0.41
7:AH:53:LEU:HD21	7:AH:55:LEU:HD21	2.03	0.41
10:AK:11:LEU:O	10:AK:12:PRO:C	2.59	0.41
2:BB:18:ARG:HD3	2:BB:118:TRP:HB3	2.01	0.41
3:BC:42:LEU:HD11	22:BC:511:CLA:C1A	2.50	0.41
30:BC:519:LMG:H221	10:BK:30:VAL:CG1	2.50	0.41
4:BD:107:LEU:HD21	5:BE:76:VAL:HG21	2.01	0.41
5:BE:64:PRO:HB3	5:BE:84:LYS:CD	2.50	0.41
5:BE:64:PRO:CB	5:BE:84:LYS:HE2	2.50	0.41
7:BH:16:SER:C	7:BH:18:TYR:H	2.23	0.41
7:BH:28:THR:O	7:BH:31:MET:HB3	2.20	0.41
13:BO:83:LYS:CG	13:BO:84:ASN:H	2.24	0.41
18:BX:12:ILE:C	18:BX:12:ILE:HD13	2.40	0.41
1:AA:172:MET:SD	22:AA:403:CLA:HMC3	2.61	0.41
1:AA:215:HIS:HA	24:AA:407:PL9:O1	2.21	0.41
2:AB:383:PHE:O	13:AO:192:SER:HA	2.20	0.41
3:AC:202:PRO:HB2	3:AC:235:GLY:HA2	2.01	0.41
5:AE:15:THR:O	9:AJ:8:ILE:CD1	2.69	0.41
5:AE:82:GLN:H	5:AE:82:GLN:HG3	1.54	0.41
10:AK:28:ILE:O	10:AK:31:LEU:HB2	2.20	0.41
11:AL:22:LEU:O	11:AL:26:VAL:HG13	2.21	0.41
30:AM:101:LMG:HC2	30:AM:101:LMG:HC72	1.96	0.41
15:AU:89:GLU:CD	15:AU:89:GLU:N	2.73	0.41
16:AV:83:GLU:H	16:AV:83:GLU:CD	2.23	0.41
2:BB:118:TRP:CH2	11:BL:5:PRO:HD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:521:LHG:O9	28:BC:521:LHG:HC41	2.20	0.41
4:BD:56:THR:HB	5:BE:49:THR:HG23	2.02	0.41
4:BD:268:HIS:CE1	33:BD:401:BCT:O3	2.73	0.41
2:AB:24:LEU:HD13	2:AB:111:ALA:N	2.36	0.41
2:AB:191:ASN:OD1	2:AB:193:TYR:N	2.52	0.41
2:AB:463:PHE:CD2	2:AB:463:PHE:C	2.94	0.41
3:AC:116:VAL:CG2	3:AC:117:VAL:N	2.84	0.41
27:AC:518:DGD:HG2	9:AJ:33:TYR:OH	2.21	0.41
4:AD:26:ARG:HD3	6:AF:18:VAL:CG1	2.32	0.41
4:AD:190:ASN:HB2	4:AD:296:TYR:CE1	2.56	0.41
5:AE:49:THR:HA	5:AE:50:PRO:HD3	1.86	0.41
10:AK:43:VAL:CG2	10:AK:46:ARG:HE	2.33	0.41
13:AO:120:THR:HA	13:AO:153:ALA:O	2.21	0.41
13:AO:135:GLN:HE21	13:AO:135:GLN:HB3	1.56	0.41
13:AO:192:SER:OG	13:AO:193:GLY:N	2.54	0.41
1:BA:21:VAL:HG11	1:BA:32:TRP:CZ3	2.56	0.41
1:BA:249:VAL:HG11	2:BB:486:LEU:CD2	2.50	0.41
2:BB:191:ASN:ND2	7:BH:59:ASN:O	2.54	0.41
2:BB:377:VAL:HG11	4:BD:342:PRO:HG2	2.02	0.41
3:BC:141:GLU:HA	3:BC:148:GLY:HA3	2.03	0.41
3:BC:162:GLY:O	3:BC:166:ILE:HG13	2.21	0.41
5:BE:27:ILE:CB	5:BE:28:PRO:HD3	2.49	0.41
5:BE:84:LYS:HB2	5:BE:84:LYS:HZ3	1.82	0.41
13:BO:229:LYS:HB2	13:BO:238:ALA:HB3	2.02	0.41
16:BV:30:THR:HB	16:BV:31:PRO:HD2	2.02	0.41
1:AA:131:TRP:CE3	1:AA:132:GLU:CA	3.03	0.41
1:AA:277:ALA:O	1:AA:281:VAL:HG23	2.21	0.41
2:AB:479:PHE:O	2:AB:480:SER:CB	2.68	0.41
3:AC:101:PRO:O	3:AC:104:GLU:HB2	2.19	0.41
3:AC:203:THR:O	3:AC:235:GLY:HA3	2.20	0.41
26:AC:514:BCR:H341	26:AK:102:BCR:H322	2.02	0.41
12:AM:27:VAL:HG12	12:BM:28:GLN:CB	2.47	0.41
13:AO:73:PRO:HG2	13:AO:102:THR:HB	2.03	0.41
20:AZ:36:SER:C	20:AZ:38:GLN:H	2.24	0.41
1:BA:105:TRP:CZ3	1:BA:111:PRO:HG3	2.56	0.41
1:BA:202:VAL:O	1:BA:206:PHE:HB2	2.20	0.41
1:BA:296:ASN:HB3	3:BC:401:LEU:HA	2.02	0.41
22:BA:405:CLA:H202	30:BD:407:LMG:H401	2.03	0.41
2:BB:214:LEU:O	2:BB:218:LEU:HG	2.21	0.41
2:BB:331:ASN:HB3	2:BB:437:LEU:CD1	2.48	0.41
4:BD:128:ARG:O	4:BD:129:GLN:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:183:MET:HB3	22:AA:402:CLA:HBC2	2.02	0.41
1:AA:215:HIS:CD2	4:AD:268:HIS:CD2	3.08	0.41
1:AA:288:LEU:O	1:AA:292:THR:HB	2.21	0.41
2:AB:91:TRP:HE1	32:AB:624:LMT:H12	1.86	0.41
2:AB:393:GLU:HG2	15:AU:44:ASP:O	2.20	0.41
3:AC:165:LEU:HG	22:AC:507:CLA:HED1	2.03	0.41
3:AC:198:VAL:HG12	3:AC:200:THR:HG23	2.03	0.41
3:AC:258:GLY:C	3:AC:262:ARG:NH1	2.74	0.41
3:AC:267:SER:O	3:AC:271:TYR:CD2	2.74	0.41
3:AC:307:PRO:HG3	3:AC:358:PHE:CD1	2.56	0.41
3:AC:308:GLU:HG3	3:AC:361:PHE:CZ	2.56	0.41
3:AC:414:ILE:HG22	3:AC:415:ASN:N	2.35	0.41
4:AD:128:ARG:O	4:AD:129:GLN:C	2.59	0.41
4:AD:268:HIS:CE1	33:AD:401:BCT:O3	2.74	0.41
26:AJ:102:BCR:H15C	26:AJ:102:BCR:H351	1.91	0.41
10:AK:34:ALA:O	10:AK:37:PHE:HB2	2.20	0.41
13:AO:116:ASP:OD2	13:AO:116:ASP:C	2.58	0.41
14:AT:22:PHE:C	14:AT:23:PHE:HD2	2.24	0.41
15:AU:57:LEU:HD22	15:AU:79:ILE:CG2	2.51	0.41
16:AV:124:ALA:HB1	16:AV:131:ARG:CG	2.51	0.41
19:AY:23:UNK:O	19:AY:24:UNK:C	2.68	0.41
1:BA:22:THR:HG21	8:BI:30:ARG:CD	2.51	0.41
1:BA:24:THR:OG1	3:BC:469:MET:CE	2.68	0.41
1:BA:45:THR:HB	23:BA:406:PHO:H93	2.02	0.41
2:BB:30:VAL:HG11	22:BB:615:CLA:H112	2.03	0.41
2:BB:215:PHE:CD2	2:BB:215:PHE:C	2.95	0.41
2:BB:364:GLU:HG3	4:BD:296:TYR:CE2	2.56	0.41
3:BC:85:GLY:CA	27:BC:517:DGD:HE4	2.51	0.41
3:BC:116:VAL:CG2	3:BC:117:VAL:N	2.84	0.41
3:BC:160:ILE:HA	3:BC:163:PHE:CD2	2.55	0.41
3:BC:414:ILE:HG22	3:BC:415:ASN:O	2.21	0.41
3:BC:449:ARG:NE	22:BC:505:CLA:HED1	2.21	0.41
3:BC:464:GLU:O	3:BC:467:LEU:HB2	2.20	0.41
27:BC:518:DGD:HG2	9:BJ:33:TYR:OH	2.21	0.41
12:BM:19:SER:O	12:BM:23:ILE:HG13	2.20	0.41
13:BO:184:ASP:C	13:BO:184:ASP:OD1	2.59	0.41
15:BU:54:LYS:CB	15:BU:113:THR:HG23	2.47	0.41
19:BY:21:UNK:HA	19:BY:24:UNK:CB	2.50	0.41
1:AA:10:SER:OG	1:AA:13:LEU:HD12	2.20	0.41
1:AA:114:LEU:HD23	1:AA:114:LEU:O	2.21	0.41
1:AA:129:ARG:C	1:AA:131:TRP:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:334:ARG:NH1	13:AO:183:LEU:O	2.54	0.41
22:AA:403:CLA:H62	22:AA:403:CLA:H41	1.91	0.41
2:AB:113:TRP:CE2	2:AB:117:TYR:CD2	3.09	0.41
2:AB:137:LYS:NZ	7:AH:14:LEU:O	2.54	0.41
2:AB:168:VAL:O	2:AB:176:GLY:HA2	2.20	0.41
2:AB:331:ASN:HB3	2:AB:437:LEU:CD1	2.49	0.41
2:AB:447:PRO:O	2:AB:448:ARG:C	2.59	0.41
3:AC:80:PRO:HB3	3:AC:82:TYR:CE1	2.56	0.41
22:AC:512:CLA:HED2	22:AC:512:CLA:H2A	2.03	0.41
15:AU:55:ILE:HG21	15:AU:65:PHE:CE1	2.56	0.41
16:AV:30:THR:OG1	16:AV:32:GLU:HB3	2.21	0.41
16:AV:81:ARG:CG	16:AV:157:GLY:HA3	2.51	0.41
1:BA:20:TRP:O	1:BA:23:SER:HB3	2.20	0.41
1:BA:183:MET:HB3	22:BA:403:CLA:HBC2	2.02	0.41
1:BA:215:HIS:CD2	4:BD:268:HIS:CD2	3.09	0.41
1:BA:247:ASN:HB3	1:BA:250:ALA:HB3	2.01	0.41
22:BA:404:CLA:H62	22:BA:404:CLA:H41	1.92	0.41
2:BB:348:ASN:O	2:BB:350:GLU:N	2.54	0.41
3:BC:80:PRO:HB3	3:BC:82:TYR:CE1	2.56	0.41
3:BC:261:ARG:HA	3:BC:266:TRP:HZ2	1.86	0.41
3:BC:455:PHE:C	3:BC:457:LYS:H	2.24	0.41
22:BC:511:CLA:HBA2	26:BC:514:BCR:H271	2.03	0.41
4:BD:53:THR:CB	4:BD:67:TYR:HD2	2.34	0.41
4:BD:126:MET:HE3	4:BD:150:ILE:HG13	2.03	0.41
4:BD:263:ASN:O	4:BD:265:ARG:N	2.54	0.41
4:BD:283:ALA:HA	22:BD:402:CLA:HED2	2.03	0.41
8:BI:4:LEU:O	8:BI:8:VAL:HG23	2.20	0.41
9:BJ:36:LEU:C	9:BJ:38:SER:H	2.22	0.41
15:BU:38:GLU:CG	15:BU:39:LEU:N	2.81	0.41
22:AA:403:CLA:HAA1	24:AD:405:PL9:C36	2.51	0.40
2:AB:170:ASP:HB2	2:AB:171:PRO:HD2	2.02	0.40
2:AB:280:PHE:O	2:AB:284:ILE:HG13	2.20	0.40
5:AE:64:PRO:HB3	5:AE:84:LYS:CD	2.50	0.40
19:AY:23:UNK:O	19:AY:25:UNK:N	2.54	0.40
1:BA:257:ARG:HG3	1:BA:257:ARG:NH1	2.33	0.40
2:BB:137:LYS:HZ2	7:BH:14:LEU:C	2.23	0.40
2:BB:187:PRO:C	2:BB:189:GLY:H	2.24	0.40
2:BB:229:LEU:HD11	22:BB:612:CLA:O1A	2.21	0.40
3:BC:41:ARG:NH1	22:BC:511:CLA:HMD1	2.36	0.40
4:BD:14:TRP:CD2	4:BD:15:PHE:N	2.89	0.40
4:BD:161:PRO:CB	4:BD:170:ALA:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BE:14:ILE:O	5:BE:14:ILE:HG22	2.21	0.40
13:BO:44:LYS:HA	13:BO:72:GLN:OE1	2.21	0.40
1:AA:105:TRP:CZ3	1:AA:111:PRO:HG3	2.55	0.40
1:AA:339:PHE:HB3	1:AA:340:PRO:HD2	2.03	0.40
2:AB:16:PRO:HG3	2:AB:133:LEU:HD11	2.03	0.40
3:AC:461:ARG:HG3	3:AC:461:ARG:NH1	2.33	0.40
15:AU:75:LEU:HD21	15:AU:101:GLN:HB3	2.03	0.40
16:AV:58:LEU:HD13	16:AV:137:ASP:HB3	2.02	0.40
1:BA:126:TYR:O	1:BA:130:GLN:HG3	2.22	0.40
3:BC:155:ASN:O	3:BC:158:THR:CG2	2.69	0.40
3:BC:318:LEU:HG	3:BC:328:VAL:CG1	2.50	0.40
3:BC:350:ILE:CG2	3:BC:359:TRP:HB2	2.52	0.40
3:BC:394:GLU:OE2	3:BC:398:HIS:CD2	2.74	0.40
4:BD:205:LEU:HA	4:BD:205:LEU:HD12	1.72	0.40
30:BD:408:LMG:O6	11:BL:15:THR:HG21	2.21	0.40
12:BM:5:GLN:NE2	32:BM:101:LMT:O2B	2.55	0.40
1:AA:257:ARG:HG3	1:AA:257:ARG:NH1	2.35	0.40
2:AB:289:GLN:OE1	2:AB:289:GLN:HA	2.21	0.40
32:AD:411:LMT:O3'	18:AX:21:ILE:HG21	2.21	0.40
5:AE:14:ILE:O	5:AE:14:ILE:HG22	2.20	0.40
7:AH:63:LYS:C	7:AH:65:LEU:H	2.24	0.40
30:BA:414:LMG:H292	11:BL:20:GLY:HA2	2.04	0.40
2:BB:54:PRO:HD2	2:BB:57:ARG:HG3	2.04	0.40
3:BC:362:ARG:H	27:BC:516:DGD:HE4	1.87	0.40
4:BD:48:TRP:CE2	23:BD:403:PHO:H161	2.56	0.40
5:BE:15:THR:CG2	9:BJ:7:ARG:HG3	2.51	0.40
16:BV:83:GLU:CD	16:BV:83:GLU:H	2.25	0.40
1:AA:24:THR:OG1	3:AC:469:MET:CE	2.70	0.40
3:AC:42:LEU:HD11	22:AC:511:CLA:C1A	2.51	0.40
3:AC:464:GLU:HA	3:AC:465:PRO:HD2	1.72	0.40
22:AC:502:CLA:HBD	22:AC:503:CLA:H43	2.03	0.40
26:AC:515:BCR:C33	8:AI:20:VAL:HG13	2.52	0.40
4:AD:43:LEU:HD12	4:AD:43:LEU:HA	1.94	0.40
4:AD:302:GLU:OE1	4:AD:302:GLU:HA	2.20	0.40
15:AU:88:VAL:HG13	15:AU:109:LEU:HD22	2.03	0.40
15:AU:90:ASP:HA	15:AU:93:ASN:HD22	1.87	0.40
15:AU:94:ILE:HB	15:AU:97:LEU:HD11	2.03	0.40
16:AV:160:LYS:HA	16:AV:163:TYR:CD2	2.56	0.40
18:AX:43:ILE:O	18:AX:43:ILE:CG2	2.70	0.40
1:BA:30:VAL:O	1:BA:30:VAL:HG22	2.21	0.40
1:BA:271:LEU:HD21	24:BA:408:PL9:HC71	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BA:404:CLA:HAA1	24:BD:405:PL9:C36	2.51	0.40
2:BB:24:LEU:HD13	2:BB:111:ALA:N	2.37	0.40
2:BB:113:TRP:CD1	22:BB:619:CLA:HBA1	2.57	0.40
3:BC:109:PHE:CG	30:BC:520:LMG:HC61	2.56	0.40
3:BC:267:SER:O	3:BC:271:TYR:CD2	2.74	0.40
3:BC:461:ARG:HG3	3:BC:461:ARG:NH1	2.36	0.40
26:BC:515:BCR:H332	8:BI:20:VAL:HG13	2.02	0.40
4:BD:238:THR:O	4:BD:239:GLN:C	2.59	0.40
29:AA:412:SQD:H132	28:AC:521:LHG:H132	2.02	0.40
2:AB:222:PRO:O	2:AB:223:GLN:C	2.59	0.40
2:AB:233:ASN:O	2:AB:236:THR:HG22	2.22	0.40
3:AC:59:LEU:HD13	22:AC:510:CLA:HMD2	2.04	0.40
3:AC:94:THR:CG2	3:AC:298:PRO:HD2	2.51	0.40
3:AC:414:ILE:CG2	3:AC:415:ASN:N	2.84	0.40
3:AC:451:ALA:HA	3:AC:456:GLU:CD	2.41	0.40
28:AC:521:LHG:O9	28:AC:521:LHG:HC41	2.21	0.40
4:AD:205:LEU:HA	4:AD:205:LEU:HD12	1.71	0.40
7:AH:11:LEU:C	7:AH:13:PRO:HD2	2.42	0.40
9:AJ:9:PRO:HB2	9:AJ:12:ILE:HG13	2.03	0.40
13:AO:226:ASN:N	13:AO:226:ASN:ND2	2.69	0.40
26:AT:102:BCR:H393	22:BB:610:CLA:CAC	2.48	0.40
1:BA:116:ILE:HG13	1:BA:117:PHE:N	2.37	0.40
1:BA:291:SER:HB3	3:BC:431:PHE:CE2	2.57	0.40
2:BB:254:GLY:O	2:BB:258:TYR:HD2	2.05	0.40
2:BB:380:ASP:OD1	2:BB:380:ASP:C	2.59	0.40
2:BB:385:ARG:O	2:BB:386:ALA:C	2.60	0.40
2:BB:475:PHE:HB3	2:BB:478:VAL:CG2	2.52	0.40
3:BC:84:GLN:O	3:BC:86:LEU:HD13	2.22	0.40
3:BC:416:SER:OG	3:BC:417:VAL:N	2.54	0.40
4:BD:48:TRP:CD2	23:BD:403:PHO:H161	2.56	0.40
6:BF:25:THR:O	6:BF:29:PRO:HG2	2.21	0.40
7:BH:63:LYS:C	7:BH:65:LEU:H	2.23	0.40
8:BI:7:THR:O	8:BI:8:VAL:C	2.59	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AA	333/344 (97%)	285 (86%)	41 (12%)	7 (2%)	7	26
1	BA	333/344 (97%)	285 (86%)	41 (12%)	7 (2%)	7	26
2	AB	488/510 (96%)	417 (86%)	57 (12%)	14 (3%)	4	18
2	BB	488/510 (96%)	422 (86%)	52 (11%)	14 (3%)	4	18
3	AC	445/473 (94%)	371 (83%)	58 (13%)	16 (4%)	3	14
3	BC	445/473 (94%)	372 (84%)	56 (13%)	17 (4%)	3	13
4	AD	338/352 (96%)	286 (85%)	43 (13%)	9 (3%)	5	19
4	BD	338/352 (96%)	288 (85%)	42 (12%)	8 (2%)	6	22
5	AE	80/84 (95%)	71 (89%)	5 (6%)	4 (5%)	2	7
5	BE	80/84 (95%)	70 (88%)	6 (8%)	4 (5%)	2	7
6	AF	33/45 (73%)	24 (73%)	8 (24%)	1 (3%)	4	17
6	BF	33/45 (73%)	24 (73%)	8 (24%)	1 (3%)	4	17
7	AH	63/66 (96%)	47 (75%)	10 (16%)	6 (10%)	0	1
7	BH	63/66 (96%)	48 (76%)	11 (18%)	4 (6%)	1	4
8	AI	33/38 (87%)	20 (61%)	11 (33%)	2 (6%)	1	4
8	BI	33/38 (87%)	21 (64%)	10 (30%)	2 (6%)	1	4
9	AJ	32/40 (80%)	26 (81%)	4 (12%)	2 (6%)	1	4
9	BJ	32/40 (80%)	26 (81%)	4 (12%)	2 (6%)	1	4
10	AK	35/37 (95%)	28 (80%)	5 (14%)	2 (6%)	1	5
10	BK	35/37 (95%)	28 (80%)	5 (14%)	2 (6%)	1	5
11	AL	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
11	BL	35/37 (95%)	33 (94%)	2 (6%)	0	100	100
12	AM	32/36 (89%)	23 (72%)	9 (28%)	0	100	100
12	BM	32/36 (89%)	24 (75%)	8 (25%)	0	100	100
13	AO	241/247 (98%)	199 (83%)	30 (12%)	12 (5%)	2	7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	BO	241/247 (98%)	199 (83%)	31 (13%)	11 (5%)	2	9
14	AT	30/32 (94%)	25 (83%)	4 (13%)	1 (3%)	4	15
14	BT	30/32 (94%)	25 (83%)	4 (13%)	1 (3%)	4	15
15	AU	95/104 (91%)	79 (83%)	12 (13%)	4 (4%)	3	10
15	BU	95/104 (91%)	79 (83%)	12 (13%)	4 (4%)	3	10
16	AV	135/137 (98%)	111 (82%)	23 (17%)	1 (1%)	22	54
16	BV	135/137 (98%)	112 (83%)	22 (16%)	1 (1%)	22	54
17	Ay	26/46 (56%)	14 (54%)	8 (31%)	4 (15%)	0	0
17	By	26/46 (56%)	14 (54%)	8 (31%)	4 (15%)	0	0
18	AX	35/50 (70%)	26 (74%)	5 (14%)	4 (11%)	0	1
18	BX	35/50 (70%)	27 (77%)	4 (11%)	4 (11%)	0	1
20	AZ	60/62 (97%)	48 (80%)	9 (15%)	3 (5%)	2	7
20	BZ	60/62 (97%)	48 (80%)	9 (15%)	3 (5%)	2	7
All	All	5138/5480 (94%)	4278 (83%)	679 (13%)	181 (4%)	3	14

All (181) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AA	12	ASN
1	AA	141	PRO
1	AA	142	TRP
2	AB	176	GLY
2	AB	230	ARG
2	AB	484	PRO
2	AB	488	PRO
3	AC	144	SER
3	AC	257	PHE
3	AC	416	SER
3	AC	452	ALA
4	AD	239	GLN
4	AD	240	ALA
4	AD	262	SER
5	AE	82	GLN
7	AH	18	TYR
8	AI	25	SER
9	AJ	35	GLY
13	AO	52	ALA

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
14	AT	30	THR
15	AU	72	TYR
15	AU	83	ALA
16	AV	75	ASN
17	Ay	43	ARG
18	AX	45	LYS
20	AZ	32	ASP
1	BA	12	ASN
1	BA	141	PRO
1	BA	142	TRP
2	BB	176	GLY
2	BB	230	ARG
2	BB	484	PRO
2	BB	488	PRO
3	BC	144	SER
3	BC	257	PHE
3	BC	416	SER
3	BC	452	ALA
4	BD	239	GLN
4	BD	240	ALA
4	BD	262	SER
7	BH	18	TYR
8	BI	25	SER
9	BJ	35	GLY
13	BO	52	ALA
14	BT	30	THR
15	BU	72	TYR
15	BU	83	ALA
17	By	43	ARG
18	BX	45	LYS
20	BZ	32	ASP
2	AB	349	LYS
3	AC	46	SER
3	AC	136	GLY
3	AC	194	GLY
3	AC	209	ILE
3	AC	456	GLU
4	AD	234	ALA
4	AD	264	LYS
7	AH	26	GLY
9	AJ	38	SER
13	AO	231	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	AU	73	PRO
17	Ay	25	ILE
18	AX	43	ILE
2	BB	349	LYS
2	BB	436	THR
3	BC	136	GLY
3	BC	141	GLU
3	BC	194	GLY
4	BD	234	ALA
5	BE	82	GLN
7	BH	26	GLY
9	BJ	38	SER
13	BO	158	ASN
13	BO	231	ASP
15	BU	73	PRO
16	BV	75	ASN
18	BX	43	ILE
2	AB	127	ARG
2	AB	183	PRO
2	AB	414	PRO
2	AB	436	THR
3	AC	32	GLY
3	AC	141	GLU
3	AC	375	LEU
3	AC	453	ALA
4	AD	263	ASN
5	AE	9	PRO
7	AH	16	SER
10	AK	13	GLU
10	AK	45	PHE
13	AO	60	SER
13	AO	158	ASN
13	AO	165	SER
20	AZ	24	PRO
20	AZ	28	ALA
2	BB	13	ILE
2	BB	127	ARG
2	BB	183	PRO
2	BB	414	PRO
3	BC	32	GLY
3	BC	46	SER
3	BC	209	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	BC	375	LEU
3	BC	411	ALA
3	BC	456	GLU
4	BD	263	ASN
4	BD	264	LYS
5	BE	9	PRO
7	BH	16	SER
10	BK	13	GLU
10	BK	45	PHE
13	BO	165	SER
17	By	25	ILE
20	BZ	24	PRO
20	BZ	28	ALA
2	AB	13	ILE
2	AB	173	GLY
2	AB	231	MET
2	AB	235	GLU
3	AC	154	LYS
4	AD	73	PHE
5	AE	10	PHE
13	AO	51	THR
13	AO	82	PRO
17	Ay	24	MET
18	AX	44	ASP
2	BB	235	GLU
5	BE	10	PHE
13	BO	60	SER
13	BO	82	PRO
1	AA	97	TRP
3	AC	462	GLU
6	AF	41	GLN
7	AH	6	TRP
15	AU	42	VAL
18	AX	12	ILE
2	BB	435	GLU
3	BC	453	ALA
3	BC	462	GLU
4	BD	252	PHE
6	BF	41	GLN
7	BH	6	TRP
13	BO	85	LYS
13	BO	88	GLU

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Mol	Chain	Res	Type
15	BU	42	VAL
17	By	24	MET
18	BX	44	ASP
1	AA	334	ARG
4	AD	351	ALA
7	AH	14	LEU
13	AO	88	GLU
1	BA	97	TRP
1	BA	334	ARG
2	BB	173	GLY
3	BC	382	ASN
4	BD	351	ALA
5	BE	52	PRO
13	BO	51	THR
13	BO	159	VAL
18	BX	12	ILE
1	AA	21	VAL
2	AB	16	PRO
13	AO	159	VAL
1	BA	21	VAL
17	By	35	ILE
3	AC	201	ASN
17	Ay	35	ILE
3	BC	201	ASN
5	AE	52	PRO
7	AH	60	VAL
8	AI	32	PRO
13	AO	232	GLY
2	BB	16	PRO
8	BI	32	PRO
1	AA	176	ILE
4	AD	160	TYR
13	AO	127	ILE
1	BA	39	PRO
13	AO	152	VAL
13	BO	152	VAL

### 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	AA	271/280 (97%)	258 (95%)	13 (5%)	25	58
1	BA	271/280 (97%)	259 (96%)	12 (4%)	28	61
2	AB	390/407 (96%)	374 (96%)	16 (4%)	30	64
2	BB	390/407 (96%)	373 (96%)	17 (4%)	28	61
3	AC	347/374 (93%)	329 (95%)	18 (5%)	23	55
3	BC	347/374 (93%)	329 (95%)	18 (5%)	23	55
4	AD	275/283 (97%)	256 (93%)	19 (7%)	15	41
4	BD	275/283 (97%)	256 (93%)	19 (7%)	15	41
5	AE	72/73 (99%)	66 (92%)	6 (8%)	11	32
5	BE	72/73 (99%)	66 (92%)	6 (8%)	11	32
6	AF	29/39 (74%)	29 (100%)	0	100	100
6	BF	29/39 (74%)	29 (100%)	0	100	100
7	AH	53/55 (96%)	50 (94%)	3 (6%)	20	51
7	BH	53/55 (96%)	50 (94%)	3 (6%)	20	51
8	AI	32/35 (91%)	31 (97%)	1 (3%)	40	74
8	BI	32/35 (91%)	31 (97%)	1 (3%)	40	74
9	AJ	24/28 (86%)	23 (96%)	1 (4%)	30	63
9	BJ	24/28 (86%)	23 (96%)	1 (4%)	30	63
10	AK	30/30 (100%)	28 (93%)	2 (7%)	16	43
10	BK	30/30 (100%)	28 (93%)	2 (7%)	16	43
11	AL	35/35 (100%)	31 (89%)	4 (11%)	5	17
11	BL	35/35 (100%)	32 (91%)	3 (9%)	10	30
12	AM	31/33 (94%)	31 (100%)	0	100	100
12	BM	31/33 (94%)	31 (100%)	0	100	100
13	AO	202/208 (97%)	195 (96%)	7 (4%)	36	70
13	BO	202/208 (97%)	194 (96%)	8 (4%)	31	65
14	AT	29/29 (100%)	28 (97%)	1 (3%)	37	71
14	BT	29/29 (100%)	28 (97%)	1 (3%)	37	71
15	AU	84/89 (94%)	80 (95%)	4 (5%)	25	58
15	BU	84/89 (94%)	80 (95%)	4 (5%)	25	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	AV	116/117 (99%)	111 (96%)	5 (4%)	29	62
16	BV	116/117 (99%)	111 (96%)	5 (4%)	29	62
17	Ay	20/37 (54%)	18 (90%)	2 (10%)	7	23
17	By	20/37 (54%)	18 (90%)	2 (10%)	7	23
18	AX	30/42 (71%)	26 (87%)	4 (13%)	4	11
18	BX	30/42 (71%)	26 (87%)	4 (13%)	4	11
20	AZ	52/52 (100%)	47 (90%)	5 (10%)	8	25
20	BZ	52/52 (100%)	47 (90%)	5 (10%)	8	25
All	All	4244/4492 (94%)	4022 (95%)	222 (5%)	23	55

All (222) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	30	VAL
1	AA	32	TRP
1	AA	157	VAL
1	AA	170	ASP
1	AA	202	VAL
1	AA	206	PHE
1	AA	234	ASN
1	AA	243	GLU
1	AA	271	LEU
1	AA	286	THR
1	AA	292	THR
1	AA	298	ASN
1	AA	308	ASP
2	AB	11	VAL
2	AB	18	ARG
2	AB	84	THR
2	AB	223	GLN
2	AB	246	PHE
2	AB	262	THR
2	AB	308	LYS
2	AB	309	LEU
2	AB	362	PHE
2	AB	414	PRO
2	AB	422	ARG
2	AB	433	ASP
2	AB	483	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	AB	486	LEU
2	AB	488	PRO
2	AB	490	GLN
3	AC	29	GLU
3	AC	78	GLU
3	AC	86	LEU
3	AC	104	GLU
3	AC	165	LEU
3	AC	174	LEU
3	AC	201	ASN
3	AC	207	ARG
3	AC	232	ASP
3	AC	244	CYS
3	AC	289	PHE
3	AC	305	THR
3	AC	355	THR
3	AC	382	ASN
3	AC	391	ARG
3	AC	401	LEU
3	AC	447	ARG
3	AC	472	LEU
4	AD	20	ASP
4	AD	43	LEU
4	AD	53	THR
4	AD	60	THR
4	AD	84	SER
4	AD	91	LEU
4	AD	130	PHE
4	AD	180	ARG
4	AD	201	VAL
4	AD	221	THR
4	AD	236	ASN
4	AD	241	GLU
4	AD	256	ILE
4	AD	259	ILE
4	AD	279	LEU
4	AD	291	LEU
4	AD	294	ARG
4	AD	323	GLU
4	AD	346	LEU
5	AE	5	THR
5	AE	9	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	AE	18	ARG
5	AE	77	GLU
5	AE	82	GLN
5	AE	84	LYS
7	AH	27	THR
7	AH	49	TYR
7	AH	60	VAL
8	AI	33	LYS
9	AJ	7	ARG
10	AK	18	PHE
10	AK	19	ASP
11	AL	7	ARG
11	AL	8	GLN
11	AL	11	GLU
11	AL	15	THR
13	AO	31	LEU
13	AO	86	ARG
13	AO	97	VAL
13	AO	106	GLN
13	AO	141	ARG
13	AO	178	ARG
13	AO	219	THR
14	AT	29	ILE
15	AU	61	ASN
15	AU	88	VAL
15	AU	114	VAL
15	AU	132	LEU
16	AV	35	THR
16	AV	63	CYS
16	AV	92	ARG
16	AV	116	GLU
16	AV	122	ARG
17	Ay	28	ILE
17	Ay	46	LEU
18	AX	11	THR
18	AX	12	ILE
18	AX	42	GLN
18	AX	45	LYS
20	AZ	14	ILE
20	AZ	25	VAL
20	AZ	33	TRP
20	AZ	58	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	AZ	62	VAL
1	BA	30	VAL
1	BA	32	TRP
1	BA	157	VAL
1	BA	170	ASP
1	BA	202	VAL
1	BA	206	PHE
1	BA	243	GLU
1	BA	271	LEU
1	BA	286	THR
1	BA	292	THR
1	BA	298	ASN
1	BA	308	ASP
2	BB	11	VAL
2	BB	18	ARG
2	BB	84	THR
2	BB	223	GLN
2	BB	246	PHE
2	BB	262	THR
2	BB	308	LYS
2	BB	309	LEU
2	BB	362	PHE
2	BB	414	PRO
2	BB	422	ARG
2	BB	433	ASP
2	BB	436	THR
2	BB	483	ASP
2	BB	486	LEU
2	BB	488	PRO
2	BB	490	GLN
3	BC	29	GLU
3	BC	78	GLU
3	BC	86	LEU
3	BC	104	GLU
3	BC	165	LEU
3	BC	174	LEU
3	BC	201	ASN
3	BC	207	ARG
3	BC	232	ASP
3	BC	244	CYS
3	BC	289	PHE
3	BC	305	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	BC	355	THR
3	BC	382	ASN
3	BC	391	ARG
3	BC	401	LEU
3	BC	447	ARG
3	BC	472	LEU
4	BD	20	ASP
4	BD	43	LEU
4	BD	53	THR
4	BD	60	THR
4	BD	84	SER
4	BD	91	LEU
4	BD	130	PHE
4	BD	180	ARG
4	BD	201	VAL
4	BD	221	THR
4	BD	236	ASN
4	BD	241	GLU
4	BD	256	ILE
4	BD	259	ILE
4	BD	279	LEU
4	BD	291	LEU
4	BD	294	ARG
4	BD	323	GLU
4	BD	346	LEU
5	BE	5	THR
5	BE	9	PRO
5	BE	18	ARG
5	BE	77	GLU
5	BE	82	GLN
5	BE	84	LYS
7	BH	27	THR
7	BH	49	TYR
7	BH	60	VAL
8	BI	33	LYS
9	BJ	7	ARG
10	BK	18	PHE
10	BK	19	ASP
11	BL	7	ARG
11	BL	8	GLN
11	BL	11	GLU
13	BO	31	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
13	BO	86	ARG
13	BO	97	VAL
13	BO	106	GLN
13	BO	141	ARG
13	BO	178	ARG
13	BO	217	SER
13	BO	219	THR
14	BT	29	ILE
15	BU	61	ASN
15	BU	88	VAL
15	BU	114	VAL
15	BU	132	LEU
16	BV	35	THR
16	BV	63	CYS
16	BV	92	ARG
16	BV	116	GLU
16	BV	122	ARG
17	By	28	ILE
17	By	46	LEU
18	BX	11	THR
18	BX	12	ILE
18	BX	42	GLN
18	BX	45	LYS
20	BZ	14	ILE
20	BZ	25	VAL
20	BZ	33	TRP
20	BZ	58	ASN
20	BZ	62	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (69) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	12	ASN
1	AA	19	ASN
1	AA	234	ASN
1	AA	241	GLN
2	AB	201	HIS
2	AB	216	HIS
2	AB	490	GLN
3	AC	155	ASN
3	AC	398	HIS
3	AC	418	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AC	444	HIS
4	AD	98	GLN
4	AD	117	HIS
4	AD	129	GLN
4	AD	142	ASN
4	AD	239	GLN
4	AD	250	ASN
7	AH	59	ASN
11	AL	6	ASN
11	AL	8	GLN
12	AM	5	GLN
12	AM	33	GLN
13	AO	87	GLN
13	AO	106	GLN
13	AO	114	ASN
13	AO	135	GLN
13	AO	150	ASN
13	AO	173	ASN
13	AO	222	GLN
13	AO	226	ASN
15	AU	82	ASN
15	AU	93	ASN
17	Ay	21	GLN
18	AX	42	GLN
20	AZ	6	GLN
1	BA	12	ASN
1	BA	19	ASN
1	BA	234	ASN
1	BA	241	GLN
2	BB	201	HIS
2	BB	216	HIS
2	BB	490	GLN
3	BC	155	ASN
3	BC	398	HIS
3	BC	418	ASN
3	BC	444	HIS
4	BD	98	GLN
4	BD	117	HIS
4	BD	129	GLN
4	BD	142	ASN
4	BD	239	GLN
4	BD	250	ASN

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Mol	Chain	Res	Type
7	BH	59	ASN
11	BL	6	ASN
11	BL	8	GLN
12	BM	5	GLN
12	BM	33	GLN
13	BO	87	GLN
13	BO	106	GLN
13	BO	114	ASN
13	BO	135	GLN
13	BO	150	ASN
13	BO	173	ASN
13	BO	222	GLN
13	BO	226	ASN
15	BU	82	ASN
15	BU	93	ASN
18	BX	42	GLN
20	BZ	6	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](#)

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

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

Of 184 ligands modelled in this entry, 8 are monoatomic - leaving 176 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
22	CLA	AB	609	2	65,73,73	1.49	8 (12%)	76,113,113	1.76	11 (14%)
22	CLA	BA	405	-	65,73,73	1.31	7 (10%)	76,113,113	1.81	11 (14%)
32	LMT	AI	102	-	36,36,36	1.44	4 (11%)	47,47,47	0.96	1 (2%)
27	DGD	AC	518	-	67,67,67	1.05	6 (8%)	81,81,81	1.27	4 (4%)
34	HEM	BE	101	5,6	41,50,50	2.00	12 (29%)	45,82,82	2.56	13 (28%)
22	CLA	AA	404	-	65,73,73	1.25	7 (10%)	76,113,113	1.78	12 (15%)
27	DGD	BB	602	-	53,53,67	1.88	17 (32%)	67,67,81	1.57	8 (11%)
22	CLA	AB	611	2	65,73,73	1.24	7 (10%)	76,113,113	1.76	9 (11%)
22	CLA	AB	602	2	65,73,73	1.33	6 (9%)	76,113,113	1.71	12 (15%)
27	DGD	BC	517	-	63,63,67	1.11	6 (9%)	77,77,81	1.62	8 (10%)
22	CLA	BB	606	2	65,73,73	1.33	8 (12%)	76,113,113	1.77	10 (13%)
30	LMG	AM	101	-	42,42,55	1.63	7 (16%)	50,50,63	1.16	5 (10%)
24	PL9	BJ	101	-	35,35,55	1.44	5 (14%)	44,45,69	1.69	13 (29%)
29	SQD	BL	101	-	46,47,54	2.63	22 (47%)	55,58,65	2.69	15 (27%)
32	LMT	BB	603	-	36,36,36	1.45	7 (19%)	47,47,47	1.05	3 (6%)
22	CLA	BB	607	2	65,73,73	1.58	10 (15%)	76,113,113	1.89	10 (13%)
22	CLA	BD	404	-	65,73,73	1.45	9 (13%)	76,113,113	1.80	11 (14%)
24	PL9	AD	405	-	55,55,55	0.56	0	68,69,69	1.71	18 (26%)
26	BCR	AB	618	-	41,41,41	1.71	6 (14%)	56,56,56	2.20	26 (46%)
26	BCR	AT	102	-	41,41,41	1.63	6 (14%)	56,56,56	2.20	25 (44%)
22	CLA	BB	615	-	65,73,73	1.40	8 (12%)	76,113,113	1.80	11 (14%)
28	LHG	AA	411	-	38,38,48	1.99	5 (13%)	41,44,54	1.40	4 (9%)
26	BCR	AC	514	-	41,41,41	1.77	8 (19%)	56,56,56	2.12	22 (39%)
26	BCR	BB	620	-	41,41,41	1.57	8 (19%)	56,56,56	1.99	15 (26%)
34	HEM	BV	201	16	41,50,50	1.90	11 (26%)	45,82,82	2.31	12 (26%)
32	LMT	AT	101	-	36,36,36	1.37	5 (13%)	47,47,47	1.08	4 (8%)
22	CLA	BC	511	3	65,73,73	1.58	8 (12%)	76,113,113	1.93	11 (14%)
22	CLA	AC	501	3	65,73,73	1.38	7 (10%)	76,113,113	1.83	11 (14%)
22	CLA	AA	402	1	65,73,73	1.38	8 (12%)	76,113,113	1.79	9 (11%)
22	CLA	BB	616	-	65,73,73	1.20	8 (12%)	76,113,113	1.79	11 (14%)
26	BCR	BB	622	-	41,41,41	1.83	8 (19%)	56,56,56	2.04	17 (30%)
22	CLA	BB	611	2	65,73,73	1.46	11 (16%)	76,113,113	1.77	13 (17%)
22	CLA	BA	403	1	65,73,73	1.44	9 (13%)	76,113,113	1.78	9 (11%)
30	LMG	BC	519	-	48,48,55	1.28	6 (12%)	56,56,63	0.83	2 (3%)
26	BCR	BJ	102	-	41,41,41	2.15	9 (21%)	56,56,56	3.35	23 (41%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
30	LMG	AB	623	-	42,42,55	1.50	8 (19%)	50,50,63	1.00	3 (6%)
29	SQD	AA	412	-	50,51,54	2.39	24 (48%)	59,62,65	2.78	19 (32%)
32	LMT	BI	102	-	36,36,36	1.54	4 (11%)	47,47,47	0.97	2 (4%)
27	DGD	BC	516	-	54,54,67	1.36	9 (16%)	68,68,81	1.50	6 (8%)
22	CLA	BB	605	2	65,73,73	1.31	7 (10%)	76,113,113	1.70	13 (17%)
30	LMG	BD	407	-	46,46,55	1.04	4 (8%)	54,54,63	0.91	2 (3%)
22	CLA	AB	604	2	65,73,73	1.54	10 (15%)	76,113,113	1.91	9 (11%)
22	CLA	AD	402	4	65,73,73	1.58	9 (13%)	76,113,113	1.91	11 (14%)
33	BCT	BD	401	21	2,3,3	0.65	0	2,3,3	0.40	0
26	BCR	BC	515	-	41,41,41	1.82	7 (17%)	56,56,56	2.14	19 (33%)
26	BCR	BX	101	-	41,41,41	1.84	8 (19%)	56,56,56	2.26	22 (39%)
28	LHG	BA	412	-	38,38,48	1.95	6 (15%)	41,44,54	1.39	4 (9%)
22	CLA	AB	615	-	65,73,73	1.35	7 (10%)	76,113,113	1.92	12 (15%)
22	CLA	BB	618	-	65,73,73	1.26	7 (10%)	76,113,113	1.89	12 (15%)
22	CLA	AC	506	3	65,73,73	1.40	7 (10%)	76,113,113	1.86	11 (14%)
24	PL9	AJ	101	-	35,35,55	1.39	4 (11%)	44,45,69	1.74	12 (27%)
27	DGD	BA	411	-	57,57,67	1.64	13 (22%)	71,71,81	1.45	8 (11%)
26	BCR	BZ	101	-	41,41,41	1.96	9 (21%)	56,56,56	2.07	19 (33%)
27	DGD	AD	410	-	64,64,67	1.84	16 (25%)	78,78,81	1.37	7 (8%)
26	BCR	AA	409	-	41,41,41	1.64	7 (17%)	56,56,56	2.08	20 (35%)
30	LMG	BA	414	-	51,51,55	0.93	4 (7%)	59,59,63	1.01	4 (6%)
22	CLA	BA	404	-	65,73,73	1.35	8 (12%)	76,113,113	1.94	14 (18%)
34	HEM	AV	201	16	41,50,50	1.90	12 (29%)	45,82,82	2.33	13 (28%)
27	DGD	AA	410	-	57,57,67	1.51	12 (21%)	71,71,81	1.46	9 (12%)
22	CLA	AB	612	-	65,73,73	1.36	7 (10%)	76,113,113	1.79	10 (13%)
30	LMG	BB	623	-	49,49,55	1.09	5 (10%)	57,57,63	1.05	4 (7%)
22	CLA	AB	603	2	65,73,73	1.40	10 (15%)	76,113,113	1.79	11 (14%)
22	CLA	BC	505	3	65,73,73	1.67	11 (16%)	76,113,113	1.91	11 (14%)
22	CLA	AD	404	-	65,73,73	1.45	7 (10%)	76,113,113	1.84	12 (15%)
29	SQD	BA	413	-	50,51,54	2.42	22 (44%)	59,62,65	2.73	19 (32%)
22	CLA	AC	507	-	65,73,73	1.31	7 (10%)	76,113,113	1.88	13 (17%)
22	CLA	AB	605	-	65,73,73	1.44	8 (12%)	76,113,113	1.79	10 (13%)
23	PHO	AA	405	-	51,69,69	0.92	2 (3%)	47,99,99	1.55	12 (25%)
30	LMG	BI	101	-	43,43,55	1.57	8 (18%)	51,51,63	1.08	4 (7%)
28	LHG	BC	521	-	36,36,48	1.08	2 (5%)	39,42,54	1.13	3 (7%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
22	CLA	AC	503	3	65,73,73	1.57	9 (13%)	76,113,113	1.92	8 (10%)
22	CLA	BC	503	3	65,73,73	1.58	8 (12%)	76,113,113	1.88	10 (13%)
30	LMG	BB	624	-	49,49,55	1.06	5 (10%)	57,57,63	1.02	3 (5%)
23	PHO	AD	403	-	51,69,69	1.02	2 (3%)	47,99,99	1.58	9 (19%)
23	PHO	BD	403	-	51,69,69	1.01	2 (3%)	47,99,99	1.58	11 (23%)
27	DGD	AC	517	-	63,63,67	1.07	5 (7%)	77,77,81	1.62	10 (12%)
22	CLA	AA	406	1	65,73,73	1.30	7 (10%)	76,113,113	1.74	9 (11%)
29	SQD	BA	401	-	53,54,54	2.55	28 (52%)	62,65,65	2.71	22 (35%)
27	DGD	AC	516	-	54,54,67	1.24	8 (14%)	68,68,81	1.52	7 (10%)
26	BCR	AJ	102	-	41,41,41	2.04	9 (21%)	56,56,56	3.34	22 (39%)
22	CLA	BC	502	3	65,73,73	1.41	7 (10%)	76,113,113	1.86	10 (13%)
30	LMG	AA	413	-	51,51,55	0.91	3 (5%)	59,59,63	1.00	4 (6%)
30	LMG	AA	416	-	42,42,55	1.52	7 (16%)	50,50,63	0.98	3 (6%)
30	LMG	AE	102	-	44,44,55	1.35	6 (13%)	52,52,63	1.07	5 (9%)
30	LMG	AI	101	-	43,43,55	1.51	8 (18%)	51,51,63	1.06	3 (5%)
22	CLA	BC	506	3	65,73,73	1.36	8 (12%)	76,113,113	1.82	9 (11%)
32	LMT	AM	102	-	36,36,36	1.21	2 (5%)	47,47,47	0.95	2 (4%)
22	CLA	AB	616	-	65,73,73	1.38	10 (15%)	76,113,113	1.86	11 (14%)
22	CLA	BB	610	-	65,73,73	1.46	8 (12%)	76,113,113	1.87	10 (13%)
27	DGD	AH	102	-	59,59,67	1.28	9 (15%)	73,73,81	1.43	7 (9%)
33	BCT	AD	401	21	2,3,3	0.66	0	2,3,3	0.41	0
24	PL9	BD	405	-	55,55,55	0.54	0	68,69,69	1.72	19 (27%)
22	CLA	BB	617	2	65,73,73	1.44	8 (12%)	76,113,113	1.89	13 (17%)
30	LMG	AB	621	-	49,49,55	1.04	5 (10%)	57,57,63	1.02	4 (7%)
22	CLA	BC	513	3	65,73,73	1.58	9 (13%)	76,113,113	1.86	8 (10%)
32	LMT	AD	411	-	32,32,36	1.53	5 (15%)	43,43,47	1.00	2 (4%)
32	LMT	BD	411	-	32,32,36	1.43	4 (12%)	43,43,47	0.96	2 (4%)
26	BCR	BA	410	-	41,41,41	1.71	7 (17%)	56,56,56	2.07	23 (41%)
30	LMG	BC	520	-	45,45,55	1.57	10 (22%)	53,53,63	1.03	4 (7%)
26	BCR	AB	620	-	41,41,41	1.85	8 (19%)	56,56,56	2.05	18 (32%)
22	CLA	BD	402	4	65,73,73	1.57	10 (15%)	76,113,113	1.91	13 (17%)
27	DGD	BH	101	-	59,59,67	1.23	9 (15%)	73,73,81	1.43	6 (8%)
22	CLA	AC	510	-	65,73,73	1.30	9 (13%)	76,113,113	1.74	11 (14%)
30	LMG	BM	102	-	42,42,55	1.66	8 (19%)	50,50,63	1.11	5 (10%)
27	DGD	BC	518	-	67,67,67	1.18	6 (8%)	81,81,81	1.27	4 (4%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
34	HEM	AE	101	5,6	41,50,50	1.95	12 (29%)	45,82,82	2.54	13 (28%)
22	CLA	AC	504	-	65,73,73	1.33	7 (10%)	76,113,113	1.75	11 (14%)
26	BCR	AH	101	-	41,41,41	1.86	8 (19%)	56,56,56	2.25	22 (39%)
22	CLA	AB	608	2	65,73,73	1.38	8 (12%)	76,113,113	1.78	12 (15%)
22	CLA	BA	407	1	65,73,73	1.31	8 (12%)	76,113,113	1.75	11 (14%)
22	CLA	AC	513	3	65,73,73	1.63	9 (13%)	76,113,113	1.85	11 (14%)
29	SQD	BD	409	-	42,43,54	2.66	19 (45%)	51,54,65	2.96	15 (29%)
22	CLA	BB	613	-	65,73,73	1.40	11 (16%)	76,113,113	1.85	13 (17%)
30	LMG	AD	408	-	48,48,55	1.07	3 (6%)	56,56,63	0.99	2 (3%)
26	BCR	AC	515	-	41,41,41	1.69	6 (14%)	56,56,56	2.16	19 (33%)
23	PHO	BA	406	-	51,69,69	0.94	4 (7%)	47,99,99	1.51	9 (19%)
22	CLA	AB	601	-	65,73,73	1.59	9 (13%)	76,113,113	1.90	11 (14%)
29	SQD	AD	409	-	42,43,54	2.69	19 (45%)	51,54,65	2.97	15 (29%)
32	LMT	BM	101	-	36,36,36	1.21	3 (8%)	47,47,47	0.96	2 (4%)
30	LMG	AC	520	-	45,45,55	1.54	9 (20%)	53,53,63	1.01	4 (7%)
30	LMG	AC	519	-	48,48,55	1.26	5 (10%)	56,56,63	0.83	2 (3%)
26	BCR	BC	514	-	41,41,41	1.91	8 (19%)	56,56,56	2.11	20 (35%)
22	CLA	AC	512	-	65,73,73	1.58	9 (13%)	76,113,113	1.90	12 (15%)
26	BCR	AB	617	-	41,41,41	1.69	8 (19%)	56,56,56	1.98	14 (25%)
22	CLA	BC	508	3	65,73,73	1.50	8 (12%)	76,113,113	1.89	12 (15%)
22	CLA	AB	613	-	65,73,73	1.24	7 (10%)	76,113,113	1.81	11 (14%)
29	SQD	BB	601	-	46,47,54	2.57	22 (47%)	55,58,65	2.68	16 (29%)
22	CLA	AA	403	-	65,73,73	1.34	8 (12%)	76,113,113	1.85	15 (19%)
27	DGD	AB	626	-	53,53,67	1.88	17 (32%)	67,67,81	1.58	8 (11%)
24	PL9	AA	407	-	45,45,55	0.96	1 (2%)	56,57,69	1.70	15 (26%)
22	CLA	BC	501	3	65,73,73	1.45	7 (10%)	76,113,113	1.85	11 (14%)
32	LMT	AB	624	-	36,36,36	1.46	8 (22%)	47,47,47	1.23	3 (6%)
22	CLA	BB	608	2	65,73,73	1.35	8 (12%)	76,113,113	1.78	10 (13%)
30	LMG	AB	622	-	49,49,55	1.08	6 (12%)	57,57,63	1.03	3 (5%)
22	CLA	AC	511	3	65,73,73	1.59	7 (10%)	76,113,113	1.93	12 (15%)
26	BCR	BD	406	-	41,41,41	1.92	8 (19%)	56,56,56	2.28	21 (37%)
29	SQD	AF	101	-	44,45,54	2.46	20 (45%)	53,56,65	2.85	19 (35%)
22	CLA	AC	509	-	65,73,73	1.41	8 (12%)	76,113,113	1.81	11 (14%)
30	LMG	BE	102	-	44,44,55	1.36	6 (13%)	52,52,63	1.07	5 (9%)
24	PL9	BA	408	-	45,45,55	1.00	2 (4%)	56,57,69	1.64	16 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
22	CLA	AC	508	3	65,73,73	1.47	9 (13%)	76,113,113	1.94	11 (14%)
22	CLA	BC	507	-	65,73,73	1.34	7 (10%)	76,113,113	1.89	12 (15%)
22	CLA	BC	512	-	65,73,73	1.56	8 (12%)	76,113,113	1.92	11 (14%)
22	CLA	AB	614	2	65,73,73	1.48	11 (16%)	76,113,113	1.92	14 (18%)
22	CLA	BB	604	-	65,73,73	1.67	10 (15%)	76,113,113	1.91	11 (14%)
26	BCR	BK	102	-	41,41,41	1.86	7 (17%)	56,56,56	2.52	25 (44%)
22	CLA	AC	502	3	65,73,73	1.44	9 (13%)	76,113,113	1.80	9 (11%)
26	BCR	AD	406	-	41,41,41	1.83	7 (17%)	56,56,56	2.30	20 (35%)
32	LMT	BB	626	-	36,36,36	1.38	5 (13%)	47,47,47	0.94	1 (2%)
22	CLA	BB	612	2	65,73,73	1.49	7 (10%)	76,113,113	1.79	11 (14%)
30	LMG	BD	408	-	48,48,55	1.15	4 (8%)	56,56,63	0.99	2 (3%)
32	LMT	AB	627	-	36,36,36	1.47	6 (16%)	47,47,47	1.03	3 (6%)
22	CLA	AB	606	2	65,73,73	1.41	6 (9%)	76,113,113	1.79	9 (11%)
29	SQD	AA	415	-	53,54,54	2.50	26 (49%)	62,65,65	2.68	20 (32%)
22	CLA	BB	619	-	65,73,73	1.37	9 (13%)	76,113,113	1.91	10 (13%)
22	CLA	BC	509	-	65,73,73	1.46	10 (15%)	76,113,113	1.86	10 (13%)
30	LMG	AD	407	-	46,46,55	0.97	4 (8%)	54,54,63	0.90	2 (3%)
22	CLA	BB	614	2	65,73,73	1.21	7 (10%)	76,113,113	1.70	9 (11%)
26	BCR	AB	619	-	41,41,41	1.93	8 (19%)	56,56,56	2.08	14 (25%)
26	BCR	BB	621	-	41,41,41	1.86	6 (14%)	56,56,56	2.12	16 (28%)
22	CLA	AB	610	-	65,73,73	1.34	10 (15%)	76,113,113	1.86	12 (15%)
22	CLA	BB	609	2	65,73,73	1.49	8 (12%)	76,113,113	1.83	11 (14%)
27	DGD	BD	410	-	64,64,67	1.78	16 (25%)	78,78,81	1.36	7 (8%)
22	CLA	BC	510	-	65,73,73	1.24	8 (12%)	76,113,113	1.78	9 (11%)
32	LMT	AB	625	-	36,36,36	1.40	7 (19%)	47,47,47	0.96	2 (4%)
22	CLA	AB	607	-	65,73,73	1.42	9 (13%)	76,113,113	1.83	10 (13%)
29	SQD	BF	101	-	44,45,54	2.54	19 (43%)	53,56,65	2.82	18 (33%)
22	CLA	BC	504	-	65,73,73	1.32	8 (12%)	76,113,113	1.78	11 (14%)
32	LMT	BB	625	-	36,36,36	1.57	9 (25%)	47,47,47	1.25	3 (6%)
26	BCR	AZ	101	-	41,41,41	1.85	7 (17%)	56,56,56	2.09	18 (32%)
32	LMT	BT	101	-	36,36,36	1.32	5 (13%)	47,47,47	1.05	4 (8%)
28	LHG	AC	521	-	36,36,48	1.08	2 (5%)	39,42,54	1.12	3 (7%)
26	BCR	AK	102	-	41,41,41	1.85	7 (17%)	56,56,56	2.52	24 (42%)
22	CLA	AC	505	3	65,73,73	1.57	11 (16%)	76,113,113	1.85	9 (11%)

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
22	CLA	AB	609	2	1/1/15/20	10/37/115/115	-
22	CLA	BA	405	-	1/1/15/20	14/37/115/115	-
32	LMT	AI	102	-	-	4/21/61/61	0/2/2/2
27	DGD	AC	518	-	3/3/13/13	21/55/95/95	0/2/2/2
34	HEM	BE	101	5,6	-	2/12/54/54	-
22	CLA	AA	404	-	1/1/15/20	14/37/115/115	-
27	DGD	BB	602	-	3/3/13/13	24/41/81/95	0/2/2/2
22	CLA	AB	611	2	1/1/15/20	14/37/115/115	-
22	CLA	AB	602	2	1/1/15/20	21/37/115/115	-
27	DGD	BC	517	-	3/3/13/13	29/51/91/95	0/2/2/2
22	CLA	BB	606	2	1/1/15/20	11/37/115/115	-
30	LMG	AM	101	-	2/2/8/8	16/37/57/70	0/1/1/1
24	PL9	BJ	101	-	-	10/29/49/73	0/1/1/1
29	SQD	BL	101	-	-	17/42/62/69	0/1/1/1
32	LMT	BB	603	-	-	4/21/61/61	0/2/2/2
22	CLA	BB	607	2	1/1/15/20	9/37/115/115	-
22	CLA	BD	404	-	1/1/15/20	9/37/115/115	-
24	PL9	AD	405	-	-	15/53/73/73	0/1/1/1
26	BCR	AB	618	-	-	3/29/63/63	0/2/2/2
26	BCR	AT	102	-	-	3/29/63/63	0/2/2/2
22	CLA	BB	615	-	1/1/15/20	12/37/115/115	-
28	LHG	AA	411	-	-	15/43/43/53	-
26	BCR	AC	514	-	-	5/29/63/63	0/2/2/2
26	BCR	BB	620	-	-	1/29/63/63	0/2/2/2
34	HEM	BV	201	16	-	6/12/54/54	-
32	LMT	AT	101	-	-	4/21/61/61	0/2/2/2
22	CLA	BC	511	3	1/1/15/20	14/37/115/115	-
22	CLA	AC	501	3	1/1/15/20	13/37/115/115	-
22	CLA	AA	402	1	1/1/15/20	4/37/115/115	-
22	CLA	BB	616	-	1/1/15/20	15/37/115/115	-
26	BCR	BB	622	-	-	2/29/63/63	0/2/2/2
22	CLA	BB	611	2	1/1/15/20	18/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	BA	403	1	1/1/15/20	5/37/115/115	-
30	LMG	BC	519	-	2/2/8/8	24/43/63/70	0/1/1/1
26	BCR	BJ	102	-	-	5/29/63/63	0/2/2/2
30	LMG	AB	623	-	2/2/8/8	17/37/57/70	0/1/1/1
29	SQD	AA	412	-	-	17/46/66/69	0/1/1/1
32	LMT	BI	102	-	-	4/21/61/61	0/2/2/2
27	DGD	BC	516	-	3/3/13/13	18/42/82/95	0/2/2/2
22	CLA	BB	605	2	1/1/15/20	21/37/115/115	-
30	LMG	BD	407	-	2/2/8/8	17/41/61/70	0/1/1/1
22	CLA	AB	604	2	1/1/15/20	9/37/115/115	-
22	CLA	AD	402	4	1/1/15/20	12/37/115/115	-
26	BCR	BC	515	-	-	4/29/63/63	0/2/2/2
26	BCR	BX	101	-	-	2/29/63/63	0/2/2/2
28	LHG	BA	412	-	-	15/43/43/53	-
22	CLA	AB	615	-	1/1/15/20	9/37/115/115	-
22	CLA	BB	618	-	1/1/15/20	9/37/115/115	-
22	CLA	AC	506	3	1/1/15/20	16/37/115/115	-
27	DGD	BA	411	-	3/3/13/13	18/45/85/95	0/2/2/2
24	PL9	AJ	101	-	-	10/29/49/73	0/1/1/1
26	BCR	BZ	101	-	-	3/29/63/63	0/2/2/2
27	DGD	AD	410	-	3/3/13/13	34/52/92/95	0/2/2/2
26	BCR	AA	409	-	-	4/29/63/63	0/2/2/2
30	LMG	BA	414	-	2/2/8/8	28/46/66/70	0/1/1/1
22	CLA	BA	404	-	1/1/15/20	17/37/115/115	-
34	HEM	AV	201	16	-	6/12/54/54	-
27	DGD	AA	410	-	3/3/13/13	18/45/85/95	0/2/2/2
22	CLA	AB	612	-	1/1/15/20	11/37/115/115	-
30	LMG	BB	623	-	2/2/8/8	22/44/64/70	0/1/1/1
22	CLA	AB	603	2	1/1/15/20	11/37/115/115	-
22	CLA	BC	505	3	1/1/15/20	18/37/115/115	-
22	CLA	AD	404	-	1/1/15/20	10/37/115/115	-
29	SQD	BA	413	-	-	18/46/66/69	0/1/1/1
22	CLA	AC	507	-	1/1/15/20	12/37/115/115	-
22	CLA	AB	605	-	1/1/15/20	15/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	PHO	AA	405	-	-	13/37/103/103	0/5/6/6
30	LMG	BI	101	-	2/2/8/8	20/38/58/70	0/1/1/1
28	LHG	BC	521	-	-	16/41/41/53	-
22	CLA	AC	503	3	1/1/15/20	15/37/115/115	-
22	CLA	BC	503	3	1/1/15/20	16/37/115/115	-
30	LMG	BB	624	-	2/2/8/8	17/44/64/70	0/1/1/1
23	PHO	AD	403	-	-	13/37/103/103	0/5/6/6
23	PHO	BD	403	-	-	13/37/103/103	0/5/6/6
27	DGD	AC	517	-	3/3/13/13	29/51/91/95	0/2/2/2
22	CLA	AA	406	1	1/1/15/20	11/37/115/115	-
29	SQD	BA	401	-	-	20/49/69/69	0/1/1/1
27	DGD	AC	516	-	3/3/13/13	17/42/82/95	0/2/2/2
26	BCR	AJ	102	-	-	5/29/63/63	0/2/2/2
22	CLA	BC	502	3	1/1/15/20	12/37/115/115	-
30	LMG	AA	413	-	2/2/8/8	29/46/66/70	0/1/1/1
30	LMG	AA	416	-	2/2/8/8	17/37/57/70	0/1/1/1
30	LMG	AE	102	-	2/2/8/8	19/39/59/70	0/1/1/1
30	LMG	AI	101	-	2/2/8/8	19/38/58/70	0/1/1/1
22	CLA	BC	506	3	1/1/15/20	17/37/115/115	-
32	LMT	AM	102	-	-	1/21/61/61	0/2/2/2
22	CLA	AB	616	-	1/1/15/20	16/37/115/115	-
22	CLA	BB	610	-	1/1/15/20	15/37/115/115	-
27	DGD	AH	102	-	3/3/13/13	18/47/87/95	0/2/2/2
24	PL9	BD	405	-	-	17/53/73/73	0/1/1/1
22	CLA	BB	617	2	1/1/15/20	18/37/115/115	-
30	LMG	AB	621	-	2/2/8/8	22/44/64/70	0/1/1/1
22	CLA	BC	513	3	1/1/15/20	20/37/115/115	-
32	LMT	AD	411	-	-	0/17/57/61	0/2/2/2
32	LMT	BD	411	-	-	0/17/57/61	0/2/2/2
26	BCR	BA	410	-	-	4/29/63/63	0/2/2/2
30	LMG	BC	520	-	2/2/8/8	18/40/60/70	0/1/1/1
26	BCR	AB	620	-	-	2/29/63/63	0/2/2/2
22	CLA	BD	402	4	1/1/15/20	11/37/115/115	-
27	DGD	BH	101	-	3/3/13/13	18/47/87/95	0/2/2/2
22	CLA	AC	510	-	1/1/15/20	12/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	LMG	BM	102	-	2/2/8/8	16/37/57/70	0/1/1/1
27	DGD	BC	518	-	3/3/13/13	21/55/95/95	0/2/2/2
34	HEM	AE	101	5,6	-	2/12/54/54	-
22	CLA	AC	504	-	1/1/15/20	10/37/115/115	-
26	BCR	AH	101	-	-	2/29/63/63	0/2/2/2
22	CLA	AB	608	2	1/1/15/20	18/37/115/115	-
22	CLA	BA	407	1	1/1/15/20	10/37/115/115	-
22	CLA	AC	513	3	1/1/15/20	20/37/115/115	-
29	SQD	BD	409	-	-	12/38/58/69	0/1/1/1
22	CLA	BB	613	-	1/1/15/20	16/37/115/115	-
30	LMG	AD	408	-	2/2/8/8	25/43/63/70	0/1/1/1
26	BCR	AC	515	-	-	4/29/63/63	0/2/2/2
23	PHO	BA	406	-	-	13/37/103/103	0/5/6/6
22	CLA	AB	601	-	1/1/15/20	20/37/115/115	-
29	SQD	AD	409	-	-	12/38/58/69	0/1/1/1
32	LMT	BM	101	-	-	1/21/61/61	0/2/2/2
30	LMG	AC	520	-	2/2/8/8	19/40/60/70	0/1/1/1
30	LMG	AC	519	-	2/2/8/8	24/43/63/70	0/1/1/1
26	BCR	BC	514	-	-	5/29/63/63	0/2/2/2
22	CLA	AC	512	-	1/1/15/20	21/37/115/115	-
26	BCR	AB	617	-	-	1/29/63/63	0/2/2/2
22	CLA	BC	508	3	1/1/15/20	12/37/115/115	-
22	CLA	AB	613	-	1/1/15/20	15/37/115/115	-
29	SQD	BB	601	-	-	17/42/62/69	0/1/1/1
22	CLA	AA	403	-	1/1/15/20	17/37/115/115	-
27	DGD	AB	626	-	3/3/13/13	24/41/81/95	0/2/2/2
24	PL9	AA	407	-	-	16/41/61/73	0/1/1/1
22	CLA	BC	501	3	1/1/15/20	12/37/115/115	-
32	LMT	AB	624	-	-	4/21/61/61	0/2/2/2
22	CLA	BB	608	2	1/1/15/20	17/37/115/115	-
30	LMG	AB	622	-	2/2/8/8	19/44/64/70	0/1/1/1
22	CLA	AC	511	3	1/1/15/20	14/37/115/115	-
26	BCR	BD	406	-	-	3/29/63/63	0/2/2/2
29	SQD	AF	101	-	-	14/40/60/69	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	AC	509	-	1/1/15/20	11/37/115/115	-
30	LMG	BE	102	-	2/2/8/8	19/39/59/70	0/1/1/1
24	PL9	BA	408	-	-	16/41/61/73	0/1/1/1
22	CLA	AC	508	3	1/1/15/20	12/37/115/115	-
22	CLA	BC	507	-	1/1/15/20	12/37/115/115	-
22	CLA	BC	512	-	1/1/15/20	21/37/115/115	-
22	CLA	AB	614	2	1/1/15/20	19/37/115/115	-
22	CLA	BB	604	-	1/1/15/20	20/37/115/115	-
26	BCR	BK	102	-	-	4/29/63/63	0/2/2/2
22	CLA	AC	502	3	1/1/15/20	11/37/115/115	-
26	BCR	AD	406	-	-	3/29/63/63	0/2/2/2
32	LMT	BB	626	-	-	2/21/61/61	0/2/2/2
22	CLA	BB	612	2	1/1/15/20	10/37/115/115	-
30	LMG	BD	408	-	2/2/8/8	25/43/63/70	0/1/1/1
32	LMT	AB	627	-	-	4/21/61/61	0/2/2/2
22	CLA	AB	606	2	1/1/15/20	14/37/115/115	-
29	SQD	AA	415	-	-	21/49/69/69	0/1/1/1
22	CLA	BB	619	-	1/1/15/20	15/37/115/115	-
22	CLA	BC	509	-	1/1/15/20	11/37/115/115	-
30	LMG	AD	407	-	2/2/8/8	17/41/61/70	0/1/1/1
22	CLA	BB	614	2	1/1/15/20	14/37/115/115	-
26	BCR	AB	619	-	-	0/29/63/63	0/2/2/2
26	BCR	BB	621	-	-	0/29/63/63	0/2/2/2
22	CLA	AB	610	-	1/1/15/20	16/37/115/115	-
22	CLA	BB	609	2	1/1/15/20	14/37/115/115	-
27	DGD	BD	410	-	3/3/13/13	33/52/92/95	0/2/2/2
22	CLA	BC	510	-	1/1/15/20	12/37/115/115	-
32	LMT	AB	625	-	-	2/21/61/61	0/2/2/2
22	CLA	AB	607	-	1/1/15/20	13/37/115/115	-
29	SQD	BF	101	-	-	14/40/60/69	0/1/1/1
22	CLA	BC	504	-	1/1/15/20	10/37/115/115	-
32	LMT	BB	625	-	-	4/21/61/61	0/2/2/2
26	BCR	AZ	101	-	-	3/29/63/63	0/2/2/2
32	LMT	BT	101	-	-	4/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	LHG	AC	521	-	-	16/41/41/53	-
26	BCR	AK	102	-	-	4/29/63/63	0/2/2/2
22	CLA	AC	505	3	1/1/15/20	18/37/115/115	-

All (1419) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BL	101	SQD	C4-C3	8.57	1.74	1.52
22	BC	505	CLA	MG-NA	8.49	2.26	2.06
28	AA	411	LHG	P-O5	8.17	1.79	1.50
29	BB	601	SQD	C4-C3	8.03	1.72	1.52
29	AA	412	SQD	C4-C3	7.97	1.72	1.52
22	BC	511	CLA	MG-NA	7.96	2.25	2.06
29	BA	413	SQD	C4-C3	7.95	1.72	1.52
22	AC	511	CLA	MG-NA	7.93	2.25	2.06
29	BA	401	SQD	C4-C3	7.92	1.72	1.52
28	BA	412	LHG	P-O5	7.86	1.78	1.50
29	AA	415	SQD	C4-C3	7.83	1.72	1.52
29	AD	409	SQD	C4-C3	7.74	1.72	1.52
29	BD	409	SQD	C4-C3	7.48	1.71	1.52
22	AC	503	CLA	MG-NA	7.40	2.23	2.06
22	AC	513	CLA	MG-NA	7.37	2.23	2.06
22	BD	402	CLA	MG-NA	7.30	2.23	2.06
22	BB	609	CLA	MG-NA	7.30	2.23	2.06
22	AD	402	CLA	MG-NA	7.29	2.23	2.06
22	BC	503	CLA	MG-NA	7.25	2.23	2.06
29	BF	101	SQD	C4-C3	7.19	1.70	1.52
22	AC	505	CLA	MG-NA	7.19	2.23	2.06
22	BB	607	CLA	MG-NA	7.11	2.23	2.06
29	AF	101	SQD	C4-C3	7.05	1.70	1.52
22	BC	513	CLA	MG-NA	7.04	2.23	2.06
22	BB	604	CLA	MG-NA	7.00	2.22	2.06
22	AB	604	CLA	MG-NA	6.75	2.22	2.06
22	AC	508	CLA	MG-NA	6.72	2.22	2.06
22	BC	512	CLA	MG-NA	6.67	2.22	2.06
22	BB	612	CLA	MG-NA	6.50	2.21	2.06
22	AB	606	CLA	MG-NA	6.41	2.21	2.06
26	BC	514	BCR	C1-C6	6.41	1.62	1.53
22	AC	512	CLA	MG-NA	6.25	2.21	2.06
22	AB	601	CLA	MG-NA	6.24	2.21	2.06
22	BC	508	CLA	MG-NA	6.20	2.21	2.06
27	BD	410	DGD	O3G-C1D	6.18	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BC	501	CLA	MG-NA	6.15	2.20	2.06
26	BZ	101	BCR	C1-C6	6.08	1.62	1.53
22	AD	404	CLA	MG-NA	6.00	2.20	2.06
22	AB	609	CLA	MG-NA	5.94	2.20	2.06
26	BJ	102	BCR	C30-C25	5.86	1.61	1.53
22	AC	501	CLA	MG-NA	5.85	2.20	2.06
26	BC	514	BCR	C30-C25	5.78	1.61	1.53
27	AD	410	DGD	O3G-C1D	5.78	1.50	1.40
22	AB	614	CLA	MG-NA	5.76	2.20	2.06
26	BB	622	BCR	C30-C25	5.76	1.61	1.53
26	AB	619	BCR	C30-C25	5.72	1.61	1.53
22	AA	402	CLA	MG-NA	5.68	2.19	2.06
22	AC	506	CLA	MG-NA	5.68	2.19	2.06
26	BX	101	BCR	C26-C25	5.65	1.44	1.34
22	BD	404	CLA	MG-NA	5.56	2.19	2.06
22	BC	509	CLA	MG-NA	5.55	2.19	2.06
26	BZ	101	BCR	C30-C25	5.55	1.61	1.53
26	AC	514	BCR	C1-C6	5.52	1.61	1.53
22	BC	502	CLA	MG-NA	5.51	2.19	2.06
26	AK	102	BCR	C30-C25	5.50	1.61	1.53
22	AB	605	CLA	MG-NA	5.50	2.19	2.06
26	BK	102	BCR	C30-C25	5.48	1.61	1.53
22	BB	615	CLA	MG-NA	5.46	2.19	2.06
26	AJ	102	BCR	C5-C6	5.46	1.43	1.34
26	BB	621	BCR	C30-C25	5.46	1.61	1.53
22	AB	601	CLA	C4B-NB	5.43	1.40	1.35
26	AZ	101	BCR	C1-C6	5.41	1.61	1.53
22	BA	403	CLA	MG-NA	5.41	2.19	2.06
26	AH	101	BCR	C26-C25	5.35	1.43	1.34
22	AC	502	CLA	MG-NA	5.35	2.19	2.06
26	AB	620	BCR	C30-C25	5.31	1.61	1.53
22	BB	617	CLA	MG-NA	5.31	2.18	2.06
22	AB	607	CLA	MG-NA	5.30	2.18	2.06
22	AB	603	CLA	MG-NA	5.29	2.18	2.06
26	BC	515	BCR	C1-C6	5.26	1.61	1.53
22	BB	604	CLA	C4B-NB	5.24	1.39	1.35
26	AC	514	BCR	C30-C25	5.22	1.60	1.53
26	BJ	102	BCR	C5-C6	5.21	1.43	1.34
26	AB	619	BCR	C1-C6	5.21	1.60	1.53
26	AB	620	BCR	C1-C6	5.20	1.60	1.53
22	AC	512	CLA	C4B-NB	5.19	1.39	1.35
26	AZ	101	BCR	C30-C25	5.12	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BD	406	BCR	C26-C25	5.11	1.43	1.34
22	BB	610	CLA	MG-NA	5.10	2.18	2.06
22	BB	608	CLA	MG-NA	5.07	2.18	2.06
26	BJ	102	BCR	C26-C25	5.06	1.43	1.34
26	AJ	102	BCR	C30-C25	5.02	1.60	1.53
29	AD	409	SQD	C1-C2	5.02	1.66	1.52
26	BD	406	BCR	C1-C6	4.97	1.60	1.53
29	BD	409	SQD	O5-C5	4.96	1.56	1.44
26	AK	102	BCR	C5-C6	4.96	1.43	1.34
29	BD	409	SQD	O7-S	4.96	1.59	1.45
28	BA	412	LHG	P-O3	4.93	1.79	1.59
22	AB	610	CLA	MG-NA	4.93	2.18	2.06
27	BA	411	DGD	O5D-C1E	4.93	1.48	1.40
26	AA	409	BCR	C1-C6	4.90	1.60	1.53
22	BC	507	CLA	MG-NA	4.89	2.17	2.06
26	AD	406	BCR	C30-C25	4.88	1.60	1.53
34	BE	101	HEM	CAA-C2A	4.88	1.59	1.52
26	BX	101	BCR	C30-C25	4.86	1.60	1.53
29	BB	601	SQD	O7-S	4.84	1.59	1.45
22	AC	509	CLA	MG-NA	4.84	2.17	2.06
22	BA	405	CLA	MG-NA	4.83	2.17	2.06
26	BA	410	BCR	C1-C6	4.81	1.60	1.53
26	BK	102	BCR	C5-C6	4.80	1.42	1.34
26	BA	410	BCR	C30-C25	4.79	1.60	1.53
26	BB	622	BCR	C1-C6	4.79	1.60	1.53
29	AD	409	SQD	O5-C5	4.79	1.56	1.44
22	BB	606	CLA	MG-NA	4.78	2.17	2.06
26	AJ	102	BCR	C1-C6	4.78	1.60	1.53
30	AM	101	LMG	O1-C1	4.77	1.48	1.40
28	AA	411	LHG	P-O3	4.75	1.78	1.59
30	BM	102	LMG	O1-C1	4.74	1.48	1.40
26	BJ	102	BCR	C1-C6	4.73	1.60	1.53
22	AA	406	CLA	MG-NA	4.73	2.17	2.06
22	AC	507	CLA	MG-NA	4.71	2.17	2.06
22	AB	615	CLA	MG-NA	4.71	2.17	2.06
29	AD	409	SQD	O48-C23	4.70	1.47	1.33
29	BL	101	SQD	O7-S	4.69	1.58	1.45
29	BA	413	SQD	O7-S	4.68	1.58	1.45
26	BB	621	BCR	C1-C6	4.67	1.60	1.53
26	AB	618	BCR	C30-C25	4.67	1.60	1.53
26	AH	101	BCR	C30-C25	4.67	1.60	1.53
29	BF	101	SQD	O5-C5	4.66	1.55	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BC	515	BCR	C30-C25	4.65	1.60	1.53
29	AD	409	SQD	O7-S	4.62	1.58	1.45
22	AB	612	CLA	MG-NA	4.61	2.17	2.06
26	AC	515	BCR	C30-C25	4.61	1.60	1.53
22	AB	616	CLA	MG-NA	4.60	2.17	2.06
29	BA	401	SQD	O47-C7	4.60	1.47	1.34
29	BL	101	SQD	O5-C5	4.60	1.55	1.44
22	BB	611	CLA	MG-NA	4.60	2.17	2.06
26	AD	406	BCR	C26-C25	4.59	1.42	1.34
26	AH	101	BCR	C1-C6	4.59	1.60	1.53
22	BC	512	CLA	C4B-NB	4.58	1.39	1.35
29	BF	101	SQD	O48-C23	4.58	1.46	1.33
34	AE	101	HEM	CAA-C2A	4.58	1.58	1.52
22	BB	613	CLA	MG-NA	4.57	2.17	2.06
26	AC	515	BCR	C1-C6	4.57	1.60	1.53
29	BF	101	SQD	O47-C7	4.56	1.47	1.34
29	AF	101	SQD	O47-C7	4.56	1.47	1.34
26	AT	102	BCR	C1-C6	4.55	1.60	1.53
22	AA	404	CLA	MG-NA	4.53	2.17	2.06
26	BD	406	BCR	C30-C25	4.52	1.60	1.53
29	BD	409	SQD	O47-C7	4.50	1.47	1.34
29	BD	409	SQD	C1-C2	4.49	1.65	1.52
29	BB	601	SQD	O5-C5	4.49	1.55	1.44
22	BB	619	CLA	MG-NA	4.47	2.16	2.06
22	BA	404	CLA	MG-NA	4.44	2.16	2.06
29	BA	413	SQD	O47-C7	4.43	1.46	1.34
22	BC	503	CLA	C4B-NB	4.41	1.39	1.35
22	AC	504	CLA	C4B-NB	4.40	1.39	1.35
29	AF	101	SQD	O48-C23	4.39	1.46	1.33
26	AJ	102	BCR	C26-C25	4.39	1.42	1.34
22	BC	508	CLA	C4B-NB	4.38	1.39	1.35
26	BB	620	BCR	C30-C25	4.38	1.59	1.53
34	BV	201	HEM	C1A-NA	4.37	1.45	1.36
29	BA	401	SQD	C1-C2	4.36	1.65	1.52
34	AV	201	HEM	C1A-NA	4.35	1.45	1.36
29	BA	401	SQD	O7-S	4.34	1.57	1.45
22	BC	506	CLA	MG-NA	4.34	2.16	2.06
29	BL	101	SQD	C1-C2	4.34	1.65	1.52
22	BA	404	CLA	CAA-C2A	4.33	1.62	1.54
29	BA	401	SQD	O5-C5	4.32	1.54	1.44
27	AB	626	DGD	C4E-C3E	4.32	1.63	1.52
26	AB	619	BCR	C26-C25	4.32	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	AK	102	BCR	C1-C6	4.32	1.59	1.53
22	AB	613	CLA	MG-NA	4.31	2.16	2.06
26	AA	409	BCR	C30-C25	4.31	1.59	1.53
29	AF	101	SQD	O7-S	4.30	1.57	1.45
26	AB	617	BCR	C30-C25	4.29	1.59	1.53
29	AA	412	SQD	O47-C7	4.29	1.46	1.34
28	AC	521	LHG	O8-C23	4.29	1.45	1.33
26	AB	618	BCR	C1-C6	4.29	1.59	1.53
27	AD	410	DGD	O5D-C1E	4.29	1.47	1.40
22	AB	615	CLA	C4B-NB	4.27	1.39	1.35
28	BC	521	LHG	O8-C23	4.26	1.45	1.33
26	BX	101	BCR	C1-C6	4.26	1.59	1.53
26	BK	102	BCR	C1-C6	4.26	1.59	1.53
29	BF	101	SQD	O7-S	4.24	1.57	1.45
26	BB	621	BCR	C26-C25	4.24	1.41	1.34
29	AA	415	SQD	O7-S	4.21	1.57	1.45
29	AD	409	SQD	O6-C1	4.20	1.47	1.40
22	AC	511	CLA	C4B-NB	4.18	1.38	1.35
22	BB	604	CLA	C1B-NB	4.17	1.38	1.35
29	AD	409	SQD	O47-C7	4.16	1.46	1.34
27	AA	410	DGD	O5D-C1E	4.15	1.47	1.40
22	AB	608	CLA	MG-NA	4.15	2.16	2.06
22	BA	407	CLA	MG-NA	4.15	2.16	2.06
29	AF	101	SQD	O5-C5	4.14	1.54	1.44
29	AA	415	SQD	O47-C7	4.14	1.46	1.34
22	AC	510	CLA	C4B-NB	4.13	1.38	1.35
29	BB	601	SQD	C1-C2	4.13	1.64	1.52
28	AC	521	LHG	O7-C7	4.12	1.45	1.34
27	BB	602	DGD	C4E-C3E	4.11	1.62	1.52
22	AB	605	CLA	C4B-NB	4.11	1.38	1.35
26	AB	618	BCR	C5-C6	4.10	1.41	1.34
28	BC	521	LHG	O7-C7	4.10	1.45	1.34
29	BA	401	SQD	O48-C23	4.10	1.45	1.33
29	BD	409	SQD	O48-C23	4.10	1.45	1.33
22	BB	618	CLA	MG-NA	4.09	2.16	2.06
22	AC	503	CLA	CAA-C2A	4.06	1.61	1.54
34	BE	101	HEM	C1A-NA	4.05	1.44	1.36
29	AA	415	SQD	O5-C5	4.04	1.54	1.44
26	BJ	102	BCR	C29-C30	4.04	1.63	1.54
26	AD	406	BCR	C1-C6	4.04	1.59	1.53
32	AI	102	LMT	O1'-C1'	4.03	1.47	1.40
22	AC	502	CLA	C4B-NB	4.03	1.38	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	BD	408	LMG	O1-C1	4.02	1.47	1.40
26	AB	617	BCR	C26-C25	4.00	1.41	1.34
34	BE	101	HEM	C4D-ND	-4.00	1.33	1.40
30	BI	101	LMG	O6-C1	4.00	1.52	1.41
30	AC	520	LMG	C4-C3	3.99	1.62	1.52
22	BC	510	CLA	MG-NA	3.99	2.15	2.06
29	BL	101	SQD	O47-C7	3.99	1.45	1.34
32	BI	102	LMT	O1'-C1'	3.99	1.47	1.40
26	AJ	102	BCR	C29-C30	3.97	1.63	1.54
30	AM	101	LMG	O7-C10	3.97	1.45	1.34
29	BA	413	SQD	C1-C2	3.97	1.63	1.52
22	AB	612	CLA	C4B-NB	3.95	1.38	1.35
22	BC	503	CLA	CAA-C2A	3.95	1.61	1.54
27	AD	410	DGD	O6D-C5D	3.95	1.53	1.44
26	AH	101	BCR	C29-C30	3.94	1.63	1.54
26	AZ	101	BCR	C26-C25	3.94	1.41	1.34
30	BI	101	LMG	C4-C3	3.94	1.62	1.52
22	BB	610	CLA	CAA-C2A	3.94	1.61	1.54
22	AB	609	CLA	C4B-NB	3.94	1.38	1.35
26	BC	515	BCR	C5-C6	3.93	1.41	1.34
22	BC	509	CLA	C4B-NB	3.92	1.38	1.35
26	AB	617	BCR	C1-C6	3.92	1.59	1.53
29	AA	415	SQD	C1-C2	3.92	1.63	1.52
34	AE	101	HEM	C4D-ND	-3.91	1.33	1.40
22	AC	513	CLA	C4B-NB	3.90	1.38	1.35
22	AB	602	CLA	MG-NA	3.90	2.15	2.06
26	BD	406	BCR	C29-C30	3.89	1.63	1.54
29	BF	101	SQD	C1-C2	3.89	1.63	1.52
26	AD	406	BCR	C5-C6	3.89	1.41	1.34
27	AH	102	DGD	O5D-C1E	3.89	1.46	1.40
22	AB	608	CLA	CAA-C2A	3.88	1.61	1.54
27	BB	602	DGD	C4E-C5E	3.88	1.61	1.53
29	AA	412	SQD	C1-C2	3.86	1.63	1.52
28	AA	411	LHG	P-O6	3.86	1.74	1.59
22	BB	611	CLA	C4B-NB	3.85	1.38	1.35
27	BC	516	DGD	O5D-C1E	3.84	1.46	1.40
29	BL	101	SQD	O48-C23	3.84	1.44	1.33
22	AC	513	CLA	CAA-C2A	3.84	1.61	1.54
32	BB	625	LMT	O5'-C1'	3.83	1.51	1.41
27	AC	516	DGD	O5D-C1E	3.83	1.46	1.40
34	AE	101	HEM	C1A-NA	3.82	1.44	1.36
32	AM	102	LMT	O1'-C1'	3.82	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BZ	101	BCR	C26-C25	3.82	1.41	1.34
30	BM	102	LMG	O7-C10	3.80	1.45	1.34
29	BB	601	SQD	O47-C7	3.80	1.45	1.34
29	AA	412	SQD	O7-S	3.79	1.56	1.45
30	AB	623	LMG	O6-C1	3.78	1.51	1.41
26	AD	406	BCR	C29-C30	3.77	1.62	1.54
32	AD	411	LMT	O1'-C1'	3.77	1.46	1.40
22	AA	403	CLA	MG-NA	3.76	2.15	2.06
22	BB	612	CLA	C4B-NB	3.75	1.38	1.35
23	BD	403	PHO	C3A-C2A	-3.75	1.51	1.54
34	BE	101	HEM	CBD-CAD	3.74	1.63	1.52
26	BZ	101	BCR	C2-C1	3.74	1.62	1.54
29	BB	601	SQD	O48-C23	3.74	1.44	1.33
29	BA	413	SQD	O5-C5	3.73	1.53	1.44
34	BV	201	HEM	CAA-C2A	3.73	1.57	1.52
26	AB	620	BCR	C5-C6	3.73	1.40	1.34
22	BB	611	CLA	CAA-C2A	3.72	1.61	1.54
27	BA	411	DGD	C4D-C5D	3.72	1.60	1.53
34	BV	201	HEM	CBC-CAC	3.72	1.54	1.29
22	BB	607	CLA	C4B-NB	3.72	1.38	1.35
34	AV	201	HEM	CBC-CAC	3.72	1.54	1.29
27	AD	410	DGD	O6D-C1D	3.71	1.51	1.41
28	AA	411	LHG	O7-C7	3.71	1.44	1.34
26	AT	102	BCR	C5-C6	3.71	1.40	1.34
26	AT	102	BCR	C30-C25	3.70	1.58	1.53
22	BC	512	CLA	C1B-NB	3.70	1.38	1.35
29	BD	409	SQD	O6-C1	3.70	1.46	1.40
27	AD	410	DGD	O6E-C1E	3.70	1.51	1.41
22	AC	512	CLA	C1B-NB	3.70	1.38	1.35
22	AC	509	CLA	C4B-NB	3.69	1.38	1.35
30	AI	101	LMG	O6-C1	3.69	1.51	1.41
32	BD	411	LMT	O1'-C1'	3.69	1.46	1.40
22	AC	510	CLA	MG-NA	3.68	2.15	2.06
30	AD	408	LMG	O1-C1	3.68	1.46	1.40
26	BB	620	BCR	C1-C6	3.68	1.58	1.53
32	AB	624	LMT	O5'-C1'	3.68	1.51	1.41
22	BB	618	CLA	C4B-NB	3.67	1.38	1.35
27	AB	626	DGD	C4D-C5D	3.67	1.60	1.53
26	AB	619	BCR	C29-C30	3.67	1.62	1.54
22	BC	504	CLA	C4B-NB	3.66	1.38	1.35
27	AB	626	DGD	O5D-C1E	3.66	1.46	1.40
22	AC	501	CLA	CAA-C2A	3.66	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	BM	102	LMG	O6-C1	3.66	1.51	1.41
22	BB	608	CLA	C4B-NB	3.66	1.38	1.35
22	BC	501	CLA	CAA-C2A	3.65	1.60	1.54
34	AV	201	HEM	CAA-C2A	3.65	1.57	1.52
29	BL	101	SQD	O8-S	3.65	1.60	1.47
30	BC	520	LMG	C4-C3	3.64	1.61	1.52
26	BX	101	BCR	C29-C30	3.63	1.62	1.54
26	AB	619	BCR	C5-C6	3.63	1.40	1.34
29	AA	412	SQD	O48-C23	3.63	1.44	1.33
22	BC	505	CLA	C4B-NB	3.63	1.38	1.35
27	BH	101	DGD	O5D-C1E	3.63	1.46	1.40
26	AZ	101	BCR	C29-C30	3.63	1.62	1.54
34	BE	101	HEM	CBC-CAC	3.62	1.53	1.29
22	AA	403	CLA	C4B-NB	3.62	1.38	1.35
26	BZ	101	BCR	C29-C30	3.62	1.62	1.54
30	AE	102	LMG	O6-C1	3.62	1.51	1.41
22	BC	513	CLA	CAA-C2A	3.60	1.60	1.54
22	AB	604	CLA	C4B-NB	3.60	1.38	1.35
27	AB	626	DGD	O6D-C5D	3.59	1.53	1.44
22	BC	502	CLA	CAA-C2A	3.59	1.60	1.54
30	AA	416	LMG	O6-C1	3.59	1.51	1.41
30	AI	101	LMG	C4-C3	3.59	1.61	1.52
29	AA	415	SQD	O6-C1	3.59	1.46	1.40
30	BC	520	LMG	C4-C5	3.58	1.60	1.53
27	BD	410	DGD	O6D-C1D	3.57	1.50	1.41
28	BA	412	LHG	P-O6	3.57	1.73	1.59
22	AC	505	CLA	CHC-C1C	3.57	1.44	1.35
29	BF	101	SQD	O6-C1	3.57	1.46	1.40
26	BB	621	BCR	C29-C30	3.57	1.62	1.54
27	BB	602	DGD	O6E-C1E	3.56	1.50	1.41
26	AB	620	BCR	C29-C30	3.56	1.62	1.54
26	BD	406	BCR	C5-C6	3.56	1.40	1.34
22	AA	403	CLA	CAA-C2A	3.56	1.60	1.54
22	AD	404	CLA	CAA-C2A	3.55	1.60	1.54
32	BM	101	LMT	O1'-C1'	3.55	1.46	1.40
22	BB	605	CLA	MG-NA	3.55	2.14	2.06
22	BB	605	CLA	C4B-NB	3.55	1.38	1.35
26	BB	622	BCR	C29-C30	3.54	1.62	1.54
29	AD	409	SQD	O3-C3	3.54	1.51	1.43
22	AC	503	CLA	C4B-NB	3.54	1.38	1.35
29	AF	101	SQD	O6-C1	3.54	1.46	1.40
26	BC	515	BCR	C2-C1	3.54	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BC	511	CLA	CAA-C2A	3.54	1.60	1.54
26	BX	101	BCR	C2-C1	3.53	1.62	1.54
30	AC	520	LMG	O6-C1	3.52	1.50	1.41
26	AA	409	BCR	C2-C1	3.52	1.62	1.54
26	AC	515	BCR	C5-C6	3.52	1.40	1.34
30	AM	101	LMG	O6-C1	3.52	1.50	1.41
29	AA	415	SQD	O48-C23	3.51	1.43	1.33
26	BC	514	BCR	C26-C25	3.51	1.40	1.34
22	BC	510	CLA	C4B-NB	3.51	1.38	1.35
30	BC	520	LMG	O6-C1	3.51	1.50	1.41
23	AD	403	PHO	C3A-C2A	-3.51	1.51	1.54
22	BC	513	CLA	C4B-NB	3.50	1.38	1.35
22	AB	602	CLA	C4B-NB	3.50	1.38	1.35
22	BB	615	CLA	C4B-NB	3.50	1.38	1.35
27	BC	518	DGD	O5D-C1E	3.50	1.46	1.40
22	AB	616	CLA	C4B-NB	3.50	1.38	1.35
26	BB	621	BCR	C5-C6	3.50	1.40	1.34
27	BB	602	DGD	O3G-C1D	3.50	1.46	1.40
27	BD	410	DGD	O6D-C5D	3.50	1.52	1.44
22	AA	404	CLA	CAA-C2A	3.50	1.60	1.54
34	AE	101	HEM	CBC-CAC	3.49	1.52	1.29
27	BC	518	DGD	O3G-C1D	3.49	1.46	1.40
26	AB	617	BCR	C5-C6	3.49	1.40	1.34
22	AC	508	CLA	CHC-C1C	3.49	1.43	1.35
22	BC	504	CLA	MG-NA	3.49	2.14	2.06
22	BB	617	CLA	CHC-C1C	3.48	1.43	1.35
30	BD	408	LMG	O6-C1	3.47	1.50	1.41
26	AB	618	BCR	C2-C1	3.47	1.62	1.54
22	AD	402	CLA	C4B-NB	3.47	1.38	1.35
30	AB	623	LMG	C4-C5	3.47	1.60	1.53
26	AB	620	BCR	C2-C1	3.47	1.62	1.54
30	BM	102	LMG	O6-C5	3.46	1.52	1.44
22	BD	404	CLA	C4B-NB	3.46	1.38	1.35
29	BB	601	SQD	O8-S	3.46	1.59	1.47
26	BB	622	BCR	C5-C6	3.46	1.40	1.34
22	AC	505	CLA	C4B-NB	3.45	1.38	1.35
22	AB	614	CLA	CAA-C2A	3.45	1.60	1.54
22	AB	606	CLA	C4B-NB	3.45	1.38	1.35
26	AK	102	BCR	C29-C30	3.45	1.62	1.54
34	AV	201	HEM	CHA-C4D	3.44	1.43	1.35
29	AD	409	SQD	O8-S	3.43	1.59	1.47
22	AC	508	CLA	C4B-NB	3.43	1.38	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BC	514	BCR	C29-C30	3.43	1.62	1.54
29	AF	101	SQD	C1-C2	3.43	1.62	1.52
26	AT	102	BCR	C2-C1	3.43	1.62	1.54
26	BC	514	BCR	C2-C1	3.43	1.62	1.54
26	BB	622	BCR	C2-C1	3.42	1.62	1.54
27	BC	517	DGD	O6D-C1D	3.42	1.50	1.41
22	BB	613	CLA	C4B-NB	3.42	1.38	1.35
30	AC	519	LMG	O1-C1	3.42	1.46	1.40
22	AB	614	CLA	C4B-NB	3.41	1.38	1.35
30	BI	101	LMG	O6-C5	3.41	1.52	1.44
22	BB	614	CLA	C4B-NB	3.41	1.38	1.35
26	AC	514	BCR	C26-C25	3.40	1.40	1.34
22	BB	611	CLA	C1D-ND	-3.40	1.33	1.37
29	BA	401	SQD	O8-S	3.39	1.59	1.47
29	BD	409	SQD	O8-S	3.39	1.59	1.47
28	BA	412	LHG	O7-C7	3.39	1.43	1.34
27	BB	602	DGD	C4D-C5D	3.39	1.60	1.53
22	BC	505	CLA	CHC-C1C	3.39	1.43	1.35
27	BD	410	DGD	O5D-C1E	3.39	1.46	1.40
22	BB	607	CLA	CAA-C2A	3.39	1.60	1.54
22	BB	617	CLA	C4B-NB	3.38	1.38	1.35
22	AB	609	CLA	C1B-NB	3.38	1.38	1.35
27	AB	626	DGD	O3G-C1D	3.37	1.46	1.40
22	AB	601	CLA	C1B-NB	3.37	1.38	1.35
29	BD	409	SQD	O3-C3	3.37	1.50	1.43
22	AC	504	CLA	CAA-C2A	3.36	1.60	1.54
26	BK	102	BCR	C29-C30	3.36	1.61	1.54
26	BD	406	BCR	C2-C1	3.35	1.61	1.54
29	BA	413	SQD	O48-C23	3.35	1.43	1.33
26	AB	617	BCR	C29-C30	3.35	1.61	1.54
22	BA	403	CLA	CHC-C1C	3.35	1.43	1.35
22	BC	505	CLA	CAA-C2A	3.35	1.60	1.54
27	BB	602	DGD	O5D-C1E	3.35	1.45	1.40
26	BA	410	BCR	C5-C6	3.34	1.40	1.34
30	BC	519	LMG	O1-C1	3.34	1.45	1.40
22	AB	604	CLA	CAA-C2A	3.34	1.60	1.54
27	BA	411	DGD	O6D-C1D	3.34	1.50	1.41
24	AJ	101	PL9	C6-C1	3.34	1.54	1.48
30	AC	520	LMG	O6-C5	3.33	1.52	1.44
22	BA	403	CLA	C4B-NB	3.33	1.38	1.35
24	BJ	101	PL9	C6-C1	3.33	1.54	1.48
26	BC	515	BCR	C26-C25	3.33	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AA	415	SQD	O8-S	3.32	1.59	1.47
29	AA	412	SQD	O5-C5	3.32	1.52	1.44
22	BB	610	CLA	C4B-NB	3.32	1.38	1.35
22	BC	501	CLA	C4B-NB	3.32	1.38	1.35
27	BC	518	DGD	O6D-C1D	3.32	1.50	1.41
30	AA	413	LMG	O6-C1	3.32	1.50	1.41
22	BC	511	CLA	C1B-NB	3.31	1.38	1.35
26	AC	514	BCR	C29-C30	3.31	1.61	1.54
22	AB	614	CLA	CHC-C1C	3.31	1.43	1.35
27	AA	410	DGD	O3G-C1D	3.31	1.45	1.40
22	BC	506	CLA	CAA-C2A	3.31	1.60	1.54
22	AB	605	CLA	C1B-NB	3.30	1.38	1.35
27	BA	411	DGD	O3G-C1D	3.30	1.45	1.40
22	BC	506	CLA	C4B-NB	3.30	1.38	1.35
26	BJ	102	BCR	C2-C1	3.30	1.61	1.54
34	BV	201	HEM	CHA-C4D	3.30	1.43	1.35
30	AB	623	LMG	O1-C1	3.30	1.45	1.40
22	BC	504	CLA	CHC-C1C	3.30	1.43	1.35
22	BA	405	CLA	CAA-C2A	3.29	1.60	1.54
22	AD	402	CLA	CAA-C2A	3.29	1.60	1.54
26	AB	618	BCR	C29-C30	3.29	1.61	1.54
34	AE	101	HEM	C2C-C1C	3.29	1.50	1.42
22	AB	607	CLA	C4B-NB	3.28	1.38	1.35
30	BE	102	LMG	O1-C1	3.28	1.45	1.40
27	AB	626	DGD	O6E-C1E	3.28	1.50	1.41
29	BL	101	SQD	O3-C3	3.28	1.50	1.43
22	BB	608	CLA	CAA-C2A	3.28	1.60	1.54
30	AA	416	LMG	C4-C5	3.28	1.59	1.53
24	BA	408	PL9	C7-C3	3.28	1.54	1.51
22	BC	502	CLA	C4B-NB	3.28	1.38	1.35
30	AD	408	LMG	O6-C1	3.28	1.50	1.41
26	BA	410	BCR	C2-C1	3.28	1.61	1.54
30	BA	414	LMG	O6-C1	3.27	1.50	1.41
22	AB	609	CLA	CAA-C2A	3.27	1.60	1.54
30	BC	519	LMG	O6-C1	3.26	1.50	1.41
26	BC	515	BCR	C29-C30	3.26	1.61	1.54
22	BC	513	CLA	C1B-NB	3.26	1.38	1.35
22	BA	403	CLA	CAA-C2A	3.26	1.60	1.54
22	BB	619	CLA	C4B-NB	3.26	1.38	1.35
22	AB	605	CLA	CAA-C2A	3.26	1.60	1.54
26	AB	617	BCR	C2-C1	3.26	1.61	1.54
27	BD	410	DGD	O6E-C1E	3.25	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	AC	515	BCR	C2-C1	3.25	1.61	1.54
22	BC	507	CLA	MG-NC	3.25	2.14	2.06
26	AZ	101	BCR	C2-C1	3.25	1.61	1.54
27	BB	602	DGD	O2G-C1B	3.25	1.43	1.34
27	AD	410	DGD	C4E-C5E	3.25	1.59	1.53
27	AB	626	DGD	C4E-C5E	3.25	1.59	1.53
22	BD	402	CLA	CAA-C2A	3.25	1.60	1.54
22	AB	604	CLA	CHC-C1C	3.24	1.43	1.35
22	AB	609	CLA	MG-NC	3.23	2.13	2.06
22	BA	407	CLA	C4B-NB	3.23	1.38	1.35
22	BC	508	CLA	C1B-NB	3.23	1.38	1.35
22	BB	607	CLA	CHC-C1C	3.23	1.43	1.35
26	BB	620	BCR	C29-C30	3.23	1.61	1.54
22	AC	504	CLA	CHC-C1C	3.23	1.43	1.35
22	BB	612	CLA	CAA-C2A	3.23	1.60	1.54
22	AA	406	CLA	C1B-CHB	-3.22	1.32	1.41
30	AC	520	LMG	C4-C5	3.22	1.59	1.53
27	BB	602	DGD	O6D-C5D	3.22	1.52	1.44
26	AB	620	BCR	C26-C25	3.22	1.40	1.34
22	BB	614	CLA	MG-NC	3.22	2.13	2.06
22	AC	512	CLA	CHC-C1C	3.21	1.43	1.35
22	AC	507	CLA	MG-NC	3.21	2.13	2.06
22	BB	619	CLA	CAA-C2A	3.21	1.60	1.54
22	BB	605	CLA	CHC-C1C	3.21	1.43	1.35
22	BB	605	CLA	C1B-CHB	-3.21	1.32	1.41
22	AC	513	CLA	CHC-C1C	3.21	1.43	1.35
22	BC	508	CLA	CHC-C1C	3.21	1.43	1.35
22	AB	602	CLA	CHC-C1C	3.20	1.43	1.35
22	BA	405	CLA	C4B-NB	3.20	1.38	1.35
22	BC	512	CLA	CHC-C1C	3.19	1.43	1.35
26	BB	620	BCR	C2-C1	3.19	1.61	1.54
26	BB	621	BCR	C2-C1	3.19	1.61	1.54
26	AB	619	BCR	C2-C1	3.19	1.61	1.54
22	BC	504	CLA	CAA-C2A	3.19	1.60	1.54
27	AA	410	DGD	C4D-C5D	3.19	1.59	1.53
22	BD	404	CLA	CAA-C2A	3.19	1.60	1.54
22	AB	616	CLA	CAA-C2A	3.19	1.60	1.54
27	BC	516	DGD	O6D-C1D	3.18	1.50	1.41
32	AB	627	LMT	O1B-C1B	3.18	1.50	1.41
26	BA	410	BCR	C26-C25	3.18	1.39	1.34
27	BA	411	DGD	C4E-C3E	3.18	1.60	1.52
22	AD	402	CLA	CHC-C1C	3.18	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	AM	101	LMG	O6-C5	3.18	1.52	1.44
22	AB	607	CLA	CAA-C2A	3.18	1.60	1.54
32	AT	101	LMT	O5B-C1B	3.17	1.49	1.41
30	BI	101	LMG	C4-C5	3.17	1.59	1.53
29	AA	415	SQD	O3-C3	3.17	1.50	1.43
32	BB	626	LMT	O1'-C1'	3.17	1.45	1.40
29	BA	401	SQD	O3-C3	3.17	1.50	1.43
26	AK	102	BCR	C2-C1	3.17	1.61	1.54
26	AH	101	BCR	C2-C1	3.17	1.61	1.54
22	AC	505	CLA	CAA-C2A	3.16	1.60	1.54
22	BB	617	CLA	CAA-C2A	3.16	1.60	1.54
26	AA	409	BCR	C29-C30	3.16	1.61	1.54
30	AE	102	LMG	O1-C1	3.15	1.45	1.40
30	AI	101	LMG	O6-C5	3.15	1.52	1.44
30	BC	520	LMG	O6-C5	3.15	1.52	1.44
29	BF	101	SQD	O8-S	3.15	1.58	1.47
32	AB	625	LMT	O1'-C1'	3.15	1.45	1.40
22	BB	606	CLA	MG-NC	3.14	2.13	2.06
30	AI	101	LMG	C4-C5	3.14	1.59	1.53
22	AB	602	CLA	C1B-CHB	-3.14	1.32	1.41
22	BB	605	CLA	MG-NC	3.14	2.13	2.06
29	AD	409	SQD	O5-C1	3.14	1.49	1.41
27	BA	411	DGD	C4E-C5E	3.13	1.59	1.53
26	AD	406	BCR	C2-C1	3.13	1.61	1.54
22	AB	612	CLA	CHC-C1C	3.13	1.43	1.35
22	AD	404	CLA	C4B-NB	3.12	1.38	1.35
29	BB	601	SQD	O5-C1	3.12	1.49	1.41
30	AC	519	LMG	O6-C1	3.12	1.49	1.41
26	BK	102	BCR	C2-C1	3.12	1.61	1.54
22	BD	404	CLA	CHC-C1C	3.12	1.43	1.35
22	BC	503	CLA	C1B-NB	3.11	1.38	1.35
22	BB	618	CLA	CHC-C1C	3.10	1.42	1.35
29	AA	412	SQD	O3-C3	3.10	1.50	1.43
22	AB	607	CLA	CHC-C1C	3.10	1.42	1.35
27	AA	410	DGD	C4E-C3E	3.10	1.60	1.52
22	BB	614	CLA	C1B-CHB	-3.10	1.32	1.41
22	BB	612	CLA	CHC-C1C	3.10	1.42	1.35
22	AB	608	CLA	C4B-NB	3.10	1.38	1.35
22	AB	611	CLA	C1B-CHB	-3.09	1.32	1.41
27	AA	410	DGD	O6D-C1D	3.09	1.49	1.41
22	BB	610	CLA	CHC-C1C	3.09	1.42	1.35
34	AE	101	HEM	CBD-CAD	3.08	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	AA	409	BCR	C26-C25	3.08	1.39	1.34
22	AB	606	CLA	MG-NC	3.08	2.13	2.06
22	BC	502	CLA	CHC-C1C	3.08	1.42	1.35
22	AC	506	CLA	CAA-C2A	3.08	1.59	1.54
22	AC	512	CLA	MG-NC	3.08	2.13	2.06
22	BB	615	CLA	CHC-C1C	3.06	1.42	1.35
34	BV	201	HEM	C2C-C1C	3.06	1.49	1.42
22	AC	511	CLA	CAA-C2A	3.06	1.59	1.54
30	AA	416	LMG	O1-C1	3.06	1.45	1.40
22	BB	607	CLA	C1B-NB	3.06	1.37	1.35
22	BC	502	CLA	C1B-NB	3.06	1.37	1.35
26	BB	620	BCR	C26-C25	3.06	1.39	1.34
27	BD	410	DGD	C4E-C3E	3.06	1.60	1.52
29	BA	401	SQD	O6-C1	3.05	1.45	1.40
22	AB	611	CLA	MG-NC	3.05	2.13	2.06
29	BF	101	SQD	C8-C7	3.05	1.59	1.50
22	AC	511	CLA	C1B-NB	3.04	1.37	1.35
29	BF	101	SQD	O3-C3	3.04	1.50	1.43
32	BB	603	LMT	O1B-C1B	3.04	1.50	1.41
22	BD	402	CLA	C4B-NB	3.04	1.37	1.35
22	AA	402	CLA	CAA-C2A	3.04	1.59	1.54
22	BA	407	CLA	C1B-CHB	-3.04	1.32	1.41
34	AV	201	HEM	C2C-C1C	3.03	1.49	1.42
22	BD	402	CLA	CHC-C1C	3.03	1.42	1.35
32	BB	603	LMT	O5B-C1B	3.03	1.49	1.41
22	BB	606	CLA	C1B-CHB	-3.03	1.32	1.41
22	AC	504	CLA	C1B-CHB	-3.03	1.32	1.41
22	AB	601	CLA	MG-NC	3.02	2.13	2.06
32	BT	101	LMT	O5B-C1B	3.02	1.49	1.41
22	BA	404	CLA	C1B-CHB	-3.02	1.32	1.41
30	AB	622	LMG	O6-C1	3.01	1.49	1.41
28	BA	412	LHG	O8-C23	3.01	1.42	1.33
30	AI	101	LMG	C3-C2	3.01	1.60	1.52
22	BB	609	CLA	CAA-C2A	3.01	1.59	1.54
22	AB	603	CLA	C1B-CHB	-3.01	1.32	1.41
34	BV	201	HEM	C4D-ND	-3.00	1.35	1.40
32	BB	625	LMT	O5B-C1B	3.00	1.49	1.41
22	BB	612	CLA	C1B-NB	3.00	1.37	1.35
27	BB	602	DGD	C4D-C3D	2.99	1.59	1.52
34	BV	201	HEM	CBD-CAD	2.99	1.61	1.52
22	AD	404	CLA	CHC-C1C	2.99	1.42	1.35
30	AM	101	LMG	C3-C2	2.99	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	AT	102	BCR	C29-C30	2.99	1.61	1.54
22	BB	611	CLA	C1B-NB	2.99	1.37	1.35
22	AA	402	CLA	CHC-C1C	2.99	1.42	1.35
22	AB	608	CLA	C1D-ND	-2.99	1.34	1.37
27	BD	410	DGD	C4E-C5E	2.99	1.59	1.53
26	AC	515	BCR	C29-C30	2.98	1.61	1.54
27	AC	517	DGD	O6D-C1D	2.98	1.49	1.41
22	AC	507	CLA	C1B-CHB	-2.98	1.32	1.41
30	AA	416	LMG	O6-C5	2.98	1.51	1.44
29	BL	101	SQD	O5-C1	2.98	1.49	1.41
22	AC	506	CLA	C4B-NB	2.98	1.37	1.35
22	AC	502	CLA	CHC-C1C	2.98	1.42	1.35
27	AD	410	DGD	C1D-C2D	2.97	1.61	1.52
22	AB	611	CLA	CAA-C2A	2.97	1.59	1.54
22	AC	502	CLA	CAA-C2A	2.97	1.59	1.54
22	BC	503	CLA	MG-NC	2.97	2.13	2.06
28	AA	411	LHG	O8-C23	2.97	1.42	1.33
32	BD	411	LMT	O5'-C1'	2.97	1.49	1.41
22	BC	510	CLA	CHC-C1C	2.97	1.42	1.35
22	BB	610	CLA	C1B-CHB	-2.97	1.32	1.41
22	AB	603	CLA	CAA-C2A	2.96	1.59	1.54
30	BB	624	LMG	O1-C1	2.96	1.45	1.40
22	BD	404	CLA	MG-NC	2.96	2.13	2.06
22	BC	513	CLA	CHC-C1C	2.96	1.42	1.35
22	BA	404	CLA	C4B-NB	2.96	1.37	1.35
22	AB	606	CLA	CAA-C2A	2.95	1.59	1.54
30	BB	623	LMG	O6-C1	2.95	1.49	1.41
27	AD	410	DGD	C4E-C3E	2.95	1.59	1.52
22	BB	618	CLA	MG-NC	2.95	2.13	2.06
22	AC	509	CLA	CHC-C1C	2.95	1.42	1.35
30	BE	102	LMG	O6-C1	2.95	1.49	1.41
29	BD	409	SQD	C12-C11	-2.95	1.35	1.51
27	AD	410	DGD	C3D-C2D	2.94	1.59	1.52
22	AC	508	CLA	C1B-NB	2.94	1.37	1.35
22	BB	612	CLA	MG-NC	2.94	2.13	2.06
26	BA	410	BCR	C29-C30	2.94	1.60	1.54
29	BF	101	SQD	O5-C1	2.94	1.49	1.41
29	AF	101	SQD	C8-C7	2.94	1.59	1.50
29	BD	409	SQD	C16-C15	-2.94	1.35	1.51
29	BB	601	SQD	O3-C3	2.94	1.49	1.43
27	AB	626	DGD	O6D-C1D	2.94	1.49	1.41
27	BC	517	DGD	O3G-C1D	2.93	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	BA	413	SQD	O8-S	2.93	1.58	1.47
29	AA	412	SQD	C32-C31	-2.93	1.35	1.51
30	BB	624	LMG	O6-C1	2.93	1.49	1.41
22	AB	612	CLA	MG-NC	2.93	2.13	2.06
22	AB	615	CLA	CHC-C1C	2.92	1.42	1.35
22	BC	501	CLA	C1B-NB	2.92	1.37	1.35
29	AF	101	SQD	O3-C3	2.92	1.49	1.43
30	BM	102	LMG	C3-C2	2.91	1.59	1.52
22	AB	615	CLA	MG-NC	2.91	2.13	2.06
29	BD	409	SQD	C15-C14	-2.91	1.35	1.51
32	AB	627	LMT	O5B-C1B	2.91	1.49	1.41
29	BB	601	SQD	C17-C16	-2.91	1.35	1.51
30	BI	101	LMG	C3-C2	2.91	1.59	1.52
29	AA	415	SQD	C17-C16	-2.91	1.35	1.51
30	BD	407	LMG	C4-C3	2.91	1.59	1.52
27	AB	626	DGD	O2G-C1B	2.91	1.42	1.34
22	BB	616	CLA	C1B-CHB	-2.90	1.32	1.41
27	AA	410	DGD	O6E-C1E	2.90	1.49	1.41
22	AB	602	CLA	MG-NC	2.90	2.13	2.06
29	BA	401	SQD	C15-C14	-2.90	1.35	1.51
27	BC	516	DGD	O3G-C1D	2.90	1.45	1.40
26	AA	409	BCR	C5-C6	2.90	1.39	1.34
22	AC	505	CLA	MG-NC	2.89	2.13	2.06
22	BC	511	CLA	C4B-NB	2.89	1.37	1.35
32	BI	102	LMT	O5'-C1'	2.89	1.49	1.41
30	BB	623	LMG	O7-C10	2.89	1.42	1.34
30	BC	520	LMG	O7-C10	2.89	1.42	1.34
29	AA	415	SQD	O5-C1	2.88	1.49	1.41
29	AA	415	SQD	C15-C14	-2.88	1.35	1.51
22	AA	406	CLA	CHC-C1C	2.88	1.42	1.35
22	BB	613	CLA	MG-NC	2.88	2.13	2.06
29	AA	415	SQD	C11-C10	-2.88	1.35	1.51
22	AB	607	CLA	C1B-CHB	-2.88	1.33	1.41
32	BD	411	LMT	O5B-C1B	2.87	1.49	1.41
22	AC	506	CLA	C1B-NB	2.87	1.37	1.35
27	AC	518	DGD	O6D-C1D	2.87	1.49	1.41
22	BC	507	CLA	C1B-CHB	-2.87	1.33	1.41
22	BB	617	CLA	MG-NC	2.87	2.13	2.06
22	BB	616	CLA	MG-NA	2.87	2.13	2.06
32	AD	411	LMT	O5'-C1'	2.87	1.49	1.41
30	AC	519	LMG	O6-C5	2.87	1.51	1.44
34	BE	101	HEM	C2C-C1C	2.87	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	AB	624	LMT	O5B-C1B	2.86	1.49	1.41
22	BD	402	CLA	C1B-NB	2.86	1.37	1.35
22	AC	511	CLA	MG-NC	2.86	2.13	2.06
22	AC	503	CLA	CHC-C1C	2.86	1.42	1.35
29	BA	401	SQD	C11-C10	-2.85	1.35	1.51
22	AC	509	CLA	C1D-ND	-2.85	1.34	1.37
22	BB	617	CLA	C1B-CHB	-2.85	1.33	1.41
22	AB	605	CLA	CHC-C1C	2.85	1.42	1.35
29	AD	409	SQD	C11-C10	-2.85	1.35	1.51
29	BB	601	SQD	C19-C18	-2.85	1.35	1.51
26	BK	102	BCR	C14-C13	2.85	1.39	1.35
22	BC	505	CLA	C1B-NB	2.85	1.37	1.35
27	AC	518	DGD	O3G-C1D	2.84	1.45	1.40
22	AB	604	CLA	MG-NC	2.84	2.13	2.06
26	AJ	102	BCR	C2-C1	2.84	1.60	1.54
30	AA	416	LMG	C3-C2	2.84	1.59	1.52
29	BA	401	SQD	C17-C16	-2.84	1.35	1.51
22	AB	613	CLA	C1B-CHB	-2.84	1.33	1.41
29	BL	101	SQD	C19-C18	-2.84	1.35	1.51
22	BA	403	CLA	C1B-CHB	-2.83	1.33	1.41
27	AH	102	DGD	C1E-C2E	2.83	1.60	1.52
22	BD	402	CLA	MG-NC	2.83	2.13	2.06
32	BT	101	LMT	O1'-C1'	2.83	1.45	1.40
32	AD	411	LMT	O5B-C1B	2.83	1.49	1.41
22	AB	610	CLA	C4B-NB	2.83	1.37	1.35
22	BC	509	CLA	CAA-C2A	2.83	1.59	1.54
22	AA	404	CLA	C1B-CHB	-2.83	1.33	1.41
29	AA	412	SQD	C33-C32	-2.83	1.35	1.51
30	BC	519	LMG	O6-C5	2.83	1.51	1.44
22	AC	509	CLA	CAA-C2A	2.83	1.59	1.54
22	BB	608	CLA	C1B-NB	2.83	1.37	1.35
22	AC	510	CLA	CHC-C1C	2.83	1.42	1.35
32	AD	411	LMT	C4B-C5B	2.82	1.59	1.53
27	AA	410	DGD	C4E-C5E	2.82	1.59	1.53
29	AA	415	SQD	C12-C11	-2.82	1.35	1.51
34	AE	101	HEM	C2A-C3A	2.82	1.46	1.37
22	AA	402	CLA	C1B-CHB	-2.82	1.33	1.41
34	AV	201	HEM	CMA-C3A	2.81	1.57	1.51
22	BB	615	CLA	C1D-ND	-2.81	1.34	1.37
22	BC	507	CLA	CHC-C1C	2.81	1.42	1.35
26	BZ	101	BCR	C5-C6	2.81	1.39	1.34
29	AD	409	SQD	C12-C11	-2.81	1.35	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AC	511	CLA	CHC-C1C	2.81	1.42	1.35
22	BC	509	CLA	CHC-C1C	2.81	1.42	1.35
22	BC	503	CLA	CHC-C1C	2.80	1.42	1.35
22	AC	502	CLA	C1B-NB	2.80	1.37	1.35
22	BA	405	CLA	MG-NC	2.80	2.12	2.06
22	BB	606	CLA	C4B-NB	2.80	1.37	1.35
29	AA	412	SQD	O6-C44	-2.80	1.38	1.43
30	BD	407	LMG	O6-C1	2.80	1.49	1.41
22	AC	506	CLA	MG-NC	2.80	2.12	2.06
26	BB	620	BCR	C5-C6	2.80	1.39	1.34
30	AB	622	LMG	O1-C1	2.80	1.45	1.40
30	BB	623	LMG	C4-C3	2.80	1.59	1.52
22	AB	609	CLA	CHC-C1C	2.80	1.42	1.35
22	BB	615	CLA	C1B-CHB	-2.79	1.33	1.41
22	AD	402	CLA	MG-NC	2.79	2.12	2.06
27	BD	410	DGD	O2G-C1B	2.79	1.42	1.34
27	BC	516	DGD	C4E-C3E	2.79	1.59	1.52
22	AB	614	CLA	C1B-CHB	-2.79	1.33	1.41
22	AA	403	CLA	C1B-CHB	-2.79	1.33	1.41
22	BC	506	CLA	MG-NC	2.79	2.12	2.06
22	AC	507	CLA	CHC-C1C	2.79	1.42	1.35
26	AC	514	BCR	C2-C1	2.79	1.60	1.54
32	BB	603	LMT	O5'-C1'	2.79	1.48	1.41
29	AF	101	SQD	O8-S	2.78	1.57	1.47
29	AD	409	SQD	C15-C14	-2.78	1.35	1.51
22	BB	619	CLA	MG-NC	2.78	2.12	2.06
27	AB	626	DGD	C3D-C2D	2.78	1.59	1.52
29	BL	101	SQD	C17-C16	-2.78	1.36	1.51
29	BL	101	SQD	C11-C10	-2.78	1.36	1.51
29	BA	413	SQD	O3-C3	2.78	1.49	1.43
22	BC	502	CLA	MG-NC	2.78	2.12	2.06
22	BC	504	CLA	C1B-CHB	-2.78	1.33	1.41
32	BI	102	LMT	O5B-C1B	2.78	1.48	1.41
22	AA	402	CLA	C4B-NB	2.78	1.37	1.35
22	BC	506	CLA	C1B-CHB	-2.78	1.33	1.41
22	AC	505	CLA	C1D-C2D	-2.78	1.39	1.45
32	AI	102	LMT	O5B-C1B	2.78	1.48	1.41
29	BB	601	SQD	O6-C1	2.77	1.44	1.40
29	BB	601	SQD	C16-C15	-2.77	1.36	1.51
22	BB	619	CLA	CHC-C1C	2.77	1.42	1.35
29	AD	409	SQD	C16-C15	-2.77	1.36	1.51
22	BC	512	CLA	MG-NC	2.77	2.12	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BB	613	CLA	CHC-C1C	2.76	1.42	1.35
29	BA	413	SQD	C12-C11	-2.76	1.36	1.51
29	BB	601	SQD	C20-C19	-2.76	1.36	1.51
22	AA	406	CLA	C4B-NB	2.76	1.37	1.35
26	AZ	101	BCR	C5-C6	2.76	1.39	1.34
24	BJ	101	PL9	C7-C8	2.76	1.54	1.50
29	BD	409	SQD	C11-C10	-2.76	1.36	1.51
22	AC	513	CLA	MG-NC	2.76	2.12	2.06
30	AM	101	LMG	C4-C5	2.76	1.58	1.53
29	AA	415	SQD	C16-C15	-2.76	1.36	1.51
22	BB	619	CLA	C1B-CHB	-2.76	1.33	1.41
30	BI	101	LMG	O7-C10	2.76	1.42	1.34
29	BA	413	SQD	C32-C31	-2.75	1.36	1.51
22	AC	504	CLA	MG-NA	2.75	2.12	2.06
22	AB	611	CLA	C4B-NB	2.75	1.37	1.35
29	BA	401	SQD	O5-C1	2.75	1.48	1.41
32	AB	625	LMT	O5'-C1'	2.75	1.48	1.41
22	AB	606	CLA	CHC-C1C	2.75	1.42	1.35
22	AC	506	CLA	CHC-C1C	2.75	1.42	1.35
27	AA	410	DGD	C3E-C2E	2.75	1.59	1.52
26	BC	514	BCR	C5-C6	2.75	1.39	1.34
22	AB	616	CLA	C1B-CHB	-2.75	1.33	1.41
27	AC	518	DGD	O6D-C5D	2.75	1.51	1.44
34	AE	101	HEM	CMA-C3A	2.75	1.57	1.51
30	AB	622	LMG	C4-C5	2.74	1.58	1.53
29	BB	601	SQD	C15-C14	-2.74	1.36	1.51
22	AB	604	CLA	C1B-NB	2.74	1.37	1.35
29	BD	409	SQD	C14-C13	-2.74	1.36	1.51
26	AC	515	BCR	C26-C25	2.74	1.39	1.34
26	AH	101	BCR	C14-C13	2.74	1.39	1.35
22	BC	511	CLA	CHC-C1C	2.74	1.42	1.35
22	BC	513	CLA	MG-NC	2.74	2.12	2.06
29	BL	101	SQD	C12-C11	-2.73	1.36	1.51
22	AC	503	CLA	MG-NC	2.73	2.12	2.06
29	AA	412	SQD	C12-C11	-2.73	1.36	1.51
29	BL	101	SQD	C15-C14	-2.73	1.36	1.51
27	AD	410	DGD	O2G-C1B	2.73	1.42	1.34
22	AB	603	CLA	C4B-NB	2.73	1.37	1.35
30	AI	101	LMG	O7-C10	2.73	1.42	1.34
24	BJ	101	PL9	C2-C1	2.73	1.52	1.44
29	AA	412	SQD	C17-C16	-2.73	1.36	1.51
29	BD	409	SQD	C13-C12	-2.73	1.36	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	AV	201	HEM	CBD-CAD	2.72	1.60	1.52
29	BB	601	SQD	C12-C11	-2.72	1.36	1.51
22	AB	616	CLA	CHC-C1C	2.72	1.41	1.35
26	BK	102	BCR	C26-C25	2.72	1.39	1.34
22	BC	511	CLA	MG-NC	2.72	2.12	2.06
32	AB	627	LMT	O5'-C1'	2.72	1.48	1.41
22	AA	403	CLA	CHC-C1C	2.72	1.41	1.35
22	AC	505	CLA	C1C-C2C	2.72	1.49	1.44
30	AB	623	LMG	C3-C2	2.71	1.59	1.52
26	AB	618	BCR	C26-C25	2.71	1.39	1.34
29	AA	415	SQD	C19-C18	-2.71	1.36	1.51
29	BB	601	SQD	C11-C10	-2.71	1.36	1.51
29	BF	101	SQD	C17-C16	-2.71	1.36	1.51
22	BB	606	CLA	CAA-C2A	2.71	1.59	1.54
30	AC	519	LMG	C4-C5	2.71	1.58	1.53
27	AH	102	DGD	C4E-C5E	2.70	1.58	1.53
29	AA	412	SQD	C16-C15	-2.70	1.36	1.51
22	AB	611	CLA	CHC-C1C	2.70	1.41	1.35
29	AA	412	SQD	C15-C14	-2.70	1.36	1.51
30	BB	624	LMG	C4-C5	2.70	1.58	1.53
22	BC	507	CLA	C4B-NB	2.69	1.37	1.35
22	BC	508	CLA	MG-NC	2.69	2.12	2.06
22	AC	504	CLA	MG-NC	2.69	2.12	2.06
30	BD	408	LMG	O6-C5	2.69	1.50	1.44
29	BL	101	SQD	C20-C19	-2.69	1.36	1.51
29	BL	101	SQD	C14-C13	-2.68	1.36	1.51
26	AK	102	BCR	C14-C13	2.68	1.39	1.35
32	AT	101	LMT	O1'-C1'	2.68	1.44	1.40
29	AF	101	SQD	O5-C1	2.68	1.48	1.41
30	BI	101	LMG	C1-C2	2.68	1.60	1.52
24	AA	407	PL9	C7-C3	2.68	1.54	1.51
29	BA	413	SQD	C33-C32	-2.68	1.36	1.51
27	AD	410	DGD	C4D-C3D	2.68	1.59	1.52
22	BC	506	CLA	CHC-C1C	2.68	1.41	1.35
26	AH	101	BCR	C38-C26	2.68	1.55	1.50
29	BL	101	SQD	C16-C15	-2.68	1.36	1.51
22	BA	405	CLA	CHC-C1C	2.68	1.41	1.35
27	AC	516	DGD	O6D-C5D	2.68	1.50	1.44
34	AV	201	HEM	C3C-CAC	2.67	1.53	1.47
30	AB	622	LMG	O6-C5	2.67	1.50	1.44
29	AD	409	SQD	C14-C13	-2.67	1.36	1.51
29	AF	101	SQD	C17-C16	-2.67	1.36	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	AC	520	LMG	O7-C10	2.67	1.41	1.34
27	AC	517	DGD	O6D-C5D	2.67	1.50	1.44
22	AA	403	CLA	C5-C3	2.67	1.56	1.51
29	BA	413	SQD	C16-C15	-2.67	1.36	1.51
30	AB	621	LMG	O6-C1	2.67	1.48	1.41
26	BX	101	BCR	C38-C26	2.67	1.55	1.50
29	BA	413	SQD	C11-C10	-2.67	1.36	1.51
22	BB	608	CLA	CHC-C1C	2.67	1.41	1.35
27	BC	516	DGD	O6D-C5D	2.67	1.50	1.44
22	BB	616	CLA	MG-NC	2.66	2.12	2.06
22	BB	616	CLA	CHC-C1C	2.66	1.41	1.35
22	AB	613	CLA	CHC-C1C	2.66	1.41	1.35
32	AI	102	LMT	O5'-C1'	2.66	1.48	1.41
29	BA	413	SQD	C15-C14	-2.66	1.36	1.51
26	BD	406	BCR	C38-C26	2.66	1.55	1.50
22	AC	513	CLA	C1B-NB	2.66	1.37	1.35
22	AB	608	CLA	CHC-C1C	2.66	1.41	1.35
29	BA	401	SQD	C12-C11	-2.65	1.36	1.51
29	AF	101	SQD	C15-C14	-2.65	1.36	1.51
29	BA	401	SQD	C19-C18	-2.65	1.36	1.51
27	BD	410	DGD	C1D-C2D	2.65	1.60	1.52
27	AC	518	DGD	C4E-C3E	2.65	1.59	1.52
34	BE	101	HEM	CMA-C3A	2.65	1.57	1.51
22	AA	402	CLA	MG-NC	2.65	2.12	2.06
29	AA	412	SQD	C14-C13	-2.65	1.36	1.51
26	AJ	102	BCR	C14-C13	2.65	1.39	1.35
29	AA	412	SQD	C11-C10	-2.64	1.36	1.51
22	BD	404	CLA	C1B-CHB	-2.64	1.33	1.41
32	AT	101	LMT	O1B-C1B	2.64	1.49	1.41
22	AA	404	CLA	CHC-C1C	2.64	1.41	1.35
29	BA	413	SQD	C17-C16	-2.64	1.36	1.51
22	BB	608	CLA	MG-NC	2.63	2.12	2.06
27	BD	410	DGD	C4D-C3D	2.63	1.59	1.52
27	BA	411	DGD	O2G-C1B	2.63	1.41	1.34
22	BB	609	CLA	CHC-C1C	2.63	1.41	1.35
22	AA	404	CLA	MG-NC	2.63	2.12	2.06
29	AF	101	SQD	C44-C45	2.63	1.58	1.50
22	BB	604	CLA	MG-NC	2.63	2.12	2.06
29	AA	412	SQD	O8-S	2.62	1.56	1.47
22	AB	613	CLA	C4B-NB	2.62	1.37	1.35
26	AC	514	BCR	C5-C6	2.62	1.39	1.34
32	BB	625	LMT	C4B-C5B	2.62	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BB	613	CLA	CAA-C2A	2.62	1.59	1.54
30	AB	623	LMG	O6-C5	2.62	1.50	1.44
30	AB	621	LMG	O1-C1	2.62	1.44	1.40
22	BA	407	CLA	CHC-C1C	2.62	1.41	1.35
22	BB	610	CLA	MG-NC	2.62	2.12	2.06
22	BB	611	CLA	CHC-C1C	2.62	1.41	1.35
22	BB	613	CLA	C1B-CHB	-2.62	1.33	1.41
29	AD	409	SQD	C13-C12	-2.61	1.36	1.51
27	BH	101	DGD	O3G-C1D	2.61	1.44	1.40
30	AD	408	LMG	O6-C5	2.61	1.50	1.44
22	BC	501	CLA	MG-NC	2.61	2.12	2.06
29	BB	601	SQD	C18-C17	-2.61	1.36	1.51
29	BD	409	SQD	O5-C1	2.61	1.48	1.41
30	AB	623	LMG	C4-C3	2.61	1.59	1.52
29	BB	601	SQD	C14-C13	-2.61	1.36	1.51
29	BA	401	SQD	C16-C15	-2.61	1.36	1.51
27	AC	516	DGD	C4E-C3E	2.61	1.59	1.52
34	BE	101	HEM	FE-NB	2.61	2.09	1.96
34	BE	101	HEM	C2A-C3A	2.60	1.45	1.37
27	AD	410	DGD	C3E-C2E	2.60	1.59	1.52
26	BJ	102	BCR	C14-C13	2.60	1.39	1.35
29	BL	101	SQD	O6-C1	2.60	1.44	1.40
29	AF	101	SQD	C16-C15	-2.60	1.37	1.51
22	AC	509	CLA	C1B-CHB	-2.60	1.33	1.41
22	AB	616	CLA	MG-NC	2.60	2.12	2.06
22	AC	502	CLA	C1B-CHB	-2.59	1.33	1.41
29	BA	401	SQD	C14-C13	-2.59	1.37	1.51
27	AC	517	DGD	C4D-C5D	2.59	1.58	1.53
27	BA	411	DGD	O6E-C1E	2.59	1.48	1.41
32	AB	627	LMT	O1'-C1'	2.59	1.44	1.40
24	BJ	101	PL9	C7-C3	2.58	1.53	1.51
27	BB	602	DGD	C3E-C2E	2.58	1.58	1.52
22	BB	614	CLA	CHC-C1C	2.58	1.41	1.35
22	BB	609	CLA	C4B-NB	2.58	1.37	1.35
27	AB	626	DGD	O6E-C5E	2.58	1.50	1.44
30	AE	102	LMG	O6-C5	2.58	1.50	1.44
22	BC	501	CLA	CHC-C1C	2.58	1.41	1.35
29	BF	101	SQD	C44-C45	2.57	1.58	1.50
30	AD	407	LMG	C4-C3	2.57	1.58	1.52
22	BA	403	CLA	MG-NC	2.57	2.12	2.06
26	AB	619	BCR	C14-C13	2.57	1.39	1.35
30	BB	623	LMG	O6-C5	2.57	1.50	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BC	505	CLA	C1D-ND	-2.57	1.34	1.37
27	BC	516	DGD	C4D-C3D	2.57	1.58	1.52
27	BC	517	DGD	O6D-C5D	2.57	1.50	1.44
27	BA	411	DGD	C1E-C2E	2.57	1.59	1.52
22	AC	509	CLA	MG-NC	2.57	2.12	2.06
27	BH	101	DGD	C4E-C3E	2.57	1.58	1.52
27	BB	602	DGD	O6E-C5E	2.57	1.50	1.44
27	BC	518	DGD	O6D-C5D	2.57	1.50	1.44
27	AH	102	DGD	O3G-C1D	2.56	1.44	1.40
29	BA	413	SQD	C19-C18	-2.56	1.37	1.51
22	AC	501	CLA	CHC-C1C	2.56	1.41	1.35
29	BA	401	SQD	C18-C17	-2.56	1.37	1.51
22	BC	505	CLA	MG-NC	2.56	2.12	2.06
22	AB	603	CLA	MG-NC	2.56	2.12	2.06
27	AC	516	DGD	O6D-C1D	2.56	1.48	1.41
29	AA	415	SQD	C20-C19	-2.56	1.37	1.51
29	AA	415	SQD	C33-C32	-2.56	1.37	1.51
22	BA	405	CLA	C1B-CHB	-2.56	1.33	1.41
29	AA	412	SQD	C20-C19	-2.56	1.37	1.51
30	BE	102	LMG	O7-C10	2.56	1.41	1.34
29	BF	101	SQD	C15-C14	-2.55	1.37	1.51
29	AA	412	SQD	C19-C18	-2.55	1.37	1.51
22	AC	510	CLA	C1B-CHB	-2.55	1.33	1.41
22	AC	501	CLA	MG-NC	2.55	2.12	2.06
30	BE	102	LMG	O6-C5	2.55	1.50	1.44
24	AJ	101	PL9	C7-C3	2.55	1.53	1.51
30	AA	413	LMG	O1-C1	2.55	1.44	1.40
29	BF	101	SQD	C12-C11	-2.55	1.37	1.51
22	AC	510	CLA	C1D-ND	-2.55	1.34	1.37
22	AC	503	CLA	C1B-NB	2.55	1.37	1.35
27	AD	410	DGD	C4D-C5D	2.55	1.58	1.53
22	AD	404	CLA	MG-NC	2.55	2.12	2.06
27	AB	626	DGD	C1D-C2D	2.54	1.59	1.52
22	AB	605	CLA	C1B-CHB	-2.54	1.33	1.41
26	BB	622	BCR	C14-C13	2.54	1.39	1.35
26	AT	102	BCR	C26-C25	2.54	1.38	1.34
29	BL	101	SQD	C18-C17	-2.54	1.37	1.51
30	BC	519	LMG	C4-C5	2.54	1.58	1.53
22	AC	508	CLA	MG-NC	2.54	2.12	2.06
29	AA	415	SQD	C18-C17	-2.54	1.37	1.51
22	BC	502	CLA	C1B-CHB	-2.53	1.33	1.41
27	BH	101	DGD	C1E-C2E	2.53	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	AB	621	LMG	O7-C10	2.53	1.41	1.34
27	AC	518	DGD	O5D-C1E	2.53	1.44	1.40
29	BA	413	SQD	O5-C1	2.53	1.48	1.41
22	AC	502	CLA	C1D-ND	-2.53	1.34	1.37
30	AC	520	LMG	C3-C2	2.53	1.58	1.52
30	AC	520	LMG	O8-C28	2.53	1.40	1.33
29	BF	101	SQD	C11-C10	-2.52	1.37	1.51
29	BA	413	SQD	C14-C13	-2.52	1.37	1.51
29	AA	415	SQD	C32-C31	-2.52	1.37	1.51
22	BB	618	CLA	CAA-C2A	2.52	1.58	1.54
34	AE	101	HEM	FE-NB	2.52	2.09	1.96
29	BF	101	SQD	C16-C15	-2.52	1.37	1.51
29	BB	601	SQD	C13-C12	-2.52	1.37	1.51
22	BB	611	CLA	C5-C3	2.52	1.56	1.51
29	BA	413	SQD	C20-C19	-2.52	1.37	1.51
27	BD	410	DGD	C1E-C2E	2.52	1.59	1.52
30	AA	416	LMG	C4-C3	2.51	1.58	1.52
22	BC	508	CLA	C1B-CHB	-2.51	1.34	1.41
22	AD	402	CLA	C4C-C3C	2.51	1.49	1.45
22	AB	610	CLA	C1B-CHB	-2.51	1.34	1.41
22	AA	406	CLA	C4-C3	2.51	1.57	1.50
27	BB	602	DGD	O6D-C1D	2.51	1.48	1.41
22	AC	508	CLA	C1B-CHB	-2.51	1.34	1.41
27	BD	410	DGD	C3D-C2D	2.51	1.58	1.52
22	AD	402	CLA	C1C-C2C	2.51	1.49	1.44
22	AD	402	CLA	C1B-NB	2.51	1.37	1.35
30	BM	102	LMG	C4-C5	2.50	1.58	1.53
26	AK	102	BCR	C26-C25	2.50	1.38	1.34
22	AC	502	CLA	MG-NC	2.50	2.12	2.06
22	BC	505	CLA	C1D-C2D	-2.50	1.40	1.45
30	AB	621	LMG	C4-C3	2.50	1.58	1.52
30	BD	407	LMG	O1-C1	2.50	1.44	1.40
22	AB	608	CLA	C1B-CHB	-2.50	1.34	1.41
22	BC	509	CLA	C1B-CHB	-2.50	1.34	1.41
30	BA	414	LMG	O1-C1	2.50	1.44	1.40
27	AD	410	DGD	O1G-C1A	2.50	1.40	1.33
27	BH	101	DGD	O6E-C1E	2.49	1.48	1.41
22	AB	611	CLA	MG-NA	2.49	2.12	2.06
29	BA	413	SQD	C13-C12	-2.49	1.37	1.51
30	AA	416	LMG	O8-C28	2.49	1.40	1.33
30	BC	519	LMG	C4-C3	2.49	1.58	1.52
30	AD	407	LMG	O6-C1	2.48	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	BA	407	CLA	C1B-NB	2.48	1.37	1.35
29	AA	415	SQD	C14-C13	-2.48	1.37	1.51
30	AD	407	LMG	O1-C1	2.48	1.44	1.40
30	BB	624	LMG	O6-C5	2.48	1.50	1.44
23	BA	406	PHO	C4-C3	2.48	1.57	1.50
24	AJ	101	PL9	C2-C1	2.48	1.51	1.44
29	BA	401	SQD	C32-C31	-2.48	1.37	1.51
27	AH	102	DGD	C4E-C3E	2.48	1.58	1.52
27	BC	517	DGD	C4D-C5D	2.48	1.58	1.53
26	BB	622	BCR	C26-C25	2.48	1.38	1.34
30	AC	519	LMG	C4-C3	2.48	1.58	1.52
22	BC	501	CLA	C1B-CHB	-2.47	1.34	1.41
29	BA	401	SQD	C33-C32	-2.47	1.37	1.51
22	BC	510	CLA	MG-NC	2.47	2.12	2.06
34	AV	201	HEM	C2A-C3A	2.47	1.45	1.37
22	BB	608	CLA	C1B-CHB	-2.47	1.34	1.41
32	AB	624	LMT	O1'-C1'	2.47	1.44	1.40
22	AB	615	CLA	CAA-C2A	2.47	1.58	1.54
22	AC	501	CLA	C1B-CHB	-2.47	1.34	1.41
22	BA	407	CLA	C1D-ND	-2.47	1.34	1.37
29	BL	101	SQD	C6-S	2.47	1.86	1.77
30	BE	102	LMG	C4-C5	2.47	1.58	1.53
22	BB	613	CLA	C1B-NB	2.47	1.37	1.35
30	BC	520	LMG	O1-C1	2.47	1.44	1.40
29	BL	101	SQD	C13-C12	-2.47	1.37	1.51
32	BB	626	LMT	O5B-C1B	2.46	1.48	1.41
24	AJ	101	PL9	C3-C4	2.46	1.53	1.49
22	AC	507	CLA	C4B-NB	2.46	1.37	1.35
22	AB	610	CLA	MG-NC	2.46	2.12	2.06
22	BB	607	CLA	MG-NC	2.46	2.12	2.06
29	AF	101	SQD	C11-C10	-2.46	1.37	1.51
30	BC	520	LMG	C3-C2	2.46	1.58	1.52
22	AB	605	CLA	C1D-ND	-2.46	1.34	1.37
22	BC	508	CLA	CAA-C2A	2.45	1.58	1.54
34	AV	201	HEM	FE-NB	2.45	2.09	1.96
22	AB	614	CLA	MG-NC	2.45	2.12	2.06
22	BB	615	CLA	CAA-C2A	2.45	1.58	1.54
22	BA	405	CLA	C1D-ND	-2.45	1.34	1.37
26	AA	409	BCR	C19-C18	-2.45	1.40	1.45
30	BD	407	LMG	O6-C5	2.45	1.50	1.44
32	BB	625	LMT	C4B-C3B	2.44	1.58	1.52
22	BB	615	CLA	MG-NC	2.44	2.12	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AB	601	CLA	CHC-C1C	2.44	1.41	1.35
22	AC	506	CLA	C1B-CHB	-2.44	1.34	1.41
27	BD	410	DGD	O6E-C5E	2.44	1.50	1.44
27	BA	411	DGD	O6E-C5E	2.43	1.50	1.44
29	BD	409	SQD	C8-C7	2.43	1.57	1.50
27	AB	626	DGD	C4D-C3D	2.43	1.58	1.52
29	AA	412	SQD	C13-C12	-2.43	1.37	1.51
32	BB	626	LMT	O5'-C1'	2.43	1.48	1.41
30	BB	623	LMG	O1-C1	2.43	1.44	1.40
22	AB	606	CLA	C1B-CHB	-2.43	1.34	1.41
26	BZ	101	BCR	C23-C22	-2.43	1.40	1.45
32	BB	625	LMT	C1B-C2B	2.43	1.59	1.52
22	AC	505	CLA	C4C-C3C	2.43	1.49	1.45
34	AV	201	HEM	C4D-ND	-2.43	1.36	1.40
32	BB	625	LMT	O1'-C1'	2.43	1.44	1.40
34	BE	101	HEM	CHA-C4D	2.43	1.41	1.35
22	AB	603	CLA	C1D-ND	-2.42	1.34	1.37
30	BC	520	LMG	O8-C28	2.42	1.40	1.33
27	BD	410	DGD	C4D-C5D	2.42	1.58	1.53
29	BA	401	SQD	C13-C12	-2.42	1.38	1.51
29	AA	415	SQD	C13-C12	-2.42	1.38	1.51
29	AF	101	SQD	C12-C11	-2.42	1.38	1.51
32	AB	625	LMT	O5B-C1B	2.42	1.48	1.41
32	BB	625	LMT	O5B-C5B	2.42	1.50	1.44
23	AA	405	PHO	C3A-C2A	-2.41	1.52	1.54
27	AD	410	DGD	C1E-C2E	2.41	1.59	1.52
22	AB	615	CLA	C1B-CHB	-2.41	1.34	1.41
29	BA	401	SQD	C20-C19	-2.40	1.38	1.51
22	BC	510	CLA	CAA-C2A	2.40	1.58	1.54
29	BA	401	SQD	C36-C35	-2.40	1.38	1.51
22	AC	510	CLA	CAA-C2A	2.40	1.58	1.54
22	BB	616	CLA	C4B-NB	2.40	1.37	1.35
22	BB	611	CLA	C1B-CHB	-2.40	1.34	1.41
22	BC	513	CLA	C1C-C2C	2.40	1.49	1.44
22	BB	618	CLA	C1B-CHB	-2.40	1.34	1.41
26	AB	620	BCR	C14-C13	2.40	1.39	1.35
29	BA	401	SQD	C24-C23	2.40	1.57	1.50
22	BB	611	CLA	MG-NC	2.39	2.12	2.06
22	BC	506	CLA	C1B-NB	2.39	1.37	1.35
22	AC	513	CLA	C1B-CHB	-2.39	1.34	1.41
32	AB	625	LMT	C4B-C5B	2.39	1.58	1.53
22	BB	607	CLA	C1D-ND	-2.38	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AC	513	CLA	C4-C3	2.38	1.56	1.50
30	AE	102	LMG	O7-C10	2.38	1.41	1.34
22	BA	407	CLA	C4-C3	2.38	1.56	1.50
22	AB	612	CLA	C1B-CHB	-2.38	1.34	1.41
22	AA	402	CLA	CAA-CBA	-2.38	1.45	1.52
22	BB	607	CLA	C1D-C2D	-2.37	1.40	1.45
22	AB	610	CLA	C1D-ND	-2.37	1.34	1.37
22	AB	612	CLA	CAA-C2A	2.37	1.58	1.54
22	BB	604	CLA	CHC-C1C	2.37	1.41	1.35
22	BA	403	CLA	CAA-CBA	-2.37	1.45	1.52
29	BF	101	SQD	C14-C13	-2.37	1.38	1.51
22	AB	613	CLA	C1D-ND	-2.37	1.34	1.37
34	AE	101	HEM	CHA-C4D	2.37	1.41	1.35
22	BC	509	CLA	C1B-NB	2.37	1.37	1.35
22	BB	616	CLA	CAA-C2A	2.36	1.58	1.54
22	AB	615	CLA	C1B-NB	2.36	1.37	1.35
27	BA	411	DGD	C3E-C2E	2.36	1.58	1.52
26	BA	410	BCR	C19-C18	-2.35	1.40	1.45
30	BB	624	LMG	C4-C3	2.35	1.58	1.52
26	BB	620	BCR	C19-C18	-2.35	1.40	1.45
30	AC	520	LMG	C9-C8	2.35	1.57	1.50
29	AF	101	SQD	C14-C13	-2.35	1.38	1.51
27	BH	101	DGD	C3D-C2D	2.34	1.58	1.52
22	BD	402	CLA	C1B-CHB	-2.34	1.34	1.41
22	AB	603	CLA	C4-C3	2.34	1.56	1.50
22	BB	619	CLA	C4-C3	2.34	1.56	1.50
29	AA	412	SQD	O5-C1	2.34	1.47	1.41
27	BC	518	DGD	O6E-C1E	2.34	1.47	1.41
22	BB	619	CLA	C2-C3	2.34	1.38	1.33
27	AH	102	DGD	O6D-C1D	2.34	1.47	1.41
22	AB	602	CLA	CAA-CBA	-2.34	1.45	1.52
27	AD	410	DGD	O6E-C5E	2.34	1.50	1.44
24	BA	408	PL9	C2-C1	2.34	1.51	1.44
22	AB	610	CLA	C4C-C3C	2.34	1.49	1.45
23	BA	406	PHO	CAA-CBA	-2.33	1.45	1.52
22	BC	509	CLA	MG-NC	2.33	2.11	2.06
32	BD	411	LMT	C4B-C5B	2.33	1.57	1.53
22	AC	501	CLA	C4B-NB	2.33	1.37	1.35
22	AB	604	CLA	C1B-CHB	-2.33	1.34	1.41
22	BC	510	CLA	C1B-CHB	-2.33	1.34	1.41
22	AB	607	CLA	C1C-C2C	2.33	1.49	1.44
22	BC	509	CLA	C5-C3	2.33	1.56	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	AA	410	DGD	C1E-C2E	2.32	1.59	1.52
29	AA	415	SQD	C36-C35	-2.32	1.38	1.51
22	AD	404	CLA	C1B-CHB	-2.32	1.34	1.41
22	BC	508	CLA	C4-C3	2.32	1.56	1.50
22	AB	613	CLA	CAA-C2A	2.32	1.58	1.54
30	BC	520	LMG	C9-C8	2.32	1.57	1.50
22	AB	608	CLA	C5-C3	2.31	1.56	1.51
29	AA	415	SQD	C34-C33	-2.31	1.38	1.51
22	AB	610	CLA	C4-C3	2.31	1.56	1.50
22	AB	610	CLA	CHC-C1C	2.31	1.40	1.35
22	BC	504	CLA	MG-NC	2.31	2.11	2.06
27	BD	410	DGD	C3E-C2E	2.31	1.58	1.52
29	BD	409	SQD	C17-C16	-2.31	1.35	1.51
26	AH	101	BCR	C5-C6	2.30	1.38	1.34
27	BC	516	DGD	O6E-C1E	2.30	1.47	1.41
30	AD	407	LMG	O6-C5	2.30	1.49	1.44
22	BB	609	CLA	C1B-NB	2.30	1.37	1.35
22	BB	613	CLA	C4C-C3C	2.30	1.49	1.45
23	AD	403	PHO	C4-C3	2.30	1.56	1.50
22	BC	504	CLA	C4-C3	2.30	1.56	1.50
24	BJ	101	PL9	C3-C4	2.30	1.53	1.49
26	AD	406	BCR	C38-C26	2.30	1.54	1.50
32	BB	625	LMT	C3B-C2B	2.30	1.58	1.52
29	AA	415	SQD	C35-C34	-2.30	1.38	1.51
22	BC	509	CLA	C4C-C3C	2.30	1.49	1.45
27	AH	102	DGD	O6E-C1E	2.29	1.47	1.41
22	AC	508	CLA	CAA-C2A	2.29	1.58	1.54
34	AE	101	HEM	C3B-C4B	2.29	1.49	1.44
27	AB	626	DGD	C3E-C2E	2.29	1.58	1.52
22	AB	608	CLA	MG-NC	2.29	2.11	2.06
22	AC	508	CLA	C4-C3	2.29	1.56	1.50
22	BB	611	CLA	C4-C3	2.29	1.56	1.50
27	BC	516	DGD	C4D-C5D	2.29	1.57	1.53
30	AB	621	LMG	O6-C5	2.29	1.49	1.44
27	AC	516	DGD	O6E-C1E	2.29	1.47	1.41
27	AC	517	DGD	C6D-C5D	2.29	1.58	1.51
22	AB	605	CLA	MG-NC	2.28	2.11	2.06
22	BB	606	CLA	C4-C3	2.28	1.56	1.50
30	AB	622	LMG	C4-C3	2.28	1.58	1.52
30	BA	414	LMG	O6-C5	2.28	1.49	1.44
30	AI	101	LMG	C1-C2	2.28	1.59	1.52
29	BA	413	SQD	O6-C44	-2.28	1.39	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AC	512	CLA	C1B-CHB	-2.28	1.34	1.41
27	AC	518	DGD	O6E-C1E	2.28	1.47	1.41
27	AB	626	DGD	C1E-C2E	2.28	1.59	1.52
22	AD	402	CLA	C1B-CHB	-2.27	1.34	1.41
26	BB	620	BCR	C23-C22	-2.27	1.41	1.45
23	BA	406	PHO	C3A-C2A	-2.27	1.52	1.54
22	BB	609	CLA	MG-NC	2.27	2.11	2.06
26	BJ	102	BCR	C3-C4	2.27	1.59	1.52
22	AB	604	CLA	C1D-C2D	-2.27	1.40	1.45
32	AB	627	LMT	O1B-C4'	2.27	1.49	1.43
29	BA	401	SQD	C35-C34	-2.27	1.38	1.51
22	BC	507	CLA	C1B-NB	2.27	1.37	1.35
22	BB	614	CLA	MG-NA	2.26	2.11	2.06
22	AC	503	CLA	C1B-CHB	-2.26	1.34	1.41
34	BV	201	HEM	C3C-CAC	2.26	1.52	1.47
29	BF	101	SQD	C13-C12	-2.26	1.38	1.51
27	AC	516	DGD	O3G-C1D	2.26	1.44	1.40
30	BA	414	LMG	C4-C3	2.26	1.58	1.52
22	AC	513	CLA	C1C-C2C	2.26	1.48	1.44
22	AB	613	CLA	MG-NC	2.25	2.11	2.06
32	BB	626	LMT	C4B-C5B	2.25	1.57	1.53
34	BE	101	HEM	C3B-C4B	2.25	1.49	1.44
22	BB	614	CLA	CAA-C2A	2.25	1.58	1.54
22	BC	505	CLA	C4C-C3C	2.25	1.48	1.45
22	AC	505	CLA	C1B-CHB	-2.25	1.34	1.41
22	BB	609	CLA	C1B-CHB	-2.25	1.34	1.41
22	AB	614	CLA	C1B-NB	2.25	1.37	1.35
30	AI	101	LMG	O1-C1	2.25	1.44	1.40
27	BB	602	DGD	O1G-C1A	2.25	1.39	1.33
22	AB	603	CLA	C1D-C2D	-2.25	1.40	1.45
29	AD	409	SQD	C44-C45	2.24	1.57	1.50
32	BB	603	LMT	C4B-C5B	2.24	1.57	1.53
27	AB	626	DGD	O5D-C6D	2.24	1.47	1.43
32	AB	624	LMT	C4B-C5B	2.24	1.57	1.53
27	BC	517	DGD	C6D-C5D	2.24	1.58	1.51
27	AC	516	DGD	C4D-C3D	2.24	1.58	1.52
29	BA	413	SQD	C18-C17	-2.24	1.39	1.51
30	BE	102	LMG	C1-C2	2.24	1.58	1.52
27	AC	516	DGD	C4D-C5D	2.24	1.57	1.53
27	AC	517	DGD	O3G-C1D	2.24	1.44	1.40
22	BB	605	CLA	CAA-CBA	-2.24	1.45	1.52
26	BZ	101	BCR	C35-C13	2.23	1.55	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AB	603	CLA	CHC-C1C	2.23	1.40	1.35
22	BB	610	CLA	C1C-C2C	2.23	1.48	1.44
22	BB	610	CLA	C1-C2	2.23	1.55	1.49
27	BD	410	DGD	O1G-C1A	2.23	1.39	1.33
22	AD	404	CLA	C4C-C3C	2.23	1.48	1.45
26	BZ	101	BCR	C38-C26	2.23	1.54	1.50
22	BC	513	CLA	C1B-CHB	-2.23	1.34	1.41
26	BC	514	BCR	C38-C26	2.22	1.54	1.50
32	AT	101	LMT	C3'-C4'	2.22	1.58	1.52
27	BH	101	DGD	O6D-C5D	2.22	1.49	1.44
22	BB	607	CLA	C1B-CHB	-2.22	1.34	1.41
22	BB	611	CLA	C1D-C2D	-2.22	1.40	1.45
34	AE	101	HEM	CAD-C3D	-2.22	1.45	1.51
30	BM	102	LMG	C4-C3	2.21	1.58	1.52
22	BB	618	CLA	C1B-NB	2.21	1.37	1.35
22	AB	601	CLA	C4-C3	2.21	1.56	1.50
26	AB	617	BCR	C23-C22	-2.21	1.41	1.45
27	BC	518	DGD	C4E-C3E	2.21	1.58	1.52
27	BB	602	DGD	C1D-C2D	2.21	1.58	1.52
22	AC	510	CLA	MG-NC	2.21	2.11	2.06
22	AB	610	CLA	CAA-C2A	2.21	1.58	1.54
29	AD	409	SQD	C8-C7	2.20	1.57	1.50
22	AB	609	CLA	C1C-C2C	2.20	1.48	1.44
22	AA	406	CLA	C1D-ND	-2.20	1.35	1.37
22	AA	406	CLA	MG-NC	2.20	2.11	2.06
22	AC	510	CLA	C1C-C2C	2.20	1.48	1.44
22	BC	512	CLA	C1B-CHB	-2.20	1.34	1.41
23	AA	405	PHO	CAA-CBA	-2.20	1.46	1.52
22	AB	603	CLA	C5-C3	2.20	1.55	1.51
22	BA	404	CLA	C1D-ND	-2.19	1.35	1.37
34	BV	201	HEM	CAD-C3D	-2.19	1.45	1.51
32	AM	102	LMT	O5'-C1'	2.19	1.47	1.41
26	AZ	101	BCR	C38-C26	2.19	1.54	1.50
30	AB	623	LMG	C1-C2	2.19	1.58	1.52
29	BD	409	SQD	C44-C45	2.19	1.57	1.50
22	AB	607	CLA	MG-NC	2.19	2.11	2.06
22	BD	404	CLA	C5-C3	2.19	1.55	1.51
22	BC	503	CLA	C1B-CHB	-2.19	1.34	1.41
27	AA	410	DGD	O2G-C1B	2.18	1.40	1.34
32	BM	101	LMT	O5'-C1'	2.18	1.47	1.41
29	AA	412	SQD	C18-C17	-2.18	1.39	1.51
29	AD	409	SQD	C17-C16	-2.18	1.36	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	AB	625	LMT	O5B-C5B	2.18	1.49	1.44
29	BA	401	SQD	C34-C33	-2.18	1.39	1.51
32	AT	101	LMT	O1B-C4'	2.18	1.49	1.43
22	BB	612	CLA	C1B-CHB	-2.18	1.34	1.41
26	AB	619	BCR	C24-C23	2.17	1.39	1.33
22	BC	511	CLA	C1C-C2C	2.17	1.48	1.44
22	BB	604	CLA	C1-C2	2.17	1.55	1.49
22	AC	510	CLA	CAA-CBA	-2.17	1.46	1.52
22	BB	616	CLA	C1D-ND	-2.17	1.35	1.37
22	AA	404	CLA	C4B-NB	2.17	1.37	1.35
32	BI	102	LMT	C4B-C5B	2.17	1.57	1.53
22	AB	601	CLA	CAA-C2A	2.17	1.58	1.54
30	BI	101	LMG	O1-C1	2.17	1.43	1.40
32	BT	101	LMT	O1B-C1B	2.17	1.47	1.41
32	AI	102	LMT	C4B-C5B	2.16	1.57	1.53
22	BC	510	CLA	C1D-ND	-2.16	1.35	1.37
34	BV	201	HEM	C2A-C3A	2.16	1.44	1.37
32	AB	625	LMT	C4'-C5'	2.16	1.58	1.52
29	BL	101	SQD	C21-C20	-2.16	1.36	1.51
27	BB	602	DGD	O5D-C6D	2.16	1.47	1.43
34	BE	101	HEM	CAD-C3D	-2.15	1.45	1.51
32	BB	603	LMT	C3'-C4'	2.15	1.58	1.52
22	BC	504	CLA	C1B-NB	2.15	1.37	1.35
32	AB	624	LMT	C6'-C5'	2.15	1.59	1.51
32	BB	603	LMT	C1B-C2B	2.15	1.58	1.52
26	BC	515	BCR	C19-C18	-2.15	1.41	1.45
22	AC	505	CLA	C1D-ND	-2.15	1.35	1.37
29	BB	601	SQD	C21-C20	-2.15	1.36	1.51
29	AF	101	SQD	C13-C12	-2.14	1.39	1.51
27	AA	410	DGD	O6E-C5E	2.14	1.49	1.44
22	BB	606	CLA	CHC-C1C	2.14	1.40	1.35
34	BV	201	HEM	CMB-C2B	2.14	1.55	1.50
22	BA	404	CLA	CHC-C1C	2.14	1.40	1.35
29	BA	401	SQD	C8-C7	2.14	1.57	1.50
22	BC	505	CLA	C1C-C2C	2.14	1.48	1.44
22	AB	614	CLA	CMD-C2D	2.14	1.55	1.50
22	BC	513	CLA	C4-C3	2.14	1.56	1.50
22	BC	505	CLA	C1B-CHB	-2.14	1.35	1.41
30	BC	519	LMG	O7-C10	2.14	1.40	1.34
22	AB	614	CLA	C1C-C2C	2.14	1.48	1.44
27	BC	516	DGD	C4E-C5E	2.14	1.57	1.53
22	AC	503	CLA	C1C-C2C	2.13	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	BH	101	DGD	C4E-C5E	2.13	1.57	1.53
22	BD	402	CLA	C1C-C2C	2.13	1.48	1.44
22	AC	505	CLA	C1B-NB	2.13	1.37	1.35
22	BB	617	CLA	C1D-ND	-2.13	1.35	1.37
27	BB	602	DGD	C3D-C2D	2.13	1.57	1.52
22	AB	609	CLA	C1B-CHB	-2.13	1.35	1.41
22	AB	604	CLA	C1D-ND	-2.13	1.35	1.37
22	BB	617	CLA	C1-C2	2.12	1.55	1.49
32	AB	624	LMT	C3B-C2B	2.12	1.57	1.52
22	BB	607	CLA	C4-C3	2.12	1.56	1.50
22	AB	614	CLA	C1-C2	2.12	1.55	1.49
32	BB	625	LMT	C6'-C5'	2.11	1.58	1.51
22	BB	619	CLA	C1-C2	2.11	1.55	1.49
22	BC	510	CLA	C4-C3	2.11	1.56	1.50
27	BC	517	DGD	C4E-C3E	2.11	1.57	1.52
22	AC	512	CLA	C1C-C2C	2.11	1.48	1.44
26	BX	101	BCR	C5-C6	2.11	1.38	1.34
27	AH	102	DGD	C3D-C2D	2.11	1.57	1.52
22	BC	507	CLA	C4C-C3C	2.11	1.48	1.45
32	BT	101	LMT	O1B-C4'	2.11	1.49	1.43
28	BA	412	LHG	O8-C6	-2.10	1.40	1.45
22	AB	607	CLA	C1-C2	2.10	1.55	1.49
23	BA	406	PHO	CAC-C3C	-2.10	1.48	1.52
26	BD	406	BCR	C19-C18	-2.10	1.41	1.45
22	BA	404	CLA	C5-C3	2.10	1.55	1.51
22	BB	606	CLA	C5-C3	2.10	1.55	1.51
22	BB	604	CLA	C5-C3	2.10	1.55	1.51
27	BH	101	DGD	O6D-C1D	2.10	1.47	1.41
22	BA	407	CLA	CAA-C2A	2.10	1.58	1.54
22	BB	604	CLA	C4-C3	2.10	1.56	1.50
27	BB	602	DGD	C1E-C2E	2.09	1.58	1.52
22	AB	616	CLA	C1-C2	2.09	1.55	1.49
22	AA	403	CLA	C1D-ND	-2.09	1.35	1.37
27	BA	411	DGD	O1G-C1A	2.09	1.39	1.33
22	BB	604	CLA	C3C-C2C	2.09	1.41	1.36
32	AD	411	LMT	C4B-C3B	2.09	1.57	1.52
22	AA	403	CLA	MG-NC	2.08	2.11	2.06
29	AF	101	SQD	C24-C23	2.08	1.56	1.50
22	AB	616	CLA	C4-C3	2.08	1.56	1.50
22	AC	507	CLA	C4-C3	2.08	1.56	1.50
22	AA	402	CLA	C1B-NB	2.08	1.37	1.35
22	AB	610	CLA	C1B-NB	2.08	1.37	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	BX	101	BCR	C14-C13	2.08	1.38	1.35
22	BC	512	CLA	C4-C3	2.08	1.56	1.50
23	BD	403	PHO	C4-C3	2.08	1.56	1.50
26	AC	514	BCR	C38-C26	2.08	1.54	1.50
22	AB	607	CLA	C5-C3	2.07	1.55	1.51
29	BB	601	SQD	C8-C7	2.07	1.56	1.50
22	AB	616	CLA	C2-C3	2.07	1.38	1.33
22	BB	613	CLA	C1C-C2C	2.07	1.48	1.44
32	AB	624	LMT	O5B-C5B	2.07	1.49	1.44
22	AB	611	CLA	CMD-C2D	2.07	1.55	1.50
22	BB	605	CLA	C1C-C2C	2.07	1.48	1.44
27	BA	411	DGD	O6D-C5D	2.07	1.49	1.44
22	AB	612	CLA	C1B-NB	2.06	1.37	1.35
22	BC	509	CLA	C4-C3	2.06	1.56	1.50
26	BC	514	BCR	C19-C18	-2.06	1.41	1.45
27	AH	102	DGD	O6D-C5D	2.06	1.49	1.44
29	AA	415	SQD	C24-C23	2.06	1.56	1.50
26	AJ	102	BCR	C32-C1	2.06	1.57	1.53
30	AA	413	LMG	C4-C3	2.06	1.57	1.52
30	AE	102	LMG	C4-C3	2.06	1.57	1.52
22	BA	403	CLA	C1C-C2C	2.06	1.48	1.44
30	AE	102	LMG	C4-C5	2.06	1.57	1.53
22	BD	402	CLA	CAA-CBA	-2.05	1.46	1.52
22	BA	404	CLA	C1B-NB	2.05	1.37	1.35
22	AC	503	CLA	C4C-C3C	2.05	1.48	1.45
22	AC	507	CLA	CHD-C1D	2.05	1.42	1.38
30	BM	102	LMG	C11-C10	2.05	1.56	1.50
22	BC	511	CLA	C1B-CHB	-2.05	1.35	1.41
32	BB	603	LMT	O1B-C4'	2.05	1.49	1.43
32	BT	101	LMT	O5B-C5B	2.05	1.49	1.44
29	AA	412	SQD	C8-C7	2.04	1.56	1.50
22	AB	614	CLA	C1D-ND	-2.04	1.35	1.37
22	BB	615	CLA	C4-C3	2.04	1.55	1.50
30	AM	101	LMG	C1-C2	2.04	1.58	1.52
26	AJ	102	BCR	C3-C4	2.04	1.58	1.52
26	BB	622	BCR	C33-C5	2.04	1.54	1.50
30	AB	623	LMG	O8-C28	2.04	1.39	1.33
22	AC	509	CLA	C4C-C3C	2.04	1.48	1.45
30	BC	520	LMG	C29-C28	2.04	1.56	1.50
27	AB	626	DGD	O1G-C1A	2.04	1.39	1.33
22	BB	613	CLA	CAA-CBA	-2.04	1.46	1.52
22	AC	502	CLA	C1D-C2D	-2.04	1.41	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	AB	625	LMT	O1B-C1B	2.04	1.47	1.41
32	BM	101	LMT	O5B-C1B	2.04	1.47	1.41
32	AB	627	LMT	C4B-C5B	2.04	1.57	1.53
22	BB	613	CLA	C4-C3	2.03	1.55	1.50
29	AA	412	SQD	C34-C33	-2.03	1.37	1.51
22	AC	501	CLA	C1B-NB	2.03	1.37	1.35
27	AA	410	DGD	O1G-C1A	2.03	1.39	1.33
30	AC	520	LMG	O1-C1	2.03	1.43	1.40
22	BB	616	CLA	CBA-CGA	-2.03	1.44	1.50
22	BD	404	CLA	CHD-C1D	2.03	1.42	1.38
22	BB	609	CLA	CMD-C2D	2.03	1.55	1.50
22	AC	511	CLA	C4-C3	2.03	1.55	1.50
29	BA	401	SQD	C44-C45	2.03	1.56	1.50
22	AB	616	CLA	C5-C3	2.03	1.55	1.51
22	AB	604	CLA	C1C-C2C	2.03	1.48	1.44
22	AC	508	CLA	C1D-ND	-2.02	1.35	1.37
22	BC	503	CLA	CHD-C1D	2.02	1.42	1.38
22	BC	506	CLA	C4-C3	2.02	1.55	1.50
22	BC	512	CLA	CMD-C2D	2.02	1.55	1.50
22	AB	601	CLA	C3C-C2C	2.02	1.41	1.36
34	AV	201	HEM	C3D-C2D	2.02	1.41	1.36
32	BB	626	LMT	O1B-C1B	2.02	1.47	1.41
26	AC	514	BCR	C19-C18	-2.02	1.41	1.45
26	AB	620	BCR	C23-C22	-2.01	1.41	1.45
22	AC	504	CLA	C4-C3	2.01	1.55	1.50
22	BB	614	CLA	CMD-C2D	2.01	1.55	1.50
22	AC	512	CLA	CMB-C2B	2.01	1.55	1.51
30	AB	622	LMG	O7-C10	2.01	1.40	1.34
32	AB	624	LMT	C1B-C2B	2.01	1.58	1.52
26	AB	617	BCR	C38-C26	2.01	1.54	1.50
30	BD	408	LMG	O7-C10	2.01	1.40	1.34
22	AC	512	CLA	CAA-C2A	2.01	1.57	1.54
22	BD	404	CLA	C1C-C2C	2.01	1.48	1.44
26	BJ	102	BCR	C33-C5	2.01	1.54	1.50
22	BB	604	CLA	CAA-C2A	2.01	1.57	1.54
22	BB	608	CLA	C1D-ND	-2.01	1.35	1.37
22	AB	601	CLA	C1D-C2D	-2.00	1.41	1.45
22	AA	404	CLA	C4-C3	2.00	1.55	1.50
22	BA	403	CLA	CHD-C1D	2.00	1.42	1.38
22	BD	402	CLA	C4C-C3C	2.00	1.48	1.45

All (1833) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	604	CLA	C4A-NA-C1A	13.27	112.67	106.71
22	BB	607	CLA	C4A-NA-C1A	13.12	112.61	106.71
22	AC	508	CLA	C4A-NA-C1A	13.02	112.56	106.71
22	BC	511	CLA	C4A-NA-C1A	12.89	112.50	106.71
22	AC	503	CLA	C4A-NA-C1A	12.83	112.47	106.71
22	AC	511	CLA	C4A-NA-C1A	12.73	112.43	106.71
22	AB	615	CLA	C4A-NA-C1A	12.44	112.30	106.71
22	AB	601	CLA	C4A-NA-C1A	12.43	112.30	106.71
22	BB	604	CLA	C4A-NA-C1A	12.42	112.29	106.71
22	BB	618	CLA	C4A-NA-C1A	12.42	112.29	106.71
22	BC	505	CLA	C4A-NA-C1A	12.39	112.28	106.71
22	BC	508	CLA	C4A-NA-C1A	12.36	112.26	106.71
22	BC	503	CLA	C4A-NA-C1A	12.34	112.26	106.71
22	BC	512	CLA	C4A-NA-C1A	12.17	112.18	106.71
22	BC	502	CLA	C4A-NA-C1A	12.11	112.15	106.71
22	BC	513	CLA	C4A-NA-C1A	12.08	112.14	106.71
22	AD	402	CLA	C4A-NA-C1A	12.07	112.13	106.71
22	BB	610	CLA	C4A-NA-C1A	12.07	112.13	106.71
22	BD	402	CLA	C4A-NA-C1A	12.01	112.11	106.71
22	AC	513	CLA	C4A-NA-C1A	11.97	112.09	106.71
22	AC	506	CLA	C4A-NA-C1A	11.95	112.08	106.71
22	AB	614	CLA	C4A-NA-C1A	11.91	112.06	106.71
22	AC	512	CLA	C4A-NA-C1A	11.89	112.05	106.71
22	BB	619	CLA	C4A-NA-C1A	11.83	112.03	106.71
22	AC	507	CLA	C4A-NA-C1A	11.82	112.02	106.71
22	BC	501	CLA	C4A-NA-C1A	11.82	112.02	106.71
22	BB	609	CLA	C4A-NA-C1A	11.78	112.00	106.71
22	BD	404	CLA	C4A-NA-C1A	11.78	112.00	106.71
22	AC	505	CLA	C4A-NA-C1A	11.78	112.00	106.71
22	AD	404	CLA	C4A-NA-C1A	11.74	111.98	106.71
22	AB	607	CLA	C4A-NA-C1A	11.72	111.97	106.71
22	BC	506	CLA	C4A-NA-C1A	11.71	111.97	106.71
22	BC	507	CLA	C4A-NA-C1A	11.70	111.96	106.71
22	AC	501	CLA	C4A-NA-C1A	11.60	111.92	106.71
22	BB	617	CLA	C4A-NA-C1A	11.60	111.92	106.71
22	AB	610	CLA	C4A-NA-C1A	11.55	111.90	106.71
22	BA	405	CLA	C4A-NA-C1A	11.53	111.89	106.71
22	AC	502	CLA	C4A-NA-C1A	11.52	111.89	106.71
22	BB	615	CLA	C4A-NA-C1A	11.49	111.87	106.71
22	BC	509	CLA	C4A-NA-C1A	11.48	111.87	106.71
22	AB	613	CLA	C4A-NA-C1A	11.47	111.86	106.71
22	AB	606	CLA	C4A-NA-C1A	11.44	111.85	106.71
22	BB	613	CLA	C4A-NA-C1A	11.41	111.83	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BB	612	CLA	C4A-NA-C1A	11.30	111.78	106.71
22	BC	504	CLA	C4A-NA-C1A	11.25	111.76	106.71
22	AB	616	CLA	C4A-NA-C1A	11.22	111.75	106.71
22	AA	402	CLA	C4A-NA-C1A	11.20	111.74	106.71
22	BB	608	CLA	C4A-NA-C1A	11.17	111.73	106.71
22	AB	612	CLA	C4A-NA-C1A	11.15	111.72	106.71
22	BA	403	CLA	C4A-NA-C1A	11.14	111.71	106.71
22	AA	404	CLA	C4A-NA-C1A	11.12	111.71	106.71
22	AC	509	CLA	C4A-NA-C1A	11.09	111.69	106.71
22	BB	616	CLA	C4A-NA-C1A	11.08	111.69	106.71
22	AB	605	CLA	C4A-NA-C1A	11.06	111.68	106.71
22	AB	611	CLA	C4A-NA-C1A	11.03	111.66	106.71
22	AC	504	CLA	C4A-NA-C1A	11.01	111.66	106.71
22	AB	603	CLA	C4A-NA-C1A	10.99	111.65	106.71
22	BC	510	CLA	C4A-NA-C1A	10.99	111.64	106.71
22	AB	608	CLA	C4A-NA-C1A	10.97	111.64	106.71
22	AB	609	CLA	C4A-NA-C1A	10.85	111.58	106.71
22	BB	606	CLA	C4A-NA-C1A	10.78	111.55	106.71
22	AA	406	CLA	C4A-NA-C1A	10.78	111.55	106.71
22	BA	404	CLA	C4A-NA-C1A	10.76	111.54	106.71
22	BB	611	CLA	C4A-NA-C1A	10.73	111.53	106.71
22	AC	510	CLA	C4A-NA-C1A	10.55	111.45	106.71
22	BA	407	CLA	C4A-NA-C1A	10.46	111.41	106.71
22	BB	614	CLA	C4A-NA-C1A	10.45	111.40	106.71
26	AJ	102	BCR	C32-C1-C6	-10.00	94.07	110.30
22	AB	602	CLA	C4A-NA-C1A	9.91	111.16	106.71
22	AA	403	CLA	C4A-NA-C1A	9.87	111.14	106.71
26	BJ	102	BCR	C32-C1-C6	-9.85	94.32	110.30
22	BB	605	CLA	C4A-NA-C1A	9.71	111.07	106.71
26	BJ	102	BCR	C32-C1-C31	-9.64	78.96	108.53
26	AJ	102	BCR	C32-C1-C31	-9.32	79.94	108.53
29	AF	101	SQD	O5-C1-O6	9.21	131.79	109.97
29	BF	101	SQD	O5-C1-O6	9.14	131.61	109.97
29	AD	409	SQD	O7-S-C6	9.13	117.79	106.94
29	BD	409	SQD	O7-S-C6	9.00	117.63	106.94
34	BE	101	HEM	CAD-C3D-C2D	8.64	143.98	127.88
29	AA	415	SQD	O5-C1-O6	8.56	130.25	109.97
34	AE	101	HEM	CAD-C3D-C2D	8.56	143.81	127.88
29	AD	409	SQD	O5-C1-O6	8.53	130.18	109.97
29	BD	409	SQD	O5-C1-O6	8.45	129.98	109.97
29	AA	412	SQD	O5-C1-O6	8.43	129.94	109.97
29	AA	412	SQD	O7-S-C6	8.40	116.93	106.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BA	413	SQD	O5-C1-O6	8.37	129.80	109.97
29	BA	401	SQD	O5-C1-O6	8.37	129.78	109.97
29	BA	413	SQD	O7-S-C6	7.96	116.40	106.94
29	BB	601	SQD	O5-C1-O6	7.95	128.79	109.97
29	BL	101	SQD	O7-S-C6	7.94	116.37	106.94
29	BL	101	SQD	O5-C1-O6	7.90	128.68	109.97
34	BE	101	HEM	CAD-C3D-C4D	-7.83	110.97	124.66
29	AD	409	SQD	O6-C1-C2	7.76	120.42	108.30
34	AE	101	HEM	CAD-C3D-C4D	-7.70	111.20	124.66
29	BD	409	SQD	O6-C1-C2	7.64	120.24	108.30
29	BB	601	SQD	O7-S-C6	7.63	116.00	106.94
29	BB	601	SQD	O6-C1-C2	7.63	120.21	108.30
29	AF	101	SQD	O7-S-C6	7.55	115.91	106.94
27	BC	517	DGD	O6E-C5E-C4E	7.51	123.34	109.69
27	AC	517	DGD	O6E-C5E-C4E	7.51	123.33	109.69
34	AV	201	HEM	CAD-C3D-C2D	7.50	141.84	127.88
27	BA	411	DGD	O6E-C5E-C4E	7.46	123.25	109.69
27	AA	410	DGD	O6E-C5E-C4E	7.45	123.23	109.69
27	AH	102	DGD	O6E-C5E-C4E	7.42	123.17	109.69
34	BV	201	HEM	CAD-C3D-C2D	7.42	141.69	127.88
29	BL	101	SQD	O6-C1-C2	7.36	119.80	108.30
29	BA	401	SQD	O7-S-C6	7.35	115.68	106.94
29	BF	101	SQD	O7-S-C6	7.29	115.60	106.94
27	BH	101	DGD	O6E-C5E-C4E	7.26	122.88	109.69
27	BC	516	DGD	O6E-C5E-C4E	7.15	122.67	109.69
27	BD	410	DGD	O6E-C5E-C4E	7.14	122.66	109.69
27	BC	518	DGD	O6E-C5E-C4E	7.13	122.65	109.69
27	AB	626	DGD	O6E-C5E-C4E	7.11	122.61	109.69
29	AA	415	SQD	O7-S-C6	7.10	115.38	106.94
27	AD	410	DGD	O6E-C5E-C4E	7.10	122.59	109.69
29	BA	401	SQD	O6-C1-C2	7.10	119.39	108.30
26	AJ	102	BCR	C32-C1-C2	-7.06	80.67	108.91
26	AJ	102	BCR	C2-C1-C6	7.04	121.32	110.48
27	BB	602	DGD	O6E-C5E-C4E	7.02	122.44	109.69
26	BJ	102	BCR	C32-C1-C2	-6.98	80.97	108.91
27	AC	518	DGD	O6E-C5E-C4E	6.97	122.36	109.69
26	BX	101	BCR	C38-C26-C25	6.94	132.32	124.53
29	AA	415	SQD	O6-C1-C2	6.93	119.12	108.30
29	BA	413	SQD	O6-C1-C2	6.91	119.08	108.30
29	AA	412	SQD	O6-C1-C2	6.90	119.08	108.30
27	AC	516	DGD	O6E-C5E-C4E	6.84	122.12	109.69
26	BJ	102	BCR	C2-C1-C6	6.83	120.99	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AJ	102	BCR	C38-C26-C25	6.79	132.16	124.53
26	BJ	102	BCR	C38-C26-C25	6.77	132.13	124.53
26	BJ	102	BCR	C33-C5-C6	6.75	132.11	124.53
26	AH	101	BCR	C38-C26-C25	6.70	132.05	124.53
26	BD	406	BCR	C38-C26-C25	6.65	132.00	124.53
34	AV	201	HEM	CAD-C3D-C4D	-6.65	113.05	124.66
26	AJ	102	BCR	C33-C5-C6	6.63	131.97	124.53
26	AK	102	BCR	C33-C5-C6	6.60	131.94	124.53
34	BV	201	HEM	CAD-C3D-C4D	-6.60	113.13	124.66
29	AF	101	SQD	O6-C1-C2	6.57	118.56	108.30
26	AD	406	BCR	C38-C26-C25	6.54	131.88	124.53
29	BF	101	SQD	O6-C1-C2	6.48	118.42	108.30
29	BF	101	SQD	C10-C9-C8	6.43	136.31	113.19
29	AF	101	SQD	C10-C9-C8	6.42	136.26	113.19
29	AA	412	SQD	C10-C9-C8	6.40	136.20	113.19
26	BB	621	BCR	C38-C26-C25	6.38	131.69	124.53
29	BA	413	SQD	C10-C9-C8	6.36	136.06	113.19
26	AD	406	BCR	C33-C5-C6	6.30	131.60	124.53
26	BK	102	BCR	C33-C5-C6	6.25	131.55	124.53
28	BA	412	LHG	C25-C24-C23	6.25	136.36	113.62
28	AA	411	LHG	C25-C24-C23	6.24	136.33	113.62
29	BB	601	SQD	C10-C9-C8	6.24	135.62	113.19
29	AD	409	SQD	O8-S-C6	-6.15	95.95	105.74
29	AD	409	SQD	C10-C9-C8	6.10	135.12	113.19
29	BL	101	SQD	C10-C9-C8	6.09	135.09	113.19
26	AB	619	BCR	C38-C26-C25	6.08	131.36	124.53
29	AA	415	SQD	C10-C9-C8	6.06	134.98	113.19
29	BD	409	SQD	C10-C9-C8	6.06	134.96	113.19
29	BA	401	SQD	C10-C9-C8	5.95	134.57	113.19
26	AZ	101	BCR	C38-C26-C25	5.93	131.18	124.53
29	BA	401	SQD	C25-C24-C23	5.89	135.03	113.62
26	AT	102	BCR	C38-C26-C25	5.88	131.13	124.53
26	BD	406	BCR	C33-C5-C6	5.88	131.13	124.53
27	AC	517	DGD	O5D-C6D-C5D	5.86	119.90	109.05
26	AB	617	BCR	C38-C26-C25	5.86	131.10	124.53
29	AA	415	SQD	C25-C24-C23	5.84	134.88	113.62
32	BB	625	LMT	C1-O1'-C1'	-5.83	104.17	113.84
26	BC	515	BCR	C33-C5-C6	5.82	131.06	124.53
29	BF	101	SQD	C25-C24-C23	5.81	134.74	113.62
29	BA	413	SQD	C25-C24-C23	5.80	134.72	113.62
26	BZ	101	BCR	C38-C26-C25	5.77	131.01	124.53
26	AT	102	BCR	C33-C5-C6	5.77	131.00	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	BC	517	DGD	O5D-C6D-C5D	5.76	119.71	109.05
29	AA	412	SQD	C25-C24-C23	5.73	134.46	113.62
29	BD	409	SQD	O8-S-C6	-5.73	96.62	105.74
26	AB	620	BCR	C38-C26-C25	5.72	130.95	124.53
32	AB	624	LMT	C1-O1'-C1'	-5.71	104.38	113.84
26	AC	515	BCR	C33-C5-C6	5.68	130.91	124.53
24	BD	405	PL9	C7-C3-C4	5.68	121.50	116.88
26	AB	618	BCR	C33-C5-C6	5.65	130.87	124.53
29	BL	101	SQD	C25-C24-C23	5.65	134.16	113.62
26	AC	515	BCR	C38-C26-C25	5.64	130.86	124.53
29	BB	601	SQD	C25-C24-C23	5.62	134.05	113.62
29	AF	101	SQD	C25-C24-C23	5.61	134.03	113.62
29	AA	412	SQD	O8-S-C6	-5.61	96.80	105.74
26	AB	618	BCR	C38-C26-C25	5.60	130.82	124.53
24	AD	405	PL9	C7-C3-C4	5.58	121.41	116.88
26	BB	620	BCR	C33-C5-C6	5.57	130.78	124.53
26	BC	515	BCR	C38-C26-C25	5.56	130.77	124.53
29	AD	409	SQD	C25-C24-C23	5.54	133.76	113.62
26	BB	620	BCR	C38-C26-C25	5.53	130.74	124.53
26	BC	514	BCR	C38-C26-C25	5.50	130.71	124.53
29	BD	409	SQD	C25-C24-C23	5.49	133.58	113.62
26	AB	617	BCR	C33-C5-C6	5.46	130.66	124.53
26	AK	102	BCR	C7-C8-C9	5.45	134.46	126.23
26	AC	514	BCR	C38-C26-C25	5.42	130.61	124.53
26	BK	102	BCR	C7-C8-C9	5.41	134.41	126.23
26	AB	619	BCR	C33-C5-C6	5.38	130.57	124.53
26	AB	620	BCR	C33-C5-C6	5.37	130.56	124.53
26	BB	622	BCR	C33-C5-C6	5.36	130.54	124.53
26	BB	622	BCR	C38-C26-C25	5.33	130.51	124.53
26	AJ	102	BCR	C23-C24-C25	5.33	142.16	127.20
26	BB	621	BCR	C33-C5-C6	5.29	130.47	124.53
26	AC	514	BCR	C33-C5-C6	5.26	130.44	124.53
26	AA	409	BCR	C33-C5-C6	5.26	130.43	124.53
29	BF	101	SQD	C44-O6-C1	5.25	124.00	113.74
26	BJ	102	BCR	C23-C24-C25	5.23	141.90	127.20
29	BA	413	SQD	O8-S-C6	-5.19	97.48	105.74
26	BA	410	BCR	C33-C5-C6	5.17	130.34	124.53
26	BA	410	BCR	C38-C26-C25	5.17	130.34	124.53
29	AF	101	SQD	C44-O6-C1	5.17	123.83	113.74
34	BE	101	HEM	CHA-C4D-ND	5.16	130.76	124.38
26	AK	102	BCR	C11-C10-C9	5.15	134.66	127.31
26	BK	102	BCR	C11-C10-C9	5.13	134.63	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AA	409	BCR	C38-C26-C25	5.08	130.23	124.53
26	AZ	101	BCR	C33-C5-C6	5.07	130.22	124.53
26	BC	514	BCR	C33-C5-C6	5.05	130.20	124.53
34	AE	101	HEM	CHA-C4D-ND	5.03	130.60	124.38
34	AV	201	HEM	CHA-C4D-ND	4.96	130.51	124.38
26	BK	102	BCR	C38-C26-C25	4.93	130.06	124.53
26	BJ	102	BCR	C31-C1-C6	4.93	118.29	110.30
26	AJ	102	BCR	C8-C7-C6	4.92	141.01	127.20
29	AF	101	SQD	O8-S-C6	-4.89	97.96	105.74
24	AJ	101	PL9	C7-C3-C4	4.84	120.81	116.88
26	AJ	102	BCR	C31-C1-C6	4.83	118.14	110.30
26	BZ	101	BCR	C33-C5-C6	4.83	129.95	124.53
26	BJ	102	BCR	C8-C7-C6	4.82	140.74	127.20
29	BF	101	SQD	O8-S-C6	-4.80	98.09	105.74
34	BV	201	HEM	CHA-C4D-ND	4.79	130.31	124.38
29	BA	401	SQD	O8-S-C6	-4.77	98.14	105.74
27	BC	517	DGD	C3G-O3G-C1D	-4.76	104.44	113.74
27	AC	517	DGD	C3G-O3G-C1D	-4.75	104.47	113.74
27	AD	410	DGD	O3G-C1D-C2D	4.73	115.68	108.30
27	BD	410	DGD	O3G-C1D-C2D	4.73	115.68	108.30
29	AA	415	SQD	O8-S-C6	-4.72	98.21	105.74
27	AB	626	DGD	O5D-C1E-C2E	4.72	115.68	108.30
29	BD	409	SQD	C44-O6-C1	4.70	122.92	113.74
34	BV	201	HEM	C4C-CHD-C1D	4.64	128.68	122.56
26	AK	102	BCR	C38-C26-C25	4.62	129.72	124.53
26	AJ	102	BCR	C38-C26-C27	-4.62	104.74	113.62
29	BB	601	SQD	O8-S-C6	-4.62	98.38	105.74
26	BJ	102	BCR	C38-C26-C27	-4.61	104.75	113.62
26	BX	101	BCR	C33-C5-C6	4.60	129.70	124.53
26	AH	101	BCR	C33-C5-C6	4.60	129.69	124.53
29	BL	101	SQD	O8-S-C6	-4.56	98.48	105.74
24	BJ	101	PL9	C7-C3-C4	4.53	120.56	116.88
34	AV	201	HEM	C4C-CHD-C1D	4.53	128.54	122.56
34	AE	101	HEM	C4C-CHD-C1D	4.49	128.49	122.56
26	AK	102	BCR	C2-C1-C6	4.48	117.38	110.48
34	BE	101	HEM	C4C-CHD-C1D	4.46	128.45	122.56
27	AC	516	DGD	O5D-C1E-C2E	4.42	115.20	108.30
22	AA	403	CLA	CAA-C2A-C3A	-4.39	100.76	112.78
29	BA	401	SQD	C44-O6-C1	4.36	122.25	113.74
29	AD	409	SQD	C44-O6-C1	4.36	122.25	113.74
26	AK	102	BCR	C33-C5-C4	-4.34	105.28	113.62
26	AD	406	BCR	C38-C26-C27	-4.32	105.32	113.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AA	415	SQD	C44-O6-C1	4.32	122.17	113.74
27	BA	411	DGD	O5D-C6D-C5D	4.30	117.00	109.05
26	BD	406	BCR	C38-C26-C27	-4.29	105.38	113.62
27	BB	602	DGD	O5D-C1E-C2E	4.26	114.95	108.30
24	AA	407	PL9	C7-C8-C9	-4.25	119.71	126.79
26	BK	102	BCR	C2-C1-C6	4.24	117.01	110.48
26	BK	102	BCR	C33-C5-C4	-4.24	105.48	113.62
22	BA	404	CLA	CAA-C2A-C3A	-4.22	101.22	112.78
26	BB	621	BCR	C38-C26-C27	-4.20	105.54	113.62
26	AJ	102	BCR	C1-C6-C5	-4.19	116.71	122.61
26	BX	101	BCR	C38-C26-C27	-4.16	105.61	113.62
26	AD	406	BCR	C33-C5-C4	-4.16	105.62	113.62
27	BC	517	DGD	O2G-C1B-C2B	4.16	120.46	111.50
26	AH	101	BCR	C38-C26-C27	-4.16	105.63	113.62
26	AB	619	BCR	C38-C26-C27	-4.16	105.63	113.62
29	BL	101	SQD	O9-S-C6	-4.14	102.02	106.94
26	AT	102	BCR	C38-C26-C27	-4.13	105.68	113.62
27	AA	410	DGD	O5D-C6D-C5D	4.13	116.69	109.05
30	AM	101	LMG	O7-C10-C11	4.08	120.28	111.50
26	AT	102	BCR	C29-C30-C25	4.06	116.73	110.48
28	BC	521	LHG	O7-C7-C8	4.04	120.21	111.50
26	BK	102	BCR	C8-C9-C10	-4.04	112.74	118.94
26	BD	406	BCR	C24-C23-C22	4.04	132.34	126.23
29	BD	409	SQD	O9-S-C6	-4.03	102.15	106.94
28	AC	521	LHG	O7-C7-C8	4.02	120.17	111.50
26	BC	515	BCR	C29-C30-C25	4.02	116.67	110.48
30	BM	102	LMG	O7-C10-C11	4.01	120.15	111.50
27	AC	517	DGD	O2G-C1B-C2B	4.01	120.15	111.50
34	BE	101	HEM	CBD-CAD-C3D	-4.01	101.50	112.63
29	BA	413	SQD	O9-S-C6	-4.00	102.18	106.94
23	AA	405	PHO	O2D-CGD-CBD	3.99	116.06	111.00
26	AB	618	BCR	C33-C5-C4	-3.98	105.97	113.62
26	AC	515	BCR	C38-C26-C27	-3.98	105.97	113.62
26	BD	406	BCR	C29-C30-C25	3.97	116.60	110.48
26	BJ	102	BCR	C33-C5-C4	-3.97	105.99	113.62
26	AZ	101	BCR	C23-C24-C25	3.97	138.34	127.20
26	AC	514	BCR	C33-C5-C4	-3.96	106.00	113.62
27	AB	626	DGD	O2G-C1B-C2B	3.95	120.02	111.50
26	AC	515	BCR	C29-C30-C25	3.95	116.56	110.48
26	BX	101	BCR	C24-C23-C22	3.94	132.19	126.23
26	AB	620	BCR	C38-C26-C27	-3.94	106.05	113.62
26	BJ	102	BCR	C1-C6-C5	-3.93	117.07	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AB	618	BCR	C29-C30-C25	3.93	116.53	110.48
24	BA	408	PL9	C7-C8-C9	-3.92	120.26	126.79
26	AK	102	BCR	C8-C9-C10	-3.92	112.93	118.94
27	AC	518	DGD	O6D-C5D-C6D	3.92	114.57	106.67
26	AB	618	BCR	C38-C26-C27	-3.92	106.09	113.62
26	AD	406	BCR	C29-C30-C25	3.91	116.50	110.48
29	BA	401	SQD	O48-C23-C24	3.90	124.16	111.91
26	BC	515	BCR	C38-C26-C27	-3.90	106.12	113.62
26	BJ	102	BCR	C16-C15-C14	3.90	131.46	123.47
22	BC	503	CLA	C1-C2-C3	3.90	132.78	126.04
26	AT	102	BCR	C33-C5-C4	-3.89	106.14	113.62
26	BB	622	BCR	C29-C30-C25	3.89	116.47	110.48
26	AJ	102	BCR	C29-C30-C25	3.89	116.47	110.48
27	BC	516	DGD	O5D-C1E-C2E	3.89	114.37	108.30
29	BB	601	SQD	O48-C23-C24	3.89	124.10	111.91
34	AE	101	HEM	CBD-CAD-C3D	-3.88	101.85	112.63
29	BA	401	SQD	O9-S-C6	-3.87	102.34	106.94
26	BD	406	BCR	C33-C5-C4	-3.87	106.18	113.62
26	BB	620	BCR	C38-C26-C27	-3.86	106.21	113.62
29	AA	415	SQD	O48-C23-C24	3.85	124.00	111.91
26	BZ	101	BCR	C23-C24-C25	3.85	138.02	127.20
32	AT	101	LMT	C1-O1'-C1'	-3.85	107.45	113.84
26	AH	101	BCR	C24-C23-C22	3.85	132.04	126.23
22	AC	503	CLA	C1-C2-C3	3.83	132.67	126.04
32	AI	102	LMT	C1-O1'-C1'	-3.83	107.49	113.84
26	AB	619	BCR	C33-C5-C4	-3.83	106.27	113.62
26	BC	515	BCR	C33-C5-C4	-3.81	106.29	113.62
26	AJ	102	BCR	C16-C15-C14	3.81	131.28	123.47
23	AD	403	PHO	O2D-CGD-CBD	3.81	115.82	111.00
27	BB	602	DGD	O2G-C1B-C2B	3.81	119.71	111.50
26	BB	620	BCR	C33-C5-C4	-3.81	106.30	113.62
29	AA	412	SQD	C11-C10-C9	3.81	133.75	114.42
26	AC	515	BCR	C2-C1-C6	3.81	116.34	110.48
26	BB	621	BCR	C33-C5-C4	-3.80	106.31	113.62
29	BL	101	SQD	O48-C23-C24	3.80	123.84	111.91
26	AB	620	BCR	C33-C5-C4	-3.80	106.33	113.62
22	AA	403	CLA	CBA-CAA-C2A	3.79	125.05	113.86
29	BA	413	SQD	C11-C10-C9	3.78	133.61	114.42
26	AC	515	BCR	C33-C5-C4	-3.78	106.36	113.62
26	BC	514	BCR	C38-C26-C27	-3.78	106.36	113.62
32	BI	102	LMT	C1-O1'-C1'	-3.77	107.59	113.84
26	AB	619	BCR	C30-C25-C26	-3.76	117.31	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BC	514	BCR	C33-C5-C4	-3.76	106.39	113.62
26	AZ	101	BCR	C38-C26-C27	-3.75	106.41	113.62
26	AC	514	BCR	C38-C26-C27	-3.75	106.41	113.62
29	BF	101	SQD	O9-S-C6	-3.75	102.48	106.94
27	BC	518	DGD	O6D-C5D-C6D	3.75	114.23	106.67
23	AD	403	PHO	C7-C6-C5	-3.75	103.19	113.36
26	AA	409	BCR	C38-C26-C27	-3.74	106.43	113.62
22	BB	612	CLA	CED-O2D-CGD	3.72	124.36	115.94
27	AH	102	DGD	O5D-C1E-C2E	3.72	114.11	108.30
27	BB	602	DGD	C1E-O6E-C5E	3.72	120.99	113.69
29	BA	413	SQD	C31-C30-C29	3.72	133.32	114.42
27	AB	626	DGD	C1E-O6E-C5E	3.72	120.98	113.69
29	AA	412	SQD	C31-C30-C29	3.71	133.27	114.42
26	AD	406	BCR	C24-C23-C22	3.71	131.84	126.23
26	BK	102	BCR	C29-C30-C25	3.71	116.19	110.48
26	AB	617	BCR	C38-C26-C27	-3.71	106.49	113.62
24	AJ	101	PL9	C7-C8-C9	-3.70	120.63	126.79
26	AA	409	BCR	C33-C5-C4	-3.69	106.52	113.62
29	AA	415	SQD	C31-C30-C29	3.69	133.18	114.42
29	BD	409	SQD	C11-C10-C9	3.69	133.17	114.42
26	BJ	102	BCR	C29-C30-C25	3.69	116.16	110.48
26	AH	101	BCR	C29-C30-C25	3.69	116.16	110.48
26	BX	101	BCR	C29-C30-C25	3.69	116.16	110.48
26	AJ	102	BCR	C33-C5-C4	-3.69	106.53	113.62
23	BD	403	PHO	O2D-CGD-CBD	3.69	115.67	111.00
26	BK	102	BCR	C38-C26-C27	-3.68	106.54	113.62
27	AC	516	DGD	C1E-O6E-C5E	3.68	120.91	113.69
29	BB	601	SQD	O9-S-C6	-3.67	102.58	106.94
26	BB	622	BCR	C33-C5-C4	-3.67	106.57	113.62
24	BD	405	PL9	C7-C3-C2	-3.67	118.48	123.30
26	BB	621	BCR	C30-C25-C26	-3.66	117.45	122.61
26	BZ	101	BCR	C38-C26-C27	-3.66	106.59	113.62
26	AB	617	BCR	C33-C5-C4	-3.65	106.60	113.62
26	BB	622	BCR	C38-C26-C27	-3.64	106.61	113.62
26	AK	102	BCR	C29-C30-C25	3.64	116.09	110.48
26	BZ	101	BCR	C29-C30-C25	3.64	116.08	110.48
26	AK	102	BCR	C1-C6-C5	-3.63	117.49	122.61
30	AD	408	LMG	O6-C5-C6	3.63	115.47	106.44
29	AD	409	SQD	C11-C10-C9	3.63	132.86	114.42
29	BA	401	SQD	C11-C10-C9	3.63	132.86	114.42
29	AF	101	SQD	C11-C10-C9	3.63	132.85	114.42
22	BA	404	CLA	CBA-CAA-C2A	3.63	124.57	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	BH	101	DGD	O5D-C1E-C2E	3.62	113.96	108.30
29	BB	601	SQD	C11-C10-C9	3.62	132.81	114.42
26	BK	102	BCR	C1-C6-C5	-3.61	117.53	122.61
26	BA	410	BCR	C38-C26-C27	-3.61	106.68	113.62
26	AB	620	BCR	C29-C30-C25	3.61	116.04	110.48
26	AZ	101	BCR	C29-C30-C25	3.61	116.03	110.48
29	AA	415	SQD	C11-C10-C9	3.60	132.69	114.42
23	BA	406	PHO	O2D-CGD-CBD	3.60	115.55	111.00
29	BL	101	SQD	C11-C10-C9	3.59	132.66	114.42
26	BD	406	BCR	C30-C25-C26	-3.59	117.56	122.61
24	AJ	101	PL9	C10-C9-C11	3.59	121.30	115.27
24	AD	405	PL9	C7-C3-C2	-3.58	118.59	123.30
29	BA	401	SQD	C31-C30-C29	3.58	132.58	114.42
26	AA	409	BCR	C24-C23-C22	3.57	131.63	126.23
27	BH	101	DGD	O6D-C5D-C6D	3.57	113.87	106.67
26	BB	622	BCR	C2-C1-C6	3.57	115.97	110.48
27	AC	518	DGD	C1E-O6E-C5E	3.56	120.68	113.69
26	AD	406	BCR	C30-C25-C26	-3.56	117.60	122.61
22	AB	609	CLA	CED-O2D-CGD	3.56	123.99	115.94
26	AH	101	BCR	C30-C25-C26	-3.56	117.60	122.61
29	BF	101	SQD	C11-C10-C9	3.56	132.49	114.42
26	BB	621	BCR	C29-C30-C25	3.56	115.96	110.48
29	AD	409	SQD	O48-C23-C24	3.56	123.07	111.91
22	BB	619	CLA	CAA-C2A-C3A	-3.55	103.04	112.78
29	AD	409	SQD	O9-S-C6	-3.55	102.72	106.94
32	BT	101	LMT	C1-O1'-C1'	-3.55	107.95	113.84
34	BV	201	HEM	CBD-CAD-C3D	-3.55	102.76	112.63
26	BC	515	BCR	C30-C25-C26	-3.54	117.62	122.61
27	BH	101	DGD	O2G-C1B-C2B	3.54	119.14	111.50
23	BD	403	PHO	C7-C6-C5	-3.54	103.74	113.36
26	AK	102	BCR	C38-C26-C27	-3.54	106.81	113.62
22	BA	404	CLA	O2A-CGA-CBA	3.54	123.02	111.91
26	AB	619	BCR	C24-C23-C22	3.54	131.58	126.23
26	BX	101	BCR	C30-C25-C26	-3.53	117.64	122.61
22	AC	507	CLA	C7-C6-C5	-3.53	103.76	113.36
26	BA	410	BCR	C33-C5-C4	-3.53	106.83	113.62
26	BK	102	BCR	C16-C17-C18	3.53	132.34	127.31
34	AE	101	HEM	C4B-CHC-C1C	3.52	127.21	122.56
26	BC	515	BCR	C2-C1-C6	3.52	115.90	110.48
26	AC	515	BCR	C23-C24-C25	3.52	137.08	127.20
22	BB	605	CLA	C7-C6-C5	-3.51	103.82	113.36
22	BB	613	CLA	C1-C2-C3	3.51	132.11	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	616	CLA	CAA-C2A-C3A	-3.51	103.18	112.78
22	BB	611	CLA	O2A-CGA-CBA	3.50	122.90	111.91
22	BC	506	CLA	CED-O2D-CGD	3.50	123.85	115.94
22	AB	611	CLA	C7-C6-C5	-3.50	103.86	113.36
34	BE	101	HEM	CHA-C4D-C3D	-3.49	118.77	125.33
30	AD	408	LMG	O7-C10-C11	3.49	119.03	111.50
29	AF	101	SQD	O9-S-C6	-3.49	102.80	106.94
30	BA	414	LMG	O6-C5-C6	3.48	115.10	106.44
26	BB	620	BCR	C2-C1-C6	3.48	115.84	110.48
34	AE	101	HEM	CHA-C4D-C3D	-3.47	118.81	125.33
29	BD	409	SQD	O48-C23-C24	3.47	122.80	111.91
26	AC	515	BCR	C8-C7-C6	3.47	136.95	127.20
26	AC	515	BCR	C30-C25-C26	-3.47	117.73	122.61
26	AH	101	BCR	C33-C5-C4	-3.47	106.96	113.62
26	BB	622	BCR	C30-C25-C26	-3.46	117.74	122.61
26	BK	102	BCR	C23-C24-C25	3.46	136.92	127.20
26	AK	102	BCR	C30-C25-C26	-3.46	117.74	122.61
22	AC	506	CLA	CED-O2D-CGD	3.46	123.75	115.94
26	AA	409	BCR	C7-C8-C9	3.45	131.46	126.23
22	AA	403	CLA	O2A-CGA-CBA	3.45	122.73	111.91
30	BB	623	LMG	O6-C5-C6	3.45	115.01	106.44
22	BB	614	CLA	C7-C6-C5	-3.45	104.00	113.36
26	BC	515	BCR	C23-C24-C25	3.45	136.88	127.20
26	AK	102	BCR	C23-C24-C25	3.45	136.88	127.20
26	AB	618	BCR	C8-C7-C6	3.44	136.87	127.20
30	BD	408	LMG	O6-C5-C6	3.44	114.99	106.44
26	BX	101	BCR	C33-C5-C4	-3.44	107.01	113.62
30	BD	408	LMG	O7-C10-C11	3.44	118.91	111.50
22	BB	604	CLA	C1-C2-C3	3.44	131.99	126.04
26	AZ	101	BCR	C16-C17-C18	3.44	132.22	127.31
27	AH	102	DGD	O2G-C1B-C2B	3.44	118.91	111.50
26	BC	514	BCR	C2-C1-C6	3.44	115.78	110.48
26	AD	406	BCR	C1-C6-C5	-3.43	117.78	122.61
26	BB	621	BCR	C24-C23-C22	3.43	131.42	126.23
26	AZ	101	BCR	C2-C1-C6	3.43	115.76	110.48
26	AD	406	BCR	C8-C7-C6	3.43	136.83	127.20
30	AC	520	LMG	O7-C10-C11	3.43	118.89	111.50
26	BZ	101	BCR	C33-C5-C4	-3.43	107.03	113.62
27	AH	102	DGD	O6D-C5D-C6D	3.42	113.58	106.67
29	AA	412	SQD	O9-S-C6	-3.42	102.87	106.94
34	AE	101	HEM	CAB-C3B-C2B	-3.42	117.33	128.60
24	BJ	101	PL9	C10-C9-C11	3.42	121.02	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AT	102	BCR	C8-C7-C6	3.42	136.80	127.20
30	BC	520	LMG	O7-C10-C11	3.41	118.85	111.50
26	BC	515	BCR	C8-C7-C6	3.41	136.78	127.20
22	AC	512	CLA	O2A-CGA-CBA	3.41	122.60	111.91
26	BD	406	BCR	C8-C7-C6	3.41	136.77	127.20
34	BE	101	HEM	C4B-CHC-C1C	3.41	127.05	122.56
26	AB	618	BCR	C30-C25-C26	-3.40	117.82	122.61
34	AV	201	HEM	CBD-CAD-C3D	-3.40	103.18	112.63
27	BD	410	DGD	C1E-O6E-C5E	3.40	120.36	113.69
34	BE	101	HEM	CAB-C3B-C2B	-3.40	117.41	128.60
26	AA	409	BCR	C30-C25-C26	-3.40	117.83	122.61
22	AB	608	CLA	O2A-CGA-CBA	3.40	122.56	111.91
26	BA	410	BCR	C24-C23-C22	3.39	131.36	126.23
30	AB	621	LMG	O6-C5-C6	3.39	114.86	106.44
27	BC	518	DGD	C1E-O6E-C5E	3.39	120.33	113.69
30	AA	413	LMG	O6-C5-C6	3.38	114.84	106.44
26	AB	620	BCR	C30-C25-C26	-3.38	117.85	122.61
30	BI	101	LMG	C7-O1-C1	-3.38	107.14	113.74
27	AC	516	DGD	O6D-C5D-C6D	3.38	113.49	106.67
22	BC	512	CLA	O2A-CGA-CBA	3.38	122.51	111.91
22	AB	616	CLA	CED-O2D-CGD	3.38	123.58	115.94
22	AB	614	CLA	C1-C2-C3	3.38	131.88	126.04
22	BC	507	CLA	O2A-CGA-CBA	3.38	122.50	111.91
26	AA	409	BCR	C29-C30-C25	3.38	115.68	110.48
26	BD	406	BCR	C1-C6-C5	-3.37	117.86	122.61
34	AV	201	HEM	C4B-CHC-C1C	3.37	127.01	122.56
22	BC	511	CLA	CED-O2D-CGD	3.37	123.56	115.94
26	BA	410	BCR	C29-C30-C25	3.37	115.67	110.48
26	AT	102	BCR	C30-C25-C26	-3.37	117.87	122.61
26	AD	406	BCR	C2-C1-C6	3.36	115.66	110.48
22	BC	507	CLA	C7-C6-C5	-3.36	104.22	113.36
22	AB	601	CLA	C1-C2-C3	3.36	131.86	126.04
22	AB	603	CLA	CAA-C2A-C3A	-3.36	103.58	112.78
22	BB	617	CLA	C1-C2-C3	3.35	131.84	126.04
26	AZ	101	BCR	C33-C5-C4	-3.35	107.18	113.62
22	AA	406	CLA	C7-C6-C5	-3.35	104.27	113.36
22	BC	509	CLA	C1-C2-C3	3.34	131.83	126.04
27	BC	516	DGD	O6D-C5D-C6D	3.34	113.41	106.67
26	BD	406	BCR	C2-C1-C6	3.33	115.61	110.48
22	AB	602	CLA	C7-C6-C5	-3.33	104.30	113.36
27	BH	101	DGD	C1E-O6E-C5E	3.33	120.23	113.69
26	AB	619	BCR	C29-C30-C25	3.33	115.61	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AB	617	BCR	C29-C30-C25	3.33	115.61	110.48
22	AC	507	CLA	O2A-CGA-CBA	3.33	122.36	111.91
26	AJ	102	BCR	C30-C25-C26	-3.33	117.93	122.61
30	BI	101	LMG	O7-C10-C11	3.32	118.65	111.50
29	AF	101	SQD	O48-C23-C24	3.31	122.31	111.91
22	BB	606	CLA	CAA-C2A-C3A	-3.31	103.71	112.78
26	BX	101	BCR	C2-C1-C6	3.31	115.58	110.48
27	BC	516	DGD	C1E-O6E-C5E	3.31	120.18	113.69
28	AA	411	LHG	O8-C23-C24	3.31	122.28	111.91
27	AD	410	DGD	C1E-O6E-C5E	3.30	120.17	113.69
23	AD	403	PHO	CED-O2D-CGD	3.30	123.40	115.94
30	AB	622	LMG	C7-O1-C1	-3.30	107.29	113.74
27	AA	410	DGD	C1E-O6E-C5E	3.29	120.15	113.69
26	BK	102	BCR	C30-C25-C26	-3.29	117.98	122.61
26	AH	101	BCR	C2-C1-C6	3.29	115.54	110.48
22	BC	513	CLA	CED-O2D-CGD	3.29	123.37	115.94
22	BA	403	CLA	O2A-CGA-CBA	3.28	122.22	111.91
30	AB	623	LMG	O7-C10-C11	3.28	118.58	111.50
27	AC	516	DGD	O5D-C6D-C5D	3.28	115.11	109.05
22	BC	509	CLA	CED-O2D-CGD	3.28	123.35	115.94
26	BA	410	BCR	C7-C8-C9	3.27	131.18	126.23
29	AA	415	SQD	C3-C4-C5	-3.27	104.41	110.24
26	BZ	101	BCR	C16-C17-C18	3.27	131.98	127.31
26	AC	514	BCR	C2-C1-C6	3.27	115.51	110.48
22	BA	407	CLA	CED-O2D-CGD	3.26	123.32	115.94
30	BB	623	LMG	C7-O1-C1	-3.26	107.36	113.74
26	AH	101	BCR	C12-C13-C14	-3.26	113.94	118.94
22	AC	513	CLA	CED-O2D-CGD	3.26	123.31	115.94
26	BX	101	BCR	C8-C7-C6	3.26	136.36	127.20
26	BC	514	BCR	C24-C23-C22	3.26	131.16	126.23
30	AI	101	LMG	O7-C10-C11	3.26	118.52	111.50
26	BB	622	BCR	C24-C23-C22	3.26	131.16	126.23
22	BC	502	CLA	CED-O2D-CGD	3.25	123.30	115.94
26	AH	101	BCR	C8-C7-C6	3.25	136.33	127.20
26	BJ	102	BCR	C30-C25-C26	-3.25	118.04	122.61
22	BD	402	CLA	O2A-CGA-CBA	3.25	122.09	111.91
29	BF	101	SQD	O48-C23-C24	3.25	122.09	111.91
30	BD	407	LMG	O7-C10-C11	3.24	118.49	111.50
26	BZ	101	BCR	C2-C1-C6	3.24	115.47	110.48
30	BB	624	LMG	C7-O1-C1	-3.24	107.41	113.74
24	BJ	101	PL9	C7-C8-C9	-3.24	121.40	126.79
26	BX	101	BCR	C12-C13-C14	-3.24	113.97	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AD	402	CLA	CBA-CAA-C2A	3.24	123.42	113.86
22	AB	602	CLA	CED-O2D-CGD	3.23	123.25	115.94
29	BA	413	SQD	O48-C23-C24	3.23	122.05	111.91
30	AB	621	LMG	O7-C10-C11	3.23	118.46	111.50
27	AH	102	DGD	C1E-O6E-C5E	3.23	120.02	113.69
26	AC	514	BCR	C24-C23-C22	3.22	131.11	126.23
24	AA	407	PL9	C35-C34-C36	3.22	120.69	115.27
27	BA	411	DGD	C1E-O6E-C5E	3.22	120.01	113.69
26	AH	101	BCR	C15-C14-C13	3.22	131.90	127.31
26	AB	617	BCR	C8-C7-C6	3.21	136.23	127.20
29	BA	401	SQD	C3-C4-C5	-3.21	104.50	110.24
22	AC	505	CLA	CAA-C2A-C3A	-3.21	103.98	112.78
22	AA	402	CLA	O2A-CGA-CBA	3.21	121.97	111.91
26	BA	410	BCR	C30-C25-C26	-3.21	118.10	122.61
22	AB	603	CLA	O2A-CGA-CBA	3.20	121.97	111.91
26	AK	102	BCR	C24-C23-C22	3.20	131.08	126.23
22	BC	507	CLA	CED-O2D-CGD	3.20	123.18	115.94
22	BB	606	CLA	O2A-CGA-CBA	3.20	121.95	111.91
29	AA	412	SQD	O48-C23-C24	3.20	121.95	111.91
26	BB	620	BCR	C8-C7-C6	3.20	136.19	127.20
22	AB	610	CLA	C1-C2-C3	3.20	131.57	126.04
24	BD	405	PL9	C20-C19-C21	3.20	120.65	115.27
26	AK	102	BCR	C16-C17-C18	3.20	131.87	127.31
22	BA	407	CLA	C7-C6-C5	-3.19	104.68	113.36
26	AC	514	BCR	C1-C6-C5	-3.19	118.11	122.61
24	AA	407	PL9	C27-C28-C29	-3.19	119.97	127.66
22	BB	608	CLA	CED-O2D-CGD	3.19	123.15	115.94
23	BA	406	PHO	C7-C6-C5	-3.18	104.71	113.36
24	AJ	101	PL9	C7-C3-C2	-3.18	119.11	123.30
26	AB	617	BCR	C23-C24-C25	3.18	136.14	127.20
27	AC	518	DGD	O2G-C1B-C2B	3.18	118.36	111.50
29	AA	412	SQD	C44-O6-C1	3.18	119.95	113.74
22	BB	617	CLA	O2D-CGD-CBD	3.18	116.92	111.27
24	BA	408	PL9	C27-C28-C29	-3.18	120.01	127.66
26	AB	620	BCR	C24-C23-C22	3.18	131.03	126.23
22	AD	402	CLA	O2A-CGA-CBA	3.17	121.87	111.91
27	AA	410	DGD	O2G-C1B-C2B	3.17	118.34	111.50
26	BK	102	BCR	C24-C23-C22	3.17	131.03	126.23
26	BB	620	BCR	C29-C30-C25	3.17	115.36	110.48
22	BA	405	CLA	C7-C6-C5	-3.17	104.75	113.36
24	AA	407	PL9	C17-C18-C19	-3.17	120.03	127.66
22	AB	615	CLA	C7-C6-C5	-3.17	104.76	113.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BB	619	CLA	C1-C2-C3	3.16	131.52	126.04
32	BD	411	LMT	C1-O1'-C1'	-3.16	108.59	113.84
27	BC	518	DGD	O2G-C1B-C2B	3.16	118.32	111.50
26	BB	620	BCR	C23-C24-C25	3.16	136.08	127.20
26	AJ	102	BCR	C21-C20-C19	3.16	133.08	123.22
22	BB	618	CLA	C1-C2-C3	3.16	131.51	126.04
22	AA	404	CLA	CAA-C2A-C3A	-3.16	104.12	112.78
32	AM	102	LMT	C1B-O1B-C4'	-3.16	110.15	117.96
22	AC	502	CLA	CED-O2D-CGD	3.16	123.08	115.94
26	AC	514	BCR	C29-C30-C25	3.16	115.34	110.48
24	BJ	101	PL9	C25-C24-C26	3.16	120.58	115.27
22	AC	512	CLA	C1-C2-C3	3.16	131.50	126.04
26	BB	621	BCR	C23-C24-C25	3.16	136.07	127.20
26	BC	514	BCR	C1-C6-C5	-3.16	118.17	122.61
22	BB	619	CLA	CED-O2D-CGD	3.16	123.08	115.94
22	BC	507	CLA	C1-C2-C3	3.16	131.50	126.04
22	AC	505	CLA	O2A-CGA-CBA	3.16	121.81	111.91
22	AB	616	CLA	C7-C6-C5	-3.15	104.80	113.36
22	BB	615	CLA	CED-O2D-CGD	3.15	123.06	115.94
32	AD	411	LMT	C1-O1'-C1'	-3.15	108.61	113.84
30	BB	623	LMG	O7-C10-C11	3.15	118.29	111.50
22	AC	509	CLA	C1-C2-C3	3.15	131.49	126.04
22	BC	505	CLA	CAA-C2A-C3A	-3.14	104.18	112.78
26	AB	618	BCR	C2-C1-C6	3.14	115.31	110.48
29	AA	415	SQD	O9-S-C6	-3.14	103.21	106.94
23	AA	405	PHO	C1-C2-C3	3.13	131.46	126.04
22	BC	501	CLA	O2A-CGA-CBA	3.13	121.72	111.91
22	BC	512	CLA	C1-C2-C3	3.12	131.44	126.04
22	BC	505	CLA	CED-O2D-CGD	3.12	122.99	115.94
22	BB	618	CLA	C7-C6-C5	-3.12	104.89	113.36
30	AB	622	LMG	O7-C10-C11	3.12	118.22	111.50
29	BA	413	SQD	C32-C31-C30	3.12	130.25	114.42
30	AD	407	LMG	O7-C10-C11	3.12	118.22	111.50
22	BB	619	CLA	C7-C6-C5	-3.11	104.91	113.36
30	AE	102	LMG	O7-C10-C11	3.11	118.21	111.50
24	AA	407	PL9	C30-C29-C31	3.11	120.50	115.27
24	AD	405	PL9	C7-C8-C9	-3.11	121.62	126.79
22	AB	611	CLA	CED-O2D-CGD	3.11	122.96	115.94
26	AT	102	BCR	C23-C24-C25	3.10	135.92	127.20
26	BB	621	BCR	C8-C7-C6	3.10	135.92	127.20
22	AB	605	CLA	C1-C2-C3	3.10	131.41	126.04
26	BJ	102	BCR	C21-C20-C19	3.10	132.89	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BB	621	BCR	C2-C1-C6	3.10	115.25	110.48
22	AC	509	CLA	CED-O2D-CGD	3.10	122.94	115.94
26	BB	621	BCR	C1-C6-C5	-3.10	118.25	122.61
29	AA	412	SQD	C32-C31-C30	3.09	130.13	114.42
28	BA	412	LHG	O8-C23-C24	3.09	121.61	111.91
22	BC	512	CLA	C7-C6-C5	-3.09	104.96	113.36
26	AB	617	BCR	C2-C1-C6	3.09	115.24	110.48
22	BC	506	CLA	C7-C6-C5	-3.09	104.96	113.36
27	BA	411	DGD	O2G-C1B-C2B	3.09	118.16	111.50
24	AA	407	PL9	C22-C23-C24	-3.09	120.22	127.66
22	AB	615	CLA	C1-C2-C3	3.09	131.38	126.04
30	AB	621	LMG	C7-O1-C1	-3.09	107.71	113.74
22	BA	405	CLA	CAA-C2A-C3A	-3.09	104.33	112.78
26	BK	102	BCR	C34-C9-C8	3.08	122.94	118.08
27	BC	516	DGD	O2G-C1B-C2B	3.08	118.15	111.50
22	AB	609	CLA	C7-C6-C5	-3.08	104.99	113.36
26	AB	617	BCR	C30-C25-C26	-3.08	118.28	122.61
30	AI	101	LMG	C7-O1-C1	-3.08	107.72	113.74
22	AC	505	CLA	CED-O2D-CGD	3.08	122.89	115.94
22	BC	510	CLA	C7-C6-C5	-3.07	105.03	113.36
23	AD	403	PHO	OBD-CAD-CBD	-3.07	121.32	125.82
22	AC	501	CLA	O2A-CGA-CBA	3.07	121.53	111.91
32	BM	101	LMT	C1B-O1B-C4'	-3.07	110.38	117.96
26	BC	514	BCR	C35-C13-C12	3.07	122.91	118.08
26	BC	514	BCR	C29-C30-C25	3.06	115.20	110.48
22	BC	501	CLA	C7-C6-C5	-3.06	105.04	113.36
22	AB	601	CLA	CED-O2D-CGD	3.06	122.86	115.94
24	AJ	101	PL9	C25-C24-C26	3.06	120.42	115.27
26	AC	515	BCR	C1-C6-C5	-3.06	118.31	122.61
26	AT	102	BCR	C2-C1-C6	3.06	115.19	110.48
24	BA	408	PL9	C30-C29-C31	3.06	120.41	115.27
26	AH	101	BCR	C11-C10-C9	3.06	131.67	127.31
22	AB	603	CLA	CED-O2D-CGD	3.06	122.85	115.94
22	AB	605	CLA	CED-O2D-CGD	3.05	122.84	115.94
23	BD	403	PHO	CED-O2D-CGD	3.05	122.84	115.94
22	BC	511	CLA	C7-C6-C5	-3.05	105.07	113.36
32	BM	101	LMT	C1-O1'-C1'	-3.05	108.78	113.84
22	BB	609	CLA	C1-C2-C3	3.05	131.32	126.04
22	BB	605	CLA	CED-O2D-CGD	3.05	122.83	115.94
22	AB	613	CLA	C7-C6-C5	-3.05	105.08	113.36
23	AA	405	PHO	CED-O2D-CGD	3.05	122.83	115.94
23	BD	403	PHO	OBD-CAD-CBD	-3.05	121.35	125.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AB	620	BCR	C2-C1-C6	3.05	115.17	110.48
22	AA	404	CLA	C7-C6-C5	-3.04	105.09	113.36
22	AB	614	CLA	O2D-CGD-CBD	3.04	116.68	111.27
26	BB	620	BCR	C30-C25-C26	-3.04	118.33	122.61
22	AA	402	CLA	CED-O2D-CGD	3.04	122.81	115.94
26	AB	618	BCR	C23-C24-C25	3.04	135.74	127.20
26	AC	514	BCR	C35-C13-C12	3.04	122.86	118.08
22	AC	512	CLA	C7-C6-C5	-3.04	105.12	113.36
27	BC	516	DGD	O5D-C6D-C5D	3.03	114.66	109.05
24	BD	405	PL9	C7-C8-C9	-3.03	121.74	126.79
26	AB	619	BCR	C8-C7-C6	3.03	135.71	127.20
26	AB	619	BCR	C23-C24-C25	3.03	135.71	127.20
22	AB	615	CLA	CED-O2D-CGD	3.03	122.79	115.94
29	AA	415	SQD	C32-C31-C30	3.03	129.80	114.42
22	AC	510	CLA	C7-C6-C5	-3.03	105.14	113.36
22	AC	507	CLA	C1-C2-C3	3.03	131.28	126.04
30	AA	416	LMG	O7-C10-C11	3.03	118.02	111.50
26	AA	409	BCR	C2-C1-C6	3.03	115.14	110.48
22	BD	402	CLA	CBA-CAA-C2A	3.02	122.79	113.86
22	BA	403	CLA	CED-O2D-CGD	3.02	122.77	115.94
22	AA	404	CLA	CED-O2D-CGD	3.02	122.77	115.94
22	AC	511	CLA	CED-O2D-CGD	3.02	122.77	115.94
22	BB	612	CLA	C7-C6-C5	-3.02	105.16	113.36
22	AB	614	CLA	CED-O2D-CGD	3.02	122.76	115.94
26	AC	514	BCR	C32-C1-C6	3.02	115.19	110.30
22	AC	504	CLA	C1-C2-C3	3.02	131.26	126.04
27	BB	602	DGD	O5D-C6D-C5D	3.01	114.62	109.05
26	AB	619	BCR	C2-C1-C6	3.01	115.11	110.48
30	BB	624	LMG	O7-C10-C11	3.01	117.98	111.50
24	BA	408	PL9	C22-C23-C24	-3.01	120.42	127.66
24	AA	407	PL9	C12-C13-C14	-3.00	120.42	127.66
22	AC	501	CLA	CAA-C2A-C3A	-3.00	104.55	112.78
26	BX	101	BCR	C15-C14-C13	3.00	131.59	127.31
29	BA	401	SQD	C32-C31-C30	3.00	129.66	114.42
24	BA	408	PL9	C17-C18-C19	-3.00	120.44	127.66
22	BB	605	CLA	CAA-C2A-C3A	-3.00	104.56	112.78
22	BB	617	CLA	CED-O2D-CGD	3.00	122.72	115.94
27	AD	410	DGD	O2G-C1B-C2B	2.99	117.95	111.50
26	AK	102	BCR	C34-C9-C8	2.99	122.79	118.08
22	BC	509	CLA	O2A-CGA-CBA	2.99	121.29	111.91
30	AE	102	LMG	O6-C5-C6	2.99	113.87	106.44
27	BD	410	DGD	O2G-C1B-C2B	2.99	117.94	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AF	101	SQD	C3-C4-C5	-2.99	104.91	110.24
22	BD	402	CLA	CMB-C2B-C1B	-2.99	123.87	128.46
22	BB	610	CLA	O2A-CGA-CBA	2.99	121.28	111.91
22	BC	505	CLA	O2A-CGA-CBA	2.99	121.28	111.91
22	AB	606	CLA	C1-C2-C3	2.99	131.21	126.04
22	BC	502	CLA	C7-C6-C5	-2.99	105.25	113.36
22	BC	513	CLA	C7-C6-C5	-2.98	105.26	113.36
22	AD	404	CLA	CED-O2D-CGD	2.98	122.68	115.94
22	AC	509	CLA	O2A-CGA-CBA	2.98	121.26	111.91
32	BB	626	LMT	C1B-O1B-C4'	-2.98	110.60	117.96
22	AC	506	CLA	C7-C6-C5	-2.98	105.28	113.36
30	BA	414	LMG	O7-C10-C11	2.98	117.91	111.50
22	AC	510	CLA	C1-C2-C3	2.97	131.19	126.04
26	AH	101	BCR	C16-C17-C18	2.97	131.55	127.31
23	AA	405	PHO	OBD-CAD-CBD	-2.97	121.46	125.82
24	BA	408	PL9	C35-C34-C36	2.97	120.27	115.27
22	AB	607	CLA	O2A-CGA-CBA	2.97	121.22	111.91
26	AC	514	BCR	C30-C25-C26	-2.97	118.43	122.61
30	AA	416	LMG	C7-O1-C1	-2.97	107.94	113.74
30	BM	102	LMG	O6-C5-C6	2.96	113.81	106.44
22	BC	504	CLA	C1-C2-C3	2.96	131.17	126.04
30	BE	102	LMG	O7-C10-C11	2.96	117.88	111.50
24	AD	405	PL9	C20-C19-C21	2.96	120.25	115.27
22	AA	406	CLA	CED-O2D-CGD	2.96	122.63	115.94
22	AB	602	CLA	CAA-C2A-C3A	-2.96	104.67	112.78
22	AD	404	CLA	CAA-C2A-C3A	-2.96	104.68	112.78
26	BK	102	BCR	C12-C13-C14	-2.96	114.41	118.94
30	BE	102	LMG	O6-C5-C6	2.95	113.78	106.44
26	AT	102	BCR	C24-C23-C22	2.95	130.70	126.23
23	BA	406	PHO	C1-C2-C3	2.95	131.15	126.04
22	BB	613	CLA	O2D-CGD-CBD	2.95	116.52	111.27
22	AB	601	CLA	C7-C6-C5	-2.95	105.34	113.36
22	AC	511	CLA	C7-C6-C5	-2.95	105.35	113.36
26	AB	618	BCR	C24-C23-C22	2.94	130.68	126.23
26	BB	622	BCR	C1-C6-C5	-2.94	118.47	122.61
22	BB	604	CLA	CED-O2D-CGD	2.94	122.59	115.94
23	AD	403	PHO	CAA-C2A-C3A	-2.94	104.72	112.78
22	BB	616	CLA	C7-C6-C5	-2.94	105.37	113.36
22	BB	606	CLA	CED-O2D-CGD	2.94	122.58	115.94
22	BB	614	CLA	CED-O2D-CGD	2.94	122.58	115.94
22	AC	505	CLA	C7-C6-C5	-2.94	105.38	113.36
26	BC	514	BCR	C30-C25-C26	-2.93	118.48	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BD	405	PL9	C17-C18-C19	-2.93	120.60	127.66
22	BB	605	CLA	O2A-CGA-CBA	2.93	121.11	111.91
22	AC	510	CLA	O2A-CGA-CBA	2.93	121.10	111.91
23	AA	405	PHO	C7-C6-C5	-2.93	105.40	113.36
22	AB	608	CLA	CED-O2D-CGD	2.93	122.56	115.94
22	AC	507	CLA	CED-O2D-CGD	2.93	122.56	115.94
22	AC	502	CLA	C1-C2-C3	2.93	131.10	126.04
26	BD	406	BCR	C37-C22-C23	2.93	122.69	118.08
22	BC	508	CLA	CED-O2D-CGD	2.93	122.56	115.94
22	BB	609	CLA	O2A-CGA-CBA	2.93	121.09	111.91
22	BC	501	CLA	CED-O2D-CGD	2.93	122.56	115.94
24	BA	408	PL9	C12-C13-C14	-2.93	120.62	127.66
26	BC	515	BCR	C1-C6-C5	-2.92	118.50	122.61
22	AB	616	CLA	C1-C2-C3	2.92	131.10	126.04
30	AM	101	LMG	O6-C5-C6	2.92	113.70	106.44
23	BD	403	PHO	CAA-C2A-C3A	-2.92	104.78	112.78
26	BB	620	BCR	C1-C6-C5	-2.92	118.50	122.61
26	BA	410	BCR	C23-C24-C25	2.91	135.38	127.20
34	AV	201	HEM	CAB-C3B-C2B	-2.91	119.01	128.60
22	AB	605	CLA	C7-C6-C5	-2.91	105.46	113.36
22	AC	502	CLA	C7-C6-C5	-2.91	105.46	113.36
22	BB	611	CLA	CED-O2D-CGD	2.91	122.52	115.94
26	AA	409	BCR	C1-C6-C5	-2.91	118.52	122.61
29	BD	409	SQD	C3-C4-C5	-2.90	105.06	110.24
27	AC	516	DGD	O2G-C1B-C2B	2.90	117.75	111.50
22	AB	602	CLA	O2A-CGA-CBA	2.90	121.01	111.91
22	BB	604	CLA	C7-C6-C5	-2.90	105.48	113.36
26	BZ	101	BCR	C35-C13-C12	2.90	122.65	118.08
22	AB	601	CLA	O2A-CGA-CBA	2.90	121.01	111.91
30	AC	520	LMG	O6-C5-C6	2.90	113.64	106.44
26	BJ	102	BCR	C16-C17-C18	2.90	131.45	127.31
22	AB	612	CLA	C1-C2-C3	2.90	131.05	126.04
24	AA	407	PL9	C25-C24-C26	2.90	120.14	115.27
26	BA	410	BCR	C37-C22-C23	2.90	122.64	118.08
22	AC	508	CLA	C7-C6-C5	-2.90	105.50	113.36
32	BB	603	LMT	C1B-O1B-C4'	-2.89	110.80	117.96
22	BD	402	CLA	C7-C6-C5	-2.89	105.51	113.36
32	AB	625	LMT	C1B-O1B-C4'	-2.89	110.81	117.96
22	AB	606	CLA	O2A-CGA-CBA	2.89	120.98	111.91
22	BC	510	CLA	C1-C2-C3	2.89	131.04	126.04
26	BD	406	BCR	C12-C13-C14	-2.89	114.51	118.94
22	BD	402	CLA	CED-O2D-CGD	2.89	122.47	115.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BC	505	CLA	CBA-CAA-C2A	2.89	122.38	113.86
26	BA	410	BCR	C2-C1-C6	2.88	114.92	110.48
24	BJ	101	PL9	C7-C3-C2	-2.88	119.51	123.30
22	AC	510	CLA	CED-O2D-CGD	2.88	122.46	115.94
26	AA	409	BCR	C23-C24-C25	2.88	135.30	127.20
30	AC	519	LMG	O7-C10-C11	2.88	117.71	111.50
26	AB	619	BCR	C1-C6-C5	-2.88	118.56	122.61
24	AD	405	PL9	C25-C24-C26	2.88	120.11	115.27
22	BB	618	CLA	CED-O2D-CGD	2.88	122.45	115.94
26	AD	406	BCR	C37-C22-C23	2.87	122.61	118.08
22	BB	604	CLA	O2A-CGA-CBA	2.87	120.93	111.91
22	AC	501	CLA	C7-C6-C5	-2.87	105.56	113.36
26	BD	406	BCR	C23-C22-C21	-2.87	114.54	118.94
26	BX	101	BCR	C16-C17-C18	2.87	131.41	127.31
27	BC	517	DGD	C1E-O6E-C5E	2.87	119.32	113.69
22	AD	402	CLA	CMB-C2B-C1B	-2.87	124.06	128.46
26	AD	406	BCR	C23-C24-C25	2.86	135.24	127.20
32	AB	627	LMT	C1B-O1B-C4'	-2.86	110.88	117.96
34	AV	201	HEM	CHA-C4D-C3D	-2.86	119.96	125.33
22	AC	506	CLA	C1-C2-C3	2.86	130.99	126.04
22	AC	513	CLA	C1-C2-C3	2.86	130.99	126.04
22	AA	406	CLA	CAA-C2A-C3A	-2.86	104.96	112.78
22	BC	505	CLA	C7-C6-C5	-2.85	105.61	113.36
24	AD	405	PL9	C17-C18-C19	-2.85	120.79	127.66
29	AD	409	SQD	O47-C7-C8	2.85	117.65	111.50
26	AC	514	BCR	C23-C24-C25	2.85	135.20	127.20
22	AC	501	CLA	CED-O2D-CGD	2.85	122.37	115.94
22	BB	610	CLA	C1-C2-C3	2.84	130.96	126.04
22	AC	503	CLA	CED-O2D-CGD	2.84	122.37	115.94
22	AC	513	CLA	C7-C6-C5	-2.84	105.64	113.36
22	AA	403	CLA	O2D-CGD-CBD	2.84	116.32	111.27
22	BA	407	CLA	CAA-C2A-C3A	-2.84	105.00	112.78
24	BA	408	PL9	C25-C24-C26	2.84	120.05	115.27
26	BC	514	BCR	C23-C24-C25	2.84	135.17	127.20
24	BD	405	PL9	C15-C14-C16	2.84	120.04	115.27
22	BD	404	CLA	CED-O2D-CGD	2.84	122.35	115.94
24	BA	408	PL9	C15-C14-C16	2.84	120.04	115.27
22	AC	511	CLA	C1-C2-C3	2.83	130.94	126.04
34	BV	201	HEM	CAB-C3B-C2B	-2.83	119.27	128.60
26	BX	101	BCR	C35-C13-C12	2.83	122.54	118.08
22	BB	616	CLA	CMB-C2B-C1B	-2.83	124.11	128.46
22	BA	405	CLA	CED-O2D-CGD	2.83	122.34	115.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BC	508	CLA	C7-C6-C5	-2.83	105.68	113.36
29	BD	409	SQD	O47-C7-C8	2.83	117.59	111.50
22	AB	607	CLA	C1-C2-C3	2.83	130.93	126.04
22	AB	615	CLA	O2A-CGA-CBA	2.82	120.77	111.91
22	BC	501	CLA	CAA-C2A-C3A	-2.82	105.05	112.78
30	AD	407	LMG	O6-C5-C6	2.82	113.45	106.44
22	AB	606	CLA	C7-C6-C5	-2.82	105.71	113.36
24	AD	405	PL9	C15-C14-C16	2.82	120.01	115.27
22	AB	608	CLA	CAA-C2A-C3A	-2.81	105.07	112.78
30	BC	519	LMG	O6-C5-C6	2.81	113.42	106.44
22	BC	502	CLA	C1-C2-C3	2.81	130.90	126.04
22	AB	605	CLA	O2A-CGA-CBA	2.81	120.71	111.91
34	BV	201	HEM	C4B-CHC-C1C	2.81	126.26	122.56
26	AB	618	BCR	C1-C6-C5	-2.80	118.66	122.61
26	BK	102	BCR	C35-C13-C12	2.80	122.50	118.08
22	AC	503	CLA	C7-C6-C5	-2.80	105.75	113.36
26	BX	101	BCR	C23-C24-C25	2.80	135.07	127.20
22	BA	404	CLA	C1-C2-C3	2.80	130.89	126.04
26	AK	102	BCR	C12-C13-C14	-2.80	114.65	118.94
26	AT	102	BCR	C1-C6-C5	-2.80	118.67	122.61
29	BF	101	SQD	C3-C4-C5	-2.80	105.25	110.24
22	AB	612	CLA	CED-O2D-CGD	2.80	122.26	115.94
26	BX	101	BCR	C1-C6-C5	-2.80	118.67	122.61
26	BZ	101	BCR	C8-C7-C6	2.80	135.05	127.20
22	BB	619	CLA	O2A-CGA-CBA	2.79	120.68	111.91
22	AD	404	CLA	O2D-CGD-CBD	2.79	116.23	111.27
29	BL	101	SQD	C44-O6-C1	2.79	119.20	113.74
30	AB	623	LMG	C7-O1-C1	-2.79	108.28	113.74
22	BC	503	CLA	C7-C6-C5	-2.79	105.77	113.36
22	AC	512	CLA	CED-O2D-CGD	2.79	122.25	115.94
24	AA	407	PL9	C10-C9-C11	2.79	119.97	115.27
22	AC	511	CLA	O2A-CGA-CBA	2.79	120.66	111.91
32	AM	102	LMT	C1-O1'-C1'	-2.79	109.21	113.84
32	BB	603	LMT	C1-O1'-C1'	-2.79	109.22	113.84
26	AB	617	BCR	C1-C6-C5	-2.79	118.69	122.61
34	BV	201	HEM	C4A-C3A-C2A	2.79	108.94	107.00
22	AC	508	CLA	O2D-CGD-CBD	2.79	116.22	111.27
22	BB	618	CLA	O2A-CGA-CBA	2.78	120.64	111.91
22	AC	505	CLA	CBA-CAA-C2A	2.78	122.08	113.86
34	BV	201	HEM	CHA-C4D-C3D	-2.78	120.11	125.33
34	AV	201	HEM	O2A-CGA-CBA	2.78	122.97	114.03
22	BC	510	CLA	O2A-CGA-CBA	2.78	120.64	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AD	402	CLA	CED-O2D-CGD	2.78	122.23	115.94
29	AA	412	SQD	C3-C4-C5	-2.78	105.28	110.24
22	AC	508	CLA	O2A-CGA-CBA	2.78	120.62	111.91
27	AC	517	DGD	C1E-O6E-C5E	2.78	119.14	113.69
22	BC	508	CLA	O2A-CGA-CBA	2.77	120.61	111.91
22	AB	604	CLA	O2A-CGA-CBA	2.77	120.61	111.91
22	BA	404	CLA	CMD-C2D-C1D	2.77	129.60	124.71
22	BB	619	CLA	C2A-C3A-C4A	2.77	106.34	101.87
32	AD	411	LMT	C1B-O1B-C4'	-2.77	111.11	117.96
24	AD	405	PL9	C45-C44-C46	2.77	119.93	115.27
22	BB	608	CLA	C7-C6-C5	-2.77	105.84	113.36
24	AJ	101	PL9	C22-C23-C24	-2.77	120.99	127.66
22	BC	503	CLA	CED-O2D-CGD	2.77	122.19	115.94
22	AB	604	CLA	C7-C6-C5	-2.76	105.85	113.36
22	AA	403	CLA	C2A-C3A-C4A	2.76	106.33	101.87
22	BB	609	CLA	C7-C6-C5	-2.76	105.86	113.36
22	BB	608	CLA	CAA-C2A-C3A	-2.76	105.22	112.78
22	BB	614	CLA	O2A-CGA-CBA	2.76	120.57	111.91
22	BB	615	CLA	O2A-CGA-CBA	2.76	120.57	111.91
26	AH	101	BCR	C23-C24-C25	2.76	134.96	127.20
26	AD	406	BCR	C23-C22-C21	-2.76	114.71	118.94
23	BA	406	PHO	CED-O2D-CGD	2.76	122.18	115.94
22	BC	506	CLA	C1-C2-C3	2.76	130.81	126.04
22	BB	613	CLA	O2A-CGA-CBA	2.76	120.56	111.91
26	AZ	101	BCR	C8-C7-C6	2.76	134.94	127.20
26	BA	410	BCR	C1-C6-C5	-2.76	118.73	122.61
22	BC	510	CLA	CED-O2D-CGD	2.75	122.17	115.94
26	AD	406	BCR	C12-C13-C14	-2.75	114.72	118.94
22	BA	404	CLA	CED-O2D-CGD	2.75	122.16	115.94
26	AB	620	BCR	C1-C6-C5	-2.75	118.74	122.61
22	BC	513	CLA	C1-C2-C3	2.75	130.80	126.04
24	AD	405	PL9	C37-C38-C39	-2.75	121.04	127.66
23	BD	403	PHO	C1-C2-C3	2.75	130.79	126.04
22	AD	404	CLA	O2A-CGA-CBA	2.74	120.52	111.91
22	BB	607	CLA	O2A-CGA-CBA	2.74	120.51	111.91
23	BA	406	PHO	C4A-C3A-C2A	2.74	105.45	102.84
22	BA	404	CLA	CHD-C1D-ND	-2.74	121.94	124.45
22	AB	616	CLA	O2A-CGA-CBA	2.74	120.50	111.91
26	AJ	102	BCR	C15-C16-C17	-2.74	117.87	123.47
22	AC	510	CLA	C2A-C3A-C4A	2.74	106.29	101.87
22	BD	404	CLA	O2A-CGA-CBA	2.74	120.49	111.91
22	AC	508	CLA	CED-O2D-CGD	2.73	122.12	115.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BD	406	BCR	C23-C24-C25	2.73	134.88	127.20
23	AD	403	PHO	C4A-C3A-C2A	2.73	105.44	102.84
22	BB	608	CLA	C1-C2-C3	2.73	130.77	126.04
24	AD	405	PL9	C42-C43-C44	-2.73	121.09	127.66
22	BA	407	CLA	O2A-CGA-CBA	2.73	120.47	111.91
22	AB	612	CLA	O2D-CGD-CBD	2.73	116.11	111.27
34	BV	201	HEM	O2A-CGA-CBA	2.72	122.78	114.03
22	AB	612	CLA	O2A-CGA-CBA	2.72	120.45	111.91
22	AB	608	CLA	C7-C6-C5	-2.72	105.97	113.36
26	AB	620	BCR	C23-C24-C25	2.72	134.84	127.20
26	BC	514	BCR	C32-C1-C6	2.72	114.71	110.30
22	BC	512	CLA	O2D-CGD-CBD	2.72	116.10	111.27
22	AA	406	CLA	O2A-CGA-CBA	2.72	120.44	111.91
22	AB	605	CLA	CAA-C2A-C3A	-2.72	105.34	112.78
22	BA	403	CLA	C7-C6-C5	-2.72	105.98	113.36
22	AB	614	CLA	O2A-CGA-CBA	2.71	120.42	111.91
24	BJ	101	PL9	C22-C23-C24	-2.71	121.13	127.66
26	BX	101	BCR	C11-C10-C9	2.71	131.18	127.31
27	BC	517	DGD	C3G-C2G-C1G	-2.71	105.37	111.79
26	AK	102	BCR	C35-C13-C12	2.71	122.35	118.08
24	BD	405	PL9	C25-C24-C26	2.71	119.83	115.27
22	BA	404	CLA	O2D-CGD-CBD	2.71	116.08	111.27
30	BC	520	LMG	O6-C5-C6	2.71	113.17	106.44
24	AA	407	PL9	C15-C14-C16	2.71	119.83	115.27
22	BB	617	CLA	O2A-CGA-CBA	2.71	120.41	111.91
24	AA	407	PL9	C20-C19-C21	2.71	119.83	115.27
22	BC	508	CLA	CAA-C2A-C3A	-2.71	105.37	112.78
24	AJ	101	PL9	C20-C19-C21	2.71	119.82	115.27
26	BB	622	BCR	C7-C8-C9	2.70	130.32	126.23
26	AZ	101	BCR	C1-C6-C5	-2.70	118.81	122.61
34	AE	101	HEM	O2A-CGA-CBA	2.70	122.69	114.03
27	AC	517	DGD	C3G-C2G-C1G	-2.70	105.41	111.79
22	AD	402	CLA	C7-C6-C5	-2.70	106.04	113.36
22	AB	614	CLA	CMB-C2B-C1B	-2.69	124.32	128.46
22	AA	402	CLA	C7-C6-C5	-2.69	106.04	113.36
29	BA	413	SQD	C3-C4-C5	-2.68	105.45	110.24
22	AC	513	CLA	O2A-CGA-CBA	2.68	120.33	111.91
27	AB	626	DGD	O5D-C6D-C5D	2.68	114.01	109.05
22	AC	503	CLA	O2A-CGA-CBA	2.68	120.33	111.91
22	BB	610	CLA	CAA-C2A-C3A	-2.68	105.44	112.78
30	BC	519	LMG	O7-C10-C11	2.68	117.28	111.50
22	AB	607	CLA	CAA-C2A-C3A	-2.68	105.44	112.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AH	101	BCR	C1-C6-C5	-2.68	118.84	122.61
22	BD	404	CLA	CAA-C2A-C3A	-2.68	105.45	112.78
22	AC	506	CLA	CAA-C2A-C3A	-2.68	105.45	112.78
26	BC	515	BCR	C40-C30-C29	-2.68	98.20	108.91
30	AA	413	LMG	O7-C10-C11	2.67	117.26	111.50
22	AB	602	CLA	CMB-C2B-C1B	-2.67	124.36	128.46
30	AC	519	LMG	O6-C5-C6	2.67	113.08	106.44
34	BE	101	HEM	O2A-CGA-CBA	2.67	122.61	114.03
26	BC	514	BCR	C40-C30-C25	2.67	114.63	110.30
30	BD	407	LMG	O6-C5-C6	2.67	113.07	106.44
24	BD	405	PL9	C37-C38-C39	-2.66	121.25	127.66
24	AD	405	PL9	C40-C39-C41	2.66	119.75	115.27
26	AK	102	BCR	C30-C25-C24	2.66	123.31	115.78
30	BI	101	LMG	O6-C5-C6	2.66	113.06	106.44
24	BD	405	PL9	C42-C43-C44	-2.66	121.25	127.66
26	BC	515	BCR	C16-C17-C18	2.66	131.11	127.31
30	BE	102	LMG	O1-C1-C2	2.66	112.45	108.30
26	AC	515	BCR	C16-C17-C18	2.66	131.10	127.31
26	AA	409	BCR	C37-C22-C23	2.66	122.27	118.08
22	AB	606	CLA	CED-O2D-CGD	2.66	121.95	115.94
26	AC	515	BCR	C40-C30-C29	-2.66	98.28	108.91
24	BD	405	PL9	C45-C44-C46	2.66	119.74	115.27
26	AH	101	BCR	C35-C13-C12	2.65	122.25	118.08
24	BD	405	PL9	C30-C29-C31	2.65	119.73	115.27
22	AC	509	CLA	C7-C6-C5	-2.65	106.17	113.36
22	BB	606	CLA	CMB-C2B-C1B	-2.65	124.39	128.46
26	BZ	101	BCR	C1-C6-C5	-2.65	118.89	122.61
26	BB	622	BCR	C23-C24-C25	2.65	134.64	127.20
22	AC	504	CLA	C7-C6-C5	-2.65	106.17	113.36
24	BD	405	PL9	C35-C34-C36	2.64	119.71	115.27
22	BC	513	CLA	O2A-CGA-CBA	2.64	120.19	111.91
26	AB	617	BCR	C35-C13-C12	2.64	122.23	118.08
22	AD	402	CLA	C1-C2-C3	2.64	130.61	126.04
22	BB	608	CLA	O2A-CGA-CBA	2.64	120.19	111.91
23	BA	406	PHO	OBD-CAD-CBD	-2.64	121.95	125.82
22	BC	504	CLA	C7-C6-C5	-2.64	106.20	113.36
22	AA	403	CLA	CED-O2D-CGD	2.64	121.90	115.94
22	BC	501	CLA	O2D-CGD-CBD	2.63	115.95	111.27
27	BB	602	DGD	C3G-O3G-C1D	-2.63	108.60	113.74
27	AA	410	DGD	O6D-C5D-C6D	2.63	111.98	106.67
28	AC	521	LHG	O8-C23-C24	2.63	120.17	111.91
26	BZ	101	BCR	C30-C25-C26	-2.63	118.91	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	BD	403	PHO	O2A-CGA-CBA	2.63	120.16	111.91
28	BC	521	LHG	O8-C23-C24	2.63	120.16	111.91
22	AB	610	CLA	O2D-CGD-CBD	2.63	115.94	111.27
29	AA	412	SQD	O47-C7-C8	2.62	117.16	111.50
22	BB	613	CLA	C7-C6-C5	-2.62	106.23	113.36
30	BA	414	LMG	C7-O1-C1	-2.62	108.61	113.74
22	AC	508	CLA	CAA-C2A-C3A	-2.62	105.60	112.78
29	BB	601	SQD	C44-O6-C1	2.62	118.86	113.74
22	BC	511	CLA	O2A-CGA-CBA	2.62	120.13	111.91
24	BA	408	PL9	C10-C9-C11	2.62	119.68	115.27
29	BA	401	SQD	C45-O47-C7	2.62	124.24	117.79
22	AA	403	CLA	CMD-C2D-C1D	2.62	129.33	124.71
22	BC	503	CLA	O2A-CGA-CBA	2.61	120.11	111.91
22	BB	613	CLA	CMB-C2B-C1B	-2.61	124.44	128.46
26	AZ	101	BCR	C35-C13-C12	2.61	122.19	118.08
23	AD	403	PHO	O2A-CGA-CBA	2.61	120.11	111.91
29	BA	413	SQD	C44-O6-C1	2.61	118.84	113.74
22	AB	610	CLA	CMB-C2B-C1B	-2.61	124.45	128.46
32	AB	627	LMT	C1-O1'-C1'	-2.61	109.52	113.84
22	AB	612	CLA	C6-C5-C3	2.61	120.29	113.45
22	AB	613	CLA	O2A-CGA-CBA	2.61	120.09	111.91
26	AZ	101	BCR	C30-C25-C26	-2.60	118.94	122.61
22	BB	607	CLA	C7-C6-C5	-2.60	106.29	113.36
22	BB	611	CLA	C7-C6-C5	-2.60	106.29	113.36
26	AJ	102	BCR	C20-C21-C22	-2.60	123.60	127.31
22	AB	611	CLA	O2A-CGA-CBA	2.60	120.06	111.91
22	AB	610	CLA	O2A-CGA-CBA	2.60	120.06	111.91
22	BD	402	CLA	CMB-C2B-C3B	2.60	129.54	124.68
27	BB	602	DGD	O6D-C5D-C6D	2.60	111.90	106.67
22	AB	613	CLA	CMB-C2B-C1B	-2.59	124.48	128.46
22	BA	404	CLA	CMB-C2B-C1B	-2.59	124.49	128.46
32	AT	101	LMT	O1B-C1B-C2B	2.58	114.79	108.10
22	AB	610	CLA	C7-C6-C5	-2.58	106.34	113.36
22	BC	504	CLA	CAA-C2A-C3A	-2.58	105.71	112.78
22	BB	605	CLA	CMB-C2B-C1B	-2.58	124.50	128.46
22	BC	509	CLA	C2A-C3A-C4A	2.58	106.04	101.87
22	AC	501	CLA	O2D-CGD-CBD	2.58	115.85	111.27
22	AC	507	CLA	C2A-C1A-CHA	2.58	128.37	123.86
22	AB	616	CLA	C2A-C3A-C4A	2.58	106.03	101.87
27	BA	411	DGD	O6D-C5D-C6D	2.58	111.87	106.67
22	BC	507	CLA	C2A-C1A-CHA	2.58	128.36	123.86
22	BC	511	CLA	C1-C2-C3	2.57	130.50	126.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AD	409	SQD	C31-C30-C29	2.57	132.96	113.42
22	BB	616	CLA	O2A-CGA-CBA	2.57	119.98	111.91
22	BA	405	CLA	CAA-CBA-CGA	2.57	120.77	113.25
22	BB	609	CLA	CED-O2D-CGD	2.57	121.74	115.94
22	BC	512	CLA	CED-O2D-CGD	2.57	121.74	115.94
22	BA	404	CLA	C2A-C3A-C4A	2.56	106.01	101.87
22	AC	504	CLA	O2A-CGA-CBA	2.56	119.95	111.91
22	AC	502	CLA	O2A-CGA-CBA	2.56	119.94	111.91
22	BB	611	CLA	CMB-C2B-C1B	-2.56	124.53	128.46
30	AI	101	LMG	O6-C5-C6	2.56	112.79	106.44
24	AD	405	PL9	C30-C29-C31	2.55	119.57	115.27
22	BC	512	CLA	CAA-C2A-C3A	-2.55	105.79	112.78
26	AB	620	BCR	C7-C8-C9	2.55	130.09	126.23
26	AC	515	BCR	C24-C23-C22	2.55	130.09	126.23
26	BJ	102	BCR	C15-C16-C17	-2.55	118.25	123.47
24	BJ	101	PL9	C17-C18-C19	-2.55	121.53	127.66
22	BB	615	CLA	C6-C5-C3	2.54	120.13	113.45
28	BA	412	LHG	O7-C7-C8	2.54	116.98	111.50
24	BA	408	PL9	C20-C19-C21	2.54	119.55	115.27
22	BC	504	CLA	O2A-CGA-CBA	2.54	119.89	111.91
22	BB	616	CLA	CED-O2D-CGD	2.54	121.69	115.94
22	BC	504	CLA	CMB-C2B-C1B	-2.54	124.56	128.46
26	AK	102	BCR	C32-C1-C2	-2.54	98.74	108.91
22	BB	611	CLA	CAA-C2A-C3A	-2.54	105.82	112.78
22	AC	506	CLA	O2A-CGA-CBA	2.54	119.88	111.91
22	BB	612	CLA	C1-C2-C3	2.54	130.44	126.04
22	AB	603	CLA	CMB-C2B-C1B	-2.54	124.56	128.46
29	AD	409	SQD	C3-C4-C5	-2.54	105.71	110.24
22	BB	615	CLA	O2D-CGD-CBD	2.54	115.78	111.27
24	AD	405	PL9	C12-C13-C14	-2.54	121.55	127.66
27	AD	410	DGD	O6D-C5D-C4D	2.54	114.30	109.69
29	BA	413	SQD	C15-C14-C13	2.54	127.30	114.42
22	BB	616	CLA	C2A-C3A-C4A	2.53	105.96	101.87
22	BB	618	CLA	O2D-CGD-CBD	2.53	115.77	111.27
30	AA	413	LMG	C7-O1-C1	-2.53	108.79	113.74
26	AC	515	BCR	C35-C13-C12	2.53	122.07	118.08
26	AT	102	BCR	C23-C22-C21	-2.53	115.06	118.94
28	BA	412	LHG	P-O6-C4	-2.53	106.83	121.68
26	BC	515	BCR	C30-C25-C24	2.53	122.94	115.78
28	AA	411	LHG	P-O6-C4	-2.53	106.84	121.68
29	BD	409	SQD	C31-C30-C29	2.53	132.63	113.42
29	BB	601	SQD	C31-C30-C29	2.53	132.62	113.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AA	412	SQD	O8-S-O7	2.53	117.45	111.27
22	BC	508	CLA	O2D-CGD-CBD	2.53	115.76	111.27
22	AB	604	CLA	C1-C2-C3	2.53	130.41	126.04
26	AJ	102	BCR	C16-C17-C18	2.53	130.91	127.31
24	BJ	101	PL9	C20-C19-C21	2.53	119.52	115.27
26	AZ	101	BCR	C19-C18-C17	-2.53	115.07	118.94
26	BK	102	BCR	C30-C25-C24	2.52	122.92	115.78
22	AA	404	CLA	CAA-CBA-CGA	2.52	120.62	113.25
26	AD	406	BCR	C35-C13-C12	2.52	122.05	118.08
28	AA	411	LHG	O7-C7-C8	2.52	116.93	111.50
22	BC	506	CLA	CAA-C2A-C3A	-2.52	105.88	112.78
32	BD	411	LMT	C1B-O1B-C4'	-2.52	111.73	117.96
24	BD	405	PL9	C40-C39-C41	2.52	119.51	115.27
22	BC	511	CLA	C2A-C1A-CHA	2.52	128.26	123.86
22	BB	617	CLA	CMB-C2B-C1B	-2.52	124.60	128.46
26	BJ	102	BCR	C20-C21-C22	-2.51	123.72	127.31
26	AD	406	BCR	C15-C14-C13	2.51	130.90	127.31
30	AB	622	LMG	O6-C5-C6	2.51	112.69	106.44
29	AA	415	SQD	C36-C35-C34	2.51	127.18	114.42
26	AB	618	BCR	C23-C22-C21	-2.51	115.08	118.94
29	BB	601	SQD	O47-C7-C8	2.51	116.92	111.50
34	AE	101	HEM	CAB-C3B-C4B	2.51	136.17	124.47
22	AB	615	CLA	O2D-CGD-CBD	2.51	115.73	111.27
26	AC	514	BCR	C12-C13-C14	-2.51	115.09	118.94
22	AC	510	CLA	O2D-CGD-CBD	2.51	115.73	111.27
29	BL	101	SQD	C31-C30-C29	2.51	132.47	113.42
26	AA	409	BCR	C16-C17-C18	2.51	130.89	127.31
29	AA	412	SQD	C15-C14-C13	2.51	127.14	114.42
22	AB	609	CLA	CAA-C2A-C3A	-2.50	105.92	112.78
22	AB	610	CLA	CAA-C2A-C3A	-2.50	105.93	112.78
22	AC	504	CLA	CAA-C2A-C3A	-2.50	105.93	112.78
22	AC	511	CLA	CMB-C2B-C1B	-2.50	124.62	128.46
22	AB	613	CLA	CED-O2D-CGD	2.50	121.59	115.94
22	BC	502	CLA	O2A-CGA-CBA	2.50	119.75	111.91
26	BZ	101	BCR	C12-C13-C14	-2.50	115.11	118.94
22	AB	614	CLA	C1-O2A-CGA	2.50	122.99	116.44
26	AC	514	BCR	C7-C8-C9	2.50	130.01	126.23
22	AB	610	CLA	CED-O2D-CGD	2.49	121.58	115.94
22	AC	511	CLA	C2A-C1A-CHA	2.49	128.22	123.86
22	AC	512	CLA	O2D-CGD-CBD	2.49	115.69	111.27
30	AE	102	LMG	O7-C8-C7	2.49	117.42	108.40
22	AA	403	CLA	CMB-C2B-C1B	-2.49	124.64	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	BF	101	SQD	C45-O47-C7	2.49	123.92	117.79
34	BE	101	HEM	CAB-C3B-C4B	2.49	136.05	124.47
22	BC	506	CLA	O2A-CGA-CBA	2.48	119.70	111.91
26	BA	410	BCR	C30-C25-C24	2.48	122.80	115.78
22	AC	507	CLA	O2D-CGD-CBD	2.48	115.68	111.27
26	BD	406	BCR	C15-C14-C13	2.48	130.85	127.31
26	AB	618	BCR	C8-C9-C10	-2.48	115.13	118.94
22	AC	505	CLA	CMB-C2B-C1B	-2.48	124.65	128.46
22	AC	509	CLA	C2A-C3A-C4A	2.48	105.88	101.87
26	AC	514	BCR	C23-C22-C21	-2.48	115.14	118.94
26	BZ	101	BCR	C36-C18-C19	2.48	121.98	118.08
22	BB	604	CLA	CMB-C2B-C1B	-2.48	124.65	128.46
26	BA	410	BCR	C8-C9-C10	-2.48	115.14	118.94
26	AC	515	BCR	C30-C25-C24	2.48	122.78	115.78
26	BB	621	BCR	C32-C1-C6	2.48	114.31	110.30
22	AB	612	CLA	C7-C6-C5	-2.48	106.64	113.36
29	AF	101	SQD	C45-O47-C7	2.47	123.88	117.79
30	BB	624	LMG	O6-C5-C6	2.47	112.58	106.44
30	BC	520	LMG	C7-O1-C1	-2.47	108.92	113.74
22	BB	616	CLA	CHD-C1D-ND	-2.47	122.19	124.45
22	BB	612	CLA	CAA-C2A-C3A	-2.47	106.02	112.78
26	BB	620	BCR	C35-C13-C12	2.47	121.96	118.08
26	BC	514	BCR	C37-C22-C23	2.47	121.96	118.08
22	AB	603	CLA	C7-C6-C5	-2.47	106.66	113.36
22	AC	513	CLA	CMB-C2B-C1B	-2.46	124.68	128.46
22	BC	510	CLA	O2D-CGD-CBD	2.46	115.65	111.27
34	AV	201	HEM	C4A-C3A-C2A	2.46	108.71	107.00
22	BC	510	CLA	C2A-C3A-C4A	2.46	105.85	101.87
29	AA	415	SQD	C34-C33-C32	2.46	126.93	114.42
22	BC	509	CLA	O2D-CGD-CBD	2.46	115.64	111.27
22	AB	611	CLA	O2D-CGD-CBD	2.46	115.64	111.27
27	BD	410	DGD	O6D-C5D-C6D	2.46	111.63	106.67
26	BC	514	BCR	C12-C13-C14	-2.46	115.17	118.94
22	BC	505	CLA	C2A-C1A-CHA	2.46	128.16	123.86
22	BB	617	CLA	C1-O2A-CGA	2.46	122.89	116.44
22	BB	607	CLA	C2A-C3A-C4A	2.46	105.84	101.87
29	BA	401	SQD	C36-C35-C34	2.46	126.90	114.42
29	BA	413	SQD	O47-C7-C8	2.46	116.79	111.50
26	AB	620	BCR	C8-C7-C6	2.45	134.10	127.20
29	BA	413	SQD	O8-S-O7	2.45	117.27	111.27
22	BB	613	CLA	C2A-C3A-C4A	2.45	105.83	101.87
29	BB	601	SQD	C3-C4-C5	-2.45	105.86	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BC	515	BCR	C24-C23-C22	2.45	129.94	126.23
22	AD	404	CLA	C2A-C3A-C4A	2.45	105.83	101.87
22	BD	402	CLA	C2A-C1A-CHA	2.45	128.14	123.86
22	AB	607	CLA	C2D-C1D-ND	2.45	111.91	110.10
22	AB	612	CLA	CMB-C2B-C1B	-2.45	124.70	128.46
22	AC	504	CLA	CMB-C2B-C1B	-2.45	124.70	128.46
24	BD	405	PL9	C27-C28-C29	-2.45	121.76	127.66
22	BB	614	CLA	O2D-CGD-CBD	2.45	115.62	111.27
23	BD	403	PHO	C4A-C3A-C2A	2.45	105.17	102.84
26	AB	618	BCR	C7-C8-C9	2.45	129.93	126.23
22	BB	613	CLA	CED-O2D-CGD	2.45	121.47	115.94
22	AD	402	CLA	CMB-C2B-C3B	2.44	129.25	124.68
22	BC	509	CLA	C7-C6-C5	-2.44	106.73	113.36
23	AA	405	PHO	C4A-C3A-C2A	2.44	105.16	102.84
28	BC	521	LHG	C5-O7-C7	-2.44	111.79	117.79
28	AC	521	LHG	C5-O7-C7	-2.44	111.79	117.79
26	AB	618	BCR	C36-C18-C19	2.44	121.91	118.08
27	AB	626	DGD	C3G-O3G-C1D	-2.43	108.98	113.74
26	BJ	102	BCR	C8-C9-C10	-2.43	115.21	118.94
30	BC	520	LMG	O8-C28-C29	2.43	119.53	111.91
24	BD	405	PL9	C10-C9-C11	2.43	119.36	115.27
22	BC	512	CLA	C2A-C1A-CHA	2.43	128.10	123.86
26	AB	619	BCR	C32-C1-C6	2.43	114.24	110.30
26	BK	102	BCR	C32-C1-C2	-2.43	99.20	108.91
26	AB	618	BCR	C32-C1-C6	2.43	114.23	110.30
26	BC	515	BCR	C37-C22-C23	2.43	121.90	118.08
22	BB	616	CLA	C1-C2-C3	2.42	130.23	126.04
30	AA	416	LMG	O6-C5-C6	2.42	112.46	106.44
24	AD	405	PL9	C35-C34-C36	2.42	119.34	115.27
22	AB	610	CLA	CMB-C2B-C3B	2.42	129.21	124.68
26	BD	406	BCR	C35-C13-C12	2.42	121.89	118.08
22	BC	508	CLA	C2D-C1D-ND	2.42	111.89	110.10
22	AB	602	CLA	C1-C2-C3	2.42	130.23	126.04
22	BC	503	CLA	O2D-CGD-CBD	2.42	115.56	111.27
26	AB	617	BCR	C12-C13-C14	-2.42	115.23	118.94
22	BA	403	CLA	CMB-C2B-C1B	-2.42	124.75	128.46
26	BK	102	BCR	C37-C22-C23	2.41	121.88	118.08
22	AC	512	CLA	CAA-C2A-C3A	-2.41	106.17	112.78
26	AZ	101	BCR	C12-C13-C14	-2.41	115.24	118.94
22	AA	402	CLA	CMB-C2B-C1B	-2.41	124.75	128.46
22	BA	407	CLA	CMB-C2B-C1B	-2.41	124.75	128.46
23	BD	403	PHO	CMB-C2B-C3B	2.41	129.19	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	603	CLA	O2D-CGD-CBD	2.41	115.56	111.27
26	AZ	101	BCR	C36-C18-C19	2.41	121.88	118.08
22	BA	405	CLA	CMD-C2D-C1D	2.41	128.96	124.71
22	BB	615	CLA	C1-C2-C3	2.41	130.21	126.04
27	AD	410	DGD	O6D-C5D-C6D	2.40	111.52	106.67
22	BA	403	CLA	CBA-CAA-C2A	2.40	120.95	113.86
22	BC	513	CLA	CMB-C2B-C1B	-2.40	124.77	128.46
22	AA	404	CLA	C2A-C3A-C4A	2.40	105.75	101.87
24	BD	405	PL9	C12-C13-C14	-2.40	121.88	127.66
22	AA	404	CLA	C1-C2-C3	2.40	130.19	126.04
22	AB	608	CLA	CMB-C2B-C1B	-2.40	124.78	128.46
32	BT	101	LMT	O1B-C1B-C2B	2.40	114.31	108.10
22	BD	404	CLA	C2A-C3A-C4A	2.40	105.74	101.87
22	AB	601	CLA	CMB-C2B-C1B	-2.40	124.78	128.46
26	BC	514	BCR	C23-C22-C21	-2.40	115.26	118.94
26	AA	409	BCR	C35-C13-C12	2.40	121.85	118.08
26	AB	618	BCR	C11-C10-C9	2.39	130.72	127.31
26	AK	102	BCR	C37-C22-C23	2.39	121.84	118.08
22	AB	615	CLA	C2A-C3A-C4A	2.39	105.73	101.87
29	BA	401	SQD	C15-C14-C13	2.39	126.55	114.42
26	AT	102	BCR	C36-C18-C19	2.39	121.84	118.08
22	AD	402	CLA	C2A-C1A-CHA	2.39	128.03	123.86
22	AB	607	CLA	C7-C6-C5	-2.38	106.88	113.36
22	AA	402	CLA	CBA-CAA-C2A	2.38	120.90	113.86
22	BA	405	CLA	C1-C2-C3	2.38	130.16	126.04
22	BC	502	CLA	CAA-C2A-C3A	-2.38	106.25	112.78
22	AC	509	CLA	CMB-C2B-C1B	-2.38	124.80	128.46
29	BB	601	SQD	C15-C14-C13	2.38	126.52	114.42
26	AH	101	BCR	C1-C6-C7	2.38	122.52	115.78
22	BB	608	CLA	CMB-C2B-C1B	-2.38	124.81	128.46
22	BB	616	CLA	CMB-C2B-C3B	2.38	129.13	124.68
24	AD	405	PL9	C10-C9-C11	2.38	119.27	115.27
29	BL	101	SQD	C3-C4-C5	-2.38	106.00	110.24
22	AB	613	CLA	C2A-C3A-C4A	2.38	105.71	101.87
22	BB	606	CLA	C7-C6-C5	-2.38	106.91	113.36
24	AD	405	PL9	C27-C28-C29	-2.38	121.94	127.66
26	BC	514	BCR	C1-C6-C7	2.37	122.50	115.78
29	AA	415	SQD	C45-O47-C7	2.37	123.64	117.79
22	AB	609	CLA	C1-C2-C3	2.37	130.15	126.04
29	BL	101	SQD	O47-C7-C8	2.37	116.62	111.50
26	BB	622	BCR	C8-C7-C6	2.37	133.86	127.20
30	AM	101	LMG	C7-O1-C1	-2.37	109.12	113.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BB	619	CLA	CMB-C2B-C1B	-2.37	124.83	128.46
26	BB	620	BCR	C12-C13-C14	-2.37	115.31	118.94
22	AC	505	CLA	C2A-C3A-C4A	2.36	105.69	101.87
26	AC	514	BCR	C37-C22-C23	2.36	121.80	118.08
23	AD	403	PHO	O1D-CGD-CBD	-2.36	120.80	124.74
26	BB	620	BCR	C16-C17-C18	2.36	130.68	127.31
22	AC	505	CLA	C2A-C1A-CHA	2.36	127.99	123.86
26	AT	102	BCR	C40-C30-C29	-2.36	99.47	108.91
27	AD	410	DGD	C2G-O2G-C1B	2.36	123.60	117.79
22	BB	607	CLA	CED-O2D-CGD	2.36	121.27	115.94
22	BB	610	CLA	C7-C6-C5	-2.36	106.95	113.36
29	AA	415	SQD	C15-C14-C13	2.36	126.39	114.42
22	BB	609	CLA	CMB-C2B-C1B	-2.36	124.84	128.46
26	BA	410	BCR	C34-C9-C8	2.36	121.79	118.08
22	AA	404	CLA	O2A-CGA-CBA	2.35	119.29	111.91
22	AC	508	CLA	CMB-C2B-C1B	-2.35	124.85	128.46
22	BB	617	CLA	C7-C6-C5	-2.35	106.97	113.36
22	AC	509	CLA	O2D-CGD-CBD	2.35	115.45	111.27
22	BD	404	CLA	O2D-CGD-CBD	2.35	115.44	111.27
22	BA	405	CLA	C2A-C3A-C4A	2.35	105.67	101.87
30	BB	623	LMG	C9-C8-C7	-2.35	106.23	111.79
22	BB	604	CLA	CAA-C2A-C3A	-2.35	106.35	112.78
22	AB	616	CLA	CMB-C2B-C1B	-2.35	124.85	128.46
22	AB	602	CLA	CMB-C2B-C3B	2.35	129.07	124.68
26	BX	101	BCR	C36-C18-C19	2.35	121.78	118.08
22	BC	512	CLA	CMB-C2B-C1B	-2.35	124.86	128.46
26	AT	102	BCR	C7-C8-C9	2.35	129.78	126.23
22	AB	614	CLA	C7-C6-C5	-2.35	106.98	113.36
22	AB	605	CLA	O2D-CGD-CBD	2.35	115.44	111.27
22	BC	505	CLA	CMB-C2B-C1B	-2.34	124.86	128.46
22	BD	402	CLA	C1-C2-C3	2.34	130.09	126.04
22	BB	614	CLA	CAA-C2A-C3A	-2.34	106.37	112.78
22	BB	612	CLA	O2A-CGA-CBA	2.34	119.25	111.91
26	AT	102	BCR	C35-C13-C12	2.34	121.76	118.08
27	BB	602	DGD	O3G-C1D-C2D	2.34	111.95	108.30
29	BA	401	SQD	C34-C33-C32	2.34	126.30	114.42
27	AC	517	DGD	O6D-C5D-C6D	2.34	111.38	106.67
30	AC	520	LMG	O8-C28-C29	2.34	119.24	111.91
22	AB	615	CLA	CMB-C2B-C1B	-2.34	124.87	128.46
23	AA	405	PHO	O1D-CGD-CBD	-2.34	120.85	124.74
26	AA	409	BCR	C30-C25-C24	2.34	122.39	115.78
27	AB	626	DGD	O6D-C5D-C6D	2.34	111.38	106.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BA	410	BCR	C16-C17-C18	2.34	130.64	127.31
22	AC	511	CLA	C2D-C1D-ND	2.34	111.83	110.10
22	AB	613	CLA	CHD-C1D-ND	-2.33	122.31	124.45
22	BA	405	CLA	O2A-CGA-CBA	2.33	119.23	111.91
27	AB	626	DGD	O3G-C1D-C2D	2.33	111.95	108.30
26	BJ	102	BCR	C31-C1-C2	2.33	118.23	108.91
27	BD	410	DGD	O6D-C5D-C4D	2.33	113.93	109.69
22	BC	511	CLA	CMB-C2B-C1B	-2.33	124.88	128.46
26	BZ	101	BCR	C19-C18-C17	-2.33	115.36	118.94
26	BX	101	BCR	C37-C22-C23	2.33	121.75	118.08
22	AD	404	CLA	CMB-C2B-C1B	-2.33	124.88	128.46
22	AB	609	CLA	O2A-CGA-CBA	2.33	119.22	111.91
22	BA	405	CLA	CMB-C2B-C1B	-2.33	124.89	128.46
26	BK	102	BCR	C8-C7-C6	2.33	133.74	127.20
22	AA	404	CLA	CMD-C2D-C1D	2.33	128.81	124.71
26	AB	618	BCR	C30-C25-C24	2.33	122.36	115.78
22	BB	613	CLA	CAA-C2A-C3A	-2.32	106.41	112.78
22	AC	502	CLA	O2D-CGD-CBD	2.32	115.40	111.27
26	AH	101	BCR	C23-C22-C21	-2.32	115.38	118.94
22	BB	615	CLA	C7-C6-C5	-2.32	107.05	113.36
26	AJ	102	BCR	C31-C1-C2	2.32	118.20	108.91
26	AT	102	BCR	C11-C10-C9	2.32	130.62	127.31
22	AC	506	CLA	CMB-C2B-C1B	-2.32	124.89	128.46
29	AD	409	SQD	O8-S-O7	2.32	116.95	111.27
29	BF	101	SQD	C15-C14-C13	2.32	126.21	114.42
26	AK	102	BCR	C8-C7-C6	2.32	133.72	127.20
22	AC	512	CLA	C2A-C1A-CHA	2.32	127.92	123.86
22	BB	611	CLA	CBA-CAA-C2A	2.32	120.71	113.86
22	BA	403	CLA	C6-C5-C3	2.32	119.53	113.45
22	BC	509	CLA	CMB-C2B-C1B	-2.32	124.90	128.46
29	BA	401	SQD	O5-C5-C4	2.31	113.90	109.69
24	AA	407	PL9	C53-C6-C1	2.31	119.72	114.99
22	AB	613	CLA	CMB-C2B-C3B	2.31	129.00	124.68
26	AB	618	BCR	C37-C22-C23	2.31	121.72	118.08
22	BB	611	CLA	C1-C2-C3	2.31	130.04	126.04
26	AC	514	BCR	C1-C6-C7	2.31	122.31	115.78
22	BB	605	CLA	CMB-C2B-C3B	2.31	128.99	124.68
26	BC	514	BCR	C7-C8-C9	2.31	129.72	126.23
22	BA	405	CLA	O2D-CGD-CBD	2.31	115.36	111.27
30	AM	101	LMG	O1-C1-C2	2.30	111.90	108.30
22	BB	613	CLA	CMB-C2B-C3B	2.30	128.98	124.68
22	AC	504	CLA	C2D-C1D-ND	2.30	111.80	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	614	CLA	CAA-C2A-C3A	-2.30	106.48	112.78
30	AE	102	LMG	O1-C1-C2	2.30	111.89	108.30
29	AA	412	SQD	O8-S-O9	-2.30	105.66	111.27
22	AA	402	CLA	C6-C5-C3	2.30	119.48	113.45
26	AB	618	BCR	C12-C13-C14	-2.30	115.42	118.94
22	BB	606	CLA	O2D-CGD-CBD	2.30	115.35	111.27
26	AH	101	BCR	C37-C22-C23	2.30	121.69	118.08
29	BD	409	SQD	O8-S-O7	2.29	116.88	111.27
22	BC	506	CLA	CMB-C2B-C1B	-2.29	124.94	128.46
22	AB	614	CLA	C2D-C1D-ND	2.29	111.79	110.10
22	AD	404	CLA	C1-C2-C3	2.29	130.01	126.04
30	BE	102	LMG	O7-C8-C7	2.29	116.70	108.40
22	BC	504	CLA	C2D-C1D-ND	2.29	111.79	110.10
26	BX	101	BCR	C1-C6-C7	2.29	122.26	115.78
22	AB	601	CLA	O2D-CGD-CBD	2.29	115.34	111.27
22	AB	611	CLA	C2A-C3A-C4A	2.29	105.57	101.87
22	BC	502	CLA	C2A-C3A-C4A	2.29	105.57	101.87
22	BC	502	CLA	O2D-CGD-CBD	2.29	115.34	111.27
34	BV	201	HEM	C1B-NB-C4B	2.29	107.44	105.07
22	BB	618	CLA	C2A-C3A-C4A	2.29	105.57	101.87
26	BC	514	BCR	C30-C25-C24	2.29	122.25	115.78
29	AA	412	SQD	C17-C16-C15	2.29	126.04	114.42
29	AF	101	SQD	C15-C14-C13	2.29	126.04	114.42
32	BB	603	LMT	O1B-C1B-C2B	2.29	114.02	108.10
22	BC	507	CLA	O2D-CGD-CBD	2.29	115.33	111.27
26	AB	618	BCR	C35-C13-C12	2.28	121.68	118.08
26	BX	101	BCR	C23-C22-C21	-2.28	115.44	118.94
24	BJ	101	PL9	C31-C29-C30	2.28	119.65	114.60
22	AC	502	CLA	CMB-C2B-C1B	-2.28	124.95	128.46
22	AB	612	CLA	C2A-C3A-C4A	2.28	105.56	101.87
26	AB	617	BCR	C36-C18-C19	2.28	121.67	118.08
26	AB	620	BCR	C32-C1-C6	2.28	114.00	110.30
22	AB	608	CLA	C6-C7-C8	2.28	123.29	115.92
22	AA	404	CLA	CMB-C2B-C1B	-2.28	124.96	128.46
22	AB	608	CLA	C2A-C3A-C4A	2.28	105.55	101.87
26	BC	515	BCR	C35-C13-C12	2.28	121.67	118.08
24	AJ	101	PL9	C31-C29-C30	2.28	119.63	114.60
22	BC	507	CLA	CMB-C2B-C1B	-2.28	124.97	128.46
22	BC	510	CLA	CAA-C2A-C3A	-2.28	106.55	112.78
23	AA	405	PHO	O2A-CGA-CBA	2.28	119.05	111.91
22	AB	608	CLA	C6-C5-C3	2.27	119.42	113.45
24	AJ	101	PL9	C53-C6-C1	2.27	119.64	114.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	615	CLA	C2A-C1A-CHA	2.27	127.83	123.86
23	AD	403	PHO	CMB-C2B-C3B	2.27	128.93	124.68
27	BD	410	DGD	C2G-O2G-C1B	2.27	123.38	117.79
26	AB	618	BCR	C20-C21-C22	2.27	130.55	127.31
22	AB	606	CLA	CBA-CAA-C2A	2.27	120.56	113.86
22	AC	503	CLA	O2D-CGD-CBD	2.27	115.30	111.27
26	AT	102	BCR	C8-C9-C10	-2.27	115.46	118.94
22	AB	604	CLA	C2A-C3A-C4A	2.27	105.53	101.87
32	AT	101	LMT	O1B-C4'-C3'	2.27	113.31	107.28
22	AB	610	CLA	C2A-C3A-C4A	2.27	105.53	101.87
26	BA	410	BCR	C35-C13-C12	2.27	121.65	118.08
26	AB	618	BCR	C40-C30-C29	-2.27	99.85	108.91
26	BB	622	BCR	C32-C1-C6	2.26	113.97	110.30
26	AC	515	BCR	C12-C13-C14	-2.26	115.47	118.94
22	BB	609	CLA	CBA-CAA-C2A	2.26	120.54	113.86
22	BA	407	CLA	CHD-C1D-ND	-2.26	122.38	124.45
22	AB	605	CLA	CMB-C2B-C1B	-2.26	124.99	128.46
22	AB	609	CLA	C2A-C3A-C4A	2.26	105.52	101.87
34	BE	101	HEM	C1B-NB-C4B	2.26	107.41	105.07
27	BH	101	DGD	C3G-O3G-C1D	-2.26	109.33	113.74
22	BB	610	CLA	C2D-C1D-ND	2.26	111.77	110.10
22	AB	604	CLA	CED-O2D-CGD	2.26	121.05	115.94
26	AA	409	BCR	C34-C9-C8	2.26	121.63	118.08
22	AC	502	CLA	CAA-C2A-C3A	-2.26	106.60	112.78
22	AC	512	CLA	C2A-C3A-C4A	2.25	105.51	101.87
22	BB	604	CLA	C2A-C1A-CHA	2.25	127.80	123.86
22	BC	502	CLA	CMB-C2B-C1B	-2.25	125.00	128.46
22	BB	618	CLA	CMB-C2B-C1B	-2.25	125.00	128.46
29	BA	413	SQD	C17-C16-C15	2.25	125.86	114.42
24	AJ	101	PL9	C17-C18-C19	-2.25	122.24	127.66
22	BB	604	CLA	O2D-CGD-CBD	2.25	115.27	111.27
26	AH	101	BCR	C32-C1-C6	2.25	113.95	110.30
34	AE	101	HEM	C1B-NB-C4B	2.25	107.40	105.07
22	AB	614	CLA	CMB-C2B-C3B	2.25	128.89	124.68
26	AC	515	BCR	C37-C22-C23	2.25	121.62	118.08
22	AA	403	CLA	C3C-C4C-NC	-2.25	108.05	110.57
29	BL	101	SQD	C15-C14-C13	2.25	125.84	114.42
22	BB	615	CLA	C2A-C3A-C4A	2.25	105.50	101.87
26	BK	102	BCR	C23-C22-C21	-2.25	115.49	118.94
22	AB	601	CLA	C2A-C1A-CHA	2.25	127.79	123.86
22	AA	404	CLA	O2D-CGD-CBD	2.25	115.26	111.27
22	BB	611	CLA	C2A-C3A-C4A	2.24	105.49	101.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	606	CLA	C2A-C3A-C4A	2.24	105.49	101.87
22	AB	608	CLA	CBA-CAA-C2A	2.24	120.47	113.86
22	BB	607	CLA	C1-C2-C3	2.24	129.91	126.04
22	AC	503	CLA	CMB-C2B-C1B	-2.24	125.03	128.46
22	BC	509	CLA	C6-C5-C3	2.24	119.32	113.45
27	BC	517	DGD	O6D-C5D-C6D	2.24	111.18	106.67
22	AB	606	CLA	CMB-C2B-C1B	-2.23	125.03	128.46
29	AA	415	SQD	O8-S-O7	2.23	116.73	111.27
22	BB	613	CLA	C12-C11-C10	-2.23	102.98	113.24
30	AB	621	LMG	C9-C8-C7	-2.23	106.51	111.79
26	AZ	101	BCR	C1-C6-C7	2.23	122.09	115.78
22	BB	611	CLA	C6-C5-C3	2.23	119.31	113.45
24	AJ	101	PL9	C15-C14-C16	2.23	119.02	115.27
26	AH	101	BCR	C36-C18-C19	2.23	121.59	118.08
24	BJ	101	PL9	C12-C13-C14	-2.23	122.29	127.66
22	BC	505	CLA	C2A-C3A-C4A	2.23	105.47	101.87
22	AC	509	CLA	C6-C5-C3	2.23	119.30	113.45
26	AT	102	BCR	C12-C13-C14	-2.23	115.52	118.94
22	BC	508	CLA	CMB-C2B-C1B	-2.23	125.04	128.46
24	BJ	101	PL9	C53-C6-C1	2.23	119.54	114.99
22	AC	504	CLA	CED-O2D-CGD	2.23	120.97	115.94
22	AB	601	CLA	CAA-C2A-C3A	-2.23	106.68	112.78
22	BC	509	CLA	C12-C11-C10	-2.23	103.01	113.24
29	BD	409	SQD	C15-C14-C13	2.22	125.71	114.42
26	BZ	101	BCR	C34-C9-C8	2.22	121.58	118.08
22	BB	609	CLA	C2A-C1A-CHA	2.22	127.74	123.86
27	AH	102	DGD	C3G-O3G-C1D	-2.22	109.41	113.74
22	BC	507	CLA	CMB-C2B-C3B	2.21	128.82	124.68
24	BD	405	PL9	C22-C23-C24	-2.21	122.33	127.66
26	AT	102	BCR	C19-C18-C17	-2.21	115.55	118.94
24	AD	405	PL9	C22-C23-C24	-2.21	122.33	127.66
22	BC	504	CLA	C2A-C3A-C4A	2.21	105.44	101.87
27	BA	411	DGD	C3G-O3G-C1D	-2.21	109.42	113.74
22	AB	610	CLA	C12-C11-C10	-2.21	103.08	113.24
24	AA	407	PL9	C41-C39-C40	2.21	119.48	114.60
22	BB	608	CLA	CMD-C2D-C1D	2.21	128.60	124.71
22	BB	618	CLA	C2A-C1A-CHA	2.21	127.72	123.86
23	AA	405	PHO	C6-C5-C3	2.21	119.24	113.45
26	BK	102	BCR	C40-C30-C25	2.21	113.88	110.30
26	BA	410	BCR	C23-C22-C21	-2.21	115.56	118.94
22	BB	614	CLA	CMB-C2B-C1B	-2.20	125.08	128.46
23	AA	405	PHO	C1-O2A-CGA	2.20	122.23	116.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	604	CLA	C2A-C1A-CHA	2.20	127.71	123.86
26	BB	622	BCR	C30-C25-C24	2.20	122.01	115.78
26	BJ	102	BCR	C34-C9-C8	2.20	121.55	118.08
22	BB	617	CLA	CMB-C2B-C3B	2.20	128.80	124.68
22	BC	513	CLA	CMB-C2B-C3B	2.20	128.80	124.68
22	BD	402	CLA	CHD-C1D-ND	-2.20	122.43	124.45
22	AB	605	CLA	C2A-C3A-C4A	2.20	105.42	101.87
22	AC	504	CLA	C2A-C3A-C4A	2.20	105.42	101.87
22	BB	605	CLA	C1-C2-C3	2.20	129.85	126.04
22	BB	607	CLA	CMB-C2B-C1B	-2.20	125.08	128.46
26	BC	515	BCR	C36-C18-C19	2.20	121.54	118.08
22	AC	502	CLA	C2A-C3A-C4A	2.19	105.41	101.87
22	AC	512	CLA	C12-C11-C10	-2.19	103.16	113.24
22	BC	503	CLA	CMB-C2B-C1B	-2.19	125.09	128.46
22	BD	404	CLA	CMD-C2D-C1D	2.19	128.58	124.71
26	AT	102	BCR	C37-C22-C23	2.19	121.53	118.08
22	AC	509	CLA	C12-C11-C10	-2.19	103.18	113.24
22	BA	407	CLA	CMD-C2D-C1D	2.19	128.57	124.71
22	AB	613	CLA	CAA-C2A-C3A	-2.19	106.78	112.78
22	AB	604	CLA	CMB-C2B-C1B	-2.19	125.10	128.46
22	AC	512	CLA	CMB-C2B-C1B	-2.19	125.10	128.46
22	AC	504	CLA	CMD-C2D-C1D	2.19	128.57	124.71
30	BE	102	LMG	C8-O7-C10	2.19	123.18	117.79
22	BC	506	CLA	C2A-C3A-C4A	2.19	105.40	101.87
22	AA	406	CLA	C2A-C3A-C4A	2.19	105.40	101.87
26	BK	102	BCR	C36-C18-C19	2.19	121.52	118.08
26	AT	102	BCR	C30-C25-C24	2.18	121.96	115.78
22	BA	404	CLA	C3C-C4C-NC	-2.18	108.12	110.57
26	BB	621	BCR	C35-C13-C12	2.18	121.52	118.08
26	AC	514	BCR	C30-C25-C24	2.18	121.95	115.78
22	AB	604	CLA	CAA-C2A-C3A	-2.18	106.80	112.78
23	BA	406	PHO	O2A-CGA-CBA	2.18	118.76	111.91
22	BB	618	CLA	CMD-C2D-C1D	2.18	128.56	124.71
23	BD	403	PHO	O1D-CGD-CBD	-2.18	121.10	124.74
26	BK	102	BCR	C19-C18-C17	-2.18	115.59	118.94
22	AB	607	CLA	CMD-C2D-C1D	2.18	128.56	124.71
22	BC	507	CLA	CMD-C2D-C1D	2.18	128.56	124.71
26	BC	515	BCR	C12-C13-C14	-2.18	115.59	118.94
22	BD	402	CLA	C12-C11-C10	-2.18	103.22	113.24
30	AE	102	LMG	C9-C8-C7	-2.18	106.63	111.79
27	AA	410	DGD	C3G-O3G-C1D	-2.18	109.48	113.74
22	AA	406	CLA	CMB-C2B-C1B	-2.18	125.11	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AT	102	BCR	C32-C1-C6	2.18	113.83	110.30
22	BC	507	CLA	CAA-C2A-C3A	-2.18	106.81	112.78
22	AB	602	CLA	C2A-C3A-C4A	2.18	105.39	101.87
29	AD	409	SQD	C15-C14-C13	2.18	125.48	114.42
22	BB	609	CLA	C2D-C1D-ND	2.18	111.71	110.10
22	BB	619	CLA	CBA-CAA-C2A	2.18	120.29	113.86
27	AA	410	DGD	C3G-C2G-C1G	-2.18	106.64	111.79
22	AB	601	CLA	C2A-C3A-C4A	2.18	105.38	101.87
26	AA	409	BCR	C8-C9-C10	-2.17	115.60	118.94
22	BD	404	CLA	C7-C6-C5	-2.17	107.46	113.36
22	BA	407	CLA	O2D-CGD-CBD	2.17	115.13	111.27
22	AB	609	CLA	CMB-C2B-C1B	-2.17	125.13	128.46
22	AB	611	CLA	CAA-C2A-C3A	-2.17	106.84	112.78
22	AC	508	CLA	C1-C2-C3	2.17	129.79	126.04
26	AC	515	BCR	C36-C18-C19	2.17	121.49	118.08
22	AC	508	CLA	C2A-C3A-C4A	2.17	105.37	101.87
22	AB	611	CLA	C6-C5-C3	2.17	119.14	113.45
22	BA	407	CLA	C2A-C3A-C4A	2.17	105.37	101.87
22	BB	610	CLA	CMB-C2B-C1B	-2.17	125.13	128.46
29	AF	101	SQD	C32-C31-C30	2.17	129.86	113.42
34	BE	101	HEM	C4D-ND-C1D	2.16	107.31	105.07
22	BC	508	CLA	C2A-C3A-C4A	2.16	105.36	101.87
22	AD	404	CLA	CMD-C2D-C1D	2.16	128.53	124.71
22	AC	506	CLA	C2A-C3A-C4A	2.16	105.36	101.87
22	BC	512	CLA	C2A-C3A-C4A	2.16	105.36	101.87
22	BB	610	CLA	CMD-C2D-C1D	2.16	128.52	124.71
22	AC	501	CLA	C12-C11-C10	-2.16	103.30	113.24
34	AV	201	HEM	CAB-C3B-C4B	2.16	134.54	124.47
26	AB	618	BCR	C34-C9-C8	2.16	121.48	118.08
22	BB	613	CLA	C6-C5-C3	2.16	119.12	113.45
23	BA	406	PHO	C1-O2A-CGA	2.16	122.11	116.44
22	BC	501	CLA	C12-C11-C10	-2.16	103.31	113.24
22	BB	606	CLA	C1-C2-C3	2.16	129.78	126.04
22	BB	610	CLA	C2A-C3A-C4A	2.16	105.36	101.87
22	BB	605	CLA	C12-C11-C10	-2.16	103.31	113.24
22	BA	407	CLA	CMB-C2B-C3B	2.16	128.72	124.68
26	BB	622	BCR	C1-C6-C7	2.16	121.89	115.78
26	BZ	101	BCR	C1-C6-C7	2.16	121.89	115.78
22	AB	613	CLA	CMD-C2D-C1D	2.16	128.52	124.71
30	AB	623	LMG	O6-C5-C6	2.16	111.80	106.44
26	AC	514	BCR	C40-C30-C25	2.16	113.80	110.30
22	BB	607	CLA	C2A-C1A-CHA	2.16	127.63	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AC	506	CLA	O2D-CGD-CBD	2.16	115.10	111.27
22	BA	404	CLA	C6-C5-C3	2.16	119.11	113.45
22	BC	503	CLA	CMD-C2D-C1D	2.16	128.51	124.71
27	AA	410	DGD	C6D-C5D-C4D	2.16	116.60	112.09
22	BB	612	CLA	C2A-C3A-C4A	2.16	105.35	101.87
22	BC	501	CLA	C2A-C3A-C4A	2.16	105.35	101.87
22	AC	511	CLA	C12-C11-C10	-2.15	103.34	113.24
22	BB	605	CLA	C2A-C3A-C4A	2.15	105.35	101.87
22	AA	403	CLA	CHD-C1D-ND	-2.15	122.48	124.45
29	BA	413	SQD	O8-S-O9	-2.15	106.02	111.27
26	BA	410	BCR	C36-C18-C19	2.15	121.47	118.08
23	AA	405	PHO	CMA-C3A-C4A	-2.15	109.67	114.38
22	BC	503	CLA	C1-O2A-CGA	2.15	122.09	116.44
32	AB	625	LMT	C1-O1'-C1'	-2.15	110.28	113.84
24	BA	408	PL9	C41-C39-C40	2.15	119.35	114.60
26	AB	619	BCR	C1-C6-C7	2.15	121.86	115.78
27	AA	410	DGD	C6D-O5D-C1E	2.15	117.94	113.74
22	BB	612	CLA	CMB-C2B-C1B	-2.15	125.16	128.46
22	AB	615	CLA	CHD-C1D-ND	-2.15	122.48	124.45
34	AE	101	HEM	CMD-C2D-C1D	2.15	128.31	125.04
26	AJ	102	BCR	C3-C4-C5	2.15	117.91	114.08
26	AK	102	BCR	C19-C18-C17	-2.15	115.65	118.94
22	AC	501	CLA	C1-C2-C3	2.15	129.75	126.04
22	BB	619	CLA	C2A-C1A-CHA	2.15	127.61	123.86
29	BF	101	SQD	C32-C31-C30	2.15	129.71	113.42
22	AB	606	CLA	C2A-C1A-CHA	2.14	127.61	123.86
26	AA	409	BCR	C1-C6-C7	2.14	121.84	115.78
22	BB	616	CLA	C2D-C1D-ND	2.14	111.68	110.10
22	BC	511	CLA	C2D-C1D-ND	2.14	111.68	110.10
22	AB	603	CLA	C2A-C3A-C4A	2.14	105.33	101.87
22	BB	614	CLA	C2A-C3A-C4A	2.14	105.33	101.87
26	AB	620	BCR	C16-C17-C18	2.14	130.36	127.31
22	AD	404	CLA	CHD-C1D-ND	-2.14	122.49	124.45
22	BB	611	CLA	C6-C7-C8	2.14	122.83	115.92
22	AC	510	CLA	C2D-C1D-ND	2.14	111.68	110.10
22	AB	614	CLA	C16-C15-C13	2.14	122.83	115.92
22	AC	501	CLA	C2A-C1A-CHA	2.14	127.59	123.86
29	BA	401	SQD	O48-C23-O10	-2.14	118.20	123.59
26	BC	514	BCR	C11-C10-C9	2.14	130.36	127.31
34	BE	101	HEM	CMD-C2D-C1D	2.14	128.29	125.04
22	BB	611	CLA	CMB-C2B-C3B	2.14	128.67	124.68
22	BA	403	CLA	C2A-C3A-C4A	2.14	105.32	101.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AB	613	CLA	C1-C2-C3	2.13	129.73	126.04
32	BT	101	LMT	O1B-C4'-C3'	2.13	112.96	107.28
24	AJ	101	PL9	C12-C13-C14	-2.13	122.52	127.66
30	AC	520	LMG	C7-O1-C1	-2.13	109.58	113.74
26	BX	101	BCR	C34-C9-C8	2.13	121.43	118.08
22	AD	402	CLA	CHD-C1D-ND	-2.13	122.50	124.45
22	AC	507	CLA	CMB-C2B-C1B	-2.13	125.19	128.46
22	BB	617	CLA	CAA-C2A-C3A	-2.13	106.95	112.78
26	AB	618	BCR	C16-C17-C18	2.13	130.35	127.31
22	BD	402	CLA	CMD-C2D-C1D	2.13	128.46	124.71
27	BA	411	DGD	C6D-C5D-C4D	2.13	116.53	112.09
22	BC	511	CLA	C12-C11-C10	-2.13	103.47	113.24
22	BC	501	CLA	C1-C2-C3	2.12	129.72	126.04
24	BJ	101	PL9	C15-C14-C16	2.12	118.84	115.27
26	AK	102	BCR	C40-C30-C25	2.12	113.74	110.30
22	AC	503	CLA	CMD-C2D-C1D	2.12	128.45	124.71
22	AD	402	CLA	C12-C11-C10	-2.12	103.49	113.24
22	AD	404	CLA	C2A-C1A-CHA	2.12	127.57	123.86
26	BB	621	BCR	C7-C8-C9	2.12	129.44	126.23
27	BC	517	DGD	C6E-C5E-C4E	-2.12	108.04	113.00
22	BB	611	CLA	O2D-CGD-CBD	2.12	115.03	111.27
26	AB	620	BCR	C30-C25-C24	2.12	121.77	115.78
22	AB	616	CLA	C2A-C1A-CHA	2.12	127.56	123.86
22	AC	506	CLA	CMD-C2D-C1D	2.12	128.44	124.71
26	BB	622	BCR	C37-C22-C23	2.12	121.41	118.08
22	AC	510	CLA	CMA-C3A-C2A	-2.12	105.29	113.83
32	BB	625	LMT	C6'-C5'-C4'	-2.12	107.17	113.33
26	AK	102	BCR	C36-C18-C19	2.11	121.41	118.08
22	AB	602	CLA	CMD-C2D-C1D	2.11	128.44	124.71
26	BZ	101	BCR	C15-C16-C17	-2.11	119.15	123.47
32	AT	101	LMT	C1B-O1B-C4'	-2.11	112.74	117.96
22	AC	501	CLA	C2A-C3A-C4A	2.11	105.28	101.87
26	BB	621	BCR	C1-C6-C7	2.11	121.75	115.78
26	AT	102	BCR	C20-C21-C22	2.11	130.32	127.31
22	BB	609	CLA	C2A-C3A-C4A	2.11	105.27	101.87
22	BA	403	CLA	CMD-C2D-C1D	2.11	128.43	124.71
22	BD	402	CLA	O2D-CGD-CBD	2.11	115.01	111.27
29	BF	101	SQD	C17-C16-C15	2.11	125.12	114.42
24	BD	405	PL9	C32-C33-C34	-2.11	122.59	127.66
26	BA	410	BCR	C12-C13-C14	-2.11	115.71	118.94
30	BI	101	LMG	O6-C1-C2	2.11	114.81	110.35
22	BC	508	CLA	C2A-C1A-CHA	2.11	127.54	123.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AC	513	CLA	CBA-CAA-C2A	2.11	120.08	113.86
27	AC	517	DGD	C6E-C5E-C4E	-2.10	108.07	113.00
22	BC	501	CLA	CBA-CAA-C2A	2.10	120.08	113.86
22	BB	615	CLA	CMB-C2B-C1B	-2.10	125.23	128.46
26	AJ	102	BCR	C28-C27-C26	2.10	117.83	114.08
22	AC	508	CLA	C2A-C1A-CHA	2.10	127.54	123.86
22	BC	507	CLA	C2A-C3A-C4A	2.10	105.26	101.87
22	AB	608	CLA	C1-C2-C3	2.10	129.68	126.04
22	AC	510	CLA	CMB-C2B-C1B	-2.10	125.23	128.46
22	AC	507	CLA	C2A-C3A-C4A	2.10	105.26	101.87
22	AC	508	CLA	C2D-C1D-ND	2.10	111.65	110.10
27	AC	517	DGD	C6D-C5D-C4D	2.10	116.48	112.09
26	BD	406	BCR	C16-C17-C18	2.10	130.31	127.31
29	BL	101	SQD	C17-C16-C15	2.10	125.08	114.42
22	BD	404	CLA	CMB-C2B-C1B	-2.10	125.24	128.46
22	AA	403	CLA	C1-C2-C3	2.10	129.67	126.04
24	BA	408	PL9	C37-C38-C39	-2.10	120.58	127.75
32	AB	627	LMT	O1B-C1B-C2B	2.10	113.53	108.10
26	AB	619	BCR	C37-C22-C23	2.10	121.38	118.08
22	AC	511	CLA	CMB-C2B-C3B	2.09	128.60	124.68
29	AF	101	SQD	O47-C7-C8	2.09	116.01	111.50
22	AB	611	CLA	CMB-C2B-C1B	-2.09	125.25	128.46
26	BD	406	BCR	C7-C8-C9	2.09	129.40	126.23
22	AB	603	CLA	C1-C2-C3	2.09	129.66	126.04
22	BC	506	CLA	CMD-C2D-C1D	2.09	128.40	124.71
22	AB	612	CLA	CAA-C2A-C3A	-2.09	107.05	112.78
22	BB	604	CLA	C2A-C3A-C4A	2.09	105.25	101.87
26	BX	101	BCR	C32-C1-C6	2.09	113.69	110.30
24	AA	407	PL9	C37-C38-C39	-2.09	120.60	127.75
22	BC	508	CLA	CMD-C2D-C1D	2.09	128.40	124.71
22	BB	606	CLA	CMB-C2B-C3B	2.09	128.59	124.68
32	BB	625	LMT	C1'-O5'-C5'	-2.09	109.58	113.69
22	AB	607	CLA	CMB-C2B-C1B	-2.09	125.25	128.46
26	AC	514	BCR	C11-C10-C9	2.09	130.29	127.31
22	AC	507	CLA	C12-C11-C10	-2.09	103.65	113.24
22	BB	618	CLA	CHD-C1D-ND	-2.09	122.54	124.45
29	AF	101	SQD	C13-C12-C11	2.09	125.02	114.42
22	AD	404	CLA	C7-C6-C5	-2.09	107.69	113.36
22	AB	602	CLA	C12-C11-C10	-2.09	103.65	113.24
22	AB	609	CLA	C1-O2A-CGA	2.09	121.92	116.44
22	BC	505	CLA	C1-C2-C3	2.09	129.65	126.04
26	BC	515	BCR	C23-C22-C21	-2.09	115.74	118.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BC	501	CLA	C2A-C1A-CHA	2.09	127.50	123.86
29	BF	101	SQD	O48-C46-C45	2.08	114.50	108.43
26	BD	406	BCR	C32-C1-C6	2.08	113.68	110.30
26	AB	620	BCR	C1-C6-C7	2.08	121.67	115.78
26	AD	406	BCR	C36-C18-C19	2.08	121.36	118.08
30	BM	102	LMG	C7-O1-C1	-2.08	109.67	113.74
22	BB	609	CLA	CMB-C2B-C3B	2.08	128.57	124.68
32	AB	624	LMT	C1'-O5'-C5'	-2.08	109.60	113.69
26	AB	618	BCR	C19-C18-C17	-2.08	115.75	118.94
34	BV	201	HEM	CAB-C3B-C4B	2.08	134.16	124.47
26	BB	620	BCR	C19-C18-C17	-2.08	115.75	118.94
22	AB	614	CLA	C6-C5-C3	2.08	118.91	113.45
22	AB	616	CLA	C6-C5-C3	2.08	118.91	113.45
22	AA	403	CLA	C6-C5-C3	2.08	118.91	113.45
32	AB	624	LMT	C6'-C5'-C4'	-2.08	107.28	113.33
26	BB	621	BCR	C37-C22-C23	2.08	121.35	118.08
22	AB	605	CLA	CMD-C2D-C1D	2.08	128.37	124.71
22	BB	607	CLA	CAA-C2A-C3A	-2.08	107.09	112.78
26	AA	409	BCR	C36-C18-C19	2.08	121.35	118.08
22	AA	406	CLA	CMD-C2D-C1D	2.07	128.37	124.71
29	AA	415	SQD	O48-C23-O10	-2.07	118.36	123.59
22	AA	404	CLA	CMB-C2B-C3B	2.07	128.56	124.68
22	BB	617	CLA	C16-C15-C13	2.07	122.62	115.92
22	BB	604	CLA	C1-O2A-CGA	2.07	121.88	116.44
22	AA	403	CLA	C2A-C1A-CHA	2.07	127.48	123.86
26	AC	514	BCR	C36-C18-C19	2.07	121.34	118.08
22	AA	406	CLA	CHD-C1D-ND	-2.07	122.55	124.45
22	AB	609	CLA	CMA-C3A-C2A	-2.07	105.48	113.83
24	AA	407	PL9	C32-C33-C34	-2.07	122.68	127.66
22	AC	513	CLA	CMB-C2B-C3B	2.07	128.55	124.68
22	BC	503	CLA	C2A-C3A-C4A	2.07	105.21	101.87
22	AB	607	CLA	C2A-C3A-C4A	2.07	105.21	101.87
24	BA	408	PL9	C32-C33-C34	-2.07	122.69	127.66
29	AA	415	SQD	O5-C5-C4	2.07	113.44	109.69
22	BB	612	CLA	C1-O2A-CGA	2.07	121.86	116.44
29	BB	601	SQD	C17-C16-C15	2.06	124.91	114.42
22	AB	616	CLA	CBA-CAA-C2A	2.06	119.95	113.86
22	AA	403	CLA	C7-C6-C5	-2.06	107.75	113.36
22	AB	614	CLA	C2A-C3A-C4A	2.06	105.20	101.87
22	BB	612	CLA	C2A-C1A-CHA	2.06	127.47	123.86
29	BA	401	SQD	C13-C12-C11	2.06	124.90	114.42
29	AF	101	SQD	O5-C5-C4	2.06	113.44	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AF	101	SQD	O48-C46-C45	2.06	114.44	108.43
32	BT	101	LMT	C1B-O1B-C4'	-2.06	112.86	117.96
22	BC	508	CLA	C1-C2-C3	2.06	129.61	126.04
22	AB	603	CLA	C2A-C1A-CHA	2.06	127.46	123.86
22	AB	608	CLA	C2D-C1D-ND	2.06	111.62	110.10
22	AB	615	CLA	C2D-C1D-ND	2.06	111.62	110.10
30	AM	101	LMG	O8-C9-C8	-2.06	102.44	108.43
22	AB	602	CLA	C2A-C1A-CHA	2.06	127.46	123.86
23	BA	406	PHO	CMB-C2B-C3B	2.06	128.53	124.68
26	BD	406	BCR	C36-C18-C19	2.06	121.32	118.08
22	AA	402	CLA	C2A-C3A-C4A	2.05	105.19	101.87
26	AB	620	BCR	C40-C30-C25	2.05	113.63	110.30
22	BC	502	CLA	C1-O2A-CGA	2.05	121.83	116.44
22	BC	510	CLA	CMB-C2B-C1B	-2.05	125.31	128.46
22	AC	510	CLA	CHD-C1D-ND	-2.05	122.57	124.45
26	AT	102	BCR	C34-C9-C8	2.05	121.31	118.08
22	AC	512	CLA	C2D-C1D-ND	2.05	111.61	110.10
32	BI	102	LMT	C1B-O1B-C4'	-2.05	112.89	117.96
22	BB	608	CLA	CMB-C2B-C3B	2.05	128.51	124.68
22	BB	617	CLA	C6-C5-C3	2.05	118.83	113.45
22	BC	511	CLA	CMB-C2B-C3B	2.05	128.51	124.68
22	BA	404	CLA	C2A-C1A-CHA	2.05	127.44	123.86
22	AB	610	CLA	C6-C5-C3	2.05	118.83	113.45
26	AZ	101	BCR	C34-C9-C8	2.05	121.31	118.08
22	AB	615	CLA	CMB-C2B-C3B	2.05	128.51	124.68
24	AD	405	PL9	C32-C33-C34	-2.05	122.73	127.66
22	AC	511	CLA	C2A-C3A-C4A	2.05	105.18	101.87
27	AC	516	DGD	O3E-C3E-C2E	-2.05	105.62	110.35
22	BB	607	CLA	C2D-C1D-ND	2.05	111.61	110.10
26	AC	515	BCR	C32-C1-C6	2.05	113.62	110.30
26	AD	406	BCR	C16-C17-C18	2.05	130.23	127.31
26	AC	514	BCR	C32-C1-C2	-2.05	100.73	108.91
22	BC	512	CLA	C12-C11-C10	-2.04	103.85	113.24
22	BB	615	CLA	CAA-C2A-C3A	-2.04	107.18	112.78
26	BD	406	BCR	C8-C9-C10	-2.04	115.81	118.94
22	BB	618	CLA	C12-C11-C10	-2.04	103.85	113.24
22	AC	504	CLA	C12-C11-C10	-2.04	103.86	113.24
22	AC	511	CLA	C1-O2A-CGA	2.04	121.80	116.44
23	BD	403	PHO	C1-O2A-CGA	2.04	121.80	116.44
22	AC	513	CLA	O2D-CGD-CBD	2.04	114.89	111.27
29	BF	101	SQD	C13-C12-C11	2.04	124.79	114.42
30	BM	102	LMG	O1-C1-C2	2.04	111.49	108.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	408	PL9	C53-C6-C1	2.04	119.16	114.99
22	AB	609	CLA	C6-C5-C3	2.04	118.80	113.45
22	AC	506	CLA	CHD-C1D-ND	-2.04	122.58	124.45
27	AH	102	DGD	O3G-C1D-C2D	2.04	111.48	108.30
22	AC	513	CLA	C12-C11-C10	-2.04	103.87	113.24
26	AB	620	BCR	C12-C13-C14	-2.04	115.81	118.94
22	BB	610	CLA	CED-O2D-CGD	2.04	120.55	115.94
29	BF	101	SQD	O47-C7-C8	2.04	115.89	111.50
22	AA	402	CLA	C16-C15-C13	2.04	122.50	115.92
27	BA	411	DGD	C3G-C2G-C1G	-2.04	106.97	111.79
26	AD	406	BCR	C34-C9-C8	2.04	121.29	118.08
22	BB	614	CLA	CMD-C2D-C1D	2.04	128.30	124.71
29	BA	413	SQD	O3-C3-C2	-2.04	105.64	110.35
22	BB	613	CLA	C1-O2A-CGA	2.03	121.78	116.44
29	AF	101	SQD	C17-C16-C15	2.03	124.75	114.42
22	BB	605	CLA	C2A-C1A-CHA	2.03	127.42	123.86
26	AB	617	BCR	C16-C17-C18	2.03	130.21	127.31
22	AB	603	CLA	CMB-C2B-C3B	2.03	128.48	124.68
30	BA	414	LMG	C9-C8-C7	-2.03	106.98	111.79
22	AC	507	CLA	CAA-C2A-C3A	-2.03	107.21	112.78
22	BB	608	CLA	O2D-CGD-CBD	2.03	114.88	111.27
24	BA	408	PL9	C7-C3-C4	2.03	118.53	116.88
26	AA	409	BCR	C12-C13-C14	-2.03	115.83	118.94
22	BD	404	CLA	C1-C2-C3	2.03	129.55	126.04
22	BB	606	CLA	C2A-C3A-C4A	2.03	105.15	101.87
22	AB	607	CLA	CED-O2D-CGD	2.03	120.52	115.94
22	BB	617	CLA	CMD-C2D-C1D	2.03	128.28	124.71
26	BB	620	BCR	C36-C18-C19	2.03	121.27	118.08
22	BB	605	CLA	CMD-C2D-C1D	2.03	128.28	124.71
22	AC	507	CLA	CMD-C2D-C1D	2.02	128.28	124.71
26	BZ	101	BCR	C7-C8-C9	2.02	129.29	126.23
22	AC	513	CLA	C2A-C3A-C4A	2.02	105.14	101.87
22	BC	505	CLA	CMB-C2B-C3B	2.02	128.46	124.68
22	AC	501	CLA	CBA-CAA-C2A	2.02	119.83	113.86
22	AC	509	CLA	C2A-C1A-CHA	2.02	127.39	123.86
26	AZ	101	BCR	C7-C8-C9	2.02	129.29	126.23
22	BB	605	CLA	C2D-C1D-ND	2.02	111.59	110.10
24	BD	405	PL9	C53-C6-C1	2.02	119.11	114.99
22	BB	612	CLA	CMA-C3A-C2A	-2.02	105.69	113.83
26	BB	622	BCR	C16-C17-C18	2.02	130.19	127.31
22	BC	504	CLA	C12-C11-C10	-2.02	103.97	113.24
29	AA	412	SQD	C20-C19-C18	2.01	124.65	114.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	BC	513	CLA	CMD-C2D-C1D	2.01	128.26	124.71
24	BJ	101	PL9	C27-C28-C29	-2.01	120.87	127.75
22	AC	507	CLA	CMB-C2B-C3B	2.01	128.44	124.68
26	BA	410	BCR	C1-C6-C7	2.01	121.47	115.78
34	AE	101	HEM	C4D-ND-C1D	2.01	107.15	105.07
26	BA	410	BCR	C40-C30-C25	2.01	113.56	110.30
22	BC	504	CLA	CMB-C2B-C3B	2.01	128.44	124.68
22	BD	404	CLA	C2A-C1A-CHA	2.01	127.37	123.86
26	AH	101	BCR	C34-C9-C8	2.01	121.24	118.08
27	AC	517	DGD	O3G-C3G-C2G	2.01	115.74	110.90
23	AA	405	PHO	CMB-C2B-C3B	2.01	128.43	124.68
29	BA	401	SQD	C17-C16-C15	2.01	124.61	114.42
30	BM	102	LMG	O8-C9-C8	-2.01	102.59	108.43
22	AB	601	CLA	CMB-C2B-C3B	2.01	128.43	124.68
34	AV	201	HEM	C4D-ND-C1D	2.01	107.14	105.07
26	BJ	102	BCR	C28-C27-C26	2.00	117.66	114.08
26	AD	406	BCR	C20-C21-C22	2.00	130.17	127.31
22	BB	615	CLA	CBA-CAA-C2A	2.00	119.78	113.86
29	BB	601	SQD	O48-C23-O10	-2.00	118.53	123.59
22	BC	511	CLA	C2A-C3A-C4A	2.00	105.11	101.87
34	AV	201	HEM	CMA-C3A-C4A	-2.00	125.39	128.46
26	BA	410	BCR	C32-C1-C6	2.00	113.55	110.30
29	BA	401	SQD	O8-S-O7	2.00	116.17	111.27
22	BB	616	CLA	CMD-C2D-C1D	2.00	128.24	124.71
30	AA	413	LMG	C9-C8-C7	-2.00	107.05	111.79
22	BC	504	CLA	CHD-C1D-ND	-2.00	122.62	124.45

All (156) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	AA	402	CLA	ND
22	AA	403	CLA	ND
22	AA	404	CLA	ND
22	AA	406	CLA	ND
22	AB	601	CLA	ND
22	AB	602	CLA	ND
22	AB	603	CLA	ND
22	AB	604	CLA	ND
22	AB	605	CLA	ND
22	AB	606	CLA	ND
22	AB	607	CLA	ND
22	AB	608	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
22	AB	609	CLA	ND
22	AB	610	CLA	ND
22	AB	611	CLA	ND
22	AB	612	CLA	ND
22	AB	613	CLA	ND
22	AB	614	CLA	ND
22	AB	615	CLA	ND
22	AB	616	CLA	ND
22	AC	501	CLA	ND
22	AC	502	CLA	ND
22	AC	503	CLA	ND
22	AC	504	CLA	ND
22	AC	505	CLA	ND
22	AC	506	CLA	ND
22	AC	507	CLA	ND
22	AC	508	CLA	ND
22	AC	509	CLA	ND
22	AC	510	CLA	ND
22	AC	511	CLA	ND
22	AC	512	CLA	ND
22	AC	513	CLA	ND
22	AD	402	CLA	ND
22	AD	404	CLA	ND
22	BA	403	CLA	ND
22	BA	404	CLA	ND
22	BA	405	CLA	ND
22	BA	407	CLA	ND
22	BB	604	CLA	ND
22	BB	605	CLA	ND
22	BB	606	CLA	ND
22	BB	607	CLA	ND
22	BB	608	CLA	ND
22	BB	609	CLA	ND
22	BB	610	CLA	ND
22	BB	611	CLA	ND
22	BB	612	CLA	ND
22	BB	613	CLA	ND
22	BB	614	CLA	ND
22	BB	615	CLA	ND
22	BB	616	CLA	ND
22	BB	617	CLA	ND
22	BB	618	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
22	BB	619	CLA	ND
22	BC	501	CLA	ND
22	BC	502	CLA	ND
22	BC	503	CLA	ND
22	BC	504	CLA	ND
22	BC	505	CLA	ND
22	BC	506	CLA	ND
22	BC	507	CLA	ND
22	BC	508	CLA	ND
22	BC	509	CLA	ND
22	BC	510	CLA	ND
22	BC	511	CLA	ND
22	BC	512	CLA	ND
22	BC	513	CLA	ND
22	BD	402	CLA	ND
22	BD	404	CLA	ND
27	AA	410	DGD	C2D
27	AA	410	DGD	C5D
27	AA	410	DGD	C5E
27	AB	626	DGD	C2D
27	AB	626	DGD	C5D
27	AB	626	DGD	C5E
27	AC	516	DGD	C2D
27	AC	516	DGD	C5D
27	AC	516	DGD	C5E
27	AC	517	DGD	C2D
27	AC	517	DGD	C5D
27	AC	517	DGD	C5E
27	AC	518	DGD	C2D
27	AC	518	DGD	C5D
27	AC	518	DGD	C5E
27	AD	410	DGD	C2D
27	AD	410	DGD	C5D
27	AD	410	DGD	C5E
27	AH	102	DGD	C2D
27	AH	102	DGD	C5D
27	AH	102	DGD	C5E
27	BA	411	DGD	C2D
27	BA	411	DGD	C5D
27	BA	411	DGD	C5E
27	BB	602	DGD	C2D
27	BB	602	DGD	C5D

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
27	BB	602	DGD	C5E
27	BC	516	DGD	C2D
27	BC	516	DGD	C5D
27	BC	516	DGD	C5E
27	BC	517	DGD	C2D
27	BC	517	DGD	C5D
27	BC	517	DGD	C5E
27	BC	518	DGD	C2D
27	BC	518	DGD	C5D
27	BC	518	DGD	C5E
27	BD	410	DGD	C2D
27	BD	410	DGD	C5D
27	BD	410	DGD	C5E
27	BH	101	DGD	C2D
27	BH	101	DGD	C5D
27	BH	101	DGD	C5E
30	AA	413	LMG	C2
30	AA	413	LMG	C5
30	AA	416	LMG	C2
30	AA	416	LMG	C5
30	AB	621	LMG	C2
30	AB	621	LMG	C5
30	AB	622	LMG	C2
30	AB	622	LMG	C5
30	AB	623	LMG	C2
30	AB	623	LMG	C5
30	AC	519	LMG	C2
30	AC	519	LMG	C5
30	AC	520	LMG	C2
30	AC	520	LMG	C5
30	AD	407	LMG	C2
30	AD	407	LMG	C5
30	AD	408	LMG	C2
30	AD	408	LMG	C5
30	AE	102	LMG	C2
30	AE	102	LMG	C5
30	AI	101	LMG	C2
30	AI	101	LMG	C5
30	AM	101	LMG	C2
30	AM	101	LMG	C5
30	BA	414	LMG	C2
30	BA	414	LMG	C5

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Mol	Chain	Res	Type	Atom
30	BB	623	LMG	C2
30	BB	623	LMG	C5
30	BB	624	LMG	C2
30	BB	624	LMG	C5
30	BC	519	LMG	C2
30	BC	519	LMG	C5
30	BC	520	LMG	C2
30	BC	520	LMG	C5
30	BD	407	LMG	C2
30	BD	407	LMG	C5
30	BD	408	LMG	C2
30	BD	408	LMG	C5
30	BE	102	LMG	C2
30	BE	102	LMG	C5
30	BI	101	LMG	C2
30	BI	101	LMG	C5
30	BM	102	LMG	C2
30	BM	102	LMG	C5

All (2228) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	AA	403	CLA	C1A-C2A-CAA-CBA
22	AA	403	CLA	C3A-C2A-CAA-CBA
22	AA	403	CLA	CHA-CBD-CGD-O1D
22	AA	403	CLA	CHA-CBD-CGD-O2D
22	AA	403	CLA	O2A-C1-C2-C3
22	AA	403	CLA	C1-C2-C3-C4
22	AA	403	CLA	C1-C2-C3-C5
22	AA	403	CLA	C4-C3-C5-C6
22	AA	404	CLA	C1-C2-C3-C4
22	AA	404	CLA	C1-C2-C3-C5
22	AA	406	CLA	C1-C2-C3-C4
22	AB	601	CLA	CBD-CGD-O2D-CED
22	AB	601	CLA	C1-C2-C3-C4
22	AB	602	CLA	C1A-C2A-CAA-CBA
22	AB	602	CLA	C1-C2-C3-C4
22	AB	602	CLA	C1-C2-C3-C5
22	AB	603	CLA	C2-C3-C5-C6
22	AB	603	CLA	C4-C3-C5-C6
22	AB	604	CLA	CBD-CGD-O2D-CED
22	AB	604	CLA	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
22	AB	604	CLA	C1-C2-C3-C5
22	AB	605	CLA	CBD-CGD-O2D-CED
22	AB	605	CLA	C1-C2-C3-C4
22	AB	605	CLA	C1-C2-C3-C5
22	AB	606	CLA	C1A-C2A-CAA-CBA
22	AB	606	CLA	C3A-C2A-CAA-CBA
22	AB	606	CLA	C1-C2-C3-C4
22	AB	606	CLA	C1-C2-C3-C5
22	AB	607	CLA	C1A-C2A-CAA-CBA
22	AB	607	CLA	C3A-C2A-CAA-CBA
22	AB	607	CLA	CHA-CBD-CGD-O1D
22	AB	607	CLA	CHA-CBD-CGD-O2D
22	AB	608	CLA	C1A-C2A-CAA-CBA
22	AB	608	CLA	C3A-C2A-CAA-CBA
22	AB	608	CLA	C1-C2-C3-C4
22	AB	608	CLA	C2-C3-C5-C6
22	AB	608	CLA	C4-C3-C5-C6
22	AB	608	CLA	C6-C7-C8-C9
22	AB	610	CLA	CBD-CGD-O2D-CED
22	AB	610	CLA	C1-C2-C3-C4
22	AB	610	CLA	C1-C2-C3-C5
22	AB	611	CLA	C1-C2-C3-C4
22	AB	612	CLA	C1-C2-C3-C4
22	AB	613	CLA	C2-C3-C5-C6
22	AB	613	CLA	C4-C3-C5-C6
22	AB	614	CLA	CHA-CBD-CGD-O1D
22	AB	614	CLA	CHA-CBD-CGD-O2D
22	AB	615	CLA	C1-C2-C3-C4
22	AB	615	CLA	C1-C2-C3-C5
22	AB	616	CLA	C1A-C2A-CAA-CBA
22	AB	616	CLA	CBD-CGD-O2D-CED
22	AB	616	CLA	C1-C2-C3-C4
22	AB	616	CLA	C1-C2-C3-C5
22	AC	502	CLA	C1-C2-C3-C4
22	AC	502	CLA	C1-C2-C3-C5
22	AC	503	CLA	CBD-CGD-O2D-CED
22	AC	504	CLA	CBD-CGD-O2D-CED
22	AC	505	CLA	C1A-C2A-CAA-CBA
22	AC	505	CLA	CBD-CGD-O2D-CED
22	AC	505	CLA	C1-C2-C3-C4
22	AC	506	CLA	C1-C2-C3-C4
22	AC	508	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
22	AC	508	CLA	CBD-CGD-O2D-CED
22	AC	509	CLA	O2A-C1-C2-C3
22	AC	509	CLA	C1-C2-C3-C4
22	AC	509	CLA	C1-C2-C3-C5
22	AC	510	CLA	C1-C2-C3-C4
22	AC	510	CLA	C1-C2-C3-C5
22	AC	511	CLA	C2A-CAA-CBA-CGA
22	AC	511	CLA	CHA-CBD-CGD-O1D
22	AC	511	CLA	CHA-CBD-CGD-O2D
22	AC	511	CLA	C1-C2-C3-C4
22	AC	511	CLA	C1-C2-C3-C5
22	AC	512	CLA	C1-C2-C3-C4
22	AC	513	CLA	C1-C2-C3-C4
22	AC	513	CLA	C1-C2-C3-C5
22	AD	402	CLA	C1-C2-C3-C4
22	AD	402	CLA	C1-C2-C3-C5
22	AD	404	CLA	C1A-C2A-CAA-CBA
22	BA	404	CLA	C1A-C2A-CAA-CBA
22	BA	404	CLA	C3A-C2A-CAA-CBA
22	BA	404	CLA	CHA-CBD-CGD-O1D
22	BA	404	CLA	CHA-CBD-CGD-O2D
22	BA	404	CLA	O2A-C1-C2-C3
22	BA	404	CLA	C1-C2-C3-C4
22	BA	404	CLA	C1-C2-C3-C5
22	BA	405	CLA	C1-C2-C3-C4
22	BA	405	CLA	C1-C2-C3-C5
22	BA	407	CLA	C1-C2-C3-C4
22	BB	604	CLA	CBD-CGD-O2D-CED
22	BB	604	CLA	C1-C2-C3-C4
22	BB	605	CLA	C1A-C2A-CAA-CBA
22	BB	605	CLA	C1-C2-C3-C4
22	BB	605	CLA	C1-C2-C3-C5
22	BB	606	CLA	C2-C3-C5-C6
22	BB	606	CLA	C4-C3-C5-C6
22	BB	607	CLA	CBD-CGD-O2D-CED
22	BB	607	CLA	C1-C2-C3-C4
22	BB	608	CLA	CBD-CGD-O2D-CED
22	BB	608	CLA	C1-C2-C3-C4
22	BB	609	CLA	C1A-C2A-CAA-CBA
22	BB	609	CLA	C3A-C2A-CAA-CBA
22	BB	609	CLA	CBD-CGD-O2D-CED
22	BB	609	CLA	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
22	BB	609	CLA	C1-C2-C3-C5
22	BB	610	CLA	C1A-C2A-CAA-CBA
22	BB	610	CLA	C3A-C2A-CAA-CBA
22	BB	610	CLA	CHA-CBD-CGD-O1D
22	BB	610	CLA	CHA-CBD-CGD-O2D
22	BB	611	CLA	C1A-C2A-CAA-CBA
22	BB	611	CLA	C1-C2-C3-C4
22	BB	611	CLA	C2-C3-C5-C6
22	BB	611	CLA	C4-C3-C5-C6
22	BB	611	CLA	C6-C7-C8-C9
22	BB	613	CLA	CBD-CGD-O2D-CED
22	BB	613	CLA	C1-C2-C3-C4
22	BB	613	CLA	C1-C2-C3-C5
22	BB	614	CLA	C1-C2-C3-C4
22	BB	615	CLA	C1-C2-C3-C4
22	BB	616	CLA	C2-C3-C5-C6
22	BB	616	CLA	C4-C3-C5-C6
22	BB	617	CLA	CHA-CBD-CGD-O1D
22	BB	617	CLA	CHA-CBD-CGD-O2D
22	BB	618	CLA	C1-C2-C3-C4
22	BB	618	CLA	C1-C2-C3-C5
22	BB	619	CLA	C1A-C2A-CAA-CBA
22	BB	619	CLA	CBD-CGD-O2D-CED
22	BB	619	CLA	C1-C2-C3-C4
22	BB	619	CLA	C1-C2-C3-C5
22	BC	502	CLA	C1-C2-C3-C4
22	BC	502	CLA	C1-C2-C3-C5
22	BC	503	CLA	CBD-CGD-O2D-CED
22	BC	504	CLA	CBD-CGD-O2D-CED
22	BC	505	CLA	C1A-C2A-CAA-CBA
22	BC	505	CLA	CBD-CGD-O2D-CED
22	BC	505	CLA	C1-C2-C3-C4
22	BC	506	CLA	C1-C2-C3-C4
22	BC	508	CLA	C2A-CAA-CBA-CGA
22	BC	508	CLA	CBD-CGD-O2D-CED
22	BC	509	CLA	O2A-C1-C2-C3
22	BC	509	CLA	C1-C2-C3-C4
22	BC	509	CLA	C1-C2-C3-C5
22	BC	510	CLA	C1-C2-C3-C4
22	BC	510	CLA	C1-C2-C3-C5
22	BC	511	CLA	C2A-CAA-CBA-CGA
22	BC	511	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
22	BC	511	CLA	CHA-CBD-CGD-O2D
22	BC	511	CLA	C1-C2-C3-C4
22	BC	511	CLA	C1-C2-C3-C5
22	BC	512	CLA	C1-C2-C3-C4
22	BC	513	CLA	C1-C2-C3-C4
22	BC	513	CLA	C1-C2-C3-C5
22	BD	402	CLA	C1-C2-C3-C4
22	BD	402	CLA	C1-C2-C3-C5
22	BD	404	CLA	C1A-C2A-CAA-CBA
23	AA	405	PHO	O2A-C1-C2-C3
23	AA	405	PHO	C1-C2-C3-C4
23	AA	405	PHO	C1-C2-C3-C5
23	BA	406	PHO	O2A-C1-C2-C3
23	BA	406	PHO	C1-C2-C3-C4
23	BA	406	PHO	C1-C2-C3-C5
23	BA	406	PHO	C6-C7-C8-C9
24	AA	407	PL9	C7-C8-C9-C11
24	AA	407	PL9	C12-C13-C14-C15
24	AA	407	PL9	C12-C13-C14-C16
24	AA	407	PL9	C17-C18-C19-C20
24	AA	407	PL9	C17-C18-C19-C21
24	AA	407	PL9	C27-C28-C29-C30
24	AA	407	PL9	C27-C28-C29-C31
24	AA	407	PL9	C32-C33-C34-C36
24	AA	407	PL9	C37-C38-C39-C40
24	AA	407	PL9	C37-C38-C39-C41
24	AD	405	PL9	C18-C19-C21-C22
24	AD	405	PL9	C20-C19-C21-C22
24	AD	405	PL9	C22-C23-C24-C25
24	AD	405	PL9	C24-C26-C27-C28
24	AD	405	PL9	C42-C43-C44-C45
24	AD	405	PL9	C42-C43-C44-C46
24	AJ	101	PL9	C7-C8-C9-C10
24	AJ	101	PL9	C7-C8-C9-C11
24	AJ	101	PL9	C12-C13-C14-C15
24	AJ	101	PL9	C12-C13-C14-C16
24	AJ	101	PL9	C17-C18-C19-C21
24	AJ	101	PL9	C22-C23-C24-C25
24	AJ	101	PL9	C22-C23-C24-C26
24	BA	408	PL9	C7-C8-C9-C11
24	BA	408	PL9	C12-C13-C14-C15
24	BA	408	PL9	C12-C13-C14-C16

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Mol	Chain	Res	Type	Atoms
24	BA	408	PL9	C17-C18-C19-C20
24	BA	408	PL9	C17-C18-C19-C21
24	BA	408	PL9	C27-C28-C29-C30
24	BA	408	PL9	C27-C28-C29-C31
24	BA	408	PL9	C32-C33-C34-C36
24	BA	408	PL9	C37-C38-C39-C40
24	BA	408	PL9	C37-C38-C39-C41
24	BD	405	PL9	C18-C19-C21-C22
24	BD	405	PL9	C20-C19-C21-C22
24	BD	405	PL9	C22-C23-C24-C25
24	BD	405	PL9	C24-C26-C27-C28
24	BD	405	PL9	C42-C43-C44-C45
24	BD	405	PL9	C42-C43-C44-C46
24	BJ	101	PL9	C7-C8-C9-C10
24	BJ	101	PL9	C7-C8-C9-C11
24	BJ	101	PL9	C12-C13-C14-C15
24	BJ	101	PL9	C12-C13-C14-C16
24	BJ	101	PL9	C17-C18-C19-C21
24	BJ	101	PL9	C22-C23-C24-C25
24	BJ	101	PL9	C22-C23-C24-C26
26	AB	618	BCR	C6-C7-C8-C9
26	AB	620	BCR	C23-C24-C25-C26
26	AB	620	BCR	C23-C24-C25-C30
26	AC	514	BCR	C1-C6-C7-C8
26	AC	514	BCR	C5-C6-C7-C8
26	AC	514	BCR	C6-C7-C8-C9
26	AC	515	BCR	C23-C24-C25-C26
26	AD	406	BCR	C6-C7-C8-C9
26	AT	102	BCR	C6-C7-C8-C9
26	AZ	101	BCR	C1-C6-C7-C8
26	AZ	101	BCR	C5-C6-C7-C8
26	BB	622	BCR	C23-C24-C25-C26
26	BB	622	BCR	C23-C24-C25-C30
26	BC	514	BCR	C1-C6-C7-C8
26	BC	514	BCR	C5-C6-C7-C8
26	BC	514	BCR	C6-C7-C8-C9
26	BC	515	BCR	C23-C24-C25-C26
26	BD	406	BCR	C6-C7-C8-C9
26	BZ	101	BCR	C1-C6-C7-C8
26	BZ	101	BCR	C5-C6-C7-C8
27	AA	410	DGD	C2D-C1D-O3G-C3G
27	AA	410	DGD	O6D-C1D-O3G-C3G

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Mol	Chain	Res	Type	Atoms
27	AB	626	DGD	O1B-C1B-O2G-C2G
27	AB	626	DGD	C2D-C1D-O3G-C3G
27	AB	626	DGD	O6D-C1D-O3G-C3G
27	AB	626	DGD	C5D-C6D-O5D-C1E
27	AB	626	DGD	C2E-C1E-O5D-C6D
27	AC	516	DGD	C2D-C1D-O3G-C3G
27	AC	516	DGD	O6D-C1D-O3G-C3G
27	AC	517	DGD	C2B-C1B-O2G-C2G
27	AC	517	DGD	C4D-C5D-C6D-O5D
27	AC	518	DGD	O6D-C1D-O3G-C3G
27	AD	410	DGD	C2B-C1B-O2G-C2G
27	AD	410	DGD	C1G-C2G-O2G-C1B
27	AD	410	DGD	C2D-C1D-O3G-C3G
27	AD	410	DGD	O6D-C1D-O3G-C3G
27	AD	410	DGD	O6E-C1E-O5D-C6D
27	AH	102	DGD	O6E-C1E-O5D-C6D
27	BA	411	DGD	C2D-C1D-O3G-C3G
27	BA	411	DGD	O6D-C1D-O3G-C3G
27	BB	602	DGD	O1B-C1B-O2G-C2G
27	BB	602	DGD	C2D-C1D-O3G-C3G
27	BB	602	DGD	O6D-C1D-O3G-C3G
27	BB	602	DGD	C5D-C6D-O5D-C1E
27	BB	602	DGD	C2E-C1E-O5D-C6D
27	BC	516	DGD	C2D-C1D-O3G-C3G
27	BC	516	DGD	O6D-C1D-O3G-C3G
27	BC	517	DGD	C2B-C1B-O2G-C2G
27	BC	517	DGD	C4D-C5D-C6D-O5D
27	BC	518	DGD	O6D-C1D-O3G-C3G
27	BD	410	DGD	C2B-C1B-O2G-C2G
27	BD	410	DGD	C1G-C2G-O2G-C1B
27	BD	410	DGD	C2D-C1D-O3G-C3G
27	BD	410	DGD	O6D-C1D-O3G-C3G
27	BD	410	DGD	O6E-C1E-O5D-C6D
27	BH	101	DGD	O6E-C1E-O5D-C6D
28	AA	411	LHG	C1-C2-C3-O3
28	AC	521	LHG	O1-C1-C2-C3
28	AC	521	LHG	C1-C2-C3-O3
28	AC	521	LHG	C3-O3-P-O6
28	BA	412	LHG	C1-C2-C3-O3
28	BC	521	LHG	O1-C1-C2-C3
29	AA	412	SQD	C2-C1-O6-C44
29	AA	412	SQD	O5-C5-C6-S

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
29	AA	412	SQD	C5-C6-S-O8
29	AA	415	SQD	O5-C1-O6-C44
29	AA	415	SQD	O6-C44-C45-O47
29	AA	415	SQD	O10-C23-O48-C46
29	AD	409	SQD	O5-C1-O6-C44
29	AD	409	SQD	O49-C7-O47-C45
29	AD	409	SQD	C8-C7-O47-C45
29	AD	409	SQD	O5-C5-C6-S
29	AF	101	SQD	O5-C1-O6-C44
29	BA	401	SQD	O5-C1-O6-C44
29	BA	401	SQD	O6-C44-C45-O47
29	BA	413	SQD	C2-C1-O6-C44
29	BA	413	SQD	O5-C5-C6-S
29	BA	413	SQD	C5-C6-S-O8
29	BB	601	SQD	O5-C1-O6-C44
29	BB	601	SQD	O5-C5-C6-S
29	BD	409	SQD	O5-C1-O6-C44
29	BD	409	SQD	O49-C7-O47-C45
29	BD	409	SQD	C8-C7-O47-C45
29	BD	409	SQD	O5-C5-C6-S
29	BF	101	SQD	O5-C1-O6-C44
29	BL	101	SQD	O5-C1-O6-C44
29	BL	101	SQD	O5-C5-C6-S
30	AB	621	LMG	C11-C10-O7-C8
30	AB	622	LMG	C2-C1-O1-C7
30	AB	622	LMG	O6-C1-O1-C7
30	AB	622	LMG	C11-C10-O7-C8
30	AC	519	LMG	C2-C1-O1-C7
30	AC	519	LMG	O6-C1-O1-C7
30	AC	520	LMG	C2-C1-O1-C7
30	AC	520	LMG	O6-C1-O1-C7
30	AC	520	LMG	C11-C10-O7-C8
30	AD	407	LMG	C11-C10-O7-C8
30	AD	408	LMG	O6-C1-O1-C7
30	AE	102	LMG	O6-C1-O1-C7
30	AM	101	LMG	O6-C1-O1-C7
30	AM	101	LMG	O9-C10-O7-C8
30	BB	623	LMG	C11-C10-O7-C8
30	BB	624	LMG	C2-C1-O1-C7
30	BB	624	LMG	O6-C1-O1-C7
30	BB	624	LMG	C11-C10-O7-C8
30	BC	519	LMG	C2-C1-O1-C7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
30	BC	519	LMG	O6-C1-O1-C7
30	BC	520	LMG	C2-C1-O1-C7
30	BC	520	LMG	O6-C1-O1-C7
30	BC	520	LMG	C11-C10-O7-C8
30	BD	407	LMG	C11-C10-O7-C8
30	BD	408	LMG	O6-C1-O1-C7
30	BE	102	LMG	O6-C1-O1-C7
30	BM	102	LMG	O6-C1-O1-C7
30	BM	102	LMG	O9-C10-O7-C8
34	AV	201	HEM	C2B-C3B-CAB-CBB
34	AV	201	HEM	C4B-C3B-CAB-CBB
34	BV	201	HEM	C2B-C3B-CAB-CBB
34	BV	201	HEM	C4B-C3B-CAB-CBB
22	AC	505	CLA	O1D-CGD-O2D-CED
22	BC	505	CLA	O1D-CGD-O2D-CED
32	AT	101	LMT	C3'-C4'-O1B-C1B
32	BT	101	LMT	C3'-C4'-O1B-C1B
22	AA	402	CLA	O1D-CGD-O2D-CED
22	AB	604	CLA	O1D-CGD-O2D-CED
22	AB	616	CLA	O1D-CGD-O2D-CED
22	BA	403	CLA	O1D-CGD-O2D-CED
22	BB	607	CLA	O1D-CGD-O2D-CED
22	BB	619	CLA	O1D-CGD-O2D-CED
22	AA	402	CLA	CBD-CGD-O2D-CED
22	AB	603	CLA	CBD-CGD-O2D-CED
22	AB	606	CLA	CBD-CGD-O2D-CED
22	AB	607	CLA	CBD-CGD-O2D-CED
22	AB	608	CLA	CBD-CGD-O2D-CED
22	AB	613	CLA	CBD-CGD-O2D-CED
22	AC	507	CLA	CBD-CGD-O2D-CED
22	AC	510	CLA	CBD-CGD-O2D-CED
22	AC	511	CLA	CBD-CGD-O2D-CED
22	AC	512	CLA	CBD-CGD-O2D-CED
22	AC	513	CLA	CBD-CGD-O2D-CED
22	BA	403	CLA	CBD-CGD-O2D-CED
22	BB	606	CLA	CBD-CGD-O2D-CED
22	BB	610	CLA	CBD-CGD-O2D-CED
22	BB	611	CLA	CBD-CGD-O2D-CED
22	BB	614	CLA	CBD-CGD-O2D-CED
22	BB	616	CLA	CBD-CGD-O2D-CED
22	BC	507	CLA	CBD-CGD-O2D-CED
22	BC	509	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	BC	510	CLA	CBD-CGD-O2D-CED
22	BC	511	CLA	CBD-CGD-O2D-CED
22	BC	512	CLA	CBD-CGD-O2D-CED
22	BC	513	CLA	CBD-CGD-O2D-CED
23	AD	403	PHO	CBD-CGD-O2D-CED
23	BD	403	PHO	CBD-CGD-O2D-CED
29	BA	401	SQD	O10-C23-O48-C46
30	AA	413	LMG	O10-C28-O8-C9
30	AC	520	LMG	O10-C28-O8-C9
30	BA	414	LMG	O10-C28-O8-C9
30	BC	520	LMG	O10-C28-O8-C9
22	AC	504	CLA	O1D-CGD-O2D-CED
22	AC	508	CLA	O1D-CGD-O2D-CED
22	AC	511	CLA	O1D-CGD-O2D-CED
22	BB	613	CLA	O1D-CGD-O2D-CED
22	BC	504	CLA	O1D-CGD-O2D-CED
22	BC	508	CLA	O1D-CGD-O2D-CED
22	BC	511	CLA	O1D-CGD-O2D-CED
30	AC	520	LMG	C8-C9-O8-C28
30	BC	520	LMG	C8-C9-O8-C28
22	AB	601	CLA	O1D-CGD-O2D-CED
22	AB	605	CLA	O1D-CGD-O2D-CED
22	AB	610	CLA	O1D-CGD-O2D-CED
22	BC	503	CLA	O1D-CGD-O2D-CED
29	BA	401	SQD	C24-C23-O48-C46
30	AA	413	LMG	C29-C28-O8-C9
30	AC	520	LMG	C29-C28-O8-C9
30	BC	520	LMG	C29-C28-O8-C9
24	AJ	101	PL9	C27-C28-C29-C30
24	AJ	101	PL9	C27-C28-C29-C31
24	BJ	101	PL9	C27-C28-C29-C31
22	AA	404	CLA	CBD-CGD-O2D-CED
22	AB	611	CLA	CBD-CGD-O2D-CED
22	AB	614	CLA	CBD-CGD-O2D-CED
22	AC	501	CLA	CBD-CGD-O2D-CED
22	AC	509	CLA	CBD-CGD-O2D-CED
22	BA	405	CLA	CBD-CGD-O2D-CED
22	BB	605	CLA	CBD-CGD-O2D-CED
22	BB	617	CLA	CBD-CGD-O2D-CED
22	BC	501	CLA	CBD-CGD-O2D-CED
27	AD	410	DGD	O1A-C1A-O1G-C1G
27	BD	410	DGD	O1A-C1A-O1G-C1G

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Mol	Chain	Res	Type	Atoms
29	AF	101	SQD	O10-C23-O48-C46
29	BF	101	SQD	O10-C23-O48-C46
30	AB	621	LMG	O10-C28-O8-C9
30	AD	408	LMG	O10-C28-O8-C9
30	AE	102	LMG	O10-C28-O8-C9
30	BB	623	LMG	O10-C28-O8-C9
30	BD	408	LMG	O10-C28-O8-C9
30	BE	102	LMG	O10-C28-O8-C9
22	AC	503	CLA	O1D-CGD-O2D-CED
22	BB	604	CLA	O1D-CGD-O2D-CED
22	AB	603	CLA	O1D-CGD-O2D-CED
22	BB	608	CLA	O1D-CGD-O2D-CED
22	BB	609	CLA	O1D-CGD-O2D-CED
22	AC	506	CLA	CBD-CGD-O2D-CED
23	AA	405	PHO	CBD-CGD-O2D-CED
22	AB	606	CLA	O1D-CGD-O2D-CED
22	BB	606	CLA	O1D-CGD-O2D-CED
27	AD	410	DGD	O1B-C1B-O2G-C2G
27	BC	517	DGD	O1B-C1B-O2G-C2G
27	BD	410	DGD	O1B-C1B-O2G-C2G
30	AB	622	LMG	O9-C10-O7-C8
30	AC	520	LMG	O9-C10-O7-C8
30	AD	407	LMG	O9-C10-O7-C8
30	BB	624	LMG	O9-C10-O7-C8
30	BC	520	LMG	O9-C10-O7-C8
30	BD	407	LMG	O9-C10-O7-C8
22	AB	608	CLA	C3-C5-C6-C7
22	BB	611	CLA	C3-C5-C6-C7
28	AA	411	LHG	C24-C23-O8-C6
28	BA	412	LHG	C24-C23-O8-C6
29	AA	415	SQD	C24-C23-O48-C46
29	AF	101	SQD	C24-C23-O48-C46
29	BF	101	SQD	C24-C23-O48-C46
30	AB	621	LMG	C29-C28-O8-C9
30	AD	408	LMG	C29-C28-O8-C9
30	AI	101	LMG	C29-C28-O8-C9
30	BA	414	LMG	C29-C28-O8-C9
30	BB	623	LMG	C29-C28-O8-C9
30	BD	408	LMG	C29-C28-O8-C9
30	BI	101	LMG	C29-C28-O8-C9
27	AB	626	DGD	C2B-C1B-O2G-C2G
27	BB	602	DGD	C2B-C1B-O2G-C2G

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Mol	Chain	Res	Type	Atoms
30	AM	101	LMG	C11-C10-O7-C8
30	BM	102	LMG	C11-C10-O7-C8
24	BJ	101	PL9	C27-C28-C29-C30
22	AB	613	CLA	O1D-CGD-O2D-CED
22	BB	616	CLA	O1D-CGD-O2D-CED
23	AD	403	PHO	O1D-CGD-O2D-CED
22	AB	602	CLA	CBD-CGD-O2D-CED
22	BC	506	CLA	CBD-CGD-O2D-CED
30	BD	408	LMG	O6-C5-C6-O5
22	BA	404	CLA	C4-C3-C5-C6
22	AA	403	CLA	C2-C3-C5-C6
23	BA	406	PHO	CBD-CGD-O2D-CED
22	AB	601	CLA	C2A-CAA-CBA-CGA
22	AB	607	CLA	C2A-CAA-CBA-CGA
22	AB	610	CLA	C2A-CAA-CBA-CGA
22	BB	604	CLA	C2A-CAA-CBA-CGA
22	BB	610	CLA	C2A-CAA-CBA-CGA
22	BB	613	CLA	C2A-CAA-CBA-CGA
27	AD	410	DGD	C2A-C1A-O1G-C1G
27	BD	410	DGD	C2A-C1A-O1G-C1G
30	AC	519	LMG	C29-C28-O8-C9
30	AE	102	LMG	C29-C28-O8-C9
30	BE	102	LMG	C29-C28-O8-C9
30	AD	408	LMG	O6-C5-C6-O5
22	AB	607	CLA	O1D-CGD-O2D-CED
22	AC	512	CLA	O1D-CGD-O2D-CED
23	BD	403	PHO	O1D-CGD-O2D-CED
27	AA	410	DGD	C4D-C5D-C6D-O5D
27	BA	411	DGD	C4D-C5D-C6D-O5D
22	AB	608	CLA	C1-C2-C3-C5
22	AB	611	CLA	C1-C2-C3-C5
22	AC	505	CLA	C1-C2-C3-C5
22	AC	506	CLA	C1-C2-C3-C5
22	BB	607	CLA	C1-C2-C3-C5
22	BB	608	CLA	C1-C2-C3-C5
22	BB	611	CLA	C1-C2-C3-C5
22	BB	614	CLA	C1-C2-C3-C5
22	BC	505	CLA	C1-C2-C3-C5
22	BC	506	CLA	C1-C2-C3-C5
24	AA	407	PL9	C7-C8-C9-C10
24	AA	407	PL9	C22-C23-C24-C25
24	AA	407	PL9	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
24	AD	405	PL9	C12-C13-C14-C15
24	AD	405	PL9	C27-C28-C29-C30
24	AJ	101	PL9	C17-C18-C19-C20
24	BA	408	PL9	C7-C8-C9-C10
24	BA	408	PL9	C22-C23-C24-C25
24	BA	408	PL9	C32-C33-C34-C35
24	BD	405	PL9	C12-C13-C14-C15
24	BD	405	PL9	C27-C28-C29-C30
24	BJ	101	PL9	C17-C18-C19-C20
22	AC	507	CLA	O1D-CGD-O2D-CED
22	AC	513	CLA	O1D-CGD-O2D-CED
22	BC	507	CLA	O1D-CGD-O2D-CED
22	BC	512	CLA	O1D-CGD-O2D-CED
22	BC	513	CLA	O1D-CGD-O2D-CED
27	AC	517	DGD	O1B-C1B-O2G-C2G
30	AB	621	LMG	O9-C10-O7-C8
30	BB	623	LMG	O9-C10-O7-C8
24	AA	407	PL9	C22-C23-C24-C26
24	AD	405	PL9	C12-C13-C14-C16
24	AD	405	PL9	C27-C28-C29-C31
24	BA	408	PL9	C22-C23-C24-C26
24	BD	405	PL9	C12-C13-C14-C16
24	BD	405	PL9	C27-C28-C29-C31
30	AC	520	LMG	C4-C5-C6-O5
30	BC	520	LMG	C4-C5-C6-O5
28	AA	411	LHG	O10-C23-O8-C6
28	BA	412	LHG	O10-C23-O8-C6
30	AC	519	LMG	O10-C28-O8-C9
30	BC	519	LMG	O10-C28-O8-C9
27	AB	626	DGD	O6E-C5E-C6E-O5E
27	BB	602	DGD	O6E-C5E-C6E-O5E
22	AB	612	CLA	CBD-CGD-O2D-CED
22	BB	610	CLA	O1D-CGD-O2D-CED
28	AA	411	LHG	O2-C2-C3-O3
28	BA	412	LHG	O2-C2-C3-O3
30	BC	519	LMG	C29-C28-O8-C9
30	AI	101	LMG	O10-C28-O8-C9
30	BI	101	LMG	O10-C28-O8-C9
30	AC	520	LMG	O6-C5-C6-O5
30	AM	101	LMG	O6-C5-C6-O5
30	BM	102	LMG	O6-C5-C6-O5
30	BM	102	LMG	C4-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
22	BC	510	CLA	O1D-CGD-O2D-CED
27	AC	516	DGD	C2B-C1B-O2G-C2G
27	BC	516	DGD	C2B-C1B-O2G-C2G
22	BB	615	CLA	CBD-CGD-O2D-CED
30	AM	101	LMG	C4-C5-C6-O5
30	BC	519	LMG	C4-C5-C6-O5
29	BF	101	SQD	C24-C25-C26-C27
29	AF	101	SQD	C24-C25-C26-C27
32	AB	627	LMT	C3'-C4'-O1B-C1B
27	BD	410	DGD	O6E-C5E-C6E-O5E
30	BC	520	LMG	O6-C5-C6-O5
30	AA	413	LMG	C4-C5-C6-O5
30	AC	519	LMG	C4-C5-C6-O5
32	BB	603	LMT	C3'-C4'-O1B-C1B
30	AD	407	LMG	O6-C5-C6-O5
27	BC	516	DGD	O1B-C1B-O2G-C2G
30	BA	414	LMG	C4-C5-C6-O5
30	BI	101	LMG	C4-C5-C6-O5
27	AD	410	DGD	O6E-C5E-C6E-O5E
30	AB	621	LMG	O6-C5-C6-O5
30	BD	407	LMG	O6-C5-C6-O5
30	AI	101	LMG	C4-C5-C6-O5
22	BC	509	CLA	O1D-CGD-O2D-CED
30	BB	623	LMG	O6-C5-C6-O5
27	BA	411	DGD	C4E-C5E-C6E-O5E
29	AA	412	SQD	C11-C10-C9-C8
29	BA	413	SQD	C11-C10-C9-C8
27	AA	410	DGD	C4E-C5E-C6E-O5E
22	AB	608	CLA	O1D-CGD-O2D-CED
22	AC	509	CLA	O1D-CGD-O2D-CED
22	AC	510	CLA	O1D-CGD-O2D-CED
22	BB	611	CLA	O1D-CGD-O2D-CED
22	BB	614	CLA	O1D-CGD-O2D-CED
22	BC	501	CLA	O1D-CGD-O2D-CED
30	AB	623	LMG	C11-C10-O7-C8
22	AB	601	CLA	C1-C2-C3-C5
22	BB	604	CLA	C1-C2-C3-C5
22	AB	611	CLA	O1D-CGD-O2D-CED
22	AC	501	CLA	O1D-CGD-O2D-CED
22	BA	405	CLA	O1D-CGD-O2D-CED
28	BC	521	LHG	C1-C2-C3-O3
27	AC	516	DGD	O1B-C1B-O2G-C2G

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Mol	Chain	Res	Type	Atoms
28	AC	521	LHG	C24-C23-O8-C6
28	BC	521	LHG	C24-C23-O8-C6
29	BB	601	SQD	C24-C23-O48-C46
29	BL	101	SQD	C24-C23-O48-C46
30	AB	622	LMG	C29-C28-O8-C9
30	BB	624	LMG	C29-C28-O8-C9
22	AA	404	CLA	O1D-CGD-O2D-CED
22	BB	604	CLA	C2C-C3C-CAC-CBC
32	AI	102	LMT	C3'-C4'-O1B-C1B
32	BI	102	LMT	C3'-C4'-O1B-C1B
22	AA	403	CLA	C15-C16-C17-C18
30	AD	408	LMG	C4-C5-C6-O5
30	BD	408	LMG	C4-C5-C6-O5
24	AD	405	PL9	C47-C48-C49-C51
24	BD	405	PL9	C47-C48-C49-C51
22	BB	617	CLA	C2C-C3C-CAC-CBC
30	BC	519	LMG	O6-C5-C6-O5
22	AB	614	CLA	C2C-C3C-CAC-CBC
30	AB	621	LMG	C4-C5-C6-O5
22	AB	604	CLA	C8-C10-C11-C12
22	AC	510	CLA	C15-C16-C17-C18
22	BC	505	CLA	C10-C11-C12-C13
22	BC	508	CLA	C10-C11-C12-C13
22	BC	510	CLA	C15-C16-C17-C18
27	BH	101	DGD	C1B-C2B-C3B-C4B
30	BB	623	LMG	C10-C11-C12-C13
27	AH	102	DGD	C2E-C1E-O5D-C6D
27	BH	101	DGD	C2E-C1E-O5D-C6D
30	AE	102	LMG	C2-C1-O1-C7
27	BB	602	DGD	O2G-C2G-C3G-O3G
29	BA	413	SQD	C29-C30-C31-C32
30	AA	413	LMG	O6-C5-C6-O5
30	AC	519	LMG	O6-C5-C6-O5
22	BA	404	CLA	C2-C3-C5-C6
22	AA	403	CLA	C6-C7-C8-C9
22	AB	602	CLA	C6-C7-C8-C9
22	AC	511	CLA	C6-C7-C8-C9
22	BA	404	CLA	C6-C7-C8-C9
22	BB	605	CLA	C6-C7-C8-C9
22	BC	511	CLA	C6-C7-C8-C9
23	AA	405	PHO	C6-C7-C8-C9
30	BA	414	LMG	O6-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
30	AA	416	LMG	C11-C10-O7-C8
27	BD	410	DGD	C4E-C5E-C6E-O5E
27	AC	516	DGD	C1B-C2B-C3B-C4B
27	BC	516	DGD	C1B-C2B-C3B-C4B
30	AB	621	LMG	C10-C11-C12-C13
24	AD	405	PL9	C47-C48-C49-C50
24	BD	405	PL9	C47-C48-C49-C50
29	BB	601	SQD	O10-C23-O48-C46
29	BL	101	SQD	O10-C23-O48-C46
30	AB	622	LMG	O10-C28-O8-C9
30	BB	624	LMG	O10-C28-O8-C9
22	AA	406	CLA	C13-C15-C16-C17
22	AB	602	CLA	C13-C15-C16-C17
22	AB	608	CLA	C15-C16-C17-C18
22	AC	503	CLA	C10-C11-C12-C13
22	AC	505	CLA	C10-C11-C12-C13
22	BA	407	CLA	C13-C15-C16-C17
22	BB	614	CLA	C15-C16-C17-C18
22	BB	616	CLA	C13-C15-C16-C17
22	BB	617	CLA	C5-C6-C7-C8
22	BC	501	CLA	C15-C16-C17-C18
29	AA	412	SQD	C29-C30-C31-C32
22	AB	601	CLA	C2C-C3C-CAC-CBC
22	BB	617	CLA	O1D-CGD-O2D-CED
22	AB	601	CLA	C13-C15-C16-C17
22	AB	616	CLA	C15-C16-C17-C18
22	AC	504	CLA	C10-C11-C12-C13
22	BA	404	CLA	C15-C16-C17-C18
22	BB	604	CLA	C10-C11-C12-C13
22	BB	604	CLA	C13-C15-C16-C17
22	BB	616	CLA	C5-C6-C7-C8
22	BB	619	CLA	C15-C16-C17-C18
22	BC	503	CLA	C10-C11-C12-C13
22	BC	504	CLA	C10-C11-C12-C13
22	BC	507	CLA	C5-C6-C7-C8
22	BC	512	CLA	C13-C15-C16-C17
23	BD	403	PHO	C15-C16-C17-C18
30	AA	416	LMG	C28-C29-C30-C31
30	AD	407	LMG	C10-C11-C12-C13
30	BC	520	LMG	C28-C29-C30-C31
30	BD	407	LMG	C10-C11-C12-C13
27	BC	517	DGD	O6D-C5D-C6D-O5D

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Mol	Chain	Res	Type	Atoms
22	AB	601	CLA	C10-C11-C12-C13
22	AB	611	CLA	C15-C16-C17-C18
22	AB	613	CLA	C5-C6-C7-C8
22	AB	613	CLA	C13-C15-C16-C17
22	AB	614	CLA	C5-C6-C7-C8
22	AB	614	CLA	C15-C16-C17-C18
22	AC	501	CLA	C15-C16-C17-C18
22	AC	506	CLA	C13-C15-C16-C17
22	AC	508	CLA	C10-C11-C12-C13
22	AC	509	CLA	C15-C16-C17-C18
22	AD	404	CLA	C15-C16-C17-C18
22	BB	605	CLA	C13-C15-C16-C17
22	BB	607	CLA	C8-C10-C11-C12
22	BB	611	CLA	C15-C16-C17-C18
22	BB	617	CLA	C15-C16-C17-C18
22	BC	506	CLA	C13-C15-C16-C17
22	BC	509	CLA	C15-C16-C17-C18
22	BD	404	CLA	C15-C16-C17-C18
23	AD	403	PHO	C15-C16-C17-C18
27	AA	410	DGD	C1B-C2B-C3B-C4B
27	AC	516	DGD	C1A-C2A-C3A-C4A
27	AH	102	DGD	C1B-C2B-C3B-C4B
27	BA	411	DGD	C1B-C2B-C3B-C4B
27	BC	516	DGD	C1A-C2A-C3A-C4A
30	AB	622	LMG	C10-C11-C12-C13
30	AB	623	LMG	C10-C11-C12-C13
30	AB	623	LMG	C28-C29-C30-C31
30	AC	520	LMG	C28-C29-C30-C31
30	AD	408	LMG	C10-C11-C12-C13
30	AE	102	LMG	C28-C29-C30-C31
30	BB	624	LMG	C10-C11-C12-C13
30	BD	408	LMG	C10-C11-C12-C13
30	BE	102	LMG	C28-C29-C30-C31
27	BC	517	DGD	O6E-C5E-C6E-O5E
27	AD	410	DGD	C4E-C5E-C6E-O5E
30	BB	623	LMG	C4-C5-C6-O5
22	AC	507	CLA	C5-C6-C7-C8
22	AC	512	CLA	C13-C15-C16-C17
22	BC	504	CLA	C13-C15-C16-C17
22	BC	506	CLA	C5-C6-C7-C8
22	AB	614	CLA	O1D-CGD-O2D-CED
22	BB	605	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
27	AC	517	DGD	O6E-C5E-C6E-O5E
30	BI	101	LMG	O6-C5-C6-O5
30	AA	416	LMG	O9-C10-O7-C8
30	AB	623	LMG	O9-C10-O7-C8
24	BD	405	PL9	C22-C23-C24-C26
27	AC	516	DGD	O6D-C5D-C6D-O5D
27	AC	517	DGD	O6D-C5D-C6D-O5D
27	BC	516	DGD	O6D-C5D-C6D-O5D
22	AB	603	CLA	C5-C6-C7-C8
22	AB	607	CLA	C13-C15-C16-C17
22	AB	609	CLA	C5-C6-C7-C8
22	AC	504	CLA	C13-C15-C16-C17
22	BB	606	CLA	C5-C6-C7-C8
22	BB	610	CLA	C13-C15-C16-C17
27	AB	626	DGD	C1A-C2A-C3A-C4A
27	BB	602	DGD	C1A-C2A-C3A-C4A
30	AA	416	LMG	C10-C11-C12-C13
30	AC	519	LMG	C10-C11-C12-C13
30	BC	519	LMG	C10-C11-C12-C13
22	BB	615	CLA	C13-C15-C16-C17
22	AC	503	CLA	C11-C12-C13-C15
22	AC	513	CLA	C12-C13-C15-C16
22	BB	616	CLA	C11-C10-C8-C7
22	BC	505	CLA	C6-C7-C8-C10
22	BC	513	CLA	C12-C13-C15-C16
22	AB	614	CLA	C3-C5-C6-C7
28	AC	521	LHG	O10-C23-O8-C6
28	BC	521	LHG	O10-C23-O8-C6
22	AB	605	CLA	C5-C6-C7-C8
22	AB	607	CLA	C5-C6-C7-C8
22	AB	615	CLA	C5-C6-C7-C8
22	AD	402	CLA	C15-C16-C17-C18
22	BB	610	CLA	C5-C6-C7-C8
22	BB	612	CLA	C5-C6-C7-C8
22	BB	618	CLA	C5-C6-C7-C8
22	BD	402	CLA	C15-C16-C17-C18
30	AI	101	LMG	O6-C5-C6-O5
27	BB	602	DGD	C4E-C5E-C6E-O5E
30	BD	407	LMG	C4-C5-C6-O5
22	AB	612	CLA	C13-C15-C16-C17
24	AD	405	PL9	C34-C36-C37-C38
24	BD	405	PL9	C34-C36-C37-C38

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
27	AD	410	DGD	C1B-C2B-C3B-C4B
27	BD	410	DGD	C1B-C2B-C3B-C4B
28	AC	521	LHG	O2-C2-C3-O3
28	BC	521	LHG	O2-C2-C3-O3
30	AD	407	LMG	C4-C5-C6-O5
22	BB	617	CLA	C3-C5-C6-C7
22	AB	606	CLA	C10-C11-C12-C13
22	AC	506	CLA	C5-C6-C7-C8
22	BB	605	CLA	C5-C6-C7-C8
22	BB	607	CLA	C13-C15-C16-C17
22	BB	609	CLA	C10-C11-C12-C13
22	BB	618	CLA	C13-C15-C16-C17
22	AA	406	CLA	C5-C6-C7-C8
22	AB	604	CLA	C13-C15-C16-C17
22	AB	612	CLA	C5-C6-C7-C8
22	AB	615	CLA	C13-C15-C16-C17
22	AC	508	CLA	C15-C16-C17-C18
22	BA	407	CLA	C10-C11-C12-C13
22	BB	615	CLA	C5-C6-C7-C8
22	BC	508	CLA	C15-C16-C17-C18
29	AF	101	SQD	C8-C7-O47-C45
30	BI	101	LMG	C11-C10-O7-C8
22	AC	506	CLA	O1D-CGD-O2D-CED
22	AC	508	CLA	C5-C6-C7-C8
22	BB	608	CLA	C5-C6-C7-C8
22	BB	619	CLA	C13-C15-C16-C17
23	AA	405	PHO	O1D-CGD-O2D-CED
22	AB	602	CLA	C5-C6-C7-C8
22	AB	616	CLA	C13-C15-C16-C17
22	AD	402	CLA	C13-C15-C16-C17
30	BI	101	LMG	C10-C11-C12-C13
22	AB	602	CLA	O1D-CGD-O2D-CED
29	AF	101	SQD	O49-C7-O47-C45
30	BI	101	LMG	O9-C10-O7-C8
23	AA	405	PHO	C4-C3-C5-C6
22	AB	616	CLA	C10-C11-C12-C13
22	BB	619	CLA	C10-C11-C12-C13
22	BC	508	CLA	C5-C6-C7-C8
22	AC	513	CLA	C15-C16-C17-C18
22	BC	506	CLA	O1D-CGD-O2D-CED
27	AC	517	DGD	C2A-C3A-C4A-C5A
30	BI	101	LMG	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
29	BF	101	SQD	C8-C7-O47-C45
30	AD	408	LMG	C11-C10-O7-C8
30	AI	101	LMG	C11-C10-O7-C8
30	BD	408	LMG	C11-C10-O7-C8
22	AA	404	CLA	C10-C11-C12-C13
22	AA	406	CLA	C10-C11-C12-C13
22	BA	405	CLA	C10-C11-C12-C13
27	AC	516	DGD	C3B-C4B-C5B-C6B
27	AC	517	DGD	CAB-CBB-CCB-CDB
27	AC	518	DGD	C9B-CAB-CBB-CCB
27	AD	410	DGD	C2A-C3A-C4A-C5A
27	AD	410	DGD	CAB-CBB-CCB-CDB
27	AH	102	DGD	C6B-C7B-C8B-C9B
27	BC	516	DGD	C3A-C4A-C5A-C6A
27	BC	516	DGD	C3B-C4B-C5B-C6B
27	BC	517	DGD	C2A-C3A-C4A-C5A
27	BD	410	DGD	CAB-CBB-CCB-CDB
28	AA	411	LHG	C25-C26-C27-C28
29	BB	601	SQD	C11-C10-C9-C8
29	BL	101	SQD	C11-C10-C9-C8
30	AA	416	LMG	C18-C19-C20-C21
30	AB	623	LMG	C18-C19-C20-C21
30	AI	101	LMG	C14-C15-C16-C17
27	AC	516	DGD	C3A-C4A-C5A-C6A
27	AD	410	DGD	C3B-C4B-C5B-C6B
27	BC	517	DGD	CAB-CBB-CCB-CDB
27	BC	518	DGD	C9B-CAB-CBB-CCB
27	BD	410	DGD	C2A-C3A-C4A-C5A
27	BD	410	DGD	C3B-C4B-C5B-C6B
28	BA	412	LHG	C25-C26-C27-C28
29	AA	412	SQD	C27-C28-C29-C30
29	AD	409	SQD	C11-C10-C9-C8
29	BA	413	SQD	C27-C28-C29-C30
30	AA	413	LMG	C14-C15-C16-C17
30	AA	416	LMG	C32-C33-C34-C35
30	AC	520	LMG	C12-C13-C14-C15
30	BA	414	LMG	C14-C15-C16-C17
30	AE	102	LMG	C7-C8-O7-C10
30	BE	102	LMG	C7-C8-O7-C10
29	BF	101	SQD	O49-C7-O47-C45
30	AC	519	LMG	O9-C10-O7-C8
30	AD	408	LMG	O9-C10-O7-C8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
30	AI	101	LMG	O9-C10-O7-C8
30	BD	408	LMG	O9-C10-O7-C8
27	AB	626	DGD	C9B-CAB-CBB-CCB
27	AD	410	DGD	C5A-C6A-C7A-C8A
27	AD	410	DGD	CDB-CEB-CFB-CGB
27	BD	410	DGD	CDB-CEB-CFB-CGB
29	BF	101	SQD	C27-C28-C29-C30
30	AB	622	LMG	C15-C16-C17-C18
30	AM	101	LMG	C29-C30-C31-C32
30	BC	520	LMG	C12-C13-C14-C15
30	BM	102	LMG	C29-C30-C31-C32
27	BB	602	DGD	C9B-CAB-CBB-CCB
27	BH	101	DGD	C6B-C7B-C8B-C9B
28	AC	521	LHG	C25-C26-C27-C28
28	BC	521	LHG	C25-C26-C27-C28
29	BB	601	SQD	C11-C12-C13-C14
30	AB	623	LMG	C32-C33-C34-C35
30	AD	408	LMG	C19-C20-C21-C22
22	BB	619	CLA	C5-C6-C7-C8
28	AA	411	LHG	C30-C31-C32-C33
30	AI	101	LMG	C16-C17-C18-C19
30	BB	624	LMG	C15-C16-C17-C18
30	BI	101	LMG	C16-C17-C18-C19
22	BB	610	CLA	C3-C5-C6-C7
30	AI	101	LMG	C10-C11-C12-C13
23	BA	406	PHO	O1D-CGD-O2D-CED
27	AC	517	DGD	C2D-C1D-O3G-C3G
27	BC	517	DGD	C2D-C1D-O3G-C3G
30	BE	102	LMG	C2-C1-O1-C7
27	AB	626	DGD	C4E-C5E-C6E-O5E
27	AB	626	DGD	O2G-C2G-C3G-O3G
22	BC	512	CLA	C1-C2-C3-C5
27	AC	517	DGD	C9A-CAA-CBA-CCA
27	AD	410	DGD	C3A-C4A-C5A-C6A
27	BA	411	DGD	C8B-C9B-CAB-CBB
27	BD	410	DGD	C3A-C4A-C5A-C6A
27	BD	410	DGD	C5A-C6A-C7A-C8A
28	BA	412	LHG	C30-C31-C32-C33
29	AF	101	SQD	C27-C28-C29-C30
30	AA	416	LMG	C11-C12-C13-C14
30	AB	623	LMG	C11-C12-C13-C14
30	AE	102	LMG	C15-C16-C17-C18

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
30	BB	623	LMG	C31-C32-C33-C34
30	BB	624	LMG	C13-C14-C15-C16
30	BD	408	LMG	C32-C33-C34-C35
32	AI	102	LMT	C6-C7-C8-C9
32	BI	102	LMT	C6-C7-C8-C9
22	BC	503	CLA	C5-C6-C7-C8
22	BC	513	CLA	C15-C16-C17-C18
30	BE	102	LMG	O6-C5-C6-O5
27	AA	410	DGD	C8B-C9B-CAB-CBB
27	AC	516	DGD	C4B-C5B-C6B-C7B
27	BH	101	DGD	C5B-C6B-C7B-C8B
29	BL	101	SQD	C11-C12-C13-C14
30	AB	621	LMG	C31-C32-C33-C34
30	AB	622	LMG	C13-C14-C15-C16
30	AB	623	LMG	C31-C32-C33-C34
30	AD	408	LMG	C32-C33-C34-C35
30	BD	408	LMG	C19-C20-C21-C22
30	BE	102	LMG	C15-C16-C17-C18
22	AB	602	CLA	C11-C12-C13-C14
22	AC	503	CLA	C11-C12-C13-C14
22	AC	511	CLA	C14-C13-C15-C16
22	AC	513	CLA	C14-C13-C15-C16
22	BB	605	CLA	C11-C12-C13-C14
22	BC	503	CLA	C11-C12-C13-C14
22	BC	511	CLA	C14-C13-C15-C16
22	BC	513	CLA	C14-C13-C15-C16
27	AD	410	DGD	C7B-C8B-C9B-CAB
27	AH	102	DGD	C5B-C6B-C7B-C8B
27	BC	516	DGD	C4B-C5B-C6B-C7B
27	BC	517	DGD	C4B-C5B-C6B-C7B
27	BD	410	DGD	C4B-C5B-C6B-C7B
30	AB	621	LMG	C15-C16-C17-C18
30	AB	622	LMG	C31-C32-C33-C34
30	AB	623	LMG	C30-C31-C32-C33
30	AD	408	LMG	C15-C16-C17-C18
30	AI	101	LMG	C12-C13-C14-C15
30	AI	101	LMG	C13-C14-C15-C16
30	BD	408	LMG	C15-C16-C17-C18
30	BI	101	LMG	C12-C13-C14-C15
30	BI	101	LMG	C13-C14-C15-C16
22	AB	616	CLA	C5-C6-C7-C8
22	AB	602	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
22	AC	504	CLA	C2A-CAA-CBA-CGA
22	AC	512	CLA	C2A-CAA-CBA-CGA
22	BB	605	CLA	C2A-CAA-CBA-CGA
22	BC	504	CLA	C2A-CAA-CBA-CGA
22	BC	512	CLA	C2A-CAA-CBA-CGA
27	AC	518	DGD	C3B-C4B-C5B-C6B
27	AD	410	DGD	C4B-C5B-C6B-C7B
27	BB	602	DGD	C5A-C6A-C7A-C8A
27	BC	518	DGD	C3B-C4B-C5B-C6B
29	BD	409	SQD	C11-C10-C9-C8
30	AA	416	LMG	C31-C32-C33-C34
30	BB	623	LMG	C15-C16-C17-C18
30	BB	624	LMG	C31-C32-C33-C34
27	BC	518	DGD	O1B-C1B-O2G-C2G
22	AC	503	CLA	C5-C6-C7-C8
22	BD	402	CLA	C13-C15-C16-C17
30	AC	519	LMG	C11-C10-O7-C8
30	BC	519	LMG	C11-C10-O7-C8
27	AC	516	DGD	C2A-C3A-C4A-C5A
27	BD	410	DGD	C7B-C8B-C9B-CAB
30	BE	102	LMG	C17-C18-C19-C20
32	BT	101	LMT	C7-C8-C9-C10
24	AD	405	PL9	C22-C23-C24-C26
30	AC	520	LMG	C10-C11-C12-C13
22	BB	617	CLA	C4C-C3C-CAC-CBC
27	AC	516	DGD	C4A-C5A-C6A-C7A
27	AC	517	DGD	C4B-C5B-C6B-C7B
27	BB	602	DGD	C8B-C9B-CAB-CBB
27	BC	516	DGD	C2A-C3A-C4A-C5A
27	BC	516	DGD	C4A-C5A-C6A-C7A
27	BC	517	DGD	C9A-CAA-CBA-CCA
30	AA	416	LMG	C30-C31-C32-C33
30	AB	621	LMG	C20-C21-C22-C23
30	AD	407	LMG	C17-C18-C19-C20
30	AD	408	LMG	C36-C37-C38-C39
30	AE	102	LMG	C17-C18-C19-C20
30	BB	623	LMG	C20-C21-C22-C23
30	BD	407	LMG	C17-C18-C19-C20
32	AT	101	LMT	C7-C8-C9-C10
27	AB	626	DGD	O6E-C1E-O5D-C6D
27	AC	517	DGD	O6D-C1D-O3G-C3G
27	BB	602	DGD	O6E-C1E-O5D-C6D

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
27	BC	517	DGD	O6D-C1D-O3G-C3G
22	AB	609	CLA	C13-C15-C16-C17
22	BB	612	CLA	C13-C15-C16-C17
27	AB	626	DGD	C5A-C6A-C7A-C8A
27	AB	626	DGD	C8B-C9B-CAB-CBB
27	AD	410	DGD	CEB-CFB-CGB-CHB
30	AA	413	LMG	C31-C32-C33-C34
30	BB	623	LMG	C36-C37-C38-C39
30	BD	408	LMG	C29-C30-C31-C32
27	AC	516	DGD	C4D-C5D-C6D-O5D
27	BC	516	DGD	C4D-C5D-C6D-O5D
22	AB	612	CLA	O1D-CGD-O2D-CED
27	AA	410	DGD	C7A-C8A-C9A-CAA
27	BD	410	DGD	C6B-C7B-C8B-C9B
27	BD	410	DGD	CEB-CFB-CGB-CHB
28	AC	521	LHG	C24-C25-C26-C27
30	AA	416	LMG	C12-C13-C14-C15
30	BA	414	LMG	C31-C32-C33-C34
30	BD	407	LMG	C36-C37-C38-C39
27	AD	410	DGD	C1A-C2A-C3A-C4A
27	BD	410	DGD	C1A-C2A-C3A-C4A
30	BC	520	LMG	C10-C11-C12-C13
22	BA	407	CLA	C5-C6-C7-C8
27	AH	102	DGD	C7A-C8A-C9A-CAA
27	BA	411	DGD	C7A-C8A-C9A-CAA
28	AC	521	LHG	C11-C10-C9-C8
28	BC	521	LHG	C11-C10-C9-C8
30	AA	413	LMG	C34-C35-C36-C37
30	AB	621	LMG	C36-C37-C38-C39
30	AB	623	LMG	C12-C13-C14-C15
30	AC	520	LMG	C29-C30-C31-C32
30	AD	407	LMG	C36-C37-C38-C39
30	BA	414	LMG	C34-C35-C36-C37
30	BC	520	LMG	C29-C30-C31-C32
30	BD	408	LMG	C36-C37-C38-C39
22	AB	607	CLA	C3-C5-C6-C7
22	AC	512	CLA	C3-C5-C6-C7
30	AD	408	LMG	C29-C30-C31-C32
22	AB	602	CLA	C3A-C2A-CAA-CBA
22	AC	505	CLA	C3A-C2A-CAA-CBA
22	AC	507	CLA	C3A-C2A-CAA-CBA
22	AC	512	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	BB	605	CLA	C3A-C2A-CAA-CBA
22	BB	611	CLA	C3A-C2A-CAA-CBA
22	BC	505	CLA	C3A-C2A-CAA-CBA
22	BC	507	CLA	C3A-C2A-CAA-CBA
22	BC	512	CLA	C3A-C2A-CAA-CBA
32	AB	624	LMT	C1-C2-C3-C4
22	AB	614	CLA	C4C-C3C-CAC-CBC
27	BD	410	DGD	C7A-C8A-C9A-CAA
28	BC	521	LHG	C24-C25-C26-C27
30	BA	414	LMG	C30-C31-C32-C33
22	BB	615	CLA	O1D-CGD-O2D-CED
27	AD	410	DGD	C6B-C7B-C8B-C9B
27	AD	410	DGD	CCB-CDB-CEB-CFB
27	BD	410	DGD	CCB-CDB-CEB-CFB
27	BH	101	DGD	C7A-C8A-C9A-CAA
30	AA	413	LMG	C30-C31-C32-C33
30	AC	519	LMG	C34-C35-C36-C37
27	AC	517	DGD	C1G-C2G-C3G-O3G
30	BC	519	LMG	O9-C10-O7-C8
30	BC	519	LMG	C34-C35-C36-C37
27	AA	410	DGD	O6D-C5D-C6D-O5D
27	AH	102	DGD	O6D-C5D-C6D-O5D
27	BA	411	DGD	O6D-C5D-C6D-O5D
27	BH	101	DGD	O6D-C5D-C6D-O5D
27	AC	518	DGD	C2B-C1B-O2G-C2G
27	BC	518	DGD	C2B-C1B-O2G-C2G
28	AA	411	LHG	C8-C7-O7-C5
28	BA	412	LHG	C8-C7-O7-C5
27	AC	517	DGD	C4A-C5A-C6A-C7A
27	AC	518	DGD	C8B-C9B-CAB-CBB
27	AH	102	DGD	C3B-C4B-C5B-C6B
27	BC	518	DGD	C8B-C9B-CAB-CBB
22	AC	512	CLA	C1-C2-C3-C5
22	BB	609	CLA	C2A-CAA-CBA-CGA
28	AC	521	LHG	O1-C1-C2-O2
28	BC	521	LHG	O1-C1-C2-O2
27	AD	410	DGD	C7A-C8A-C9A-CAA
27	BH	101	DGD	C3B-C4B-C5B-C6B
30	BE	102	LMG	C18-C19-C20-C21
32	BB	625	LMT	C1-C2-C3-C4
22	AC	506	CLA	C10-C11-C12-C13
30	AB	621	LMG	C17-C18-C19-C20

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
22	AB	616	CLA	C3-C5-C6-C7
22	BB	619	CLA	C3-C5-C6-C7
30	AA	413	LMG	C19-C20-C21-C22
27	AC	518	DGD	C1A-C2A-C3A-C4A
27	BC	518	DGD	C1A-C2A-C3A-C4A
27	BC	517	DGD	C4A-C5A-C6A-C7A
30	AE	102	LMG	C18-C19-C20-C21
30	BB	623	LMG	C17-C18-C19-C20
30	BB	624	LMG	C12-C13-C14-C15
27	AC	518	DGD	O1B-C1B-O2G-C2G
28	AA	411	LHG	O9-C7-O7-C5
28	BA	412	LHG	O9-C7-O7-C5
27	BC	518	DGD	CEA-CFA-CGA-CHA
30	AB	621	LMG	C18-C19-C20-C21
30	BB	623	LMG	C18-C19-C20-C21
26	AA	409	BCR	C1-C6-C7-C8
26	AA	409	BCR	C5-C6-C7-C8
26	AA	409	BCR	C23-C24-C25-C26
26	AA	409	BCR	C23-C24-C25-C30
26	AC	514	BCR	C23-C24-C25-C26
26	AC	514	BCR	C23-C24-C25-C30
26	AC	515	BCR	C23-C24-C25-C30
26	AD	406	BCR	C1-C6-C7-C8
26	AD	406	BCR	C5-C6-C7-C8
26	AH	101	BCR	C1-C6-C7-C8
26	AH	101	BCR	C5-C6-C7-C8
26	AJ	102	BCR	C23-C24-C25-C26
26	AK	102	BCR	C1-C6-C7-C8
26	AK	102	BCR	C5-C6-C7-C8
26	AK	102	BCR	C23-C24-C25-C26
26	AK	102	BCR	C23-C24-C25-C30
26	BA	410	BCR	C1-C6-C7-C8
26	BA	410	BCR	C5-C6-C7-C8
26	BA	410	BCR	C23-C24-C25-C26
26	BA	410	BCR	C23-C24-C25-C30
26	BC	514	BCR	C23-C24-C25-C26
26	BC	514	BCR	C23-C24-C25-C30
26	BC	515	BCR	C23-C24-C25-C30
26	BD	406	BCR	C1-C6-C7-C8
26	BD	406	BCR	C5-C6-C7-C8
26	BJ	102	BCR	C23-C24-C25-C26
26	BK	102	BCR	C1-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
26	BK	102	BCR	C5-C6-C7-C8
26	BK	102	BCR	C23-C24-C25-C26
26	BK	102	BCR	C23-C24-C25-C30
26	BX	101	BCR	C1-C6-C7-C8
26	BX	101	BCR	C5-C6-C7-C8
30	AA	416	LMG	C15-C16-C17-C18
30	BA	414	LMG	C19-C20-C21-C22
22	AA	404	CLA	C15-C16-C17-C18
22	AC	504	CLA	C15-C16-C17-C18
22	AD	402	CLA	C5-C6-C7-C8
22	BC	506	CLA	C10-C11-C12-C13
22	BD	402	CLA	C5-C6-C7-C8
27	BC	517	DGD	CCB-CDB-CEB-CFB
30	AD	407	LMG	C34-C35-C36-C37
30	AE	102	LMG	O6-C5-C6-O5
27	AC	517	DGD	CCB-CDB-CEB-CFB
32	AT	101	LMT	C2-C3-C4-C5
27	AC	518	DGD	CEA-CFA-CGA-CHA
27	BB	602	DGD	C2A-C3A-C4A-C5A
30	AB	622	LMG	C12-C13-C14-C15
30	AB	623	LMG	C15-C16-C17-C18
23	BA	406	PHO	C4-C3-C5-C6
22	AB	601	CLA	C6-C7-C8-C10
22	AB	602	CLA	C11-C12-C13-C15
22	AB	613	CLA	C11-C10-C8-C7
22	AC	503	CLA	C6-C7-C8-C10
22	AC	503	CLA	C11-C10-C8-C7
22	AC	505	CLA	C6-C7-C8-C10
22	AC	507	CLA	C11-C10-C8-C7
22	AC	511	CLA	C12-C13-C15-C16
22	AC	513	CLA	C11-C10-C8-C7
22	BB	604	CLA	C6-C7-C8-C10
22	BB	605	CLA	C11-C12-C13-C15
22	BC	503	CLA	C6-C7-C8-C10
22	BC	503	CLA	C11-C10-C8-C7
22	BC	503	CLA	C11-C12-C13-C15
22	BC	507	CLA	C11-C10-C8-C7
22	BC	511	CLA	C11-C10-C8-C7
22	BC	511	CLA	C12-C13-C15-C16
22	BC	513	CLA	C11-C10-C8-C7
23	AD	403	PHO	C6-C7-C8-C10
23	BD	403	PHO	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
22	BC	512	CLA	C3-C5-C6-C7
30	BA	414	LMG	C38-C39-C40-C41
22	BC	509	CLA	C5-C6-C7-C8
23	AD	403	PHO	C10-C11-C12-C13
29	AA	415	SQD	C17-C18-C19-C20
30	AD	407	LMG	C31-C32-C33-C34
22	AB	606	CLA	C2A-CAA-CBA-CGA
22	BA	403	CLA	C2A-CAA-CBA-CGA
22	BC	504	CLA	C15-C16-C17-C18
29	BA	401	SQD	C17-C18-C19-C20
22	BA	405	CLA	C15-C16-C17-C18
29	AA	412	SQD	C9-C10-C11-C12
30	AB	622	LMG	C34-C35-C36-C37
30	BD	407	LMG	C31-C32-C33-C34
30	BD	408	LMG	C13-C14-C15-C16
32	BT	101	LMT	C2-C3-C4-C5
30	AA	413	LMG	C38-C39-C40-C41
26	AJ	102	BCR	C6-C7-C8-C9
26	BJ	102	BCR	C6-C7-C8-C9
27	AA	410	DGD	C5B-C6B-C7B-C8B
27	BB	602	DGD	C4B-C5B-C6B-C7B
29	BA	413	SQD	C9-C10-C11-C12
29	BA	413	SQD	C15-C16-C17-C18
29	BL	101	SQD	C12-C13-C14-C15
30	AA	413	LMG	C29-C30-C31-C32
30	AD	408	LMG	C13-C14-C15-C16
30	AI	101	LMG	C18-C19-C20-C21
30	BC	519	LMG	C12-C13-C14-C15
30	BD	407	LMG	C34-C35-C36-C37
29	BB	601	SQD	C8-C7-O47-C45
29	BL	101	SQD	C8-C7-O47-C45
30	AA	413	LMG	C11-C10-O7-C8
30	AE	102	LMG	C11-C10-O7-C8
30	BA	414	LMG	C11-C10-O7-C8
30	BE	102	LMG	C11-C10-O7-C8
22	BB	604	CLA	C4C-C3C-CAC-CBC
27	AC	518	DGD	CAB-CBB-CCB-CDB
29	BB	601	SQD	C9-C10-C11-C12
30	AC	519	LMG	C12-C13-C14-C15
30	BB	624	LMG	C34-C35-C36-C37
22	AC	503	CLA	C15-C16-C17-C18
27	AC	518	DGD	CDB-CEB-CFB-CGB

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Mol	Chain	Res	Type	Atoms
27	BC	518	DGD	CDB-CEB-CFB-CGB
30	BI	101	LMG	C18-C19-C20-C21
30	AE	102	LMG	O9-C10-O7-C8
30	BE	102	LMG	O9-C10-O7-C8
27	BC	518	DGD	CAB-CBB-CCB-CDB
30	AD	408	LMG	C2-C1-O1-C7
30	BD	408	LMG	C2-C1-O1-C7
29	AA	412	SQD	O47-C45-C46-O48
29	AD	409	SQD	O6-C44-C45-O47
29	BA	413	SQD	O47-C45-C46-O48
29	BD	409	SQD	O6-C44-C45-O47
30	AA	413	LMG	O1-C7-C8-O7
30	BA	414	LMG	O1-C7-C8-O7
29	AA	412	SQD	C15-C16-C17-C18
27	AB	626	DGD	C2A-C3A-C4A-C5A
27	BA	411	DGD	C5B-C6B-C7B-C8B
22	AA	404	CLA	C5-C6-C7-C8
22	AB	610	CLA	C4-C3-C5-C6
22	AB	610	CLA	C2-C3-C5-C6
22	BB	613	CLA	C2-C3-C5-C6
23	AA	405	PHO	C2-C3-C5-C6
23	BA	406	PHO	C2-C3-C5-C6
27	AC	517	DGD	C2B-C3B-C4B-C5B
22	AA	404	CLA	C6-C7-C8-C9
22	AB	601	CLA	C6-C7-C8-C9
22	AB	609	CLA	C14-C13-C15-C16
22	AB	613	CLA	C11-C10-C8-C9
22	AB	615	CLA	C14-C13-C15-C16
22	AC	502	CLA	C6-C7-C8-C9
22	AC	502	CLA	C14-C13-C15-C16
22	AC	503	CLA	C6-C7-C8-C9
22	AC	503	CLA	C11-C10-C8-C9
22	AC	505	CLA	C6-C7-C8-C9
22	AC	505	CLA	C14-C13-C15-C16
22	AC	507	CLA	C11-C10-C8-C9
22	BB	604	CLA	C6-C7-C8-C9
22	BB	612	CLA	C14-C13-C15-C16
22	BC	503	CLA	C6-C7-C8-C9
22	BC	503	CLA	C11-C10-C8-C9
22	BC	505	CLA	C6-C7-C8-C9
22	BC	505	CLA	C14-C13-C15-C16
22	BC	507	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
22	BC	513	CLA	C11-C10-C8-C9
23	AD	403	PHO	C6-C7-C8-C9
23	AD	403	PHO	C11-C10-C8-C9
23	BD	403	PHO	C6-C7-C8-C9
23	BD	403	PHO	C11-C10-C8-C9
23	BD	403	PHO	C14-C13-C15-C16
29	BB	601	SQD	C12-C13-C14-C15
30	BB	623	LMG	C32-C33-C34-C35
22	AA	402	CLA	C2A-CAA-CBA-CGA
27	BA	411	DGD	C4B-C5B-C6B-C7B
27	BB	602	DGD	C3A-C4A-C5A-C6A
29	BL	101	SQD	C9-C10-C11-C12
30	AA	413	LMG	C16-C17-C18-C19
30	BA	414	LMG	C29-C30-C31-C32
30	BE	102	LMG	C31-C32-C33-C34
27	AA	410	DGD	C4B-C5B-C6B-C7B
30	AB	621	LMG	C32-C33-C34-C35
22	AA	406	CLA	C1A-C2A-CAA-CBA
22	AC	501	CLA	C1A-C2A-CAA-CBA
22	AC	507	CLA	C1A-C2A-CAA-CBA
22	AC	512	CLA	C1A-C2A-CAA-CBA
22	BA	407	CLA	C1A-C2A-CAA-CBA
22	BC	501	CLA	C1A-C2A-CAA-CBA
22	BC	507	CLA	C1A-C2A-CAA-CBA
22	BC	512	CLA	C1A-C2A-CAA-CBA
29	BB	601	SQD	O49-C7-O47-C45
29	BL	101	SQD	O49-C7-O47-C45
27	BD	410	DGD	CBA-CCA-CDA-CEA
22	AB	608	CLA	C5-C6-C7-C8
22	AB	610	CLA	C8-C10-C11-C12
22	AC	509	CLA	C5-C6-C7-C8
22	BB	613	CLA	C8-C10-C11-C12
22	BC	503	CLA	C15-C16-C17-C18
22	BC	513	CLA	C13-C15-C16-C17
23	AD	403	PHO	C13-C15-C16-C17
23	BD	403	PHO	C10-C11-C12-C13
28	BC	521	LHG	C3-O3-P-O6
27	AB	626	DGD	C4B-C5B-C6B-C7B
30	BD	408	LMG	C14-C15-C16-C17
32	AI	102	LMT	C5'-C4'-O1B-C1B
32	BI	102	LMT	C5'-C4'-O1B-C1B
27	AC	517	DGD	C1A-C2A-C3A-C4A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
28	BC	521	LHG	C23-C24-C25-C26
22	AA	404	CLA	C3-C5-C6-C7
22	BB	605	CLA	C3-C5-C6-C7
22	AC	513	CLA	C13-C15-C16-C17
32	BB	626	LMT	C2B-C1B-O1B-C4'
27	AC	517	DGD	C7A-C8A-C9A-CAA
30	AB	621	LMG	C19-C20-C21-C22
30	BB	623	LMG	C19-C20-C21-C22
27	AD	410	DGD	CBA-CCA-CDA-CEA
27	BC	517	DGD	C7A-C8A-C9A-CAA
30	AA	413	LMG	C20-C21-C22-C23
30	BA	414	LMG	C16-C17-C18-C19
30	BA	414	LMG	C20-C21-C22-C23
30	AA	416	LMG	O6-C5-C6-O5
27	BH	101	DGD	C4B-C5B-C6B-C7B
30	AM	101	LMG	C13-C14-C15-C16
30	BM	102	LMG	C13-C14-C15-C16
22	BA	405	CLA	C5-C6-C7-C8
30	AD	408	LMG	C14-C15-C16-C17
30	AA	413	LMG	O9-C10-O7-C8
30	BA	414	LMG	O9-C10-O7-C8
22	BB	613	CLA	C4-C3-C5-C6
30	AB	623	LMG	C13-C14-C15-C16
30	AD	407	LMG	C14-C15-C16-C17
22	AB	605	CLA	C10-C11-C12-C13
32	AB	625	LMT	C2B-C1B-O1B-C4'
27	AH	102	DGD	C4B-C5B-C6B-C7B
27	BC	517	DGD	C2B-C3B-C4B-C5B
30	AE	102	LMG	C31-C32-C33-C34
30	BC	519	LMG	C30-C31-C32-C33
30	BD	407	LMG	C14-C15-C16-C17
28	AC	521	LHG	C23-C24-C25-C26
27	AB	626	DGD	C3A-C4A-C5A-C6A
27	AC	517	DGD	CBB-CCB-CDB-CEB
27	AH	102	DGD	O1G-C1G-C2G-C3G
27	BB	602	DGD	C1G-C2G-C3G-O3G
27	BC	517	DGD	C1G-C2G-C3G-O3G
27	BH	101	DGD	O1G-C1G-C2G-C3G
28	BA	412	LHG	C4-C5-C6-O8
29	AA	415	SQD	O6-C44-C45-C46
29	BA	401	SQD	O6-C44-C45-C46
29	BA	413	SQD	C44-C45-C46-O48

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Mol	Chain	Res	Type	Atoms
29	BB	601	SQD	C44-C45-C46-O48
29	BL	101	SQD	C44-C45-C46-O48
30	AC	519	LMG	C7-C8-C9-O8
30	AM	101	LMG	C7-C8-C9-O8
30	BA	414	LMG	O1-C7-C8-C9
30	BC	519	LMG	C7-C8-C9-O8
30	BM	102	LMG	C7-C8-C9-O8
22	BB	611	CLA	C5-C6-C7-C8
29	AF	101	SQD	C12-C13-C14-C15
30	BE	102	LMG	C19-C20-C21-C22
27	AA	410	DGD	C5D-C6D-O5D-C1E
27	AC	517	DGD	C5D-C6D-O5D-C1E
27	BA	411	DGD	C5D-C6D-O5D-C1E
27	BC	517	DGD	C5D-C6D-O5D-C1E
30	AA	413	LMG	C8-C7-O1-C1
30	AD	408	LMG	C8-C7-O1-C1
30	BA	414	LMG	C8-C7-O1-C1
30	BD	408	LMG	C8-C7-O1-C1
22	AB	601	CLA	C4C-C3C-CAC-CBC
29	AA	415	SQD	C12-C13-C14-C15
29	BA	401	SQD	C12-C13-C14-C15
29	BA	401	SQD	C25-C26-C27-C28
22	BC	510	CLA	C13-C15-C16-C17
30	AB	623	LMG	O6-C5-C6-O5
30	AD	407	LMG	C28-C29-C30-C31
30	BD	407	LMG	C28-C29-C30-C31
27	AH	102	DGD	C2A-C3A-C4A-C5A
27	BA	411	DGD	C7B-C8B-C9B-CAB
30	AC	519	LMG	C30-C31-C32-C33
22	AB	602	CLA	C3-C5-C6-C7
27	BH	101	DGD	C2A-C3A-C4A-C5A
29	AA	415	SQD	C25-C26-C27-C28
30	AA	416	LMG	C13-C14-C15-C16
28	BC	521	LHG	C7-C8-C9-C10
28	BC	521	LHG	C11-C12-C13-C14
32	AB	627	LMT	C1-C2-C3-C4
32	BB	603	LMT	C1-C2-C3-C4
27	AH	102	DGD	CAB-CBB-CCB-CDB
30	AB	621	LMG	C30-C31-C32-C33
22	BB	608	CLA	C10-C11-C12-C13
30	AE	102	LMG	C19-C20-C21-C22
32	AB	627	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
32	BB	603	LMT	C5'-C4'-O1B-C1B
28	AC	521	LHG	C7-C8-C9-C10
22	BC	501	CLA	C10-C11-C12-C13
23	BD	403	PHO	C13-C15-C16-C17
27	BC	517	DGD	CBB-CCB-CDB-CEB
27	BH	101	DGD	CAB-CBB-CCB-CDB
28	AC	521	LHG	C11-C12-C13-C14
22	AC	501	CLA	C10-C11-C12-C13
32	BB	626	LMT	O5B-C1B-O1B-C4'
22	AA	403	CLA	C3-C5-C6-C7
22	BA	404	CLA	C3-C5-C6-C7
30	AC	519	LMG	C15-C16-C17-C18
22	AB	610	CLA	C13-C15-C16-C17
27	AC	518	DGD	C4B-C5B-C6B-C7B
29	AA	412	SQD	C17-C18-C19-C20
30	AB	622	LMG	C38-C39-C40-C41
30	BB	623	LMG	C13-C14-C15-C16
29	AF	101	SQD	C29-C30-C31-C32
29	BF	101	SQD	C12-C13-C14-C15
30	AD	407	LMG	C38-C39-C40-C41
32	AB	625	LMT	O5B-C1B-O1B-C4'
23	BA	406	PHO	C5-C6-C7-C8
27	AA	410	DGD	C7B-C8B-C9B-CAB
30	BD	407	LMG	C38-C39-C40-C41
22	AC	510	CLA	C13-C15-C16-C17
22	AC	513	CLA	C5-C6-C7-C8
29	AD	409	SQD	C2-C1-O6-C44
29	BD	409	SQD	C2-C1-O6-C44
30	AM	101	LMG	C2-C1-O1-C7
30	BM	102	LMG	C2-C1-O1-C7
29	BF	101	SQD	C29-C30-C31-C32
27	AC	517	DGD	O2G-C2G-C3G-O3G
27	BC	517	DGD	O2G-C2G-C3G-O3G
30	AD	408	LMG	O1-C7-C8-O7
30	BD	408	LMG	O1-C7-C8-O7
27	BD	410	DGD	CBB-CCB-CDB-CEB
29	AF	101	SQD	C15-C16-C17-C18
29	BF	101	SQD	C15-C16-C17-C18
30	BB	623	LMG	C30-C31-C32-C33
30	BC	519	LMG	C15-C16-C17-C18
22	AB	612	CLA	C4-C3-C5-C6
22	BB	615	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
22	AA	403	CLA	C6-C7-C8-C10
22	AA	404	CLA	C6-C7-C8-C10
22	AB	602	CLA	C11-C10-C8-C7
22	AB	602	CLA	C12-C13-C15-C16
22	AB	609	CLA	C12-C13-C15-C16
22	AB	611	CLA	C6-C7-C8-C10
22	AB	615	CLA	C11-C10-C8-C7
22	AB	615	CLA	C12-C13-C15-C16
22	AC	502	CLA	C12-C13-C15-C16
22	AC	505	CLA	C12-C13-C15-C16
22	AC	510	CLA	C6-C7-C8-C10
22	AC	511	CLA	C11-C10-C8-C7
22	AC	512	CLA	C11-C12-C13-C15
22	AC	512	CLA	C12-C13-C15-C16
22	AD	404	CLA	C11-C10-C8-C7
22	BA	404	CLA	C6-C7-C8-C10
22	BA	405	CLA	C6-C7-C8-C10
22	BB	605	CLA	C11-C10-C8-C7
22	BB	605	CLA	C12-C13-C15-C16
22	BB	612	CLA	C12-C13-C15-C16
22	BB	614	CLA	C6-C7-C8-C10
22	BB	618	CLA	C11-C10-C8-C7
22	BB	618	CLA	C12-C13-C15-C16
22	BC	502	CLA	C12-C13-C15-C16
22	BC	505	CLA	C12-C13-C15-C16
22	BC	508	CLA	C11-C10-C8-C7
22	BC	510	CLA	C6-C7-C8-C10
22	BC	512	CLA	C11-C12-C13-C15
22	BC	512	CLA	C12-C13-C15-C16
22	BD	404	CLA	C11-C10-C8-C7
23	AD	403	PHO	C11-C10-C8-C7
23	AD	403	PHO	C12-C13-C15-C16
23	BD	403	PHO	C11-C10-C8-C7
23	BD	403	PHO	C12-C13-C15-C16
22	BA	405	CLA	C3-C5-C6-C7
30	AA	416	LMG	C14-C15-C16-C17
30	AB	621	LMG	C13-C14-C15-C16
30	BB	624	LMG	C38-C39-C40-C41
22	AB	602	CLA	C11-C10-C8-C9
22	AB	606	CLA	C14-C13-C15-C16
22	AB	608	CLA	C11-C12-C13-C14
22	AB	613	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
22	AC	511	CLA	C11-C10-C8-C9
22	AC	512	CLA	C11-C12-C13-C14
22	AC	513	CLA	C6-C7-C8-C9
22	AC	513	CLA	C11-C10-C8-C9
22	AD	402	CLA	C14-C13-C15-C16
22	BA	405	CLA	C6-C7-C8-C9
22	BB	611	CLA	C11-C12-C13-C14
22	BB	614	CLA	C6-C7-C8-C9
22	BB	616	CLA	C11-C10-C8-C9
22	BB	616	CLA	C11-C12-C13-C14
22	BB	618	CLA	C14-C13-C15-C16
22	BC	502	CLA	C6-C7-C8-C9
22	BC	502	CLA	C14-C13-C15-C16
22	BC	506	CLA	C14-C13-C15-C16
22	BC	511	CLA	C11-C10-C8-C9
22	BC	512	CLA	C11-C12-C13-C14
22	BD	402	CLA	C14-C13-C15-C16
23	AD	403	PHO	C14-C13-C15-C16
27	BC	517	DGD	C1A-C2A-C3A-C4A
27	BC	517	DGD	C8B-C9B-CAB-CBB
28	BA	412	LHG	C9-C10-C11-C12
22	BB	613	CLA	C13-C15-C16-C17
27	BC	518	DGD	CFA-CGA-CHA-CIA
30	AC	520	LMG	C34-C35-C36-C37
29	AF	101	SQD	C10-C11-C12-C13
27	AC	518	DGD	CFA-CGA-CHA-CIA
30	AB	623	LMG	C14-C15-C16-C17
27	AC	518	DGD	C2A-C1A-O1G-C1G
28	AA	411	LHG	C9-C10-C11-C12
22	AB	610	CLA	C5-C6-C7-C8
22	BB	613	CLA	C5-C6-C7-C8
32	AT	101	LMT	C6-C7-C8-C9
26	BZ	101	BCR	C6-C7-C8-C9
24	BA	408	PL9	C24-C26-C27-C28
27	BC	517	DGD	C3A-C4A-C5A-C6A
27	BH	101	DGD	C5A-C6A-C7A-C8A
27	AC	517	DGD	C8B-C9B-CAB-CBB
30	AC	520	LMG	C36-C37-C38-C39
22	BC	513	CLA	C5-C6-C7-C8
27	BC	518	DGD	CBA-CCA-CDA-CEA
22	AB	612	CLA	C2-C3-C5-C6
22	BB	615	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
27	AA	410	DGD	C1A-C2A-C3A-C4A
27	AC	517	DGD	CDB-CEB-CFB-CGB
29	BA	413	SQD	C17-C18-C19-C20
22	AC	505	CLA	C15-C16-C17-C18
27	AA	410	DGD	C3B-C4B-C5B-C6B
27	BC	518	DGD	C4B-C5B-C6B-C7B
27	AC	517	DGD	C3A-C4A-C5A-C6A
22	AC	506	CLA	C15-C16-C17-C18
23	AA	405	PHO	C5-C6-C7-C8
30	BC	519	LMG	C28-C29-C30-C31
27	BC	517	DGD	CDB-CEB-CFB-CGB
29	BB	601	SQD	C17-C18-C19-C20
28	AA	411	LHG	C2-C3-O3-P
28	BA	412	LHG	C2-C3-O3-P
22	AC	513	CLA	C3A-C2A-CAA-CBA
22	BC	513	CLA	C3A-C2A-CAA-CBA
27	AD	410	DGD	CBB-CCB-CDB-CEB
32	BT	101	LMT	C6-C7-C8-C9
27	AH	102	DGD	C5A-C6A-C7A-C8A
30	AB	621	LMG	C16-C17-C18-C19
27	BA	411	DGD	C3B-C4B-C5B-C6B
30	AD	407	LMG	C19-C20-C21-C22
22	AB	612	CLA	C10-C11-C12-C13
22	AC	511	CLA	C5-C6-C7-C8
27	AB	626	DGD	C1G-C2G-C3G-O3G
27	AD	410	DGD	C1G-C2G-C3G-O3G
27	BD	410	DGD	C1G-C2G-C3G-O3G
28	AA	411	LHG	C4-C5-C6-O8
29	AA	412	SQD	C44-C45-C46-O48
29	AD	409	SQD	O6-C44-C45-C46
29	BD	409	SQD	O6-C44-C45-C46
30	AA	413	LMG	O1-C7-C8-C9
30	AB	621	LMG	O1-C7-C8-C9
30	AD	408	LMG	O1-C7-C8-C9
30	AE	102	LMG	O1-C7-C8-C9
30	BB	623	LMG	O1-C7-C8-C9
30	BE	102	LMG	O1-C7-C8-C9
27	BH	101	DGD	CCA-CDA-CEA-CFA
30	BC	519	LMG	C32-C33-C34-C35
30	BC	520	LMG	C34-C35-C36-C37
30	AB	623	LMG	C17-C18-C19-C20
30	AC	519	LMG	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
27	BC	517	DGD	C6B-C7B-C8B-C9B
30	BI	101	LMG	C31-C32-C33-C34
30	BB	623	LMG	C16-C17-C18-C19
30	BC	520	LMG	C36-C37-C38-C39
27	BA	411	DGD	C2A-C3A-C4A-C5A
27	AC	517	DGD	CBA-CCA-CDA-CEA
27	BH	101	DGD	C7B-C8B-C9B-CAB
30	AA	416	LMG	C17-C18-C19-C20
30	BD	407	LMG	C19-C20-C21-C22
22	BC	506	CLA	C15-C16-C17-C18
30	AC	519	LMG	C28-C29-C30-C31
27	AB	626	DGD	C4A-C5A-C6A-C7A
29	BL	101	SQD	C17-C18-C19-C20
30	BA	414	LMG	C15-C16-C17-C18
27	BC	518	DGD	C2A-C1A-O1G-C1G
24	AD	405	PL9	C7-C8-C9-C10
27	BA	411	DGD	C1A-C2A-C3A-C4A
27	BB	602	DGD	C4A-C5A-C6A-C7A
27	AC	516	DGD	C4E-C5E-C6E-O5E
27	BC	517	DGD	CBA-CCA-CDA-CEA
22	AC	503	CLA	C8-C10-C11-C12
27	AC	517	DGD	C6B-C7B-C8B-C9B
30	BC	519	LMG	C20-C21-C22-C23
30	BI	101	LMG	C2-C1-O1-C7
30	BM	102	LMG	C14-C15-C16-C17
28	AA	411	LHG	O7-C5-C6-O8
28	BA	412	LHG	O7-C5-C6-O8
30	AB	621	LMG	O1-C7-C8-O7
30	BB	623	LMG	O1-C7-C8-O7
30	BE	102	LMG	O1-C7-C8-O7
27	AA	410	DGD	C2A-C3A-C4A-C5A
30	AA	413	LMG	C15-C16-C17-C18
30	AB	623	LMG	C29-C30-C31-C32
30	AC	519	LMG	C20-C21-C22-C23
22	AB	614	CLA	C2-C1-O2A-CGA
22	AC	502	CLA	C2-C1-O2A-CGA
22	BB	604	CLA	C2-C1-O2A-CGA
22	BB	617	CLA	C2-C1-O2A-CGA
22	BC	502	CLA	C2-C1-O2A-CGA
29	BF	101	SQD	C10-C11-C12-C13
30	AI	101	LMG	C31-C32-C33-C34
30	AM	101	LMG	C34-C35-C36-C37

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Mol	Chain	Res	Type	Atoms
30	BM	102	LMG	C34-C35-C36-C37
22	BC	501	CLA	C13-C15-C16-C17
22	AB	611	CLA	C6-C7-C8-C9
22	AB	616	CLA	C11-C10-C8-C9
22	AC	506	CLA	C14-C13-C15-C16
22	BB	605	CLA	C11-C10-C8-C9
22	BB	609	CLA	C14-C13-C15-C16
22	BC	513	CLA	C6-C7-C8-C9
22	AC	501	CLA	C8-C10-C11-C12
22	BA	404	CLA	C5-C6-C7-C8
27	AC	518	DGD	O1A-C1A-O1G-C1G
27	AH	102	DGD	CCA-CDA-CEA-CFA
27	AH	102	DGD	C7B-C8B-C9B-CAB
30	AM	101	LMG	C14-C15-C16-C17
26	AB	618	BCR	C23-C24-C25-C26
26	AJ	102	BCR	C23-C24-C25-C30
26	AT	102	BCR	C23-C24-C25-C26
26	BJ	102	BCR	C5-C6-C7-C8
22	BB	615	CLA	C10-C11-C12-C13
22	BC	501	CLA	C8-C10-C11-C12
22	BC	503	CLA	C8-C10-C11-C12
27	BC	517	DGD	CEB-CFB-CGB-CHB
30	AC	520	LMG	C13-C14-C15-C16
22	AC	501	CLA	C13-C15-C16-C17
30	AC	519	LMG	C17-C18-C19-C20
30	BA	414	LMG	C36-C37-C38-C39
22	BC	512	CLA	C16-C17-C18-C20
27	BD	410	DGD	CAA-CBA-CCA-CDA
30	AA	416	LMG	C29-C30-C31-C32
29	AA	415	SQD	C19-C20-C21-C22
30	BD	408	LMG	C31-C32-C33-C34
22	AA	403	CLA	C12-C13-C15-C16
22	AB	601	CLA	C11-C10-C8-C7
22	AB	605	CLA	C6-C7-C8-C10
22	AB	605	CLA	C11-C10-C8-C7
22	AB	606	CLA	C12-C13-C15-C16
22	AB	608	CLA	C6-C7-C8-C10
22	AB	608	CLA	C11-C12-C13-C15
22	AB	613	CLA	C11-C12-C13-C15
22	AB	616	CLA	C11-C10-C8-C7
22	AC	504	CLA	C6-C7-C8-C10
22	AC	506	CLA	C11-C12-C13-C15

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Mol	Chain	Res	Type	Atoms
22	AC	506	CLA	C12-C13-C15-C16
22	AC	511	CLA	C6-C7-C8-C10
22	AC	513	CLA	C6-C7-C8-C10
22	AD	402	CLA	C12-C13-C15-C16
22	AD	404	CLA	C12-C13-C15-C16
22	BB	604	CLA	C11-C10-C8-C7
22	BB	608	CLA	C6-C7-C8-C10
22	BB	608	CLA	C11-C10-C8-C7
22	BB	609	CLA	C12-C13-C15-C16
22	BB	611	CLA	C6-C7-C8-C10
22	BB	611	CLA	C11-C12-C13-C15
22	BB	616	CLA	C11-C12-C13-C15
22	BB	619	CLA	C11-C10-C8-C7
22	BC	504	CLA	C6-C7-C8-C10
22	BC	506	CLA	C11-C12-C13-C15
22	BC	511	CLA	C6-C7-C8-C10
22	BC	513	CLA	C6-C7-C8-C10
22	BD	402	CLA	C12-C13-C15-C16
22	BD	404	CLA	C12-C13-C15-C16
22	BC	505	CLA	C15-C16-C17-C18
22	BC	511	CLA	C5-C6-C7-C8
22	BC	512	CLA	C16-C17-C18-C19
28	AA	411	LHG	C35-C36-C37-C38
30	BB	624	LMG	C36-C37-C38-C39
22	BD	404	CLA	C2A-CAA-CBA-CGA
27	AC	517	DGD	CEB-CFB-CGB-CHB
27	AC	518	DGD	CBA-CCA-CDA-CEA
27	BB	602	DGD	C5B-C6B-C7B-C8B
30	AB	622	LMG	C36-C37-C38-C39
29	BA	401	SQD	C10-C11-C12-C13
22	AA	403	CLA	C5-C6-C7-C8
30	AD	407	LMG	C13-C14-C15-C16
30	BB	624	LMG	C18-C19-C20-C21
22	AB	612	CLA	CAD-CBD-CGD-O2D
22	AB	613	CLA	CAD-CBD-CGD-O2D
22	BB	615	CLA	CAD-CBD-CGD-O2D
22	BB	616	CLA	CAD-CBD-CGD-O2D
22	BD	402	CLA	CAD-CBD-CGD-O2D
23	AD	403	PHO	CAD-CBD-CGD-O2D
23	BD	403	PHO	CAD-CBD-CGD-O2D
30	AC	520	LMG	C9-C8-O7-C10
27	AB	626	DGD	C5B-C6B-C7B-C8B

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
30	AI	101	LMG	C19-C20-C21-C22
30	BC	519	LMG	C17-C18-C19-C20
30	BI	101	LMG	C19-C20-C21-C22
22	AB	608	CLA	C13-C15-C16-C17
22	BB	616	CLA	C8-C10-C11-C12
26	AZ	101	BCR	C6-C7-C8-C9
22	AC	512	CLA	C16-C17-C18-C20
30	BC	520	LMG	C13-C14-C15-C16
30	BD	408	LMG	O1-C7-C8-C9
27	BC	516	DGD	C4E-C5E-C6E-O5E
22	AD	404	CLA	C2A-CAA-CBA-CGA
30	AA	413	LMG	C36-C37-C38-C39
22	AC	512	CLA	C16-C17-C18-C19
30	BM	102	LMG	C30-C31-C32-C33
22	AB	602	CLA	CHA-CBD-CGD-O1D
22	BB	605	CLA	CHA-CBD-CGD-O1D
28	BA	412	LHG	C35-C36-C37-C38
27	BC	518	DGD	O1A-C1A-O1G-C1G
30	AI	101	LMG	C2-C1-O1-C7
27	AH	102	DGD	O1G-C1G-C2G-O2G
27	BH	101	DGD	O1G-C1G-C2G-O2G
29	BB	601	SQD	O47-C45-C46-O48
29	BL	101	SQD	O47-C45-C46-O48
30	AE	102	LMG	O1-C7-C8-O7
29	BA	401	SQD	C19-C20-C21-C22
30	AC	519	LMG	C38-C39-C40-C41
30	AB	622	LMG	C18-C19-C20-C21
30	BD	407	LMG	C13-C14-C15-C16
30	AD	408	LMG	C31-C32-C33-C34
24	AA	407	PL9	C4-C3-C7-C8
24	BA	408	PL9	C4-C3-C7-C8
29	AA	415	SQD	C10-C11-C12-C13
22	AA	403	CLA	C14-C13-C15-C16
22	AB	601	CLA	C11-C10-C8-C9
22	AD	404	CLA	C14-C13-C15-C16
22	BA	404	CLA	C14-C13-C15-C16
22	BB	604	CLA	C11-C10-C8-C9
22	BB	619	CLA	C11-C10-C8-C9
22	BC	506	CLA	C11-C12-C13-C14
22	BD	404	CLA	C14-C13-C15-C16
27	BC	516	DGD	C5A-C6A-C7A-C8A
30	AM	101	LMG	C30-C31-C32-C33

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Mol	Chain	Res	Type	Atoms
22	AC	505	CLA	C2C-C3C-CAC-CBC
22	AB	613	CLA	C8-C10-C11-C12
22	AC	501	CLA	C2A-CAA-CBA-CGA
29	AF	101	SQD	C11-C12-C13-C14
27	BB	602	DGD	CAB-CBB-CCB-CDB
30	BC	519	LMG	C16-C17-C18-C19
29	AA	412	SQD	C25-C26-C27-C28
22	AA	404	CLA	C1A-C2A-CAA-CBA
22	BB	607	CLA	C1A-C2A-CAA-CBA
22	BB	612	CLA	C1A-C2A-CAA-CBA
30	AB	621	LMG	C28-C29-C30-C31
29	BA	413	SQD	C25-C26-C27-C28
27	AB	626	DGD	CAB-CBB-CCB-CDB
30	AD	408	LMG	C22-C23-C24-C25
30	BC	519	LMG	C38-C39-C40-C41
32	AB	627	LMT	O1'-C1-C2-C3
22	BC	505	CLA	C2C-C3C-CAC-CBC
29	AA	412	SQD	C24-C25-C26-C27
30	BA	414	LMG	C12-C13-C14-C15
22	AB	609	CLA	C4-C3-C5-C6
22	BB	612	CLA	C4-C3-C5-C6
22	BB	608	CLA	C3-C5-C6-C7
27	AH	102	DGD	C4D-C5D-C6D-O5D
29	AF	101	SQD	C9-C10-C11-C12
28	AC	521	LHG	C3-O3-P-O4
28	BC	521	LHG	C3-O3-P-O4
27	AC	516	DGD	C5A-C6A-C7A-C8A
32	BB	603	LMT	O1'-C1-C2-C3
24	AA	407	PL9	C24-C26-C27-C28
30	AE	102	LMG	O7-C10-C11-C12
27	AD	410	DGD	CAA-CBA-CCA-CDA
30	BD	408	LMG	C22-C23-C24-C25
22	BC	501	CLA	C2A-CAA-CBA-CGA
30	BD	408	LMG	C34-C35-C36-C37
30	AA	413	LMG	C12-C13-C14-C15
22	AB	614	CLA	CAD-CBD-CGD-O1D
22	BB	617	CLA	CAD-CBD-CGD-O1D
29	AA	412	SQD	C5-C6-S-O7
29	AA	412	SQD	C5-C6-S-O9
29	AA	415	SQD	O5-C5-C6-S
29	BA	401	SQD	O5-C5-C6-S
29	BA	413	SQD	C5-C6-S-O7

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Mol	Chain	Res	Type	Atoms
29	BA	413	SQD	C5-C6-S-O9
27	BH	101	DGD	C4D-C5D-C6D-O5D
22	BB	611	CLA	C13-C15-C16-C17
29	AA	415	SQD	C11-C10-C9-C8
29	BA	413	SQD	C24-C25-C26-C27
30	BD	408	LMG	C20-C21-C22-C23
30	AD	408	LMG	C34-C35-C36-C37
22	AA	406	CLA	C11-C10-C8-C7
22	AB	602	CLA	C6-C7-C8-C10
22	AB	603	CLA	C11-C10-C8-C7
22	AB	607	CLA	C11-C10-C8-C7
22	AB	611	CLA	C11-C10-C8-C7
22	AC	502	CLA	C11-C10-C8-C7
22	AC	504	CLA	C11-C10-C8-C7
22	AC	506	CLA	C6-C7-C8-C10
22	AC	507	CLA	C11-C12-C13-C15
22	AC	507	CLA	C12-C13-C15-C16
22	AC	508	CLA	C11-C10-C8-C7
22	BA	404	CLA	C12-C13-C15-C16
22	BA	407	CLA	C11-C10-C8-C7
22	BB	605	CLA	C6-C7-C8-C10
22	BB	606	CLA	C11-C10-C8-C7
22	BB	614	CLA	C11-C10-C8-C7
22	BC	502	CLA	C11-C10-C8-C7
22	BC	504	CLA	C11-C10-C8-C7
22	BC	506	CLA	C6-C7-C8-C10
22	BC	506	CLA	C12-C13-C15-C16
22	BC	507	CLA	C12-C13-C15-C16
30	BE	102	LMG	O7-C10-C11-C12
30	AD	407	LMG	C29-C30-C31-C32
30	BB	623	LMG	C28-C29-C30-C31
29	BF	101	SQD	C9-C10-C11-C12
30	BD	407	LMG	C29-C30-C31-C32
27	BA	411	DGD	C3A-C4A-C5A-C6A
30	AD	408	LMG	C20-C21-C22-C23
30	AM	101	LMG	C18-C19-C20-C21
22	AB	605	CLA	C3-C5-C6-C7
30	BC	519	LMG	C29-C30-C31-C32
22	AB	607	CLA	C15-C16-C17-C18
22	AB	605	CLA	C6-C7-C8-C9
22	AB	605	CLA	C11-C10-C8-C9
22	AB	615	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
22	AC	504	CLA	C6-C7-C8-C9
22	AC	506	CLA	C11-C12-C13-C14
22	AC	508	CLA	C6-C7-C8-C9
22	AC	512	CLA	C14-C13-C15-C16
22	BB	608	CLA	C6-C7-C8-C9
22	BB	608	CLA	C11-C10-C8-C9
22	BB	618	CLA	C11-C10-C8-C9
22	BC	504	CLA	C6-C7-C8-C9
22	BC	507	CLA	C14-C13-C15-C16
22	BC	508	CLA	C6-C7-C8-C9
22	BC	510	CLA	C6-C7-C8-C9
22	BC	512	CLA	C14-C13-C15-C16
26	AC	515	BCR	C6-C7-C8-C9
26	BC	515	BCR	C6-C7-C8-C9
29	BA	401	SQD	C11-C10-C9-C8
30	AC	519	LMG	C16-C17-C18-C19
30	BM	102	LMG	C18-C19-C20-C21
24	BD	405	PL9	C7-C8-C9-C10
24	BD	405	PL9	C17-C18-C19-C20
22	BB	614	CLA	C8-C10-C11-C12
22	AB	613	CLA	C10-C11-C12-C13
27	AA	410	DGD	C3A-C4A-C5A-C6A
27	AD	410	DGD	C9B-CAB-CBB-CCB
27	BD	410	DGD	C9B-CAB-CBB-CCB
29	BA	413	SQD	C10-C11-C12-C13
22	AB	609	CLA	C2-C3-C5-C6
29	AA	412	SQD	C10-C11-C12-C13
27	AC	518	DGD	C3G-C2G-O2G-C1B
27	BC	518	DGD	C3G-C2G-O2G-C1B
28	AA	411	LHG	C4-C5-O7-C7
30	BC	520	LMG	C9-C8-O7-C10
22	AC	513	CLA	C2A-CAA-CBA-CGA
22	BB	608	CLA	C2A-CAA-CBA-CGA
22	BC	513	CLA	C2A-CAA-CBA-CGA
22	AB	601	CLA	C2-C1-O2A-CGA
22	AB	606	CLA	C2-C1-O2A-CGA
22	AB	610	CLA	C2-C1-O2A-CGA
22	BB	612	CLA	C2-C1-O2A-CGA
22	BB	613	CLA	C2-C1-O2A-CGA
22	AB	605	CLA	C15-C16-C17-C18
30	AC	519	LMG	C29-C30-C31-C32
29	BF	101	SQD	C25-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
32	AB	624	LMT	O1'-C1-C2-C3
22	BB	612	CLA	C2-C3-C5-C6
22	BB	617	CLA	C13-C15-C16-C17
30	BI	101	LMG	C17-C18-C19-C20
30	BA	414	LMG	C11-C12-C13-C14
30	BA	414	LMG	C40-C41-C42-C43
22	BC	508	CLA	C13-C15-C16-C17
22	AB	605	CLA	C2A-CAA-CBA-CGA
27	AC	518	DGD	CCB-CDB-CEB-CFB
27	AD	410	DGD	O2G-C2G-C3G-O3G
27	BD	410	DGD	O2G-C2G-C3G-O3G
30	AC	519	LMG	O7-C8-C9-O8
30	BC	519	LMG	O7-C8-C9-O8
30	BM	102	LMG	O7-C8-C9-O8
28	AA	411	LHG	C3-O3-P-O6
28	BA	412	LHG	C3-O3-P-O6
27	BB	602	DGD	C1B-C2B-C3B-C4B
30	AA	413	LMG	C11-C12-C13-C14
32	BB	625	LMT	O1'-C1-C2-C3
32	BI	102	LMT	C7-C8-C9-C10
32	AI	102	LMT	C7-C8-C9-C10
22	AA	403	CLA	C10-C11-C12-C13
22	AB	616	CLA	C8-C10-C11-C12
29	BF	101	SQD	C11-C12-C13-C14
29	AD	409	SQD	C44-C45-C46-O48
29	BD	409	SQD	C44-C45-C46-O48
22	AB	601	CLA	C12-C13-C15-C16
22	AB	603	CLA	C11-C12-C13-C15
22	AC	502	CLA	C6-C7-C8-C10
22	BB	604	CLA	C12-C13-C15-C16
22	BC	502	CLA	C6-C7-C8-C10
22	BC	507	CLA	C11-C12-C13-C15
29	BL	101	SQD	C27-C28-C29-C30
29	BB	601	SQD	C27-C28-C29-C30
32	AB	624	LMT	C4-C5-C6-C7
22	AA	406	CLA	C11-C10-C8-C9
22	AB	601	CLA	C14-C13-C15-C16
22	AC	506	CLA	C6-C7-C8-C9
22	AC	507	CLA	C14-C13-C15-C16
22	AC	508	CLA	C11-C10-C8-C9
22	AC	510	CLA	C6-C7-C8-C9
22	AD	404	CLA	C11-C10-C8-C9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
22	BA	407	CLA	C11-C10-C8-C9
22	BC	506	CLA	C6-C7-C8-C9
22	BC	508	CLA	C11-C10-C8-C9
22	BD	404	CLA	C11-C10-C8-C9
32	BB	625	LMT	C4-C5-C6-C7
27	AC	517	DGD	C7B-C8B-C9B-CAB
30	AD	407	LMG	C32-C33-C34-C35
30	AA	413	LMG	C40-C41-C42-C43
22	AB	611	CLA	C8-C10-C11-C12
22	AC	509	CLA	C10-C11-C12-C13
22	BB	606	CLA	C13-C15-C16-C17
29	AA	415	SQD	C9-C10-C11-C12
22	AC	512	CLA	CAA-CBA-CGA-O2A
22	BC	512	CLA	CAA-CBA-CGA-O2A
30	BD	408	LMG	C16-C17-C18-C19
22	AB	614	CLA	C13-C15-C16-C17
22	BB	616	CLA	C10-C11-C12-C13
26	BC	515	BCR	C22-C23-C24-C25
22	AC	503	CLA	C2A-CAA-CBA-CGA
22	BB	614	CLA	C5-C6-C7-C8
27	BD	410	DGD	C5B-C6B-C7B-C8B
30	BC	520	LMG	C15-C16-C17-C18
29	AA	415	SQD	C30-C31-C32-C33
22	BC	505	CLA	C4-C3-C5-C6
27	BC	517	DGD	C7B-C8B-C9B-CAB
29	AA	412	SQD	C19-C20-C21-C22
29	AF	101	SQD	C25-C26-C27-C28
22	AB	614	CLA	C2A-CAA-CBA-CGA
22	BB	617	CLA	C2A-CAA-CBA-CGA
27	BH	101	DGD	C8B-C9B-CAB-CBB
22	AB	601	CLA	C3A-C2A-CAA-CBA
22	AB	616	CLA	C3A-C2A-CAA-CBA
22	BB	604	CLA	C3A-C2A-CAA-CBA
22	BB	619	CLA	C3A-C2A-CAA-CBA
29	BB	601	SQD	C10-C11-C12-C13
30	AC	520	LMG	C15-C16-C17-C18
22	AC	505	CLA	C4-C3-C5-C6
22	BA	404	CLA	C10-C11-C12-C13
30	AI	101	LMG	C17-C18-C19-C20
30	BD	407	LMG	C32-C33-C34-C35
22	AC	507	CLA	C11-C12-C13-C14
22	AC	509	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
22	BB	604	CLA	C14-C13-C15-C16
22	BB	613	CLA	C14-C13-C15-C16
22	BC	507	CLA	C11-C12-C13-C14
22	AC	512	CLA	C10-C11-C12-C13
22	BC	503	CLA	C2A-CAA-CBA-CGA
30	AD	408	LMG	C16-C17-C18-C19
23	AD	403	PHO	O2A-C1-C2-C3
23	BD	403	PHO	O2A-C1-C2-C3
27	BA	411	DGD	O6E-C5E-C6E-O5E
22	BC	512	CLA	C10-C11-C12-C13
27	AC	518	DGD	C7A-C8A-C9A-CAA
29	BA	413	SQD	C19-C20-C21-C22
28	BA	412	LHG	C4-C5-O7-C7
22	AB	601	CLA	C1A-C2A-CAA-CBA
22	AB	604	CLA	C1A-C2A-CAA-CBA
22	AC	513	CLA	C1A-C2A-CAA-CBA
22	BA	405	CLA	C1A-C2A-CAA-CBA
22	BB	604	CLA	C1A-C2A-CAA-CBA
22	BC	513	CLA	C1A-C2A-CAA-CBA
22	AB	612	CLA	C12-C13-C15-C16
22	AB	614	CLA	C11-C10-C8-C7
22	AC	510	CLA	C11-C12-C13-C15
22	AD	402	CLA	C11-C10-C8-C7
22	BB	610	CLA	C11-C10-C8-C7
22	BB	615	CLA	C12-C13-C15-C16
22	BB	617	CLA	C11-C10-C8-C7
22	BC	510	CLA	C11-C12-C13-C15
22	BD	402	CLA	C11-C10-C8-C7
27	BC	518	DGD	CCB-CDB-CEB-CFB
22	BB	619	CLA	C8-C10-C11-C12
27	AB	626	DGD	C1B-C2B-C3B-C4B
29	BA	401	SQD	C9-C10-C11-C12
22	BB	607	CLA	C15-C16-C17-C18
27	AH	102	DGD	C8B-C9B-CAB-CBB
22	AB	603	CLA	C13-C15-C16-C17
22	AB	604	CLA	C15-C16-C17-C18
22	BB	609	CLA	C15-C16-C17-C18
22	BC	509	CLA	C10-C11-C12-C13
29	BL	101	SQD	C10-C11-C12-C13
22	BB	610	CLA	C15-C16-C17-C18
22	AB	611	CLA	C4-C3-C5-C6
22	BB	614	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
22	BB	608	CLA	C15-C16-C17-C18
22	AC	505	CLA	C2-C3-C5-C6
22	BC	505	CLA	C2-C3-C5-C6
30	AA	413	LMG	C33-C34-C35-C36
22	AB	611	CLA	C5-C6-C7-C8
29	BL	101	SQD	C15-C16-C17-C18
29	BA	401	SQD	O49-C7-O47-C45
30	AD	407	LMG	C2-C1-O1-C7
30	AM	101	LMG	O7-C8-C9-O8
22	AA	406	CLA	C1-C2-C3-C5
26	AB	617	BCR	C6-C7-C8-C9
26	BB	620	BCR	C6-C7-C8-C9
22	AB	606	CLA	C15-C16-C17-C18
22	AC	508	CLA	C13-C15-C16-C17
22	BB	613	CLA	C10-C11-C12-C13
34	AE	101	HEM	CAA-CBA-CGA-O1A
34	BE	101	HEM	CAA-CBA-CGA-O1A
22	BB	604	CLA	C4-C3-C5-C6
22	BC	512	CLA	C4-C3-C5-C6
22	AB	611	CLA	C2-C1-O2A-CGA
22	AB	616	CLA	C2-C1-O2A-CGA
22	BB	609	CLA	C2-C1-O2A-CGA
22	BB	614	CLA	C2-C1-O2A-CGA
22	BB	615	CLA	C2-C1-O2A-CGA
22	BC	509	CLA	C14-C13-C15-C16
29	AA	415	SQD	C15-C16-C17-C18
29	BA	401	SQD	C30-C31-C32-C33
27	AD	410	DGD	C5B-C6B-C7B-C8B
22	BA	407	CLA	C1-C2-C3-C5
26	AB	618	BCR	C23-C24-C25-C30
26	AJ	102	BCR	C1-C6-C7-C8
26	AJ	102	BCR	C5-C6-C7-C8
26	AT	102	BCR	C23-C24-C25-C30
26	BJ	102	BCR	C1-C6-C7-C8
26	BJ	102	BCR	C23-C24-C25-C30
30	BA	414	LMG	C33-C34-C35-C36
23	BA	406	PHO	C8-C10-C11-C12
22	AB	601	CLA	C4-C3-C5-C6
22	AC	512	CLA	C4-C3-C5-C6
34	BV	201	HEM	CAD-CBD-CGD-O2D
27	AA	410	DGD	C4A-C5A-C6A-C7A
32	BM	101	LMT	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
30	AB	621	LMG	C8-C7-O1-C1
30	BB	623	LMG	C8-C7-O1-C1
29	BB	601	SQD	C15-C16-C17-C18
32	AM	102	LMT	C1-C2-C3-C4
27	BD	410	DGD	O6D-C5D-C6D-O5D
27	BA	411	DGD	C4A-C5A-C6A-C7A
30	BI	101	LMG	C15-C16-C17-C18
22	AB	611	CLA	C2-C3-C5-C6
22	BB	606	CLA	C11-C12-C13-C15
22	BB	614	CLA	C2-C3-C5-C6
22	AB	609	CLA	C1-C2-C3-C4
22	AB	613	CLA	C1-C2-C3-C4
22	AB	614	CLA	C1-C2-C3-C4
22	AC	501	CLA	C1-C2-C3-C4
22	AD	404	CLA	C1-C2-C3-C4
22	BB	612	CLA	C1-C2-C3-C4
22	BB	616	CLA	C1-C2-C3-C4
22	BB	617	CLA	C1-C2-C3-C4
22	BC	501	CLA	C1-C2-C3-C4
22	BD	404	CLA	C1-C2-C3-C4
22	AB	610	CLA	C10-C11-C12-C13
22	BB	605	CLA	CAA-CBA-CGA-O2A
30	BD	407	LMG	C2-C1-O1-C7
30	AB	622	LMG	O7-C8-C9-O8
34	AV	201	HEM	CAD-CBD-CGD-O2D
34	BE	101	HEM	CAA-CBA-CGA-O2A
30	BD	408	LMG	C11-C12-C13-C14
22	AC	509	CLA	C13-C15-C16-C17
30	BB	624	LMG	C39-C40-C41-C42
22	BC	510	CLA	C4-C3-C5-C6
22	BB	615	CLA	C8-C10-C11-C12
22	BC	512	CLA	C2-C3-C5-C6
29	BA	401	SQD	O47-C7-C8-C9
27	AD	410	DGD	O6D-C5D-C6D-O5D
22	AB	603	CLA	C11-C10-C8-C9
22	AB	610	CLA	C14-C13-C15-C16
22	AB	611	CLA	C11-C10-C8-C9
22	AB	613	CLA	C6-C7-C8-C9
22	AC	502	CLA	C11-C10-C8-C9
22	AC	504	CLA	C11-C10-C8-C9
22	AC	510	CLA	C11-C12-C13-C14
22	AD	402	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
22	BB	606	CLA	C11-C10-C8-C9
22	BB	606	CLA	C11-C12-C13-C14
22	BB	610	CLA	C11-C10-C8-C9
22	BB	614	CLA	C11-C10-C8-C9
22	BC	502	CLA	C11-C10-C8-C9
22	BC	504	CLA	C11-C10-C8-C9
22	BC	510	CLA	C11-C12-C13-C14
22	BD	402	CLA	C11-C10-C8-C9
34	AE	101	HEM	CAA-CBA-CGA-O2A
22	BA	403	CLA	C3A-C2A-CAA-CBA
29	AA	415	SQD	O47-C7-C8-C9
22	AB	609	CLA	CAD-CBD-CGD-O2D
22	AB	610	CLA	CAD-CBD-CGD-O2D
22	AB	616	CLA	CAD-CBD-CGD-O2D
22	AC	502	CLA	CAD-CBD-CGD-O2D
22	AC	503	CLA	CAD-CBD-CGD-O2D
22	AC	507	CLA	CAD-CBD-CGD-O2D
22	AC	510	CLA	CAD-CBD-CGD-O2D
22	AD	402	CLA	CAD-CBD-CGD-O2D
22	BB	612	CLA	CAD-CBD-CGD-O2D
22	BB	613	CLA	CAD-CBD-CGD-O2D
22	BB	619	CLA	CAD-CBD-CGD-O2D
22	BC	502	CLA	CAD-CBD-CGD-O2D
22	BC	503	CLA	CAD-CBD-CGD-O2D
22	BC	507	CLA	CAD-CBD-CGD-O2D
23	AA	405	PHO	CAD-CBD-CGD-O2D
23	BA	406	PHO	CAD-CBD-CGD-O2D
27	BC	517	DGD	CFB-CGB-CHB-CIB
22	BC	509	CLA	C13-C15-C16-C17
29	AA	415	SQD	O49-C7-O47-C45
22	AC	505	CLA	C8-C10-C11-C12
22	AB	609	CLA	C2-C1-O2A-CGA
22	AB	602	CLA	CAA-CBA-CGA-O2A
26	AC	515	BCR	C22-C23-C24-C25
29	BL	101	SQD	C24-C25-C26-C27
22	AB	601	CLA	C2-C3-C5-C6
22	AC	512	CLA	C2-C3-C5-C6
22	BB	604	CLA	C2-C3-C5-C6
22	AB	610	CLA	CAA-CBA-CGA-O2A
22	BB	613	CLA	CAA-CBA-CGA-O2A
22	BB	617	CLA	CAA-CBA-CGA-O2A
28	BC	521	LHG	O7-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
29	AD	409	SQD	C11-C12-C13-C14
30	AI	101	LMG	C15-C16-C17-C18
34	AV	201	HEM	CAD-CBD-CGD-O1D
34	BV	201	HEM	CAD-CBD-CGD-O1D
30	AD	408	LMG	C11-C12-C13-C14
22	BA	407	CLA	C15-C16-C17-C18
22	AB	614	CLA	CAA-CBA-CGA-O2A
28	AC	521	LHG	O7-C7-C8-C9
22	AB	615	CLA	O2A-C1-C2-C3
22	AC	513	CLA	O2A-C1-C2-C3
22	BB	618	CLA	O2A-C1-C2-C3
22	BC	513	CLA	O2A-C1-C2-C3
22	AB	603	CLA	C2A-CAA-CBA-CGA
22	BB	606	CLA	C2A-CAA-CBA-CGA
27	BB	602	DGD	O2G-C1B-C2B-C3B
22	AA	404	CLA	CHA-CBD-CGD-O1D
22	AA	404	CLA	CHA-CBD-CGD-O2D
22	AB	602	CLA	CHA-CBD-CGD-O2D
22	AC	509	CLA	CHA-CBD-CGD-O1D
22	AC	513	CLA	CHA-CBD-CGD-O1D
22	AC	513	CLA	CHA-CBD-CGD-O2D
22	BA	405	CLA	CHA-CBD-CGD-O1D
22	BA	405	CLA	CHA-CBD-CGD-O2D
22	BB	605	CLA	CHA-CBD-CGD-O2D
22	BC	509	CLA	CHA-CBD-CGD-O1D
22	BC	513	CLA	CHA-CBD-CGD-O1D
22	BC	513	CLA	CHA-CBD-CGD-O2D
22	BC	512	CLA	C8-C10-C11-C12
22	AC	510	CLA	C4-C3-C5-C6
27	AB	626	DGD	O2G-C1B-C2B-C3B
30	AA	413	LMG	O7-C10-C11-C12
27	AC	516	DGD	C2B-C3B-C4B-C5B
30	AE	102	LMG	C14-C15-C16-C17
22	AC	505	CLA	CAA-CBA-CGA-O2A
29	BA	413	SQD	O6-C44-C45-O47
29	BB	601	SQD	C24-C25-C26-C27
22	BC	505	CLA	CAA-CBA-CGA-O2A
30	BA	414	LMG	O7-C10-C11-C12
22	AC	512	CLA	C8-C10-C11-C12
23	AA	405	PHO	C8-C10-C11-C12
27	AA	410	DGD	O6E-C5E-C6E-O5E
29	BA	401	SQD	C8-C7-O47-C45

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
32	AB	624	LMT	C3-C4-C5-C6
22	AB	604	CLA	C11-C10-C8-C7
22	AB	606	CLA	C11-C10-C8-C7
22	AC	501	CLA	C6-C7-C8-C10
22	AC	503	CLA	C12-C13-C15-C16
22	BB	609	CLA	C11-C10-C8-C7
22	BB	611	CLA	C11-C10-C8-C7
23	AA	405	PHO	C6-C7-C8-C10
23	BA	406	PHO	C6-C7-C8-C10
30	AM	101	LMG	C32-C33-C34-C35
27	BC	518	DGD	O1G-C1A-C2A-C3A
30	AC	519	LMG	O8-C28-C29-C30
22	AB	603	CLA	C11-C12-C13-C14
22	AB	605	CLA	C11-C12-C13-C14
22	AB	606	CLA	C11-C10-C8-C9
22	AB	607	CLA	C11-C10-C8-C9
22	AC	508	CLA	C14-C13-C15-C16
22	BB	608	CLA	C11-C12-C13-C14
22	BB	609	CLA	C11-C10-C8-C9
22	BC	508	CLA	C14-C13-C15-C16
23	AA	405	PHO	C14-C13-C15-C16
23	BA	406	PHO	C14-C13-C15-C16
27	AC	518	DGD	O1G-C1A-C2A-C3A
30	AA	413	LMG	C35-C36-C37-C38
29	AA	415	SQD	C8-C7-O47-C45
29	AA	415	SQD	C32-C33-C34-C35
30	BC	519	LMG	O8-C28-C29-C30
32	BB	625	LMT	C3-C4-C5-C6
30	AC	519	LMG	O10-C28-C29-C30
22	AA	402	CLA	C1A-C2A-CAA-CBA
22	AB	609	CLA	C1A-C2A-CAA-CBA
22	BA	403	CLA	C1A-C2A-CAA-CBA
30	BM	102	LMG	C16-C17-C18-C19
22	BB	613	CLA	CAA-CBA-CGA-O1A
22	BB	617	CLA	CAA-CBA-CGA-O1A
27	BC	516	DGD	C2B-C3B-C4B-C5B
30	AM	101	LMG	C16-C17-C18-C19
30	BE	102	LMG	C14-C15-C16-C17
22	AD	404	CLA	C8-C10-C11-C12
22	AB	610	CLA	CAA-CBA-CGA-O1A
22	AB	614	CLA	CAA-CBA-CGA-O1A
27	AC	517	DGD	C8A-C9A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	BA	414	LMG	C35-C36-C37-C38
29	BA	401	SQD	C15-C16-C17-C18
22	AB	602	CLA	CAA-CBA-CGA-O1A
28	BC	521	LHG	O9-C7-C8-C9
29	BA	401	SQD	O49-C7-C8-C9
22	AB	612	CLA	C8-C10-C11-C12
22	AC	506	CLA	C8-C10-C11-C12
30	AA	413	LMG	C8-C9-O8-C28
27	AD	410	DGD	C8B-C9B-CAB-CBB
30	AB	622	LMG	C32-C33-C34-C35
22	BB	605	CLA	CAA-CBA-CGA-O1A
27	BB	602	DGD	O1B-C1B-C2B-C3B
29	AA	415	SQD	O49-C7-C8-C9
34	AV	201	HEM	CAA-CBA-CGA-O2A
30	BI	101	LMG	C34-C35-C36-C37
29	BD	409	SQD	C11-C12-C13-C14
27	AB	626	DGD	O1B-C1B-C2B-C3B
22	AB	614	CLA	C10-C11-C12-C13
27	BC	517	DGD	C8A-C9A-CAA-CBA
27	BC	518	DGD	C7A-C8A-C9A-CAA
34	BV	201	HEM	CAA-CBA-CGA-O2A
30	AA	413	LMG	C10-C11-C12-C13
30	BC	519	LMG	O10-C28-C29-C30
22	BC	505	CLA	CAA-CBA-CGA-O1A
34	BV	201	HEM	CAA-CBA-CGA-O1A
30	BI	101	LMG	O7-C10-C11-C12
27	BD	410	DGD	CCA-CDA-CEA-CFA
28	AC	521	LHG	O9-C7-C8-C9
30	BM	102	LMG	C32-C33-C34-C35
22	AA	404	CLA	CAD-CBD-CGD-O1D
22	AB	605	CLA	CAD-CBD-CGD-O1D
22	AC	501	CLA	CAD-CBD-CGD-O1D
22	AC	506	CLA	CAD-CBD-CGD-O1D
22	AC	513	CLA	CAD-CBD-CGD-O1D
22	BA	405	CLA	CAD-CBD-CGD-O1D
22	BB	608	CLA	CAD-CBD-CGD-O1D
22	BC	501	CLA	CAD-CBD-CGD-O1D
22	BC	503	CLA	CAD-CBD-CGD-O1D
22	BC	506	CLA	CAD-CBD-CGD-O1D
22	BC	510	CLA	CAD-CBD-CGD-O1D
22	BC	513	CLA	CAD-CBD-CGD-O1D
29	BA	401	SQD	C32-C33-C34-C35

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Mol	Chain	Res	Type	Atoms
30	AI	101	LMG	O7-C10-C11-C12
22	BC	505	CLA	C8-C10-C11-C12
22	AB	614	CLA	C11-C10-C8-C9
22	AC	501	CLA	C6-C7-C8-C9
22	AC	501	CLA	C11-C12-C13-C14
22	BB	610	CLA	C6-C7-C8-C9
22	BB	616	CLA	C6-C7-C8-C9
22	BB	617	CLA	C11-C10-C8-C9
22	BC	501	CLA	C6-C7-C8-C9
22	BC	506	CLA	C11-C10-C8-C9
27	AD	410	DGD	CCA-CDA-CEA-CFA
22	AA	406	CLA	C15-C16-C17-C18
30	BA	414	LMG	O9-C10-C11-C12
30	BE	102	LMG	C12-C13-C14-C15
27	AC	516	DGD	O2G-C1B-C2B-C3B
29	BD	409	SQD	O47-C7-C8-C9
22	BC	506	CLA	C8-C10-C11-C12
22	AC	512	CLA	C15-C16-C17-C18
30	BB	624	LMG	C32-C33-C34-C35
22	AA	406	CLA	CAA-CBA-CGA-O2A
22	AD	402	CLA	CAA-CBA-CGA-O2A
22	BA	407	CLA	CAA-CBA-CGA-O2A
22	BD	402	CLA	CAA-CBA-CGA-O2A
27	BC	516	DGD	O2G-C1B-C2B-C3B
27	BC	518	DGD	O2G-C1B-C2B-C3B
29	AD	409	SQD	O47-C7-C8-C9
30	BA	414	LMG	C10-C11-C12-C13
22	AC	505	CLA	CAA-CBA-CGA-O1A
27	AC	518	DGD	O1A-C1A-C2A-C3A
30	AA	413	LMG	O9-C10-C11-C12
22	AB	608	CLA	C11-C10-C8-C7
22	AC	508	CLA	C12-C13-C15-C16
22	BB	607	CLA	C11-C10-C8-C7
22	BB	608	CLA	C11-C12-C13-C15
22	BB	610	CLA	C6-C7-C8-C10
22	BC	501	CLA	C6-C7-C8-C10
22	BC	502	CLA	C11-C12-C13-C15
22	BC	503	CLA	C12-C13-C15-C16
22	BC	508	CLA	C12-C13-C15-C16
34	AV	201	HEM	CAA-CBA-CGA-O1A
22	AD	404	CLA	CAA-CBA-CGA-O2A
22	BB	611	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
22	BD	404	CLA	CAA-CBA-CGA-O2A
27	AC	518	DGD	O2G-C1B-C2B-C3B
27	BC	516	DGD	O1B-C1B-C2B-C3B
30	AE	102	LMG	C12-C13-C14-C15
30	AI	101	LMG	O6-C1-O1-C7
30	BI	101	LMG	O6-C1-O1-C7
22	AD	402	CLA	CAA-CBA-CGA-O1A
27	BC	518	DGD	O1A-C1A-C2A-C3A
29	AD	409	SQD	O49-C7-C8-C9
24	BD	405	PL9	C29-C31-C32-C33
30	AB	622	LMG	C39-C40-C41-C42
30	AC	520	LMG	C32-C33-C34-C35
22	AC	502	CLA	C13-C15-C16-C17
22	BB	608	CLA	C13-C15-C16-C17
22	BC	502	CLA	C13-C15-C16-C17
22	BC	512	CLA	C15-C16-C17-C18
22	AB	608	CLA	CAA-CBA-CGA-O2A
29	AA	415	SQD	C11-C12-C13-C14
30	AB	622	LMG	C40-C41-C42-C43
22	AA	406	CLA	CAA-CBA-CGA-O1A
29	BD	409	SQD	O49-C7-C8-C9
27	AC	517	DGD	O2G-C1B-C2B-C3B
30	AA	416	LMG	O8-C28-C29-C30
30	AB	623	LMG	O8-C28-C29-C30

There are no ring outliers.

165 monomers are involved in 627 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AB	609	CLA	6	0
22	BA	405	CLA	3	0
32	AI	102	LMT	4	0
27	AC	518	DGD	8	0
34	BE	101	HEM	6	0
22	AA	404	CLA	2	0
27	BB	602	DGD	3	0
22	AB	611	CLA	4	0
22	AB	602	CLA	5	0
27	BC	517	DGD	10	0
22	BB	606	CLA	7	0
30	AM	101	LMG	4	0
29	BL	101	SQD	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
32	BB	603	LMT	3	0
22	BB	607	CLA	5	0
22	BD	404	CLA	4	0
24	AD	405	PL9	9	0
26	AB	618	BCR	5	0
26	AT	102	BCR	8	0
22	BB	615	CLA	5	0
28	AA	411	LHG	3	0
26	AC	514	BCR	9	0
26	BB	620	BCR	3	0
34	BV	201	HEM	3	0
32	AT	101	LMT	3	0
22	BC	511	CLA	11	0
22	AC	501	CLA	3	0
22	AA	402	CLA	7	0
22	BB	616	CLA	3	0
26	BB	622	BCR	2	0
22	BB	611	CLA	9	0
22	BA	403	CLA	7	0
30	BC	519	LMG	3	0
26	BJ	102	BCR	5	0
30	AB	623	LMG	2	0
29	AA	412	SQD	5	0
32	BI	102	LMT	3	0
27	BC	516	DGD	3	0
22	BB	605	CLA	6	0
30	BD	407	LMG	2	0
22	AB	604	CLA	5	0
22	AD	402	CLA	7	0
33	BD	401	BCT	1	0
26	BC	515	BCR	7	0
26	BX	101	BCR	6	0
28	BA	412	LHG	4	0
22	AB	615	CLA	7	0
22	BB	618	CLA	6	0
22	AC	506	CLA	3	0
26	BZ	101	BCR	5	0
26	AA	409	BCR	6	0
30	BA	414	LMG	2	0
22	BA	404	CLA	6	0
34	AV	201	HEM	3	0
22	AB	612	CLA	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
30	BB	623	LMG	1	0
22	AB	603	CLA	7	0
22	BC	505	CLA	10	0
22	AD	404	CLA	4	0
29	BA	413	SQD	4	0
22	AC	507	CLA	4	0
22	AB	605	CLA	5	0
23	AA	405	PHO	5	0
30	BI	101	LMG	3	0
28	BC	521	LHG	4	0
22	AC	503	CLA	4	0
22	BC	503	CLA	5	0
30	BB	624	LMG	1	0
23	AD	403	PHO	2	0
23	BD	403	PHO	5	0
27	AC	517	DGD	8	0
22	AA	406	CLA	3	0
29	BA	401	SQD	2	0
27	AC	516	DGD	3	0
26	AJ	102	BCR	5	0
22	BC	502	CLA	4	0
30	AA	413	LMG	1	0
30	AA	416	LMG	4	0
30	AE	102	LMG	4	0
30	AI	101	LMG	3	0
22	BC	506	CLA	3	0
32	AM	102	LMT	1	0
22	AB	616	CLA	4	0
22	BB	610	CLA	14	0
27	AH	102	DGD	1	0
33	AD	401	BCT	1	0
24	BD	405	PL9	8	0
22	BB	617	CLA	2	0
30	AB	621	LMG	1	0
22	BC	513	CLA	4	0
32	AD	411	LMT	2	0
32	BD	411	LMT	1	0
26	BA	410	BCR	3	0
30	BC	520	LMG	5	0
26	AB	620	BCR	2	0
22	BD	402	CLA	8	0
27	BH	101	DGD	1	0

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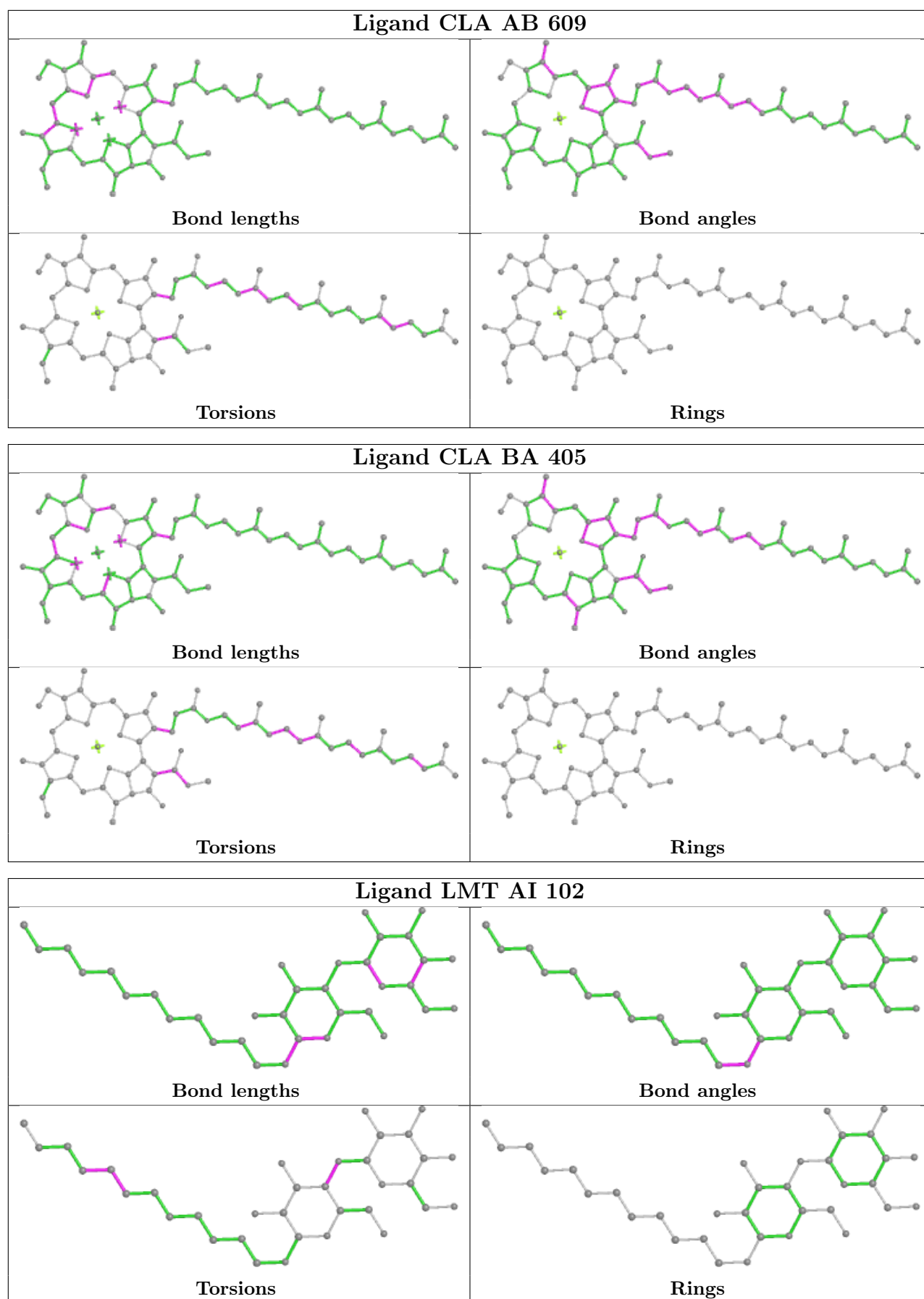
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22	AC	510	CLA	4	0
30	BM	102	LMG	4	0
27	BC	518	DGD	8	0
34	AE	101	HEM	5	0
22	AC	504	CLA	5	0
26	AH	101	BCR	5	0
22	AB	608	CLA	9	0
22	BA	407	CLA	3	0
22	AC	513	CLA	3	0
29	BD	409	SQD	2	0
22	BB	613	CLA	3	0
30	AD	408	LMG	7	0
26	AC	515	BCR	6	0
23	BA	406	PHO	5	0
22	AB	601	CLA	2	0
29	AD	409	SQD	2	0
32	BM	101	LMT	1	0
30	AC	520	LMG	4	0
30	AC	519	LMG	2	0
26	BC	514	BCR	10	0
22	AC	512	CLA	9	0
26	AB	617	BCR	3	0
22	BC	508	CLA	7	0
22	AB	613	CLA	3	0
29	BB	601	SQD	2	0
22	AA	403	CLA	7	0
27	AB	626	DGD	3	0
24	AA	407	PL9	5	0
22	BC	501	CLA	3	0
32	AB	624	LMT	1	0
22	BB	608	CLA	5	0
30	AB	622	LMG	1	0
22	AC	511	CLA	9	0
26	BD	406	BCR	3	0
29	AF	101	SQD	2	0
22	AC	509	CLA	2	0
30	BE	102	LMG	4	0
24	BA	408	PL9	6	0
22	AC	508	CLA	8	0
22	BC	507	CLA	4	0
22	BC	512	CLA	7	0
22	AB	614	CLA	1	0

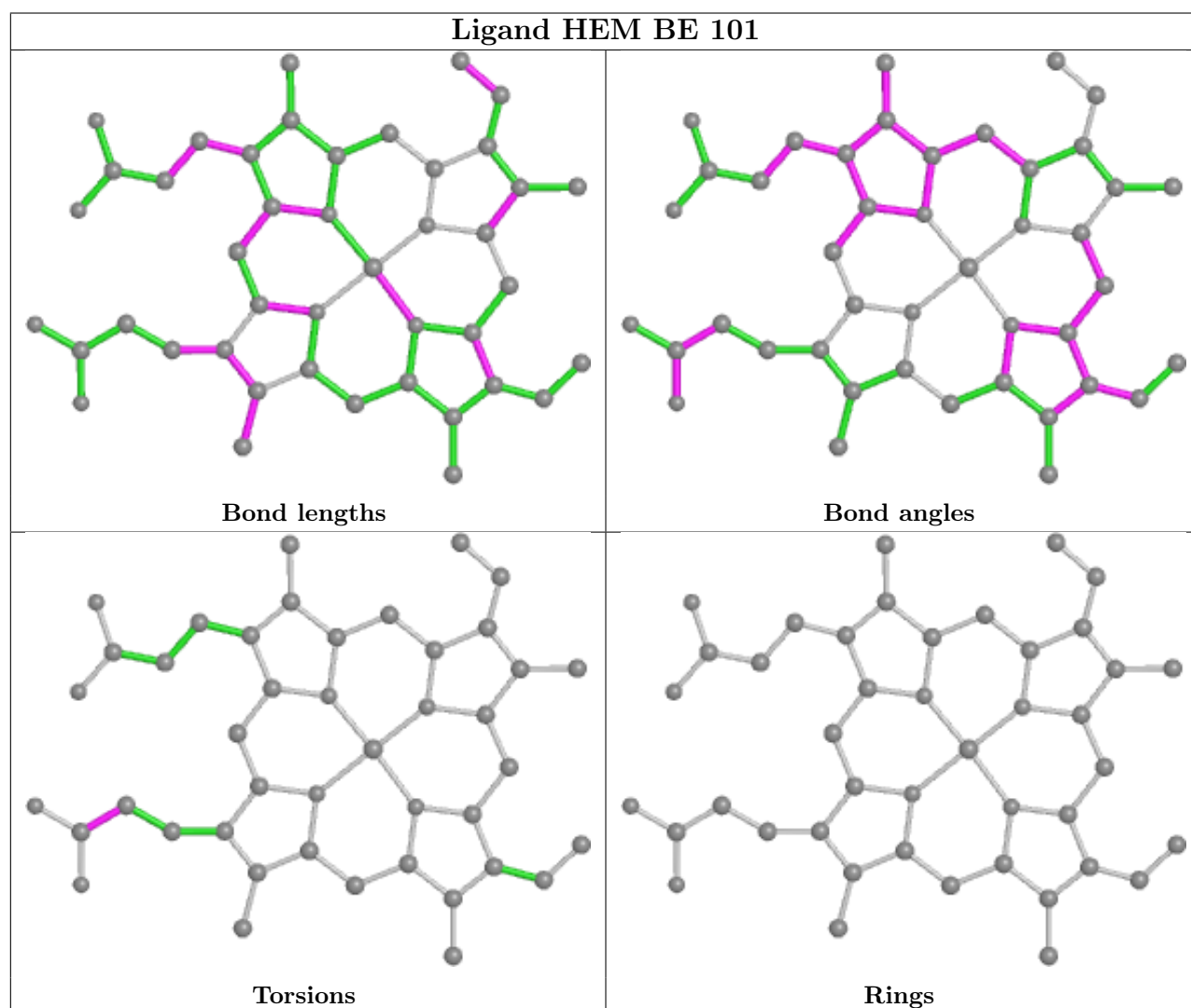
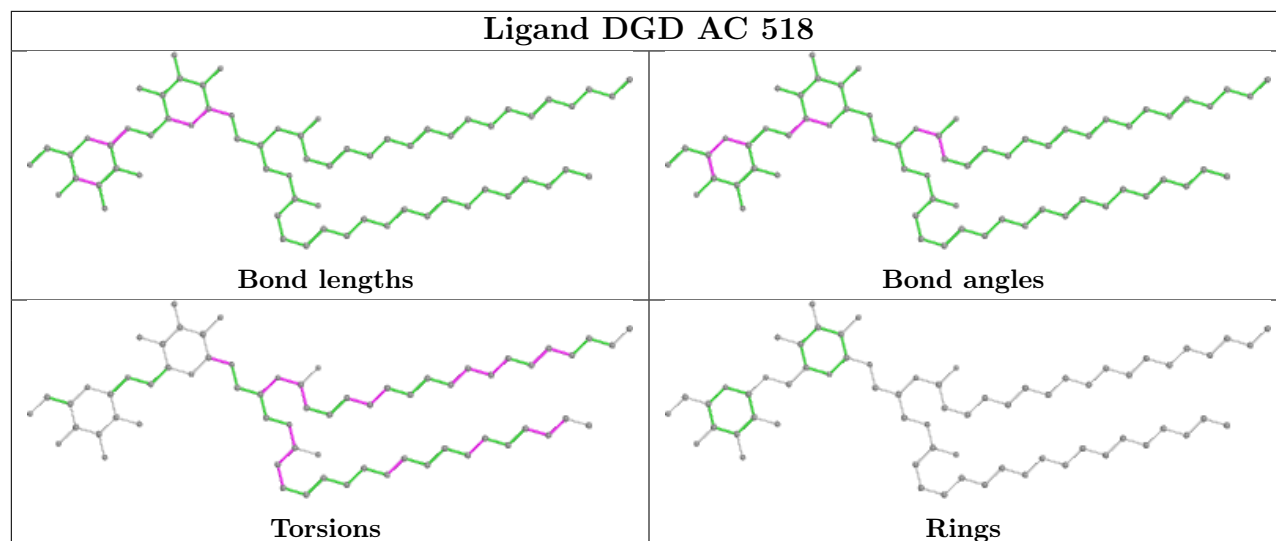
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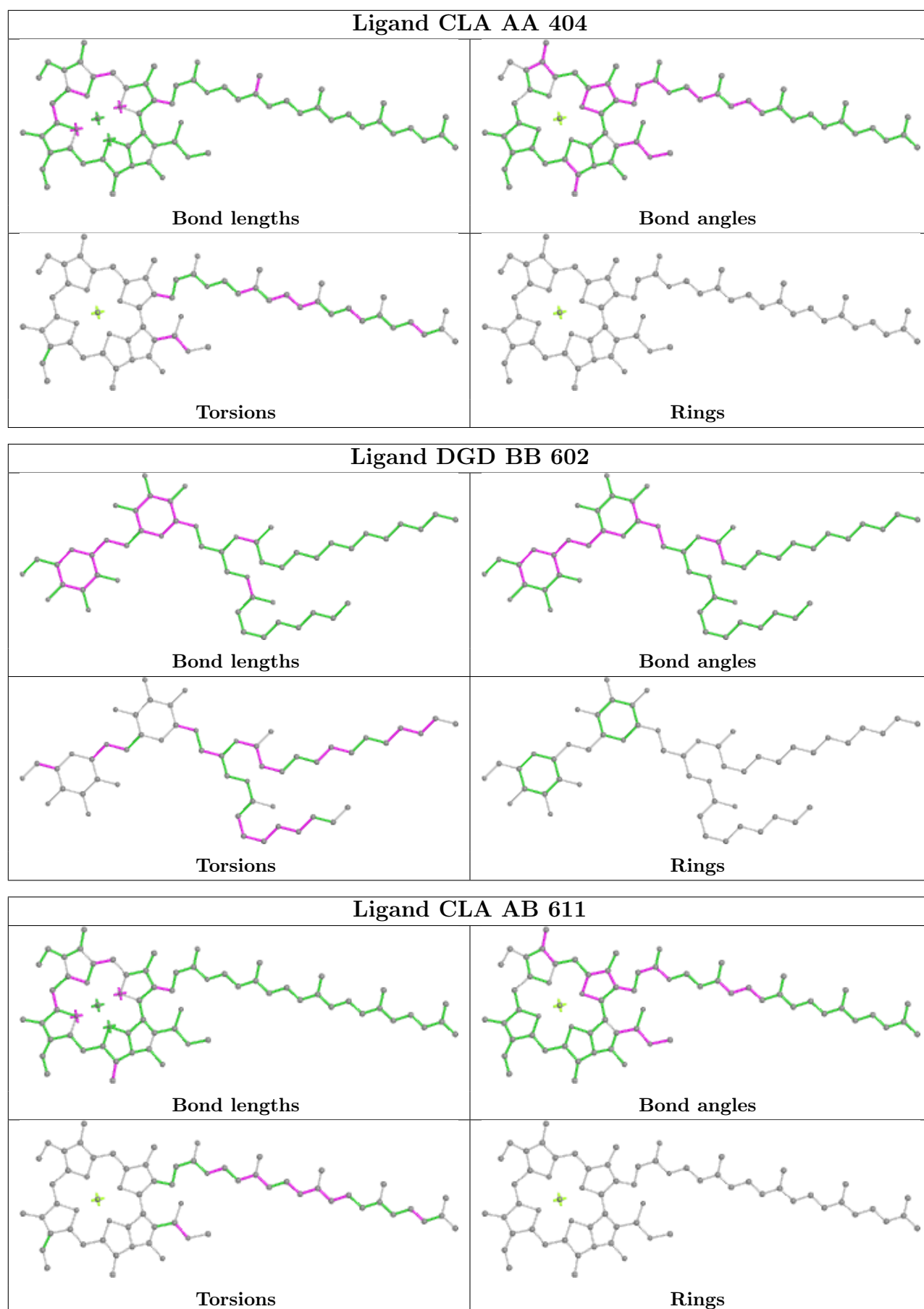
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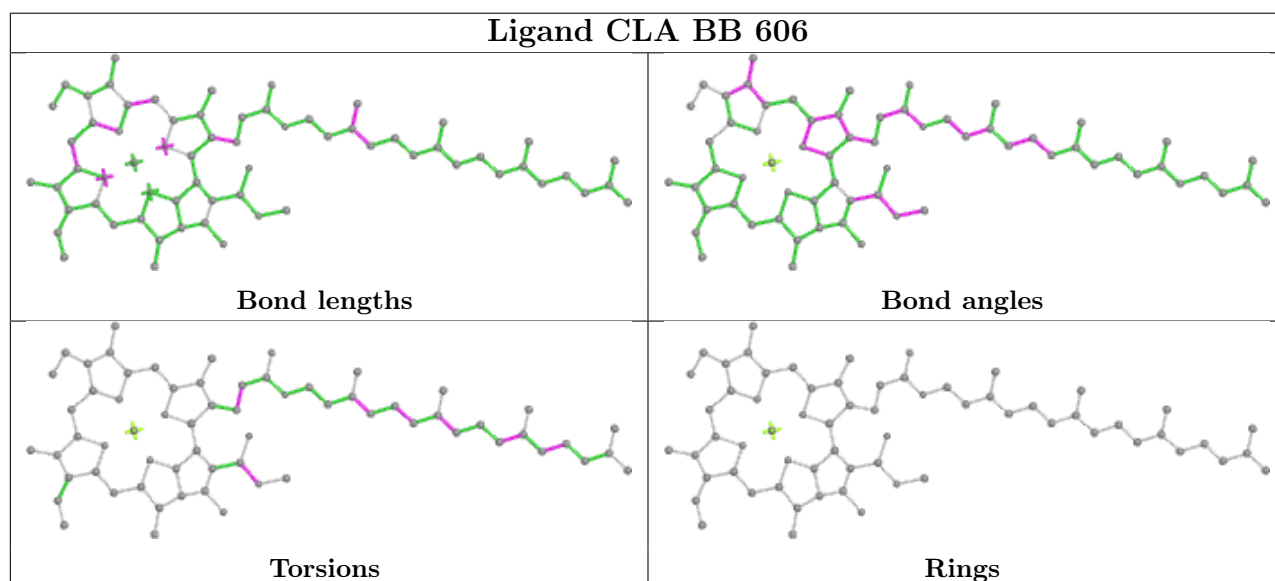
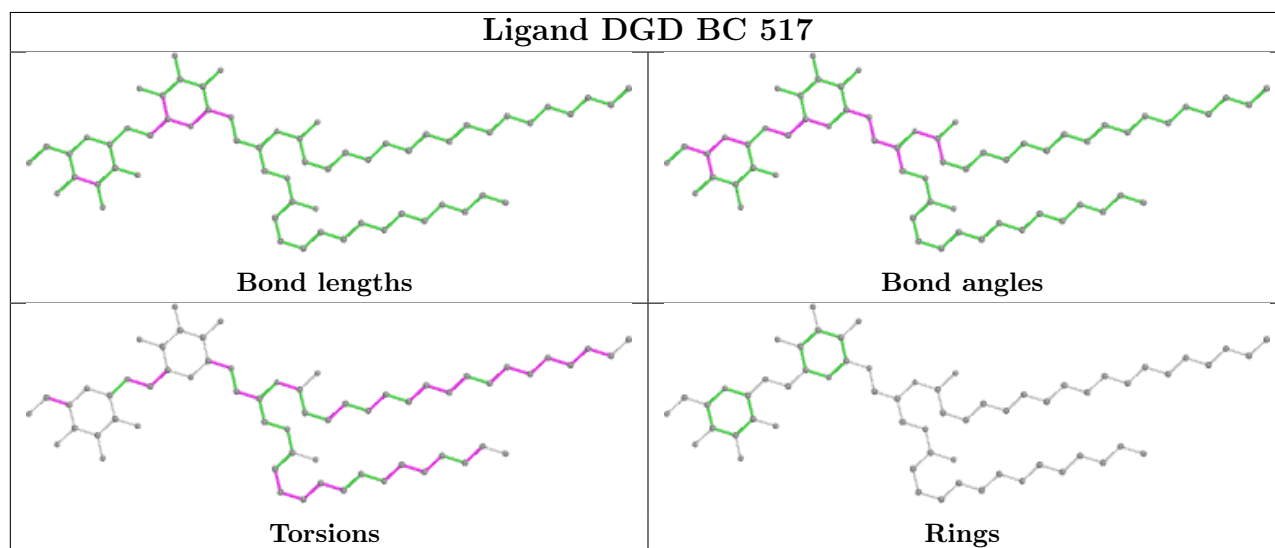
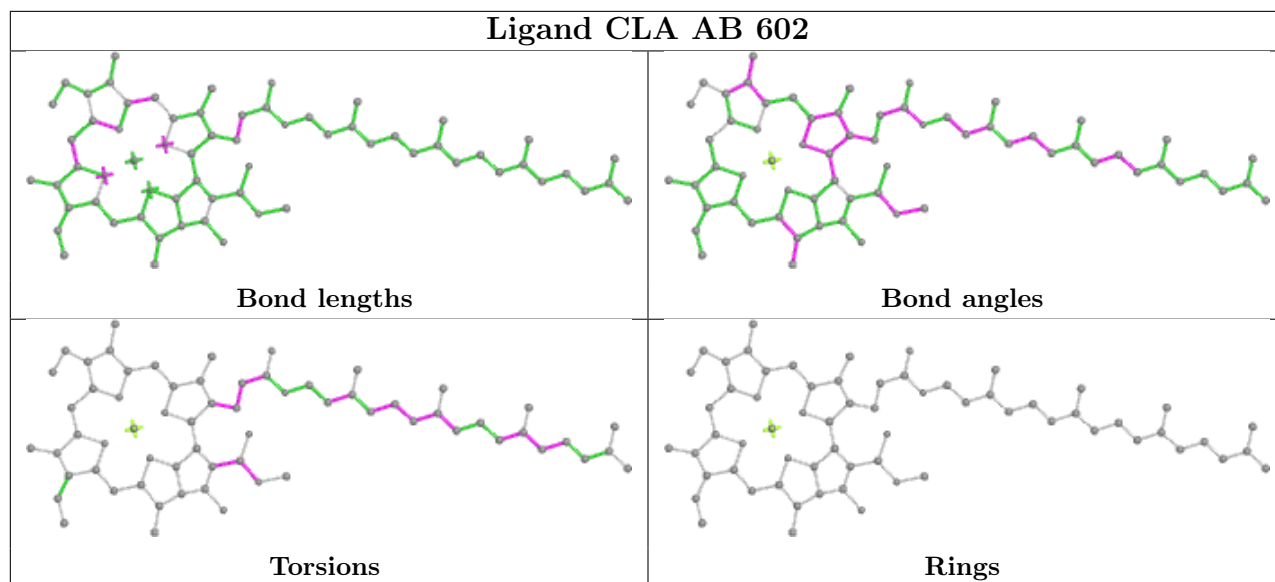
Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	BB	604	CLA	1	0
26	BK	102	BCR	13	0
22	AC	502	CLA	4	0
26	AD	406	BCR	3	0
32	BB	626	LMT	2	0
22	BB	612	CLA	7	0
30	BD	408	LMG	8	0
32	AB	627	LMT	3	0
22	AB	606	CLA	5	0
29	AA	415	SQD	5	0
22	BB	619	CLA	6	0
22	BC	509	CLA	2	0
30	AD	407	LMG	2	0
22	BB	614	CLA	7	0
22	AB	610	CLA	3	0
22	BB	609	CLA	6	0
22	BC	510	CLA	3	0
32	AB	625	LMT	2	0
22	AB	607	CLA	15	0
29	BF	101	SQD	1	0
22	BC	504	CLA	6	0
26	AZ	101	BCR	5	0
32	BT	101	LMT	3	0
28	AC	521	LHG	5	0
26	AK	102	BCR	13	0
22	AC	505	CLA	10	0

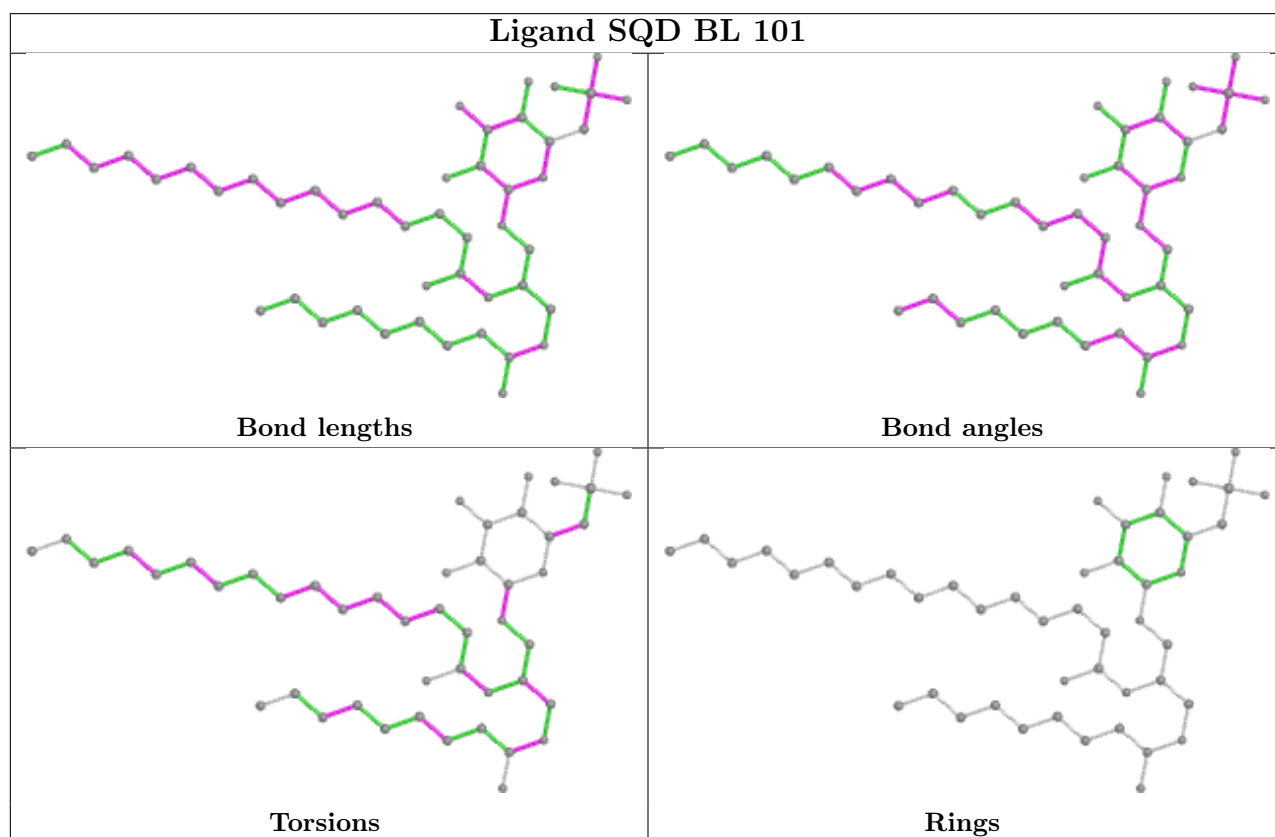
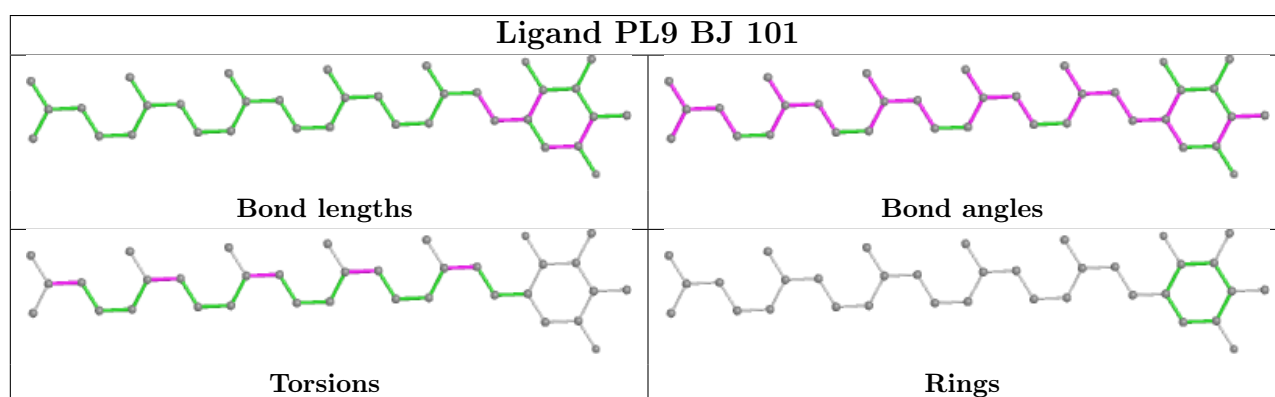
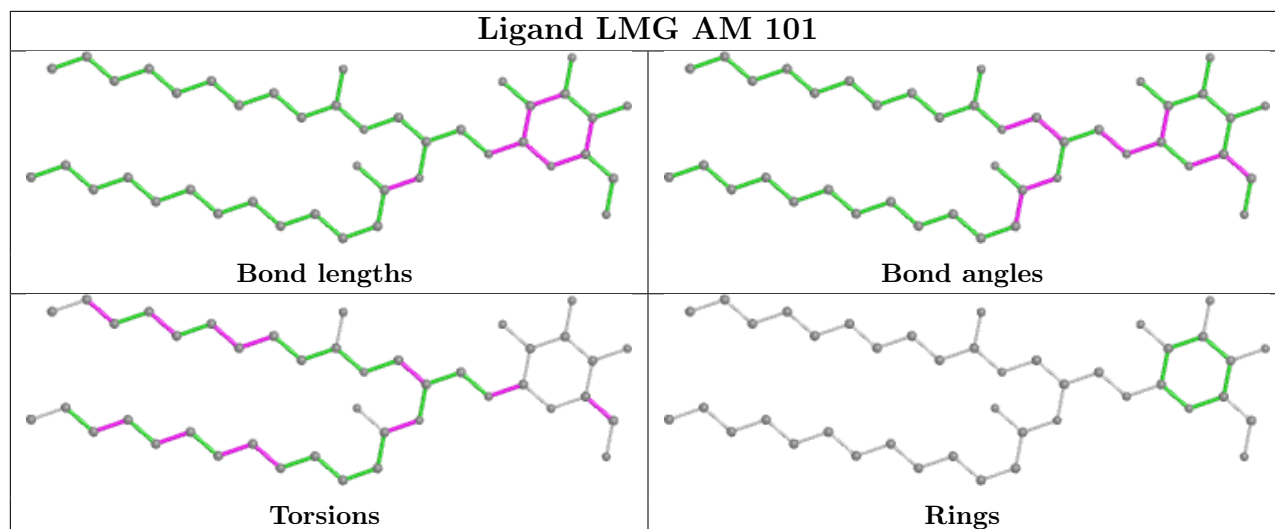
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



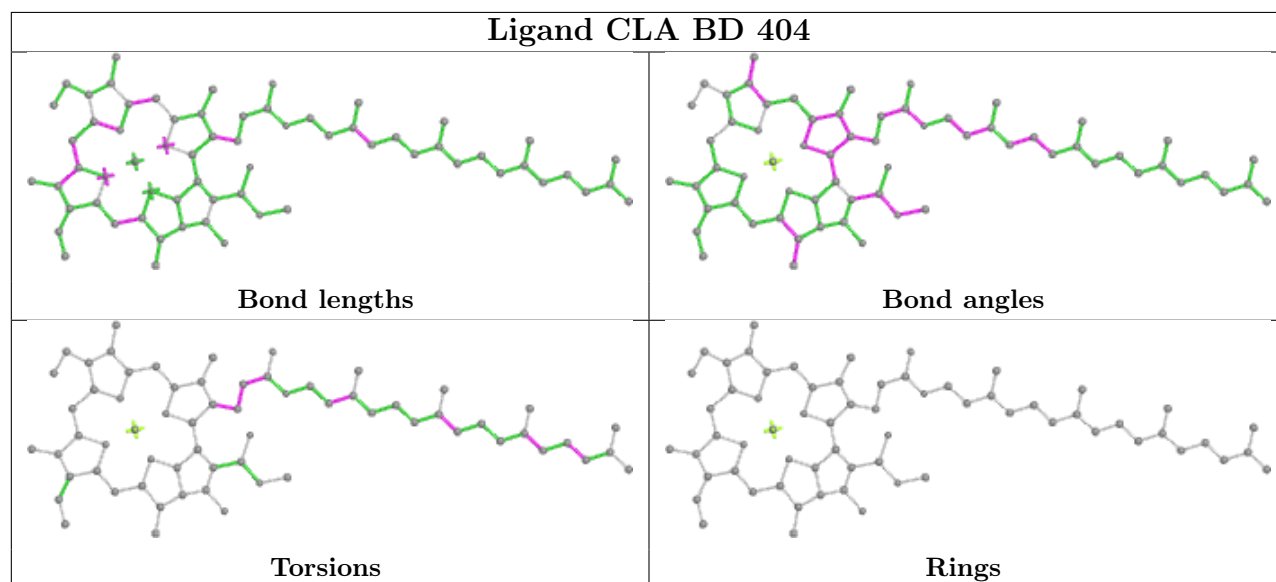
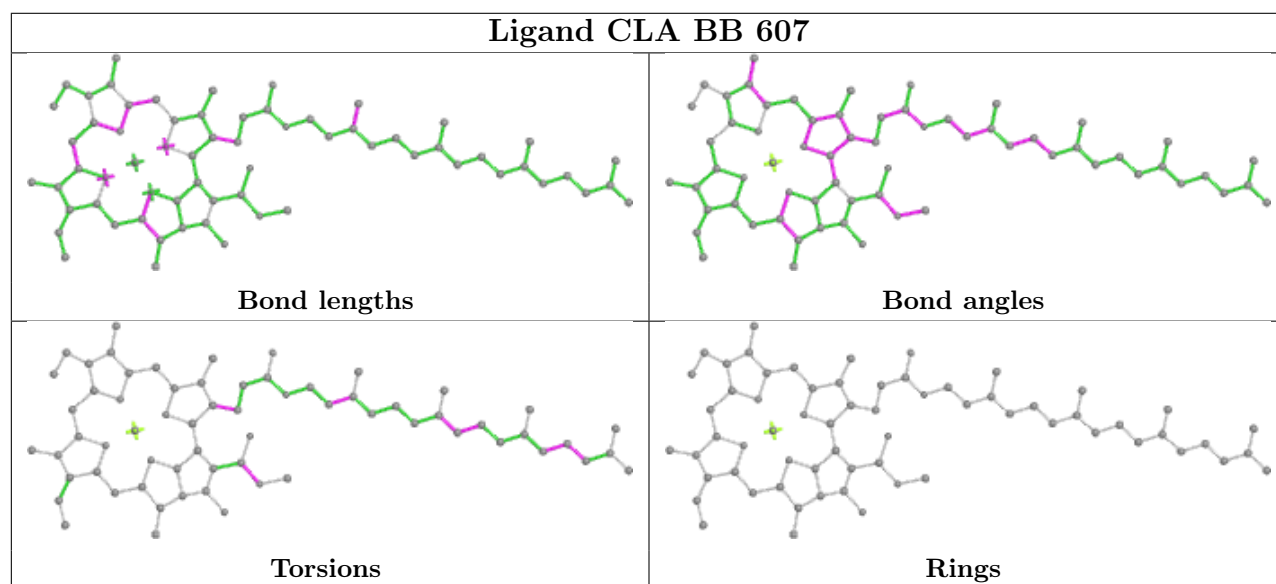
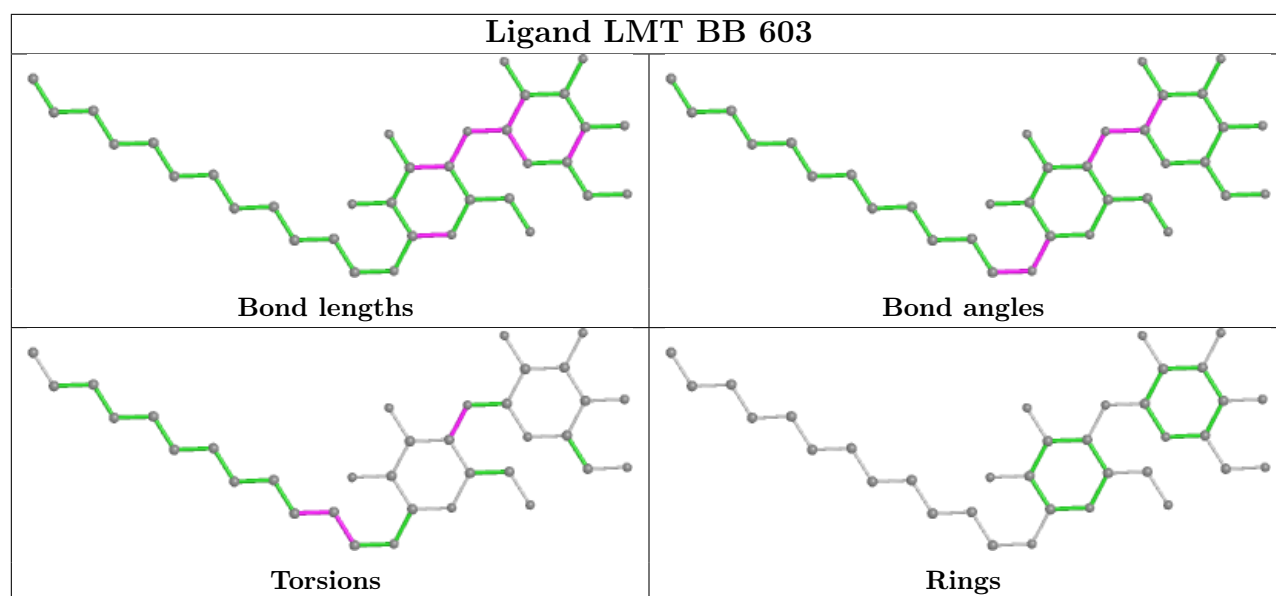


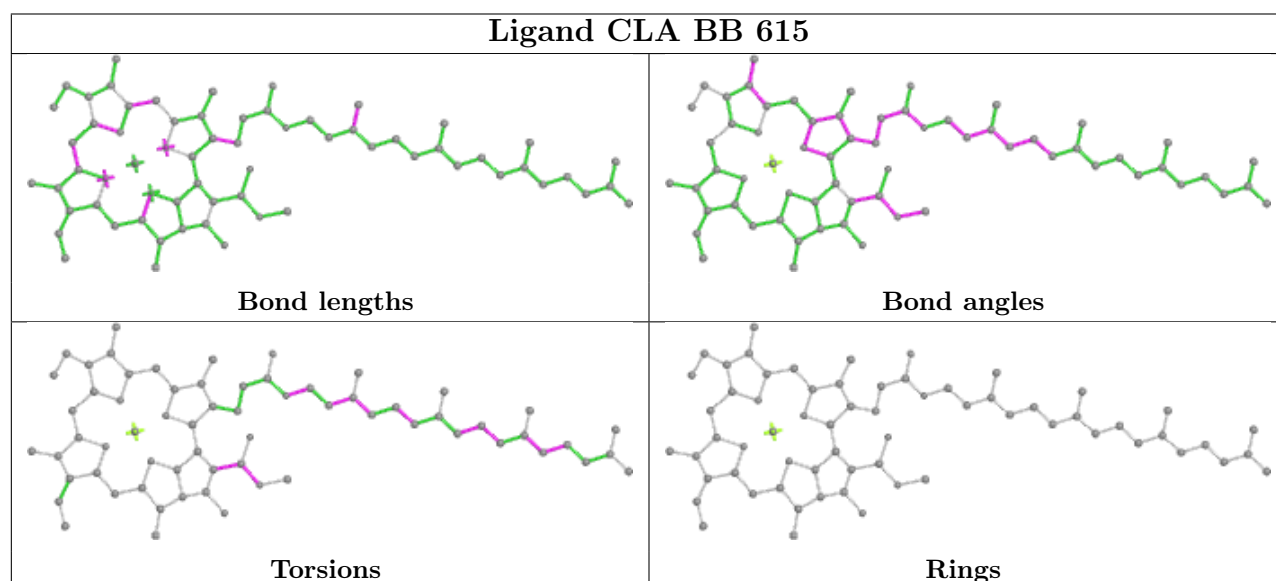
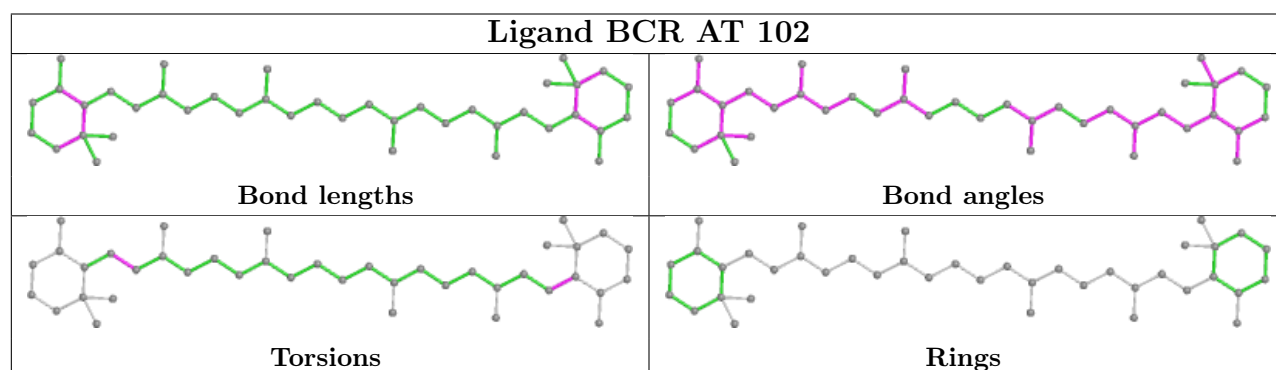
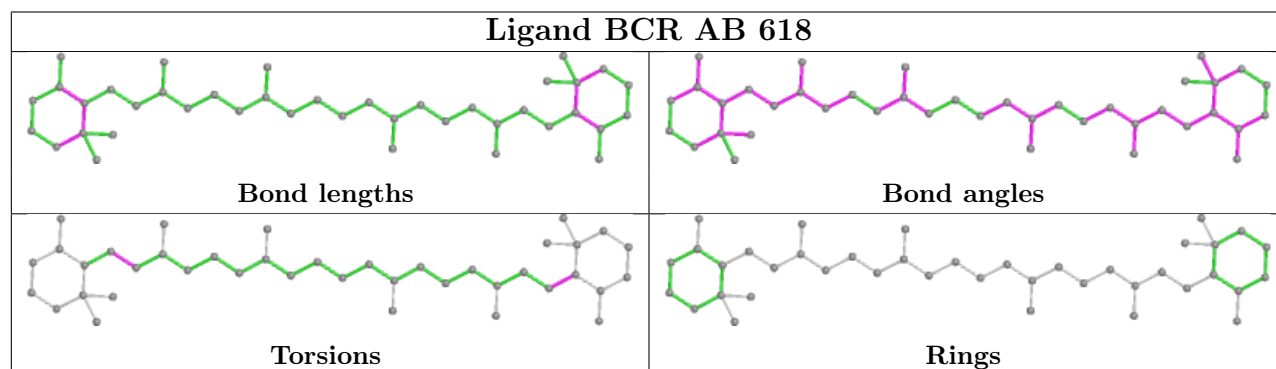
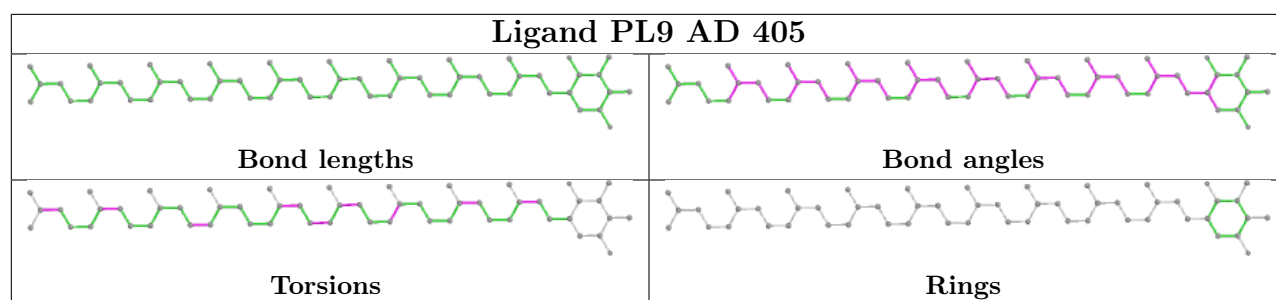


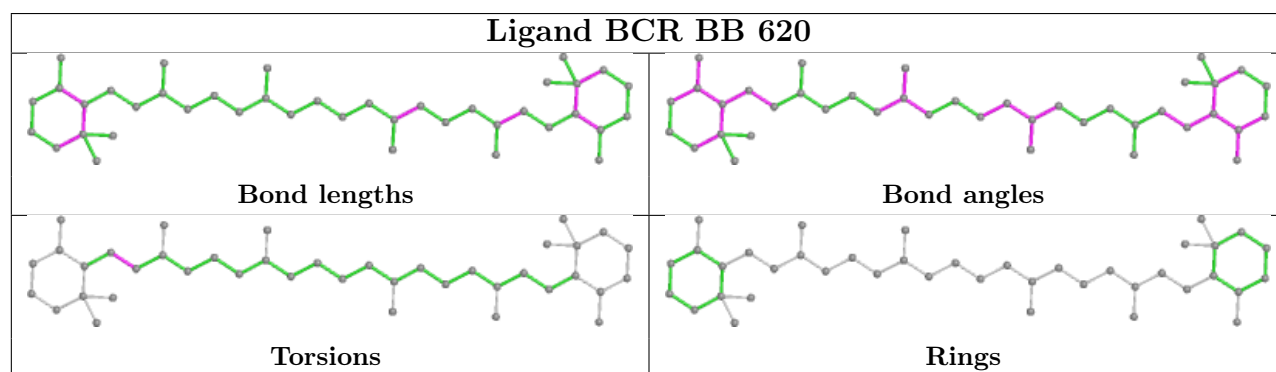
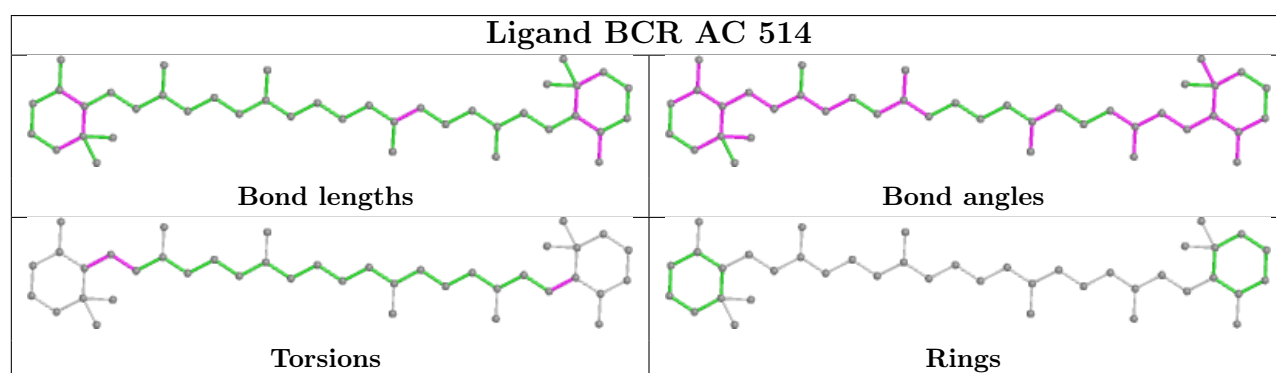
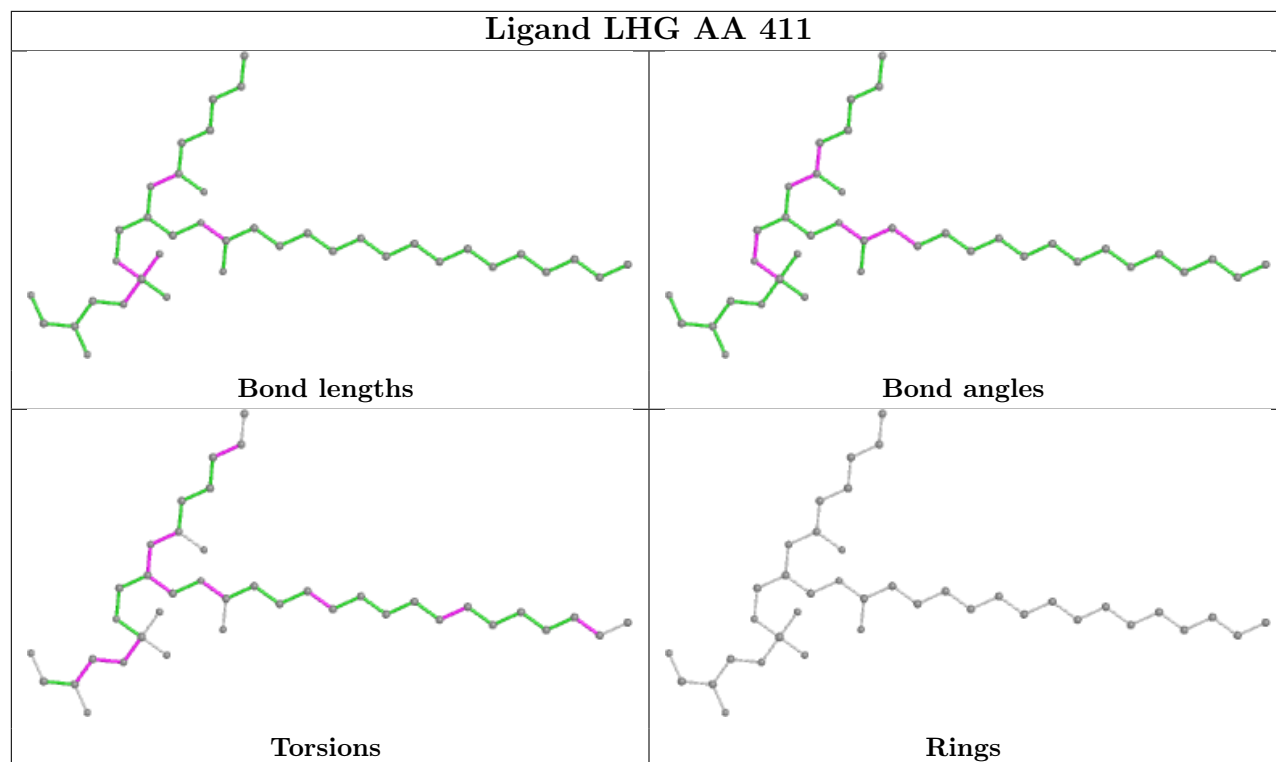


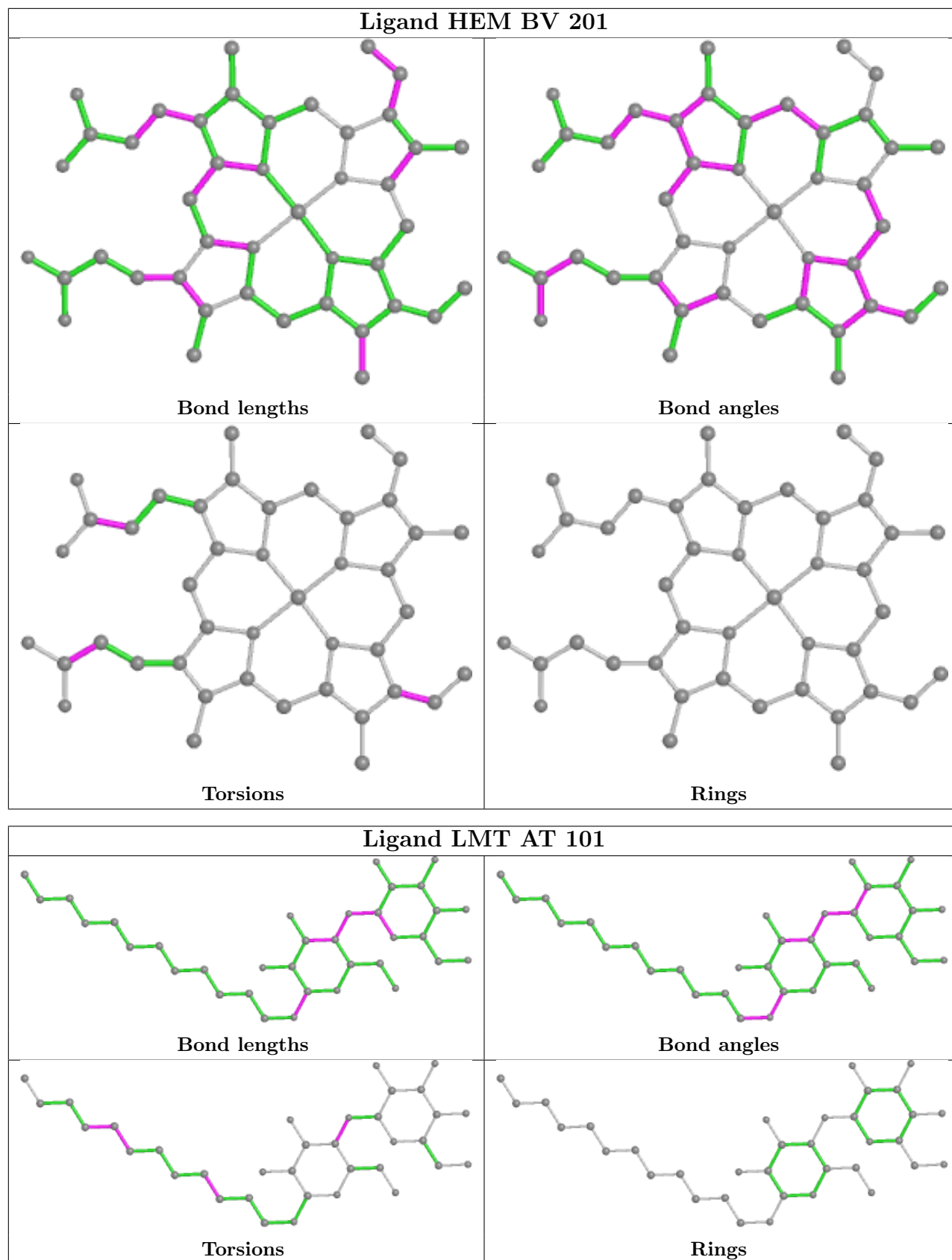


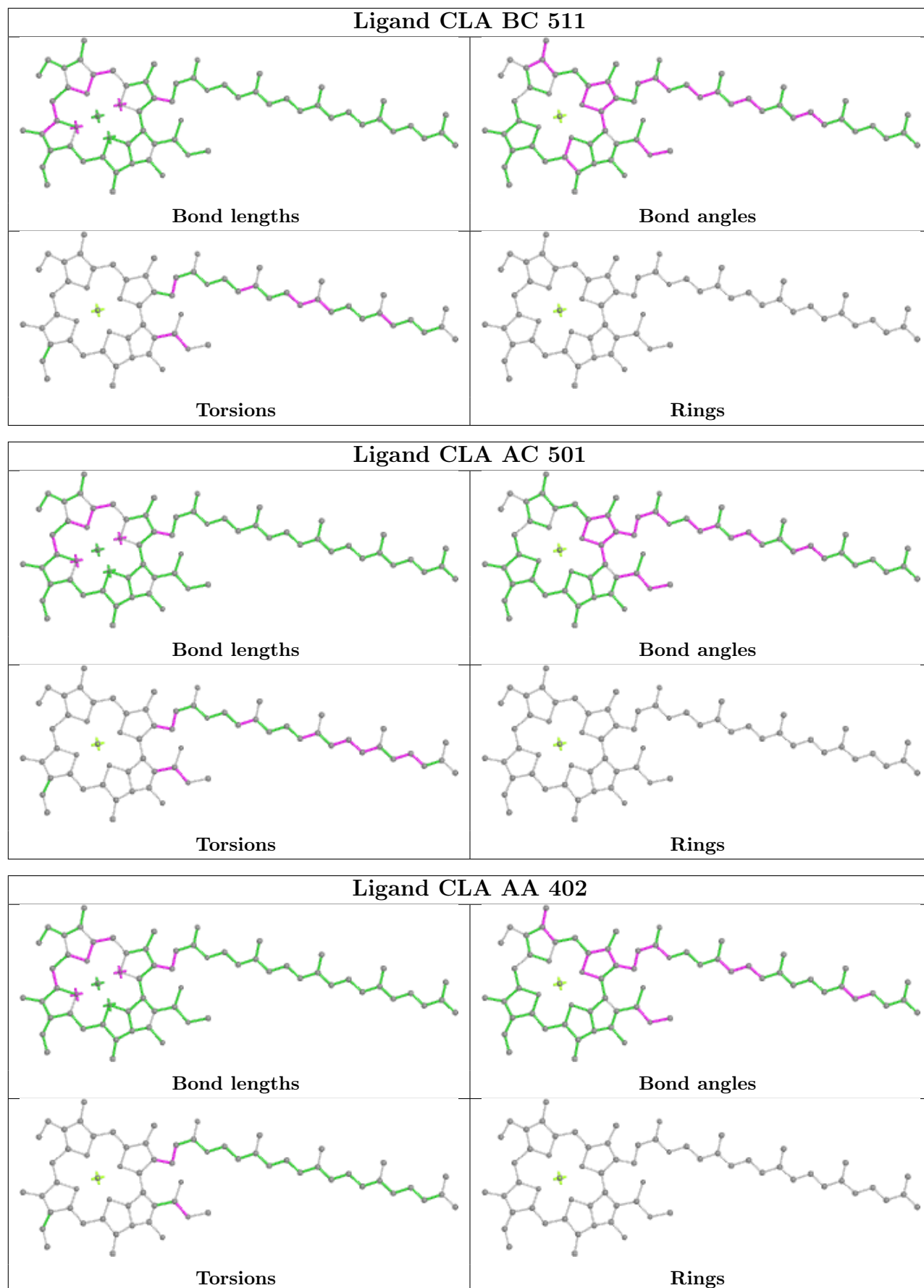


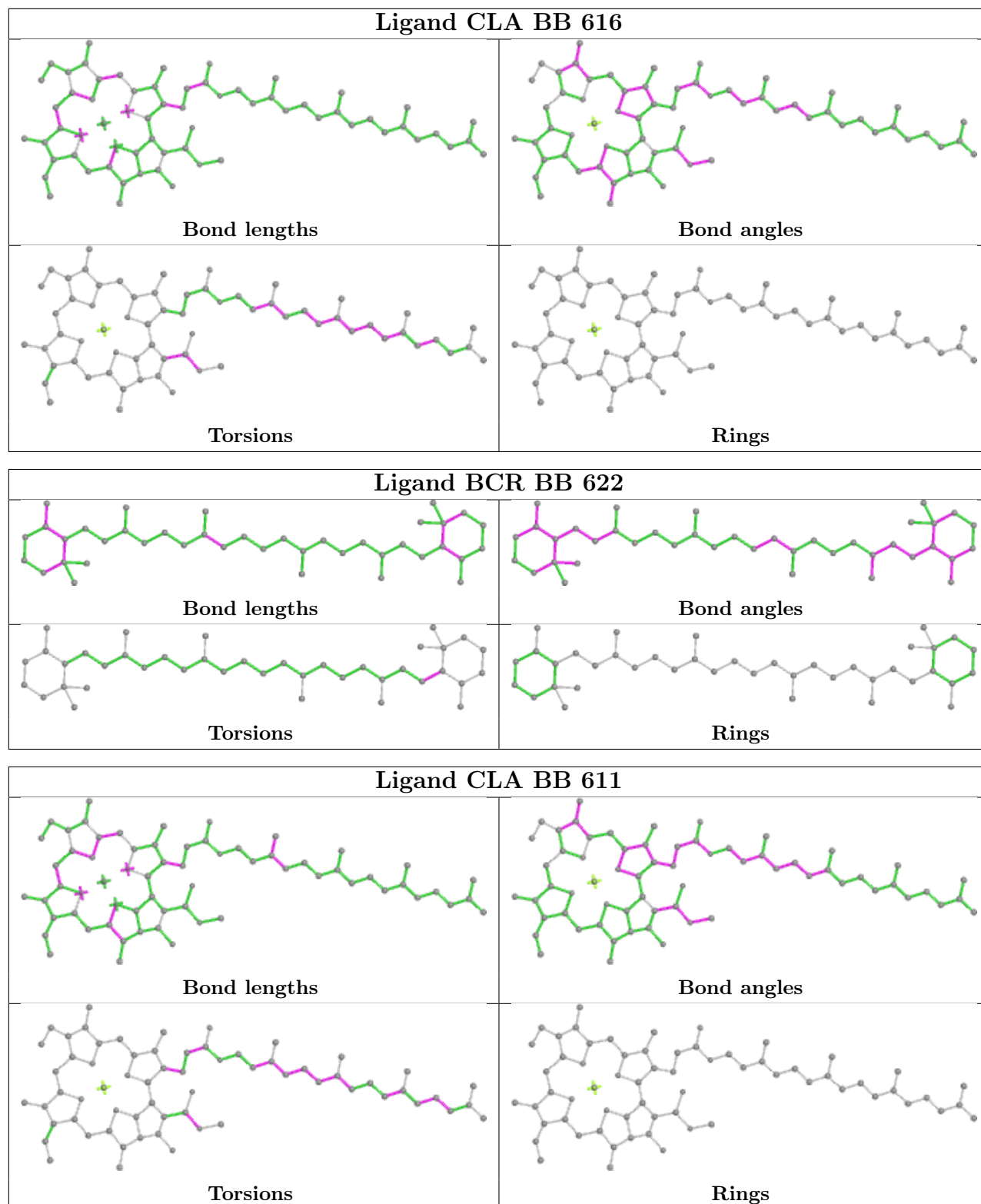


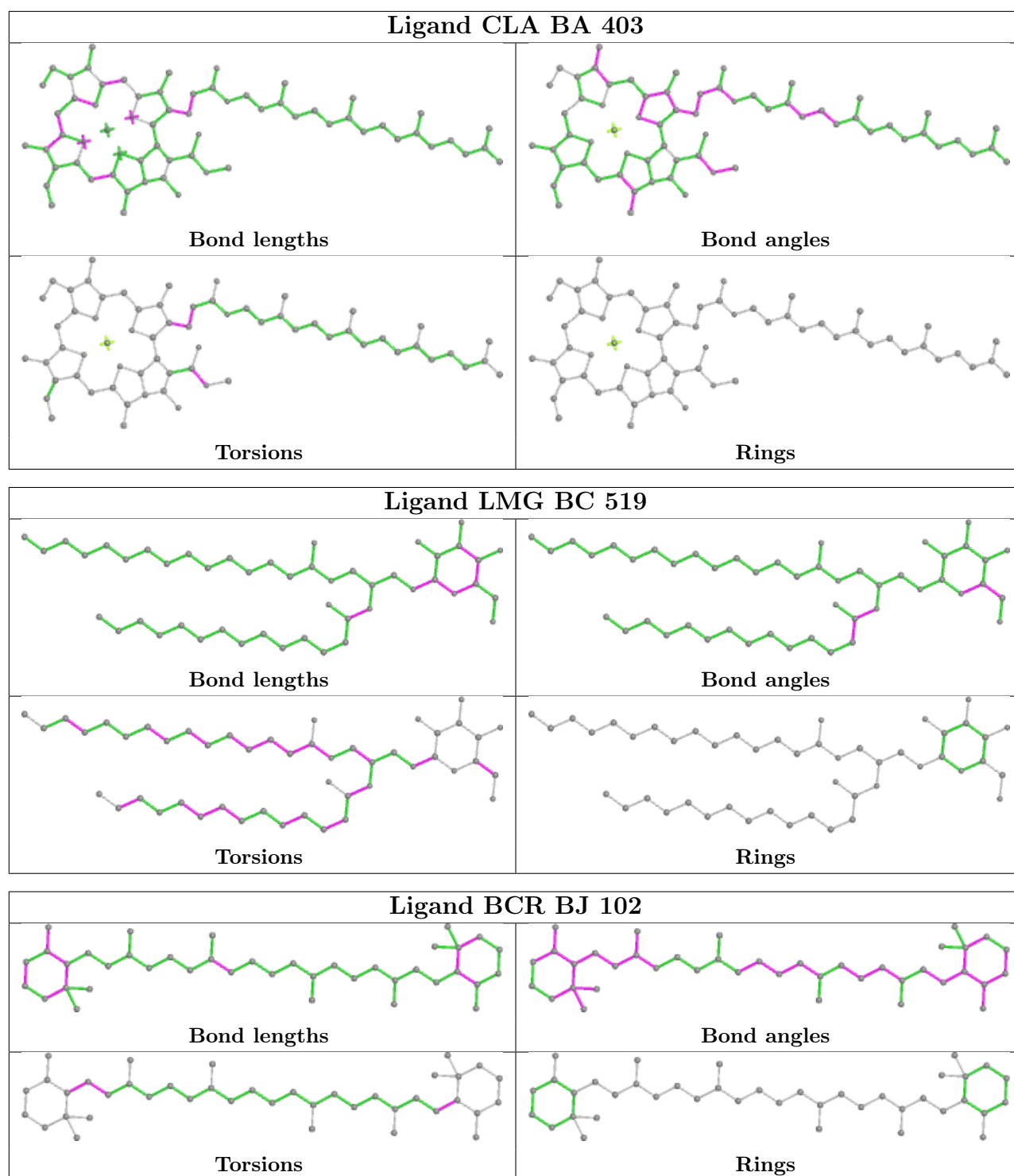


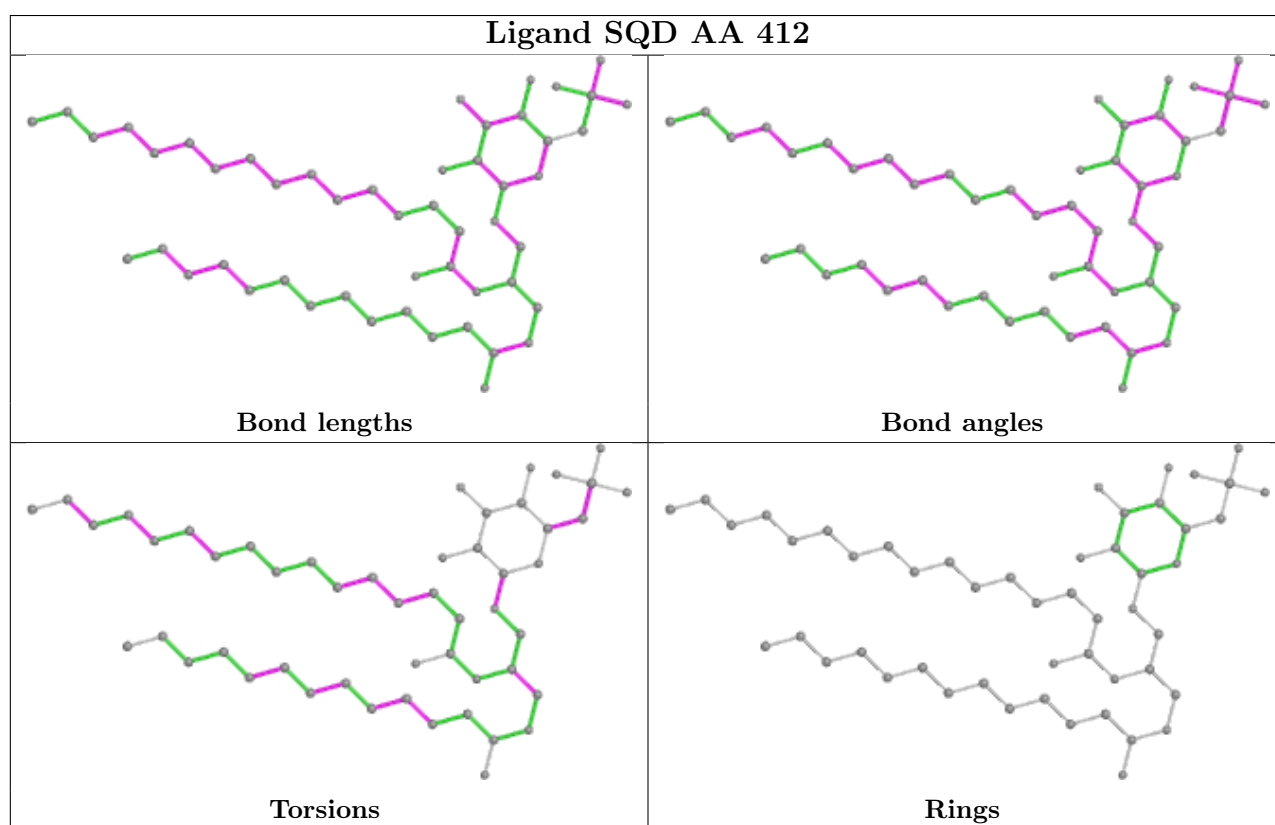
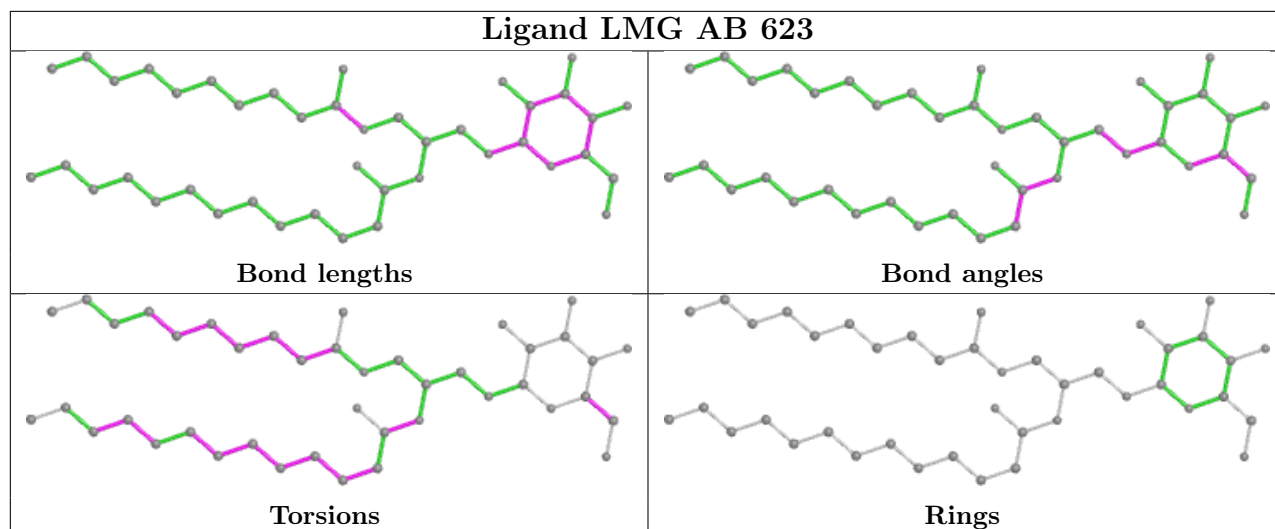




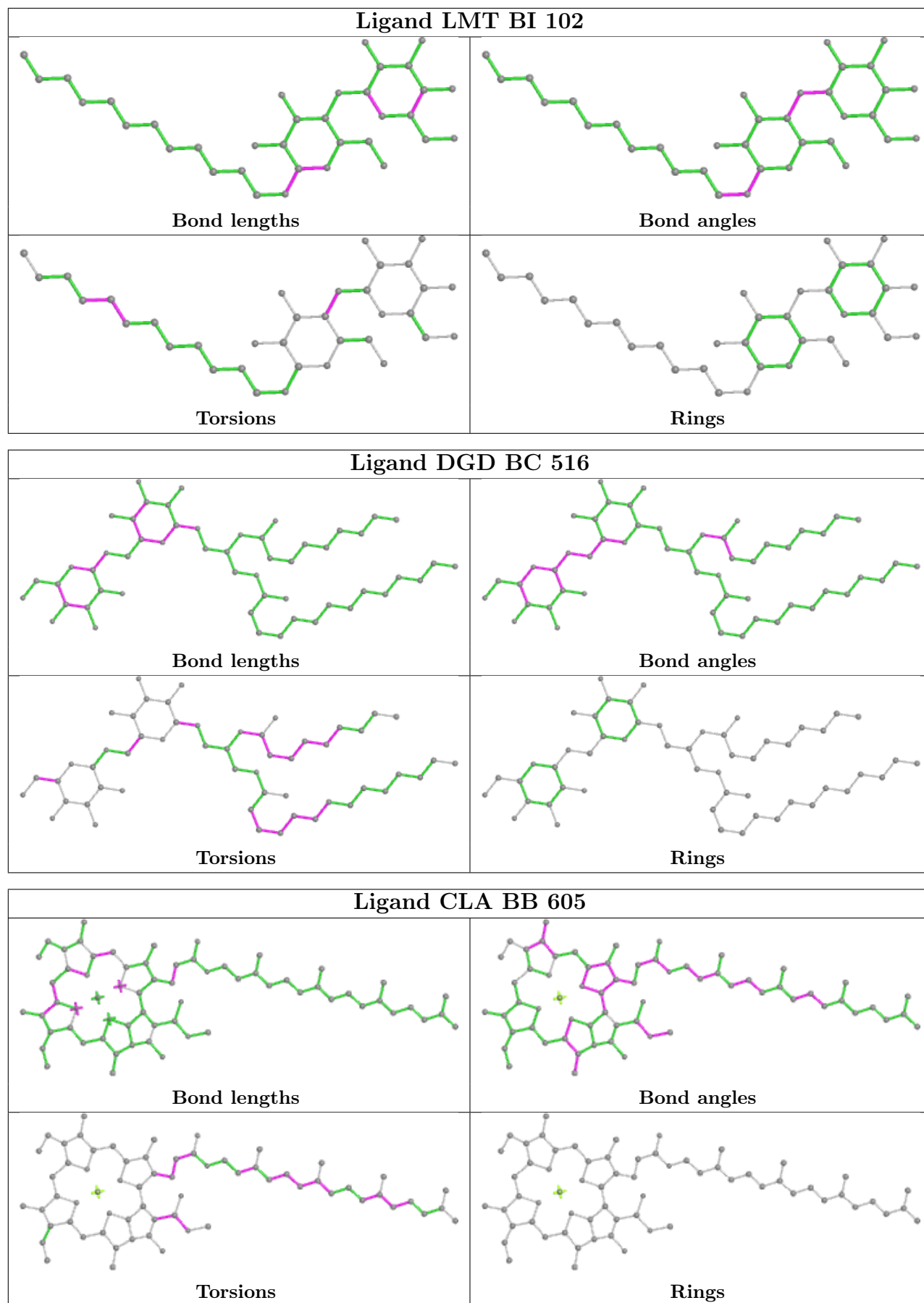


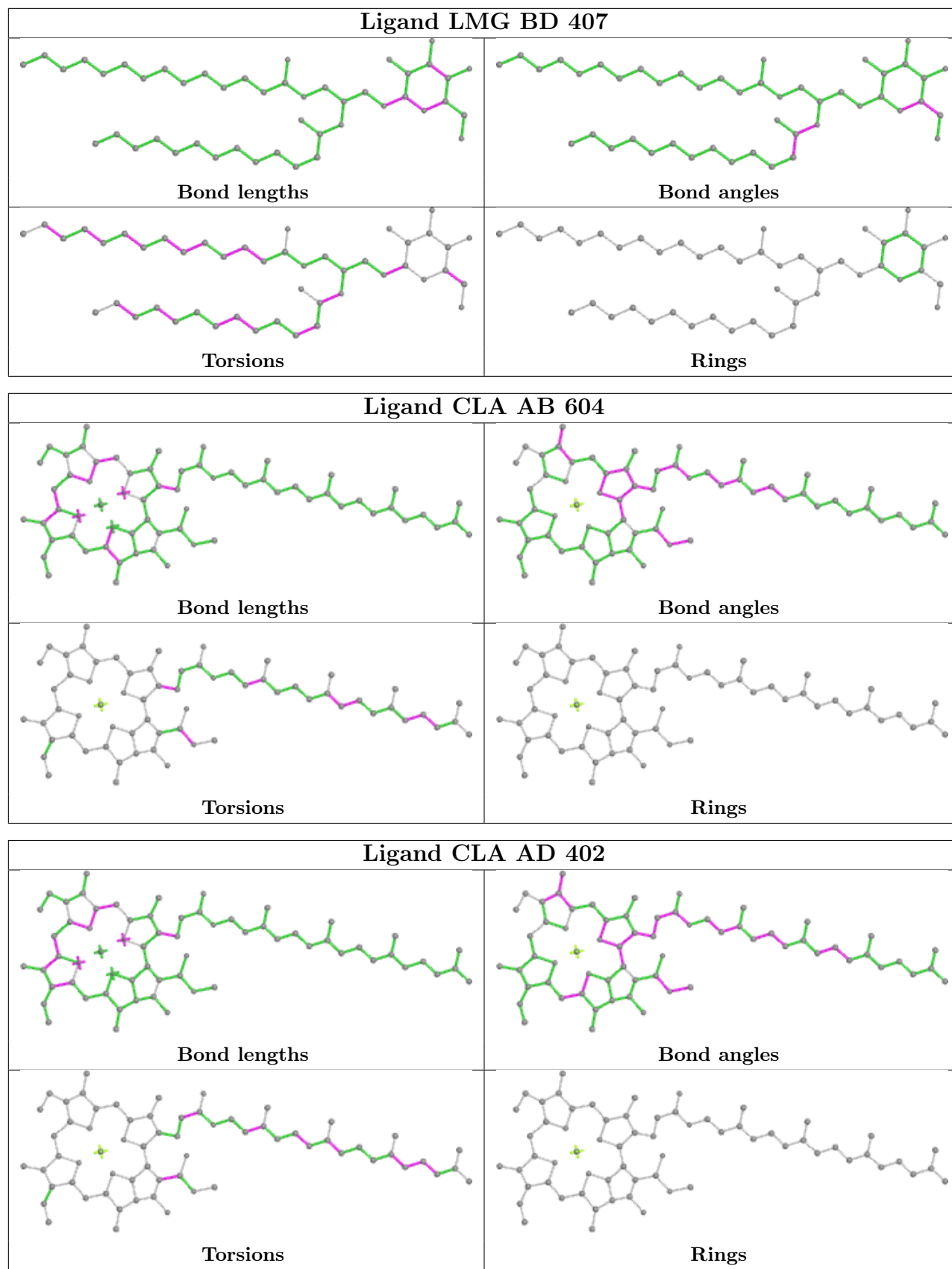


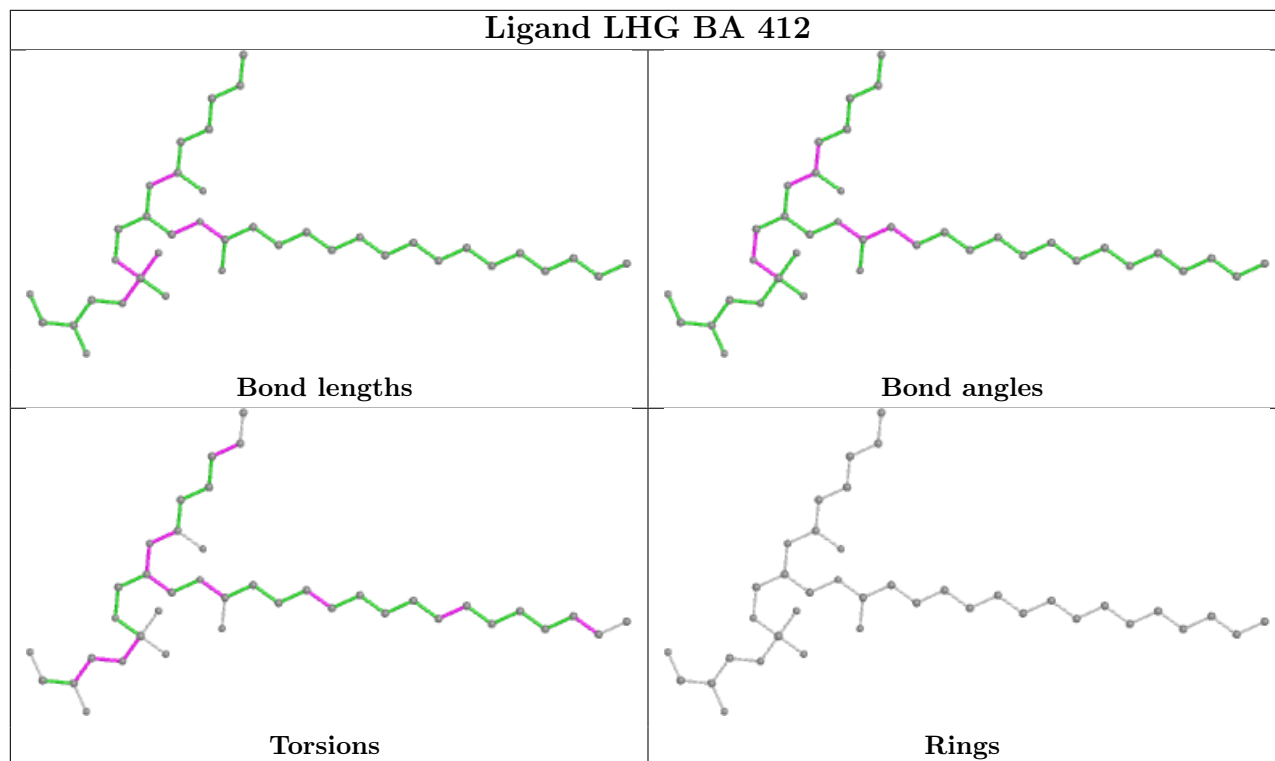
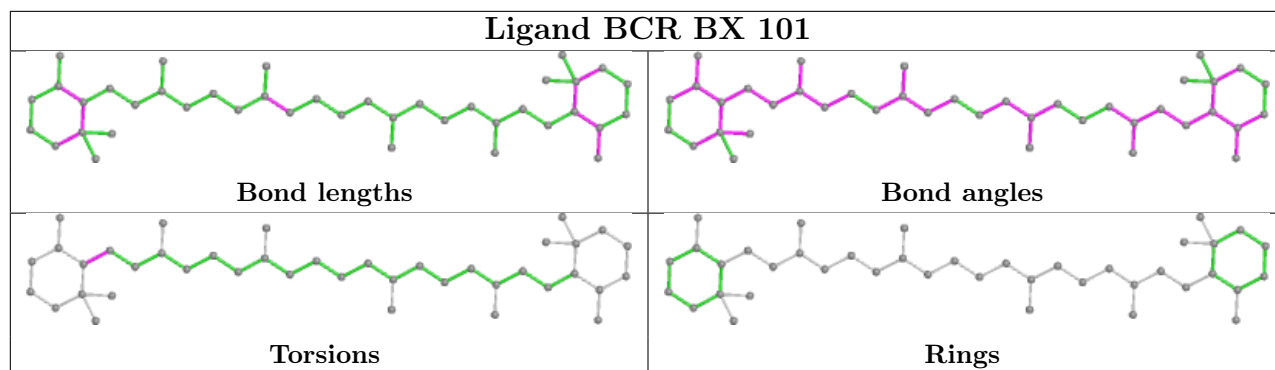
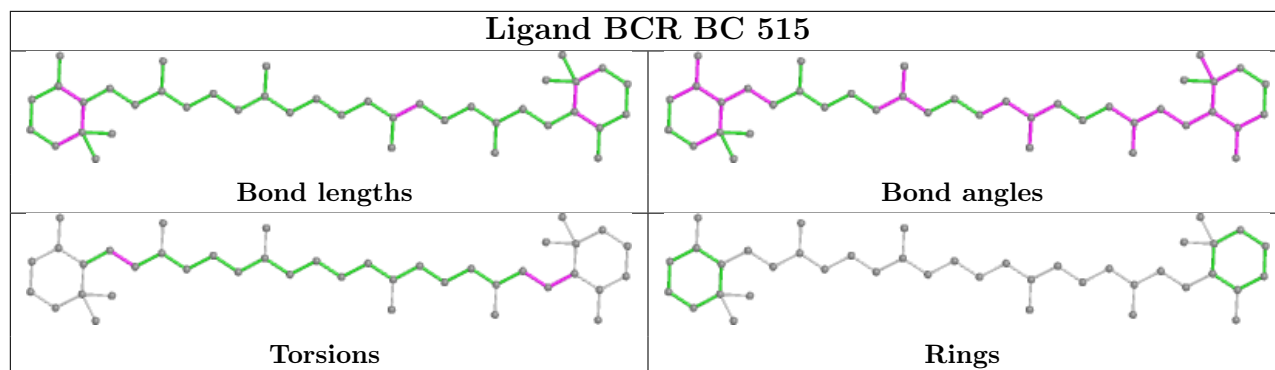


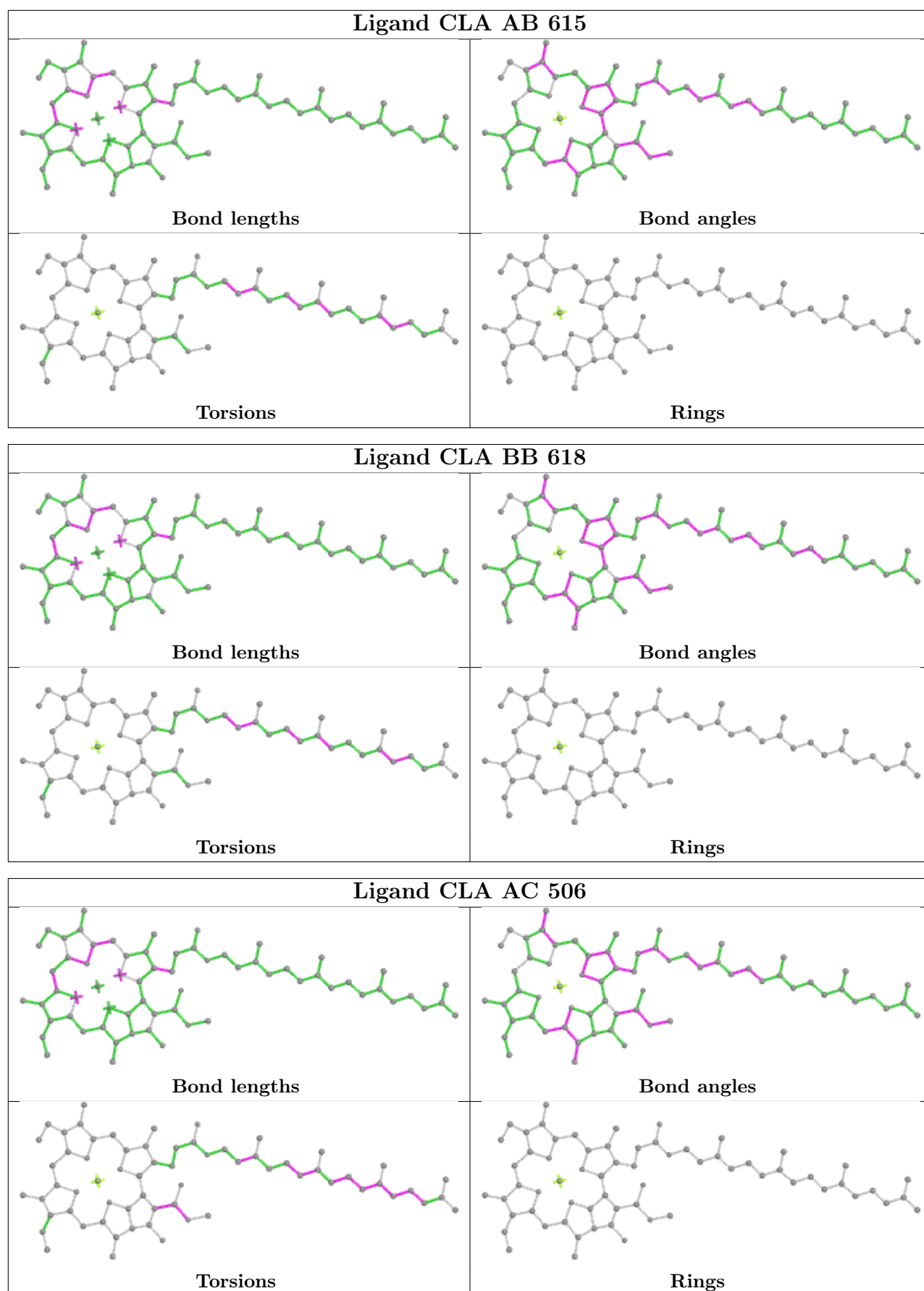


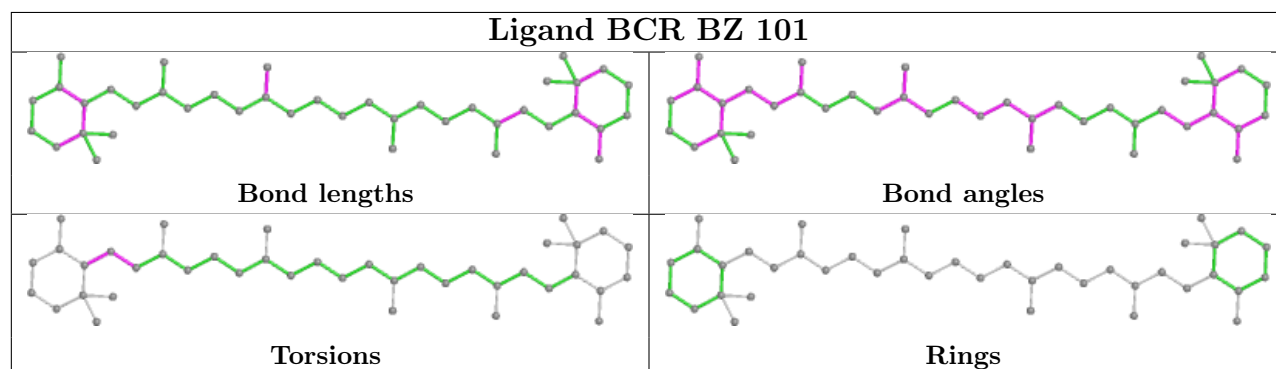
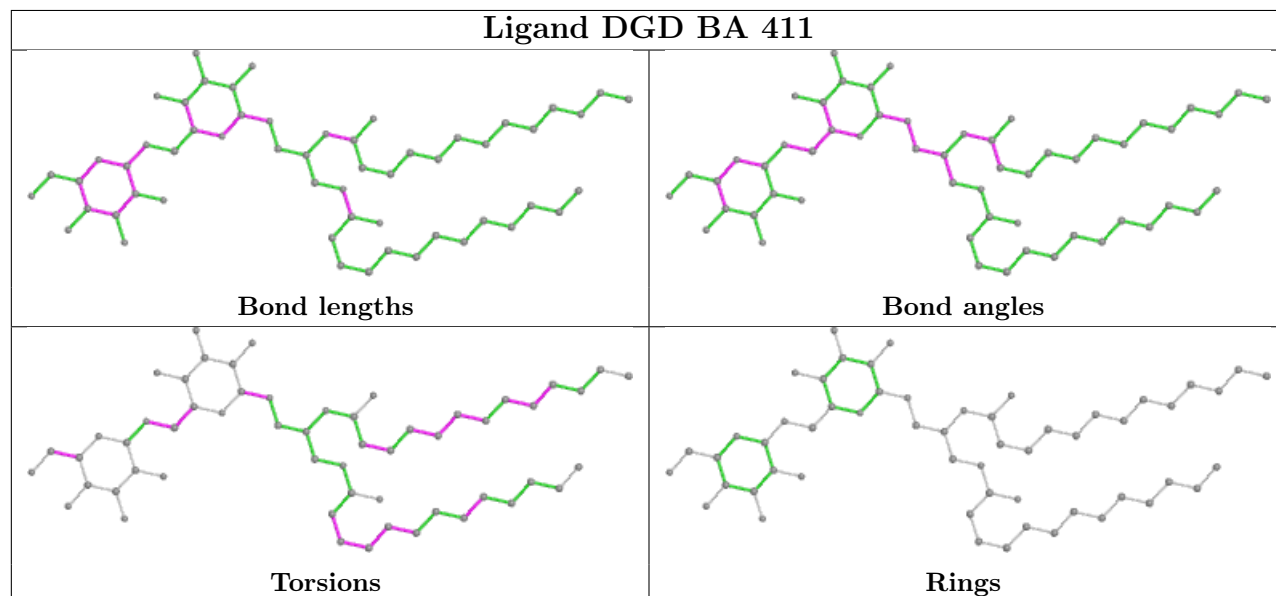
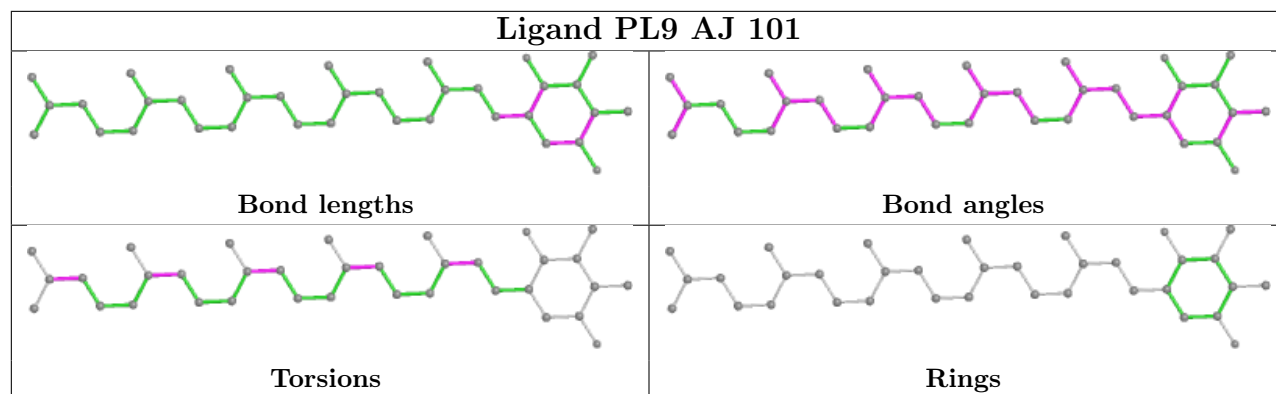


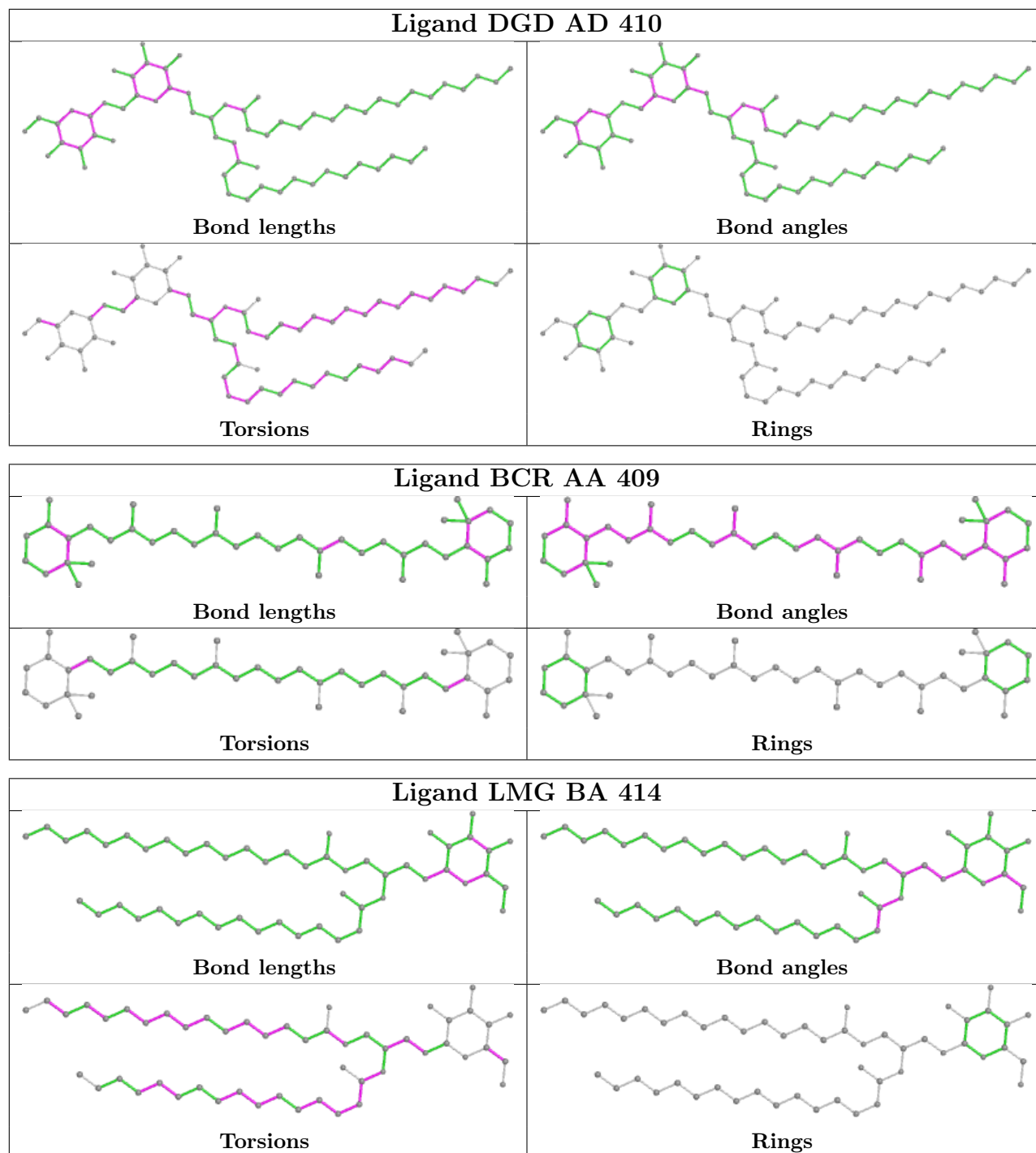


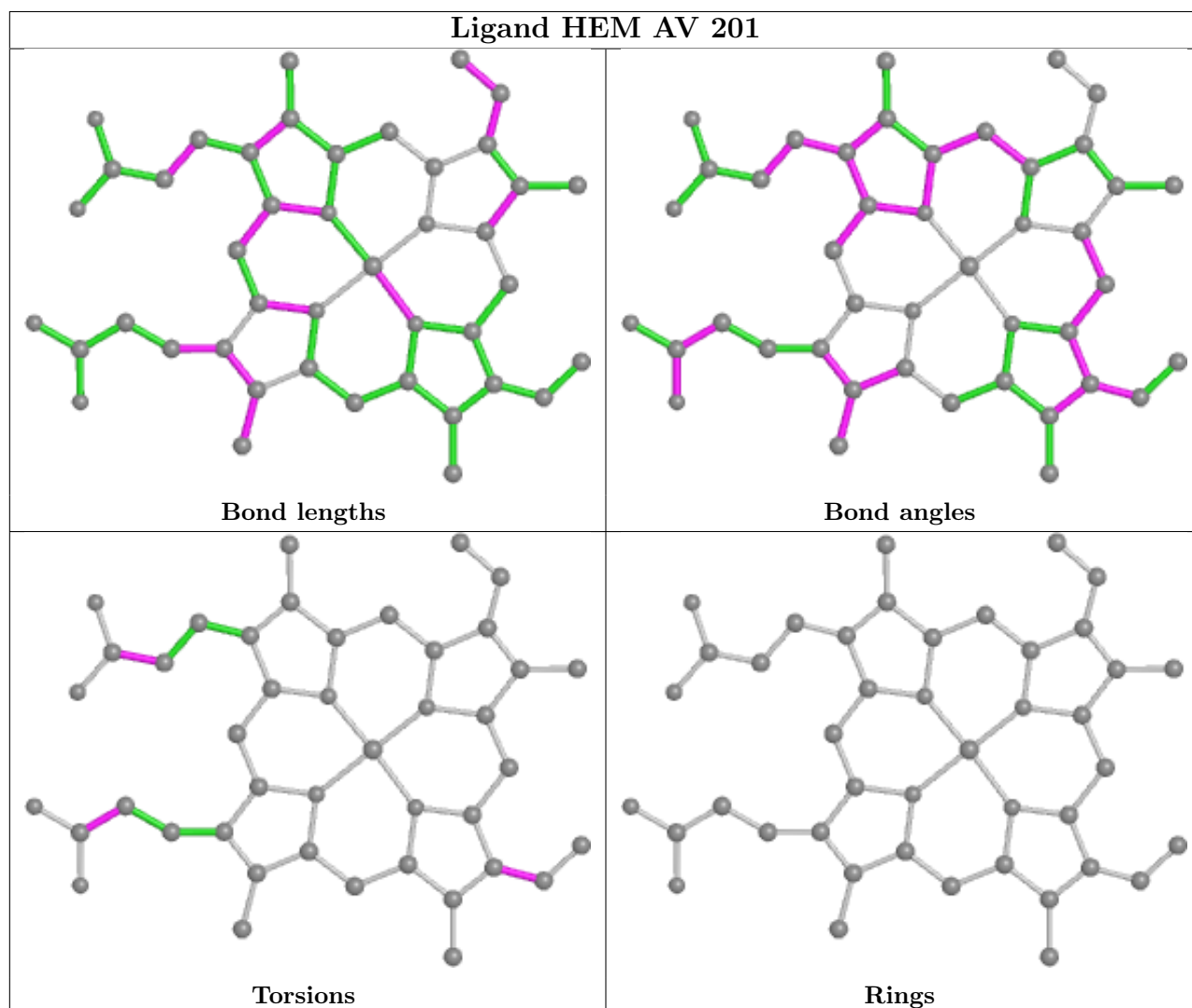
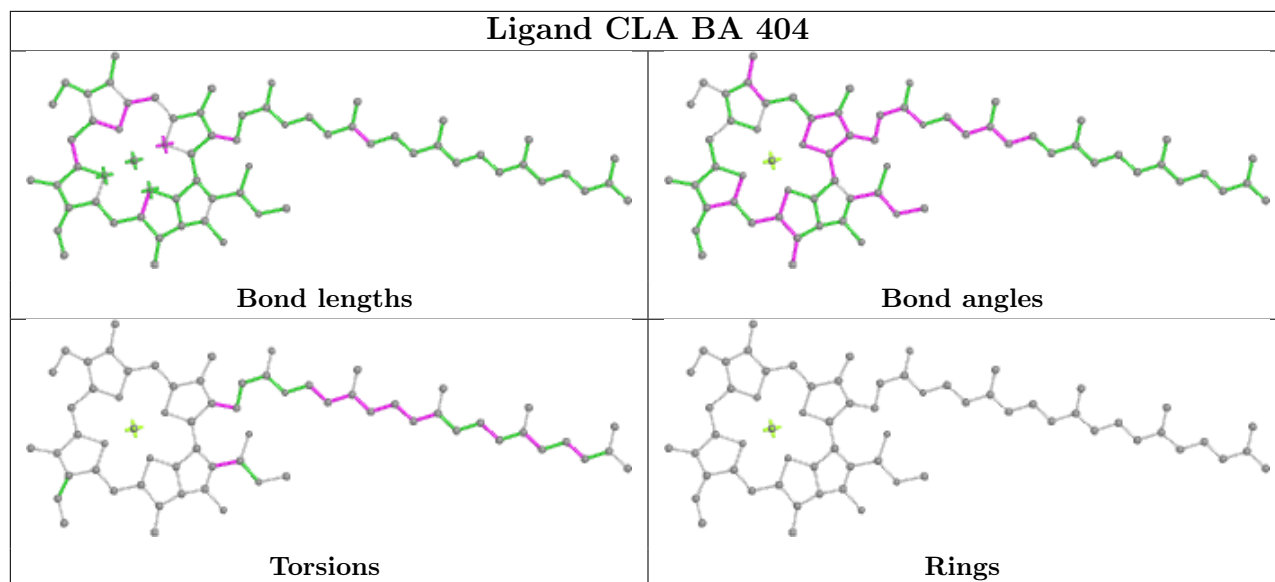


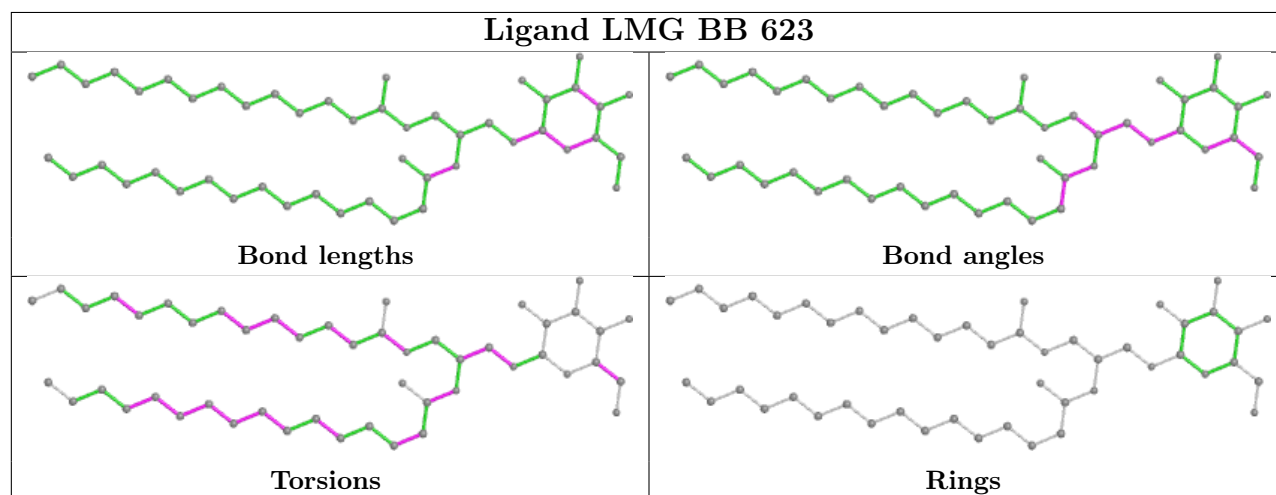
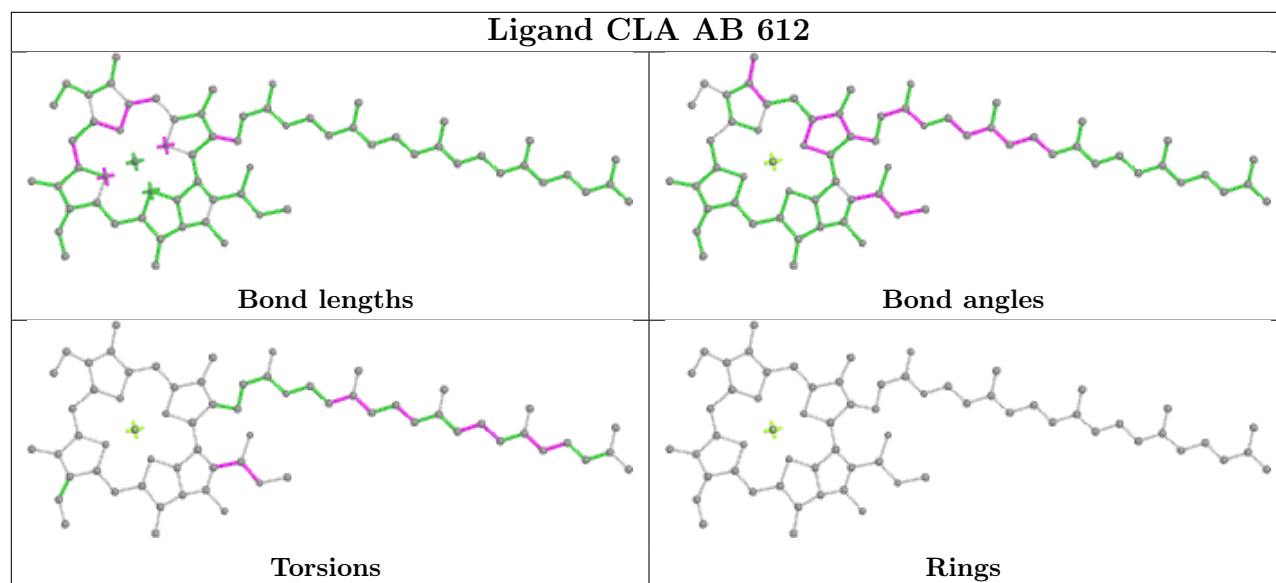
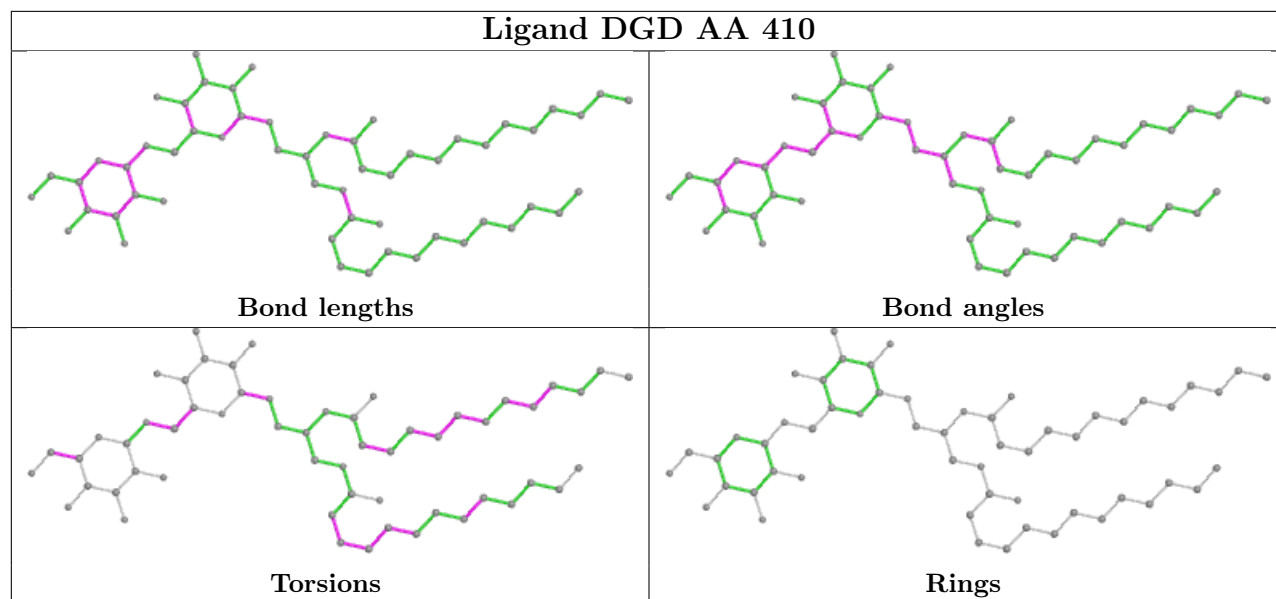




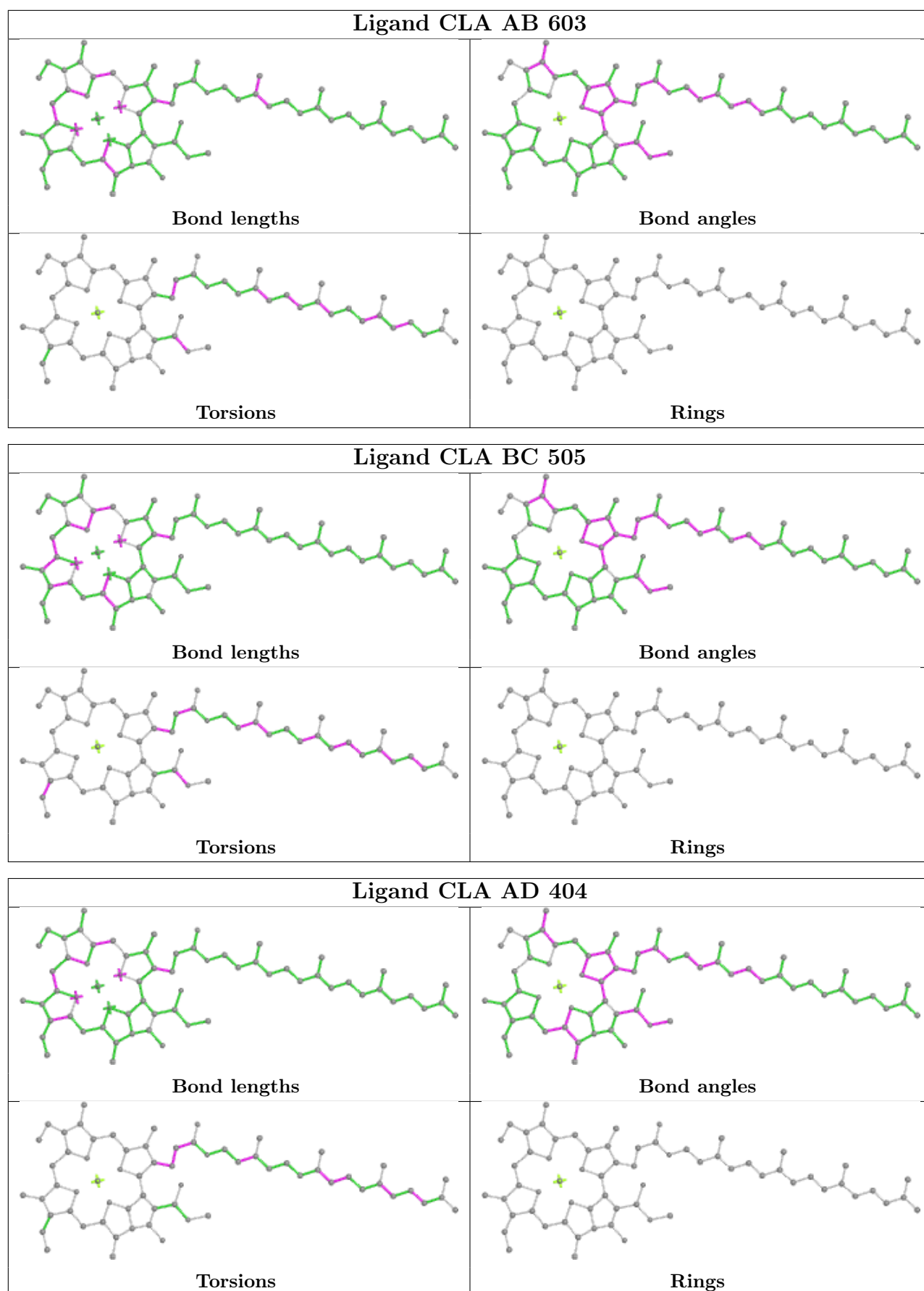


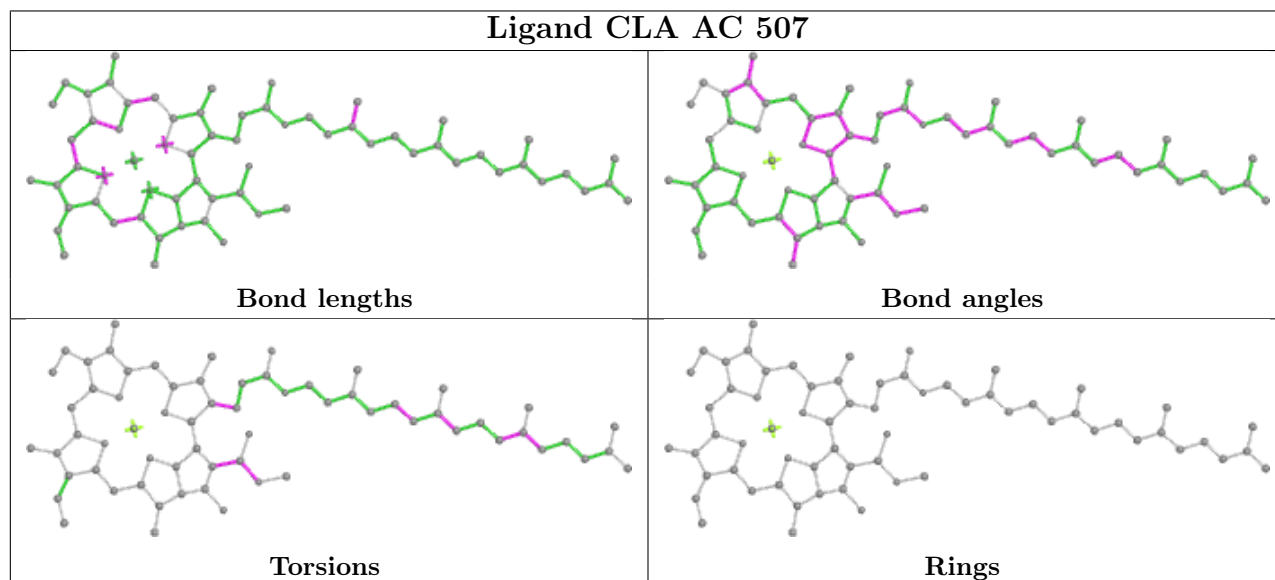
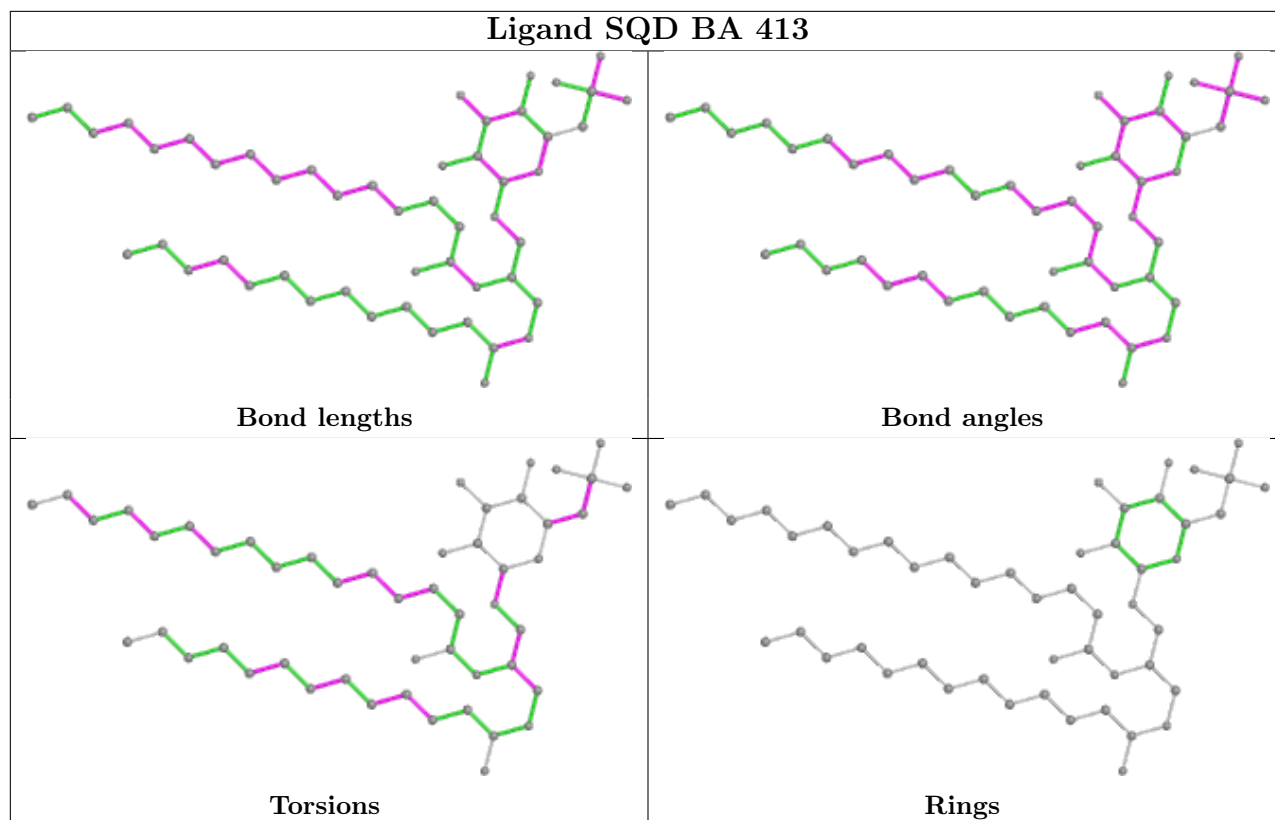


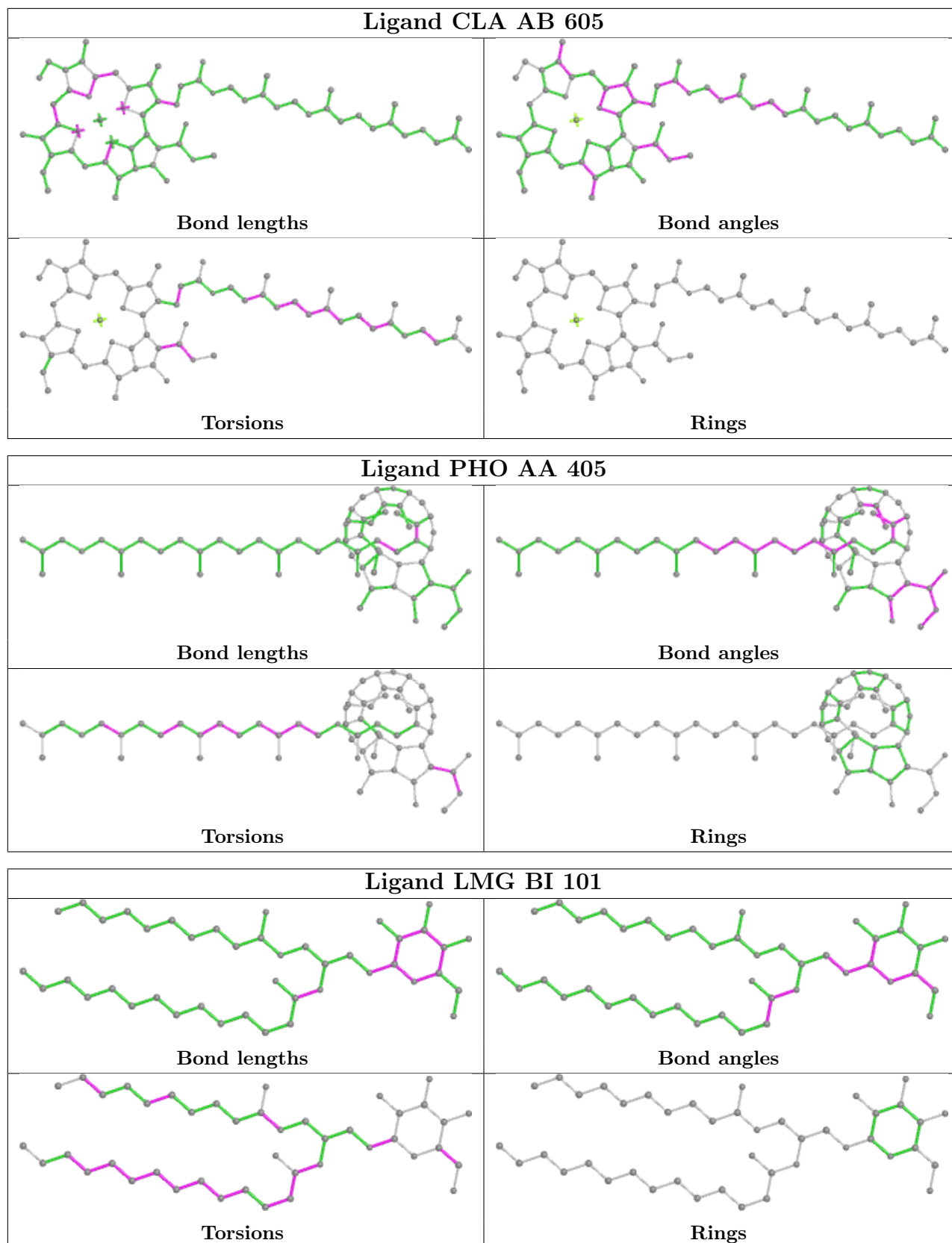


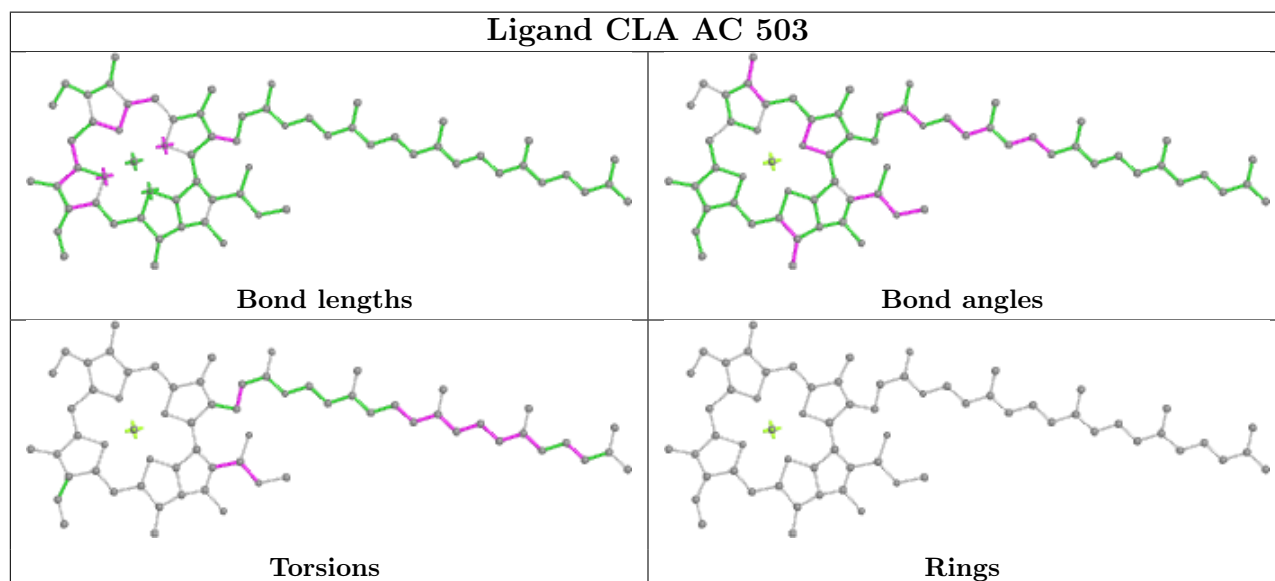
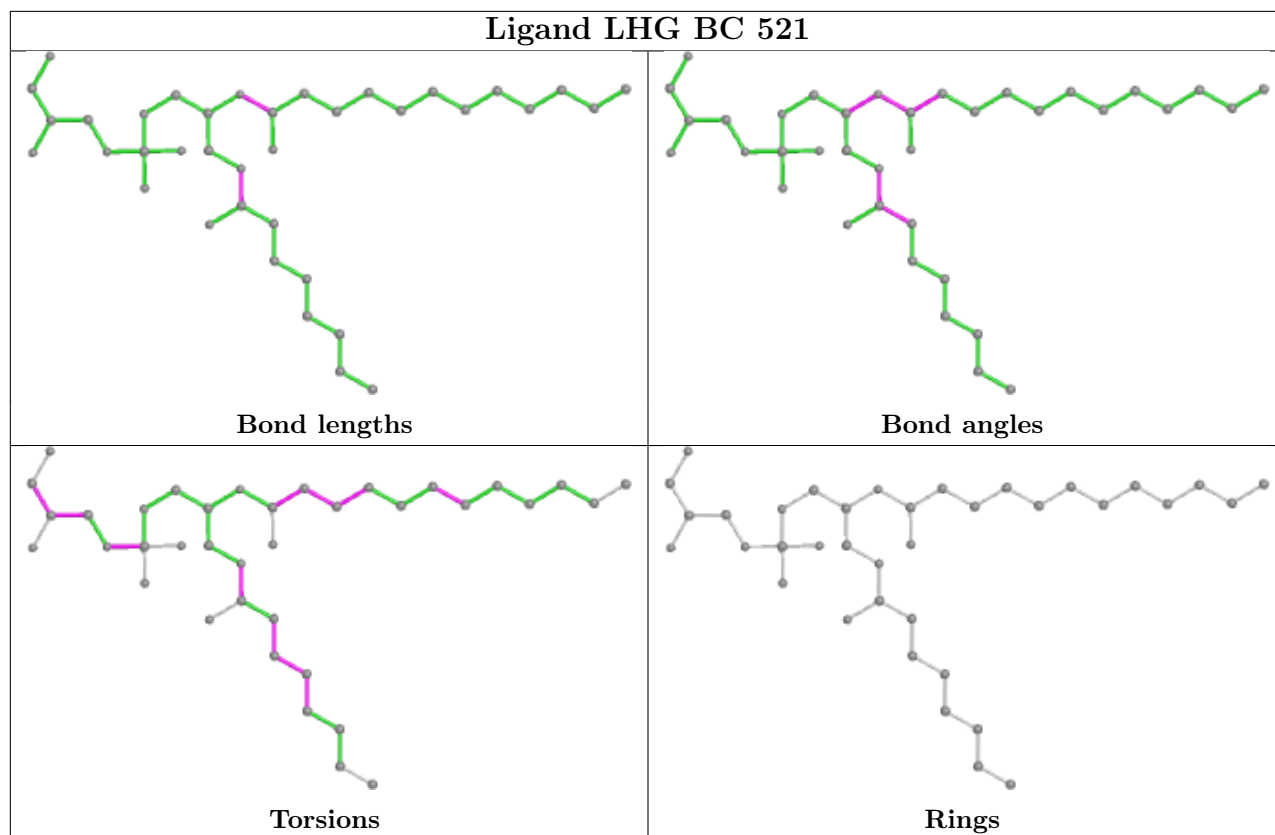


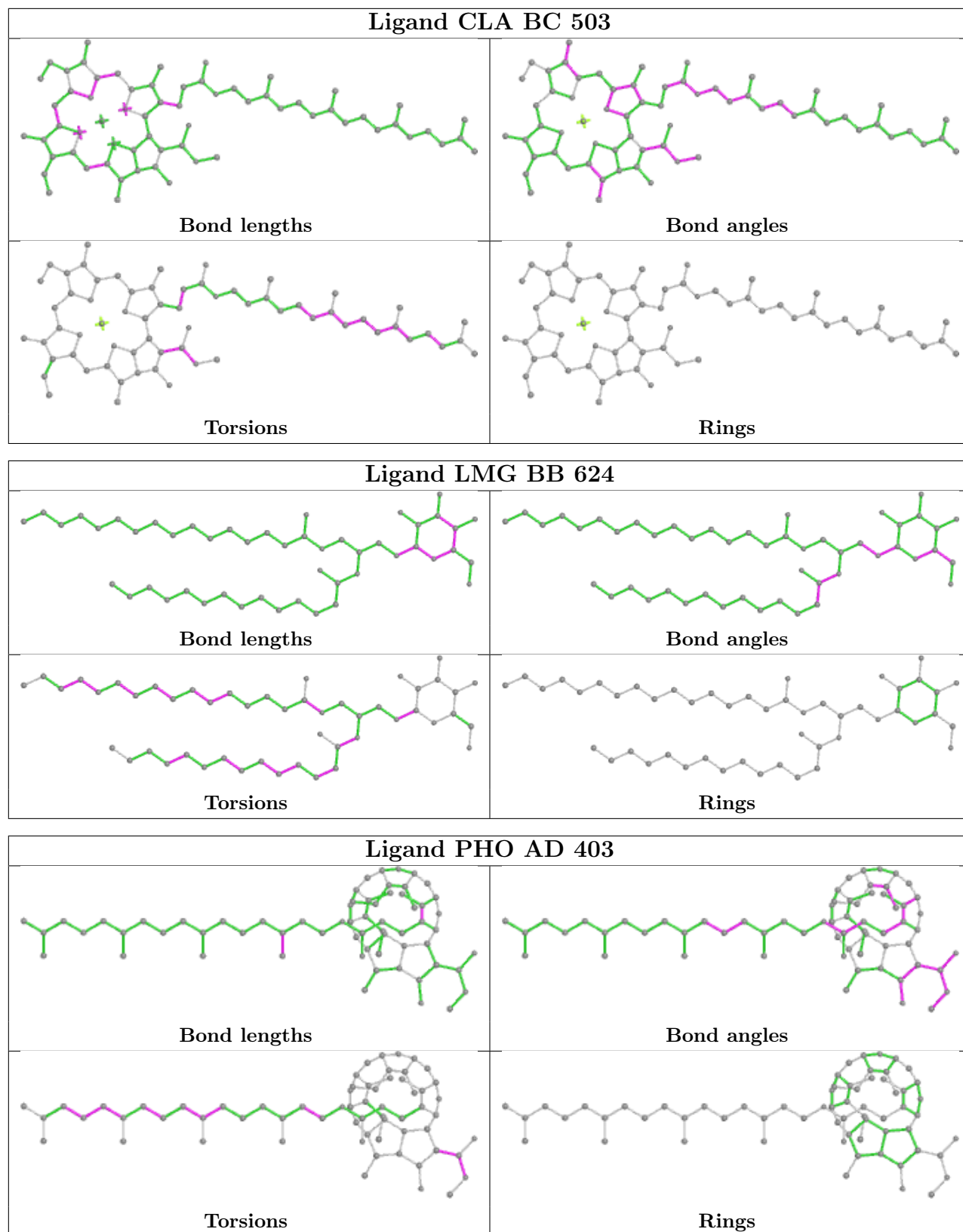


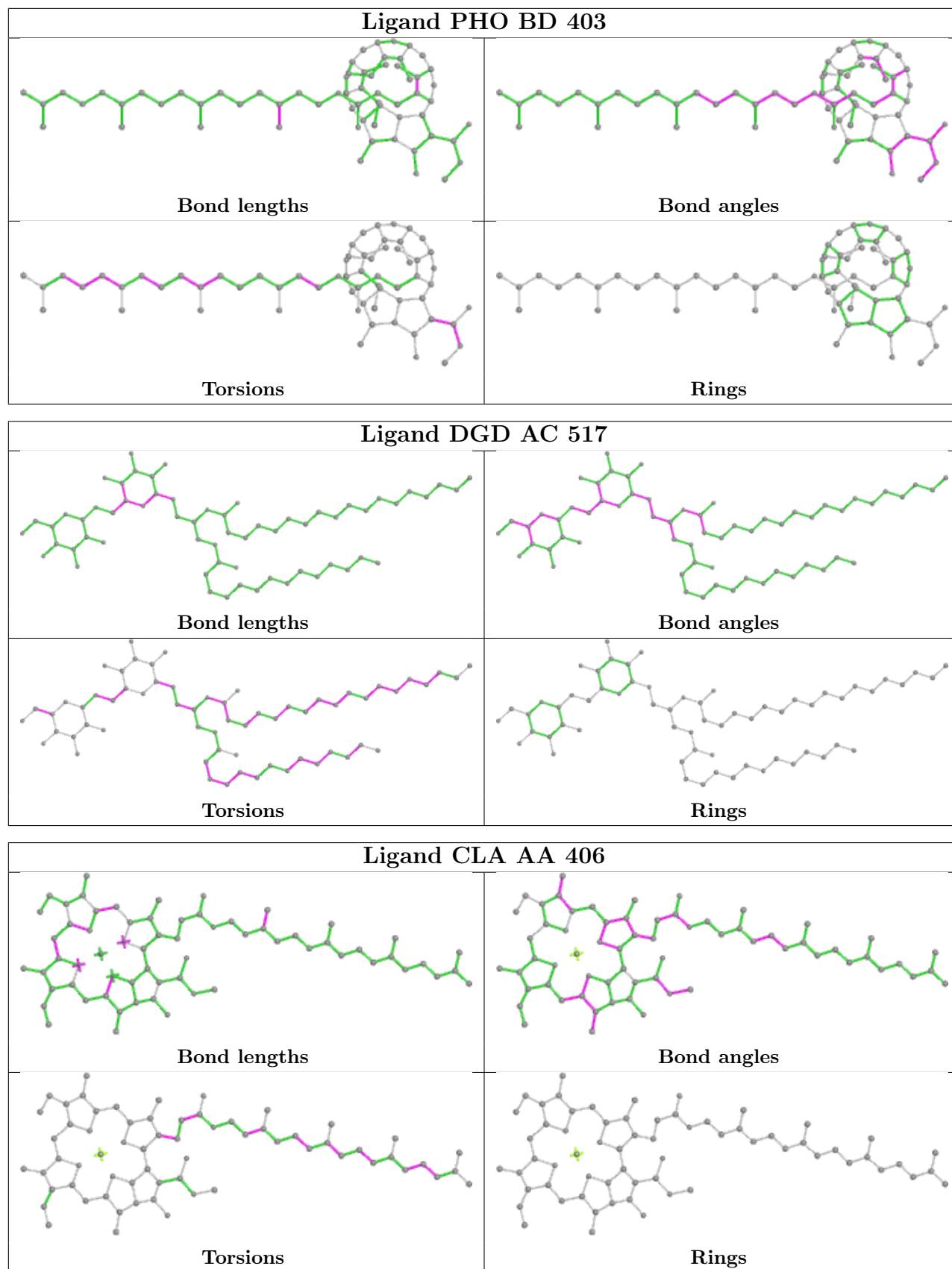


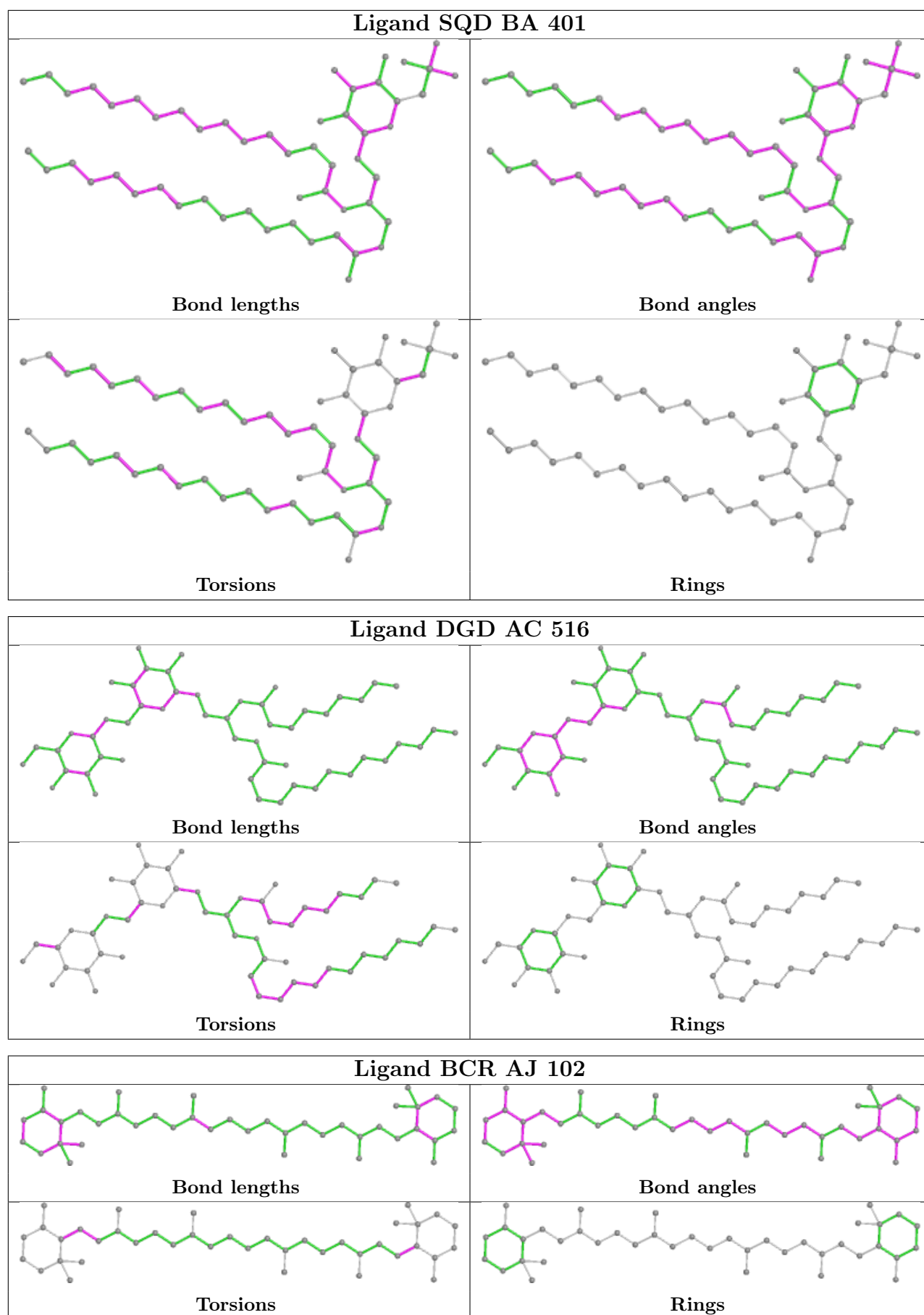


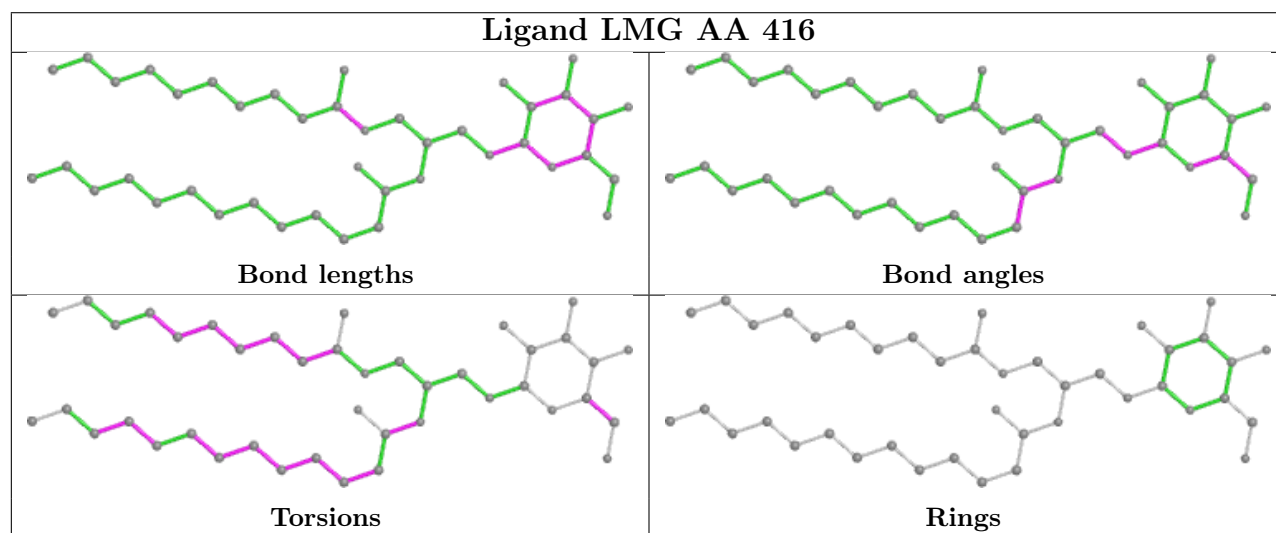
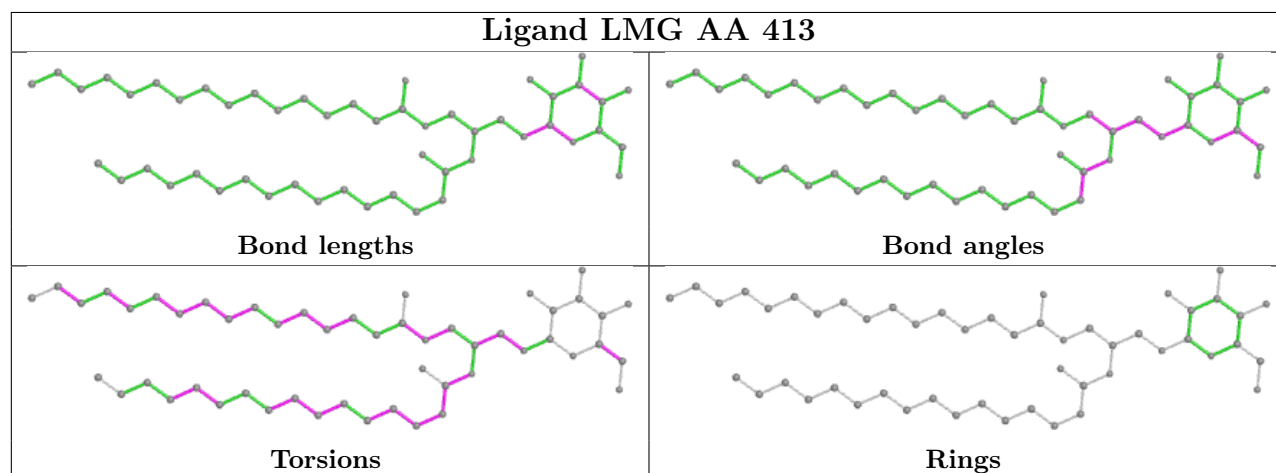
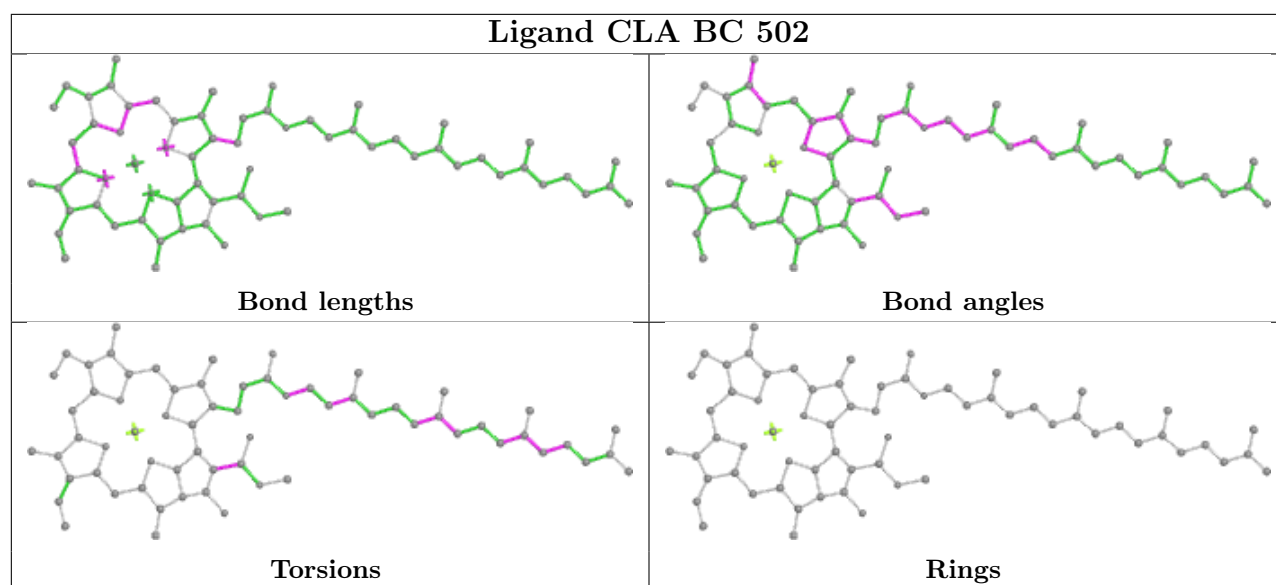




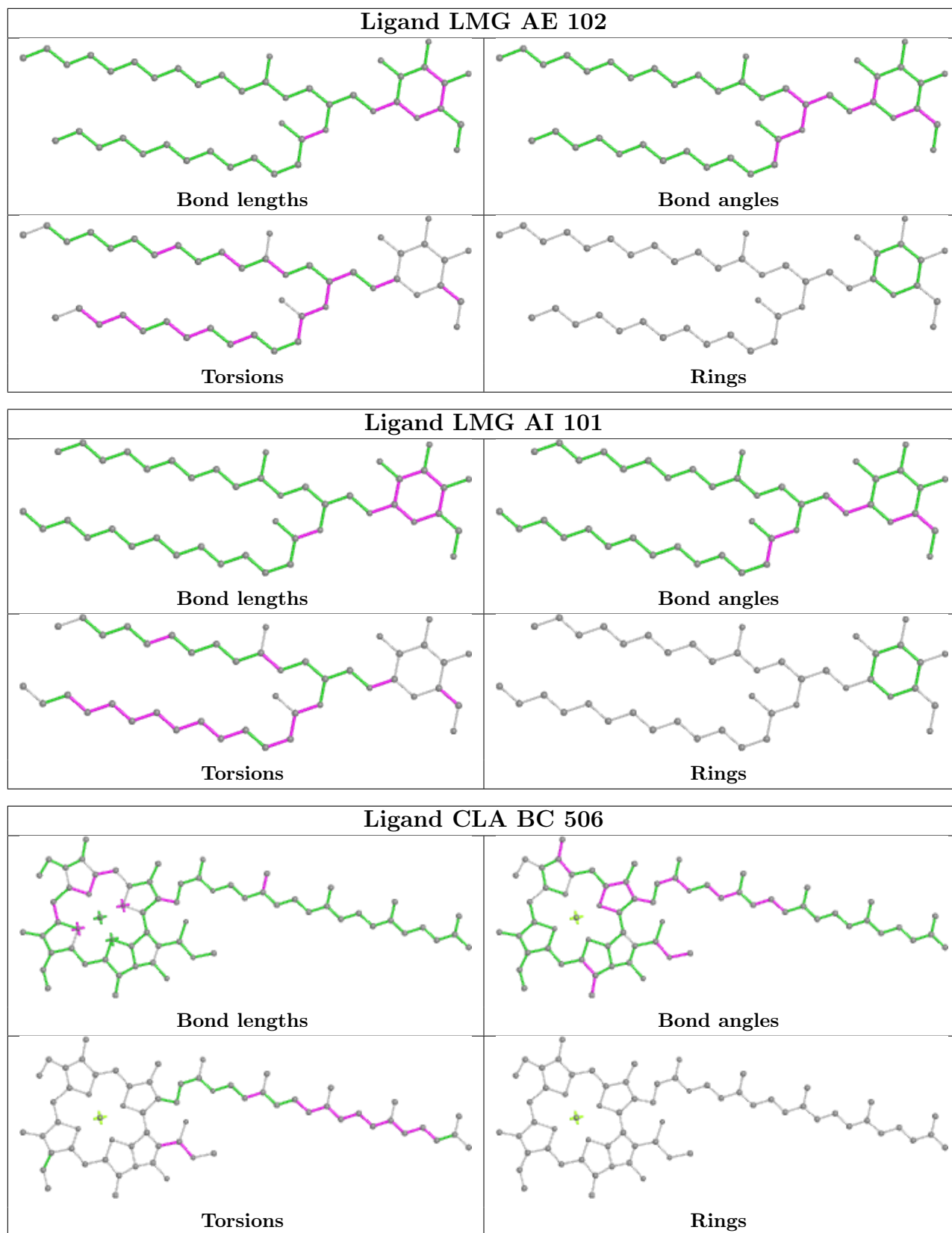


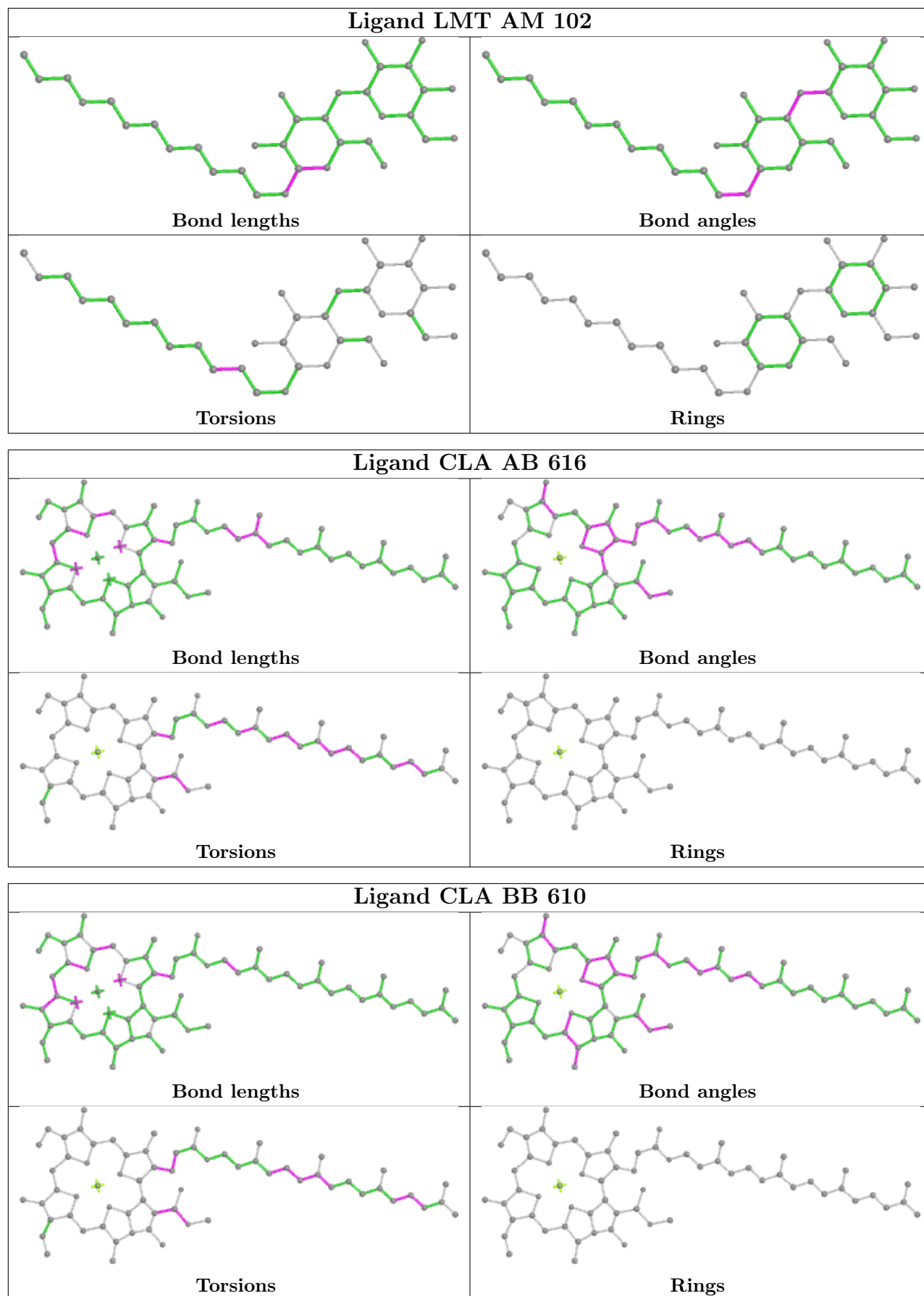


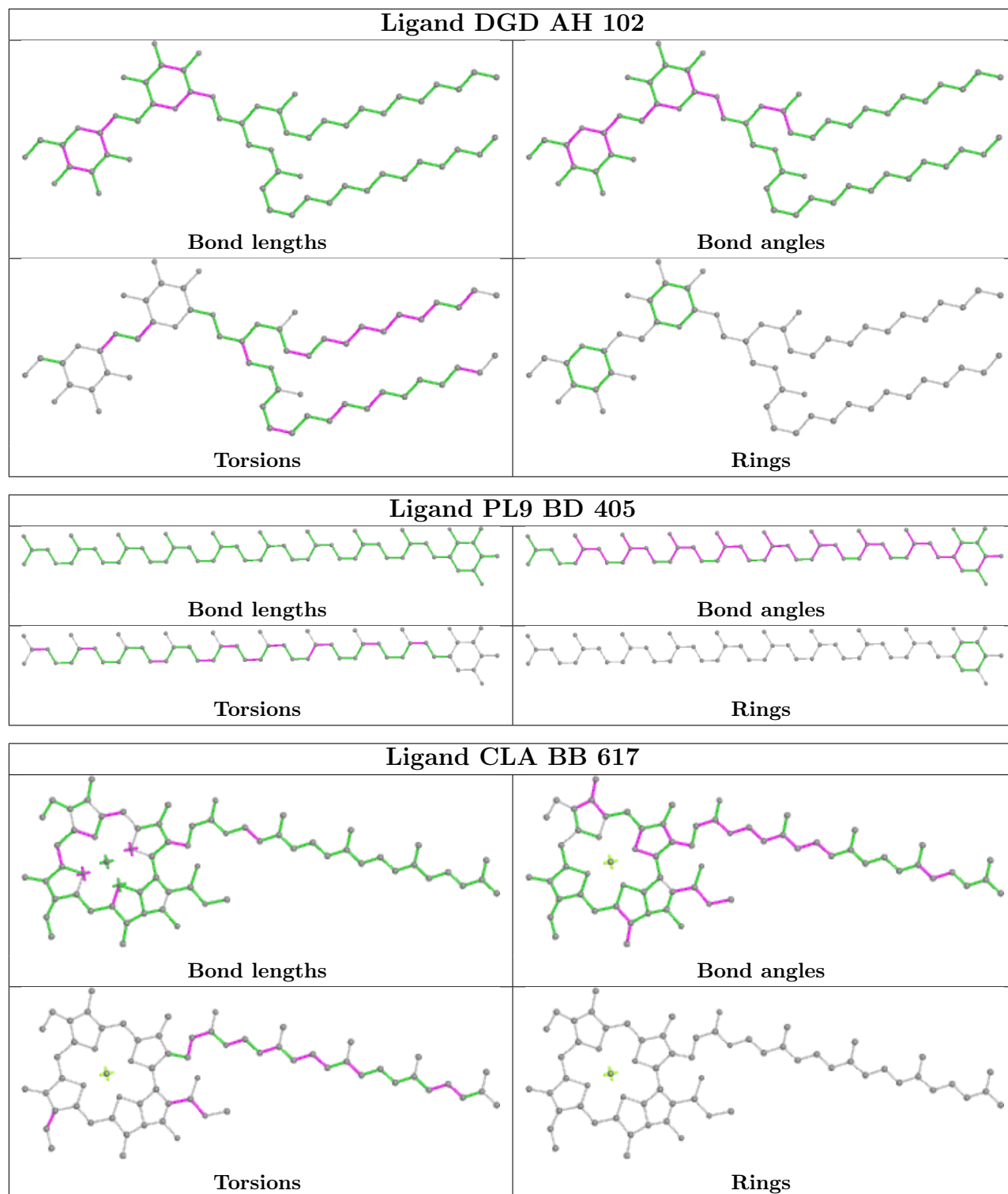


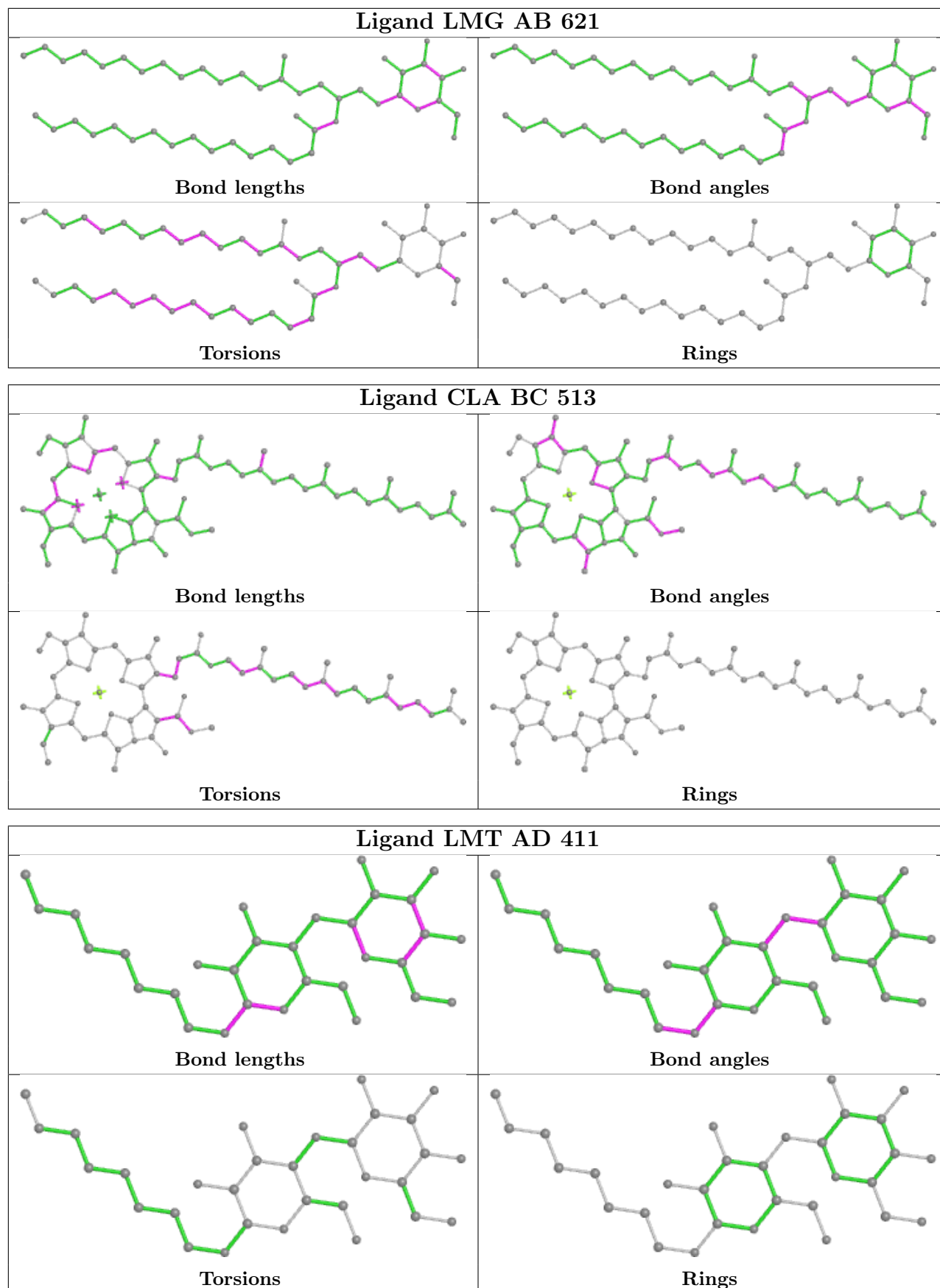


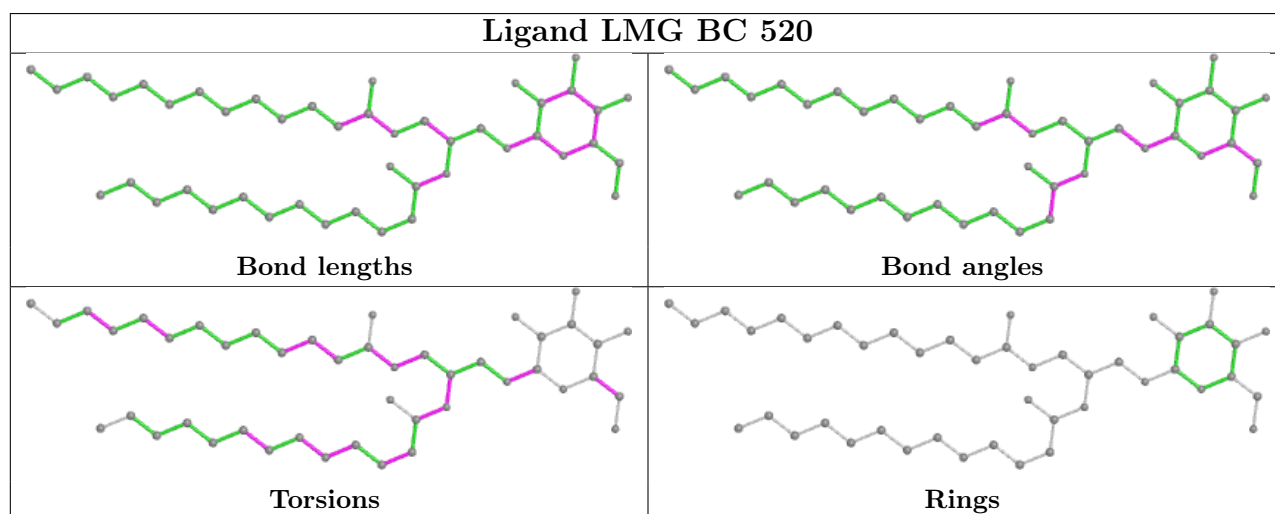
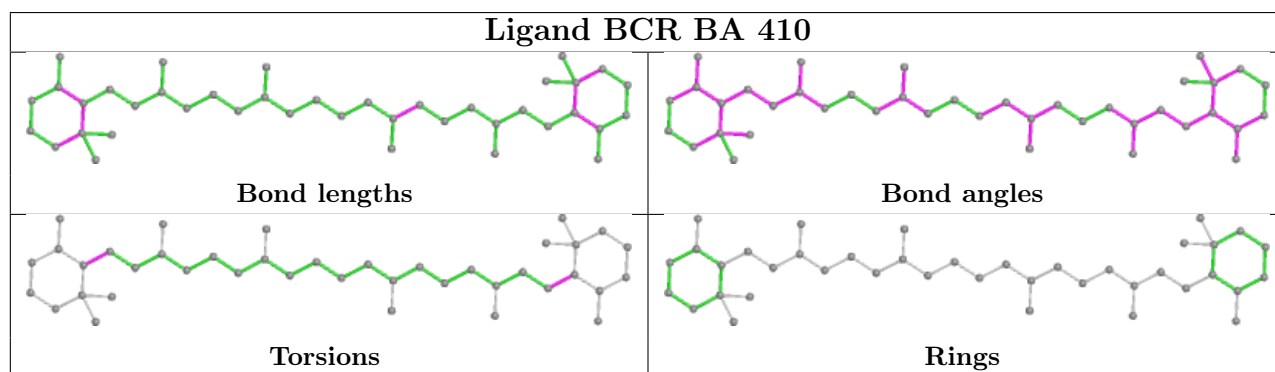
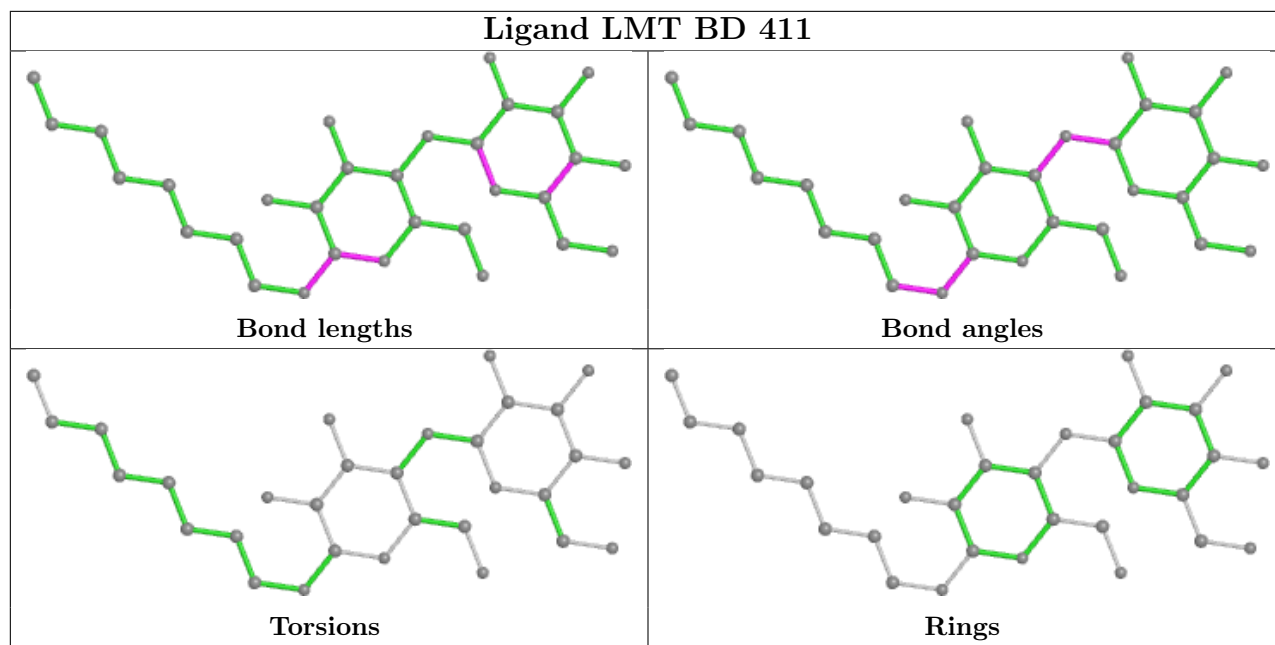


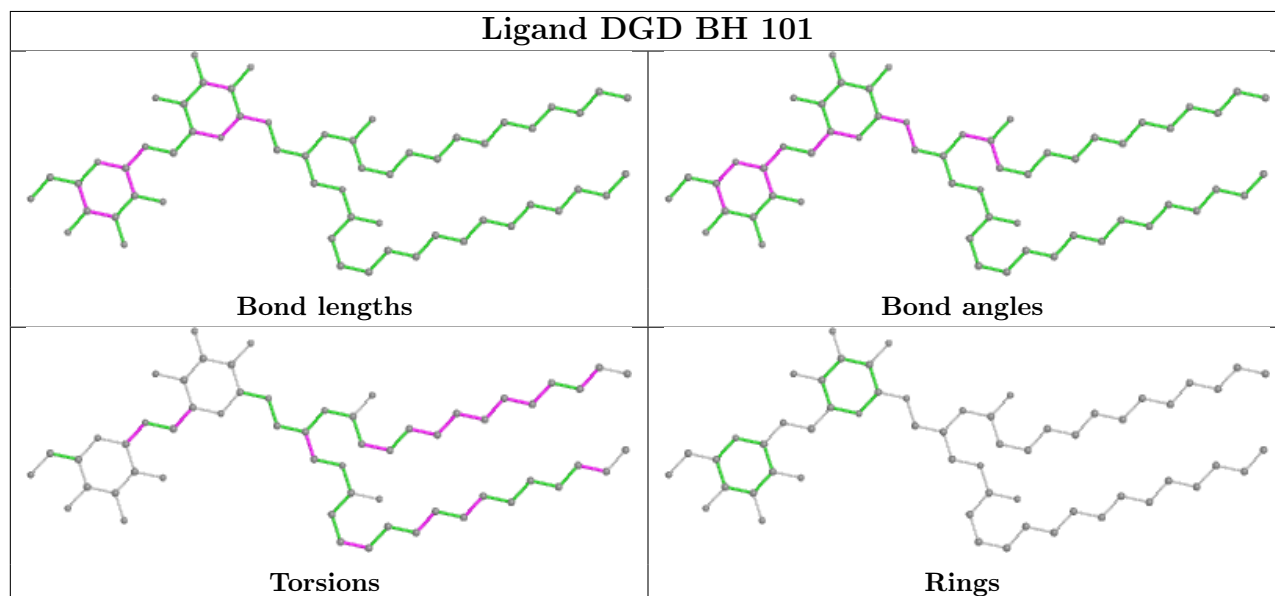
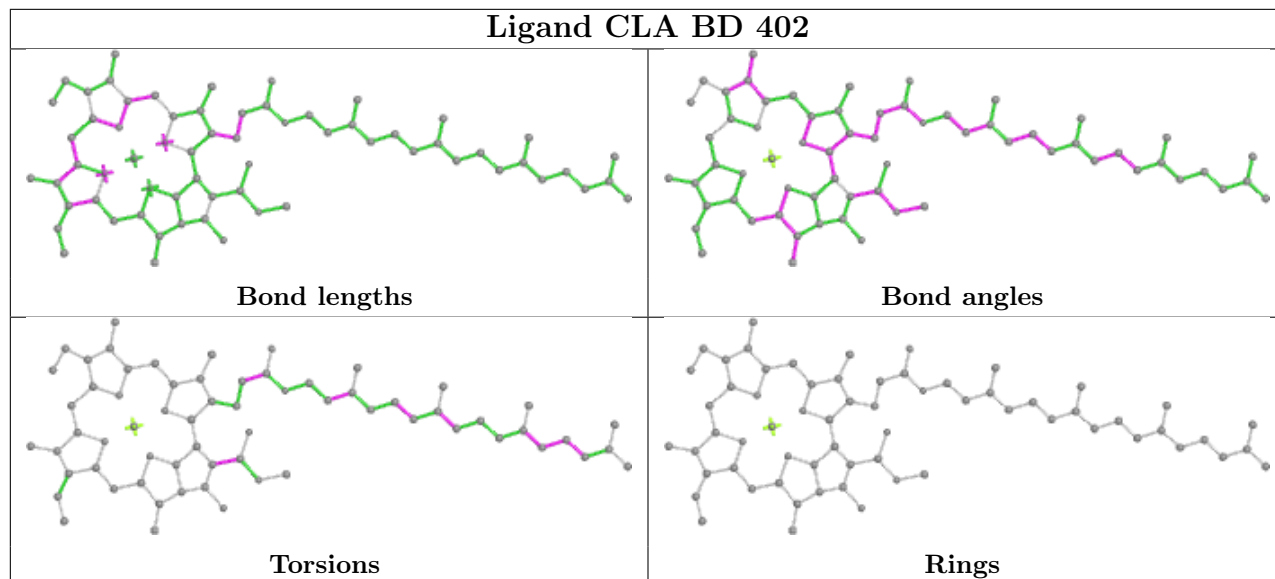
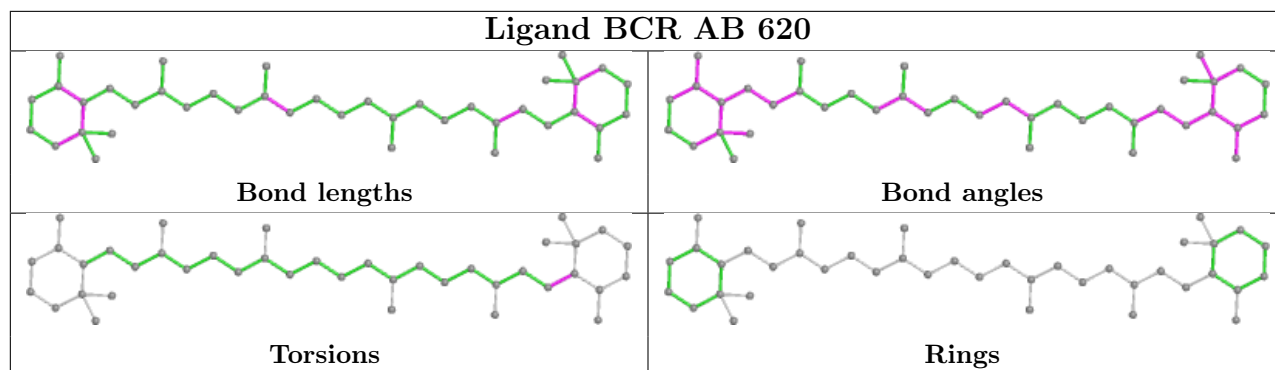


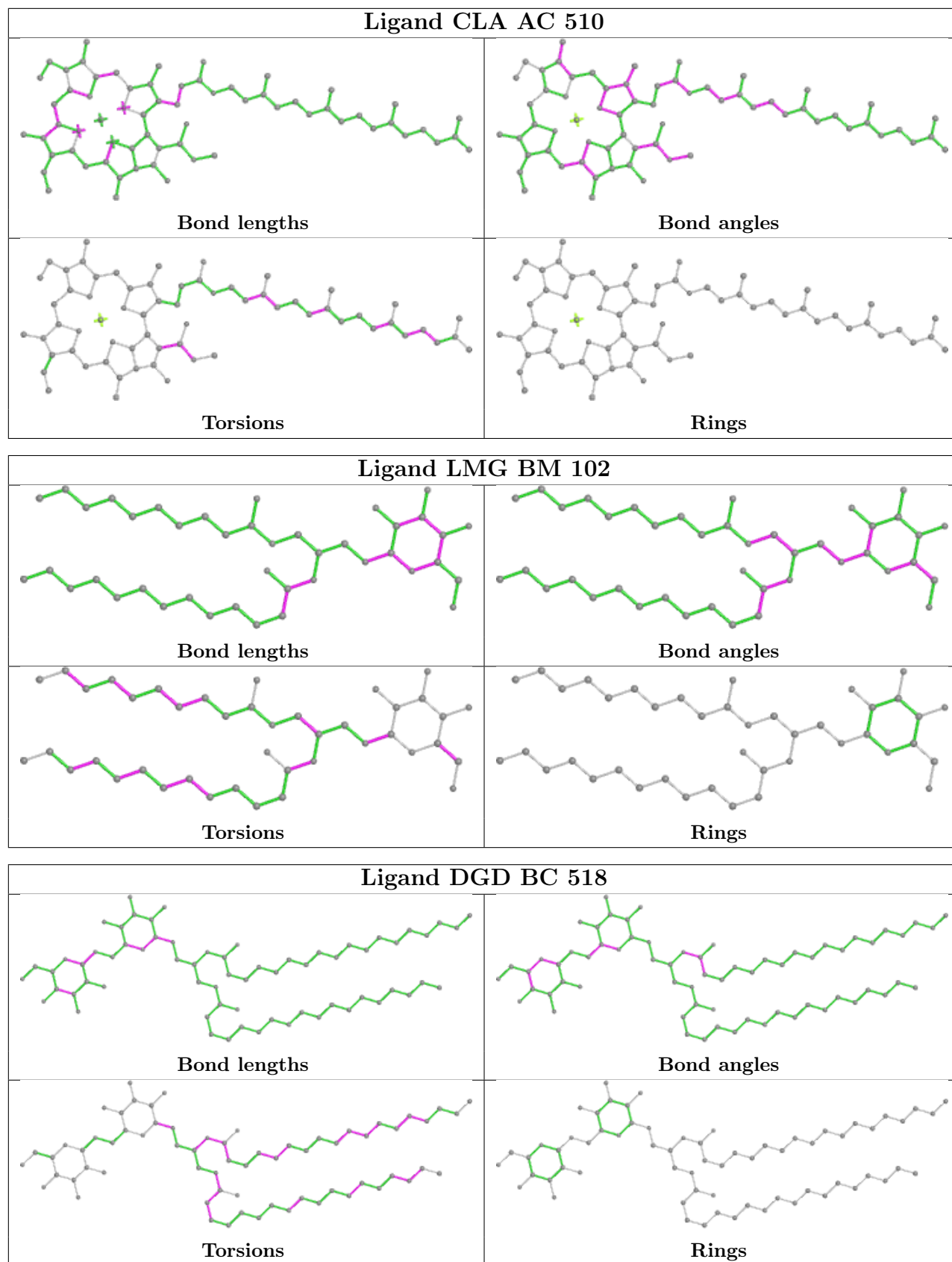


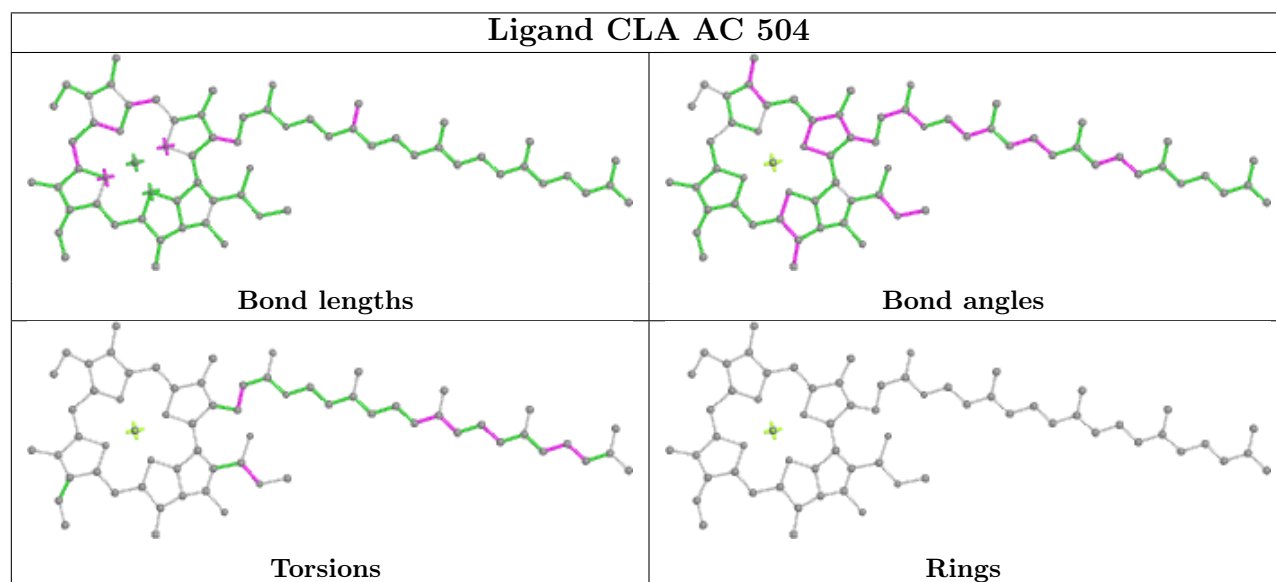
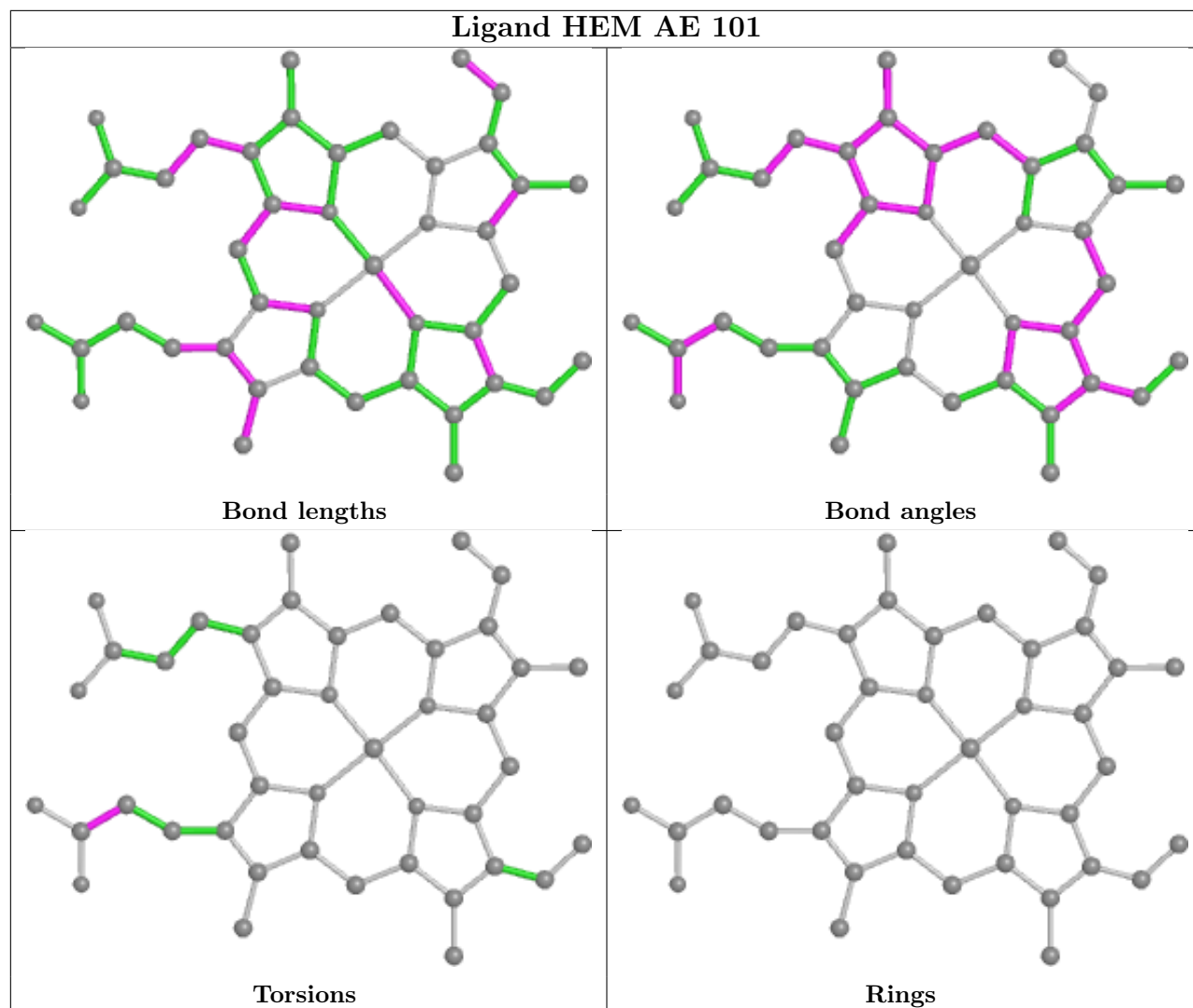




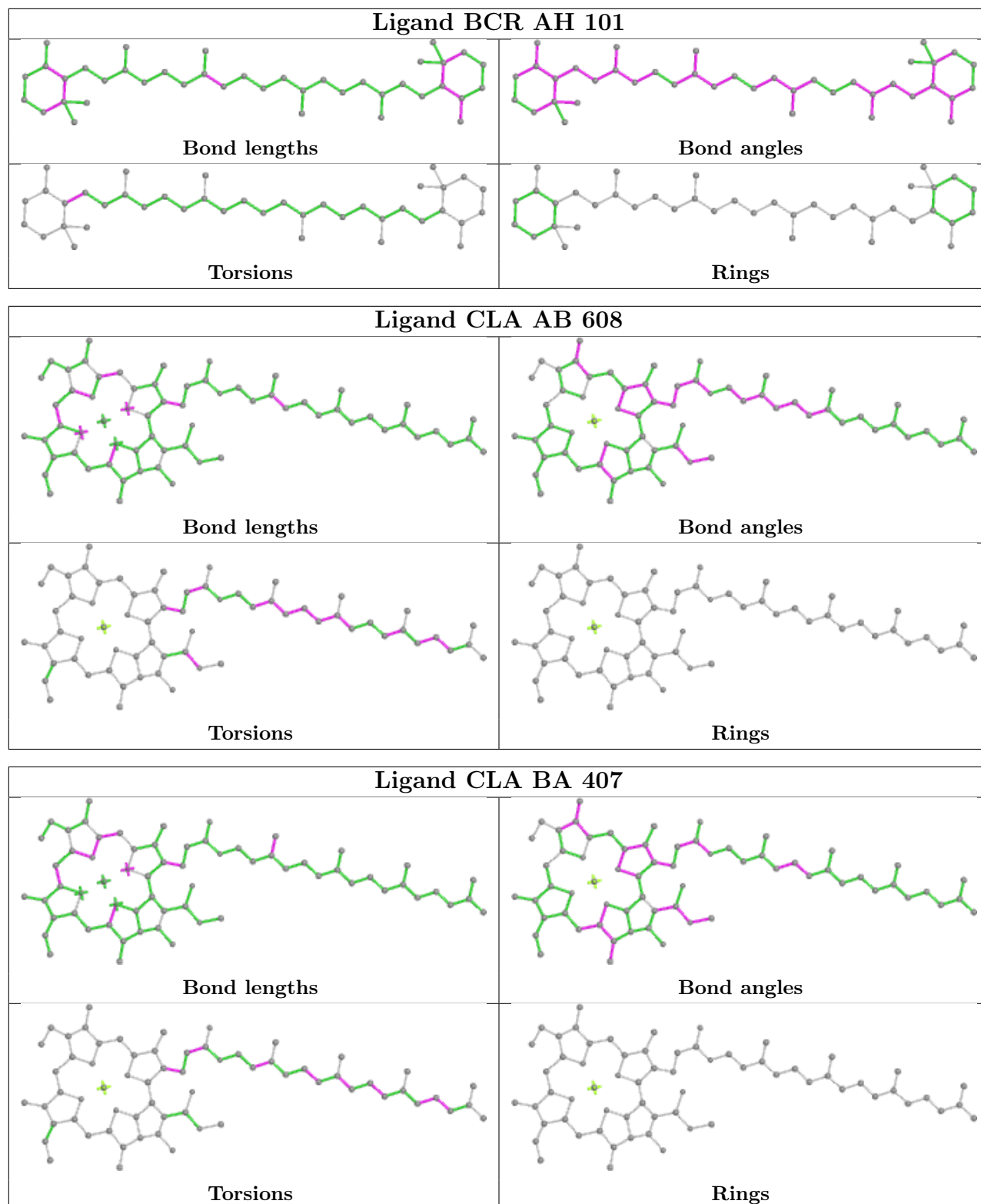


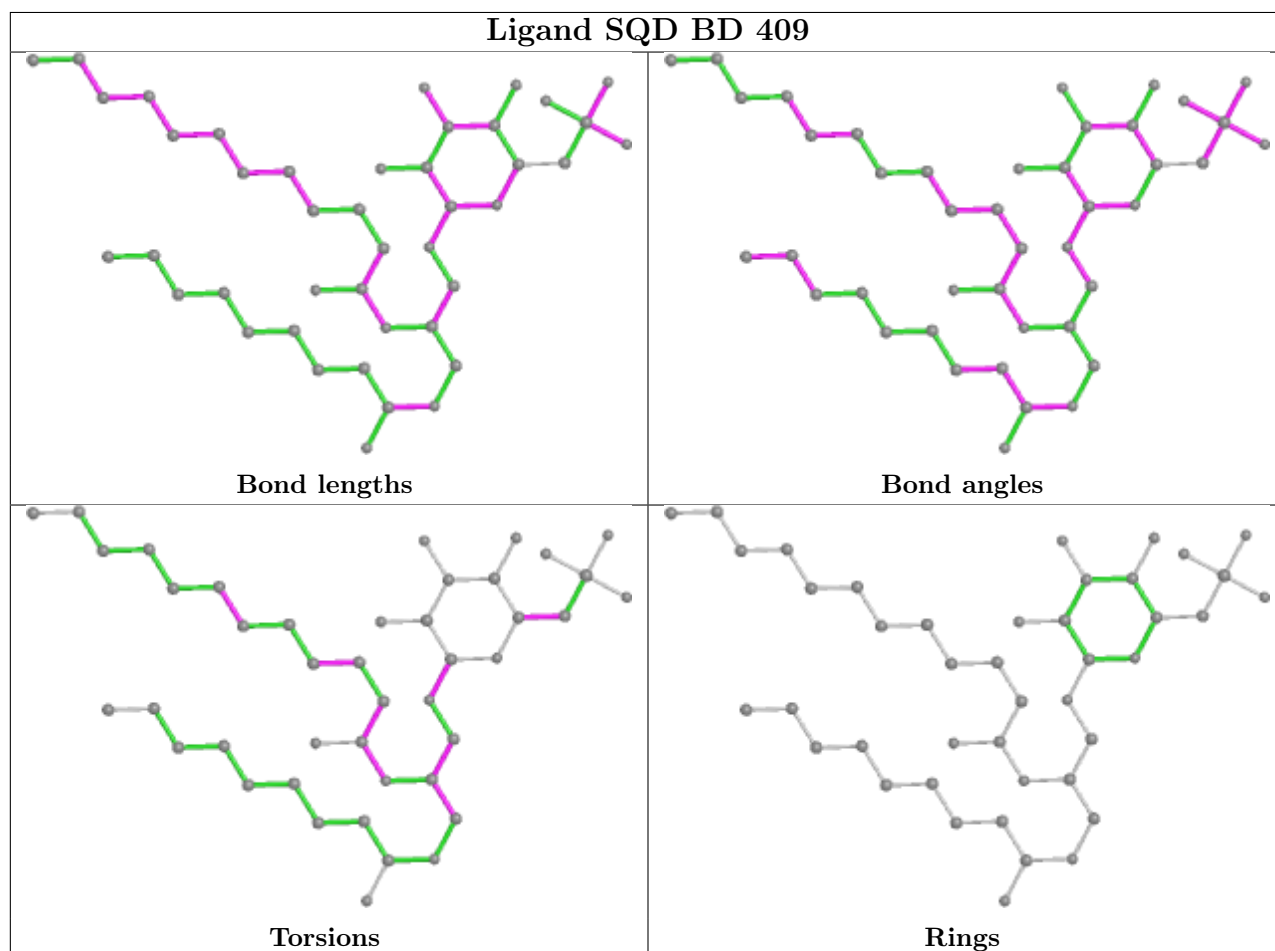
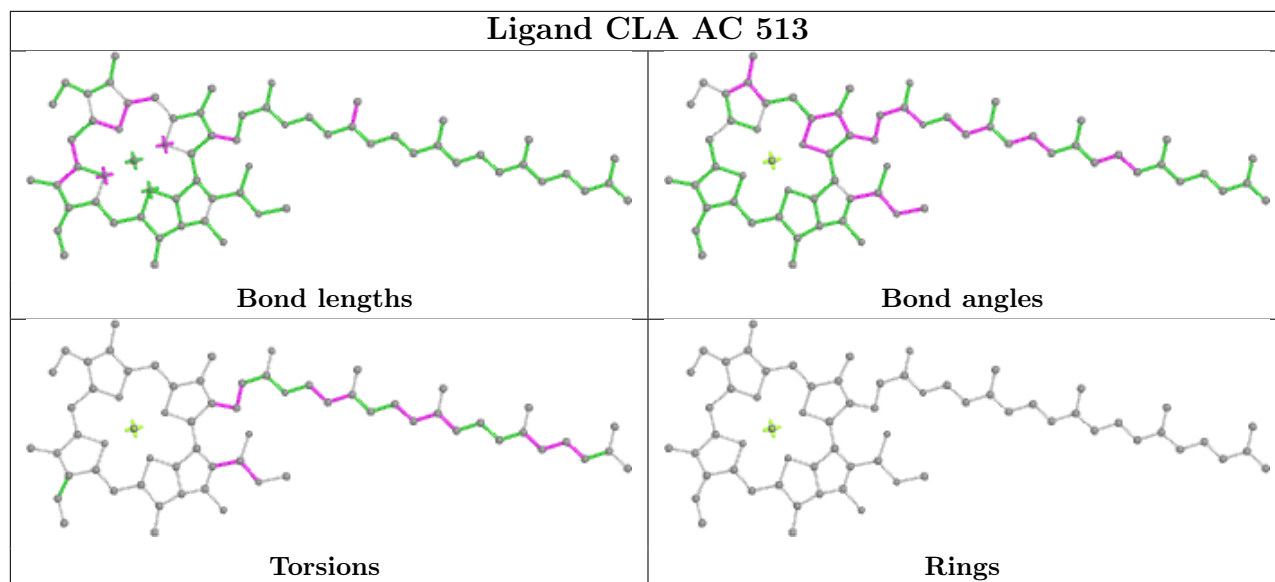


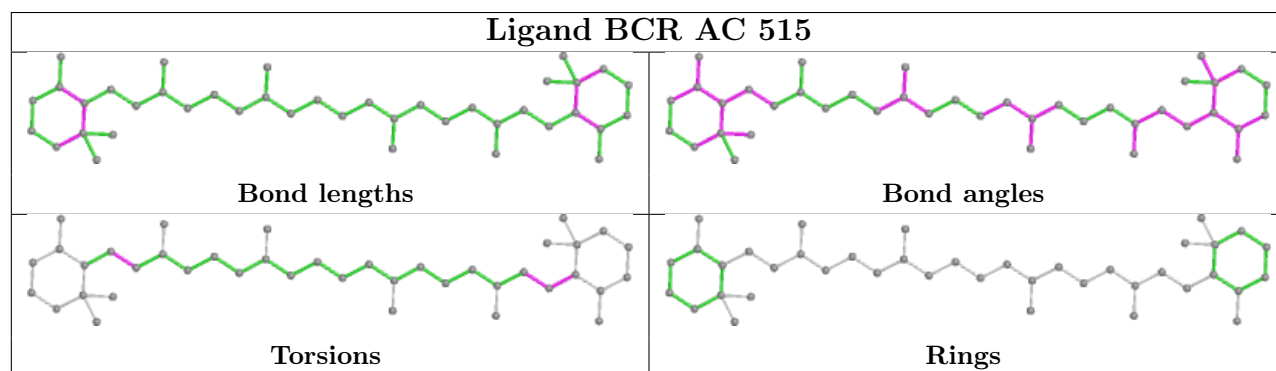
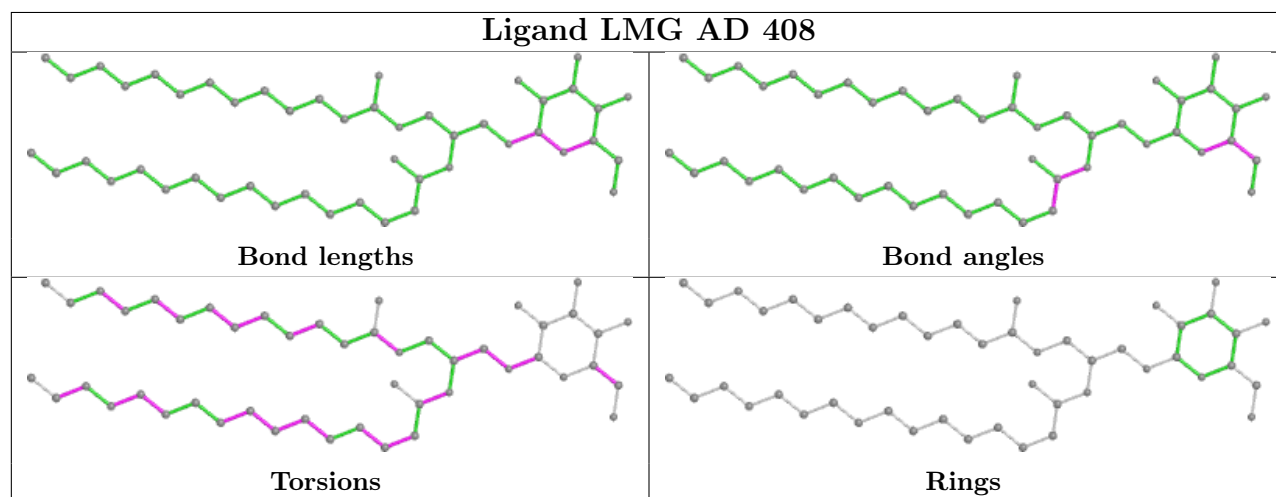
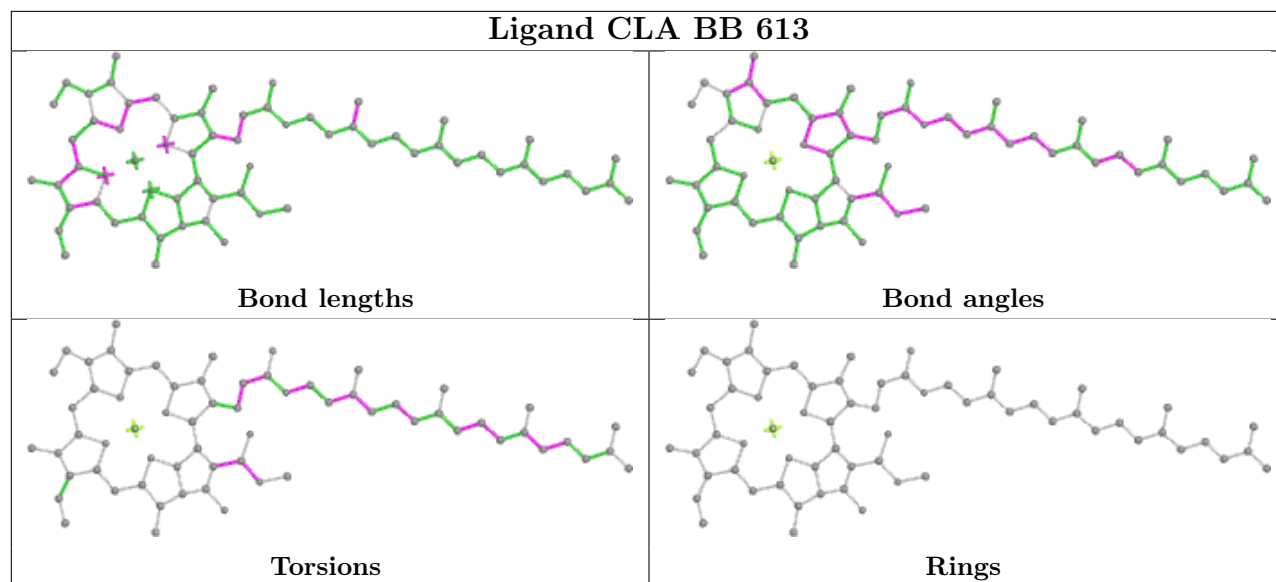


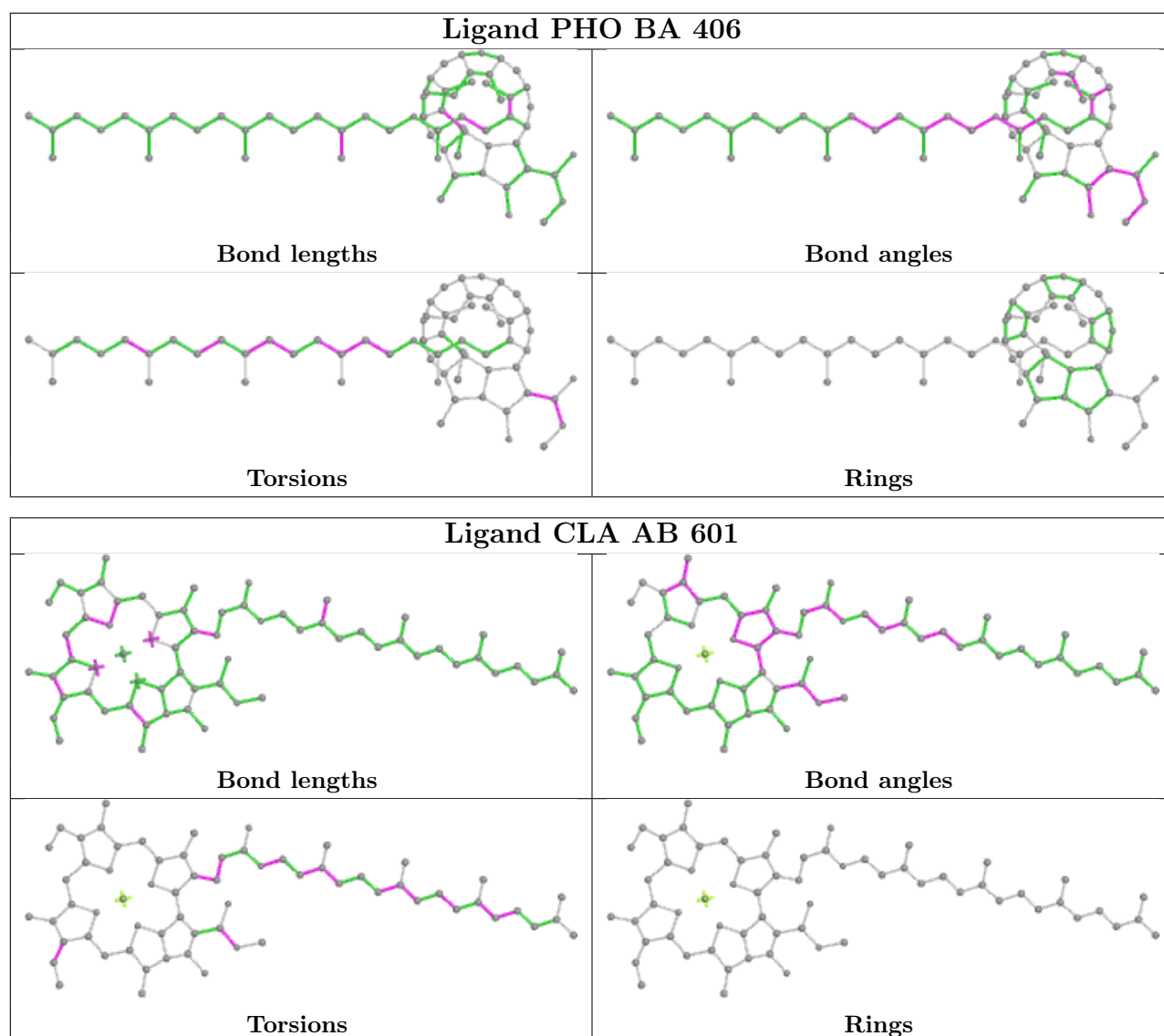


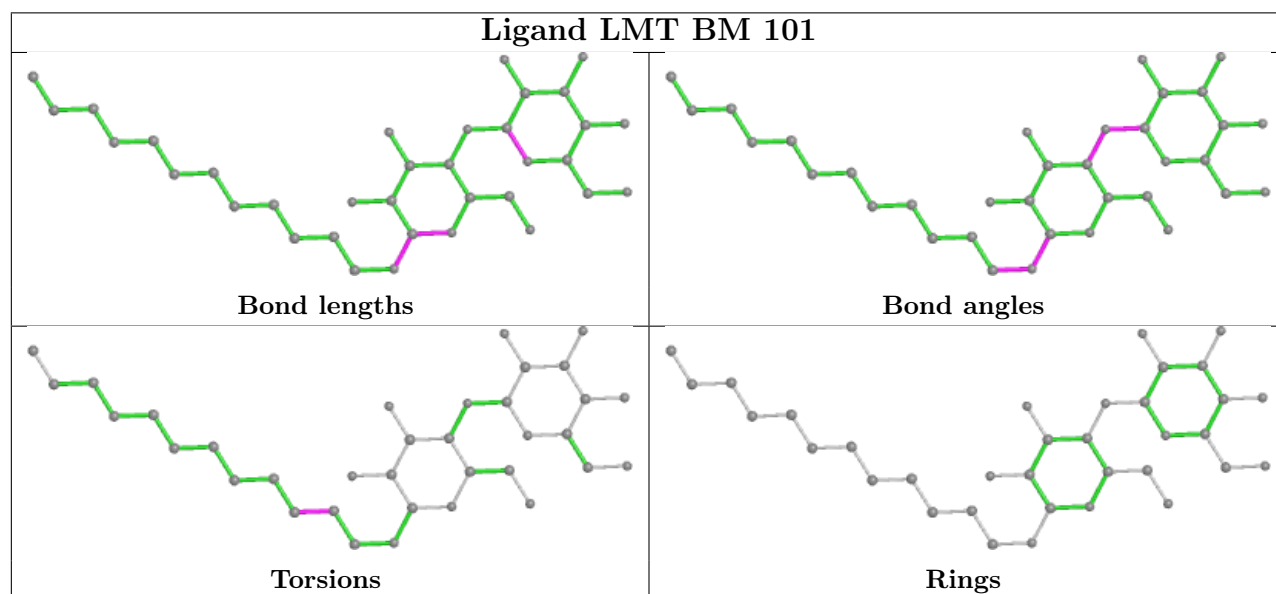
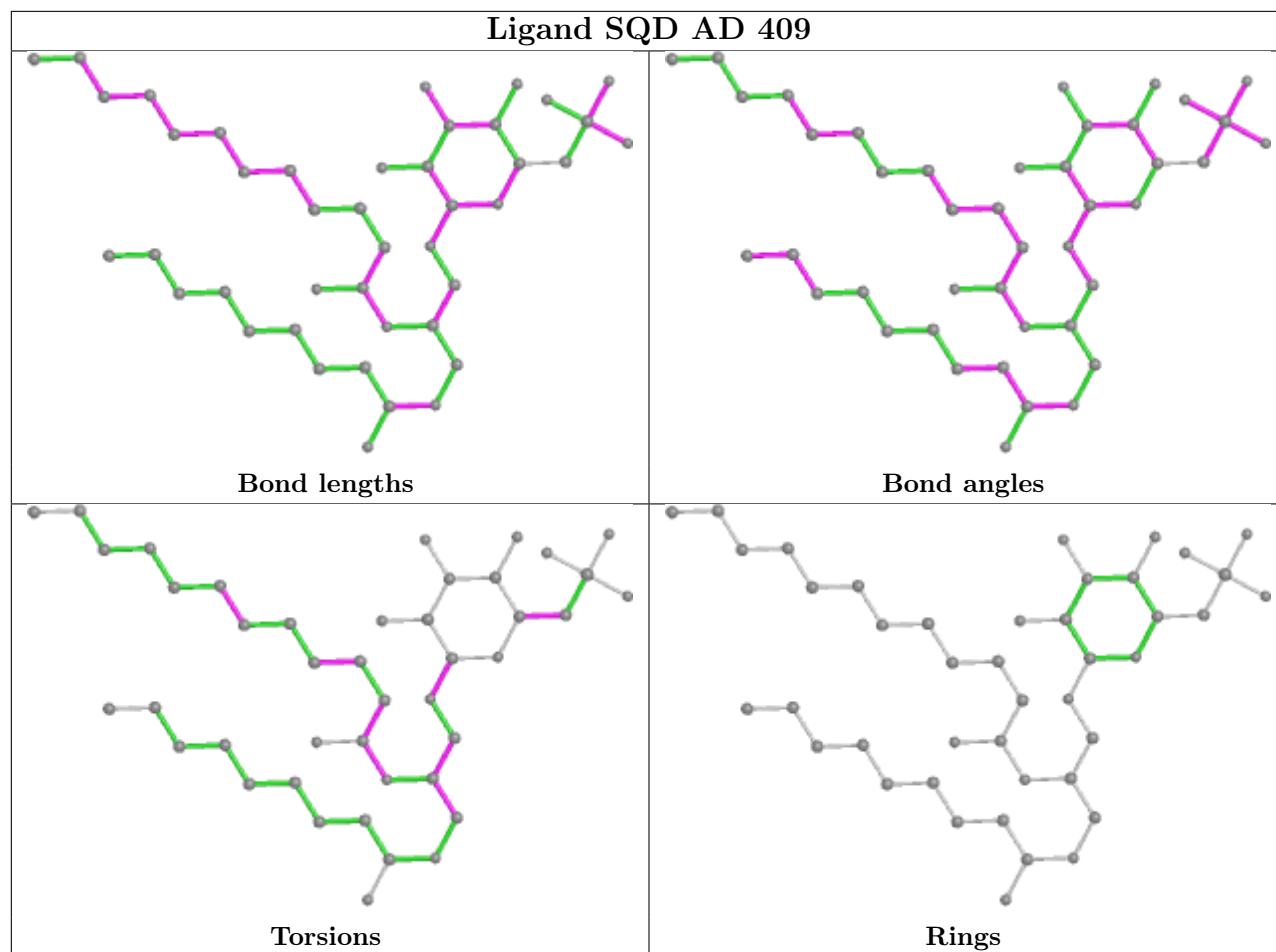


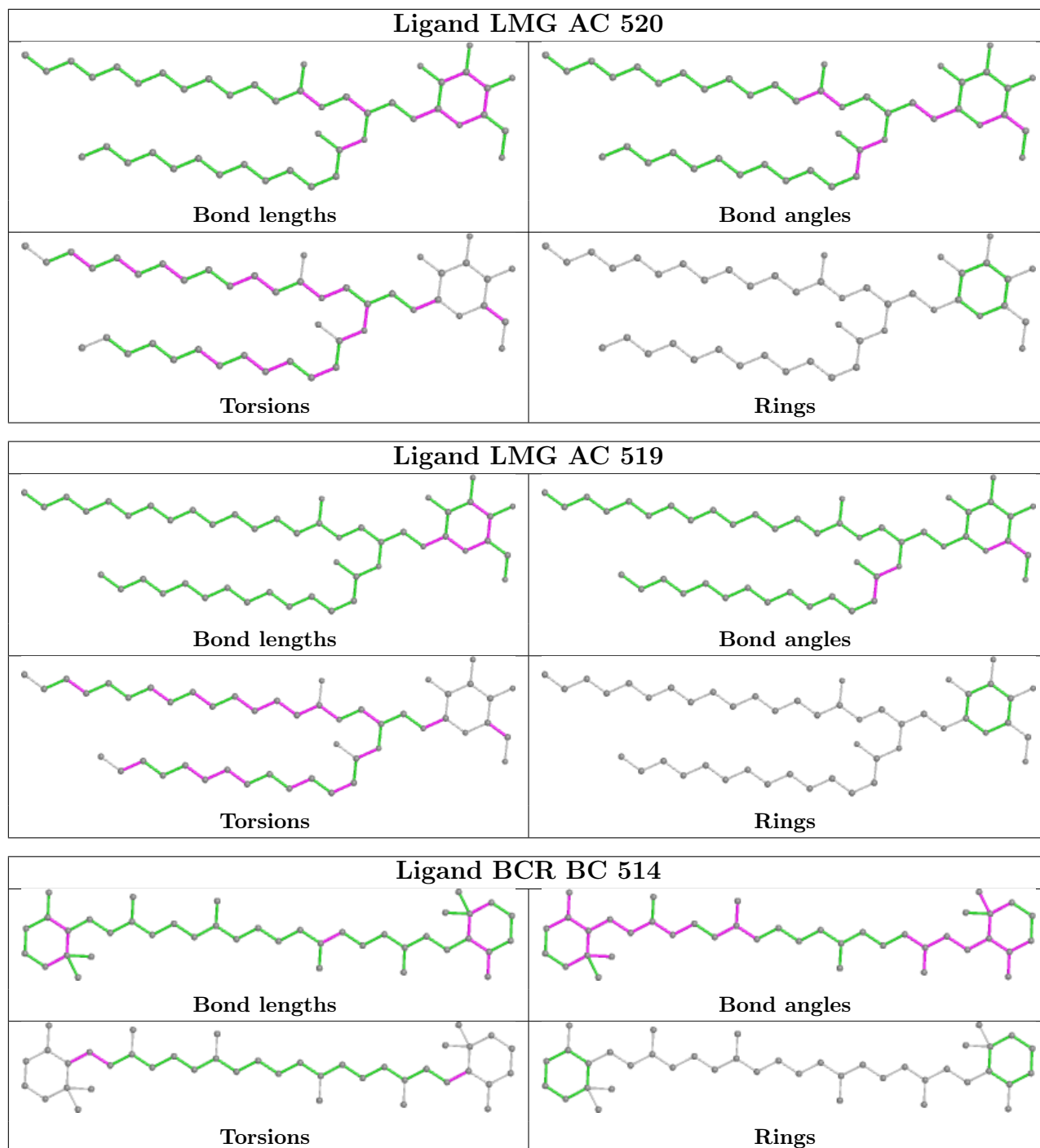


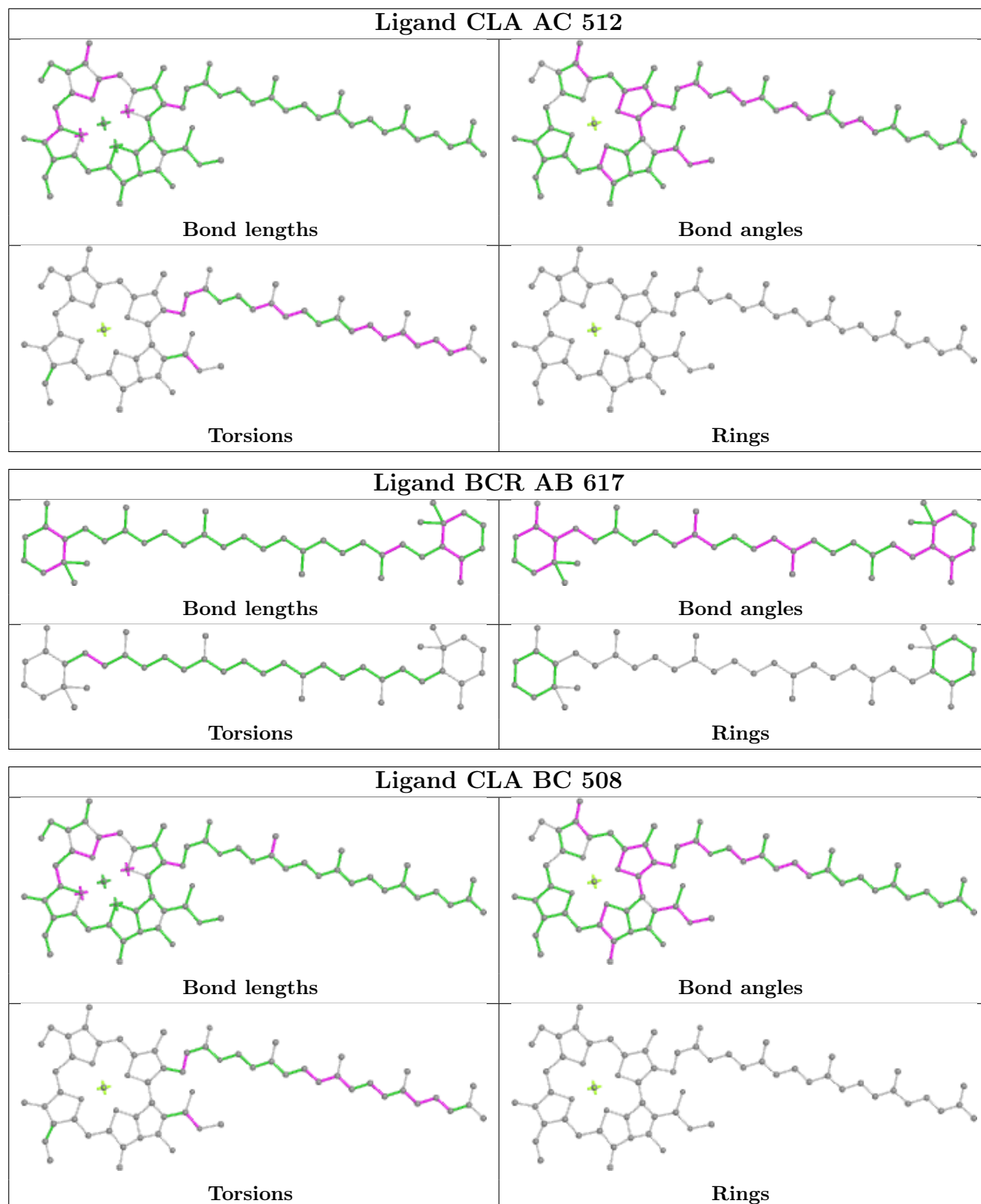


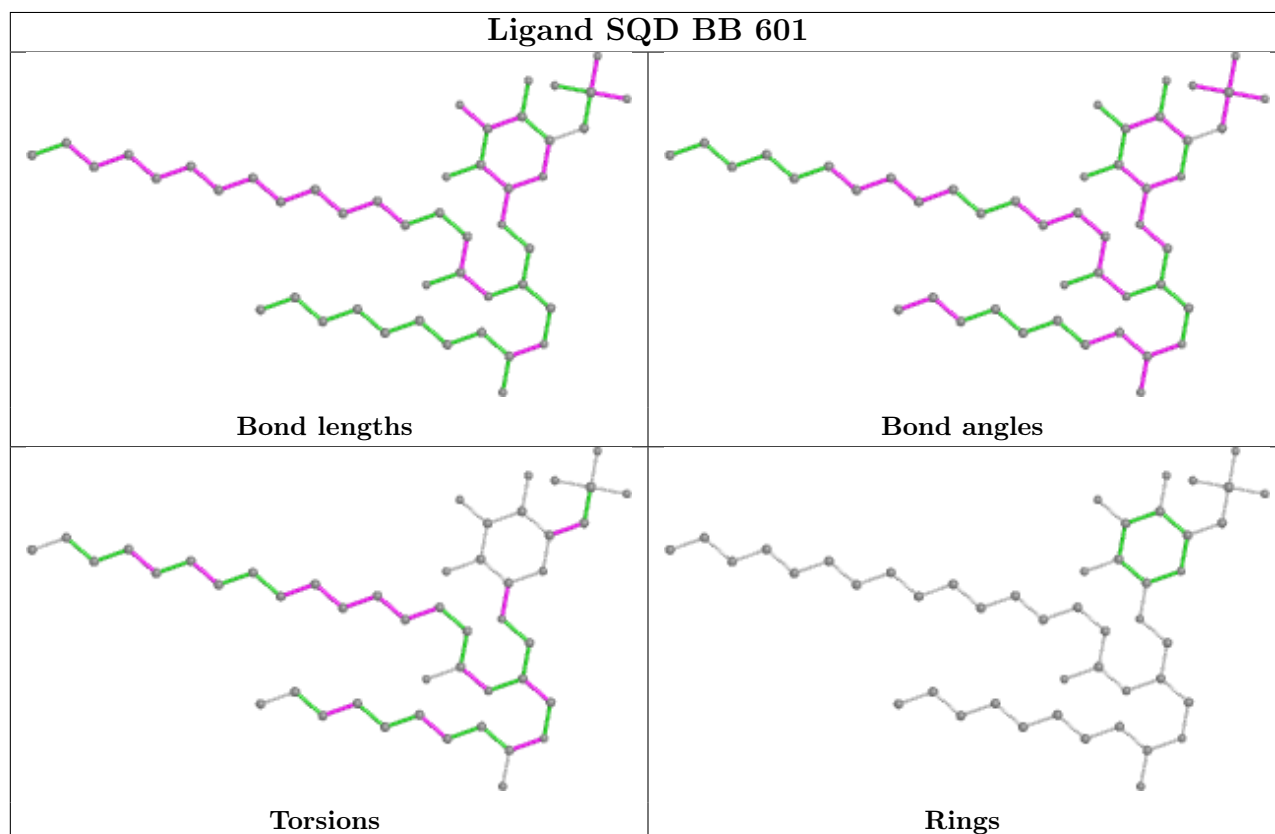
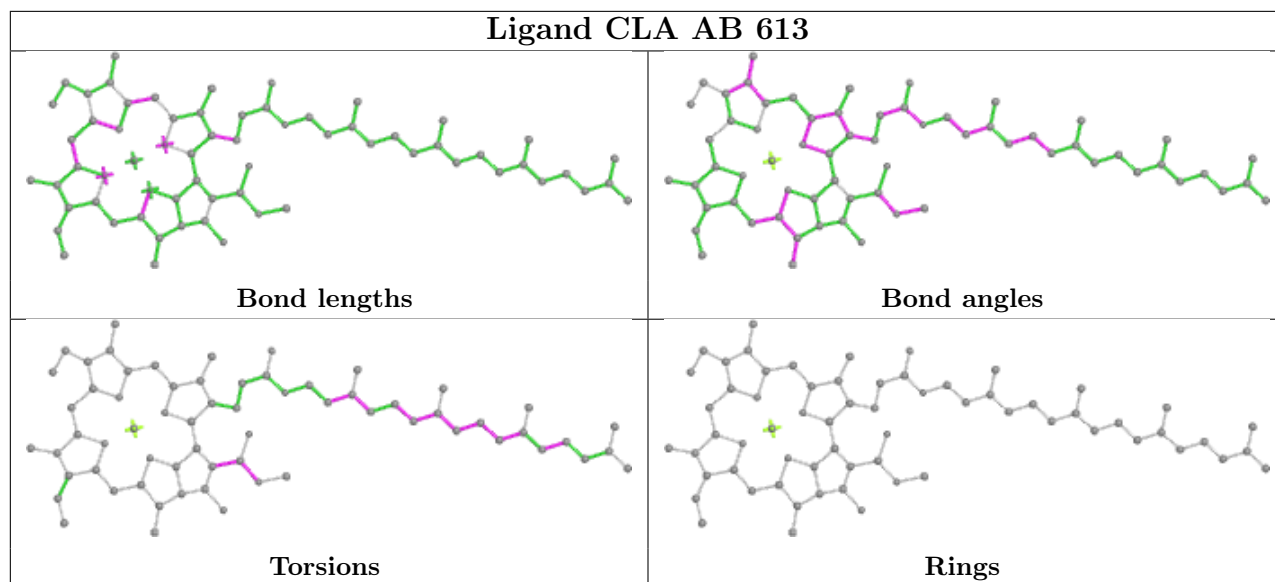




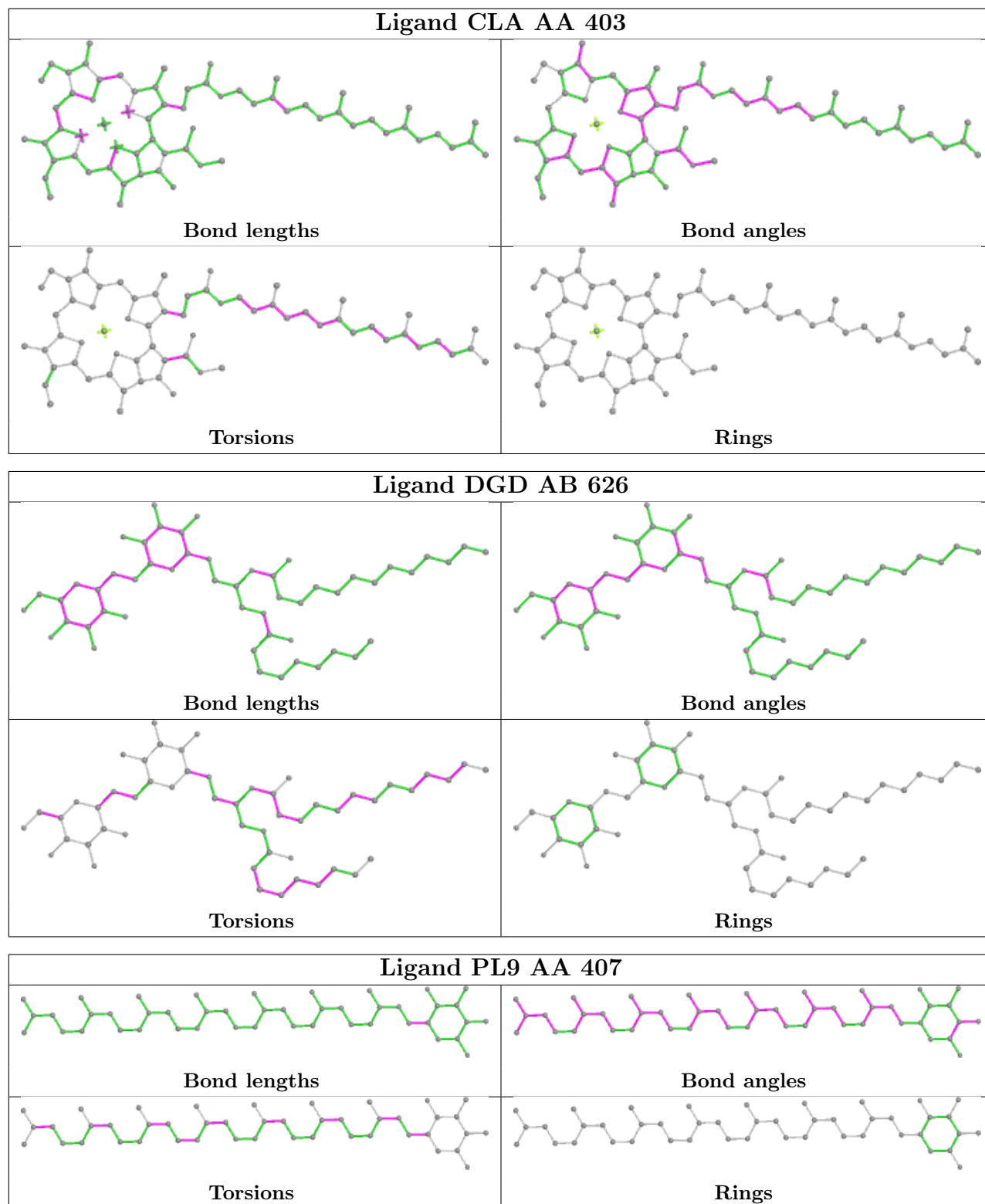


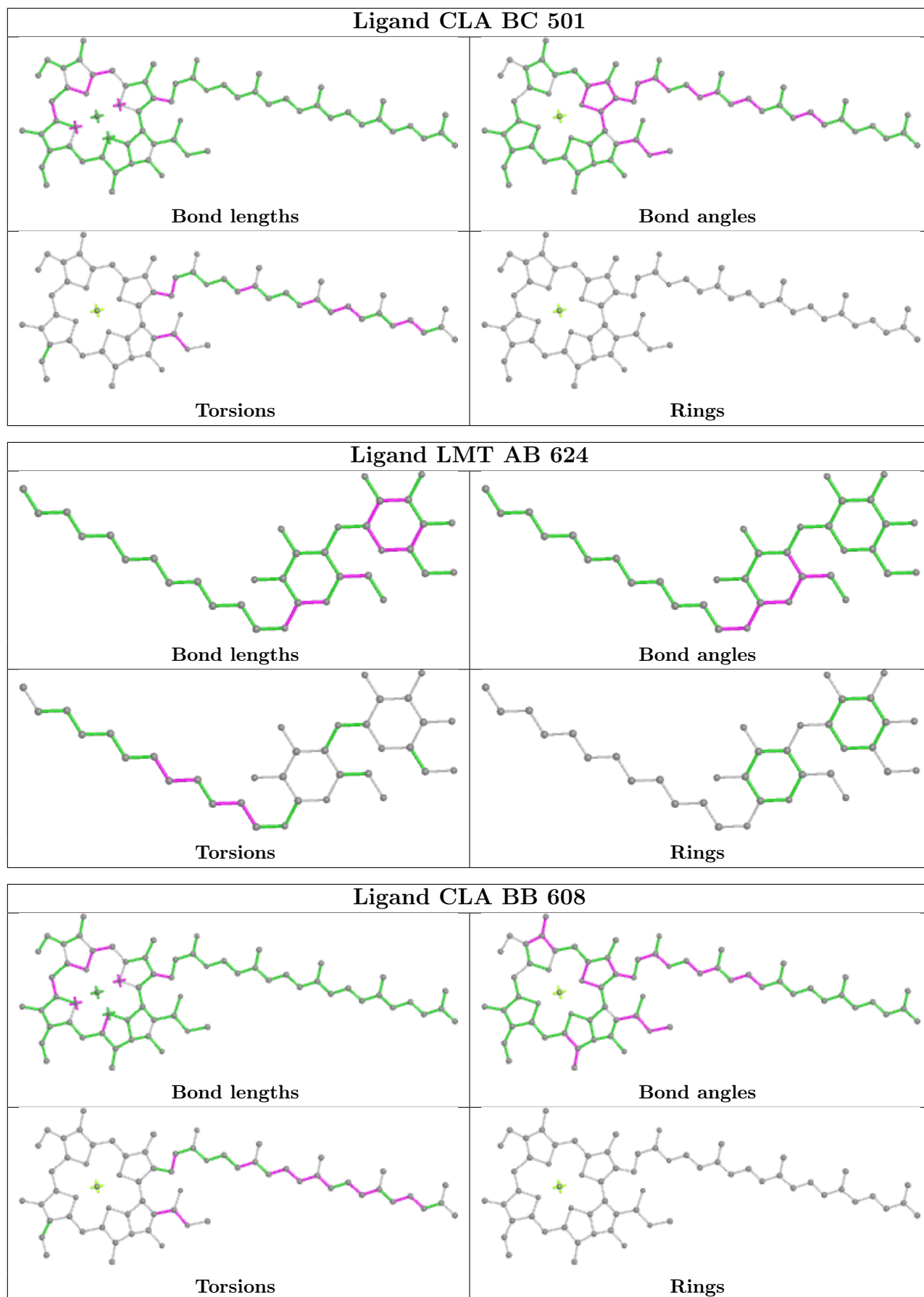


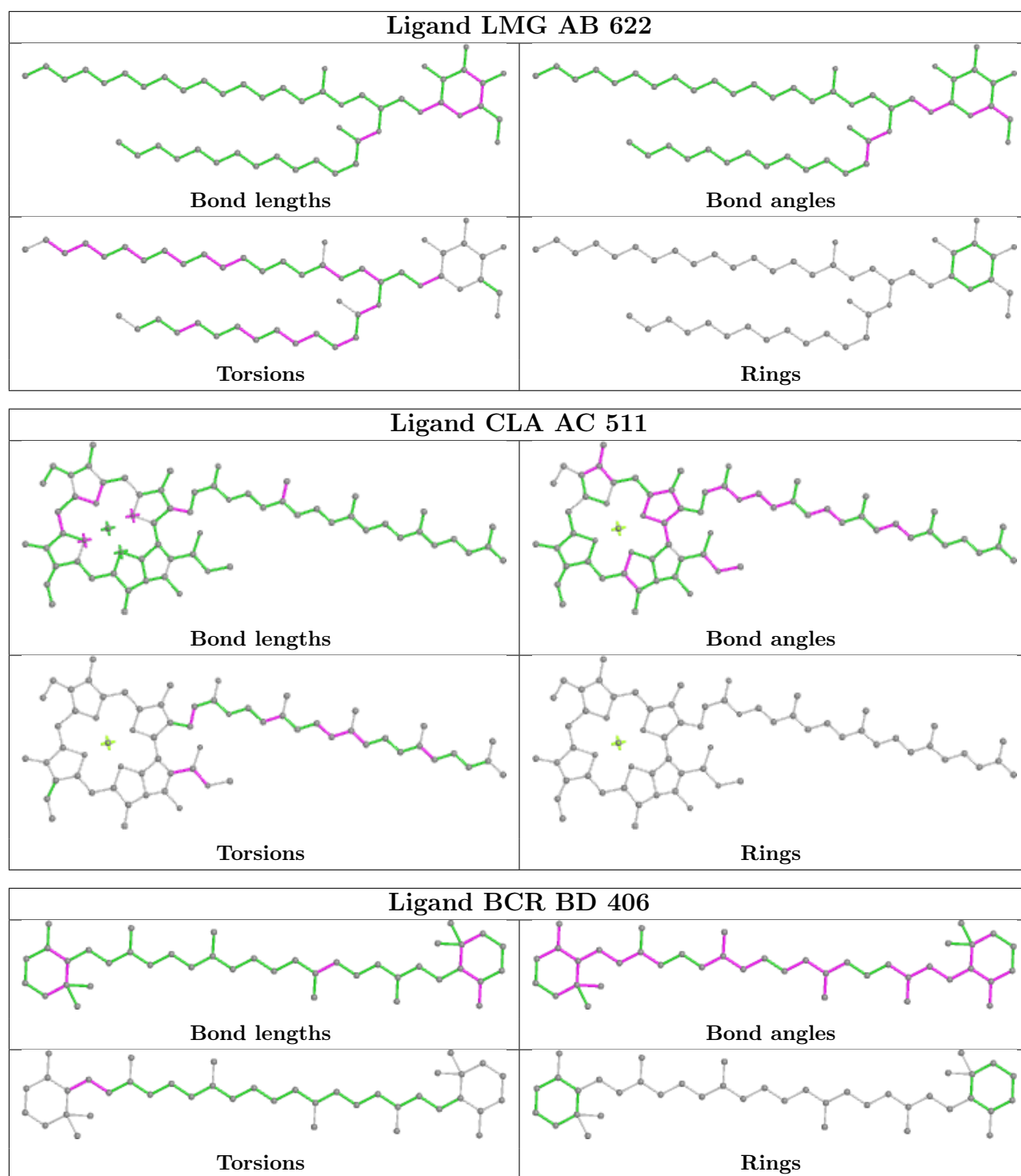


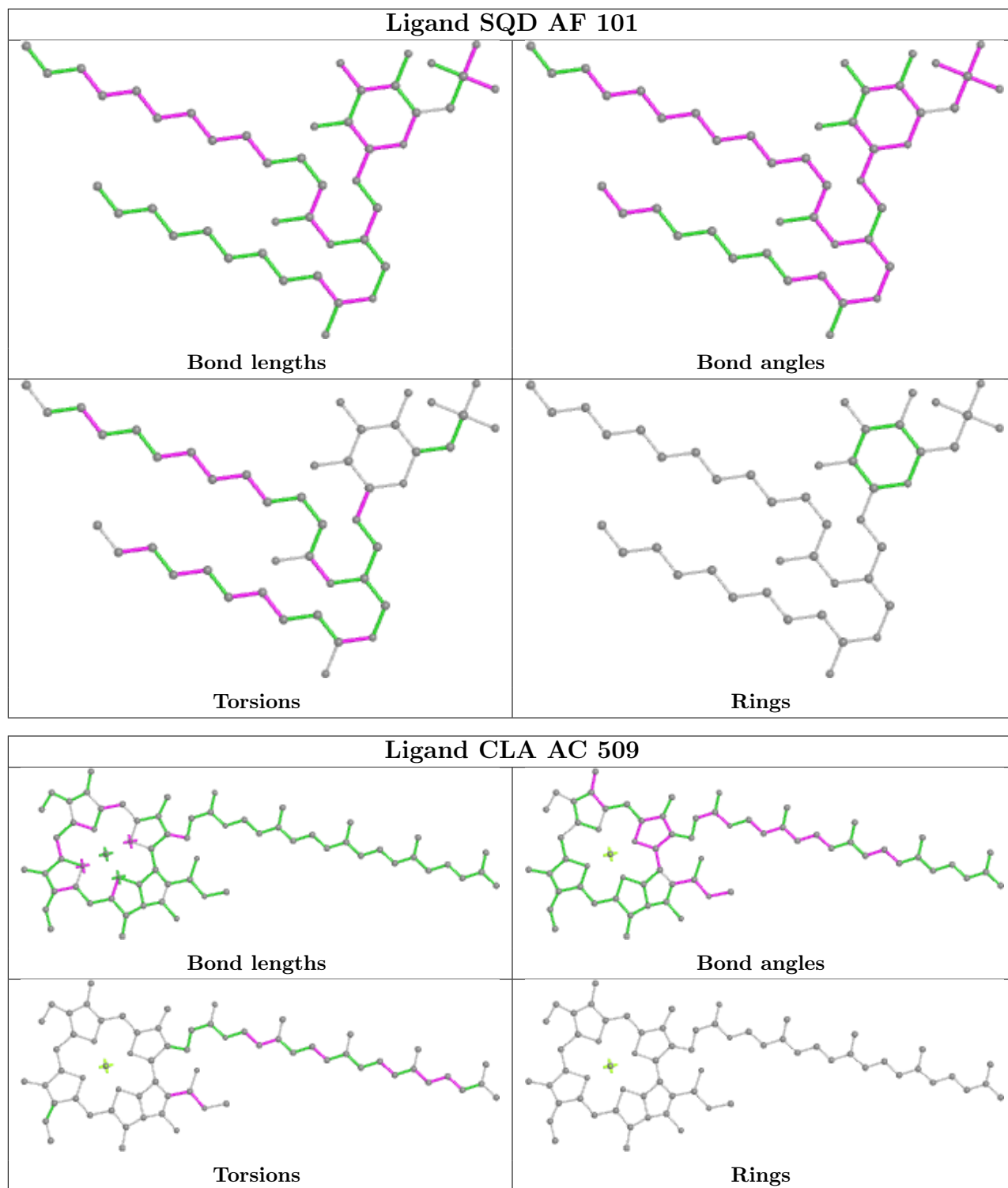


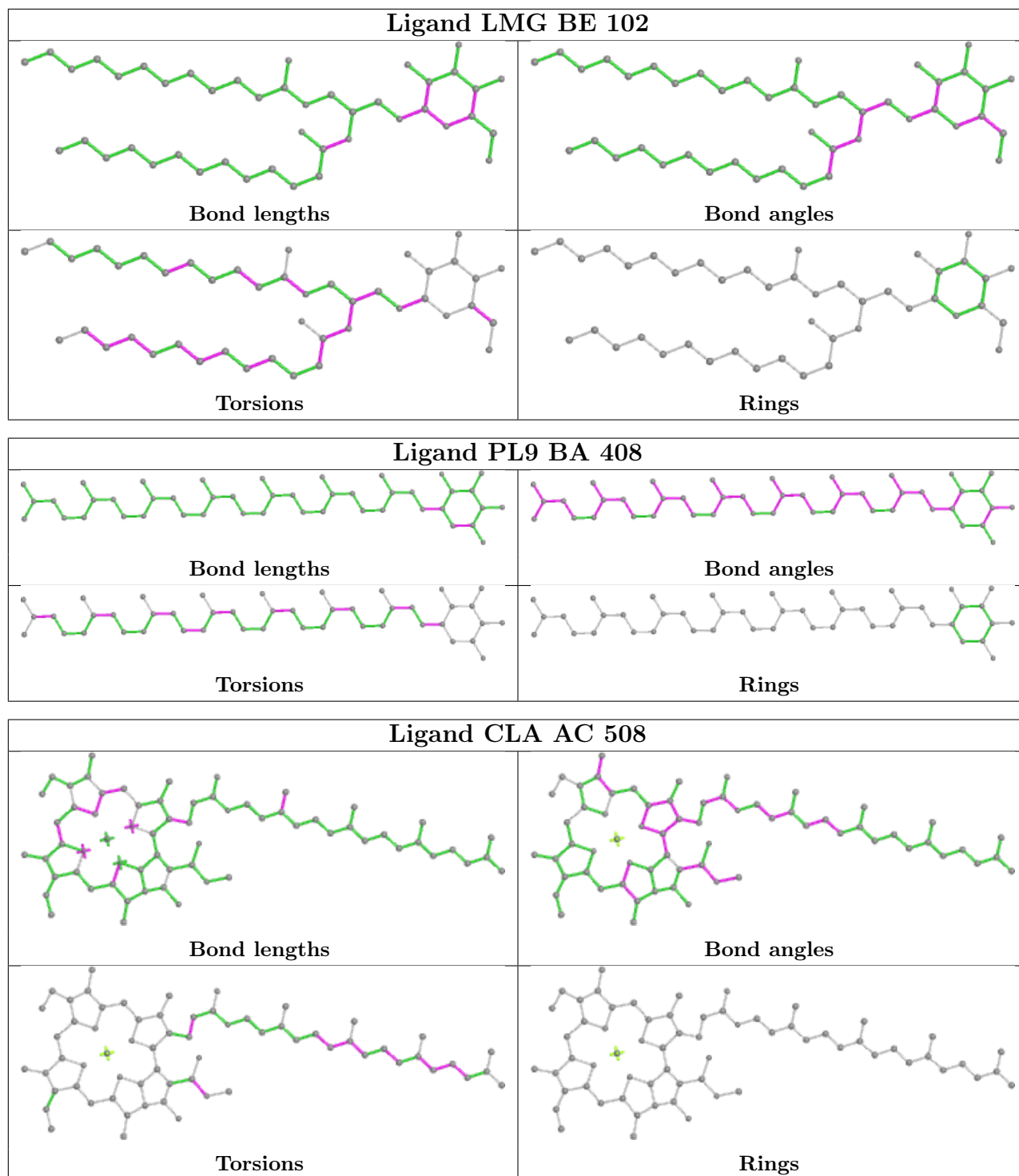


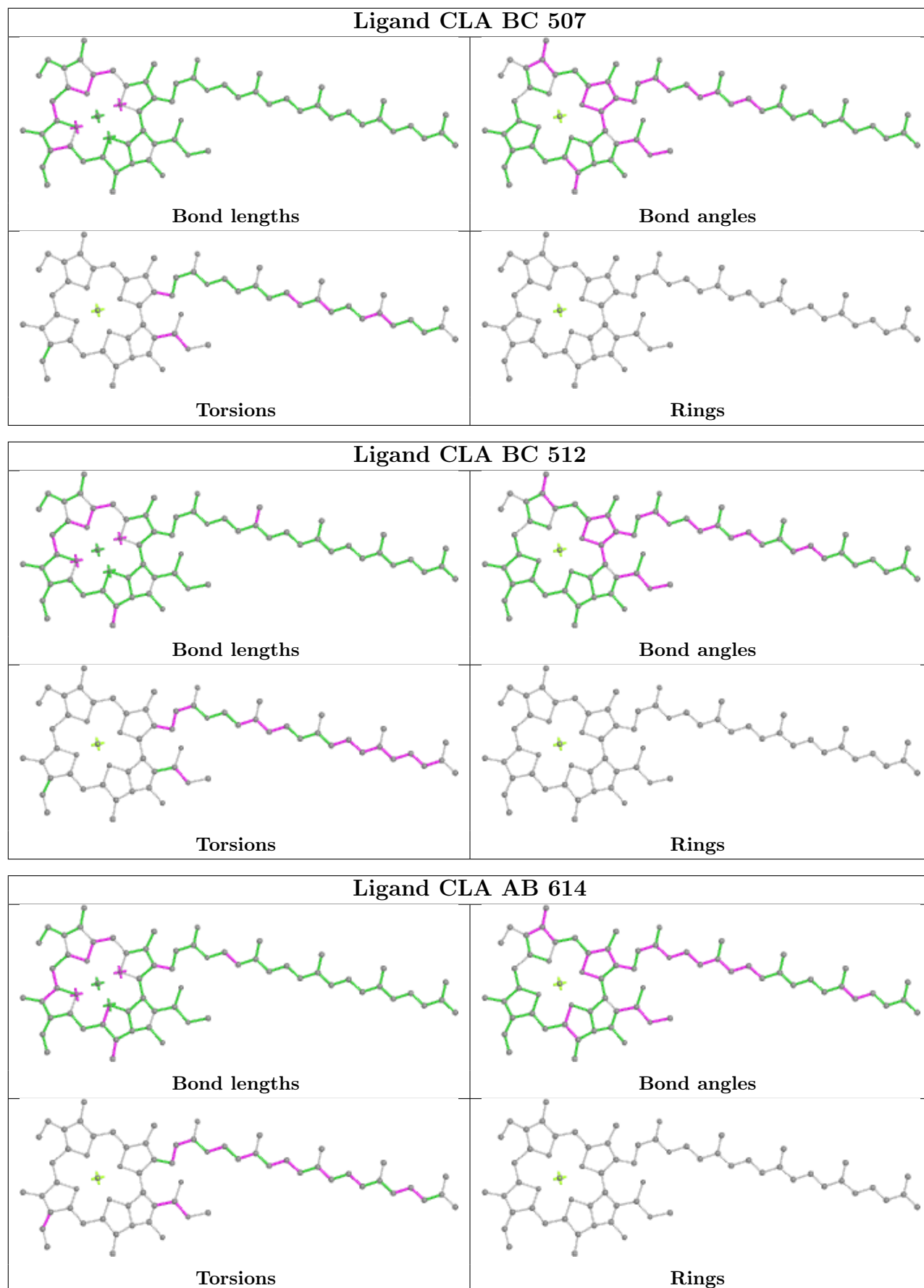


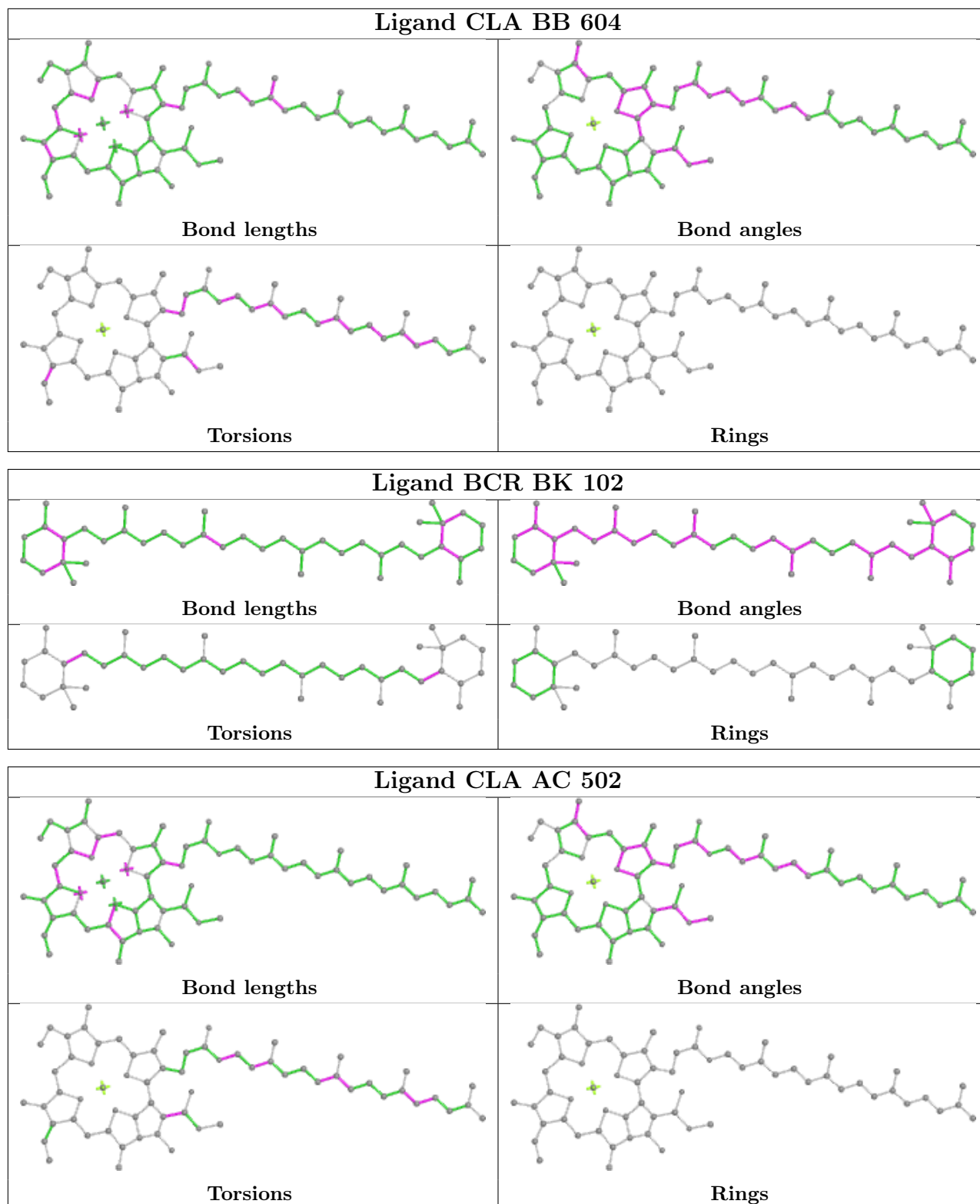


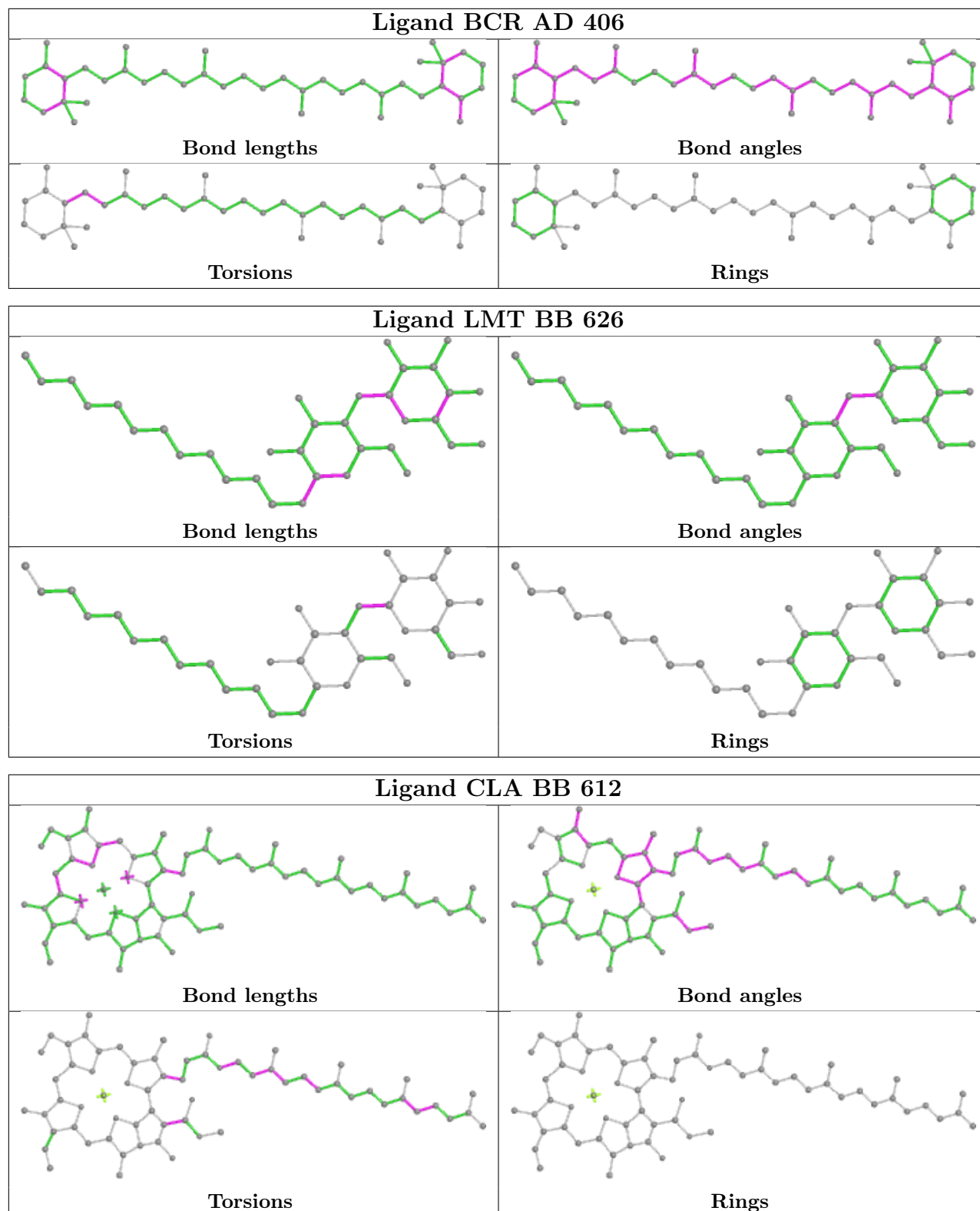




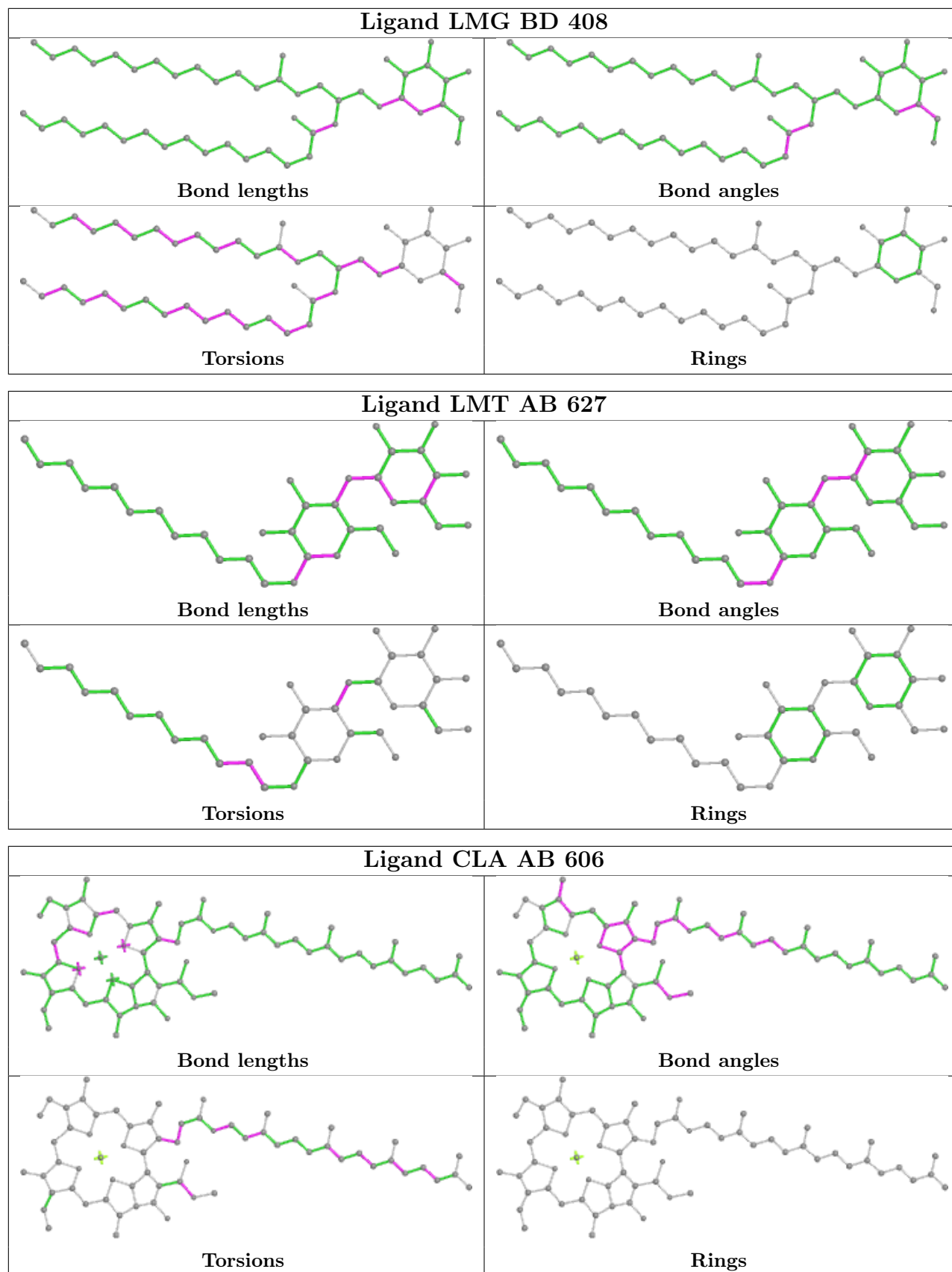


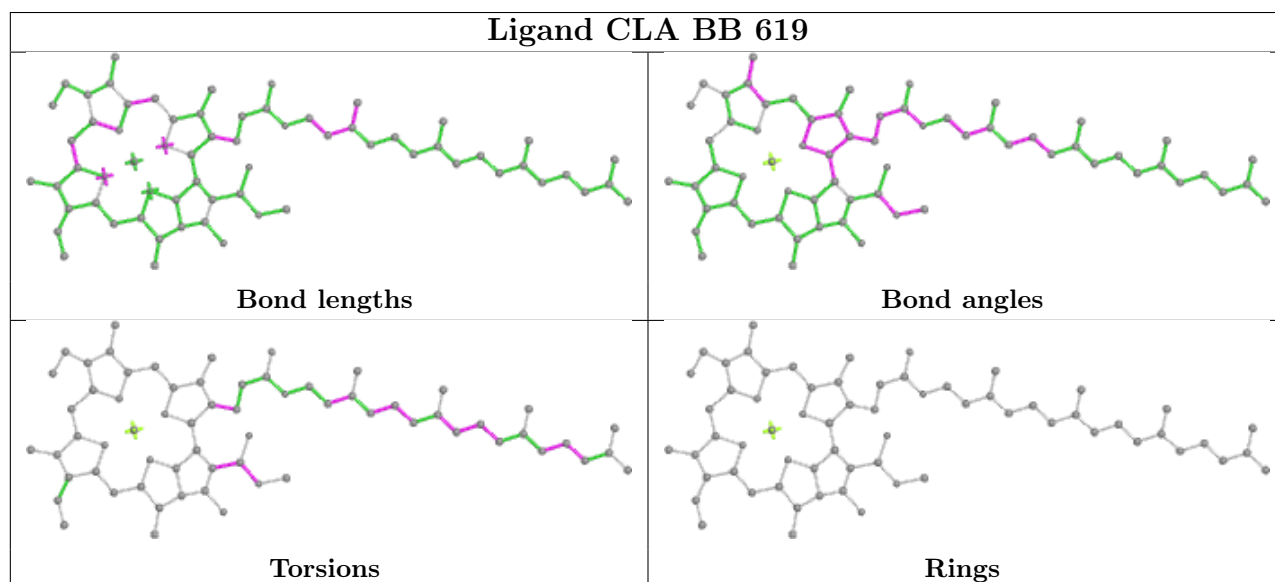
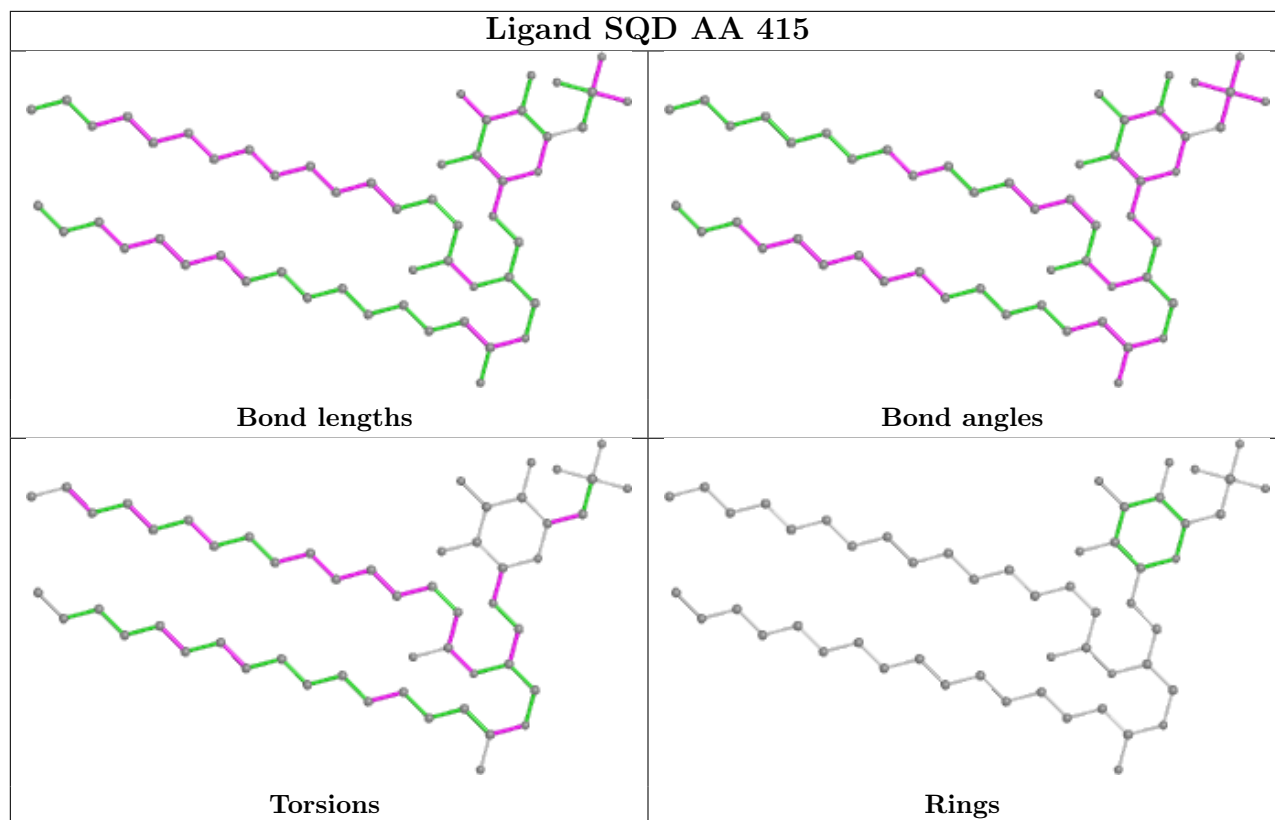


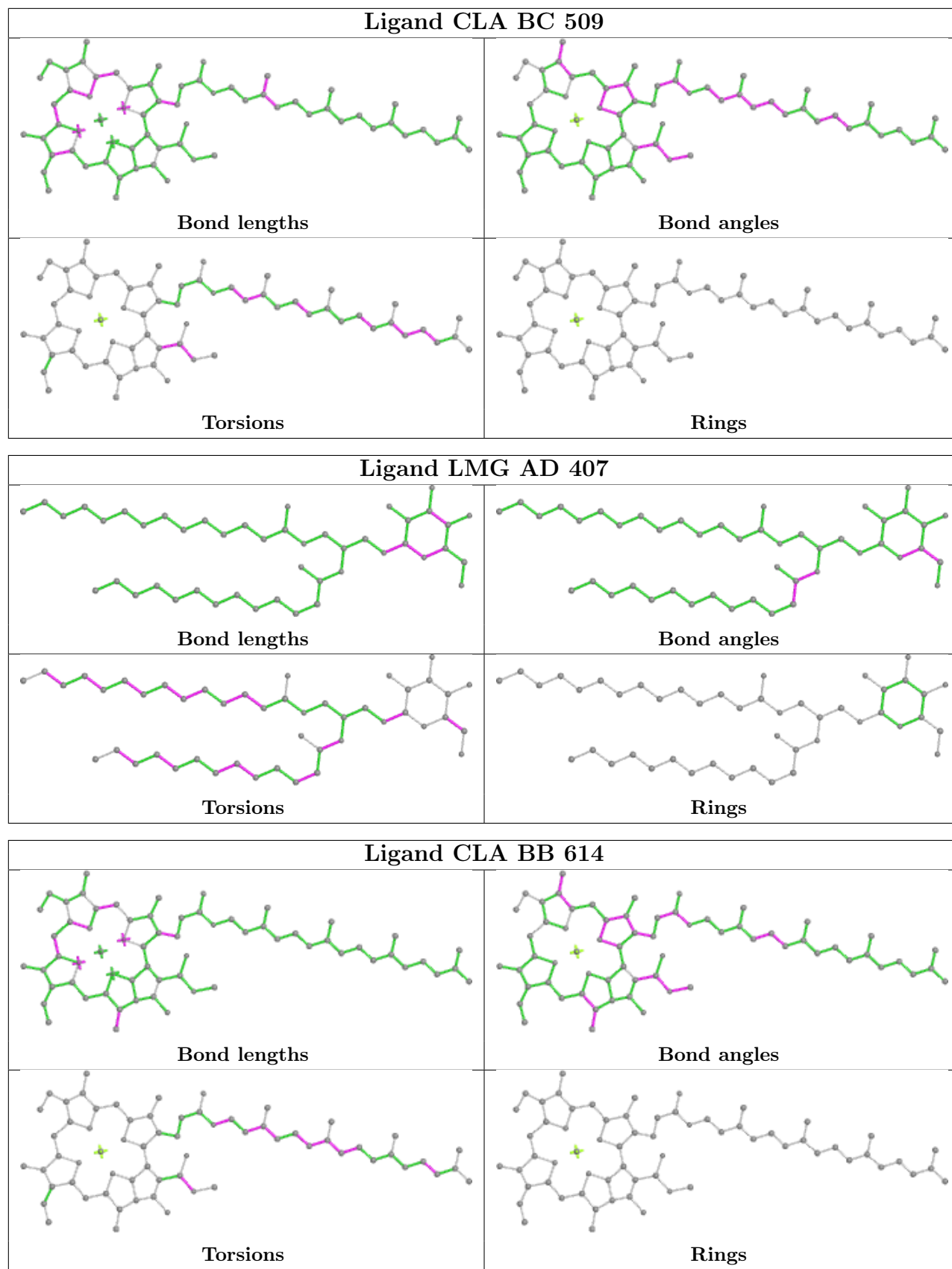


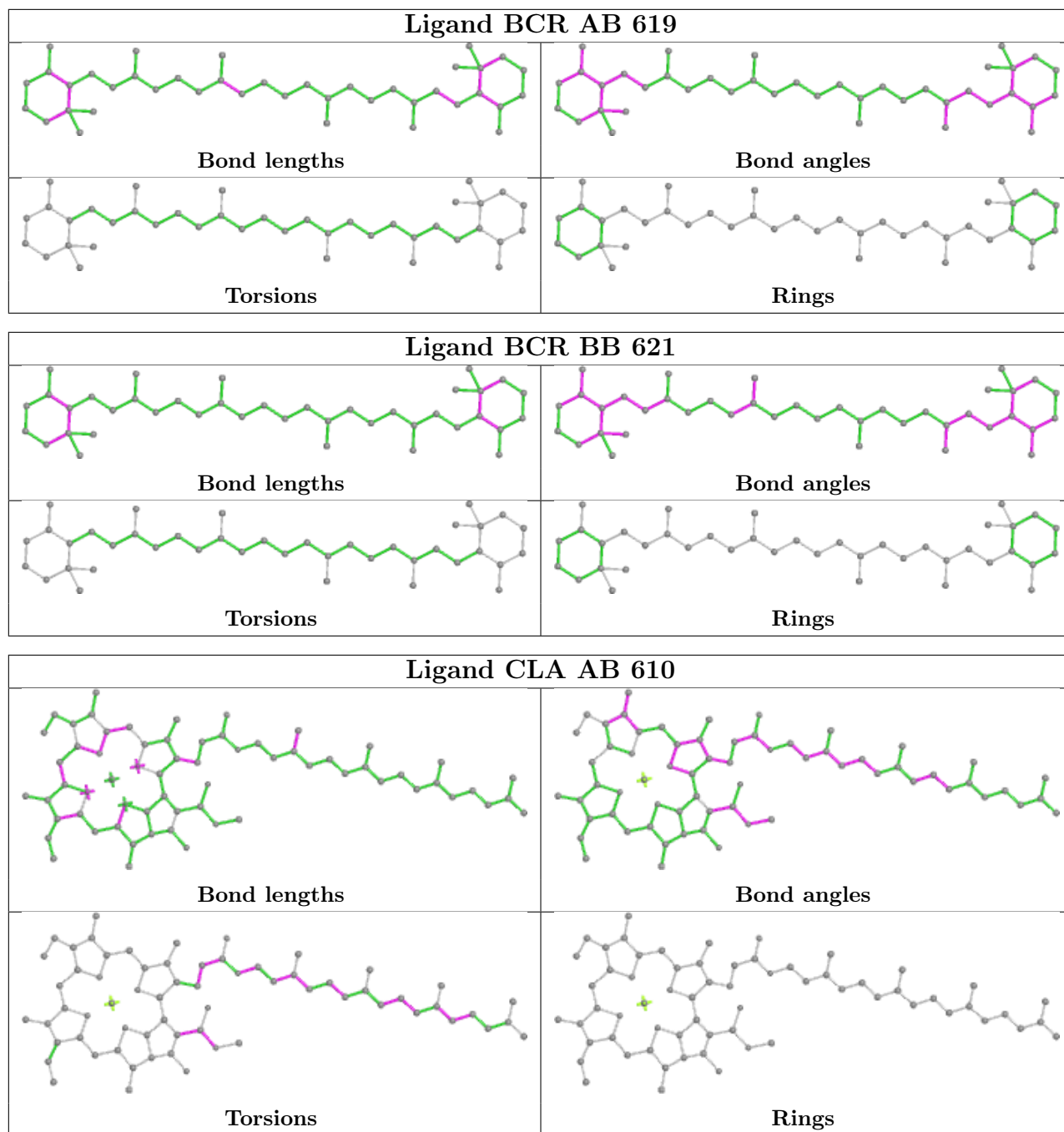


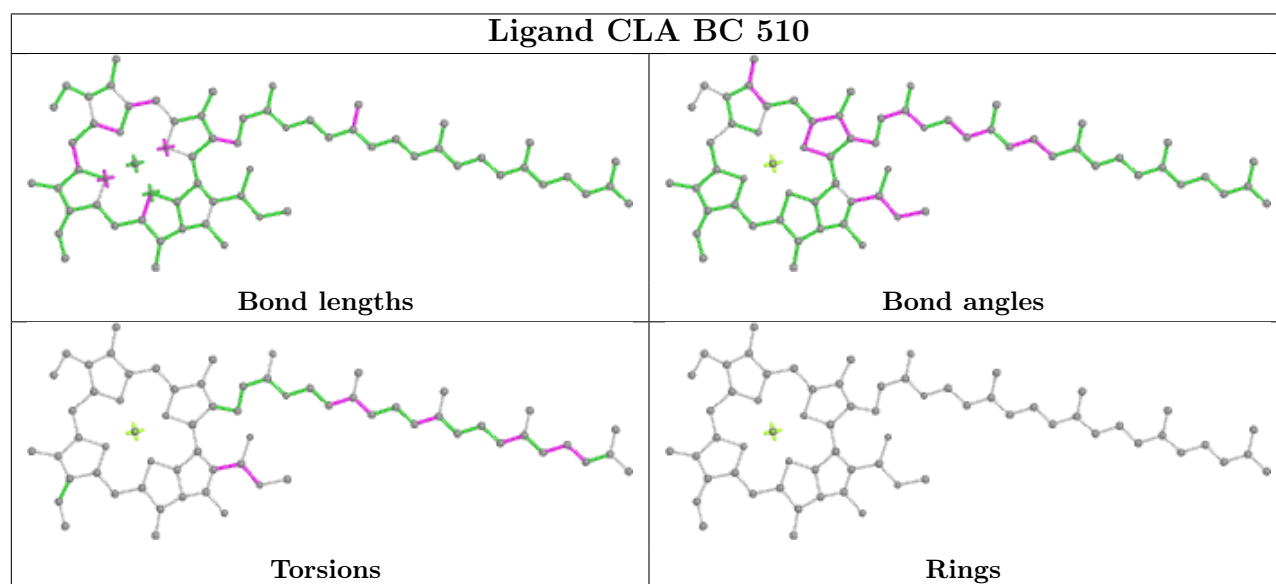
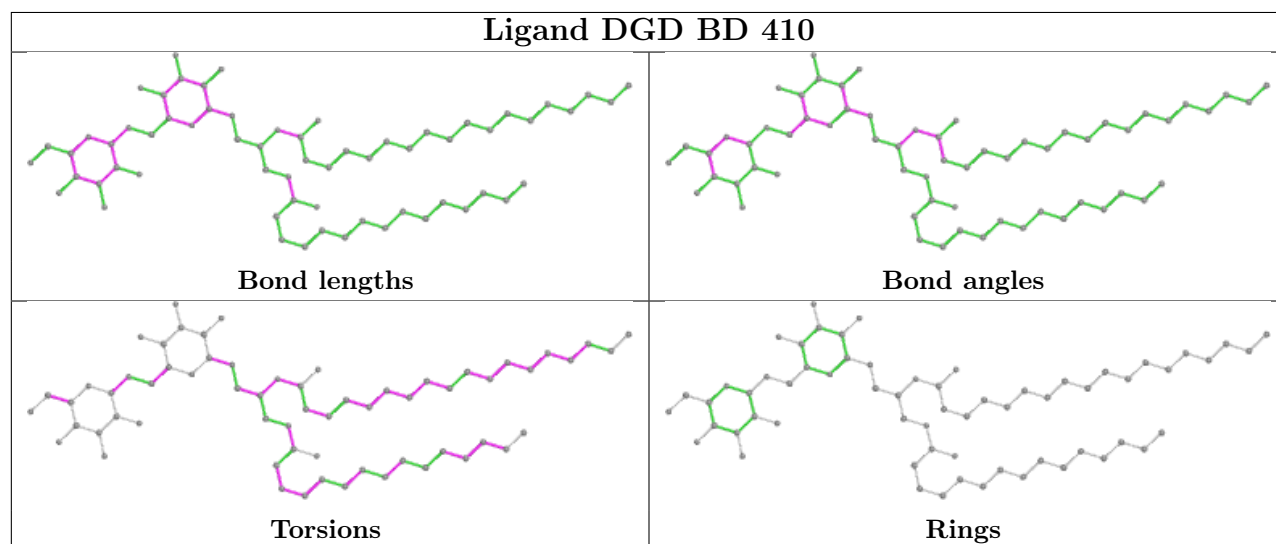
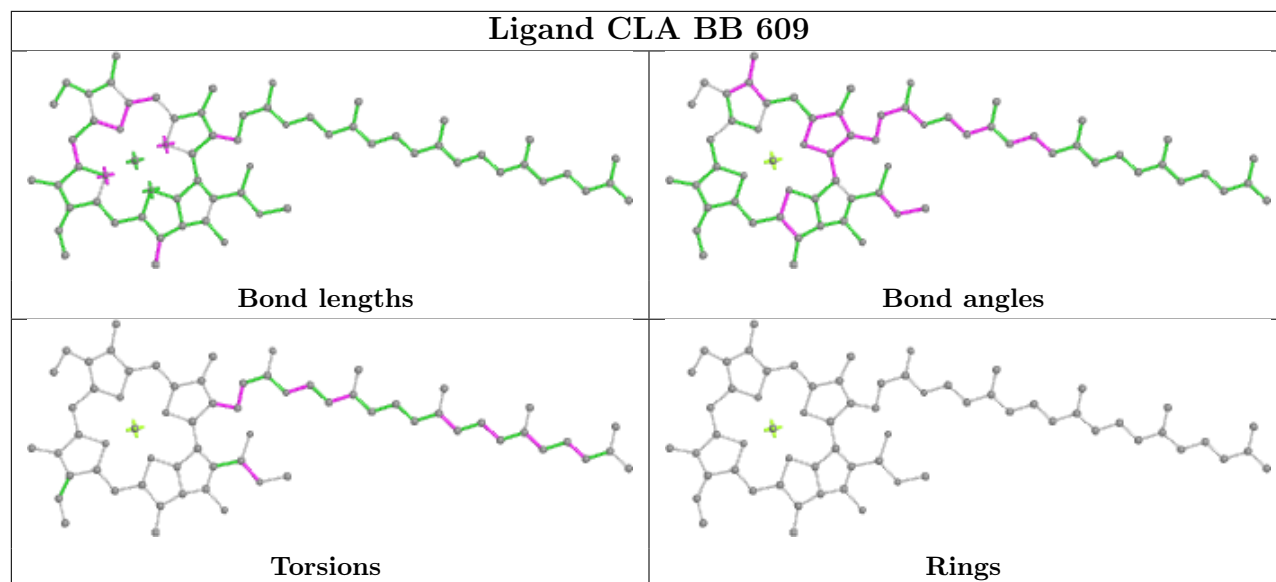


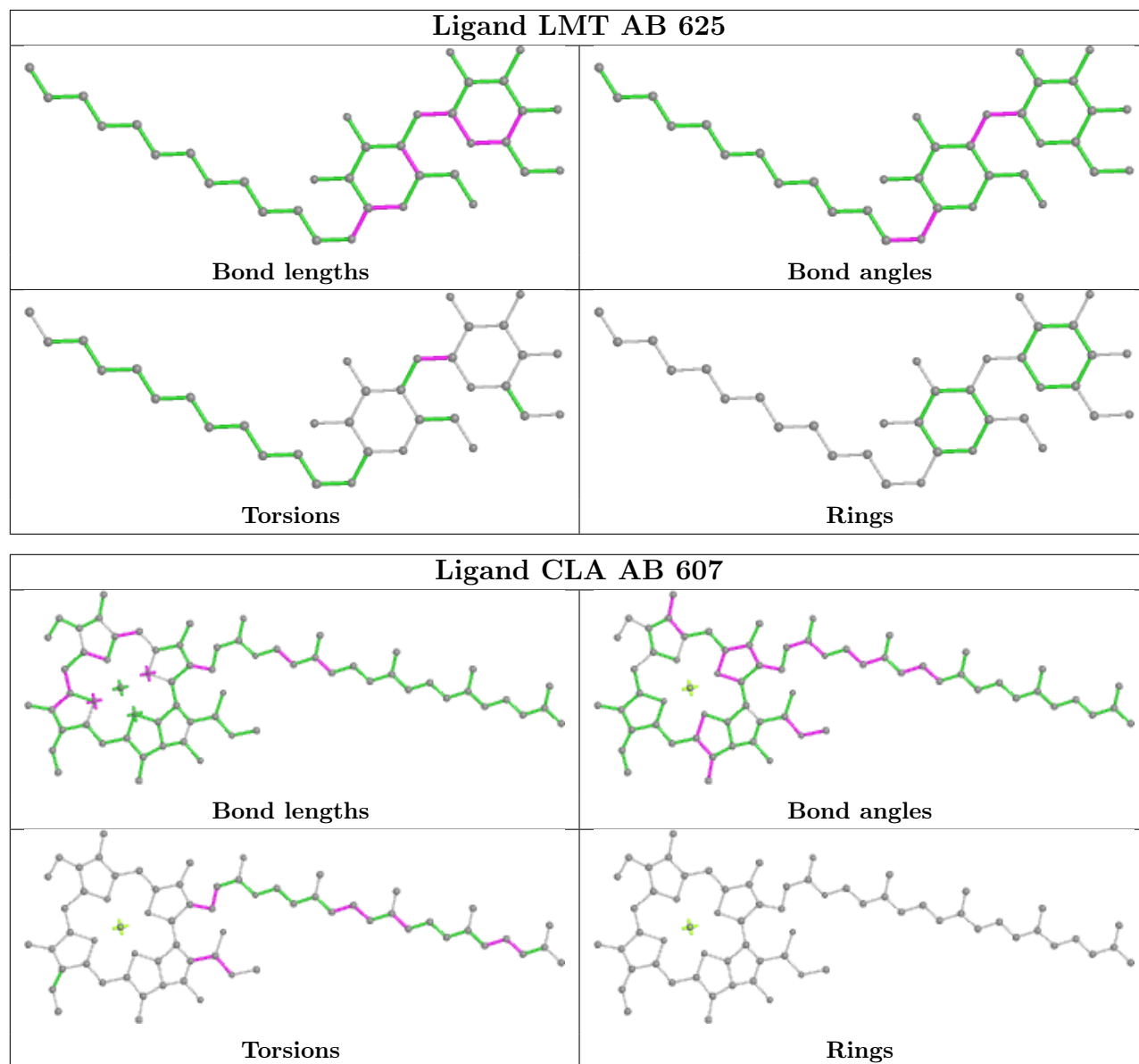


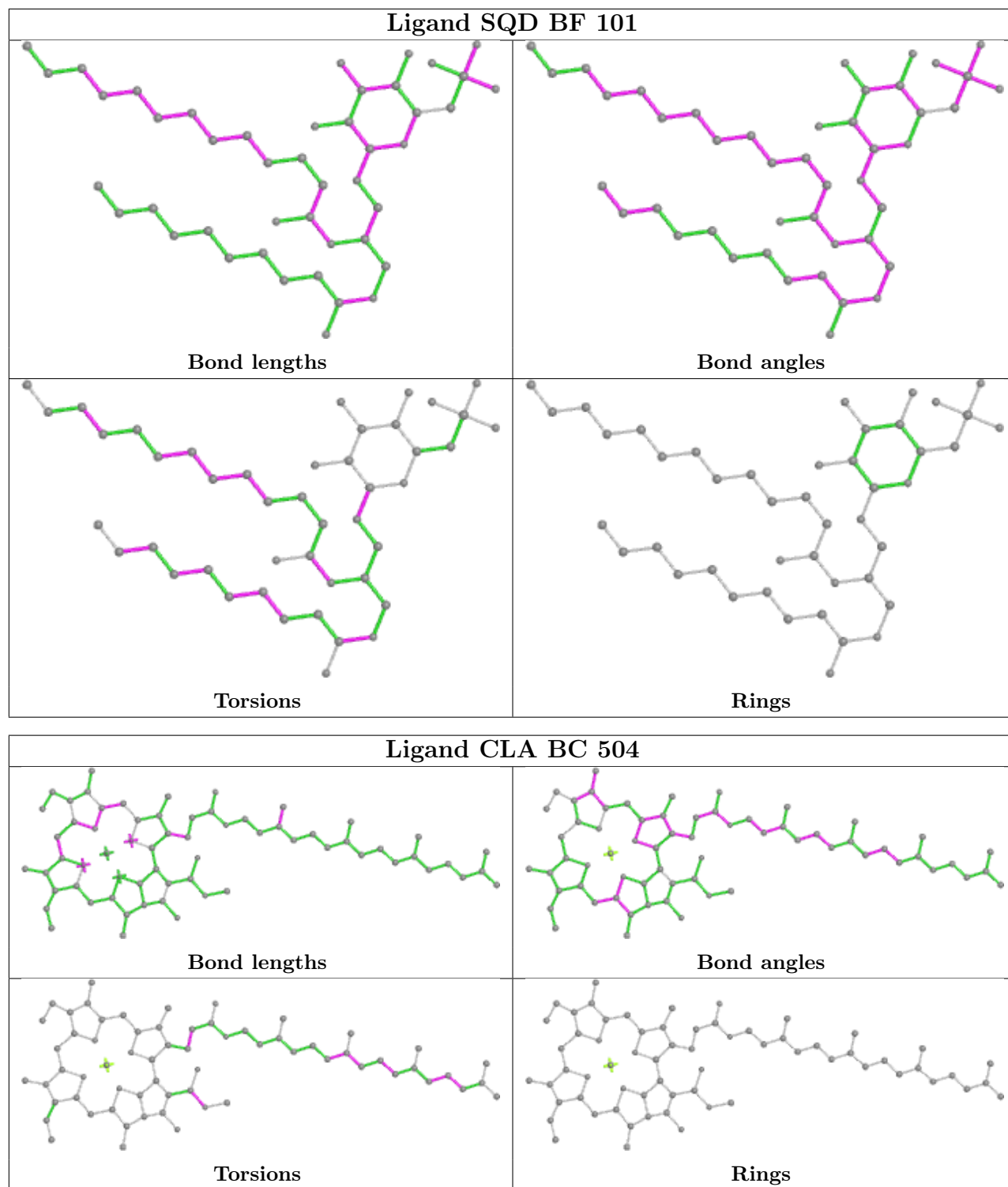


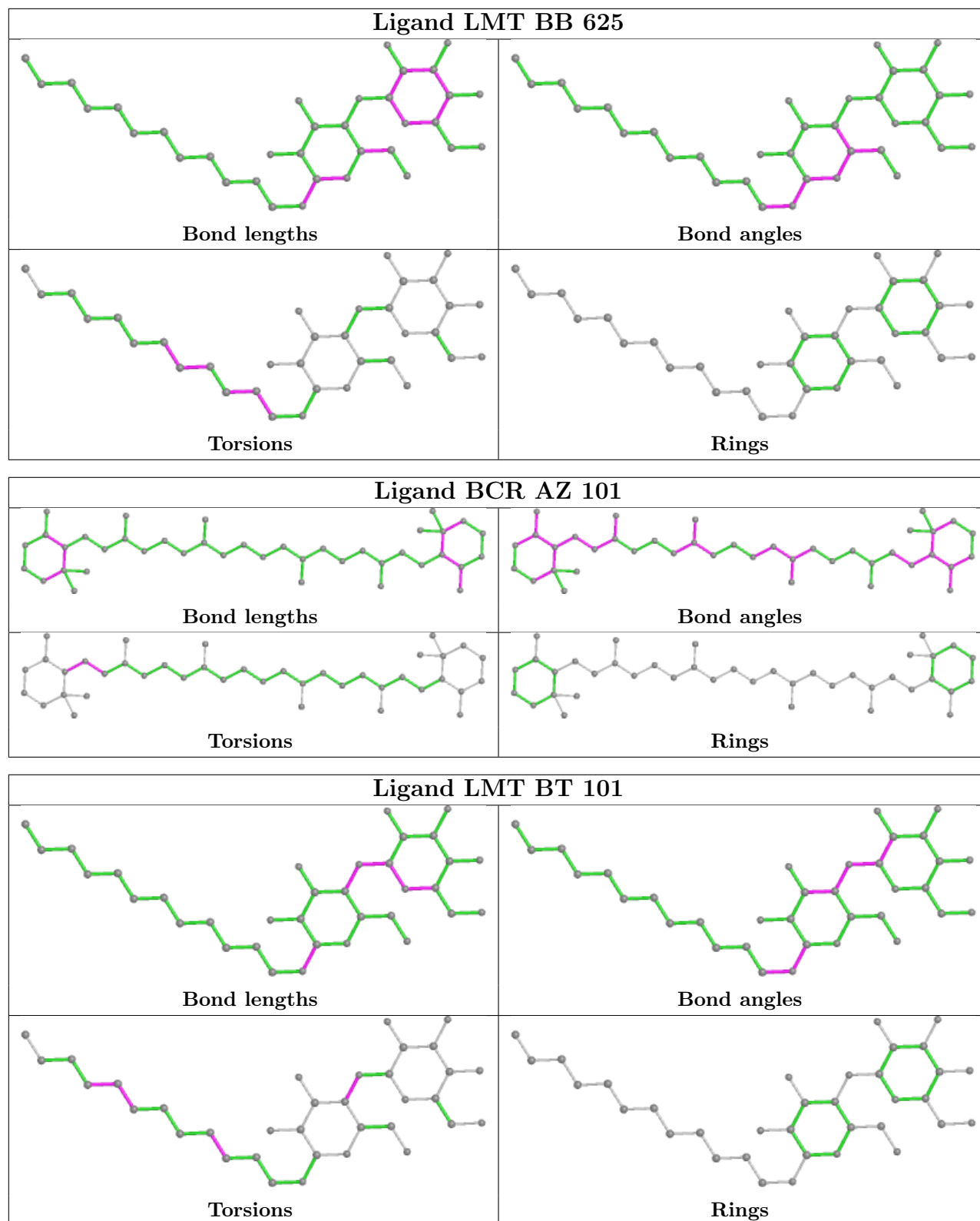




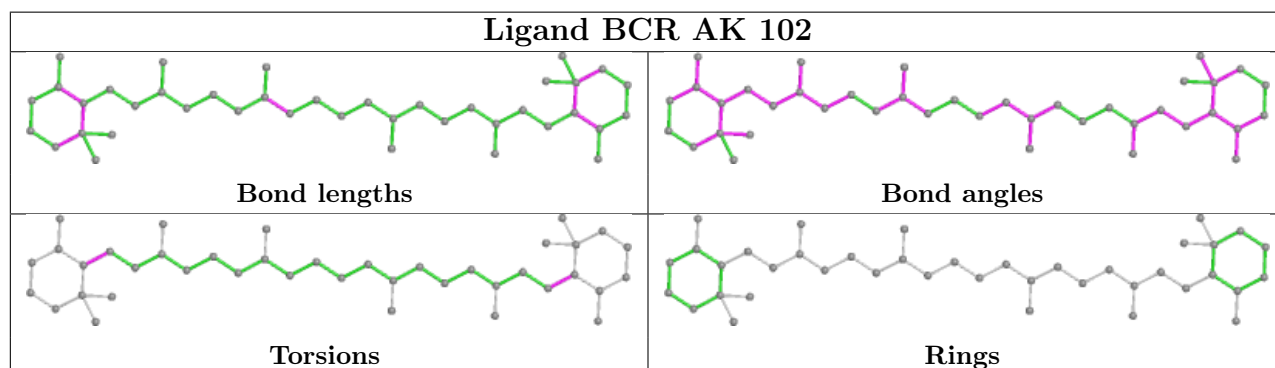
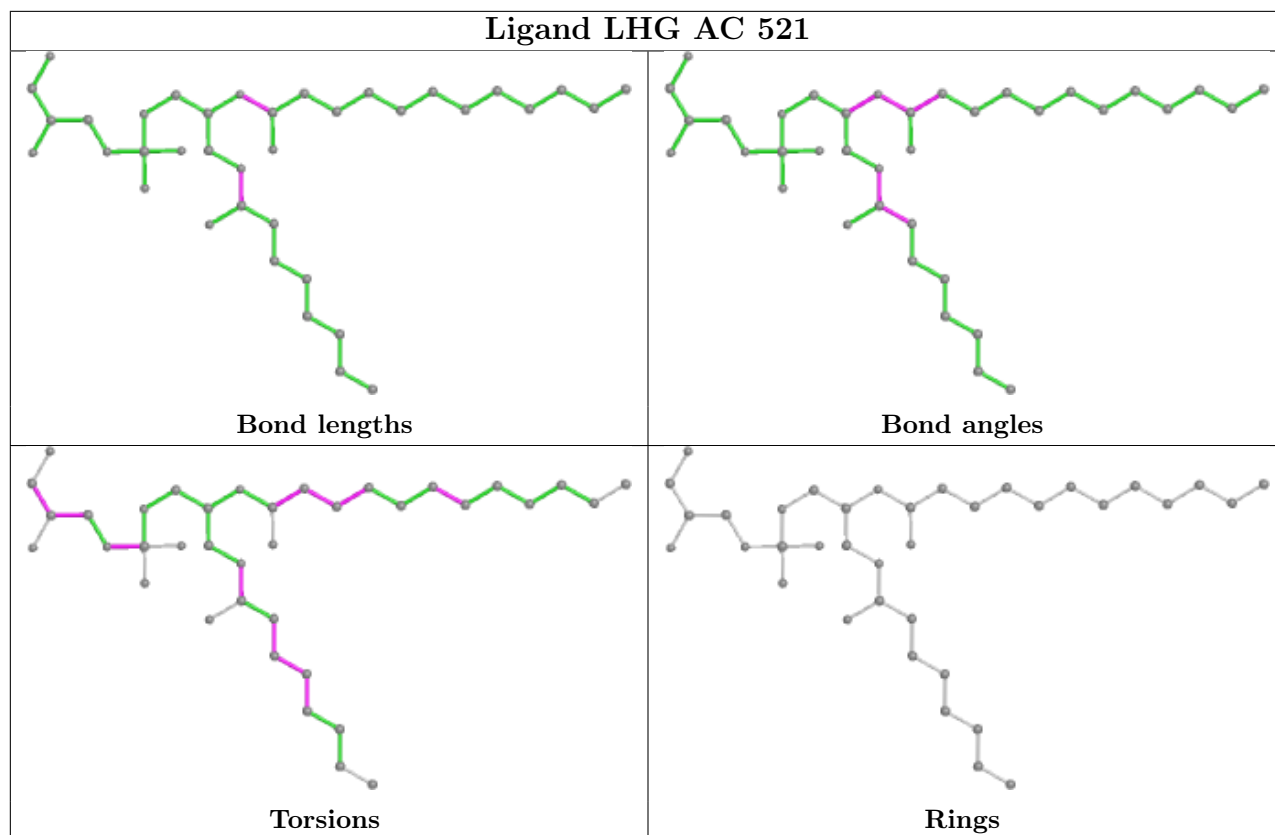


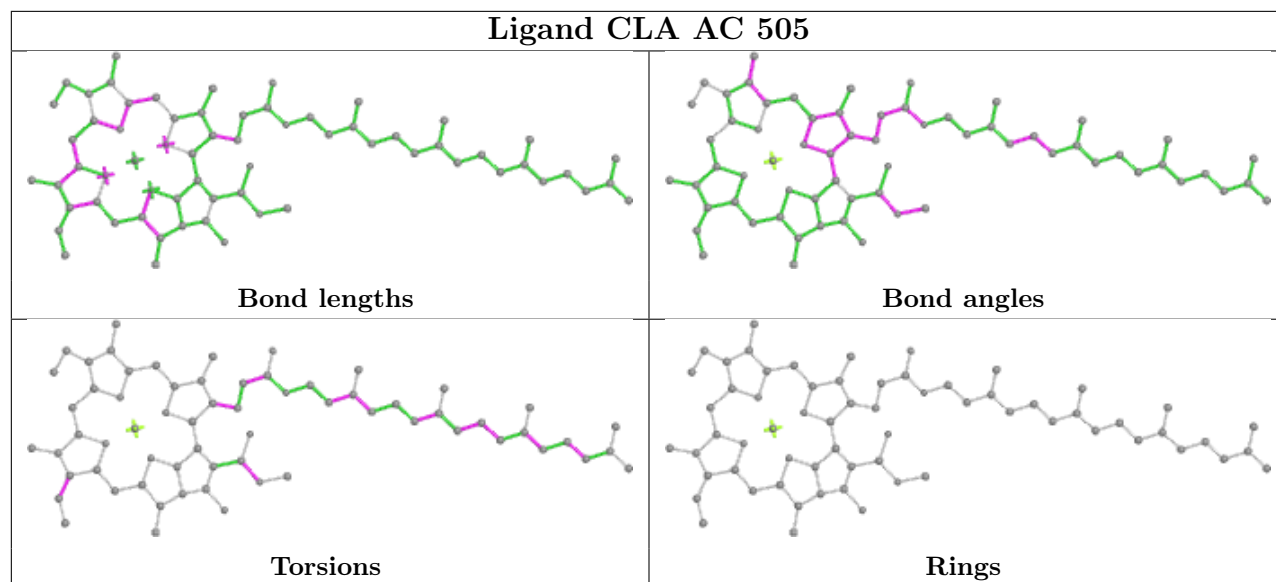












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

## 6 Fit of model and data i

### 6.1 Protein, DNA and RNA chains i

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	AA	335/344 (97%)	-0.44	7 (2%) 63 61	23, 59, 88, 103	0
1	BA	335/344 (97%)	-0.25	6 (1%) 68 67	47, 70, 89, 103	0
2	AB	490/510 (96%)	-0.24	7 (1%) 75 75	37, 63, 86, 99	0
2	BB	490/510 (96%)	-0.25	10 (2%) 65 63	41, 64, 87, 103	0
3	AC	447/473 (94%)	-0.19	11 (2%) 57 55	43, 72, 87, 102	0
3	BC	447/473 (94%)	0.05	19 (4%) 35 31	54, 83, 95, 101	0
4	AD	340/352 (96%)	-0.42	3 (0%) 84 84	29, 59, 84, 95	0
4	BD	340/352 (96%)	-0.32	5 (1%) 73 73	40, 69, 91, 101	0
5	AE	82/84 (97%)	0.10	6 (7%) 15 11	54, 75, 93, 99	0
5	BE	82/84 (97%)	0.50	8 (9%) 7 5	71, 85, 98, 104	0
6	AF	35/45 (77%)	-0.14	2 (5%) 23 19	56, 73, 94, 97	0
6	BF	35/45 (77%)	0.35	5 (14%) 2 2	75, 82, 97, 99	0
7	AH	65/66 (98%)	0.15	3 (4%) 32 29	57, 76, 92, 97	0
7	BH	65/66 (98%)	0.29	8 (12%) 4 3	62, 80, 91, 103	0
8	AI	35/38 (92%)	-0.08	3 (8%) 10 8	57, 70, 87, 94	0
8	BI	35/38 (92%)	-0.05	0 100 100	69, 80, 92, 95	0
9	AJ	34/40 (85%)	-0.41	0 100 100	65, 74, 83, 89	0
9	BJ	34/40 (85%)	-0.19	1 (2%) 51 47	73, 81, 93, 98	0
10	AK	37/37 (100%)	-0.36	1 (2%) 54 50	67, 75, 86, 93	0
10	BK	37/37 (100%)	0.01	2 (5%) 25 22	84, 90, 96, 101	0
11	AL	37/37 (100%)	0.19	6 (16%) 1 1	45, 60, 98, 107	0
11	BL	37/37 (100%)	0.25	5 (13%) 3 2	46, 62, 94, 102	0
12	AM	34/36 (94%)	-0.05	2 (5%) 22 18	51, 65, 94, 100	0
12	BM	34/36 (94%)	-0.17	2 (5%) 22 18	55, 61, 76, 91	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AO	243/247 (98%)	0.08	13 (5%) 26 22	39, 70, 93, 107	0
13	BO	243/247 (98%)	0.21	17 (6%) 16 12	48, 76, 97, 107	0
14	AT	32/32 (100%)	0.11	3 (9%) 8 6	53, 63, 102, 104	0
14	BT	32/32 (100%)	-0.13	2 (6%) 20 16	57, 67, 93, 103	0
15	AU	97/104 (93%)	-0.06	1 (1%) 82 82	43, 63, 78, 86	0
15	BU	97/104 (93%)	-0.22	1 (1%) 82 82	55, 67, 77, 87	0
16	AV	137/137 (100%)	-0.22	1 (0%) 87 87	49, 66, 76, 79	0
16	BV	137/137 (100%)	0.13	8 (5%) 23 19	64, 79, 95, 102	0
17	Ay	28/46 (60%)	0.37	4 (14%) 2 2	79, 91, 97, 99	0
17	By	28/46 (60%)	0.42	3 (10%) 6 4	89, 98, 102, 106	0
18	AX	37/50 (74%)	-0.19	2 (5%) 25 22	70, 79, 93, 95	0
18	BX	37/50 (74%)	0.34	6 (16%) 1 1	75, 82, 91, 94	0
19	AY	0/28	-	-	-	-
19	BY	0/28	-	-	-	-
20	AZ	62/62 (100%)	0.31	10 (16%) 1 1	76, 85, 103, 110	0
20	BZ	62/62 (100%)	0.66	12 (19%) 1 0	86, 96, 105, 110	0
All	All	5214/5536 (94%)	-0.12	205 (3%) 39 35	23, 71, 94, 110	0

All (205) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	BH	65	LEU	8.6
12	AM	33	GLN	6.7
11	BL	1	MET	6.3
3	BC	473	ASP	6.2
14	AT	30	THR	6.0
1	BA	10	SER	5.9
20	BZ	62	VAL	5.8
7	BH	66	GLY	5.8
5	BE	84	LYS	5.6
5	BE	4	THR	5.5
20	BZ	1	MET	5.3
20	AZ	1	MET	5.2
2	BB	128	THR	5.1
20	AZ	34	ASP	5.1
14	AT	32	LYS	5.0
13	BO	49	ASP	5.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
5	AE	84	LYS	5.0
11	BL	2	GLU	5.0
6	BF	11	VAL	4.8
6	AF	12	SER	4.8
20	AZ	33	TRP	4.8
3	BC	253	LEU	4.8
1	BA	12	ASN	4.8
13	BO	50	ASP	4.7
4	BD	227	GLU	4.7
1	BA	11	ALA	4.6
18	BX	46	VAL	4.5
14	AT	31	LYS	4.4
4	BD	239	GLN	4.3
20	BZ	60	PHE	4.2
14	BT	32	LYS	4.2
5	AE	6	GLY	4.2
20	BZ	61	VAL	4.2
2	BB	85	GLY	4.1
18	BX	47	GLN	4.1
3	AC	192	GLY	4.1
12	BM	33	GLN	4.1
13	AO	84	ASN	4.0
6	BF	13	TYR	4.0
13	BO	51	THR	4.0
18	BX	12	ILE	4.0
20	BZ	31	GLN	4.0
13	AO	87	GLN	3.9
5	AE	17	VAL	3.9
20	BZ	34	ASP	3.8
7	BH	64	ALA	3.8
4	AD	227	GLU	3.8
13	BO	84	ASN	3.8
20	AZ	62	VAL	3.7
5	BE	61	ARG	3.7
13	BO	232	GLY	3.6
13	BO	52	ALA	3.6
11	BL	3	PRO	3.6
5	BE	60	GLN	3.6
11	AL	2	GLU	3.5
13	AO	272	ALA	3.5
13	BO	61	SER	3.5
1	AA	10	SER	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	BC	142	GLU	3.4
2	BB	488	PRO	3.4
1	AA	11	ALA	3.3
11	BL	7	ARG	3.3
18	AX	47	GLN	3.3
18	AX	46	VAL	3.3
13	BO	87	GLN	3.3
20	AZ	38	GLN	3.3
18	BX	11	THR	3.3
13	BO	60	SER	3.3
1	AA	12	ASN	3.3
5	BE	6	GLY	3.3
17	Ay	45	ASN	3.2
3	BC	30	SER	3.2
13	BO	48	LEU	3.2
20	AZ	30	PRO	3.2
4	BD	226	GLY	3.2
3	BC	472	LEU	3.2
16	BV	39	ASN	3.2
3	AC	182	PHE	3.2
17	Ay	41	VAL	3.2
3	AC	143	TYR	3.2
20	BZ	4	LEU	3.1
2	AB	85	GLY	3.1
1	BA	15	GLU	3.1
2	AB	127	ARG	3.1
11	AL	1	MET	3.1
13	AO	88	GLU	3.0
3	AC	214	LEU	3.0
7	BH	6	TRP	3.0
5	BE	17	VAL	3.0
4	AD	13	GLY	3.0
5	AE	83	LEU	3.0
5	AE	5	THR	2.9
3	BC	204	LEU	2.9
5	BE	3	GLY	2.9
13	AO	115	SER	2.9
16	BV	43	LYS	2.9
16	BV	50	LYS	2.9
9	BJ	7	ARG	2.9
8	AI	34	ARG	2.9
3	AC	27	ASP	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
13	AO	271	PRO	2.8
20	AZ	60	PHE	2.8
20	AZ	4	LEU	2.8
15	BU	53	GLU	2.8
13	AO	114	ASN	2.8
20	BZ	35	ARG	2.8
13	BO	35	ASP	2.8
3	BC	471	SER	2.8
10	BK	10	LYS	2.8
3	BC	207	ARG	2.8
18	BX	13	THR	2.8
20	AZ	35	ARG	2.8
20	BZ	3	ILE	2.7
6	BF	12	SER	2.7
3	BC	252	ILE	2.7
2	AB	128	THR	2.7
13	BO	88	GLU	2.7
5	AE	12	ASP	2.6
12	BM	34	LYS	2.6
17	By	22	LEU	2.6
16	BV	42	GLY	2.6
3	BC	214	LEU	2.6
10	BK	46	ARG	2.6
1	AA	243	GLU	2.6
1	AA	16	ARG	2.6
12	AM	34	LYS	2.6
17	By	19	ILE	2.6
11	AL	3	PRO	2.6
7	AH	66	GLY	2.5
7	BH	23	PRO	2.5
16	BV	116	GLU	2.5
13	AO	51	THR	2.5
4	BD	241	GLU	2.5
3	BC	208	VAL	2.5
6	AF	11	VAL	2.5
13	AO	59	ASP	2.5
2	BB	127	ARG	2.5
3	BC	145	SER	2.5
6	BF	44	GLN	2.5
11	BL	5	PRO	2.5
2	AB	130	GLU	2.5
7	AH	6	TRP	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
8	AI	35	LYS	2.5
1	BA	16	ARG	2.5
3	BC	146	PHE	2.5
3	AC	102	GLY	2.5
4	AD	228	GLY	2.4
8	AI	33	LYS	2.4
7	AH	4	ARG	2.4
11	AL	7	ARG	2.4
15	AU	38	GLU	2.4
3	AC	191	PRO	2.4
20	BZ	38	GLN	2.4
14	BT	31	LYS	2.4
13	AO	35	ASP	2.3
3	BC	32	GLY	2.3
3	BC	182	PHE	2.3
20	AZ	3	ILE	2.3
2	BB	130	GLU	2.3
5	BE	71	GLU	2.3
2	BB	161	LEU	2.3
2	BB	490	GLN	2.3
1	AA	227	THR	2.3
3	BC	255	THR	2.3
2	AB	129	GLY	2.3
13	AO	62	GLN	2.3
13	AO	124	GLU	2.3
18	BX	45	LYS	2.2
2	AB	490	GLN	2.2
2	BB	350	GLU	2.2
13	AO	31	LEU	2.2
17	By	41	VAL	2.2
13	BO	32	THR	2.2
13	BO	63	THR	2.2
11	AL	5	PRO	2.2
13	BO	112	LYS	2.2
2	AB	487	SER	2.2
2	BB	294	SER	2.2
3	AC	207	ARG	2.2
2	BB	293	ALA	2.2
16	BV	132	ASN	2.2
17	Ay	21	GLN	2.2
13	BO	89	ALA	2.2
1	AA	225	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
10	AK	10	LYS	2.2
7	BH	7	LEU	2.1
17	Ay	19	ILE	2.1
16	BV	115	ALA	2.1
11	AL	4	ASN	2.1
3	BC	33	PHE	2.1
16	AV	40	SER	2.1
7	BH	59	ASN	2.1
3	AC	471	SER	2.1
20	BZ	33	TRP	2.1
3	AC	236	GLY	2.1
3	BC	53	HIS	2.1
13	BO	54	GLY	2.1
3	AC	460	ASP	2.0
16	BV	41	GLU	2.0
1	BA	100	ALA	2.0
20	BZ	37	LYS	2.0
4	BD	17	ILE	2.0
3	BC	144	SER	2.0
7	BH	18	TYR	2.0
6	BF	42	PHE	2.0

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

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

## 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
32	LMT	AB	627	35/35	0.47	0.54	73,103,106,107	0
32	LMT	AB	624	35/35	0.50	0.63	71,100,106,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
24	PL9	AJ	101	35/55	0.60	0.56	93,101,107,109	0
30	LMG	AI	101	43/55	0.62	0.47	83,92,97,98	0
32	LMT	BI	102	35/35	0.62	0.56	90,104,106,106	0
27	DGD	AD	410	63/66	0.63	0.54	91,97,107,108	0
27	DGD	BD	410	63/66	0.64	0.52	84,100,105,105	0
29	SQD	BF	101	45/54	0.65	0.38	95,98,103,104	0
32	LMT	BD	411	31/35	0.65	0.50	67,91,99,100	0
30	LMG	AC	520	45/55	0.65	0.42	75,92,97,98	0
32	LMT	BB	603	35/35	0.66	0.36	68,86,95,96	0
26	BCR	BJ	102	40/40	0.68	0.50	93,98,101,102	0
28	LHG	BC	521	37/49	0.68	0.49	90,100,113,114	0
32	LMT	AT	101	35/35	0.69	0.34	72,91,97,98	0
28	LHG	AC	521	37/49	0.69	0.45	78,99,109,109	0
26	BCR	AJ	102	40/40	0.71	0.41	85,91,101,102	0
22	CLA	BB	604	65/65	0.71	0.35	86,98,107,109	0
24	PL9	BJ	101	35/55	0.71	0.44	78,99,111,112	0
30	LMG	AB	623	42/55	0.71	0.36	70,89,92,93	0
27	DGD	BB	602	52/66	0.71	0.32	71,85,104,105	0
25	OEC	BA	409	5/9	0.71	0.14	30,74,79,92	0
32	LMT	BB	625	35/35	0.72	0.43	66,103,111,111	0
29	SQD	AF	101	45/54	0.72	0.36	82,97,102,103	0
30	LMG	BC	520	45/55	0.72	0.48	86,93,101,102	0
30	LMG	BI	101	43/55	0.73	0.38	84,90,99,100	0
30	LMG	AA	416	42/55	0.73	0.37	67,92,96,99	0
22	CLA	BB	619	65/65	0.74	0.29	75,81,93,95	0
32	LMT	AB	625	35/35	0.75	0.43	82,98,100,101	0
22	CLA	BA	407	65/65	0.75	0.35	72,76,103,104	0
32	LMT	AD	411	31/35	0.75	0.47	52,96,104,104	0
22	CLA	AB	601	65/65	0.75	0.39	88,97,102,105	0
27	DGD	AA	410	56/66	0.76	0.32	78,86,91,92	0
29	SQD	BA	401	54/54	0.76	0.34	82,91,107,108	0
27	DGD	BA	411	56/66	0.76	0.35	76,85,103,104	0
35	CA	BO	301	1/1	0.76	0.33	100,100,100,100	0
32	LMT	AI	102	35/35	0.77	0.49	74,92,95,95	0
22	CLA	AC	513	65/65	0.77	0.35	92,98,104,106	0
35	CA	AK	101	1/1	0.77	0.09	95,95,95,95	0
32	LMT	BB	626	35/35	0.77	0.31	76,93,101,102	0
32	LMT	BT	101	35/35	0.78	0.34	77,91,94,95	0
26	BCR	AH	101	40/40	0.78	0.32	76,88,95,95	0
30	LMG	AE	102	44/55	0.78	0.34	81,91,96,96	0
22	CLA	AA	406	65/65	0.79	0.31	54,60,89,90	0
26	BCR	AZ	101	40/40	0.79	0.32	75,82,90,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
30	LMG	AC	519	48/55	0.79	0.31	75,84,89,90	0
32	LMT	BM	101	35/35	0.79	0.30	70,88,97,101	0
30	LMG	BM	102	42/55	0.79	0.31	72,90,95,98	0
27	DGD	AB	626	52/66	0.79	0.30	79,94,105,107	0
26	BCR	BC	515	40/40	0.79	0.31	74,80,91,92	0
22	CLA	AB	616	65/65	0.80	0.27	73,85,105,106	0
30	LMG	AM	101	42/55	0.80	0.29	68,86,93,95	0
29	SQD	BD	409	43/54	0.80	0.25	73,88,110,111	0
22	CLA	AC	512	65/65	0.80	0.32	91,95,106,106	0
26	BCR	BX	101	40/40	0.80	0.30	76,79,89,90	0
29	SQD	BA	413	51/54	0.81	0.25	73,90,103,104	0
22	CLA	BC	512	65/65	0.81	0.31	95,99,109,110	0
30	LMG	BE	102	44/55	0.81	0.38	75,92,98,99	0
26	BCR	BZ	101	40/40	0.81	0.28	81,90,93,94	0
22	CLA	BC	513	65/65	0.82	0.34	96,99,106,107	0
29	SQD	AD	409	43/54	0.82	0.24	68,92,108,111	0
22	CLA	AD	404	65/65	0.82	0.32	80,83,102,103	0
22	CLA	BD	404	65/65	0.83	0.27	89,92,101,102	0
32	LMT	AM	102	35/35	0.83	0.30	67,89,93,96	0
22	CLA	BB	609	65/65	0.83	0.26	72,80,96,96	0
22	CLA	AB	606	65/65	0.84	0.26	73,87,96,96	0
26	BCR	BK	102	40/40	0.84	0.35	76,81,85,85	0
29	SQD	BL	101	47/54	0.84	0.25	75,91,115,116	0
29	SQD	AA	412	51/54	0.84	0.23	73,83,98,99	0
29	SQD	AA	415	54/54	0.84	0.27	71,87,105,105	0
24	PL9	AA	407	45/55	0.85	0.32	83,87,94,95	0
35	CA	BK	101	1/1	0.85	0.13	90,90,90,90	0
26	BCR	AK	102	40/40	0.85	0.30	73,77,81,81	0
30	LMG	BD	408	48/55	0.86	0.25	68,75,85,87	0
22	CLA	AC	506	65/65	0.86	0.22	83,87,101,102	0
24	PL9	BA	408	45/55	0.86	0.30	82,88,90,92	0
22	CLA	BC	506	65/65	0.86	0.24	81,85,97,99	0
27	DGD	BC	517	62/66	0.86	0.22	78,82,100,101	0
30	LMG	BC	519	48/55	0.86	0.31	83,90,94,95	0
27	DGD	BC	518	66/66	0.86	0.25	71,78,89,90	0
22	CLA	AC	507	65/65	0.87	0.27	83,90,95,97	0
30	LMG	AB	621	49/55	0.87	0.23	62,75,80,83	0
30	LMG	BD	407	46/55	0.87	0.24	70,80,92,94	0
22	CLA	BB	612	65/65	0.88	0.28	82,89,92,95	0
30	LMG	AA	413	51/55	0.88	0.24	70,74,77,79	0
29	SQD	BB	601	47/54	0.88	0.23	74,87,109,111	0
26	BCR	BD	406	40/40	0.88	0.23	66,78,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
26	BCR	AB	620	40/40	0.88	0.24	75,77,83,84	0
30	LMG	BB	623	49/55	0.88	0.23	70,78,88,91	0
22	CLA	BC	507	65/65	0.89	0.24	84,92,96,97	0
22	CLA	BC	508	65/65	0.89	0.24	92,97,101,106	0
22	CLA	BC	511	65/65	0.89	0.25	91,99,104,105	0
22	CLA	AB	609	65/65	0.89	0.26	76,87,91,92	0
22	CLA	AB	604	65/65	0.89	0.25	67,73,91,91	0
27	DGD	AC	516	53/66	0.89	0.23	57,72,91,92	0
27	DGD	AC	517	62/66	0.89	0.22	70,78,91,92	0
27	DGD	AC	518	66/66	0.89	0.22	62,68,84,86	0
22	CLA	AC	511	65/65	0.89	0.25	77,85,89,90	0
26	BCR	AC	515	40/40	0.89	0.22	69,75,80,81	0
26	BCR	AB	618	40/40	0.90	0.20	75,78,82,83	0
30	LMG	BA	414	51/55	0.90	0.20	62,71,78,80	0
30	LMG	AB	622	49/55	0.90	0.19	64,73,80,83	0
26	BCR	BC	514	40/40	0.90	0.24	81,83,87,87	0
22	CLA	AC	504	65/65	0.90	0.23	78,86,107,107	0
28	LHG	AA	411	39/49	0.90	0.22	63,68,76,78	0
30	LMG	AD	408	48/55	0.90	0.23	63,68,74,80	0
22	CLA	BC	505	65/65	0.90	0.22	88,93,94,95	0
27	DGD	BC	516	53/66	0.90	0.23	69,77,96,97	0
27	DGD	BH	101	58/66	0.91	0.19	66,73,80,81	0
22	CLA	AC	508	65/65	0.91	0.21	80,86,99,101	0
22	CLA	BC	502	65/65	0.91	0.21	81,85,101,103	0
28	LHG	BA	412	39/49	0.91	0.23	72,77,80,81	0
22	CLA	BC	503	65/65	0.91	0.20	82,97,100,101	0
22	CLA	AB	610	65/65	0.91	0.21	60,67,79,80	0
22	CLA	AB	614	65/65	0.91	0.23	78,85,98,99	0
26	BCR	AB	619	40/40	0.91	0.18	62,70,82,83	0
30	LMG	BB	624	49/55	0.91	0.18	68,72,78,79	0
35	CA	AO	301	1/1	0.91	0.23	87,87,87,87	0
22	CLA	BB	618	65/65	0.91	0.21	69,84,87,88	0
26	BCR	AC	514	40/40	0.91	0.22	56,66,73,74	0
22	CLA	BC	509	65/65	0.92	0.22	73,83,93,94	0
26	BCR	BA	410	40/40	0.92	0.20	61,74,82,83	0
26	BCR	BB	620	40/40	0.92	0.20	66,69,72,73	0
26	BCR	BB	621	40/40	0.92	0.19	57,69,82,83	0
26	BCR	BB	622	40/40	0.92	0.25	67,71,79,80	0
22	CLA	BC	510	65/65	0.92	0.22	79,83,92,92	0
27	DGD	AH	102	58/66	0.92	0.19	57,72,85,86	0
22	CLA	BB	613	65/65	0.92	0.22	69,77,82,84	0
22	CLA	BB	617	65/65	0.92	0.22	75,79,99,100	0

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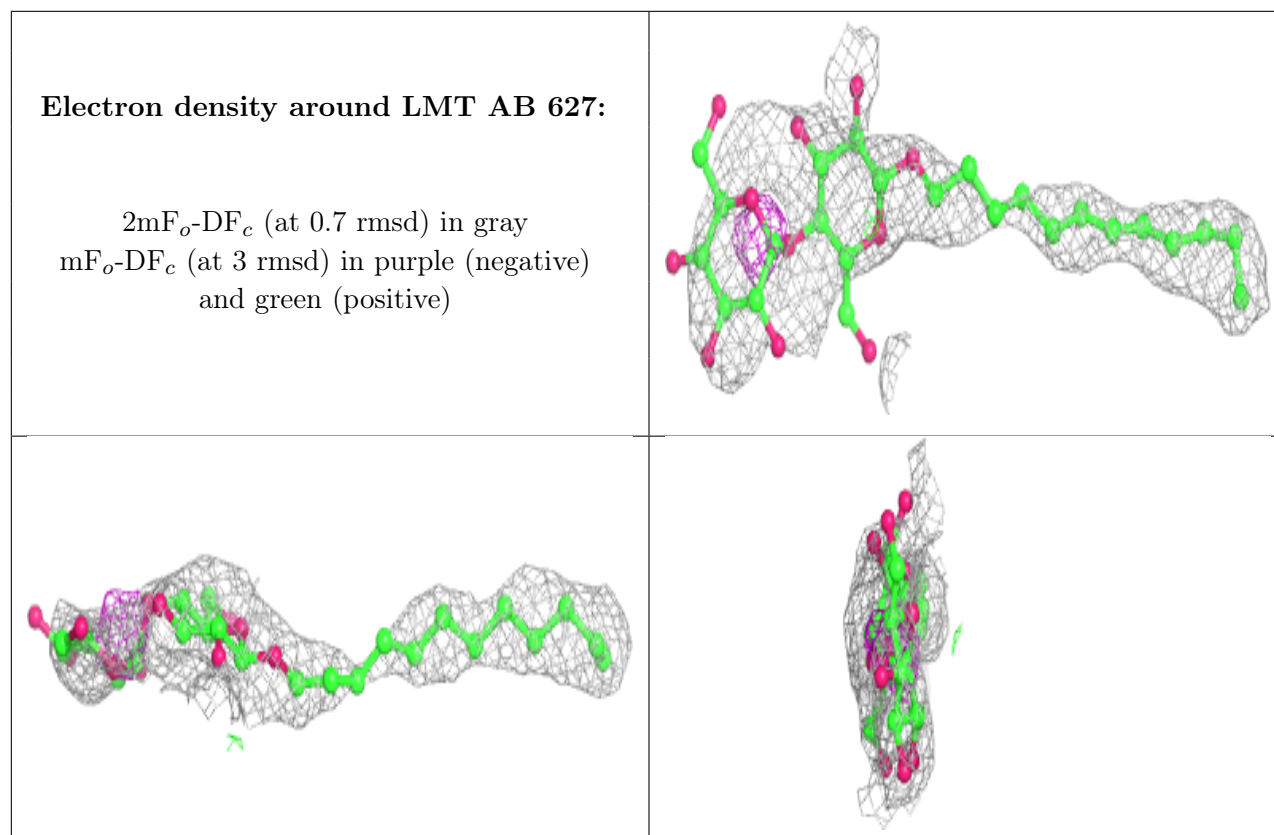
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
30	LMG	AD	407	46/55	0.92	0.20	63,71,90,92	0
34	HEM	BE	101	43/43	0.92	0.28	93,95,104,107	0
22	CLA	AB	615	65/65	0.92	0.21	83,93,97,99	0
26	BCR	AA	409	40/40	0.92	0.20	59,67,70,71	0
22	CLA	BC	504	65/65	0.92	0.19	87,92,102,102	0
26	BCR	AT	102	40/40	0.92	0.21	72,79,91,91	0
22	CLA	AA	404	65/65	0.93	0.21	63,72,97,99	0
24	PL9	BD	405	55/55	0.93	0.21	63,70,76,78	0
22	CLA	AC	505	65/65	0.93	0.20	69,73,77,79	0
25	OEC	AA	408	5/9	0.93	0.14	56,62,67,75	0
22	CLA	AB	608	65/65	0.93	0.19	72,79,87,91	0
22	CLA	BB	606	65/65	0.93	0.19	58,61,74,76	0
31	CL	BA	415	1/1	0.93	0.30	81,81,81,81	0
26	BCR	AB	617	40/40	0.93	0.17	56,67,75,76	0
34	HEM	AE	101	43/43	0.93	0.28	85,92,103,106	0
22	CLA	BB	607	65/65	0.93	0.19	53,64,86,87	0
23	PHO	BD	403	64/64	0.93	0.23	77,88,92,93	0
22	CLA	BC	501	65/65	0.93	0.20	76,80,87,88	0
24	PL9	AD	405	55/55	0.93	0.21	52,67,71,73	0
22	CLA	AB	612	65/65	0.93	0.21	63,75,81,83	0
22	CLA	AB	603	65/65	0.94	0.17	54,60,72,74	0
26	BCR	AD	406	40/40	0.94	0.16	64,72,85,85	0
31	CL	AA	414	1/1	0.94	0.63	73,73,73,73	0
22	CLA	AD	402	65/65	0.94	0.21	47,58,69,71	0
22	CLA	AB	611	65/65	0.94	0.19	62,68,71,73	0
22	CLA	BA	405	65/65	0.94	0.20	72,76,104,105	0
23	PHO	AD	403	64/64	0.94	0.18	39,56,70,72	0
22	CLA	BB	615	65/65	0.94	0.18	60,72,77,81	0
22	CLA	AC	503	65/65	0.94	0.22	78,86,92,95	0
22	CLA	AB	602	65/65	0.94	0.23	81,85,88,90	0
22	CLA	BB	605	65/65	0.94	0.20	77,82,86,89	0
22	CLA	AB	605	65/65	0.94	0.21	68,76,84,85	0
22	CLA	BA	403	65/65	0.95	0.17	57,64,71,75	0
22	CLA	BB	610	65/65	0.95	0.17	60,70,77,81	0
22	CLA	BB	611	65/65	0.95	0.17	67,74,81,85	0
22	CLA	BA	404	65/65	0.95	0.16	55,60,68,70	0
22	CLA	AC	509	65/65	0.95	0.20	59,74,86,89	0
22	CLA	BB	614	65/65	0.95	0.16	59,68,75,77	0
22	CLA	AA	403	65/65	0.95	0.16	41,48,56,60	0
22	CLA	BB	616	65/65	0.95	0.15	49,54,79,82	0
22	CLA	AB	613	65/65	0.95	0.18	65,69,84,87	0
33	BCT	BD	401	4/4	0.95	0.20	84,86,87,88	0

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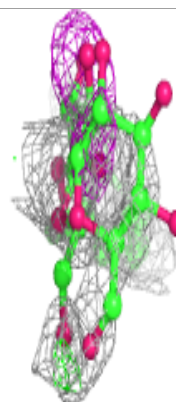
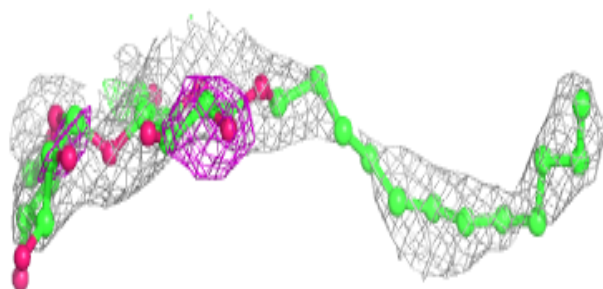
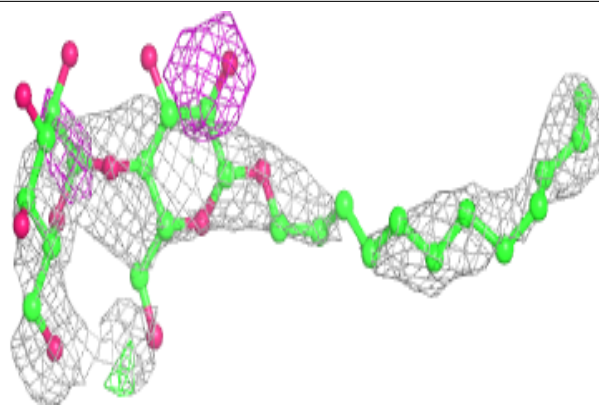
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
22	CLA	AC	501	65/65	0.95	0.20	78,83,85,86	0
22	CLA	AC	502	65/65	0.95	0.16	50,58,81,84	0
22	CLA	AB	607	65/65	0.95	0.14	50,55,74,74	0
23	PHO	AA	405	64/64	0.95	0.16	40,64,67,69	0
22	CLA	BB	608	65/65	0.95	0.19	45,53,76,78	0
23	PHO	BA	406	64/64	0.95	0.17	54,61,70,74	0
34	HEM	BV	201	43/43	0.96	0.19	58,67,76,79	0
22	CLA	AC	510	65/65	0.96	0.14	48,56,70,72	0
22	CLA	BD	402	65/65	0.96	0.17	50,57,79,83	0
34	HEM	AV	201	43/43	0.96	0.20	60,63,66,67	0
22	CLA	AA	402	65/65	0.96	0.17	51,58,66,69	0
33	BCT	AD	401	4/4	0.97	0.18	90,91,91,92	0
21	FE2	AA	401	1/1	0.98	0.12	69,69,69,69	0
21	FE2	BA	402	1/1	0.98	0.12	81,81,81,81	0

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

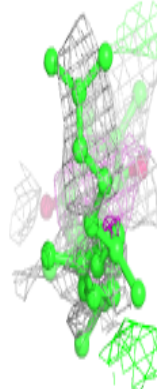
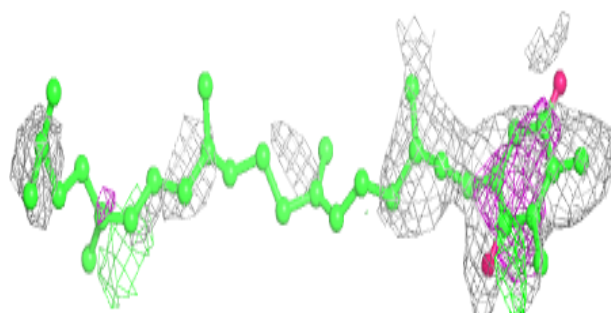
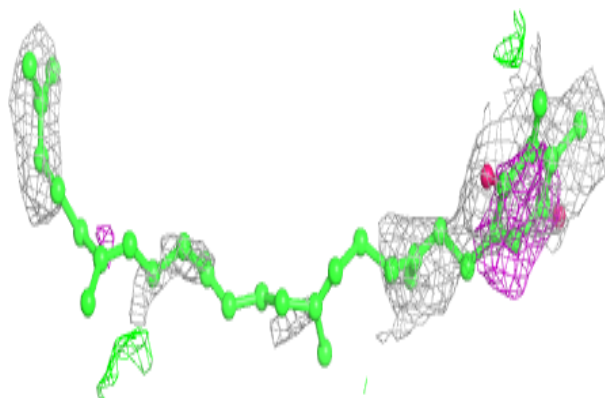


**Electron density around LMT AB 624:**

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

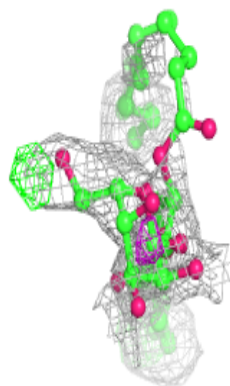
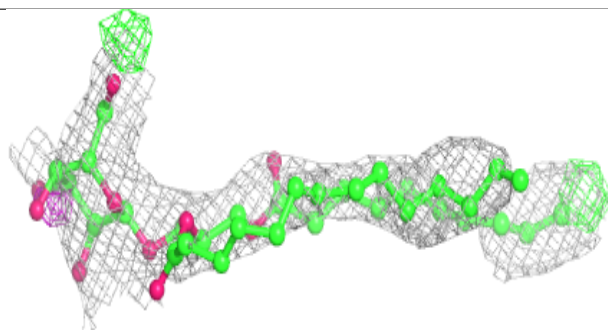
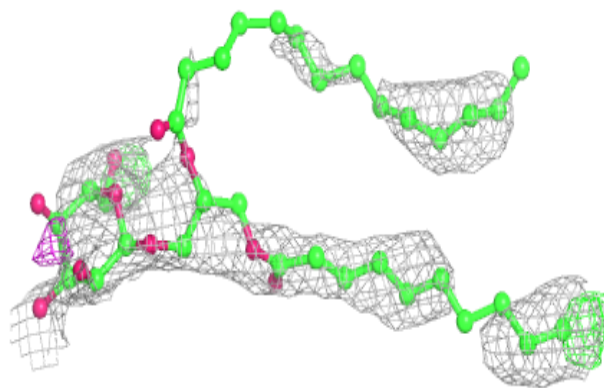
**Electron density around PL9 AJ 101:**

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

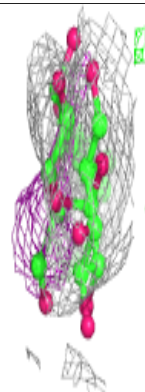
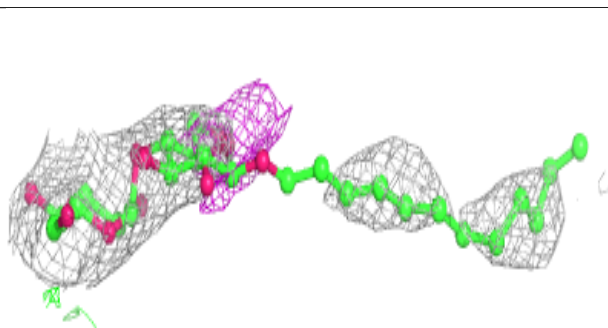
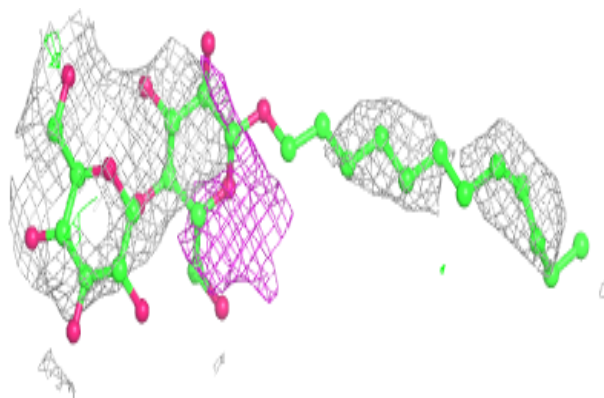


**Electron density around LMG AI 101:**

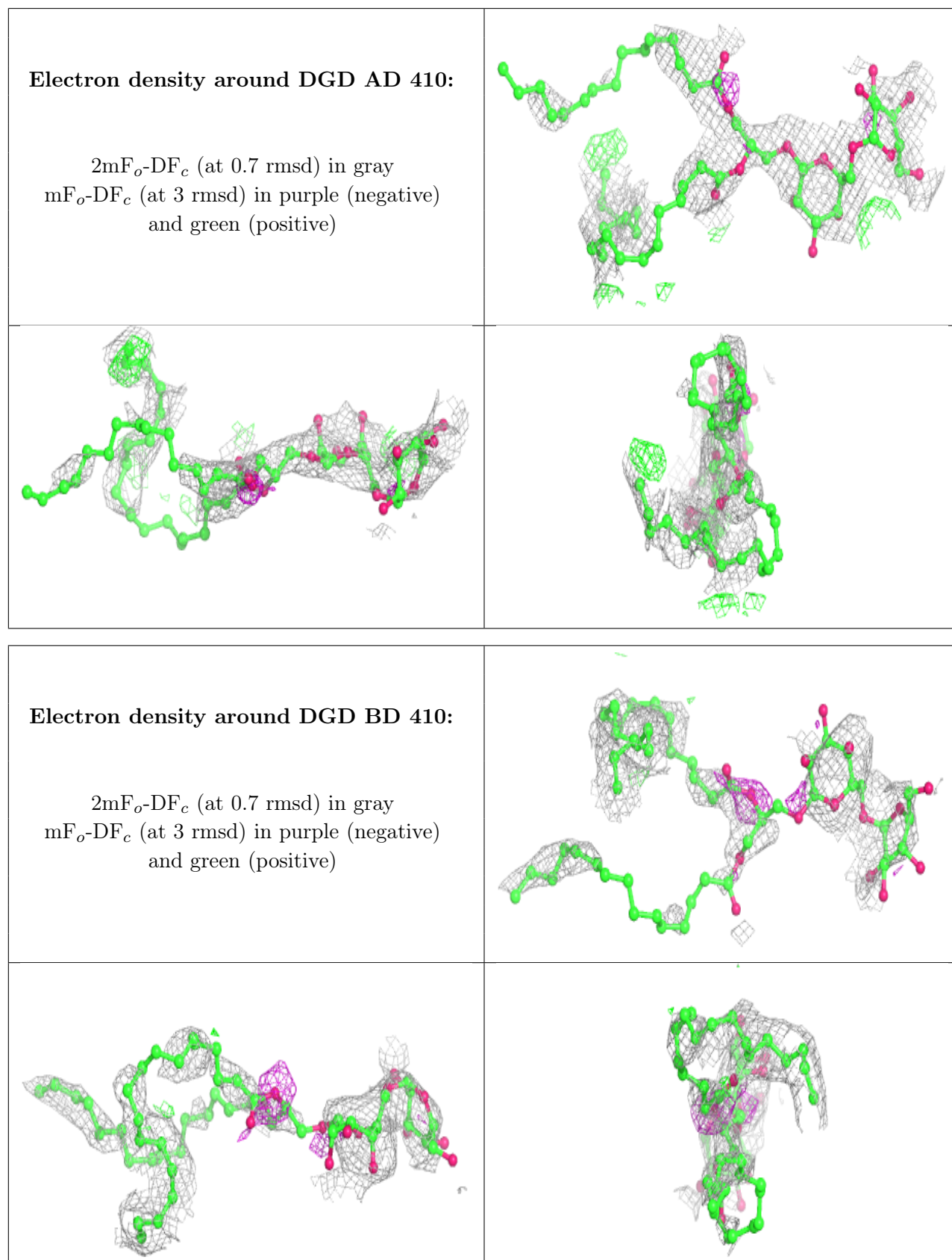
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around LMT BI 102:**

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

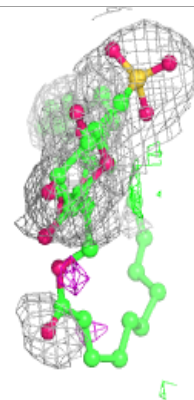
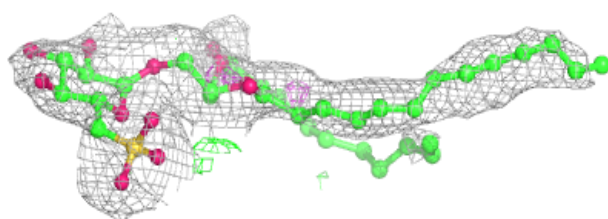
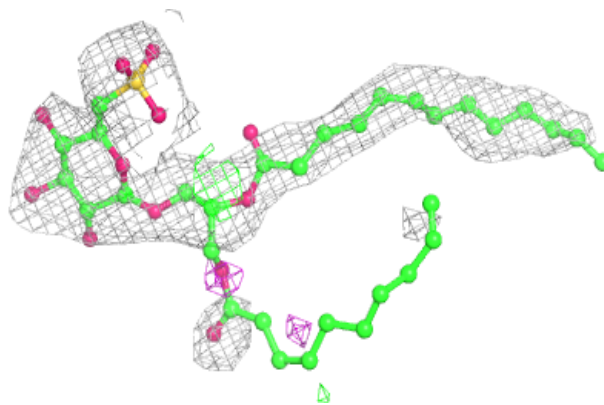




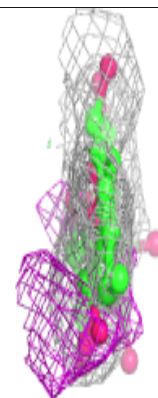
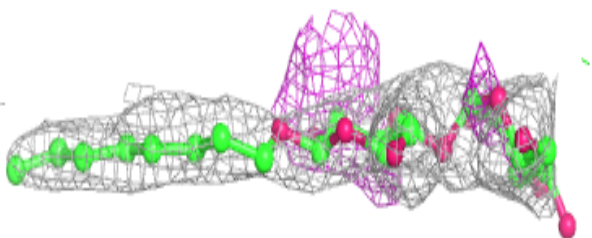
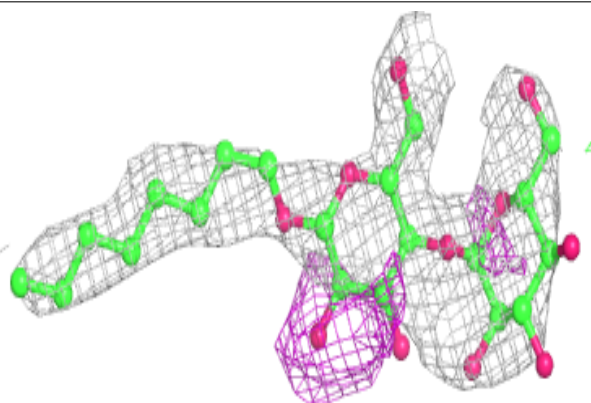


**Electron density around SQD BF 101:**

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

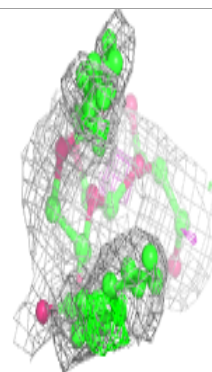
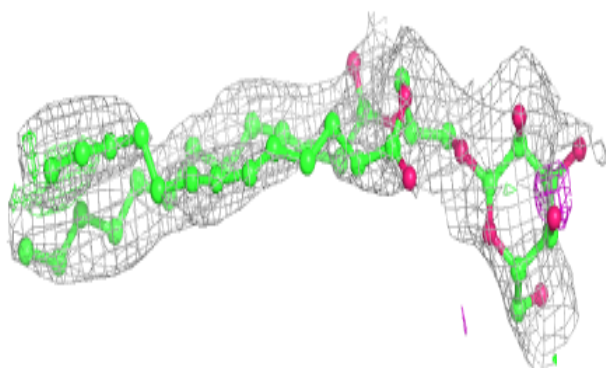
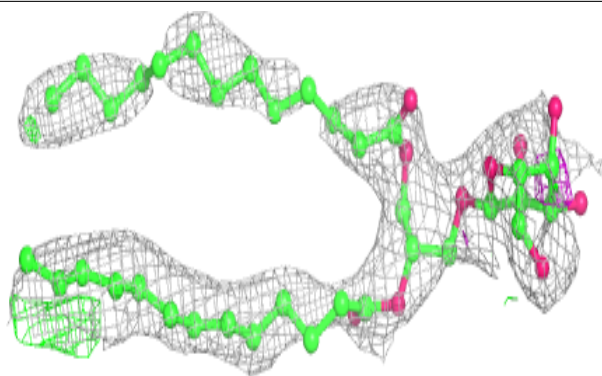
**Electron density around LMT BD 411:**

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

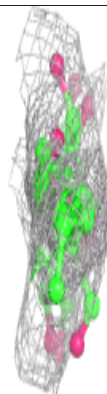
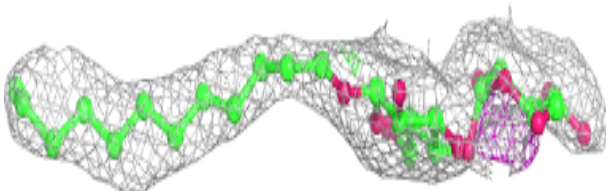
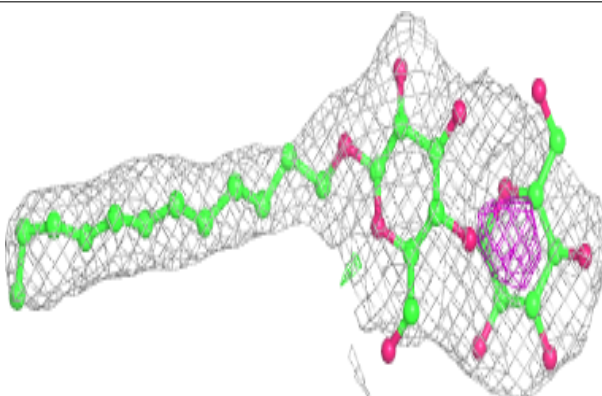


**Electron density around LMG AC 520:**

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

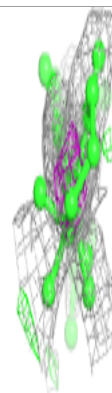
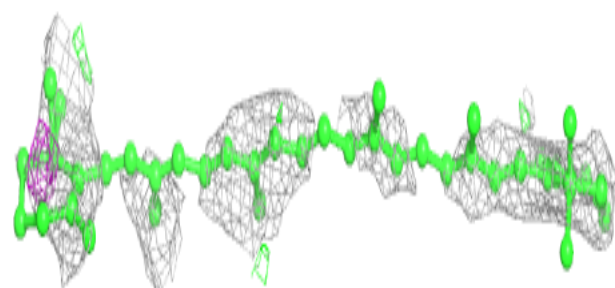
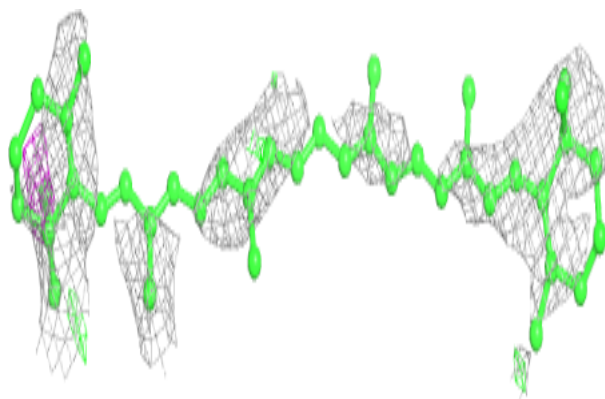
**Electron density around LMT BB 603:**

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

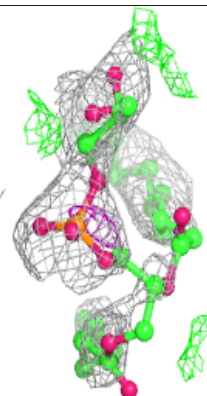
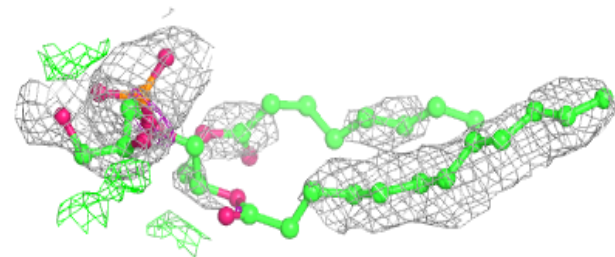
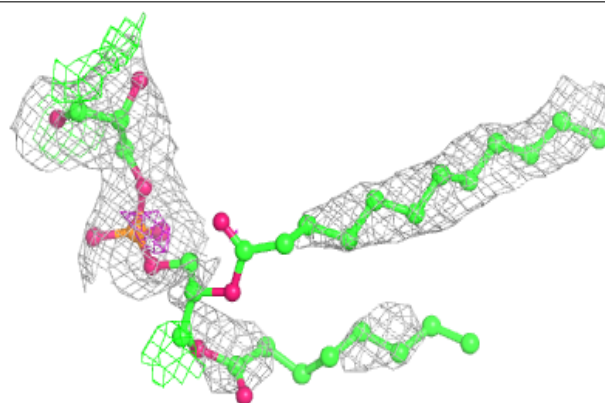


**Electron density around BCR BJ 102:**

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

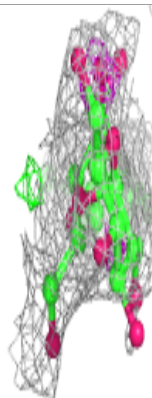
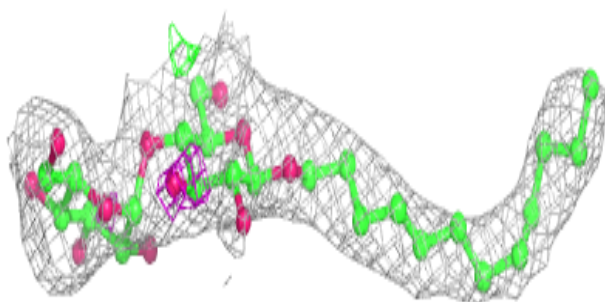
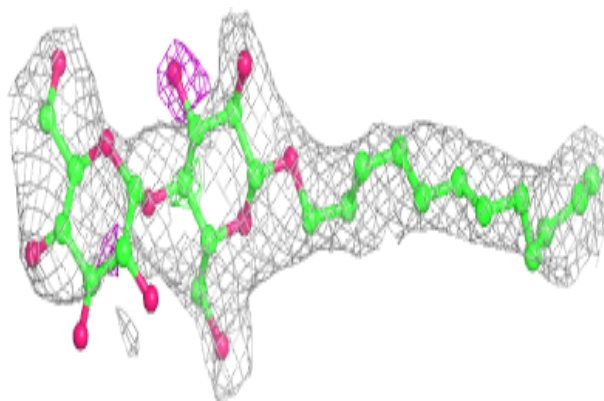
**Electron density around LHG BC 521:**

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

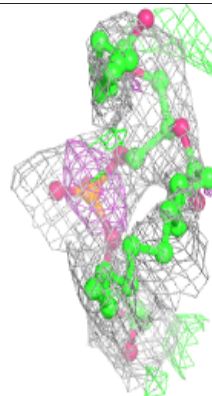
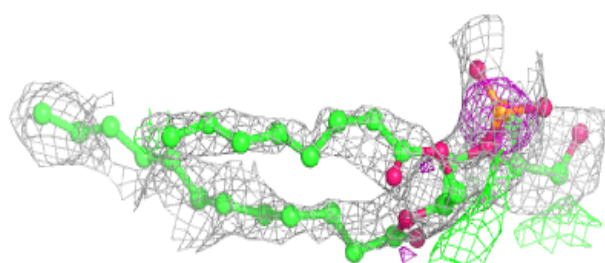
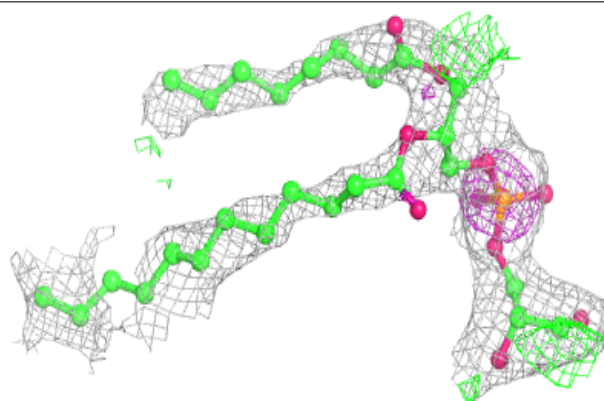


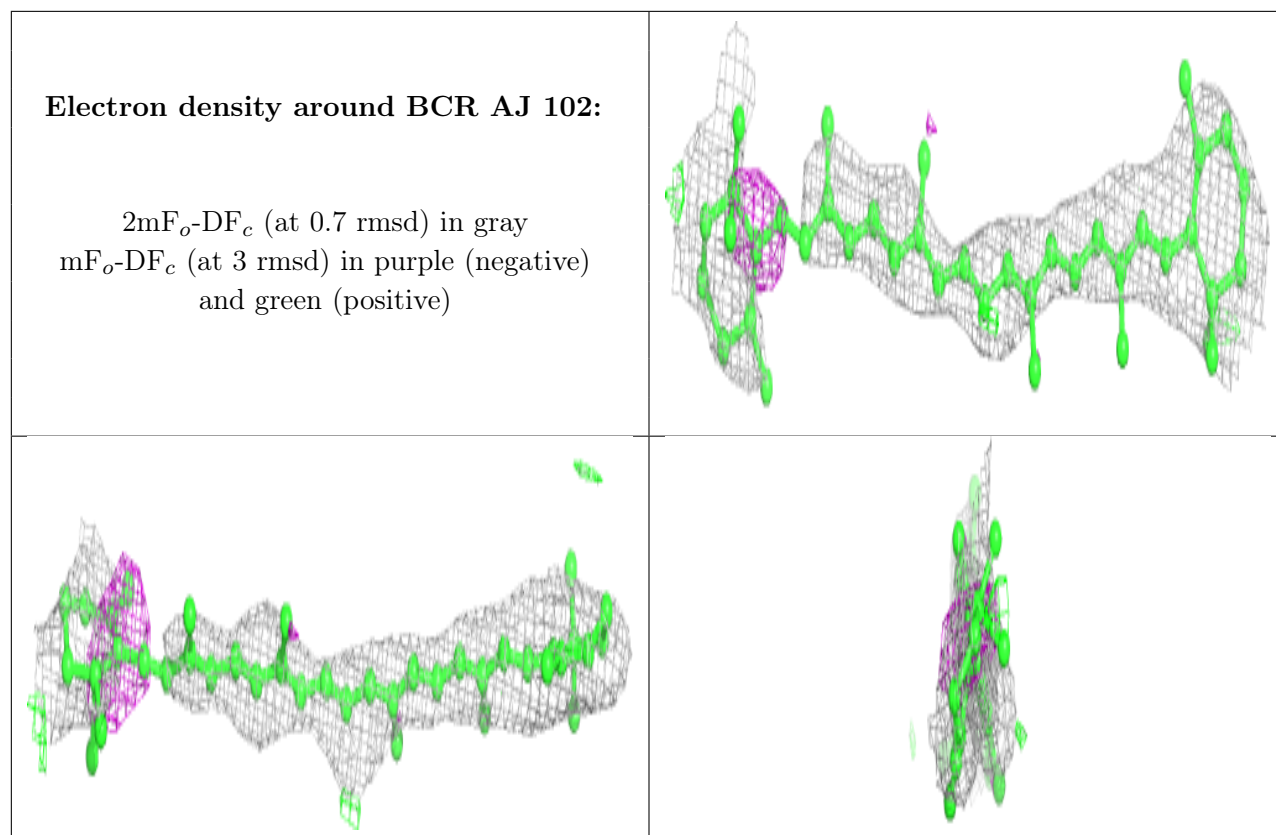
**Electron density around LMT AT 101:**

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

**Electron density around LHG AC 521:**

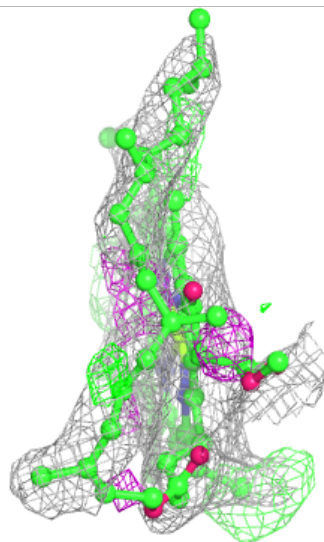
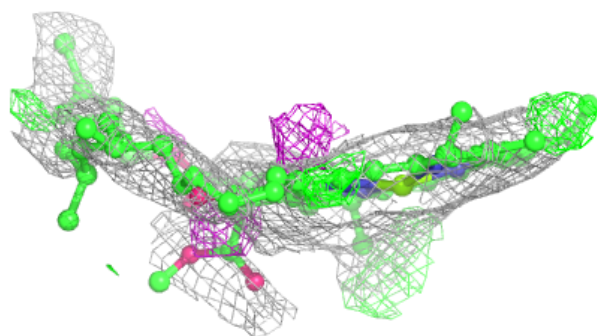
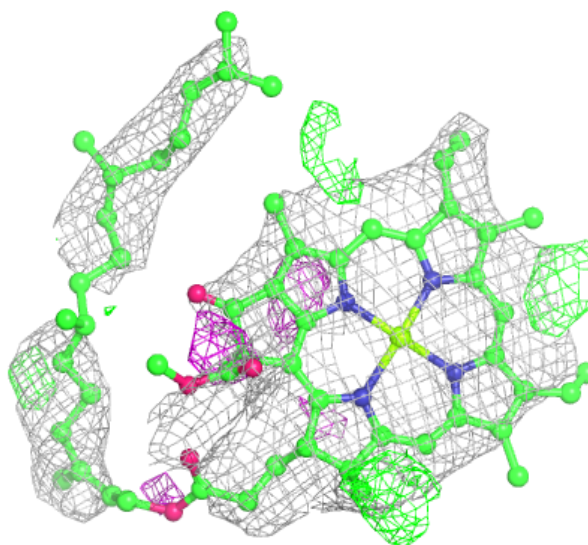
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





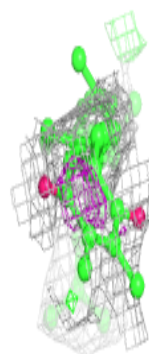
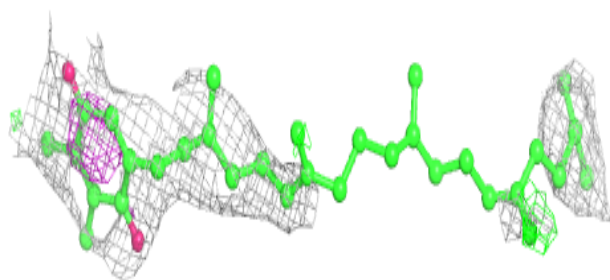
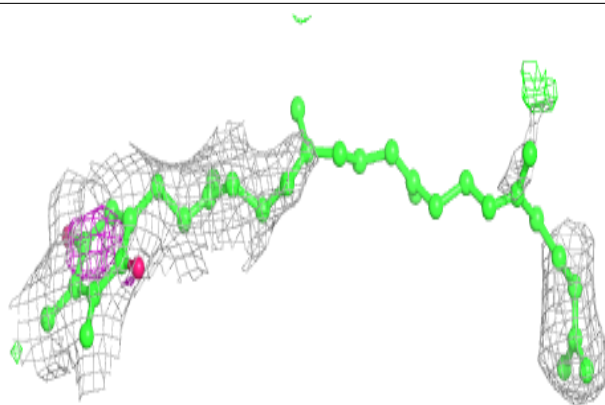
**Electron density around CLA BB 604:**

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

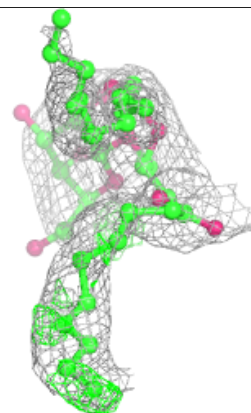
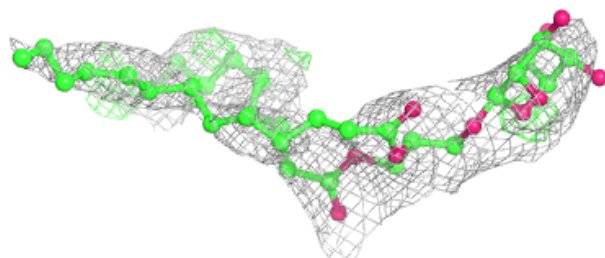
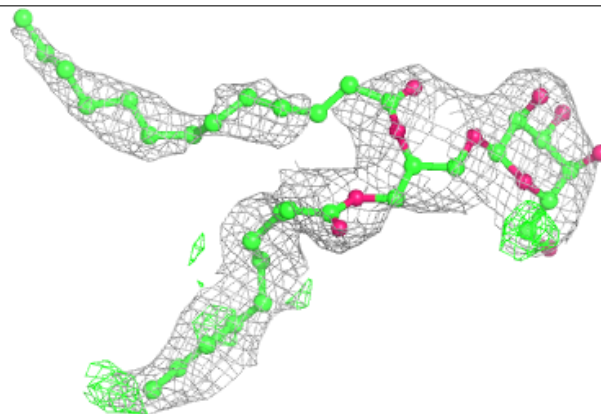


**Electron density around PL9 BJ 101:**

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

**Electron density around LMG AB 623:**

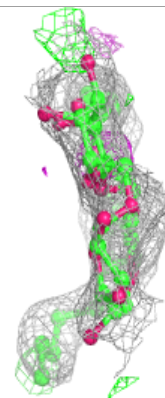
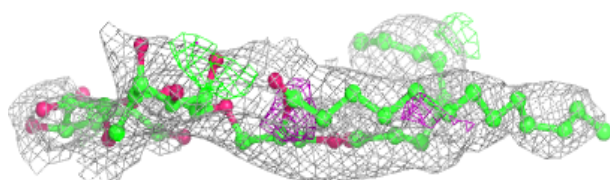
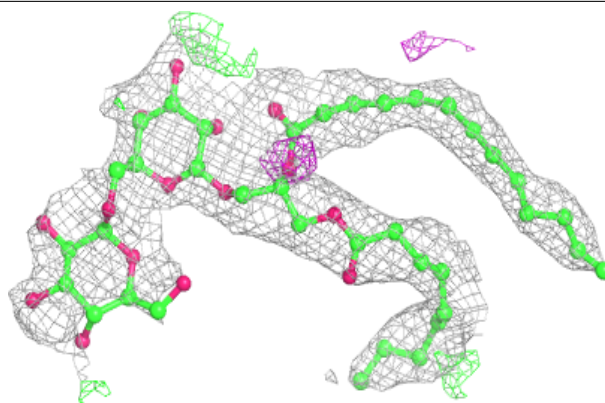
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



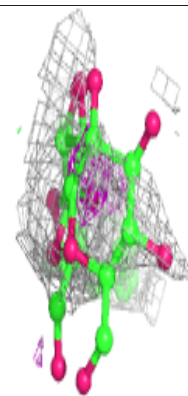
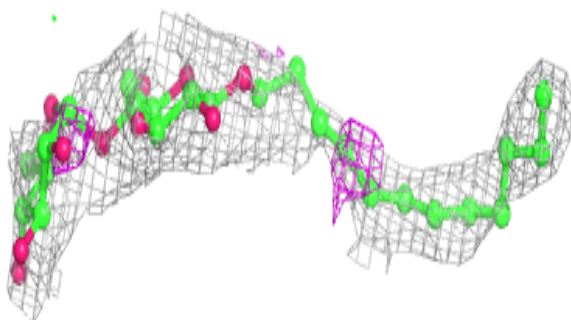
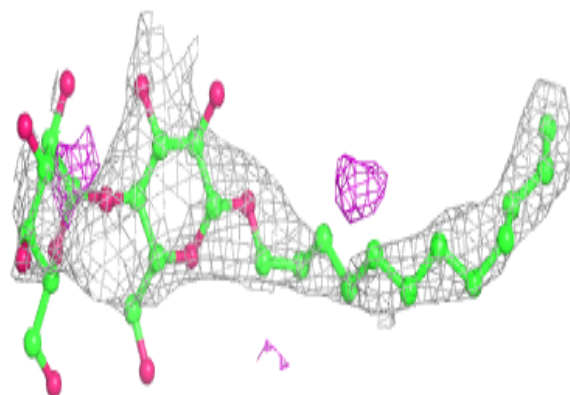


**Electron density around DGD BB 602:**

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

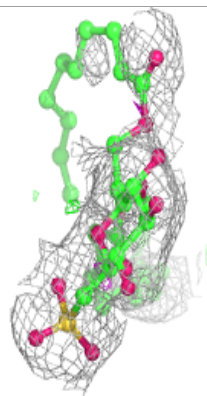
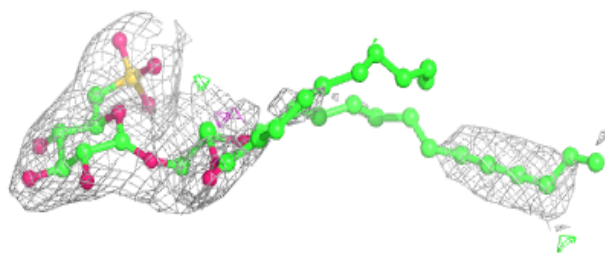
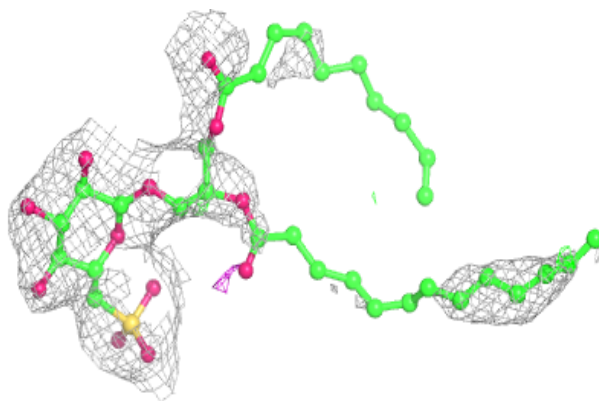
**Electron density around LMT BB 625:**

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

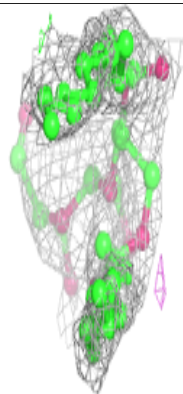
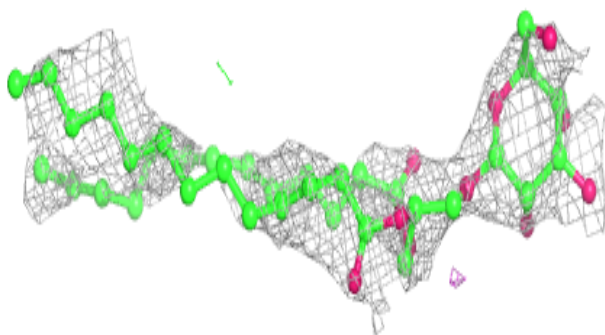
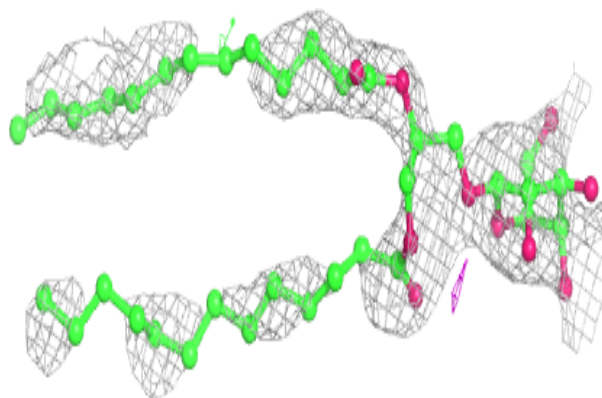


**Electron density around SQD AF 101:**

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

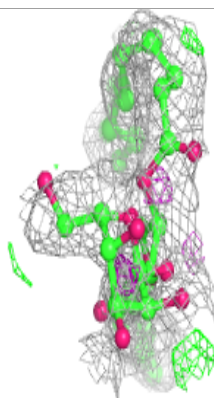
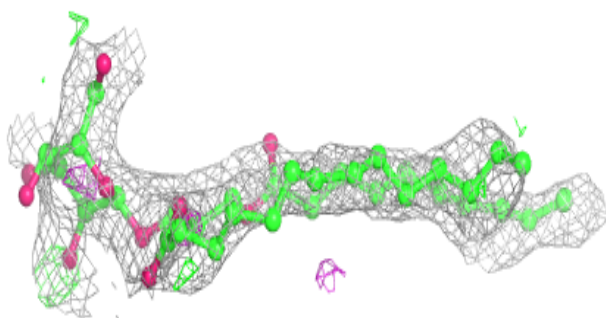
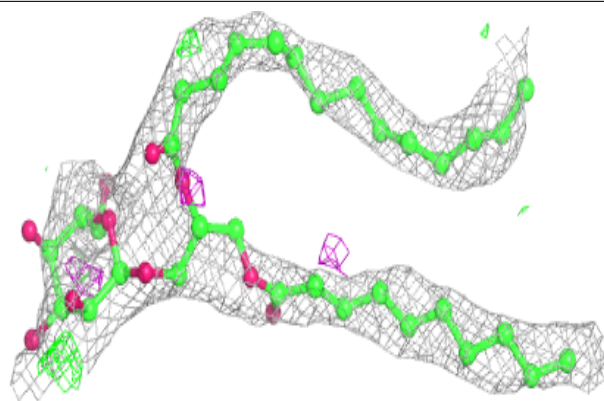
**Electron density around LMG BC 520:**

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

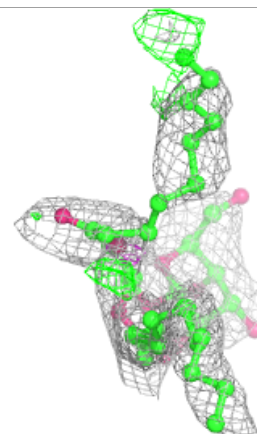
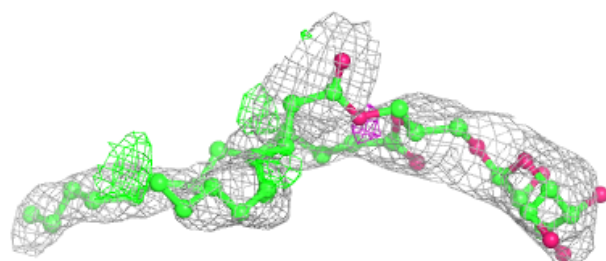
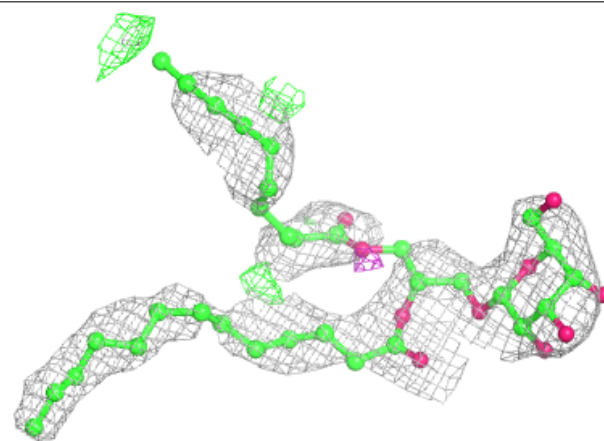


**Electron density around LMG BI 101:**

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

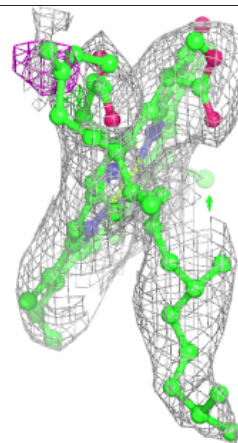
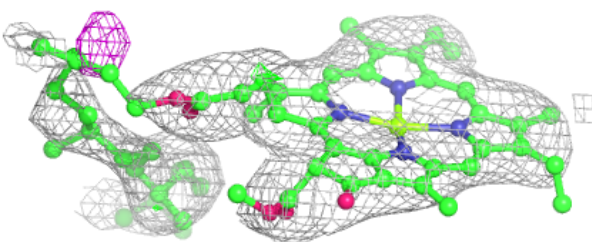
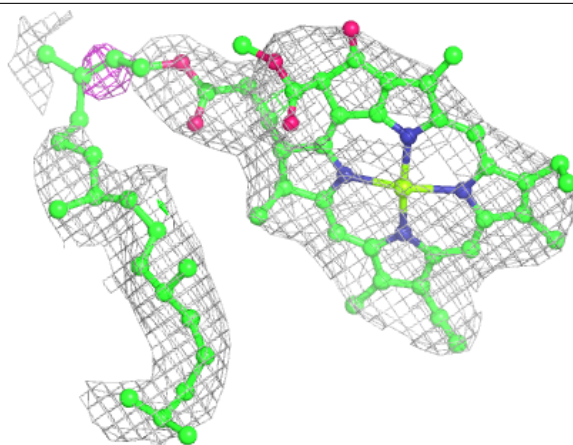
**Electron density around LMG AA 416:**

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

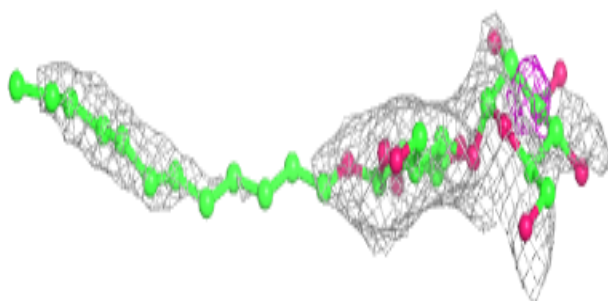
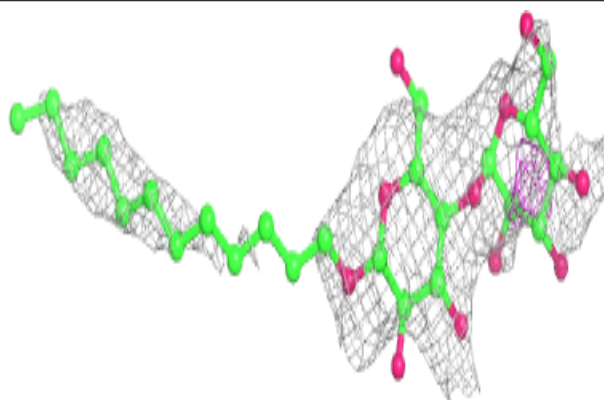


**Electron density around CLA BB 619:**

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

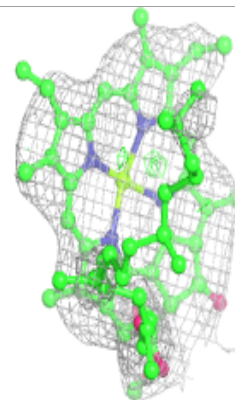
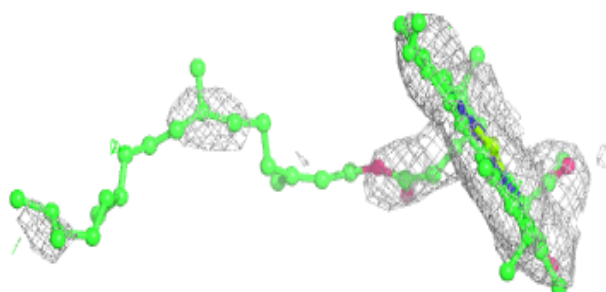
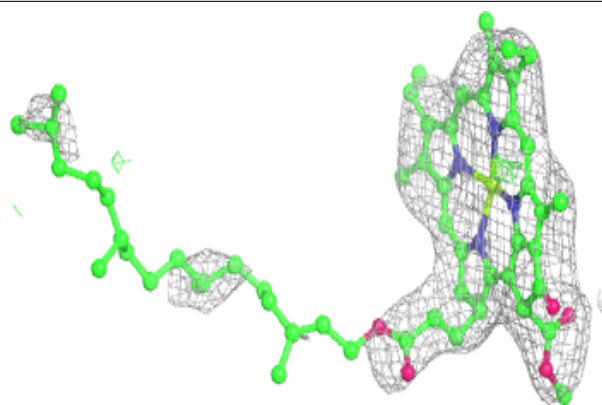
**Electron density around LMT AB 625:**

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

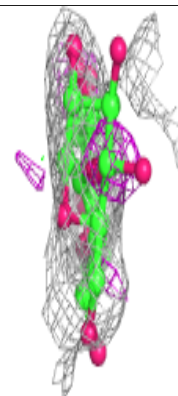
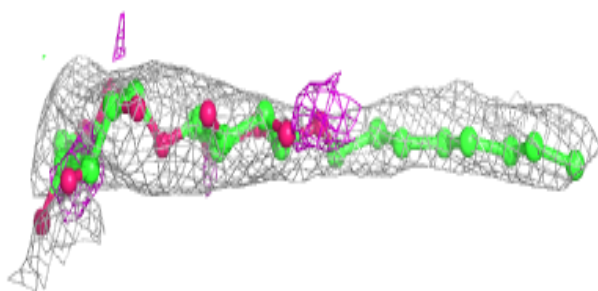
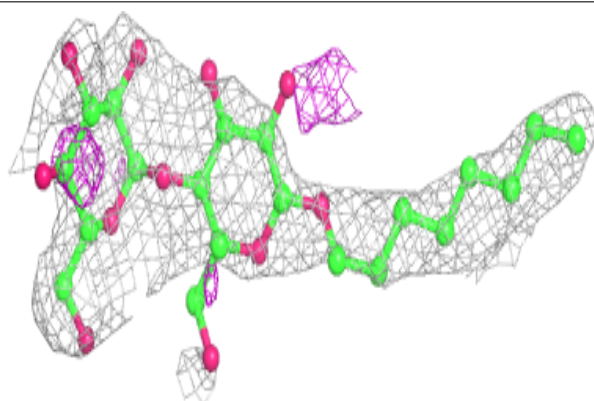


**Electron density around CLA BA 407:**

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

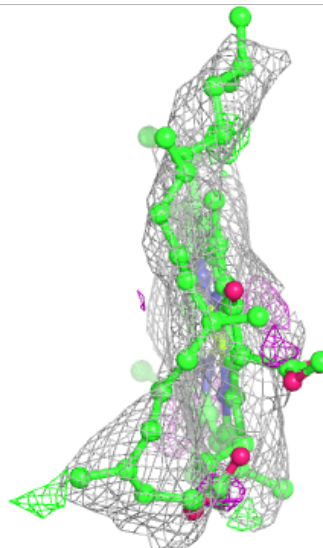
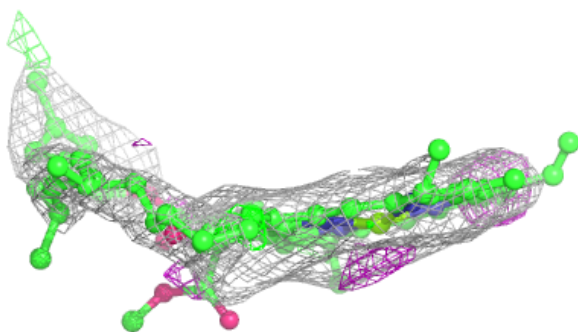
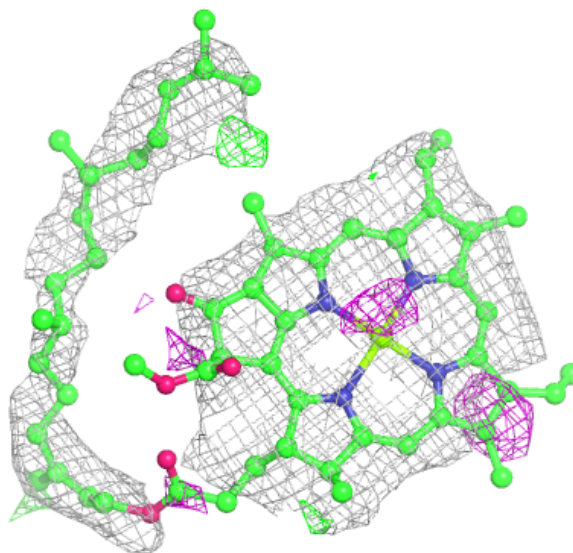
**Electron density around LMT AD 411:**

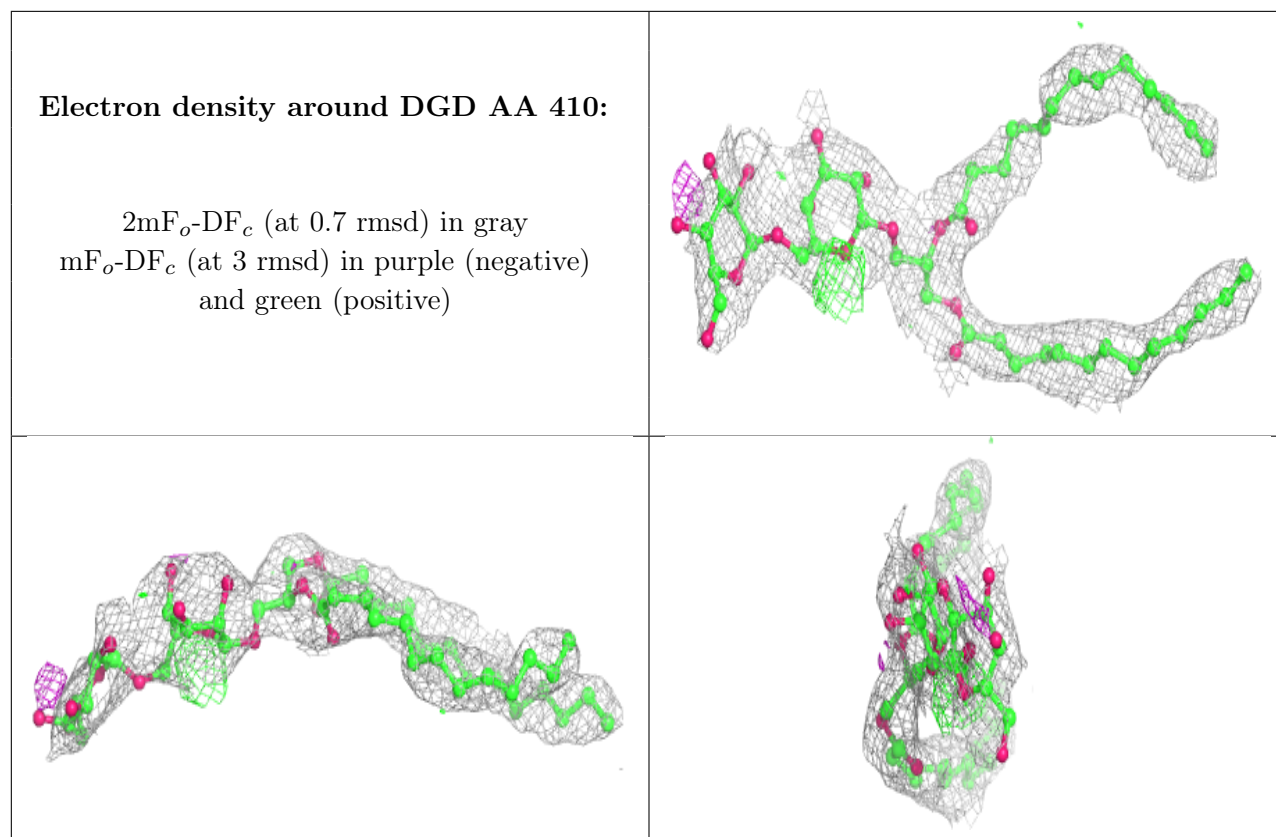
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around CLA AB 601:**

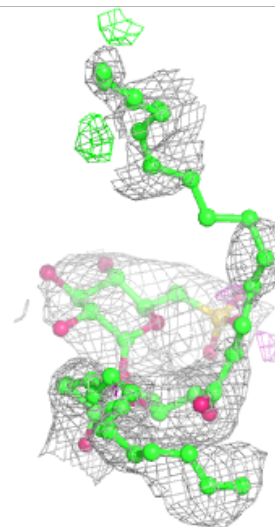
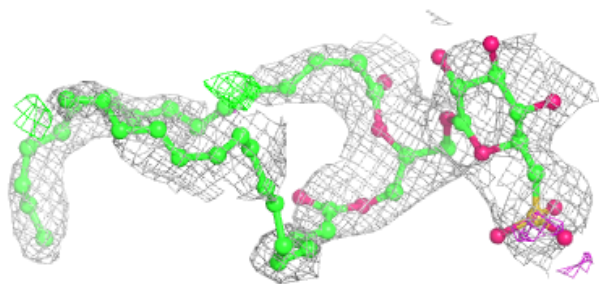
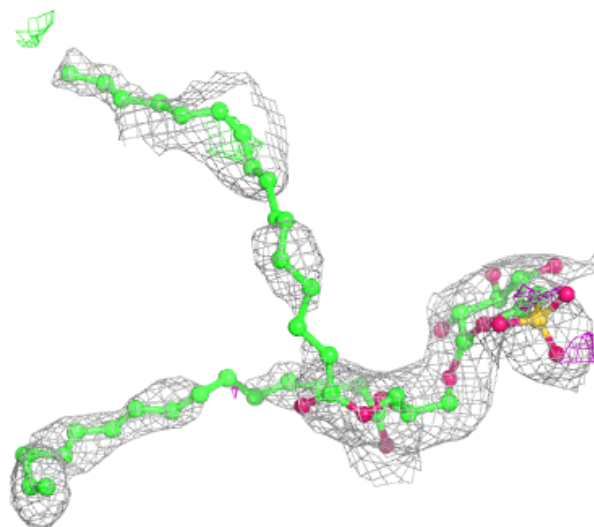
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





**Electron density around SQD BA 401:**

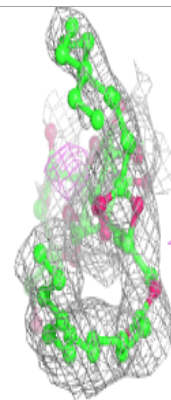
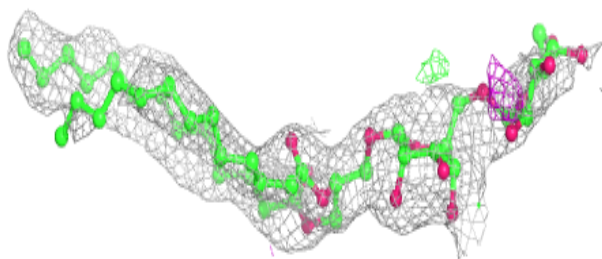
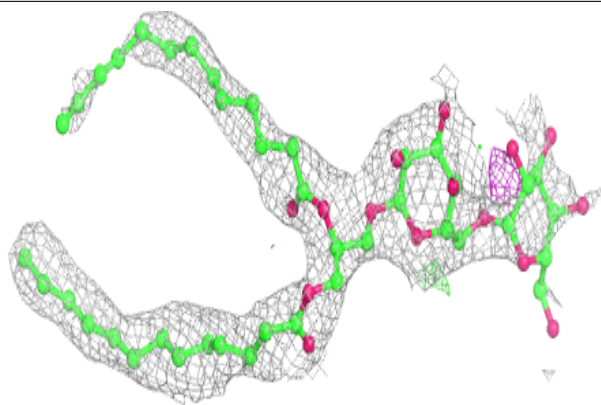
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



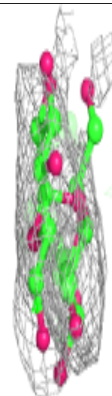
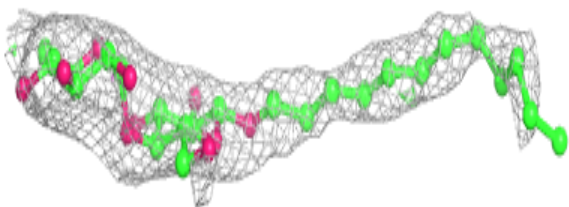
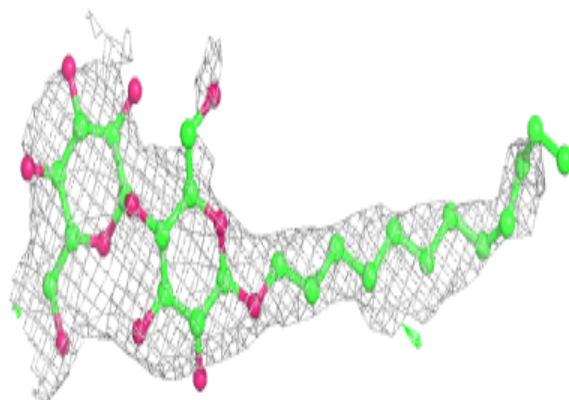


**Electron density around DGD BA 411:**

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

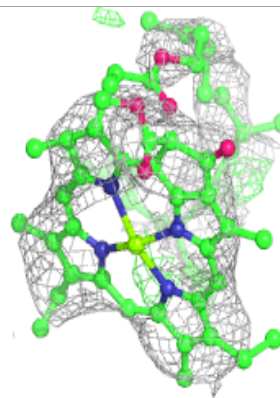
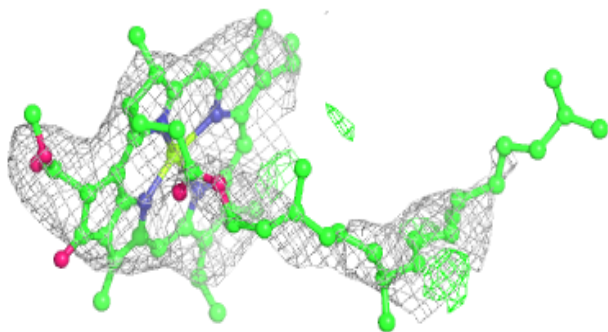
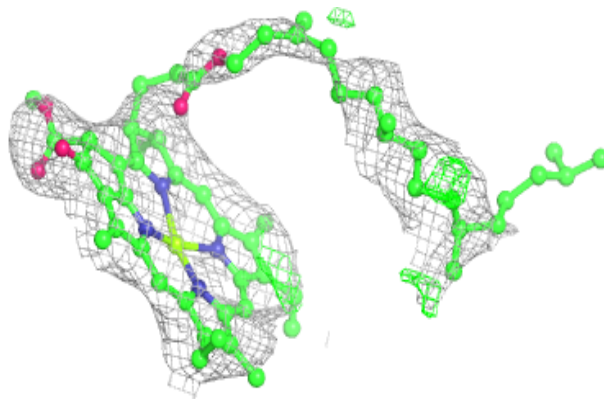
**Electron density around LMT AI 102:**

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

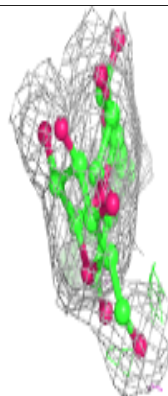
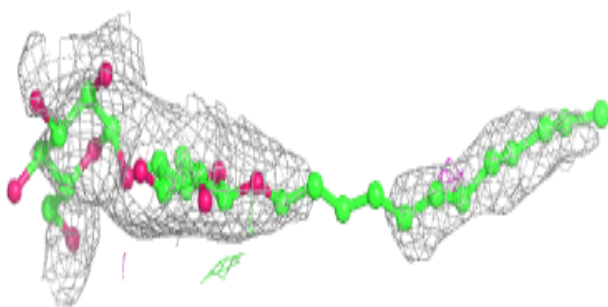
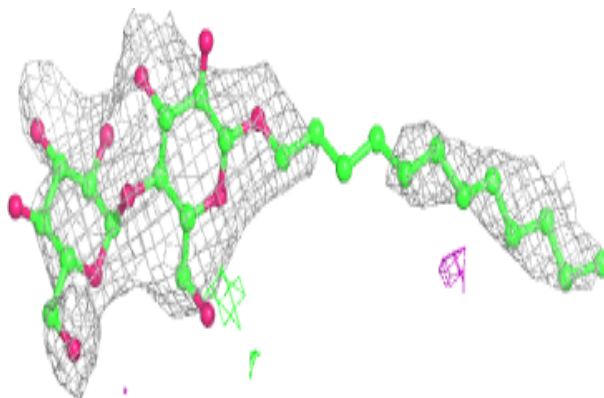


**Electron density around CLA AC 513:**

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

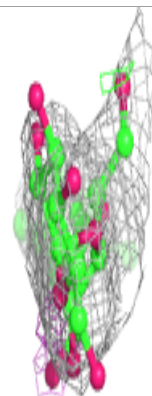
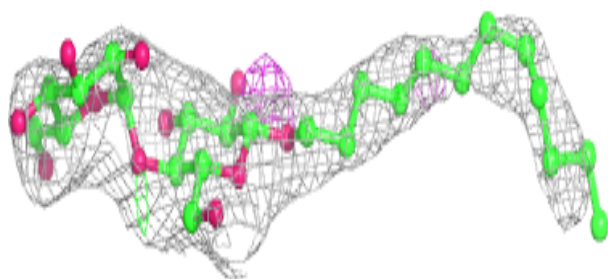
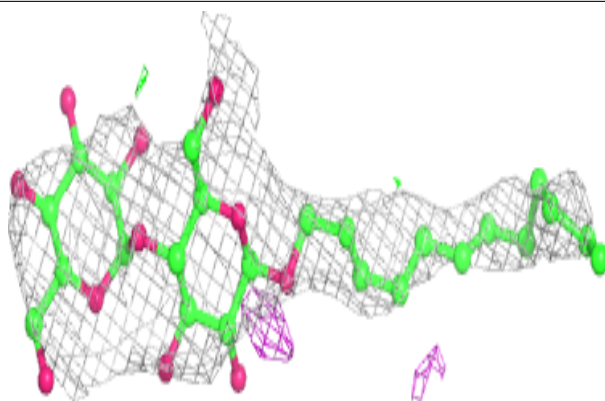
**Electron density around LMT BB 626:**

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

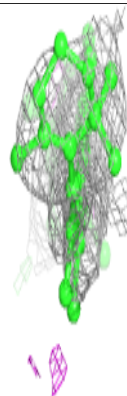
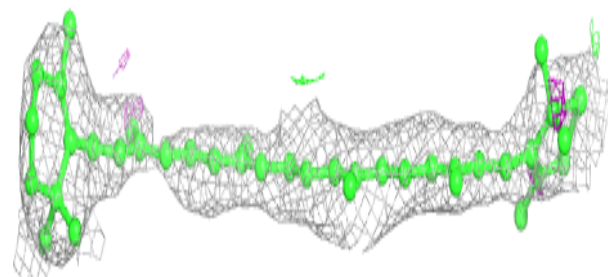
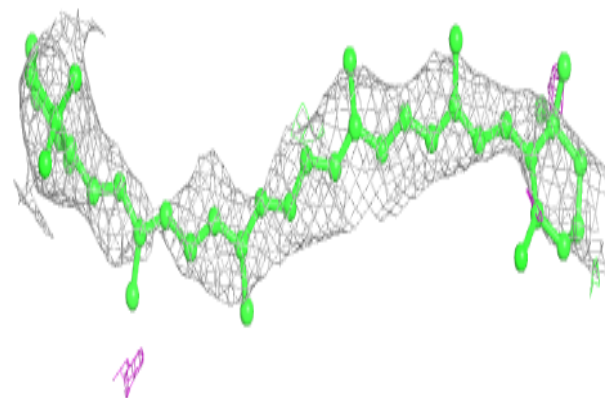


**Electron density around LMT BT 101:**

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

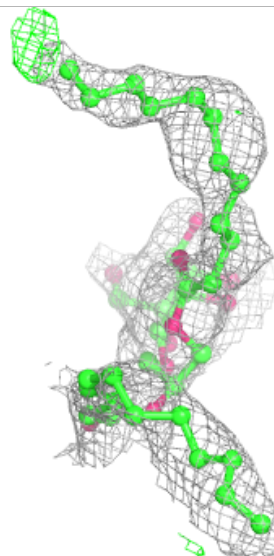
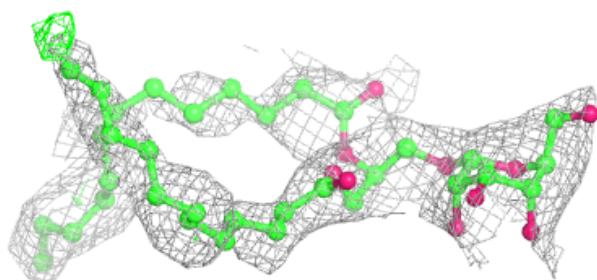
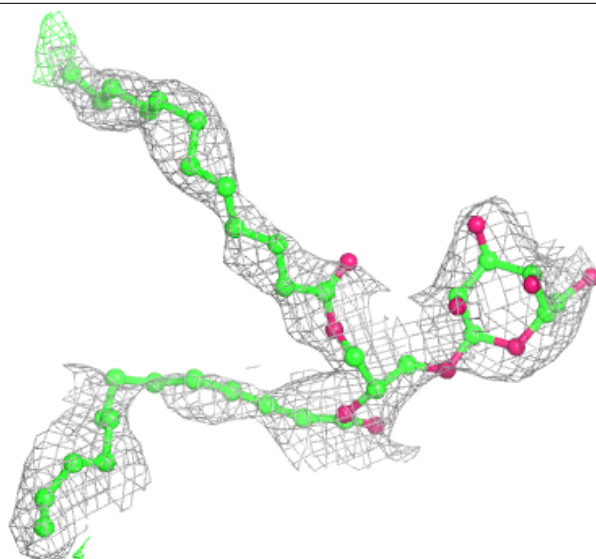
**Electron density around BCR AH 101:**

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



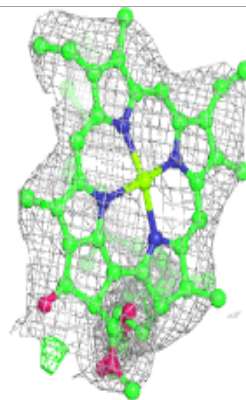
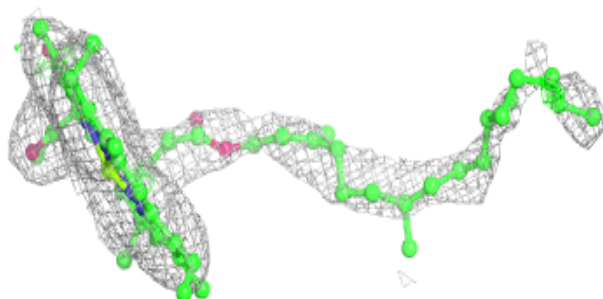
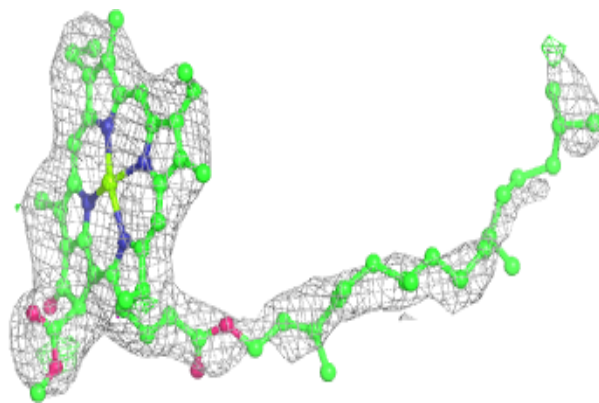
**Electron density around LMG AE 102:**

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

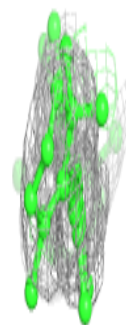
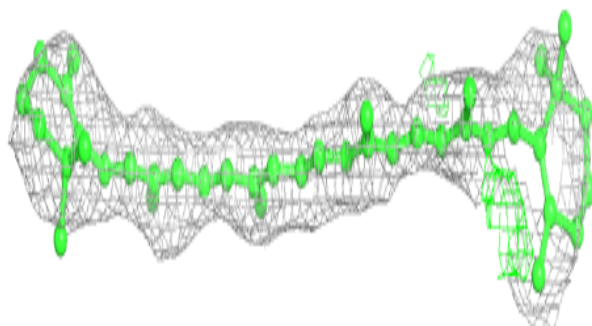
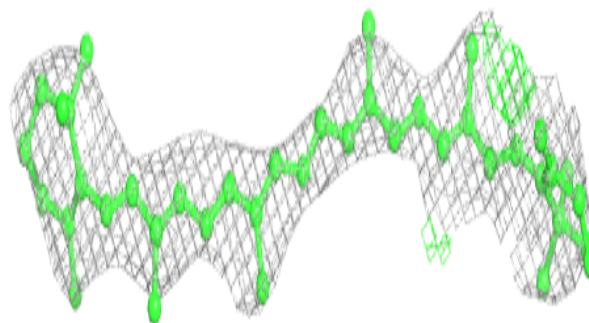


**Electron density around CLA AA 406:**

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

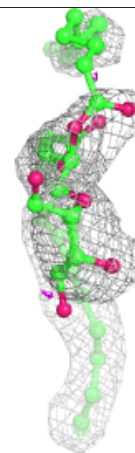
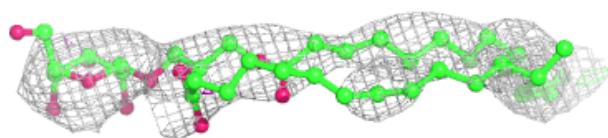
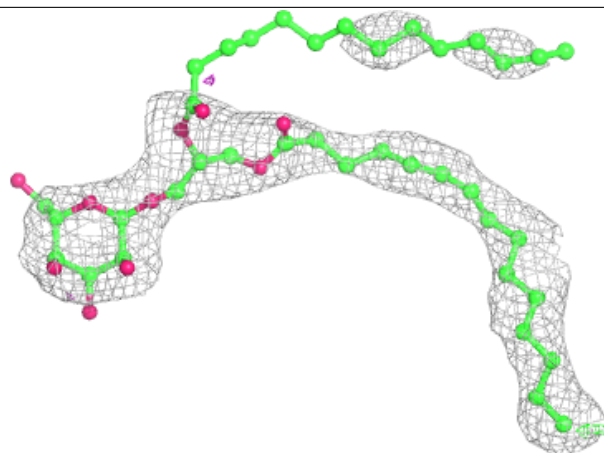
**Electron density around BCR AZ 101:**

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

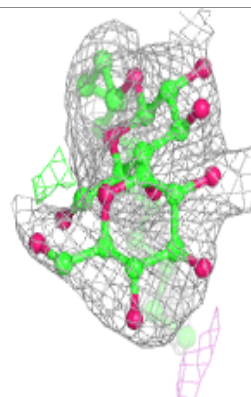
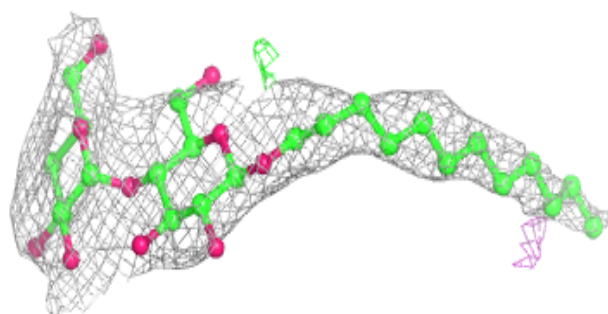
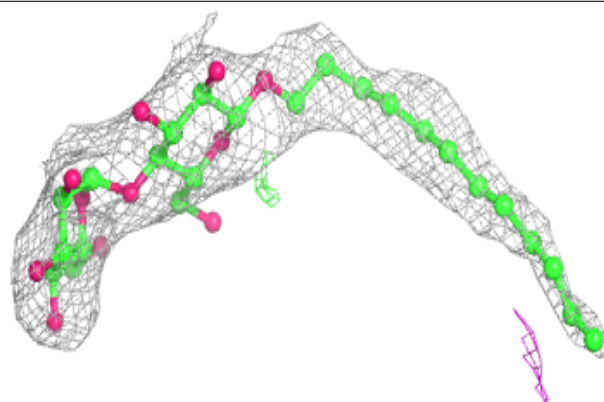


**Electron density around LMG AC 519:**

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

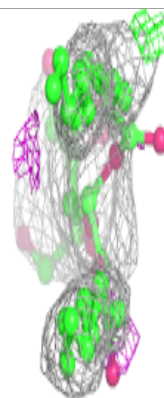
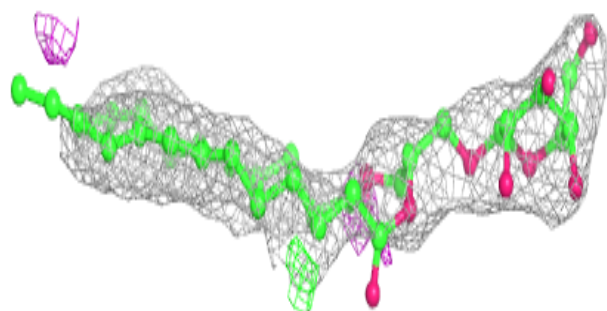
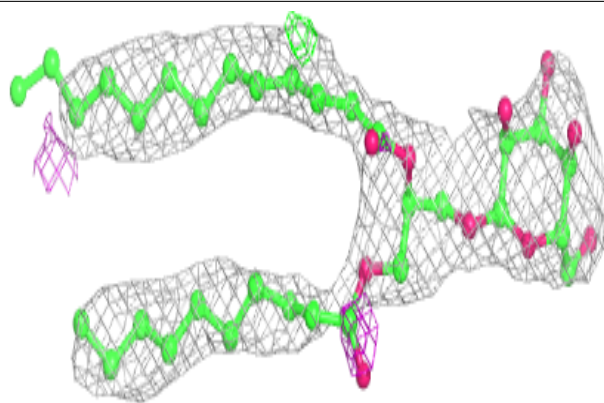
**Electron density around LMT BM 101:**

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

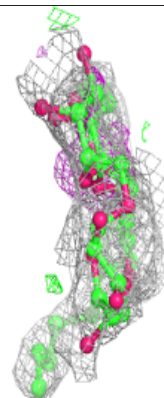
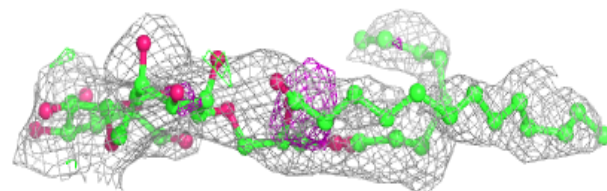
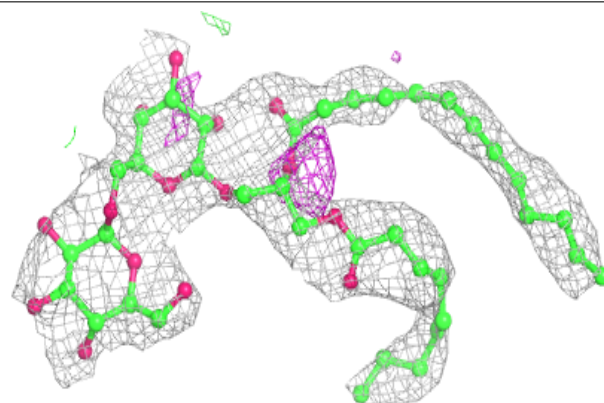


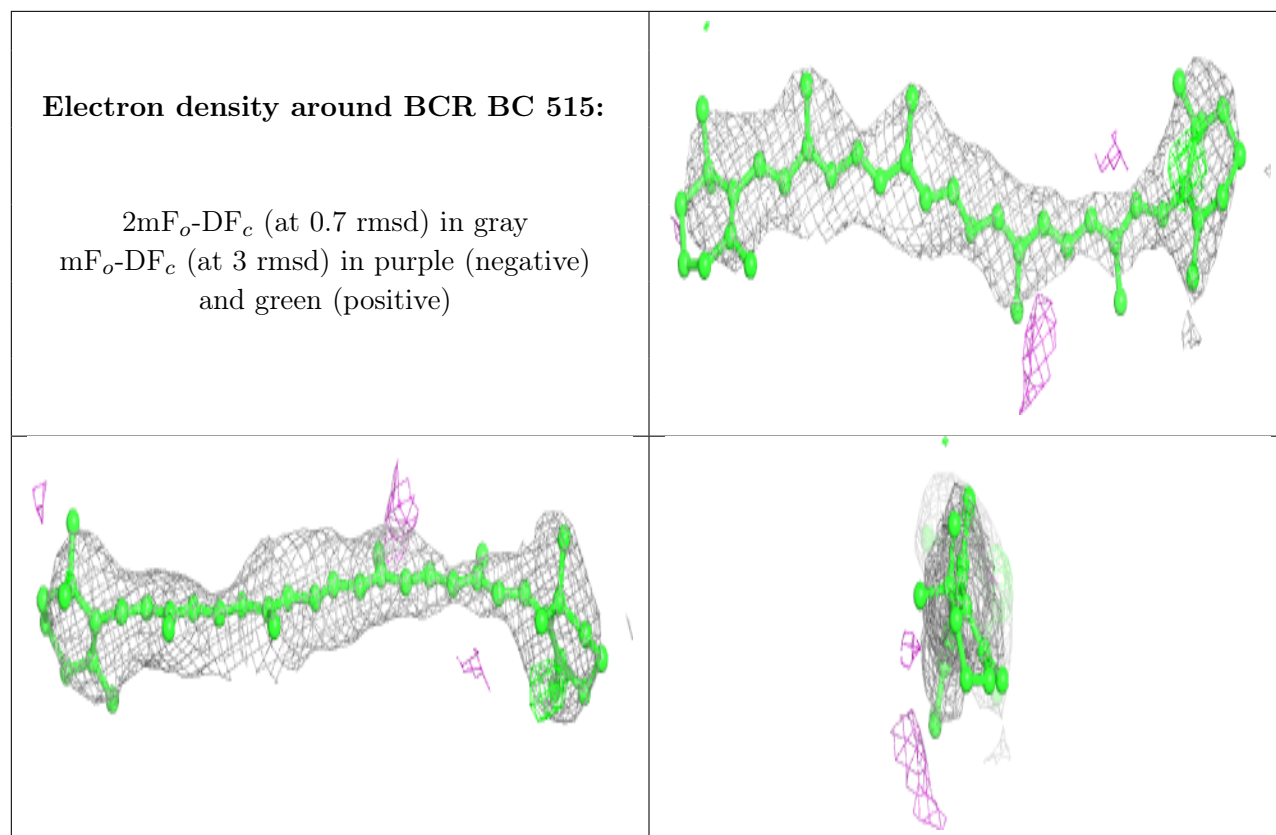
**Electron density around LMG BM 102:**

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

**Electron density around DGD AB 626:**

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

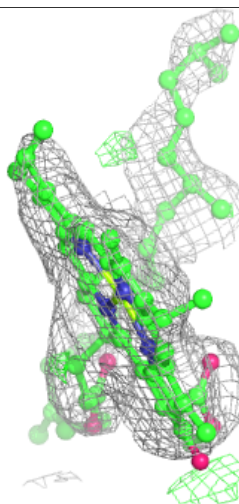
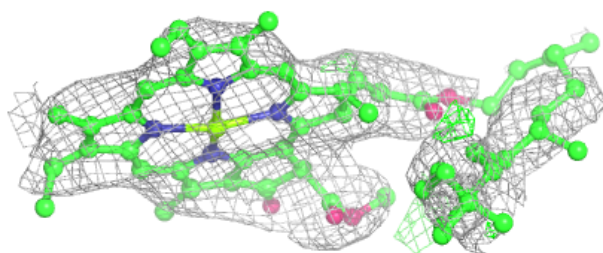
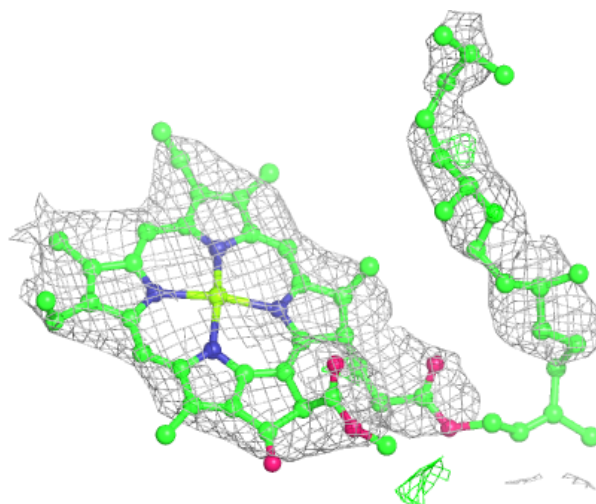






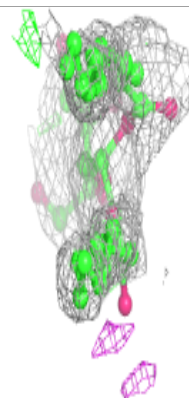
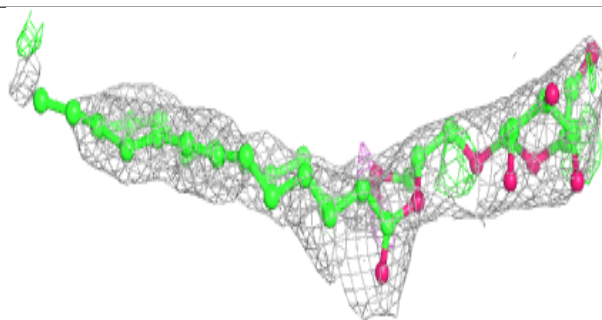
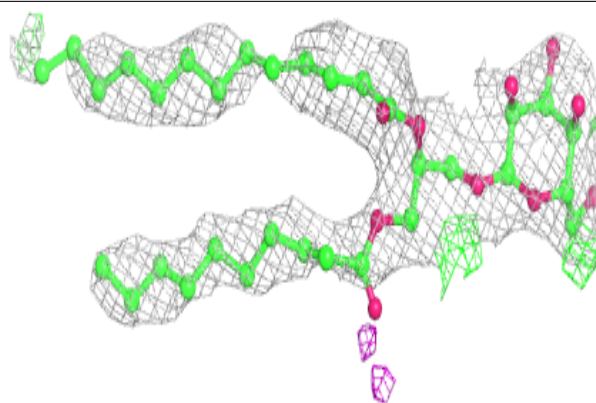
**Electron density around CLA AB 616:**

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

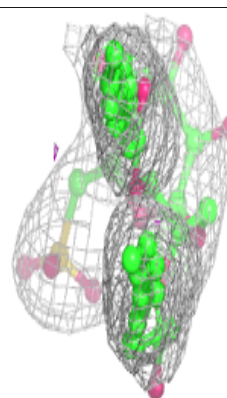
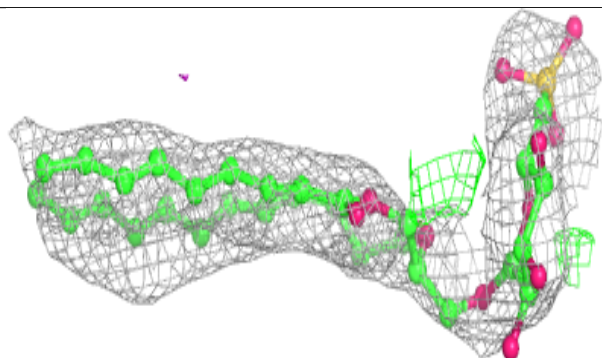
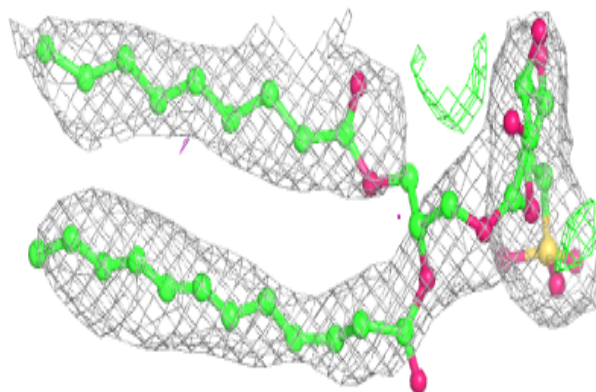


**Electron density around LMG AM 101:**

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

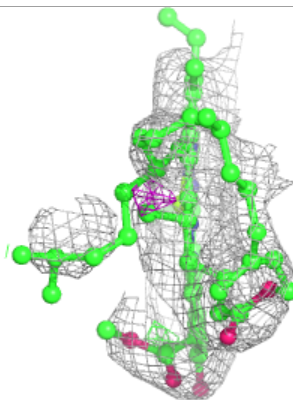
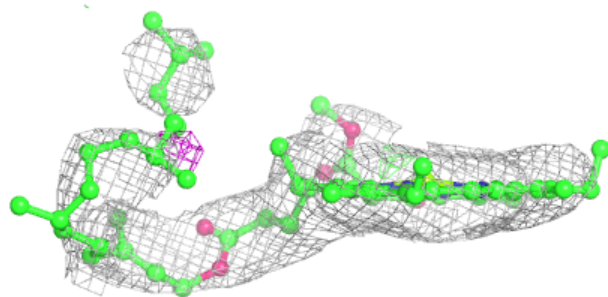
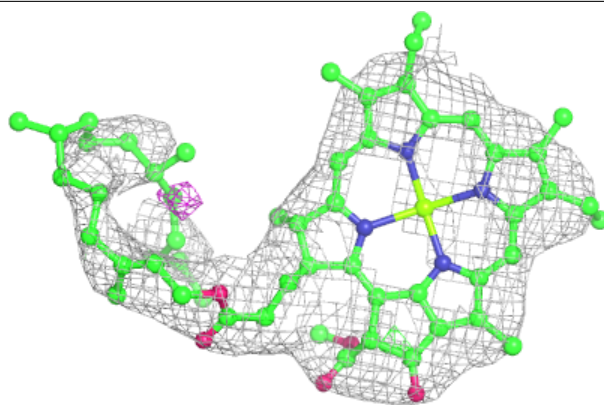
**Electron density around SQD BD 409:**

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

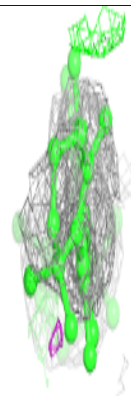
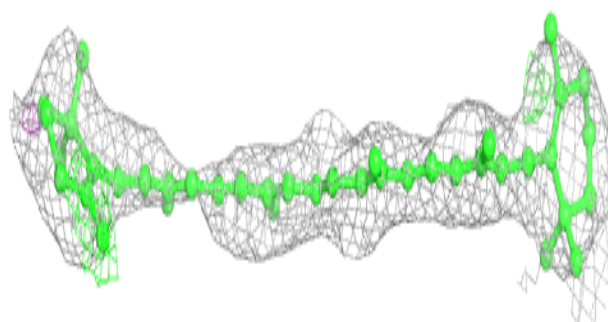
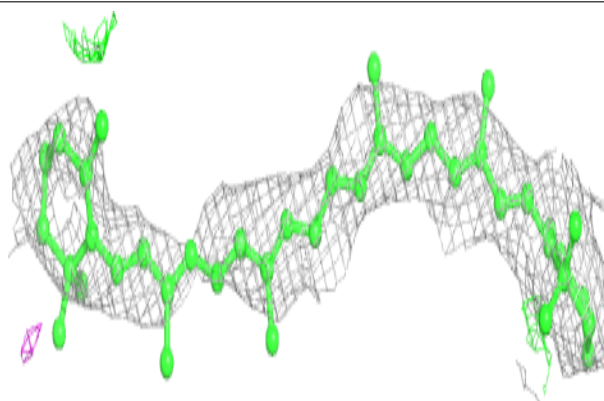


**Electron density around CLA AC 512:**

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

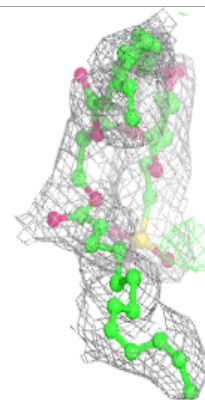
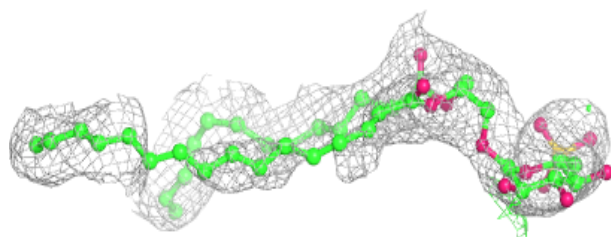
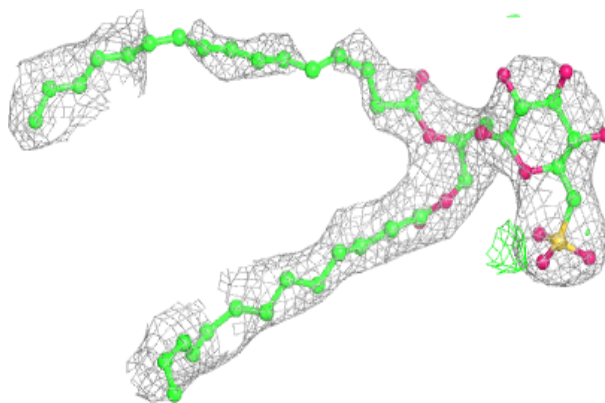
**Electron density around BCR BX 101:**

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

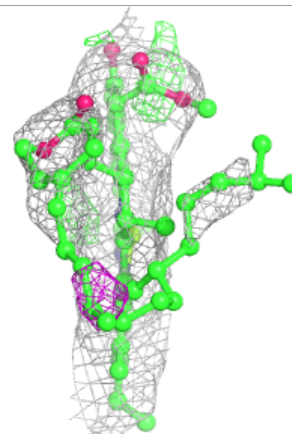
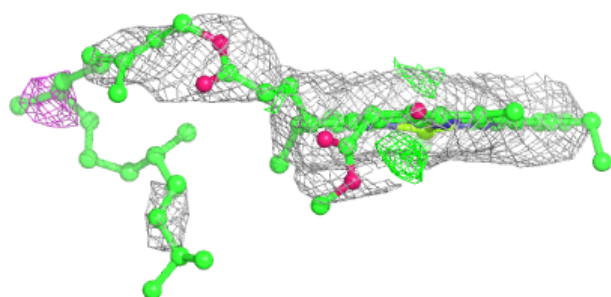
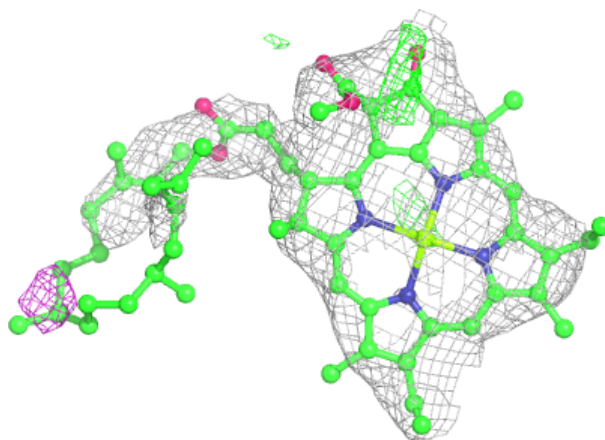


**Electron density around SQD BA 413:**

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

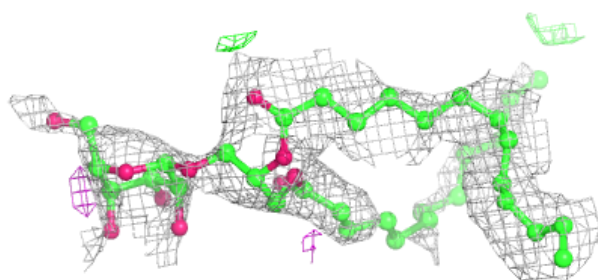
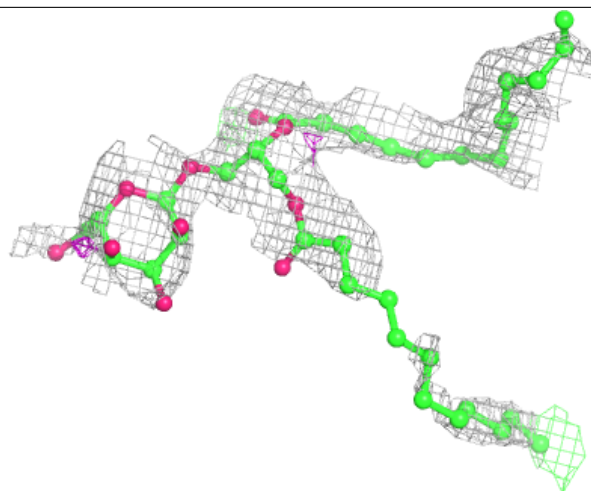
**Electron density around CLA BC 512:**

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



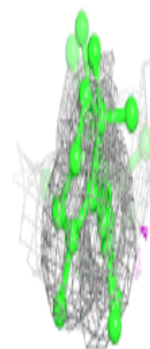
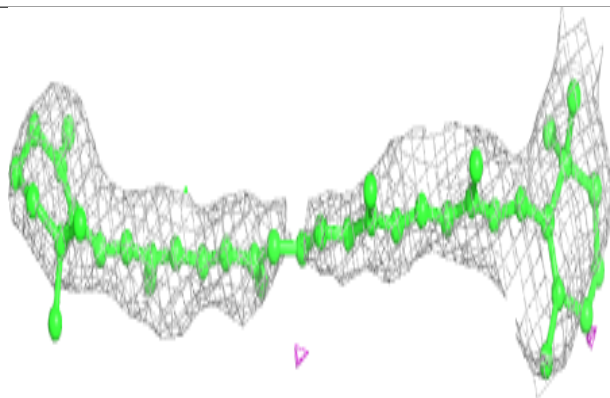
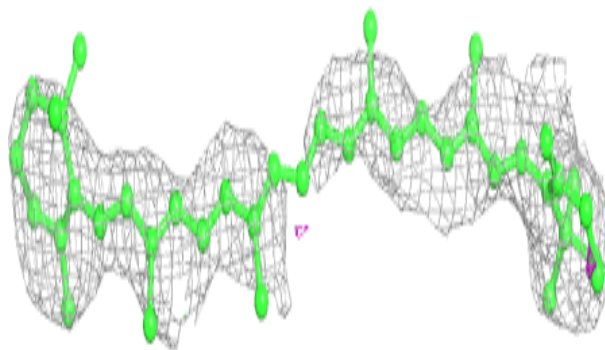
**Electron density around LMG BE 102:**

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

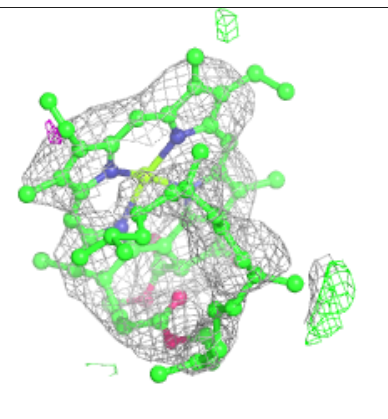
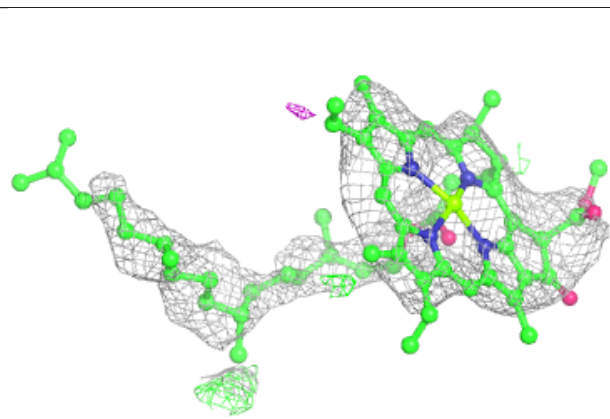
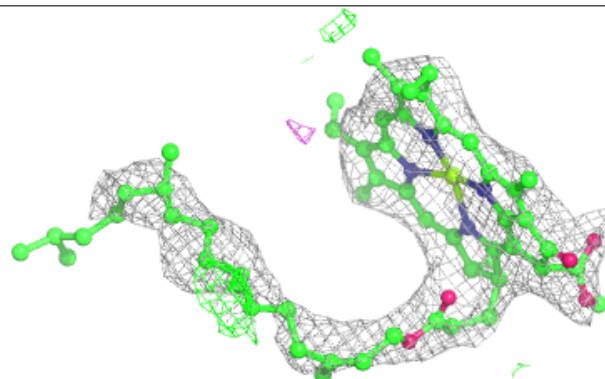


**Electron density around BCR BZ 101:**

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

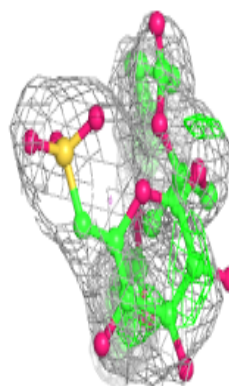
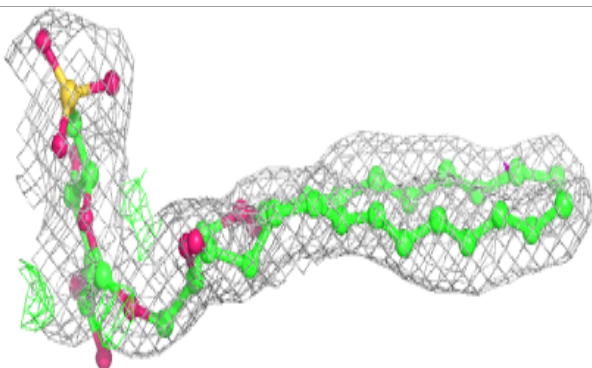
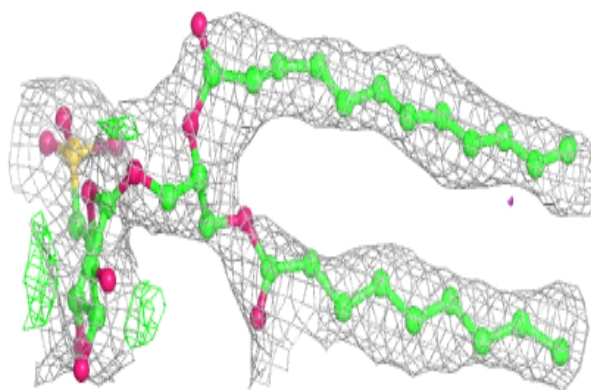
**Electron density around CLA BC 513:**

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

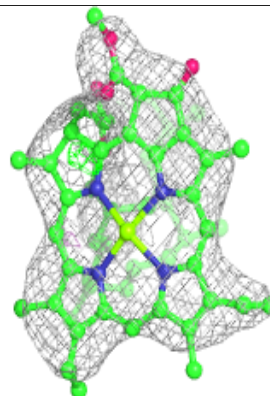
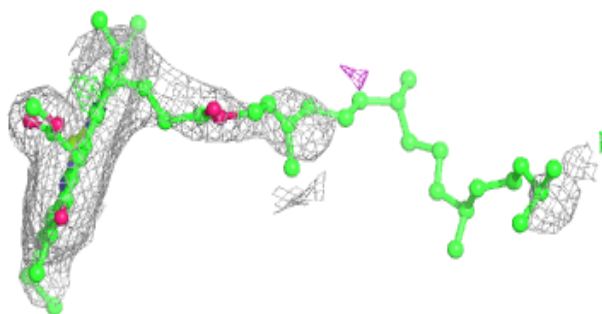
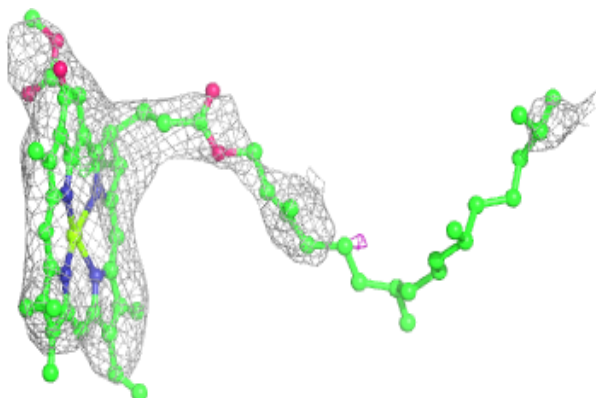


**Electron density around SQD AD 409:**

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

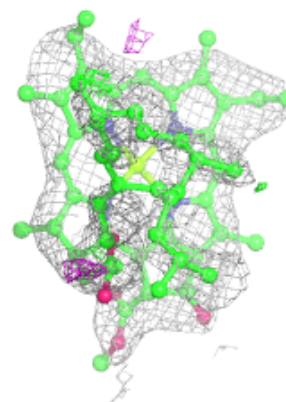
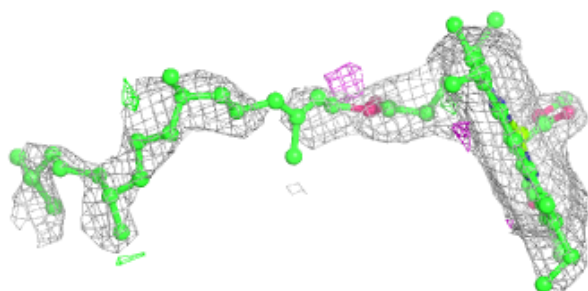
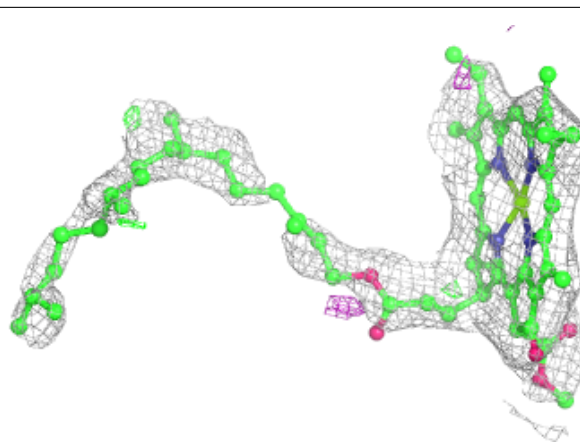
**Electron density around CLA AD 404:**

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

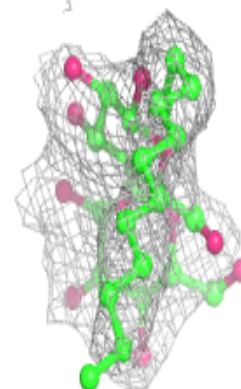
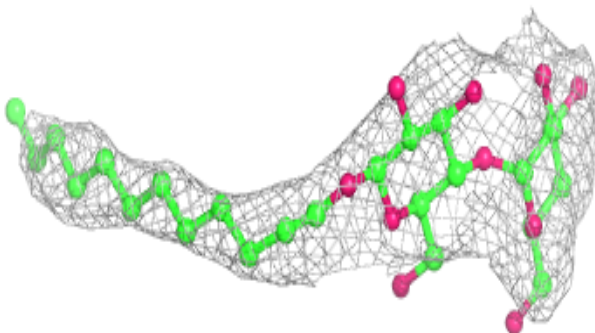
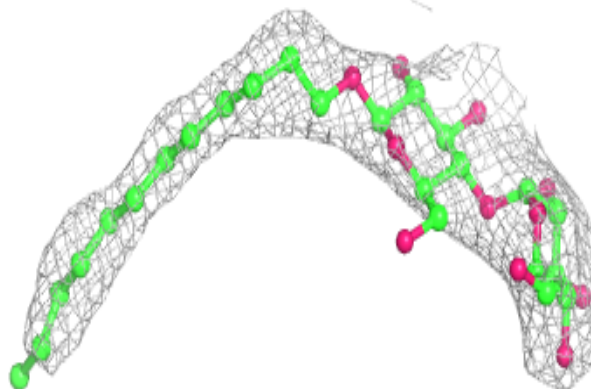


**Electron density around CLA BD 404:**

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

**Electron density around LMT AM 102:**

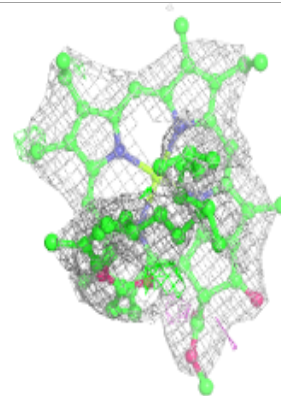
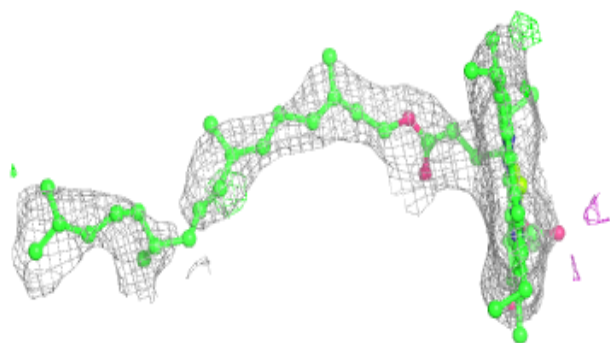
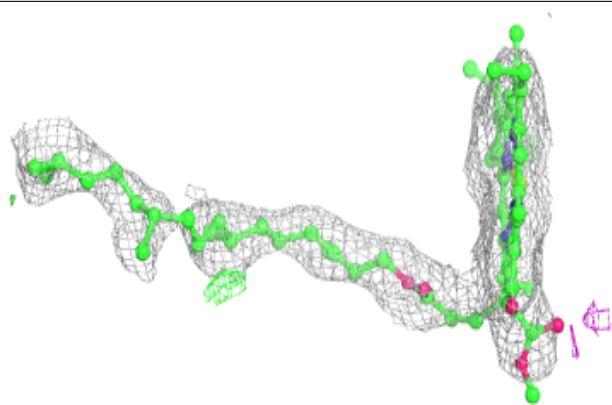
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



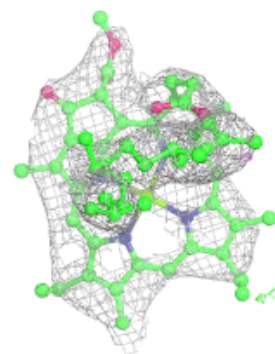
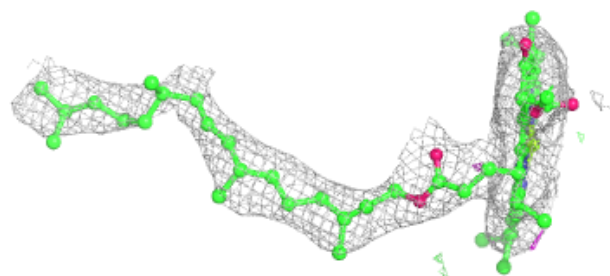
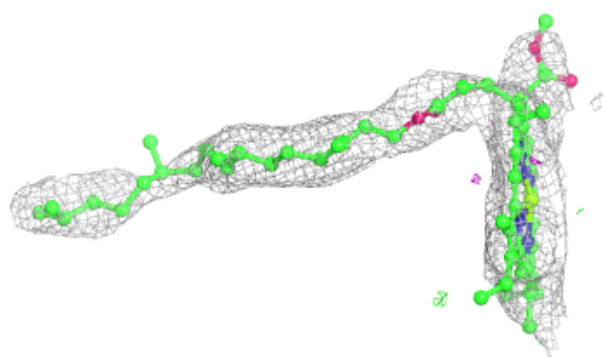


**Electron density around CLA BB 609:**

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

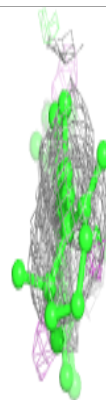
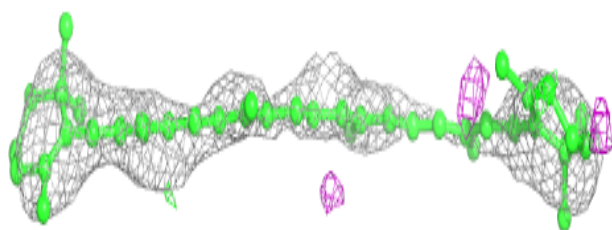
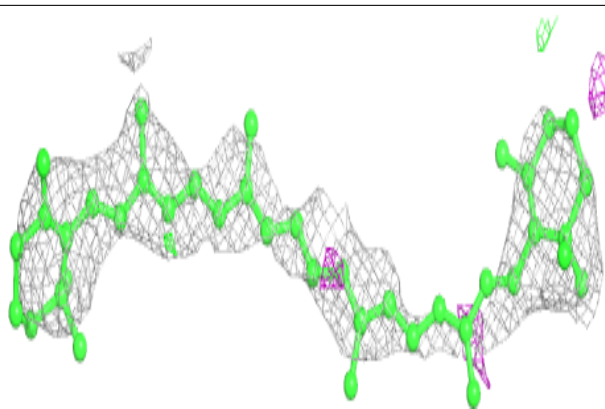
**Electron density around CLA AB 606:**

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

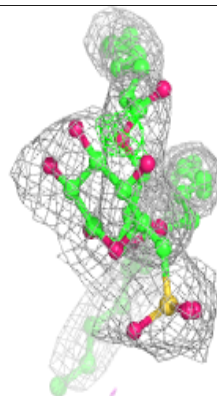
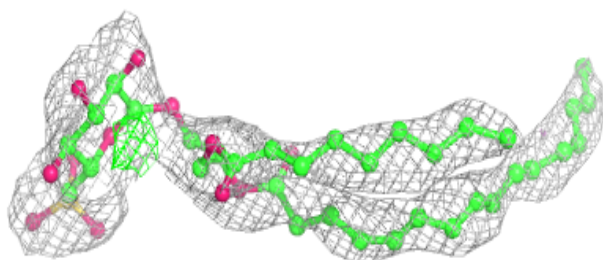
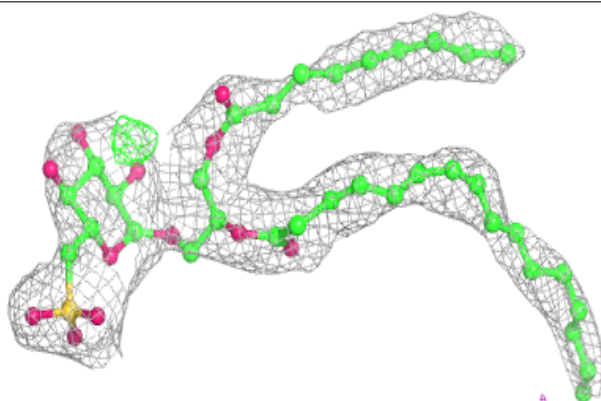


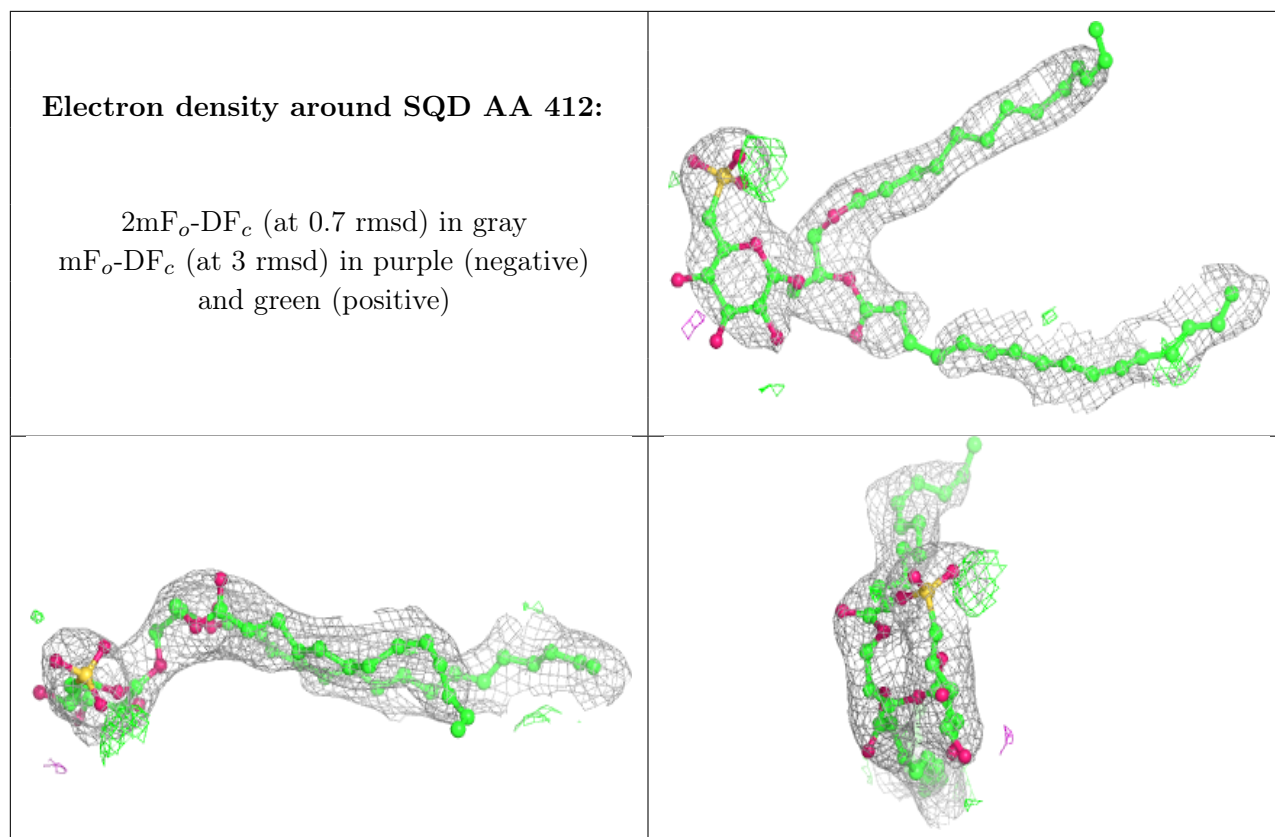
**Electron density around BCR BK 102:**

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

**Electron density around SQD BL 101:**

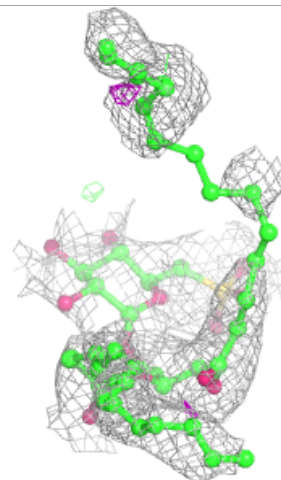
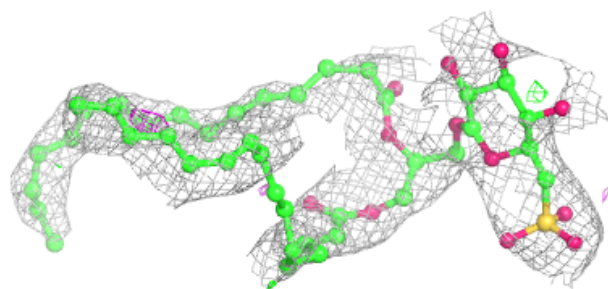
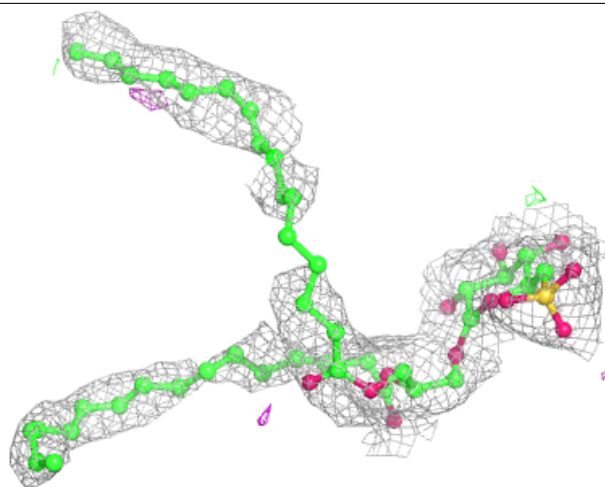
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

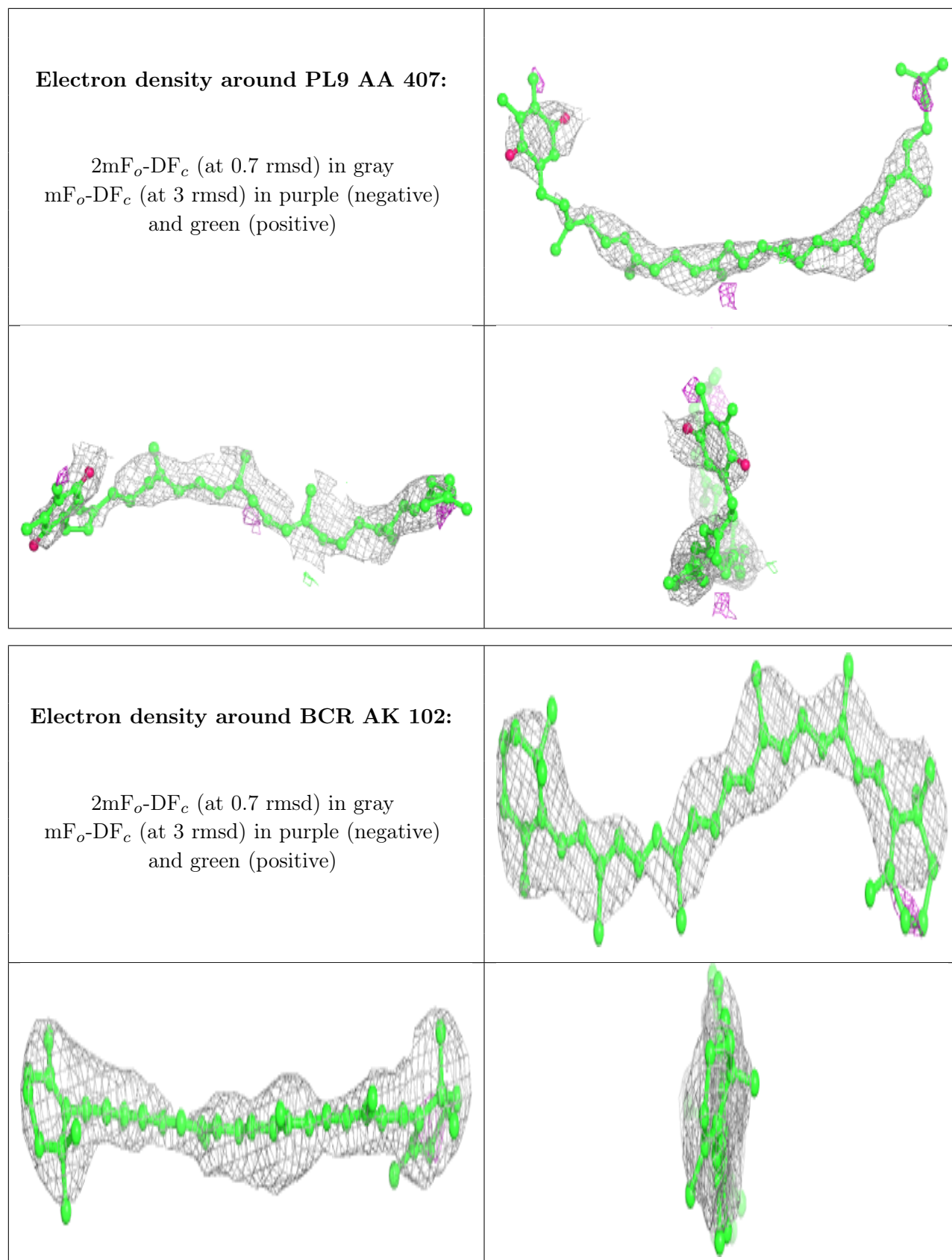


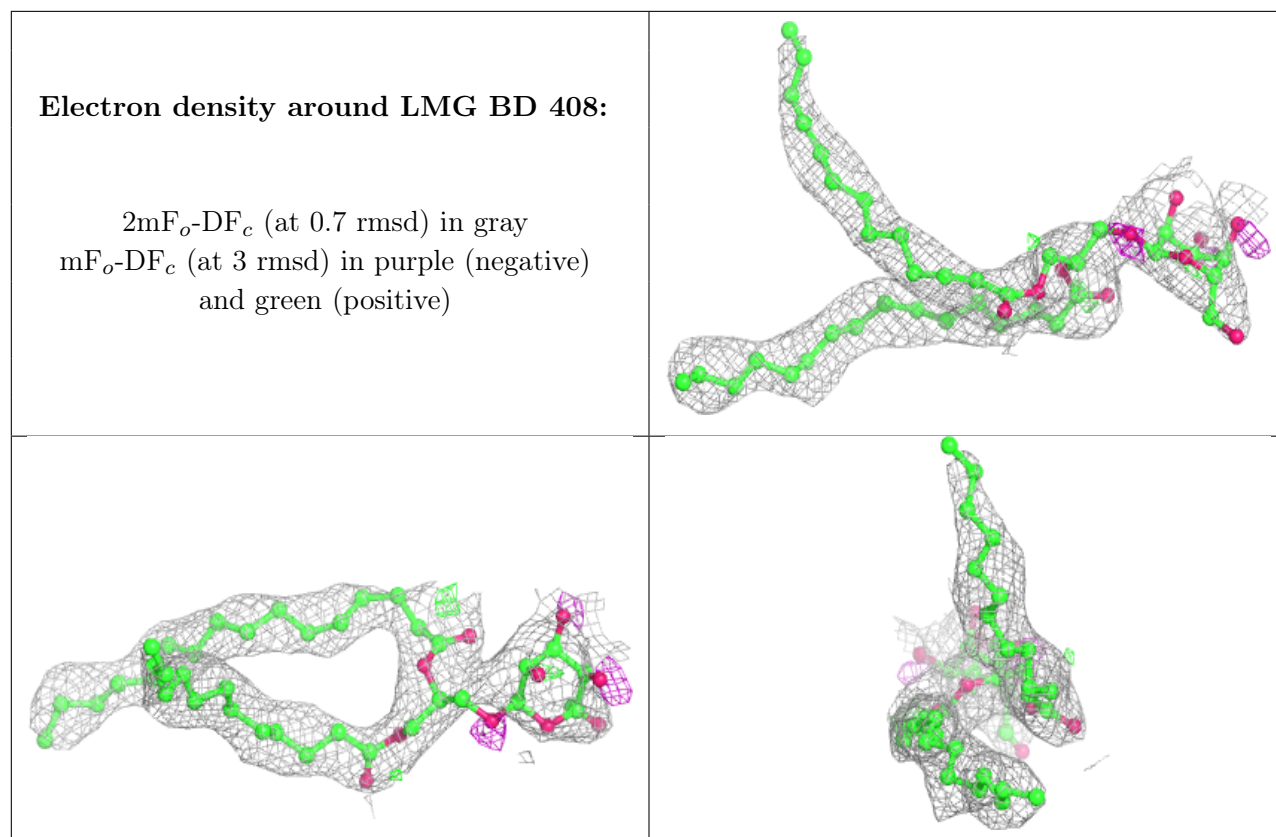


**Electron density around SQD AA 415:**

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

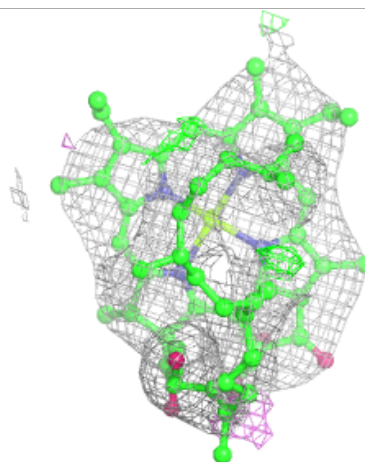
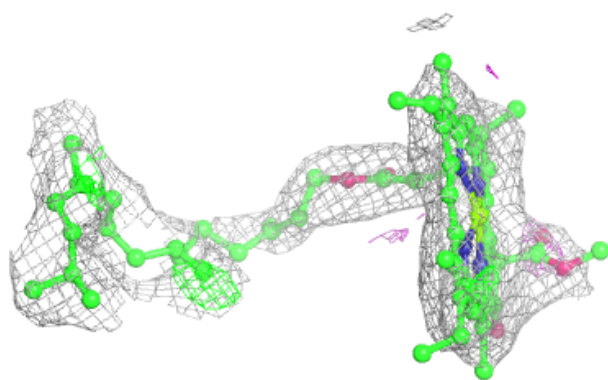
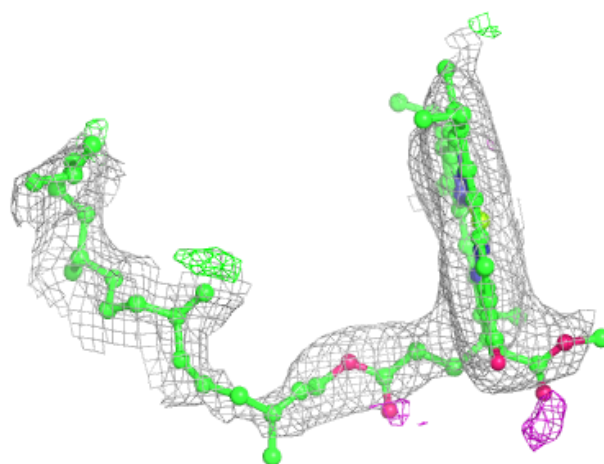






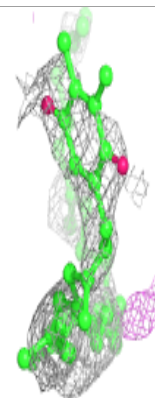
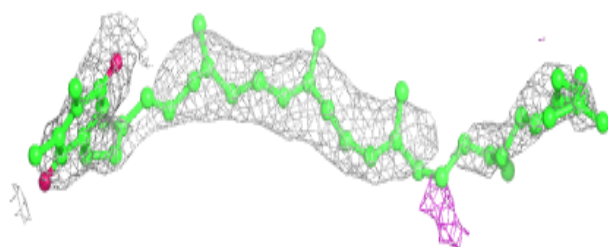
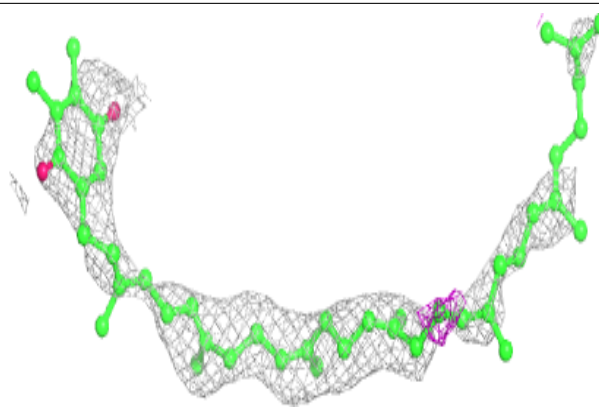
**Electron density around CLA AC 506:**

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

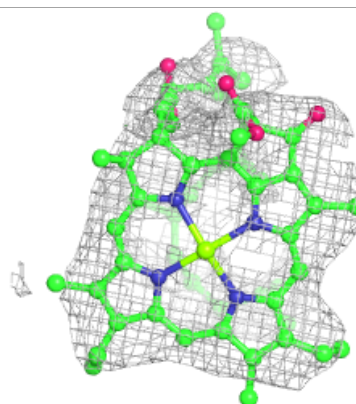
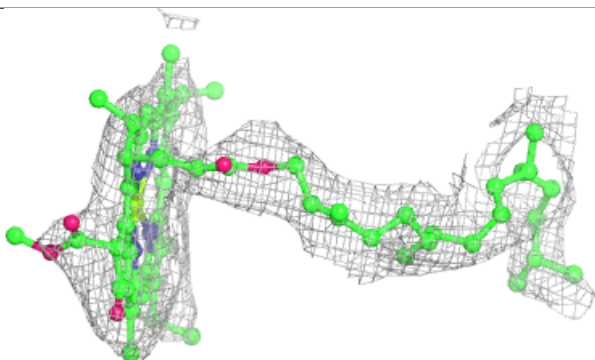
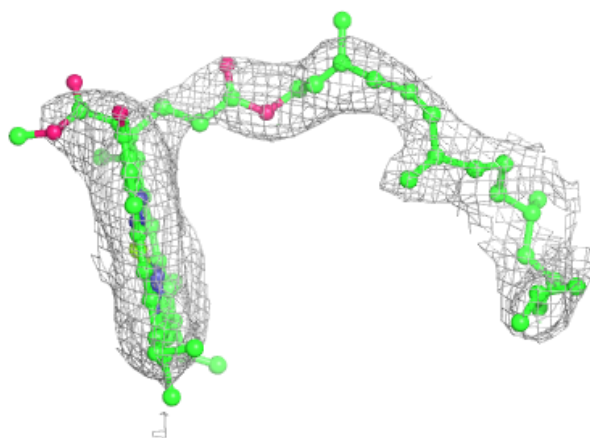


**Electron density around PL9 BA 408:**

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

**Electron density around CLA BC 506:**

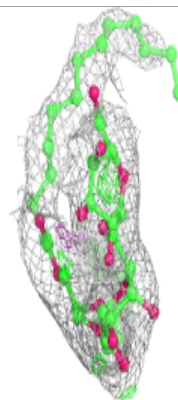
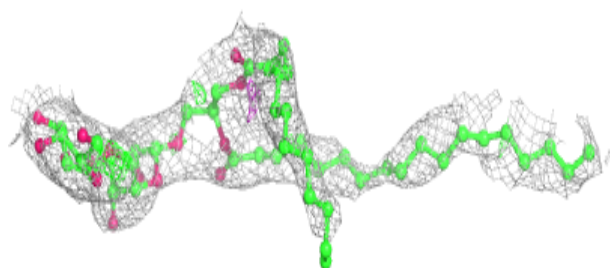
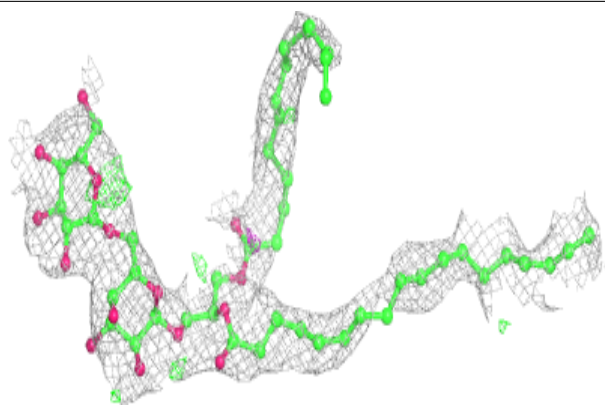
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



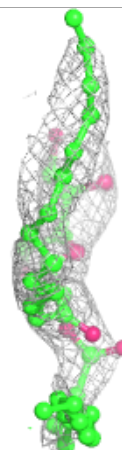
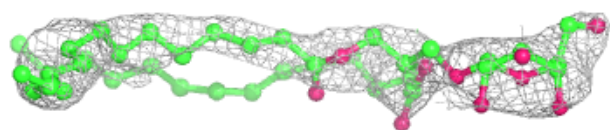
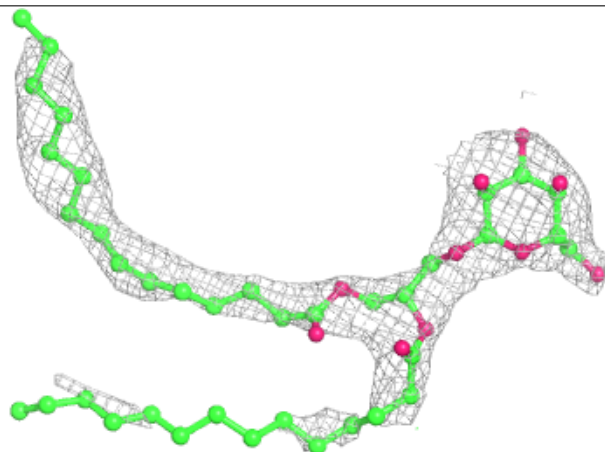


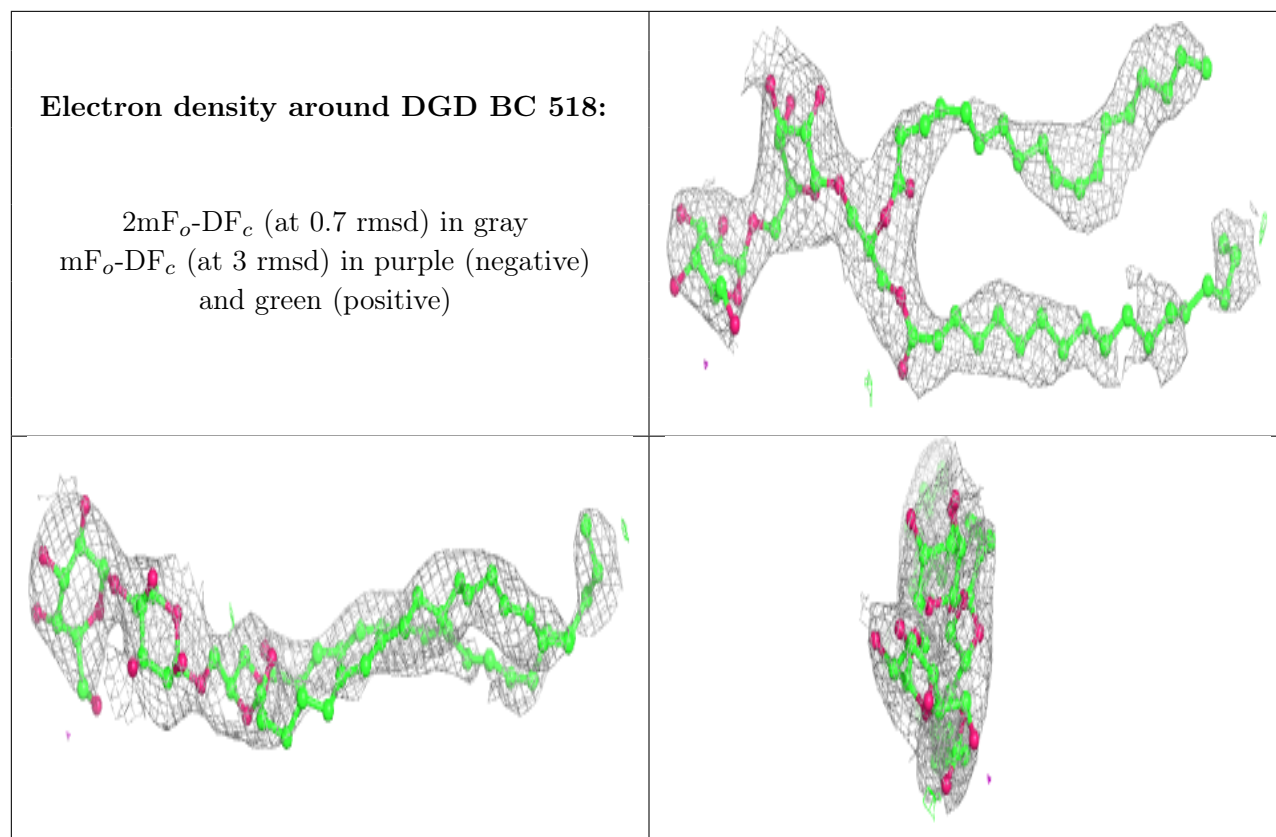
**Electron density around DGD BC 517:**

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

**Electron density around LMG BC 519:**

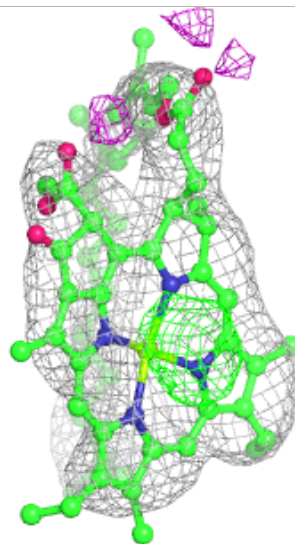
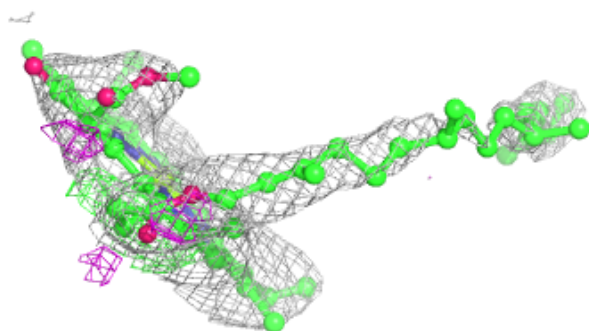
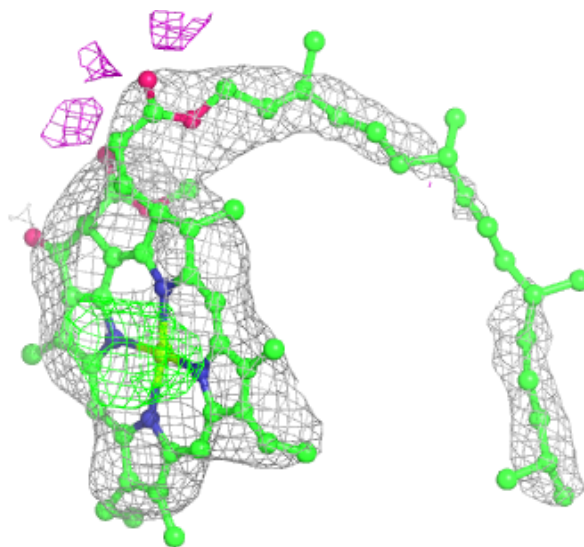
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





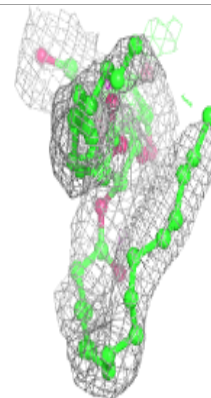
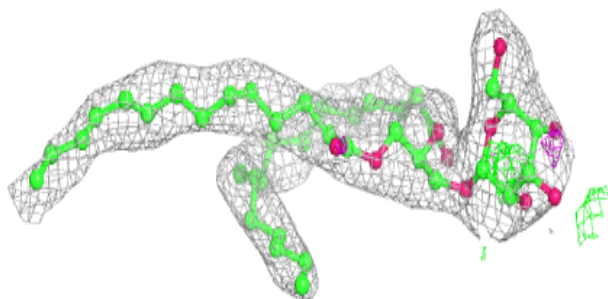
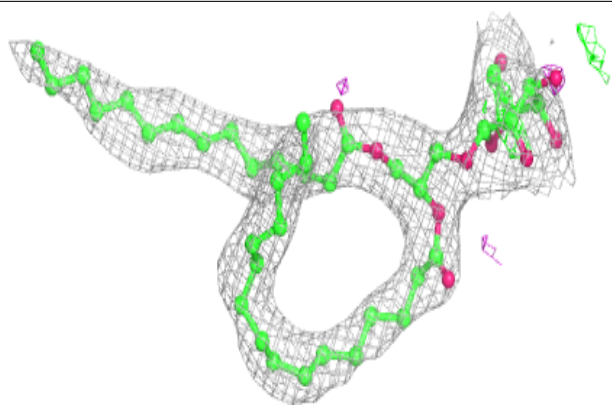
**Electron density around CLA AC 507:**

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

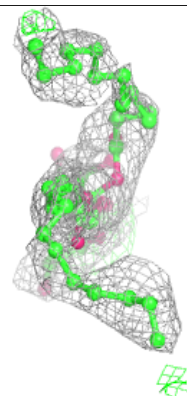
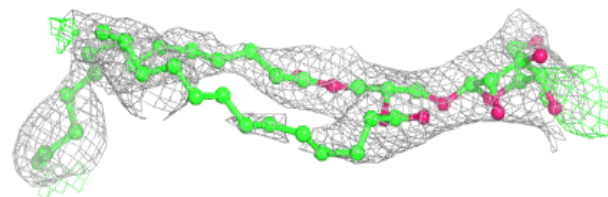
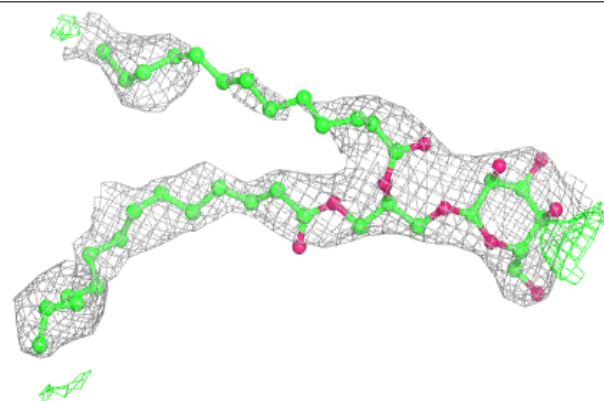


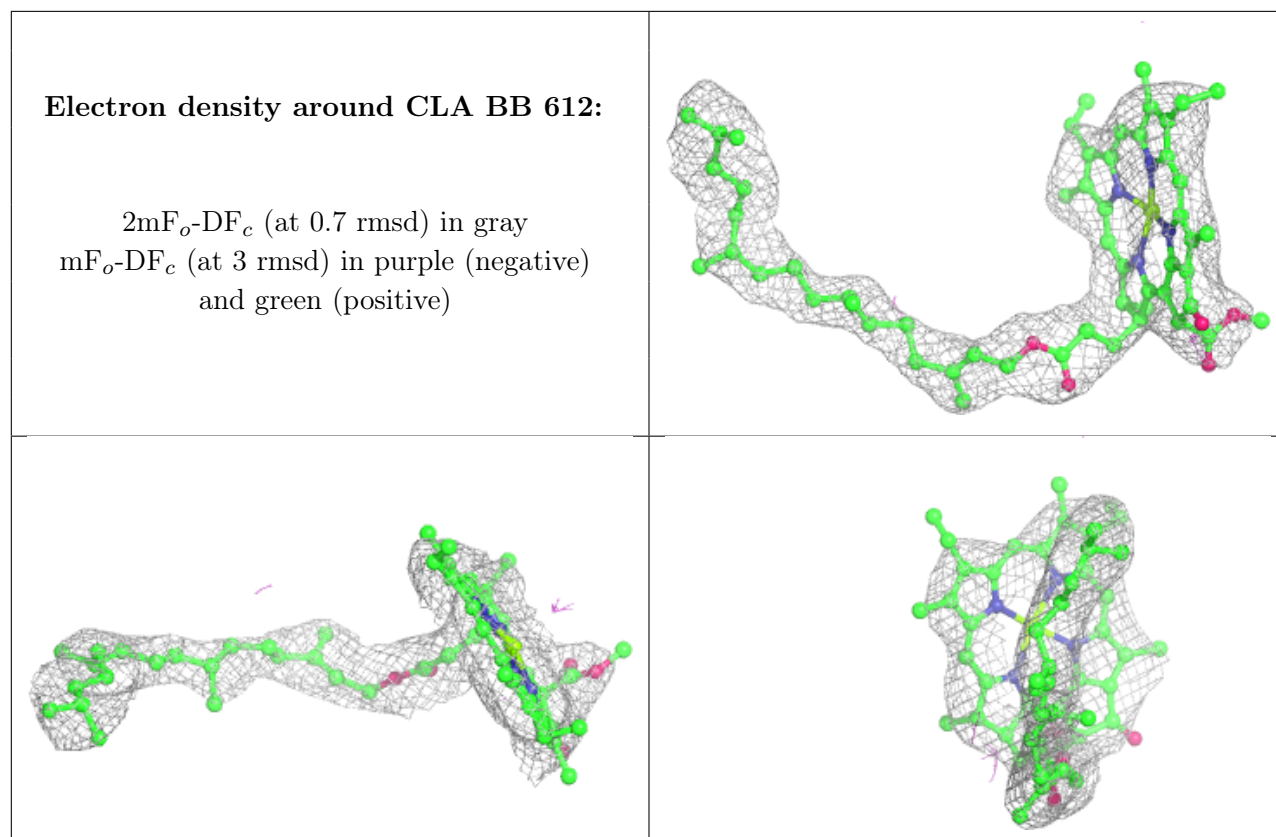
**Electron density around LMG AB 621:**

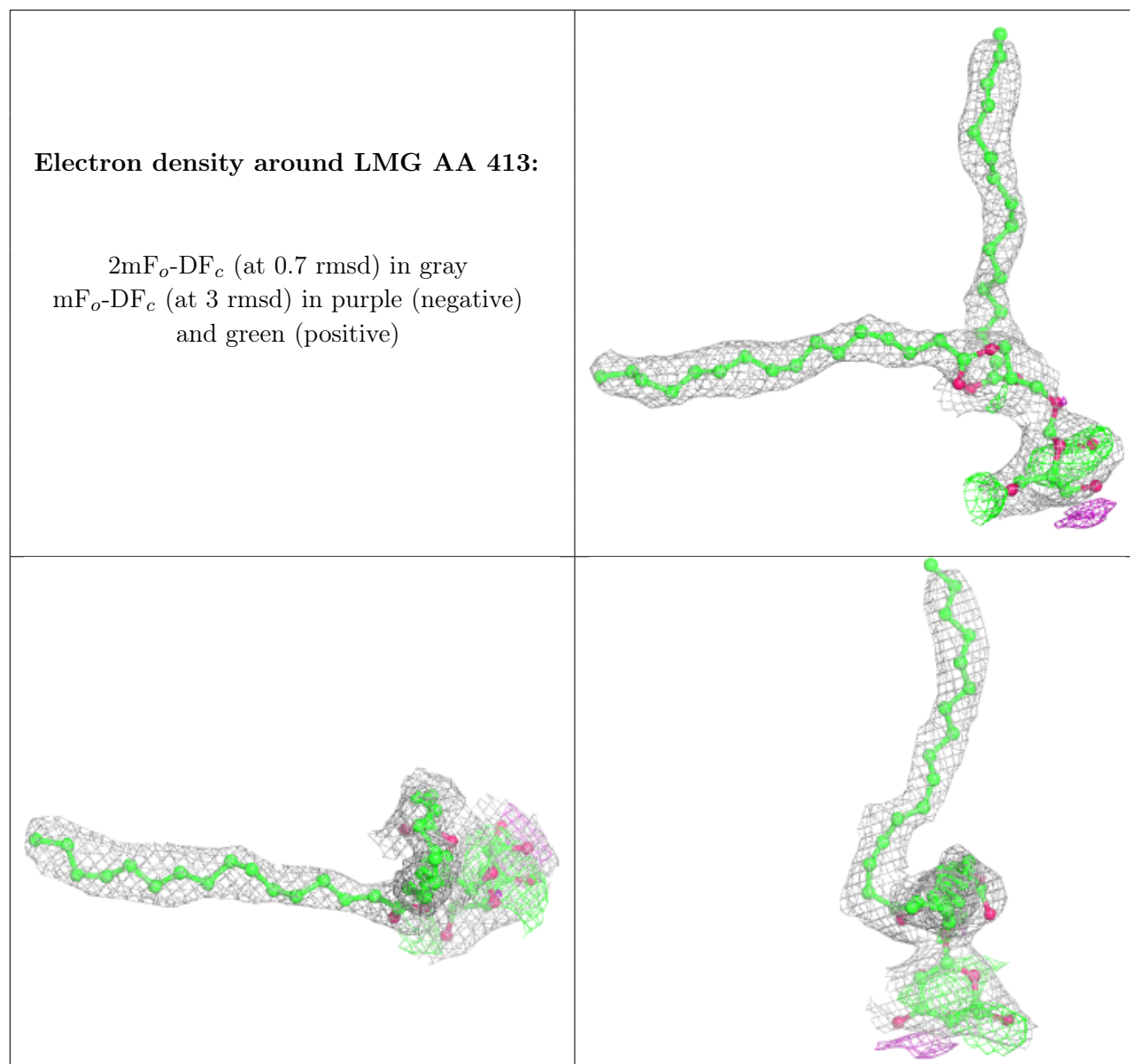
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around LMG BD 407:**

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

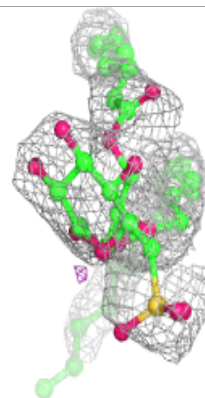
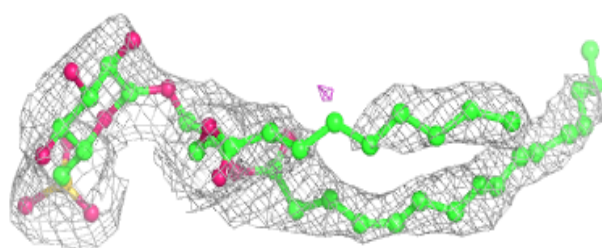
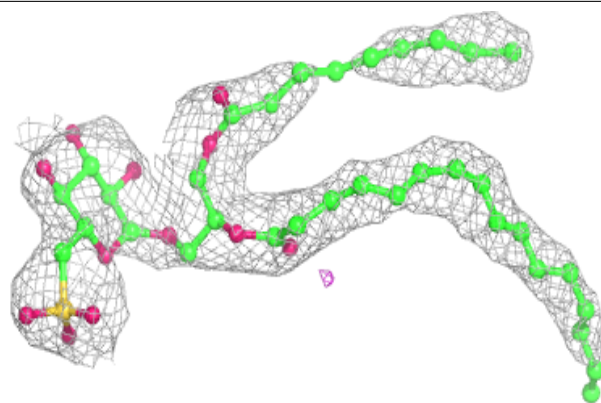




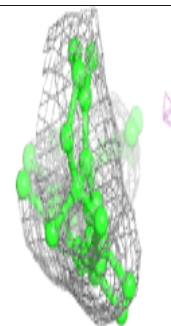
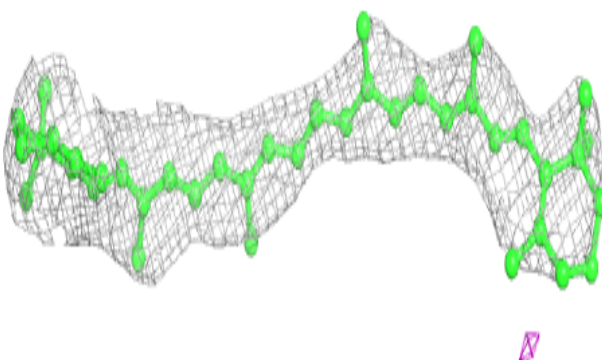
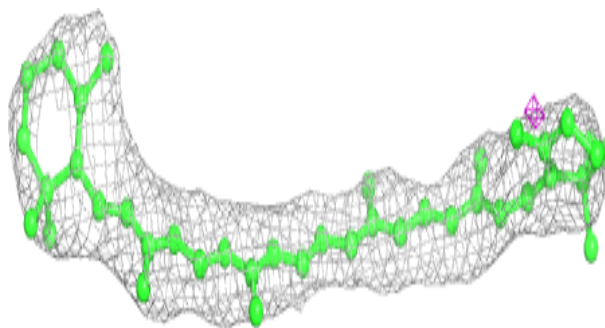


**Electron density around SQD BB 601:**

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

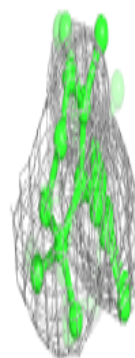
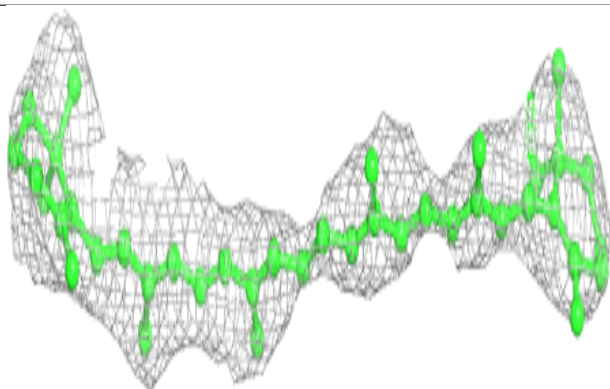
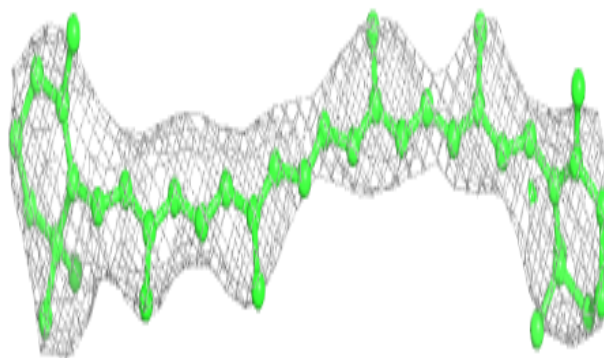
**Electron density around BCR BD 406:**

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

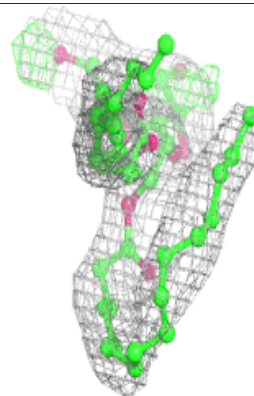
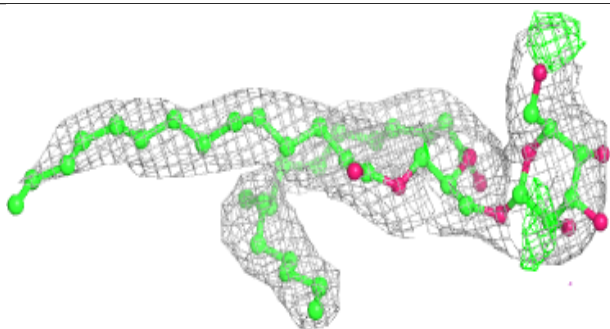
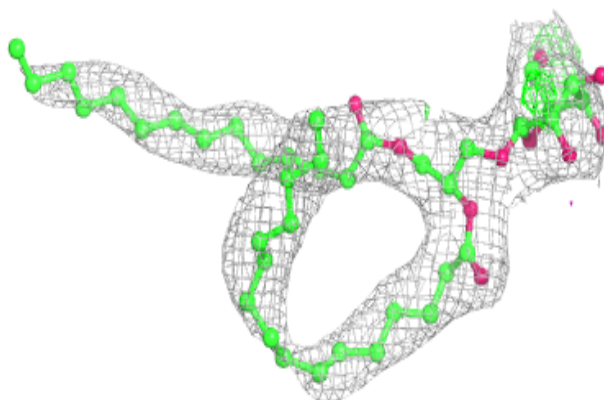


**Electron density around BCR AB 620:**

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

**Electron density around LMG BB 623:**

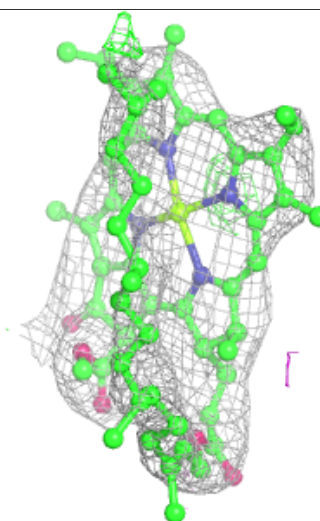
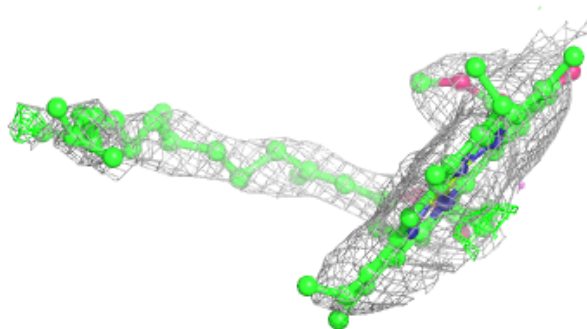
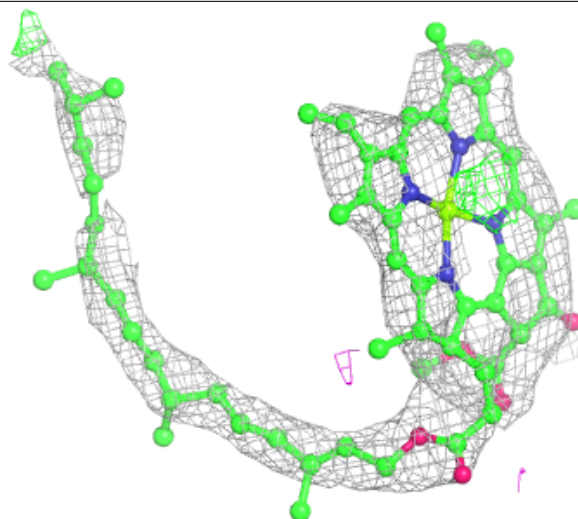
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





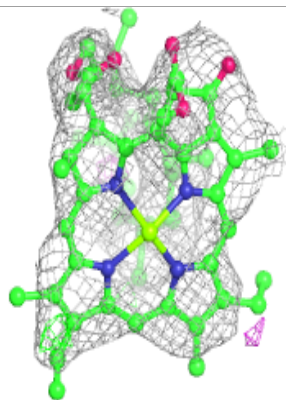
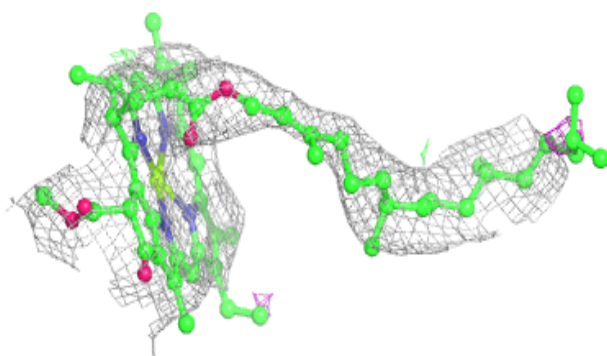
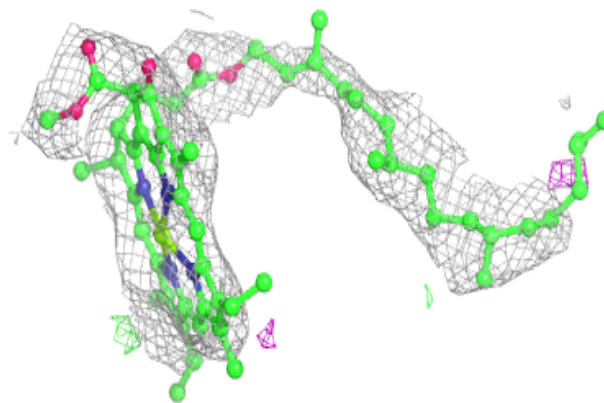
**Electron density around CLA BC 507:**

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

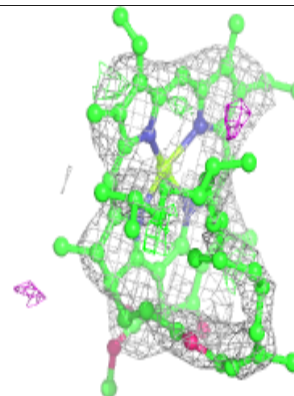
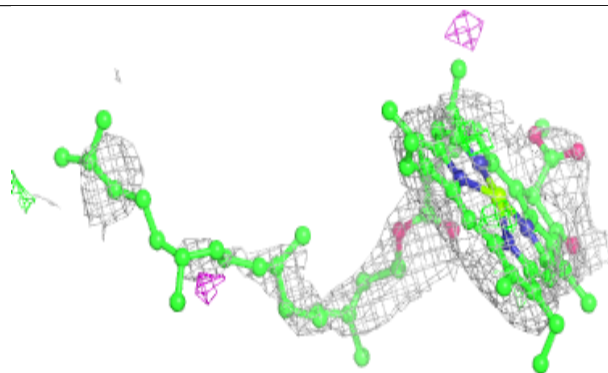
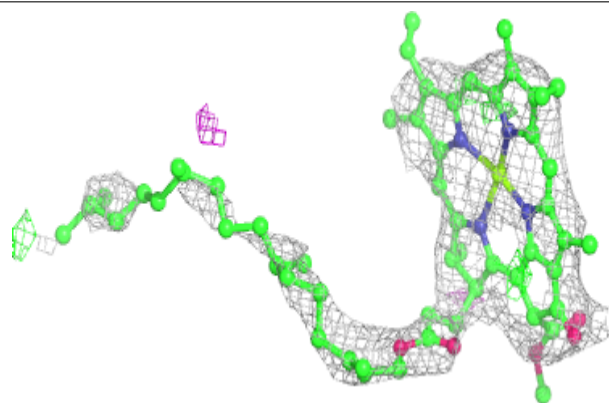


**Electron density around CLA BC 508:**

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

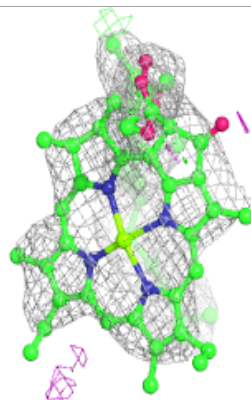
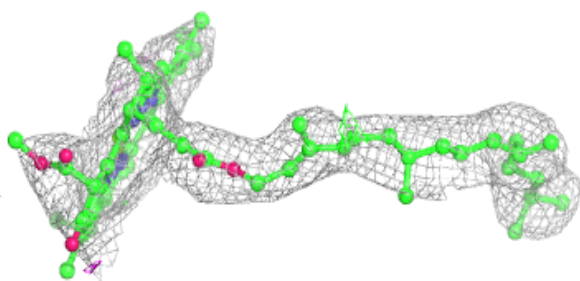
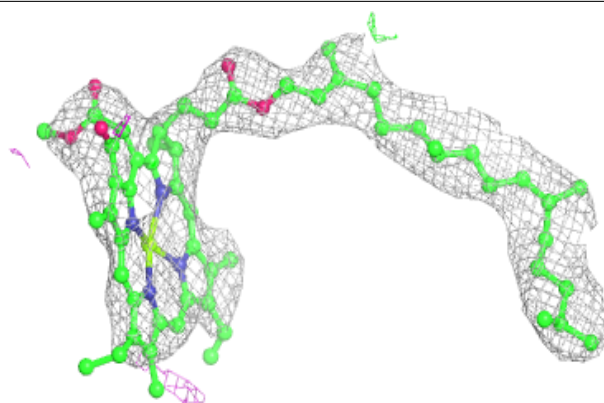
**Electron density around CLA BC 511:**

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

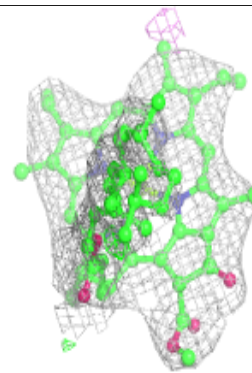
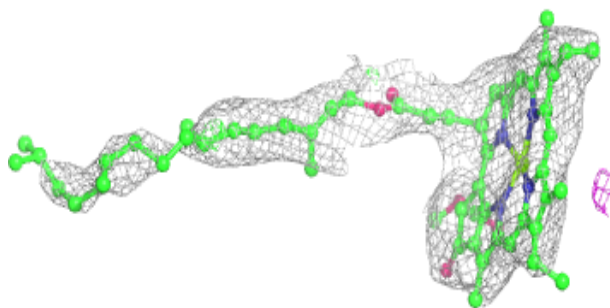
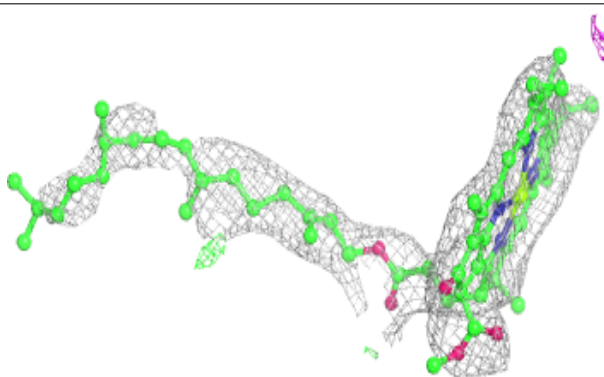


**Electron density around CLA AB 609:**

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

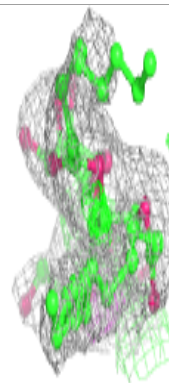
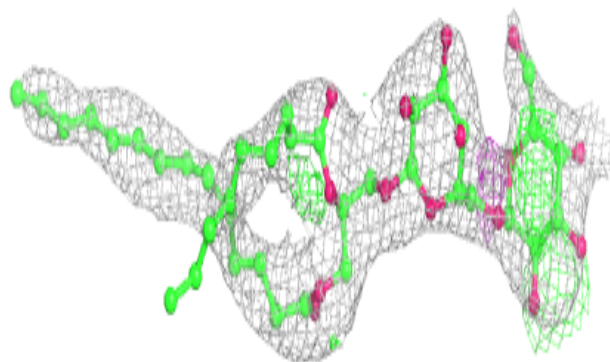
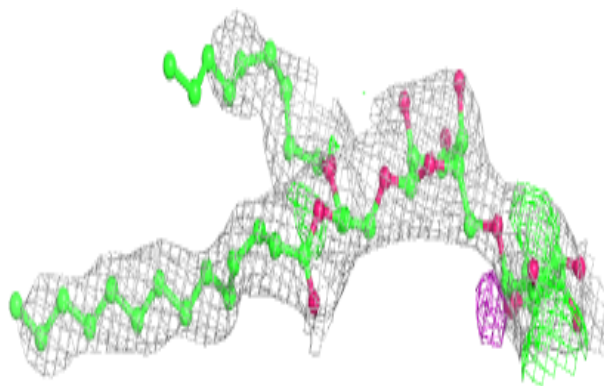
**Electron density around CLA AB 604:**

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

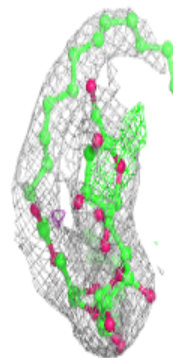
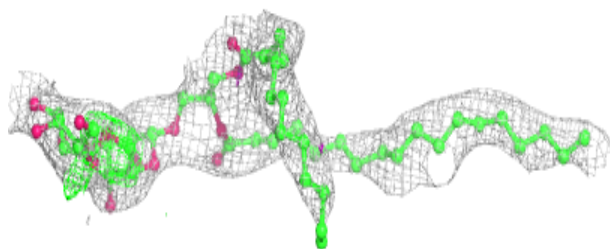
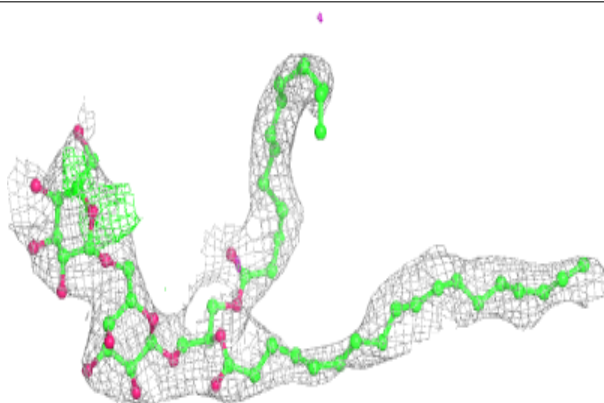


**Electron density around DGD AC 516:**

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

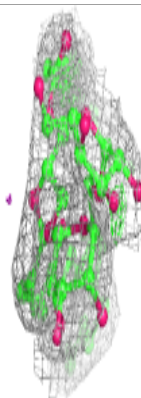
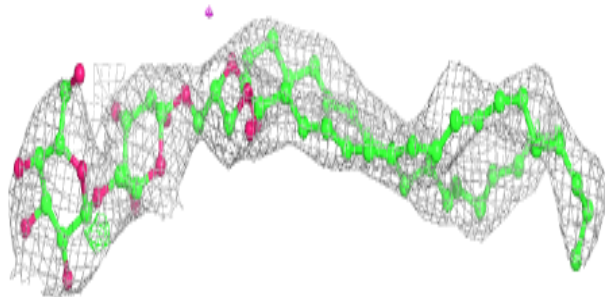
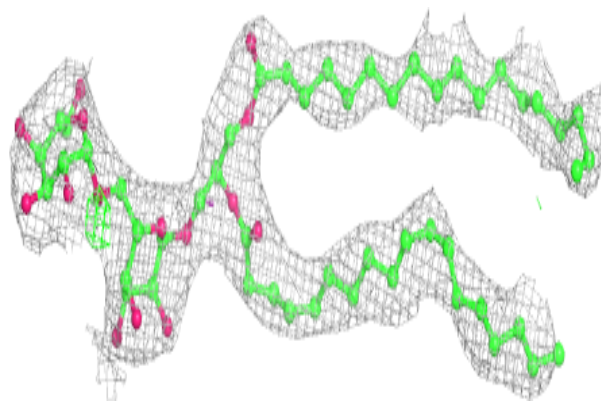
**Electron density around DGD AC 517:**

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

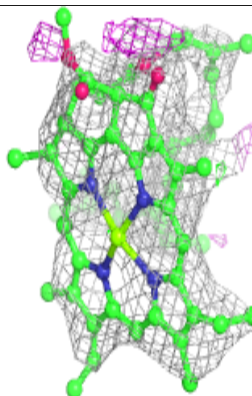
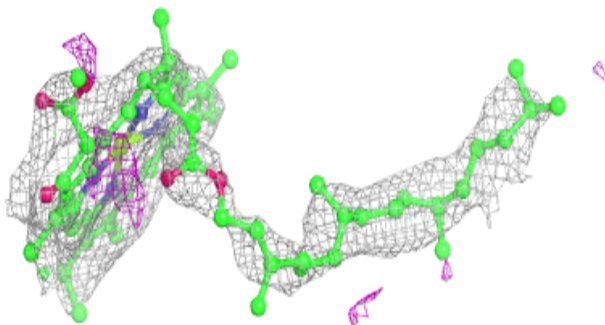
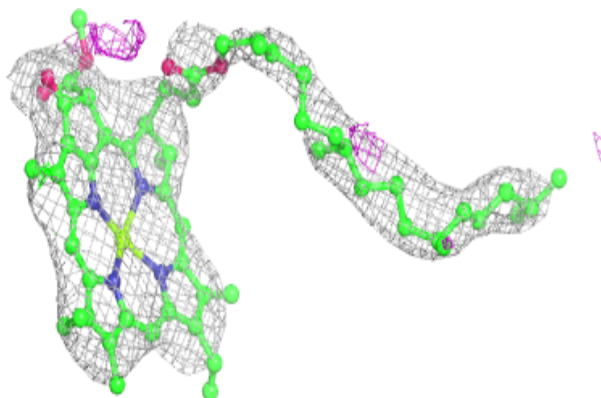


**Electron density around DGD AC 518:**

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

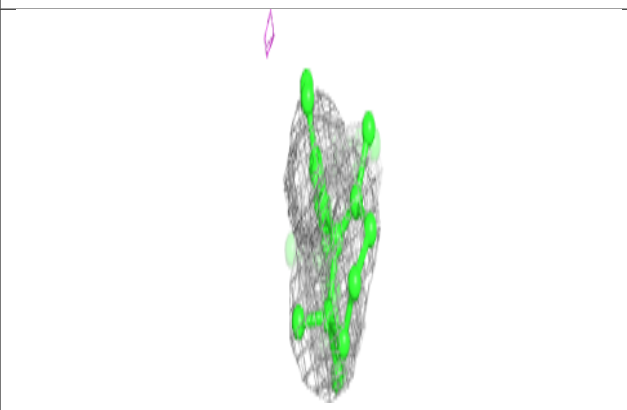
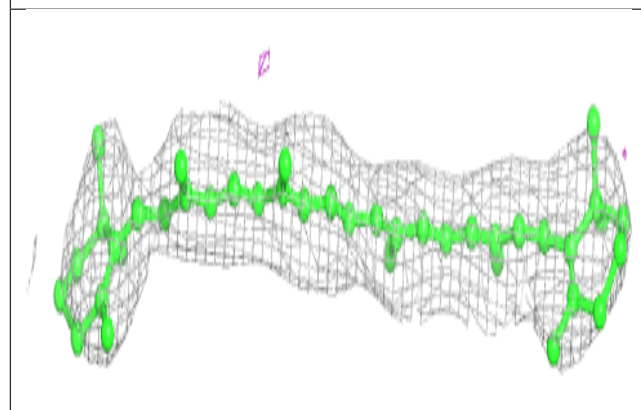
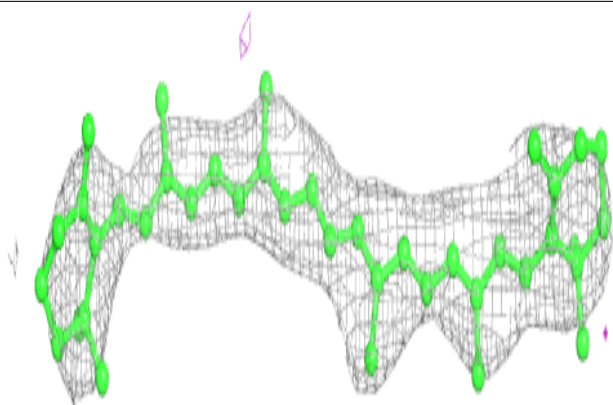
**Electron density around CLA AC 511:**

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

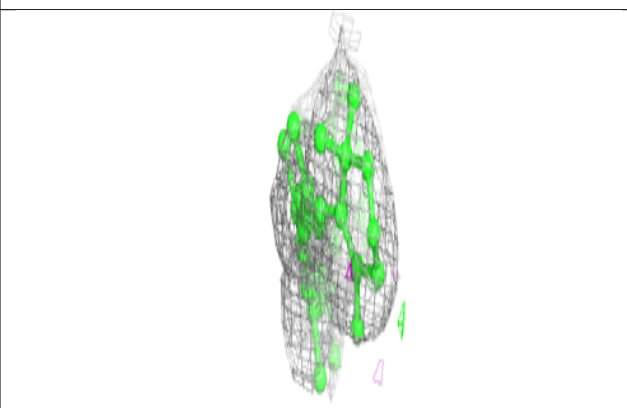
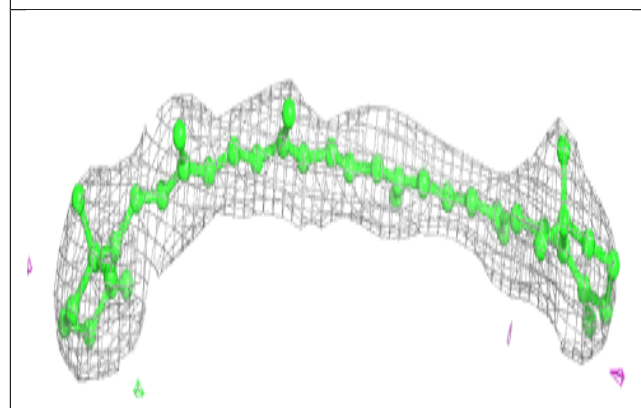
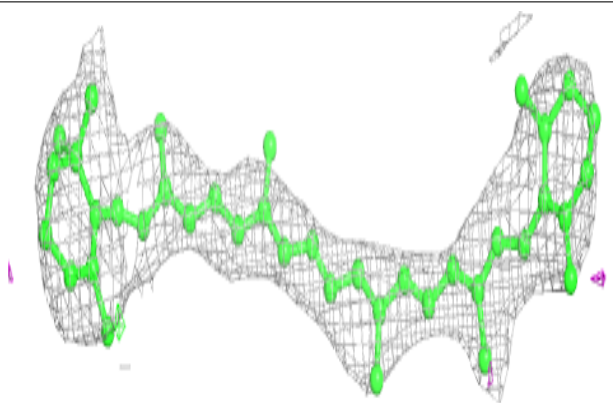


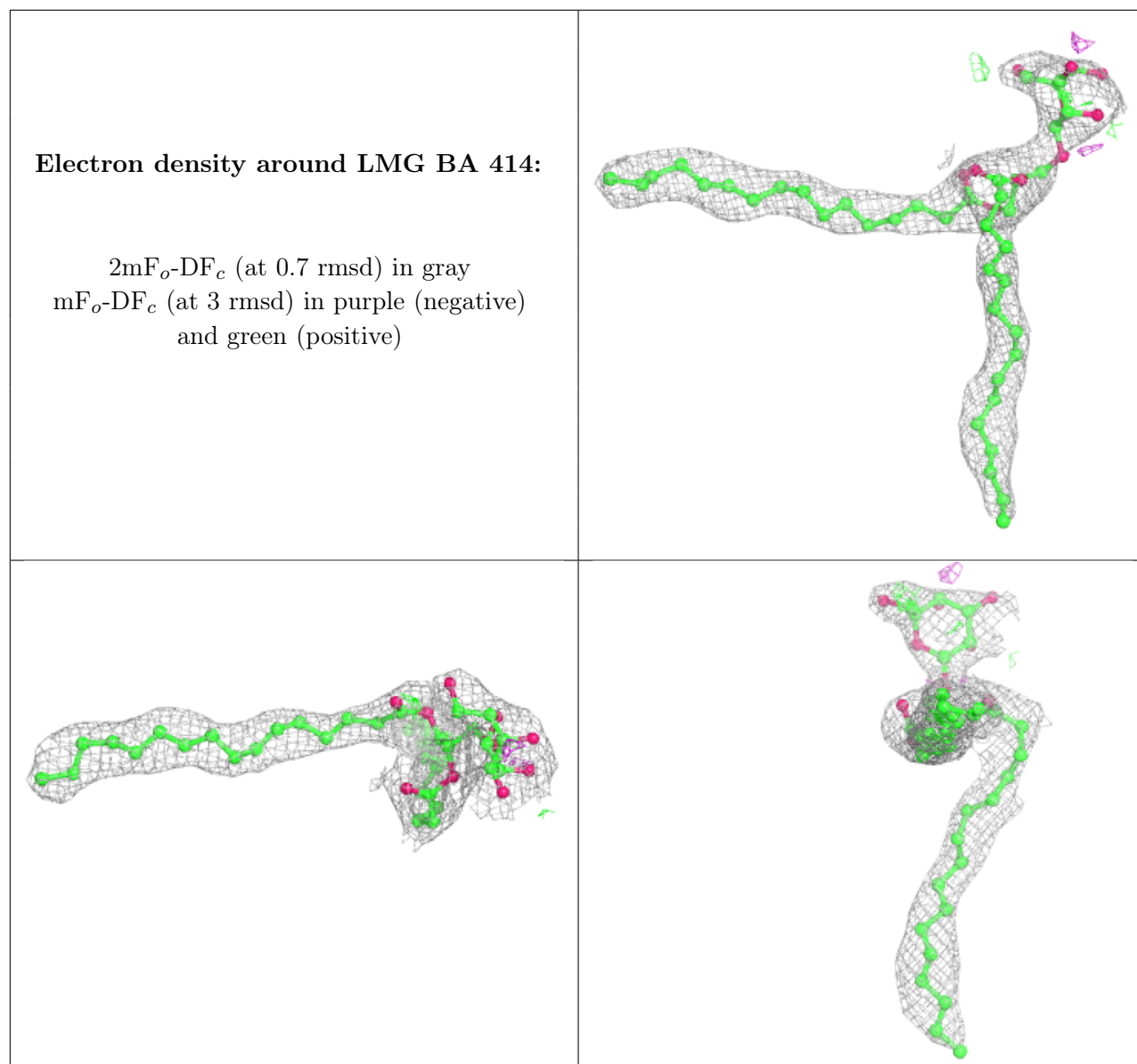
**Electron density around BCR AC 515:**

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

**Electron density around BCR AB 618:**

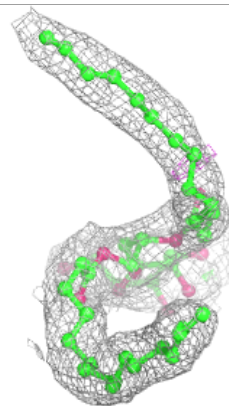
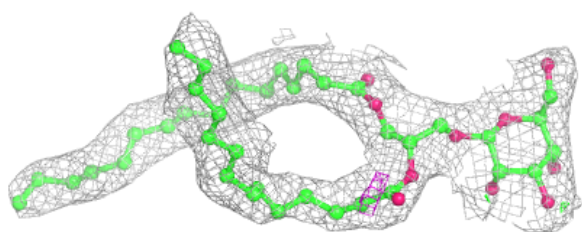
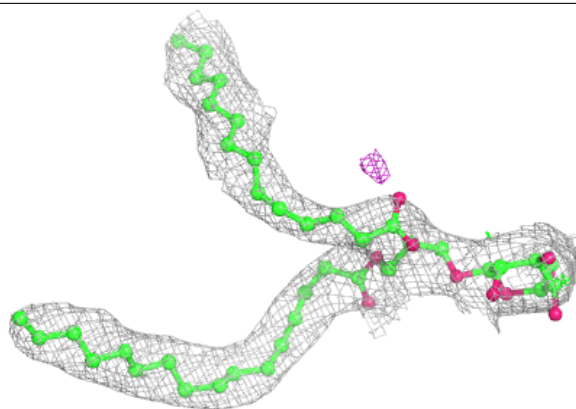
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



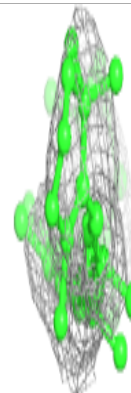
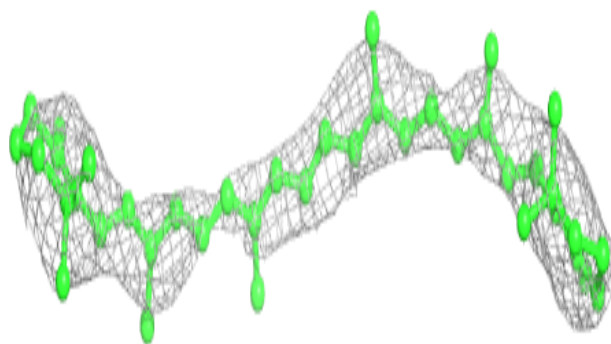
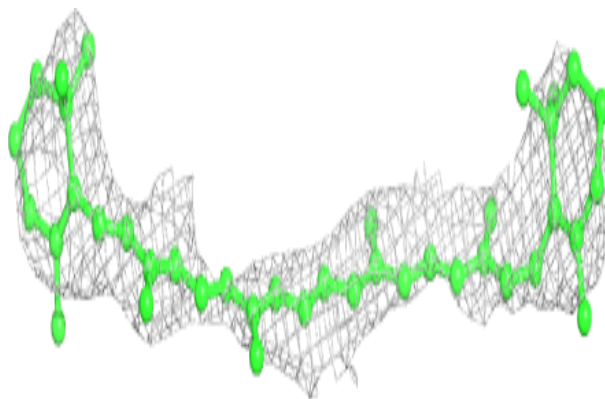


**Electron density around LMG AB 622:**

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

**Electron density around BCR BC 514:**

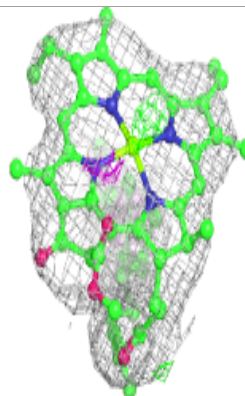
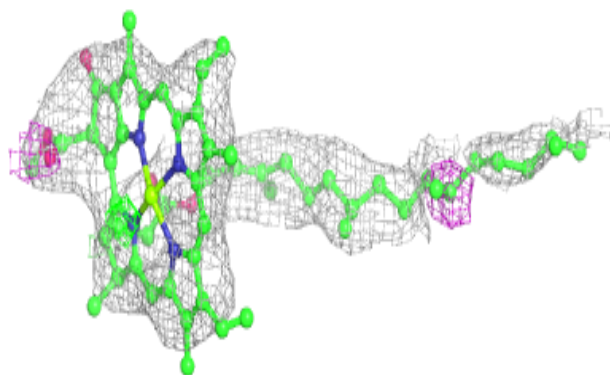
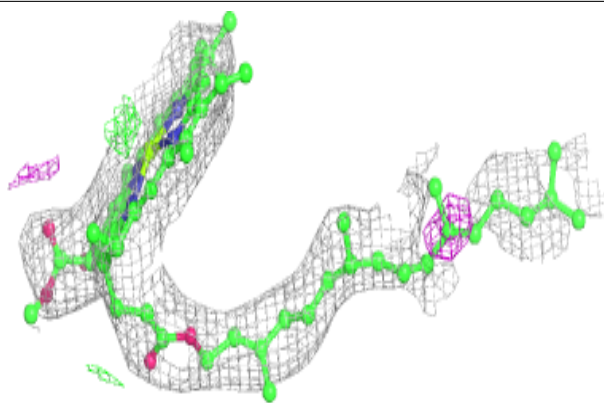
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



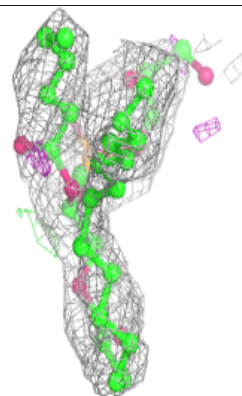
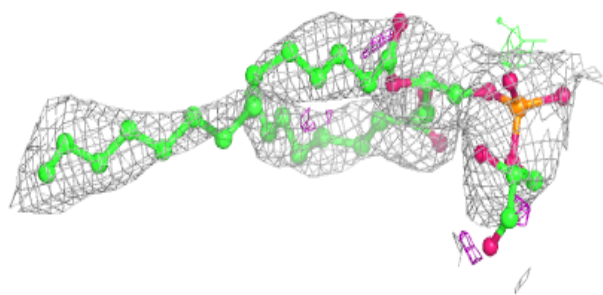
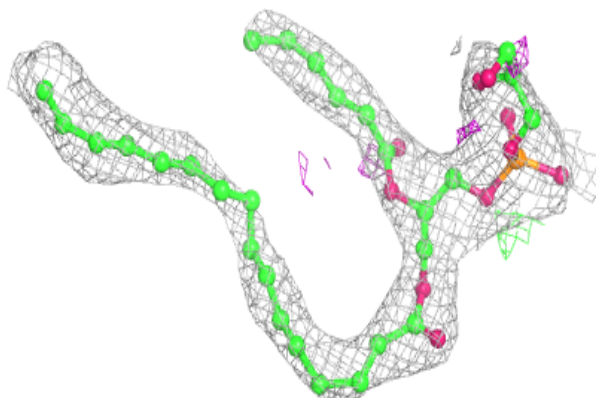


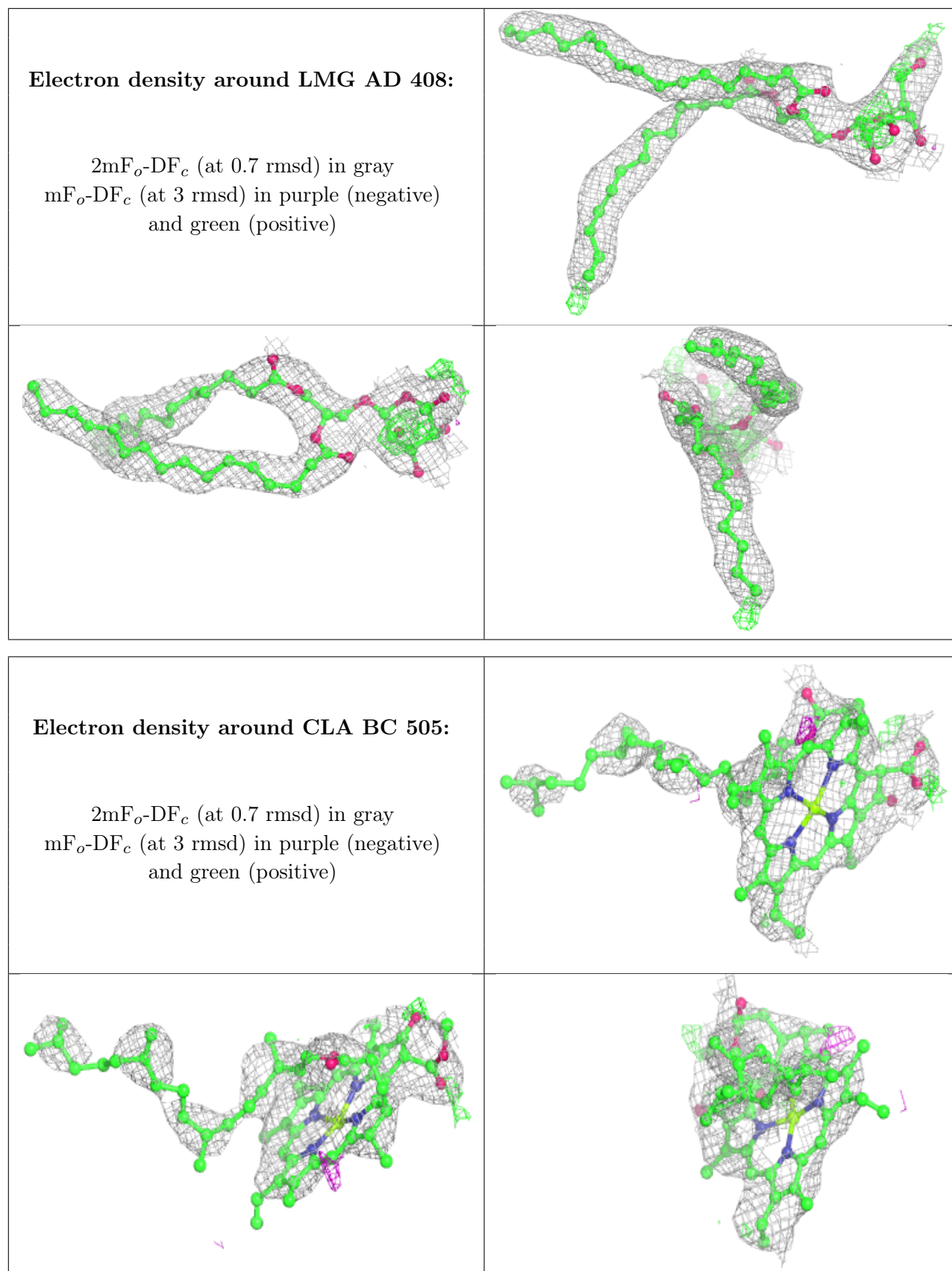
**Electron density around CLA AC 504:**

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

**Electron density around LHG AA 411:**

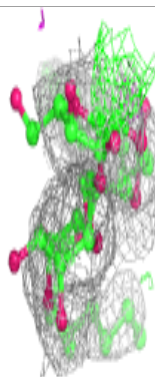
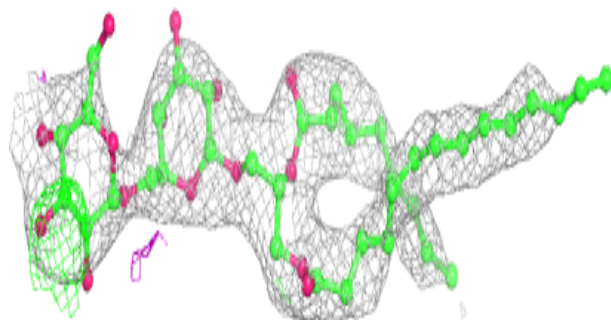
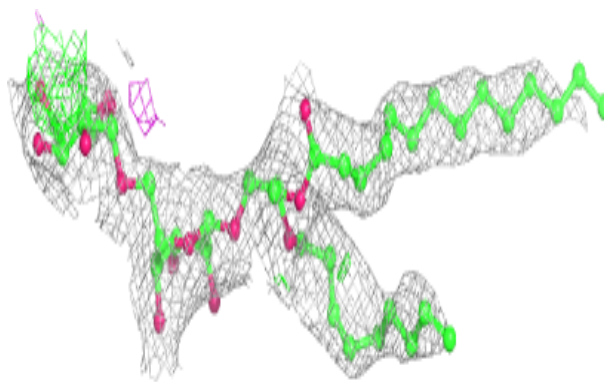
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



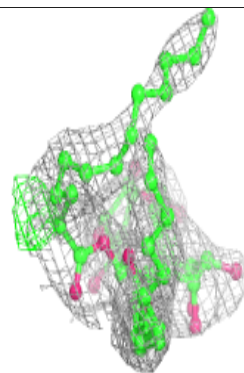
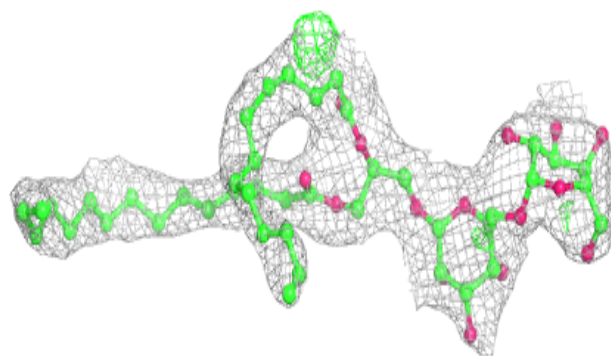
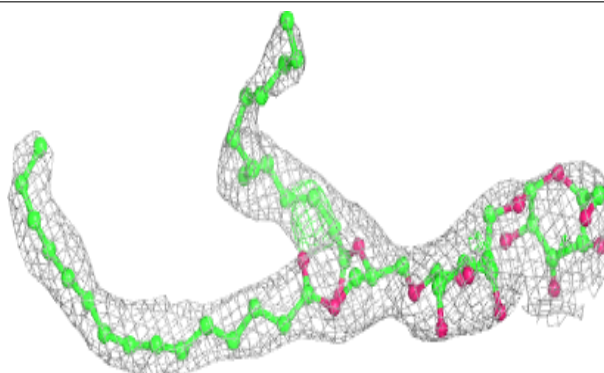


**Electron density around DGD BC 516:**

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

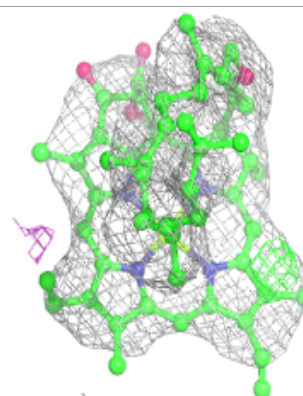
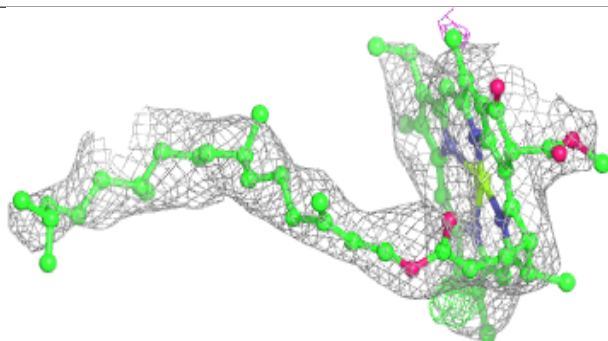
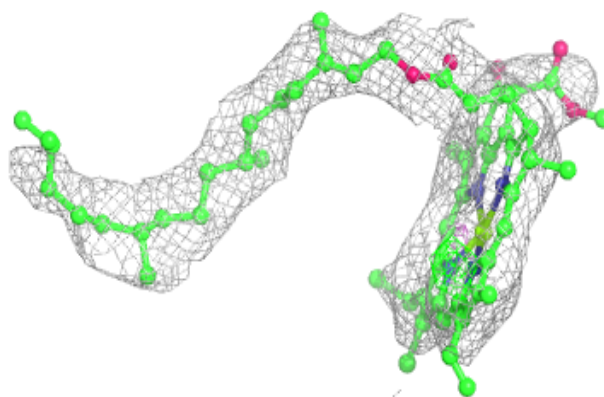
**Electron density around DGD BH 101:**

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

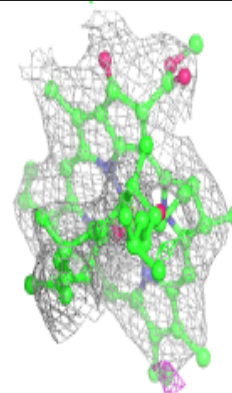
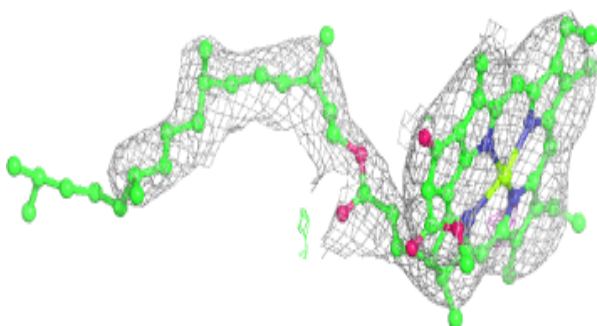
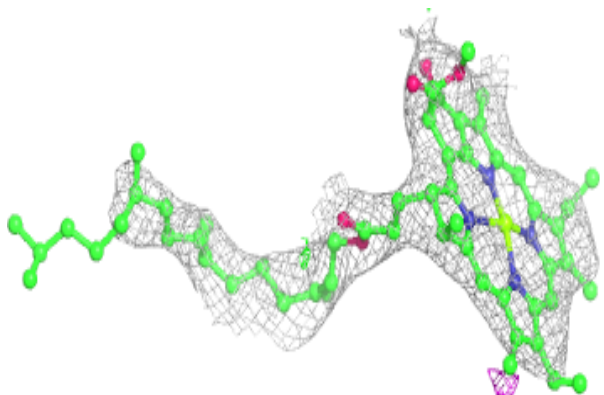


**Electron density around CLA AC 508:**

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

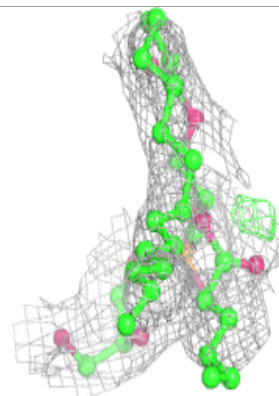
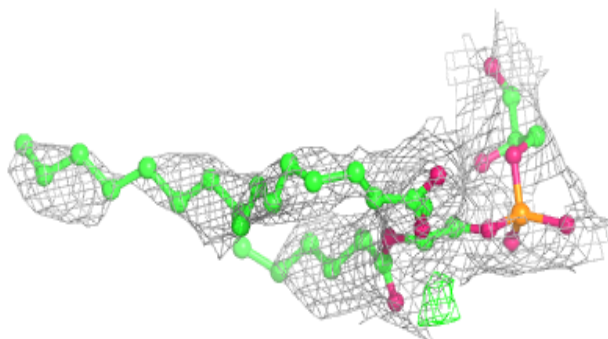
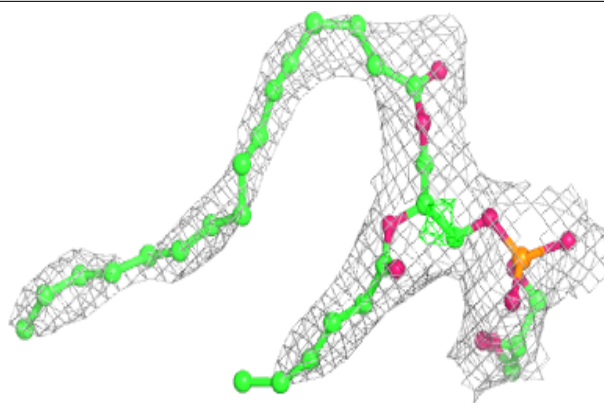
**Electron density around CLA BC 502:**

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



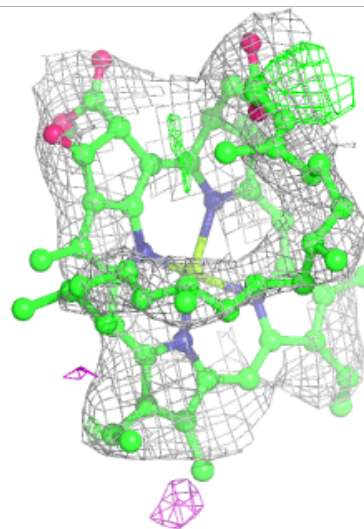
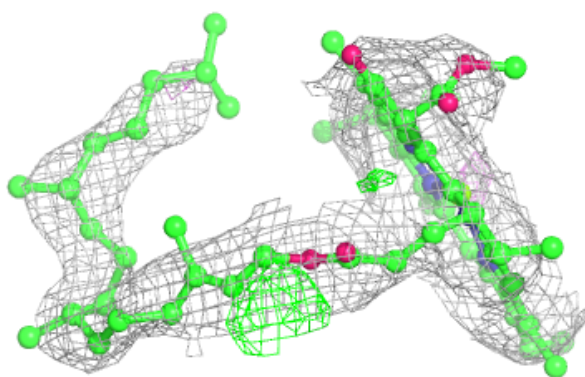
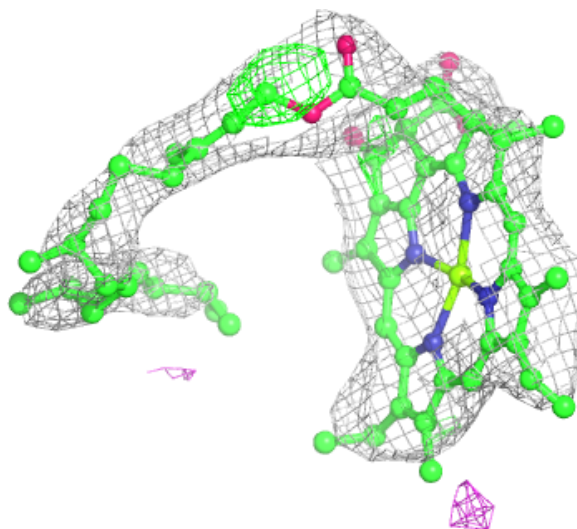
**Electron density around LHG BA 412:**

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



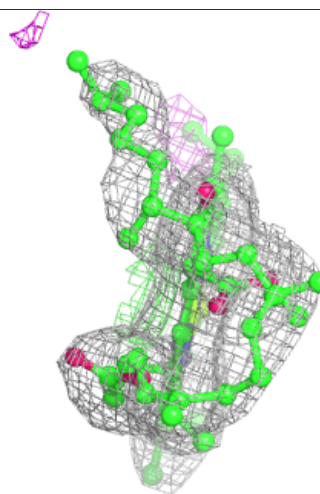
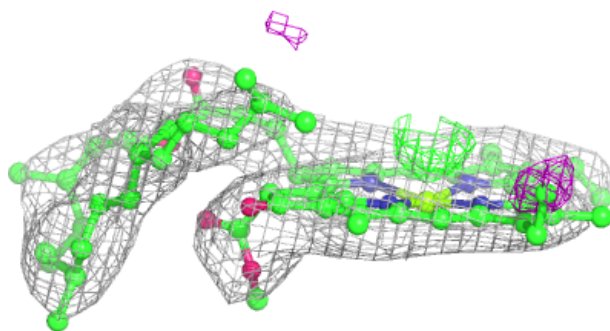
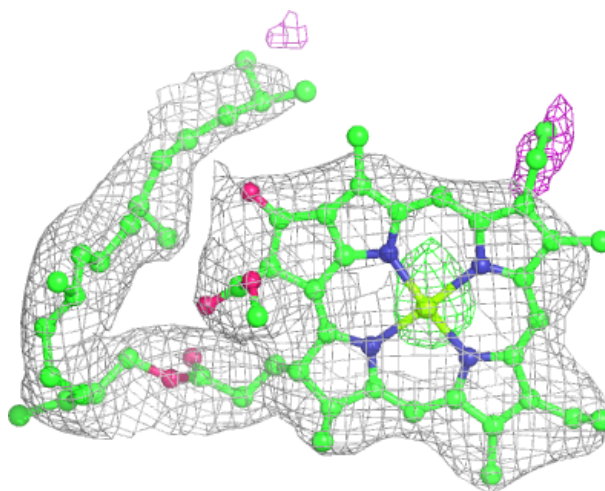
**Electron density around CLA BC 503:**

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



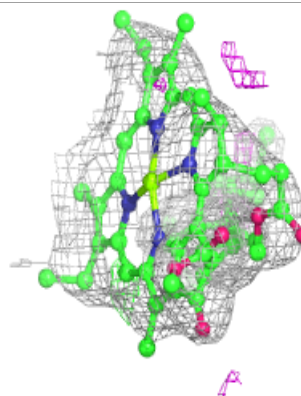
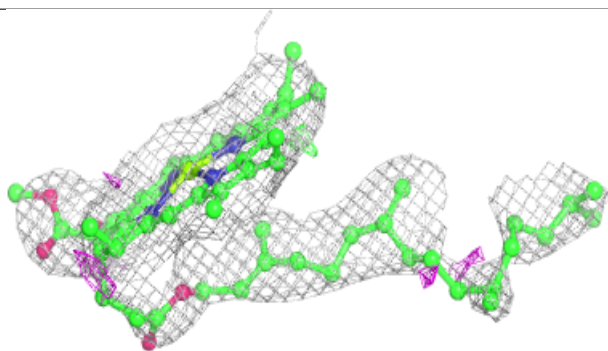
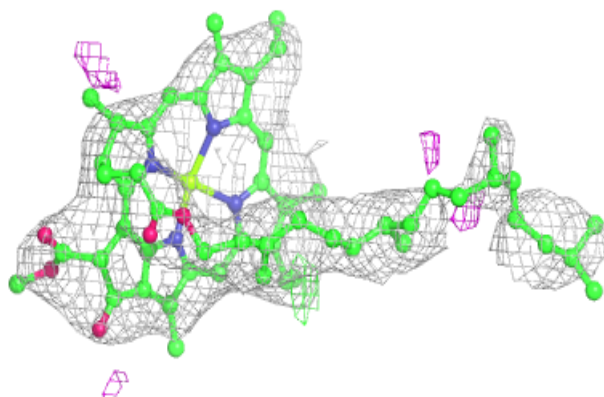
**Electron density around CLA AB 610:**

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

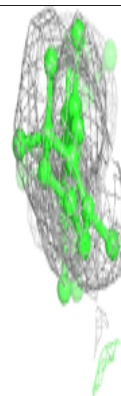
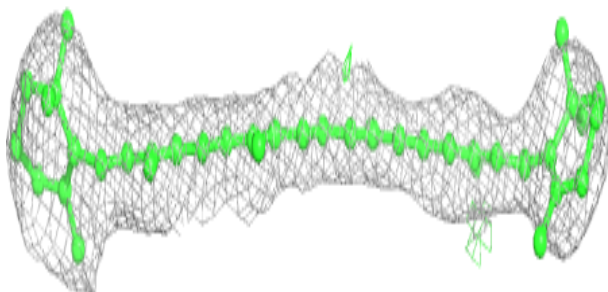
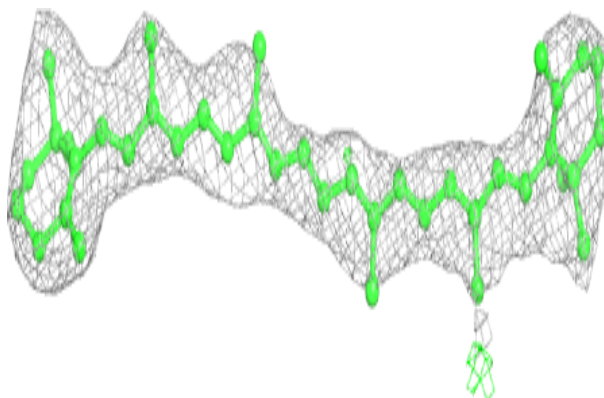


**Electron density around CLA AB 614:**

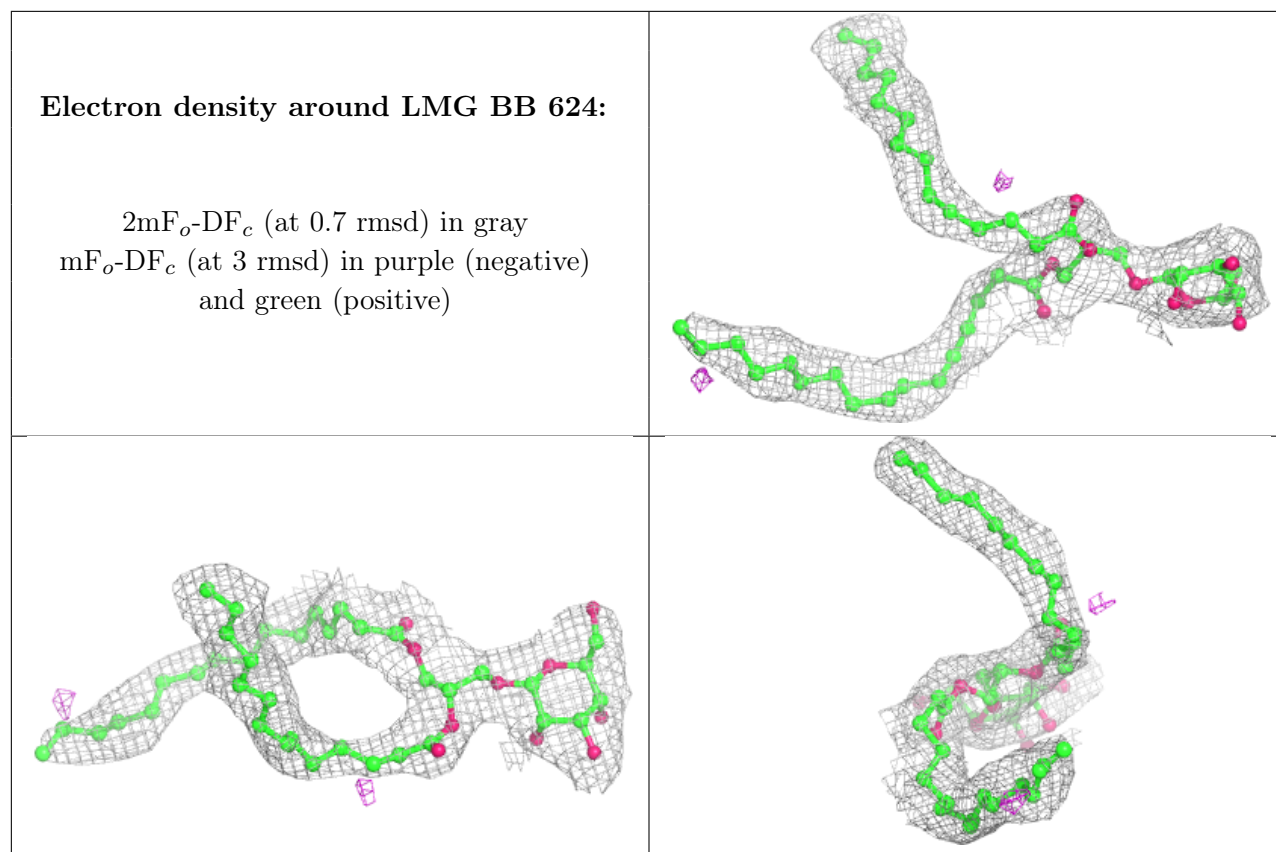
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around BCR AB 619:**

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

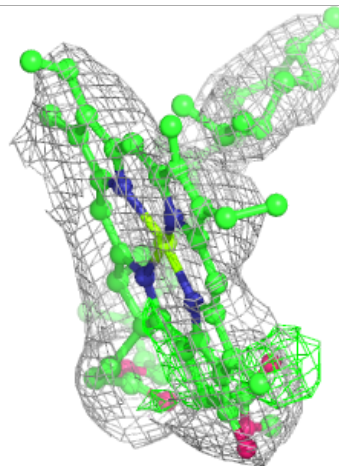
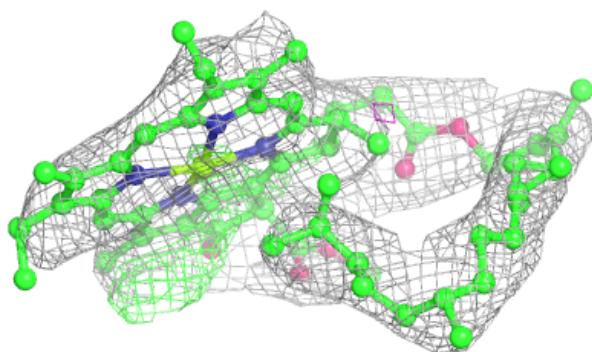
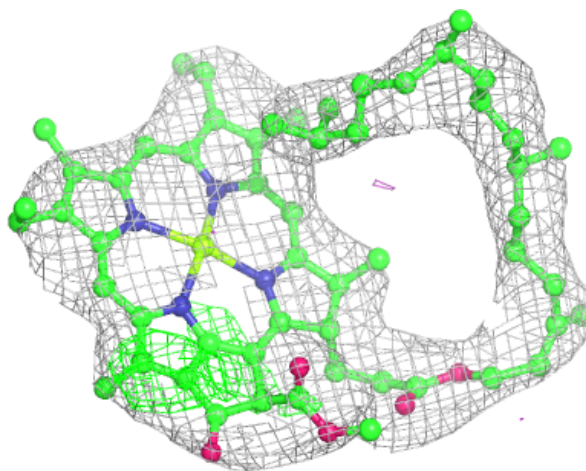


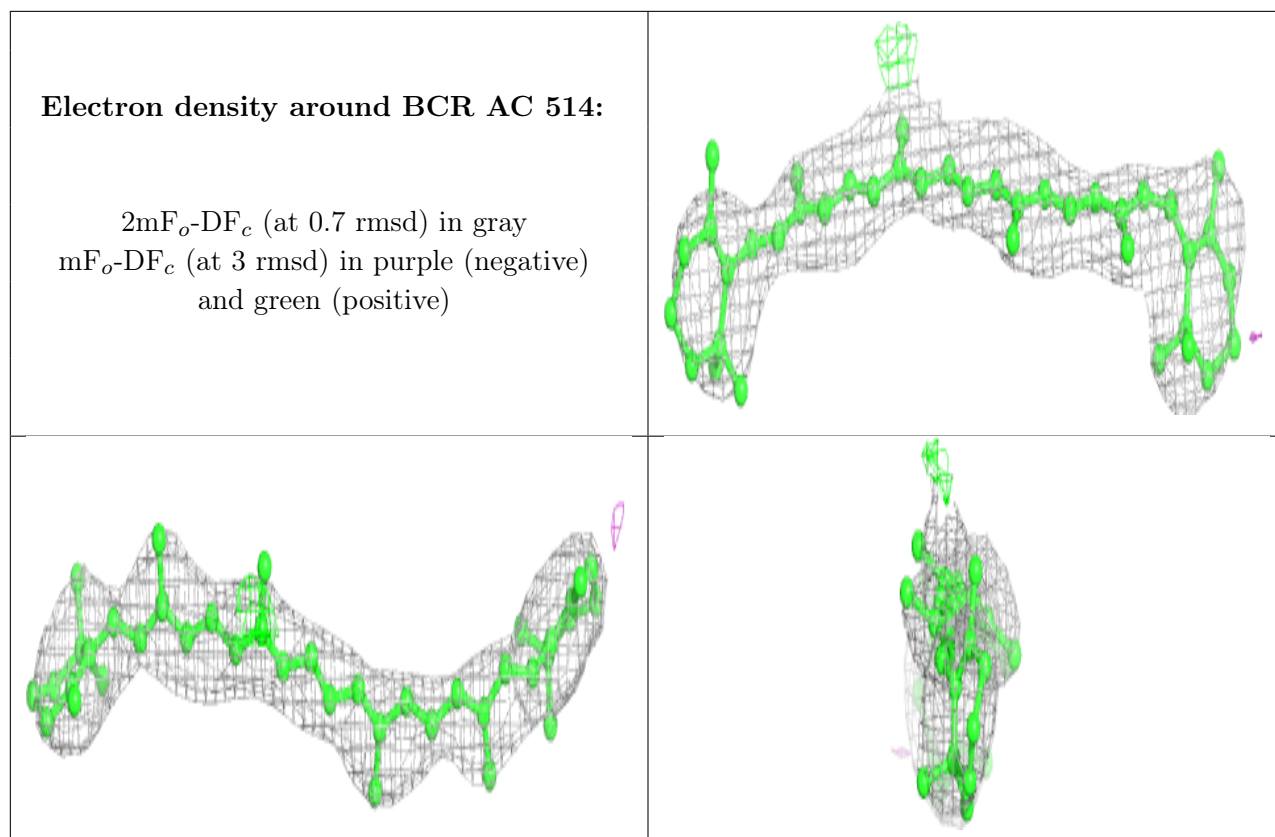




**Electron density around CLA BB 618:**

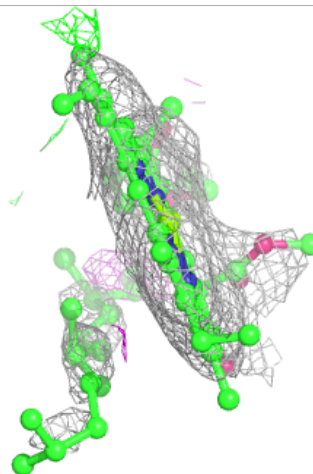
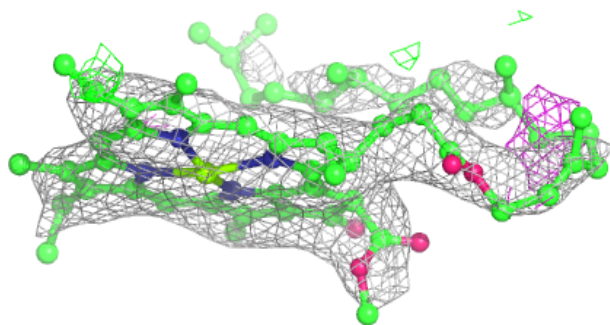
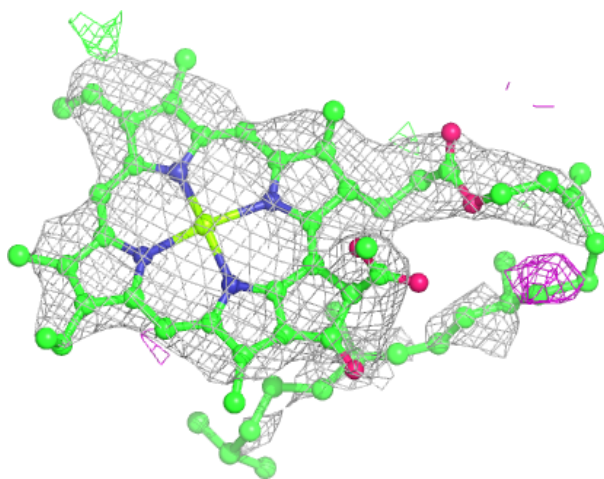
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





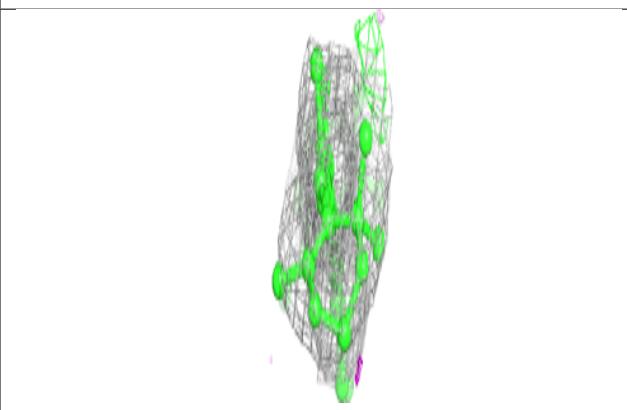
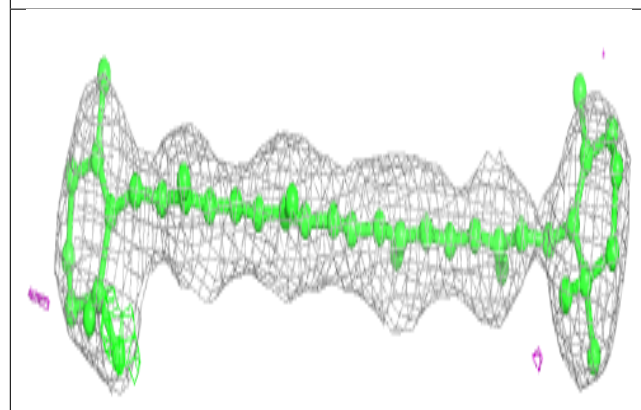
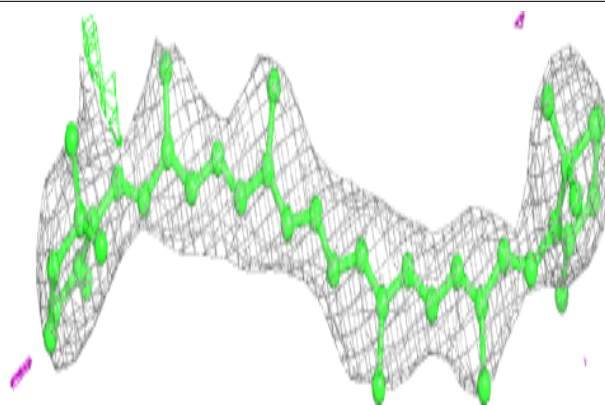
**Electron density around CLA BC 509:**

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

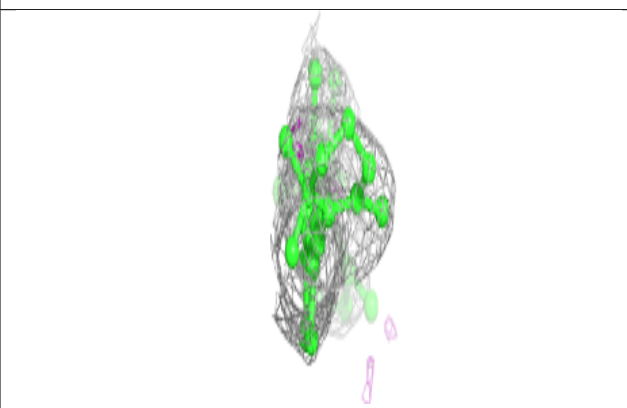
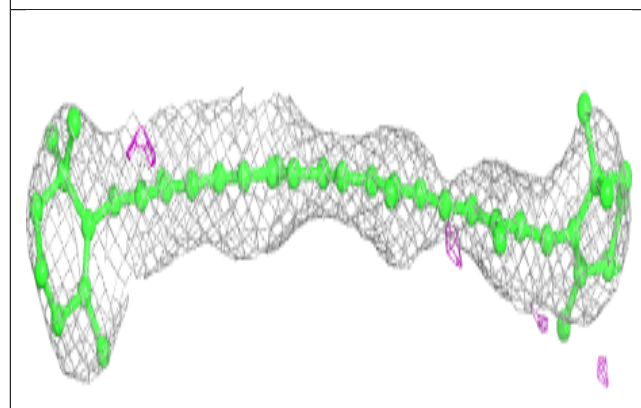
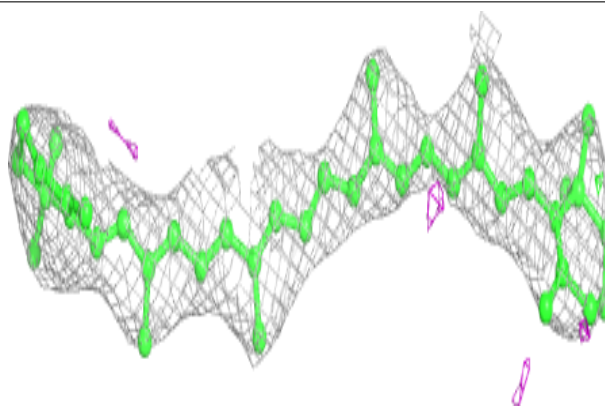


**Electron density around BCR BA 410:**

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

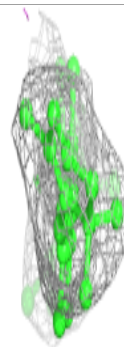
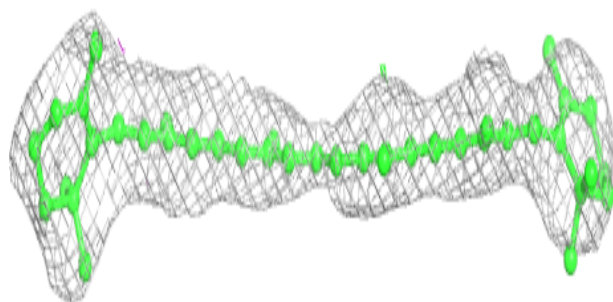
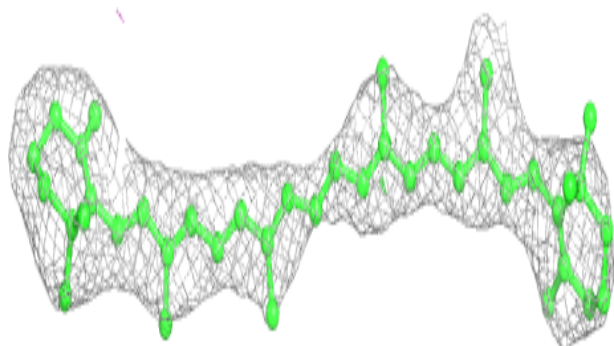
**Electron density around BCR BB 620:**

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

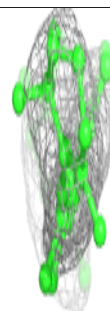
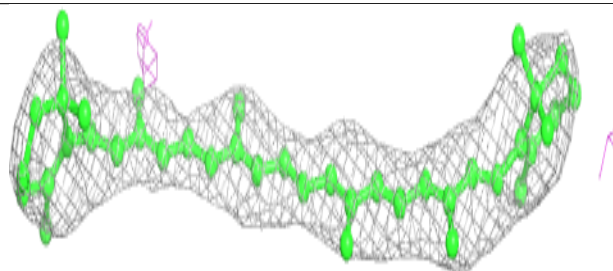
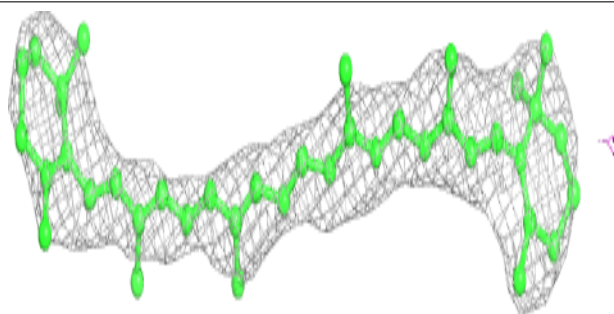


**Electron density around BCR BB 621:**

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

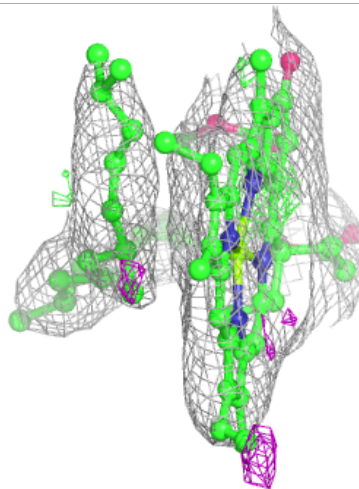
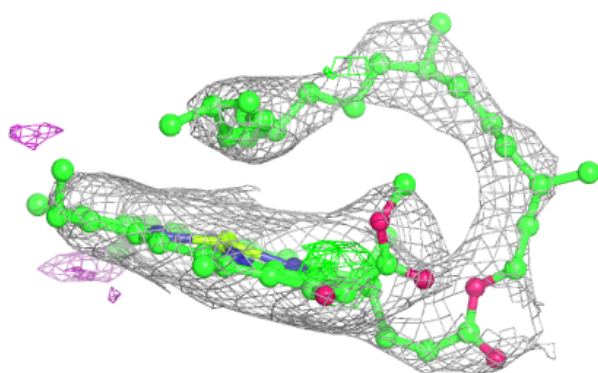
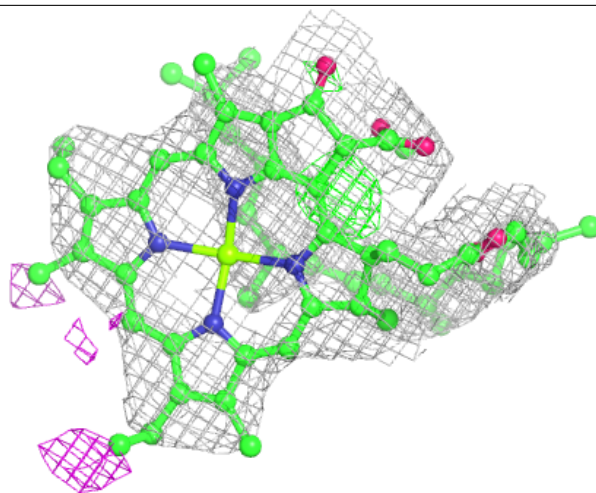
**Electron density around BCR BB 622:**

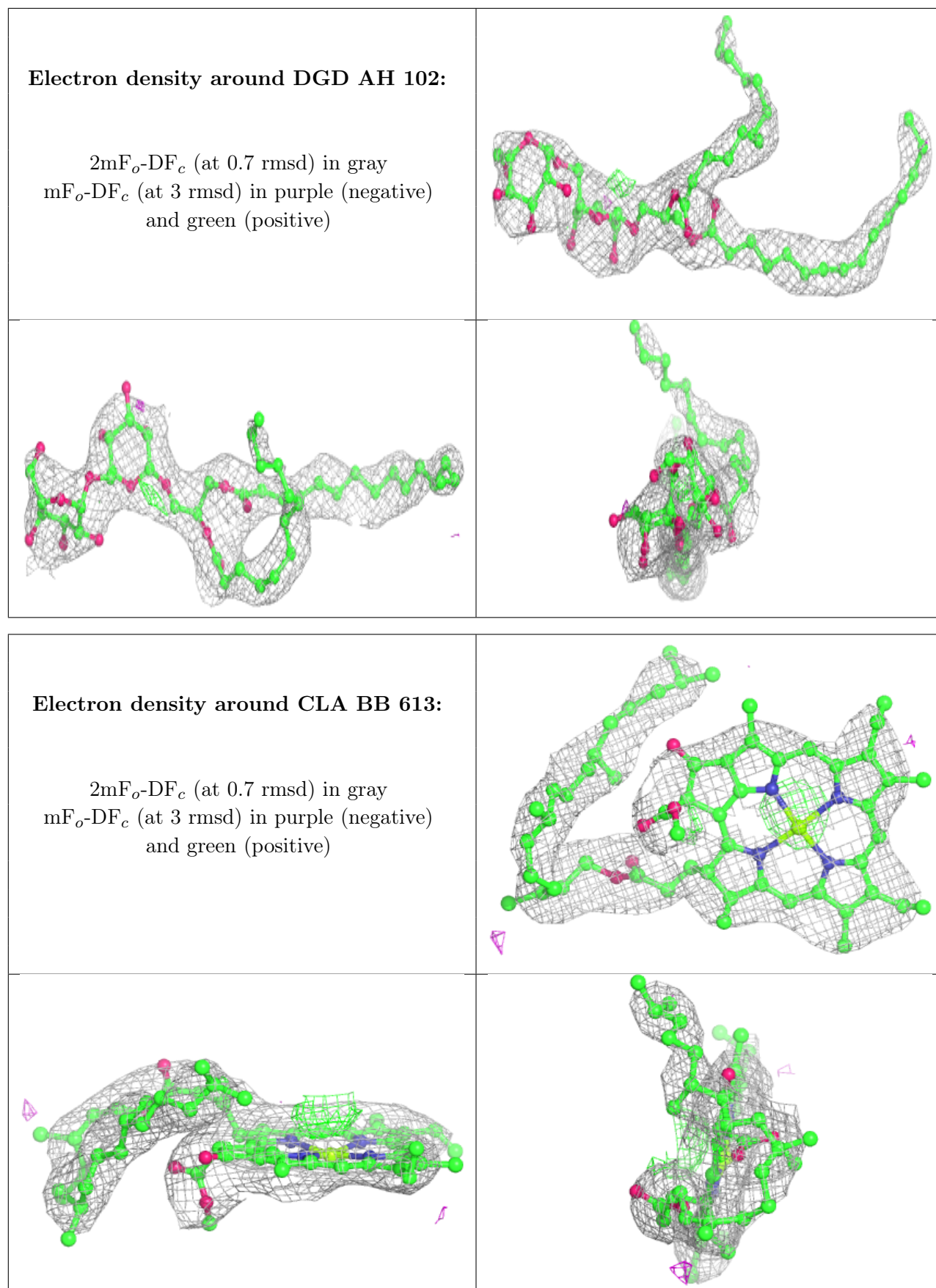
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around CLA BC 510:**

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

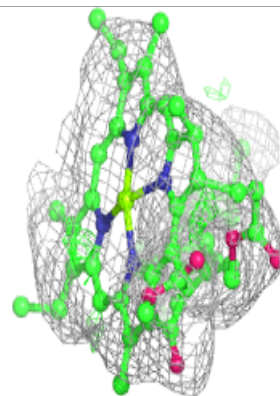
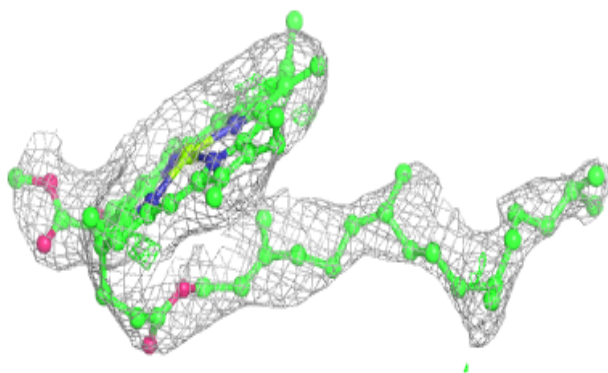
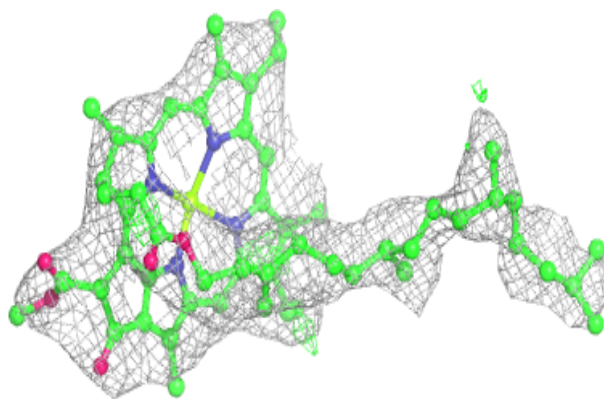




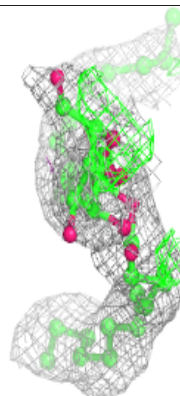
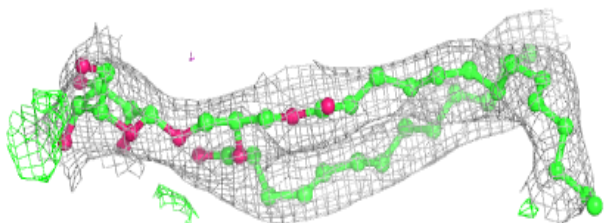
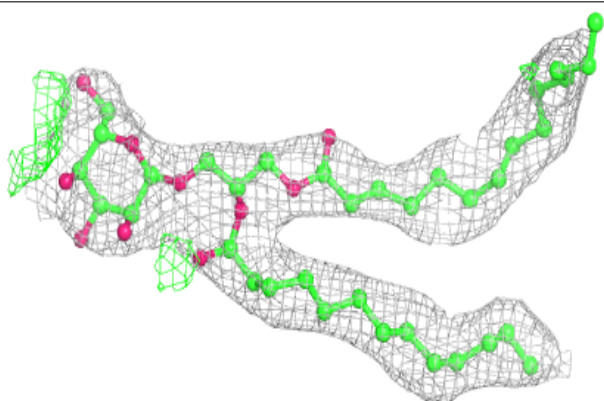


**Electron density around CLA BB 617:**

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

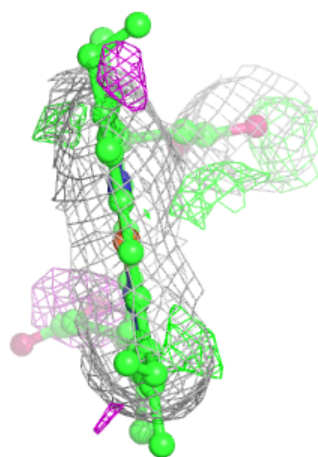
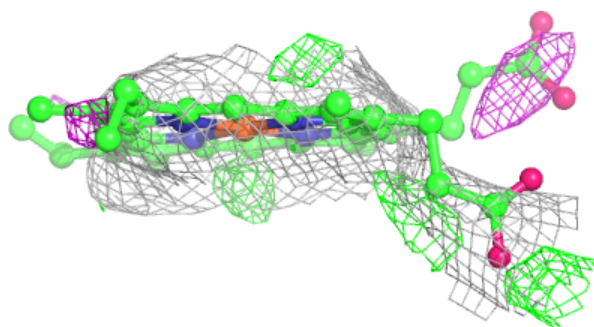
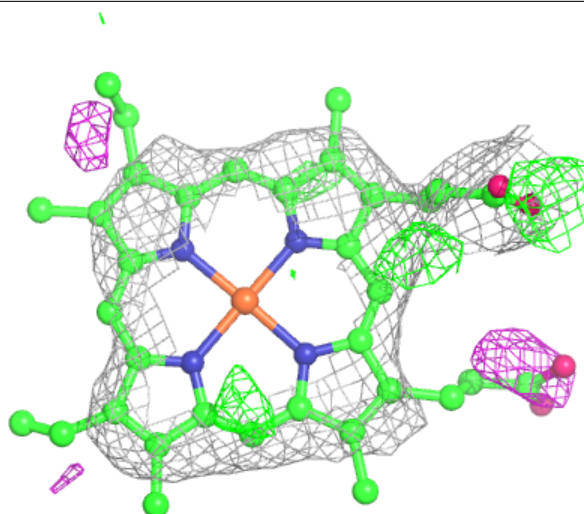
**Electron density around LMG AD 407:**

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



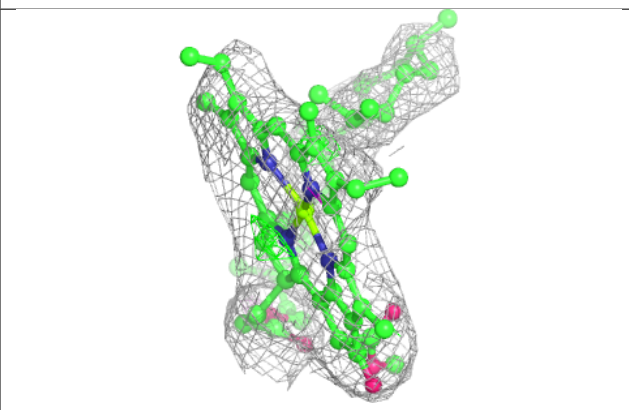
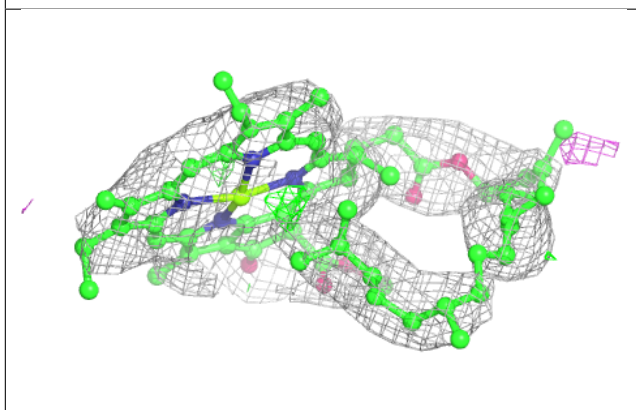
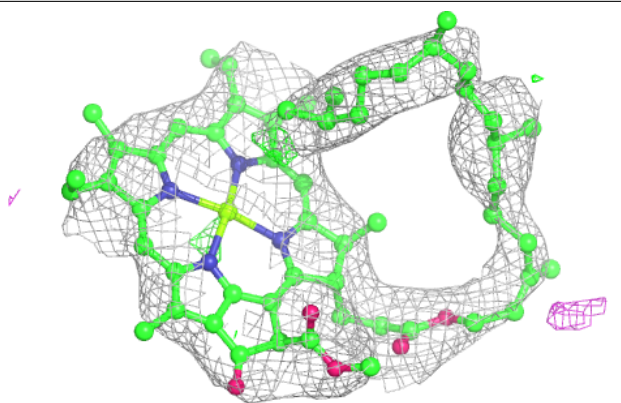
**Electron density around HEM BE 101:**

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

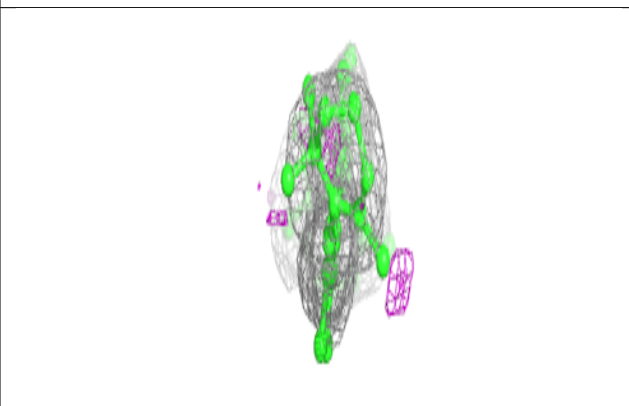
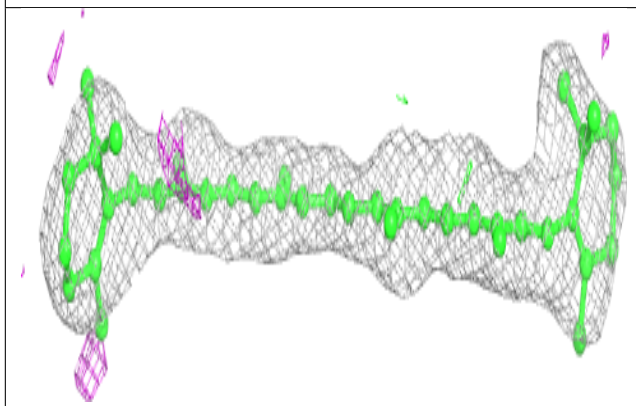
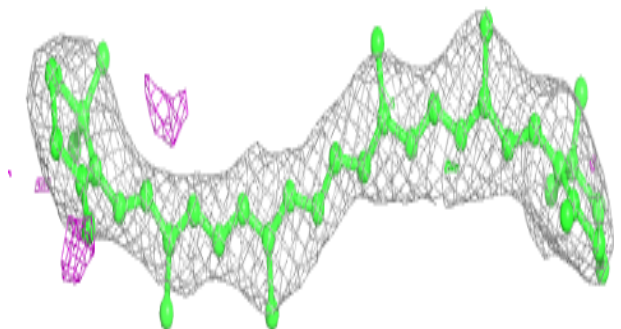


**Electron density around CLA AB 615:**

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

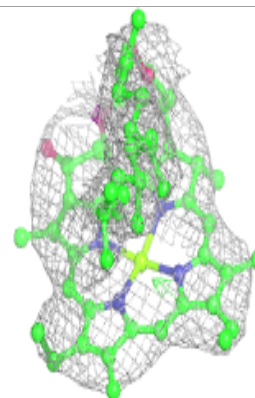
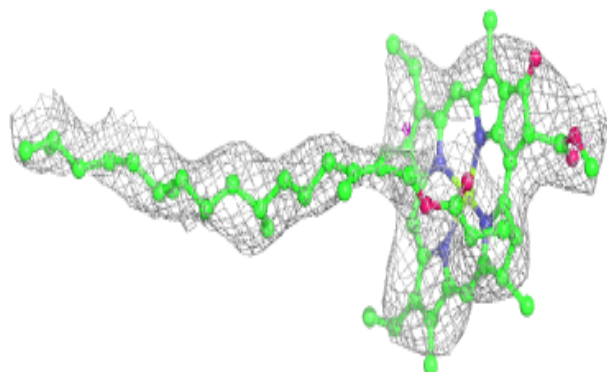
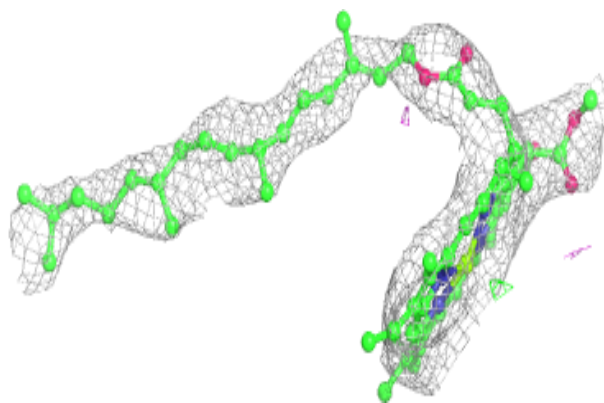
**Electron density around BCR AA 409:**

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

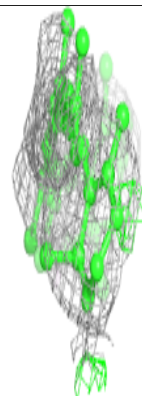
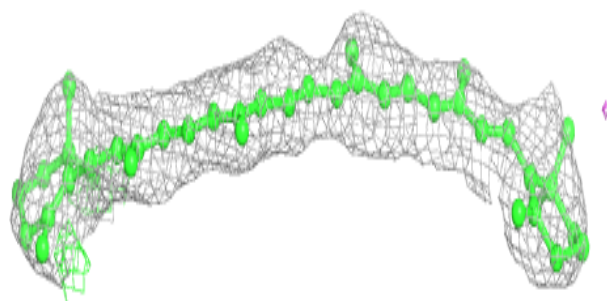
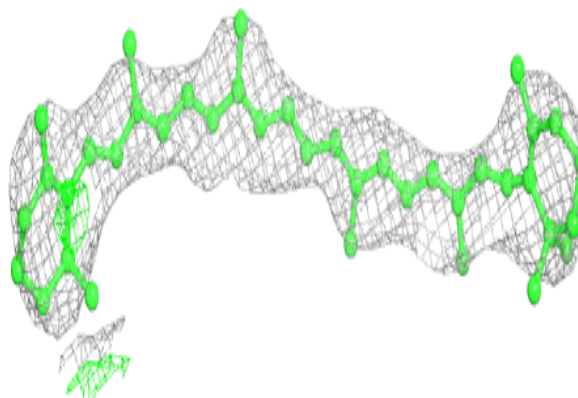


**Electron density around CLA BC 504:**

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

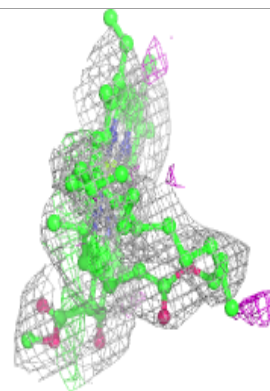
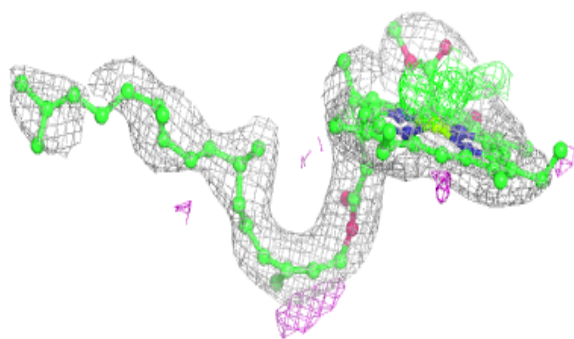
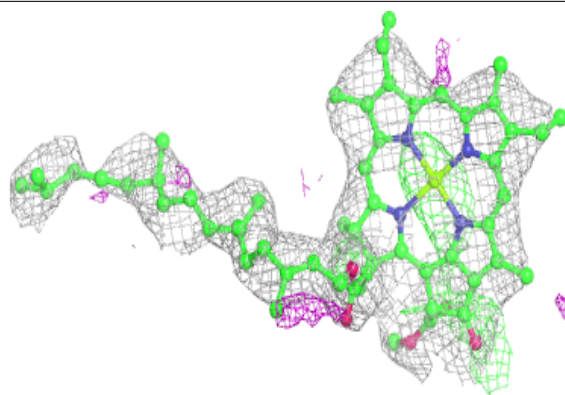
**Electron density around BCR AT 102:**

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

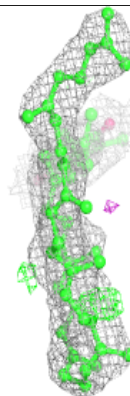
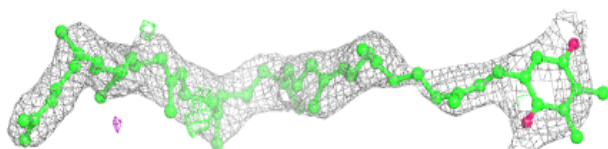
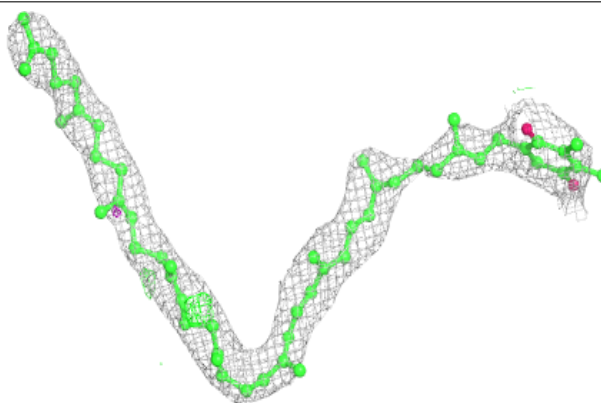


**Electron density around CLA AA 404:**

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

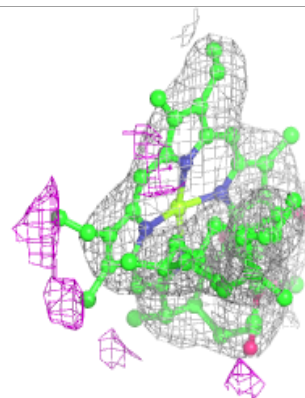
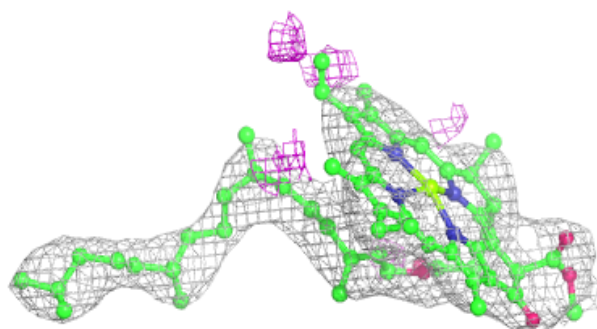
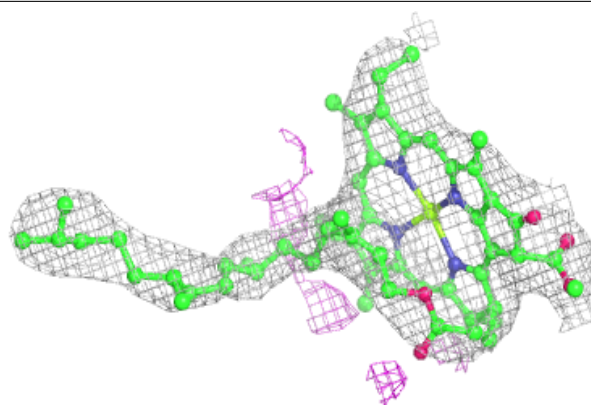
**Electron density around PL9 BD 405:**

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

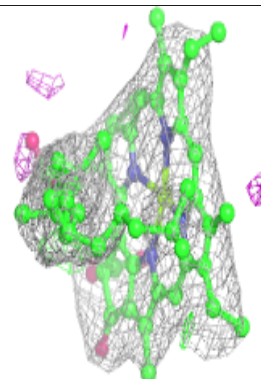
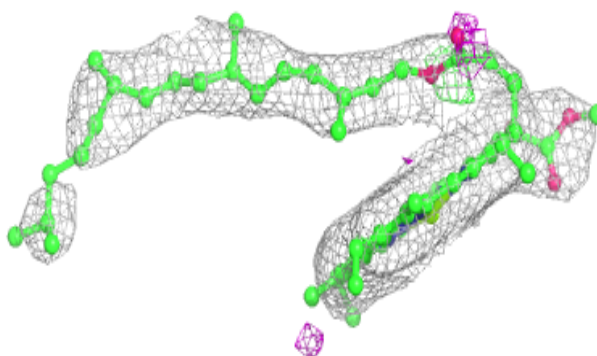
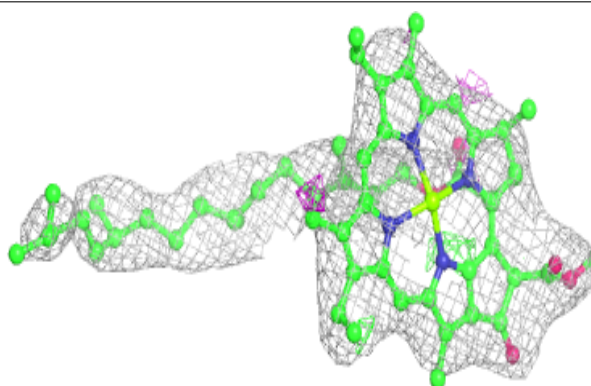


**Electron density around CLA AC 505:**

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

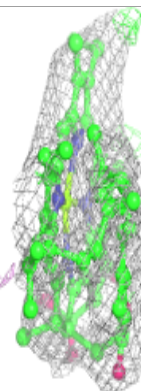
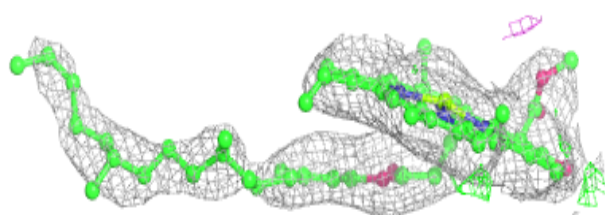
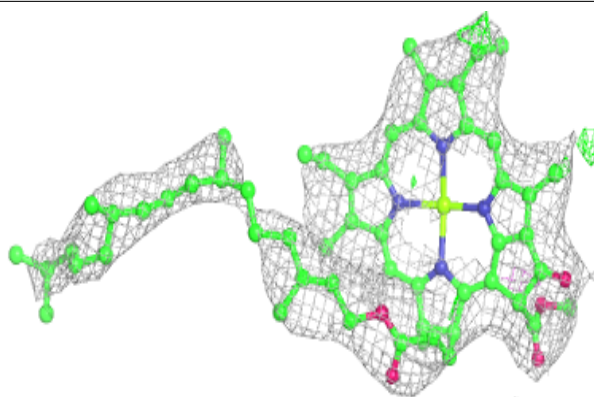
**Electron density around CLA AB 608:**

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

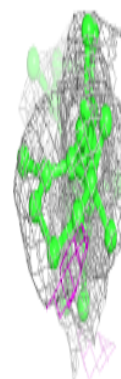
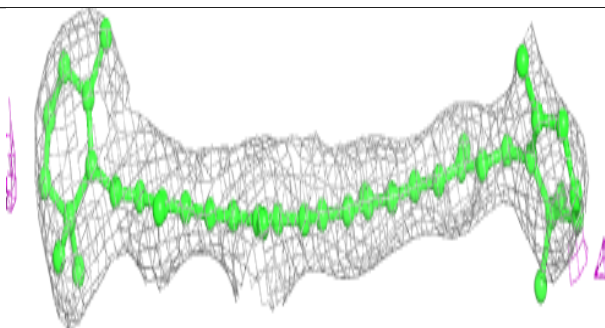
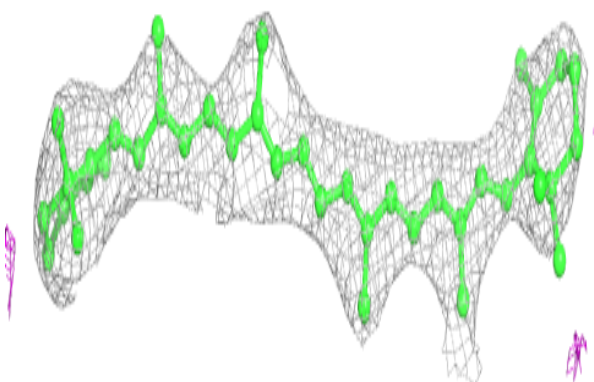


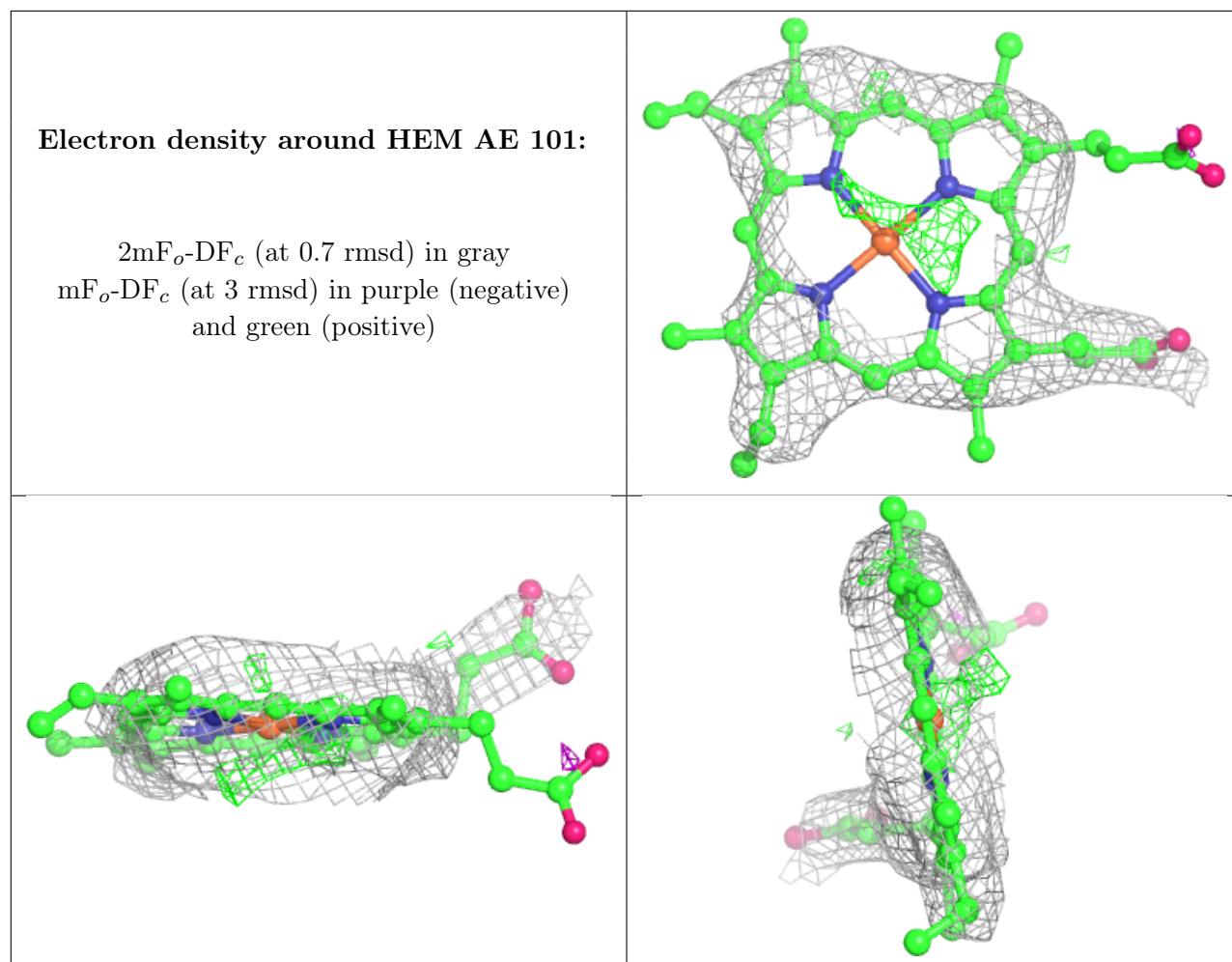
**Electron density around CLA BB 606:**

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

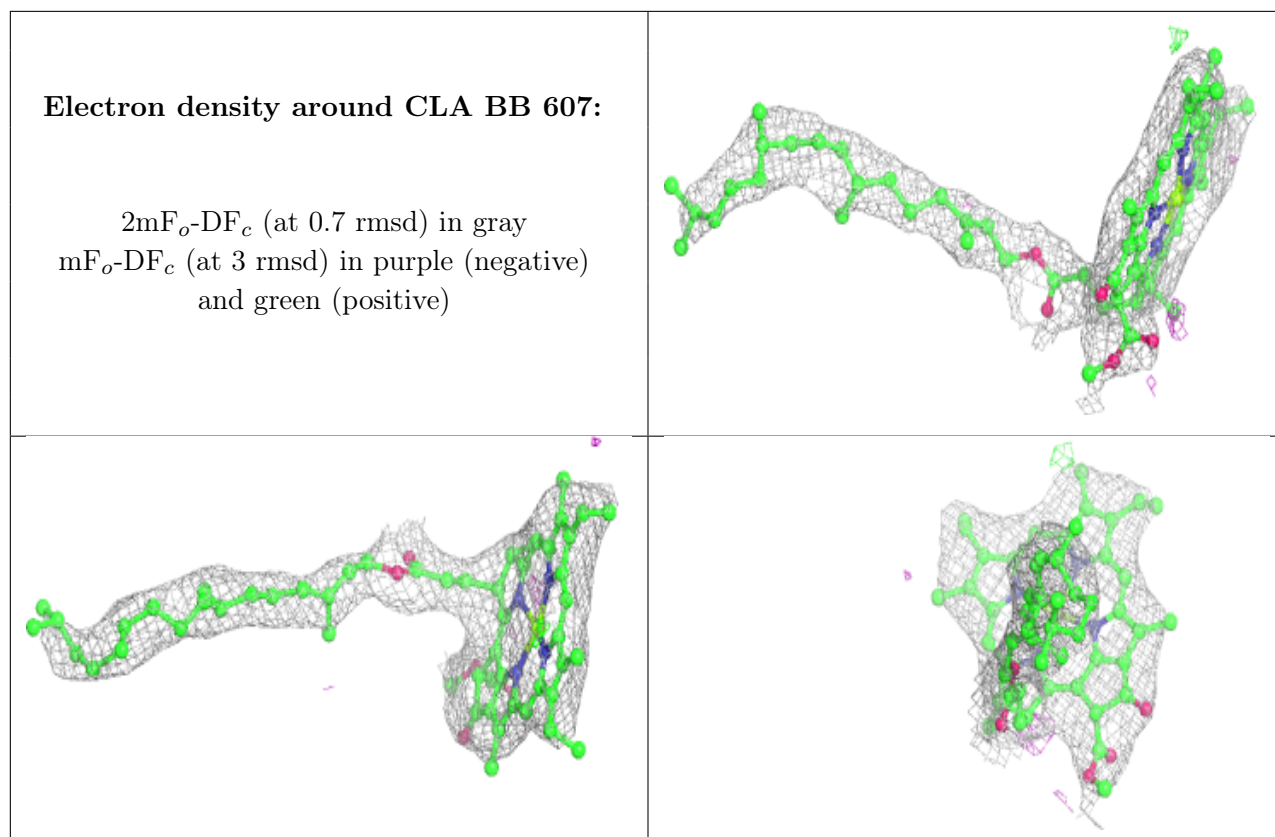
**Electron density around BCR AB 617:**

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



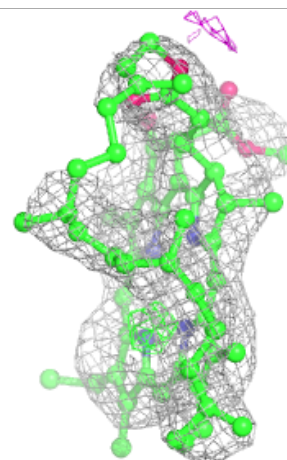
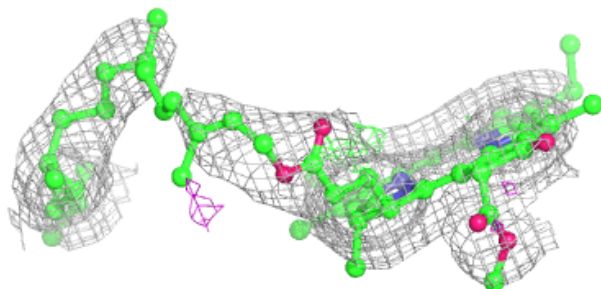
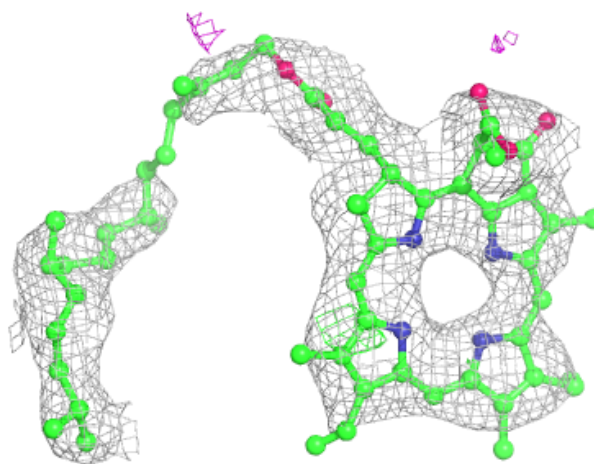






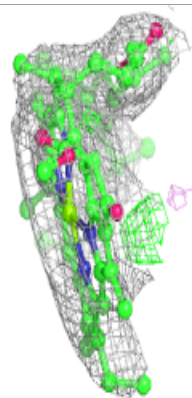
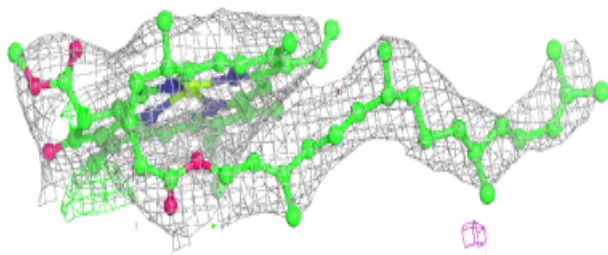
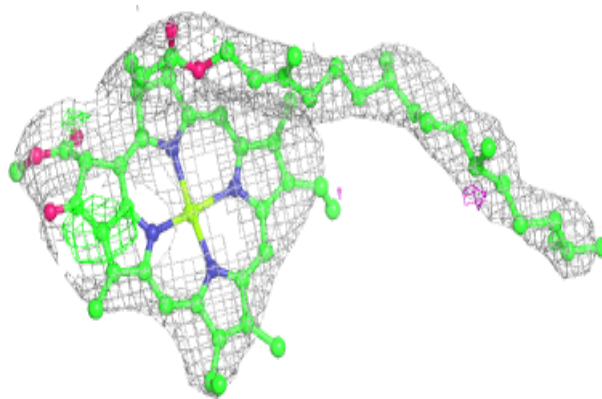
**Electron density around PHO BD 403:**

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

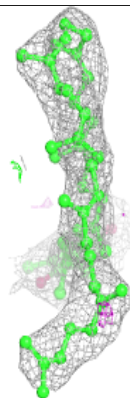
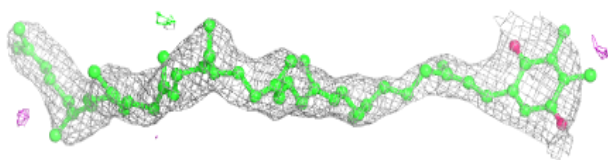
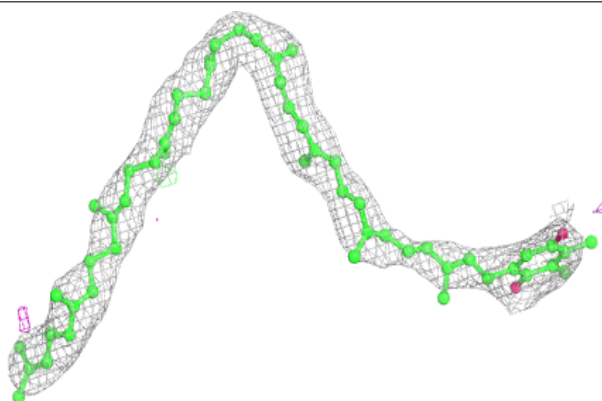


**Electron density around CLA BC 501:**

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

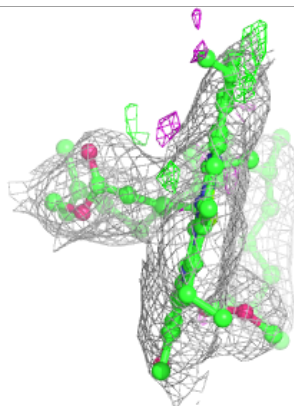
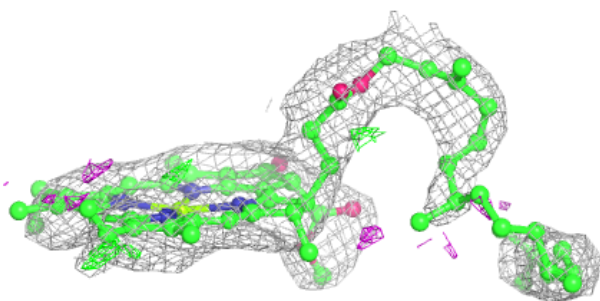
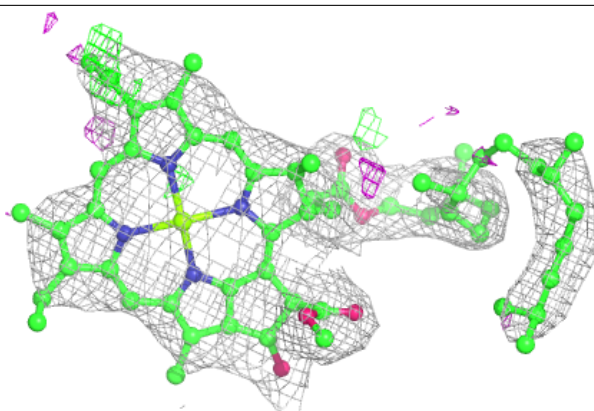
**Electron density around PL9 AD 405:**

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

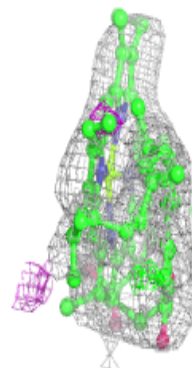
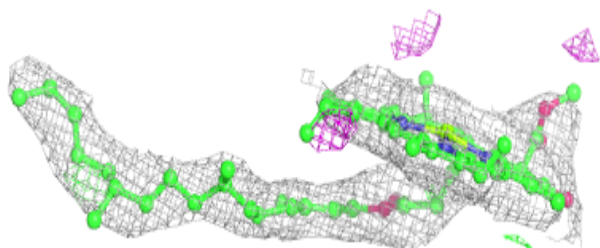
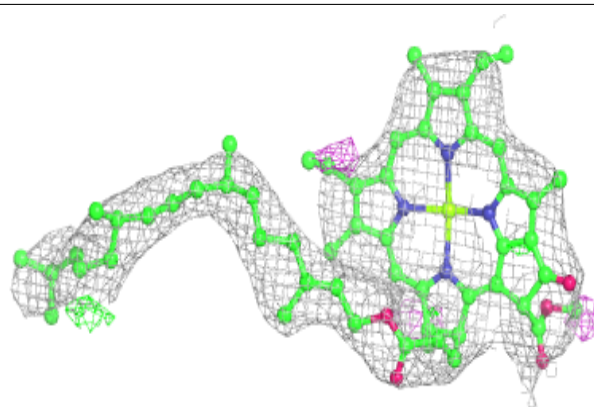


**Electron density around CLA AB 612:**

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

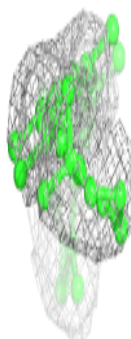
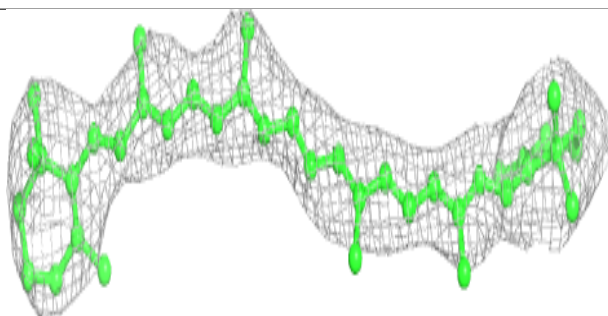
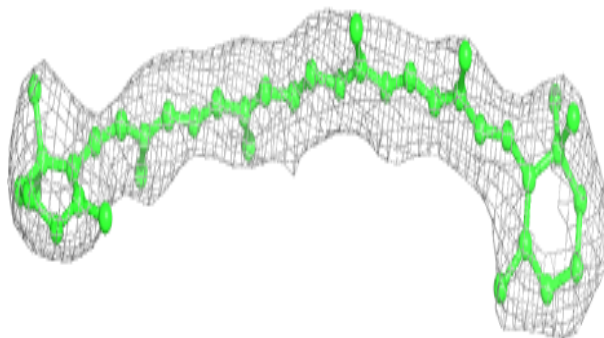
**Electron density around CLA AB 603:**

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

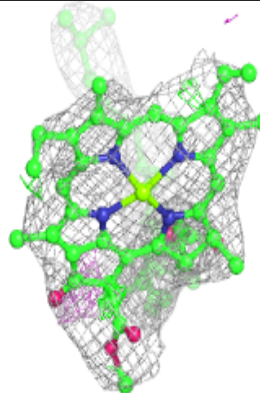
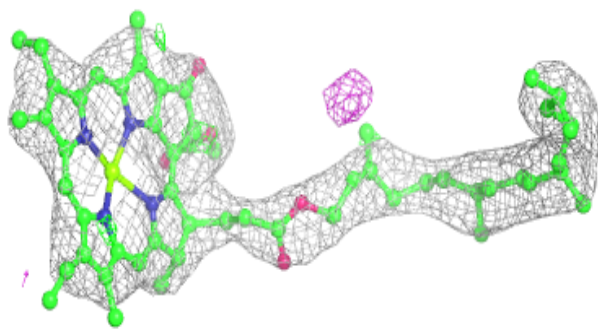
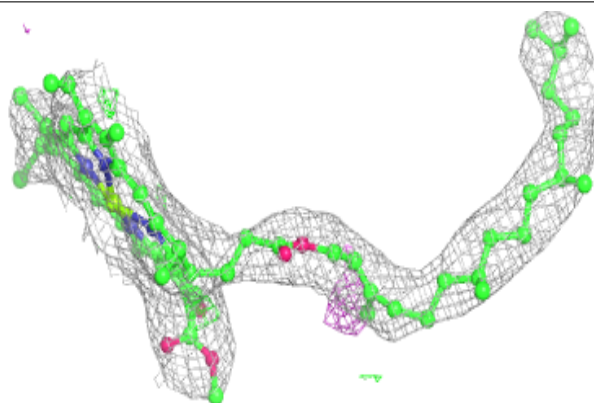


**Electron density around BCR AD 406:**

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

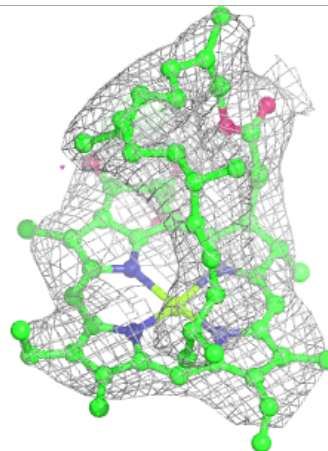
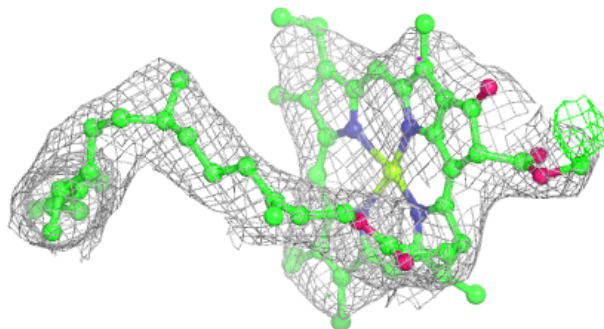
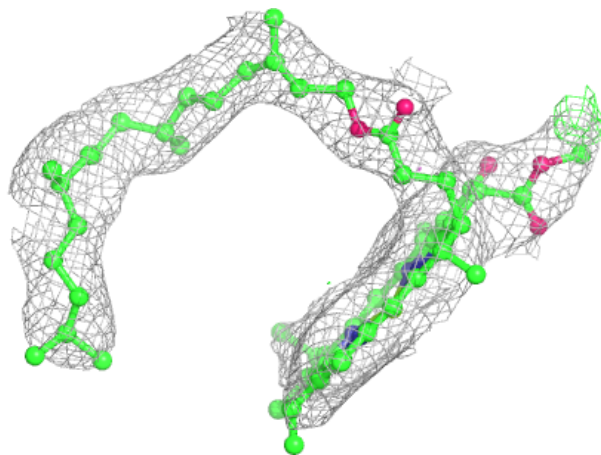
**Electron density around CLA AD 402:**

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



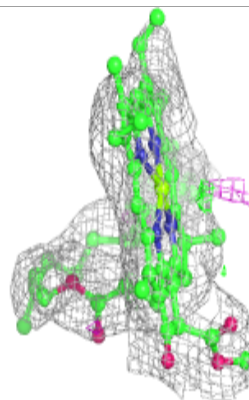
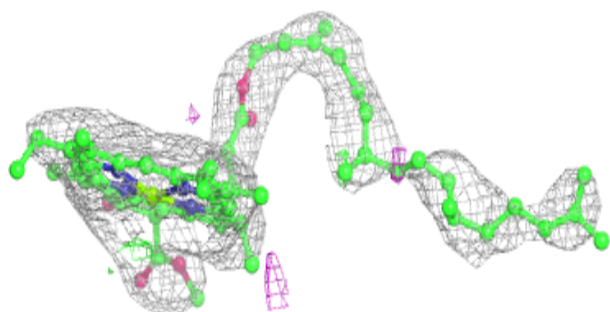
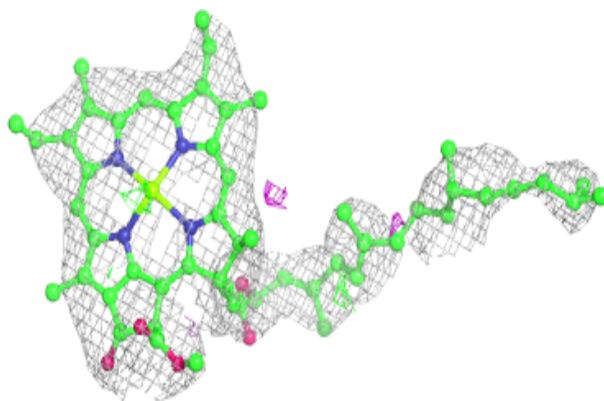
**Electron density around CLA AB 611:**

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

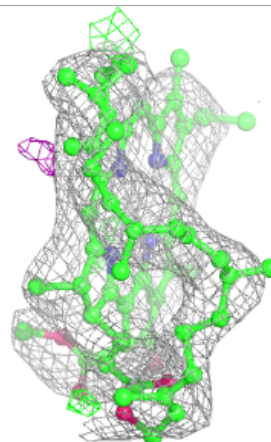
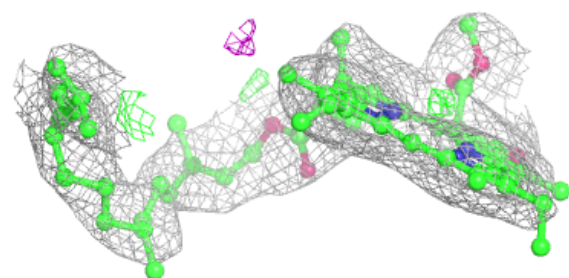
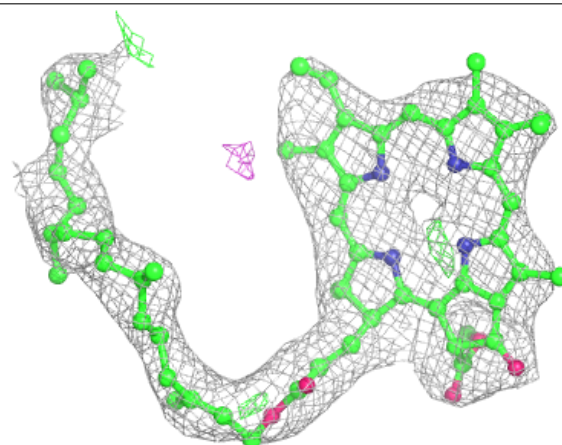


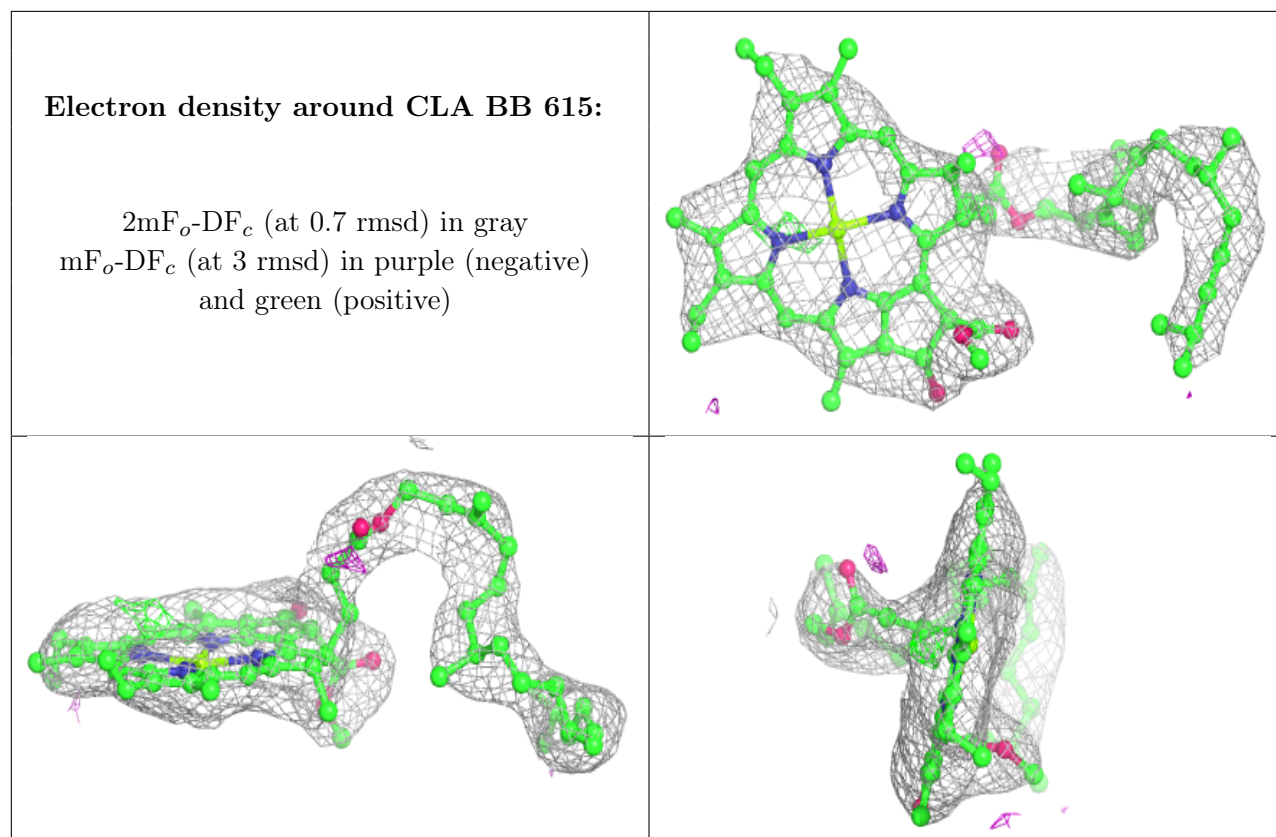
**Electron density around CLA BA 405:**

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

**Electron density around PHO AD 403:**

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

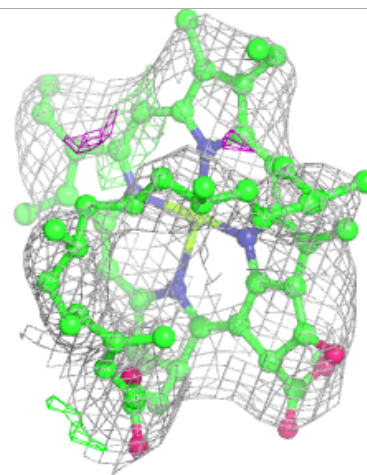
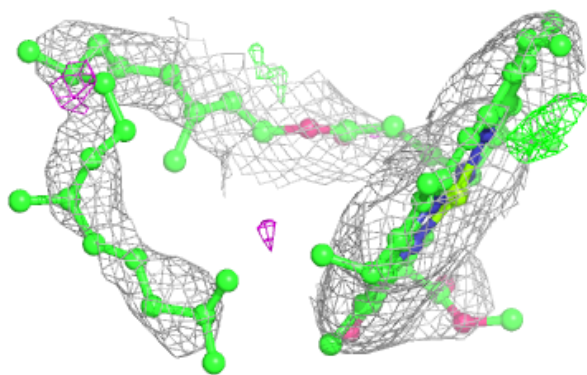
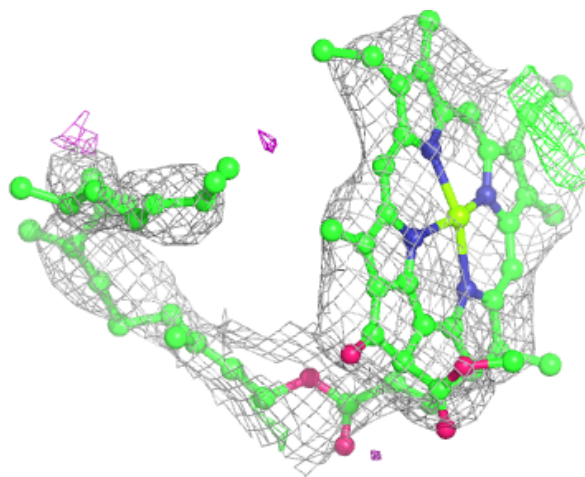






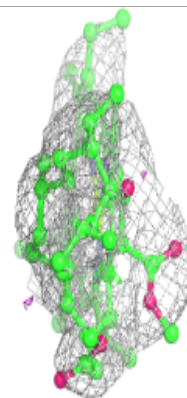
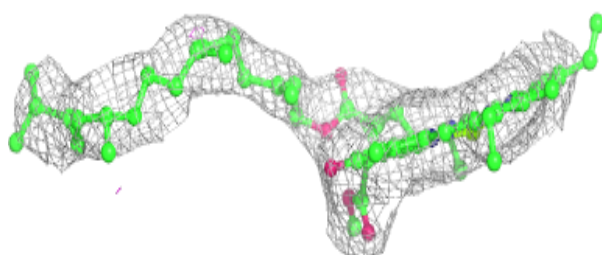
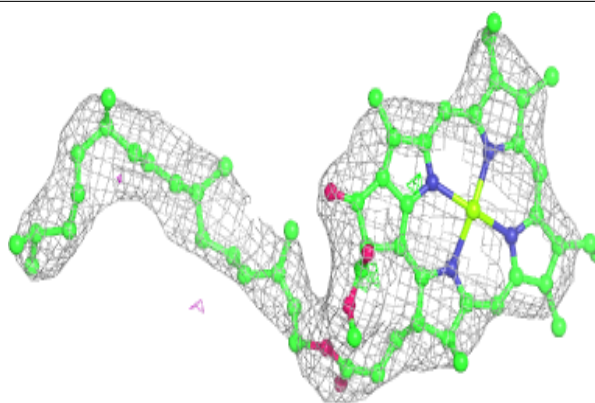
**Electron density around CLA AC 503:**

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

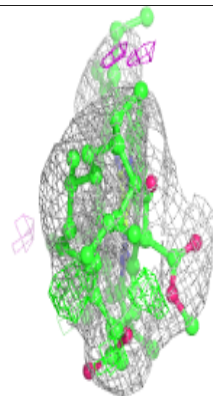
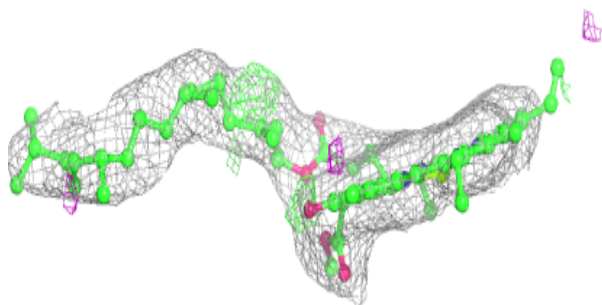
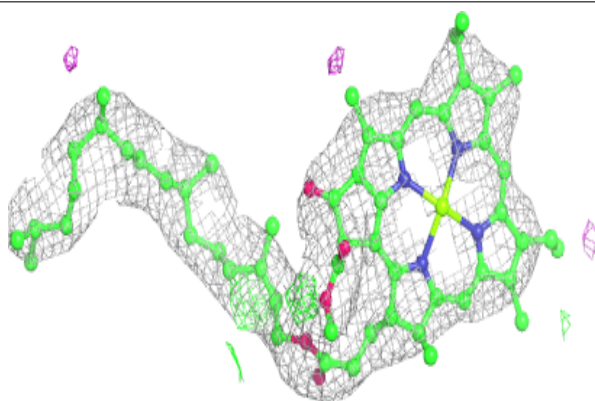


**Electron density around CLA AB 602:**

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

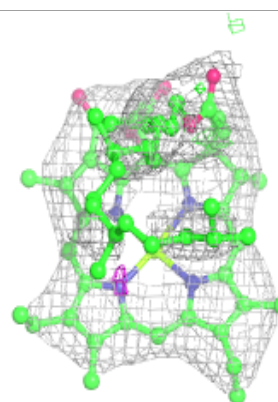
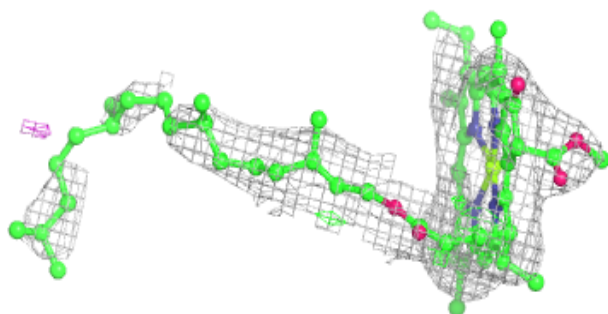
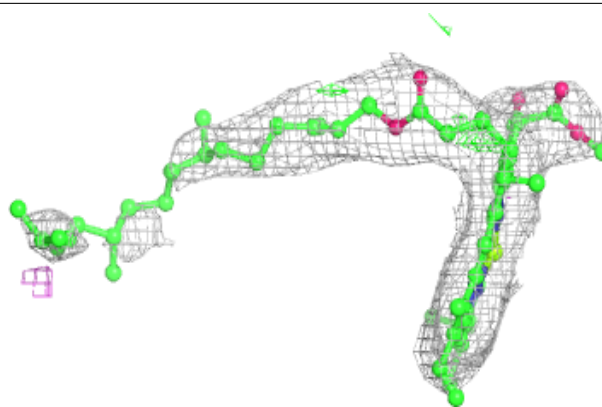
**Electron density around CLA BB 605:**

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

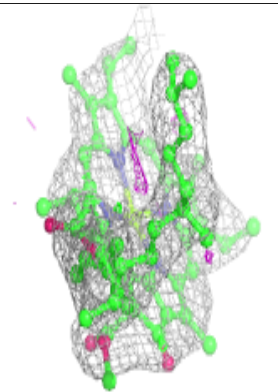
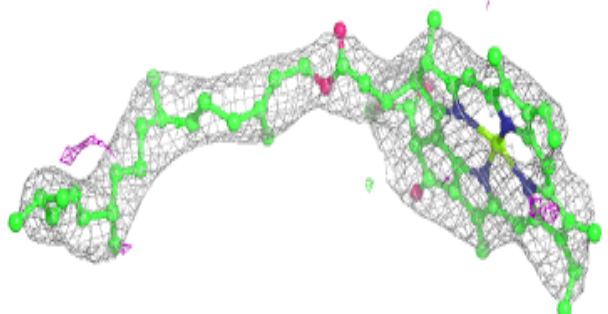
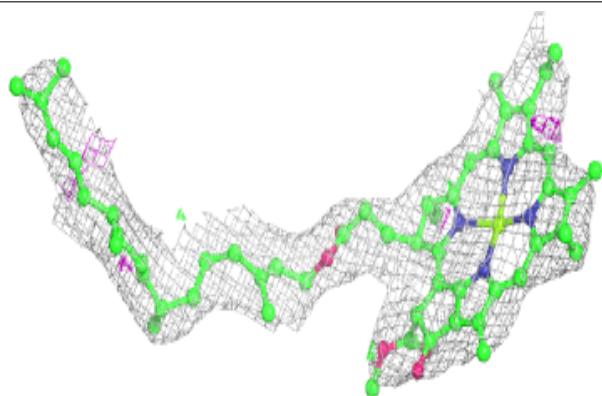


**Electron density around CLA AB 605:**

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

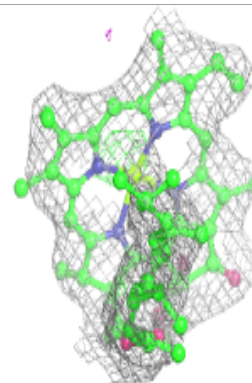
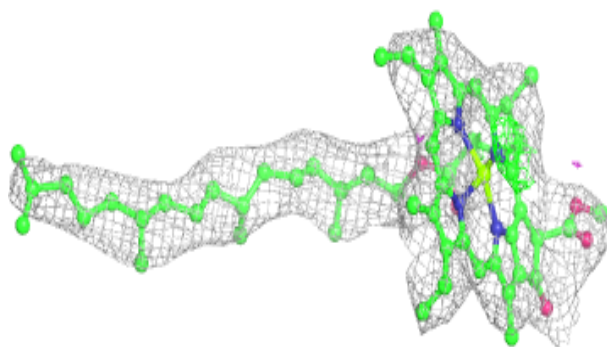
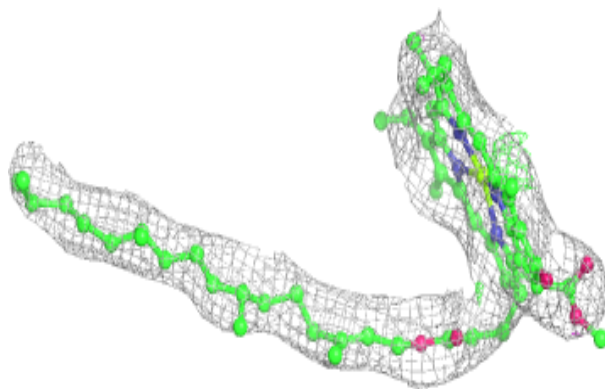
**Electron density around CLA BA 403:**

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

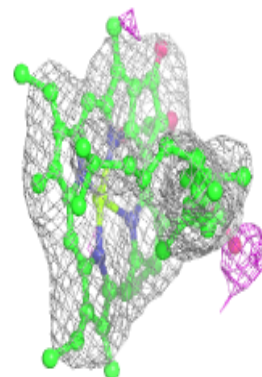
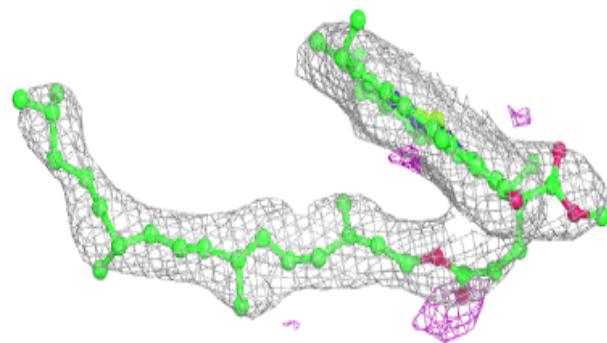
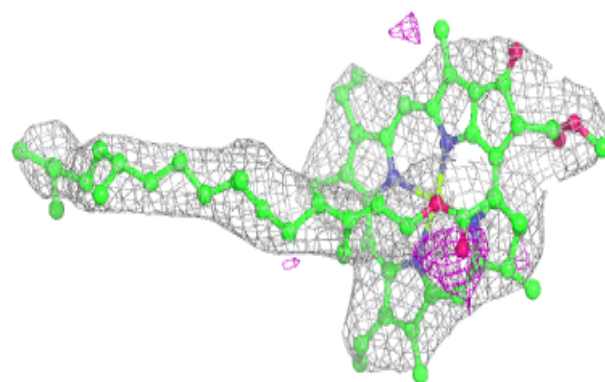


**Electron density around CLA BB 610:**

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

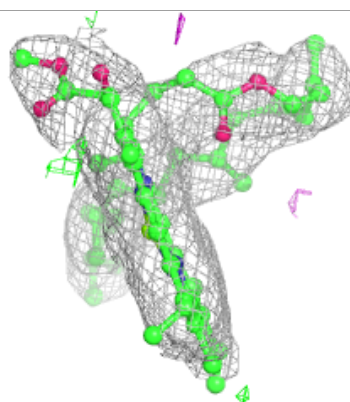
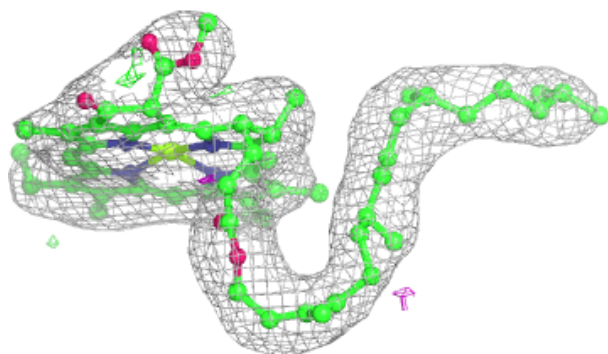
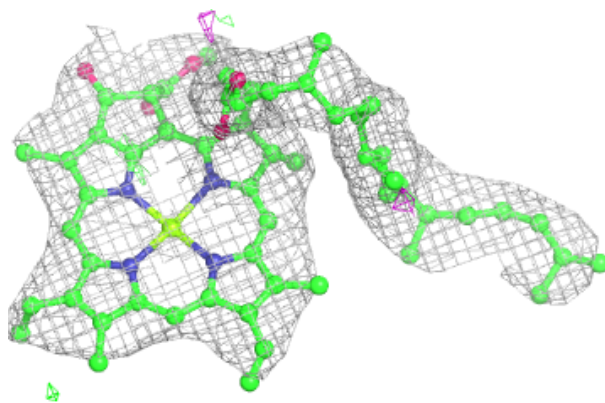
**Electron density around CLA BB 611:**

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

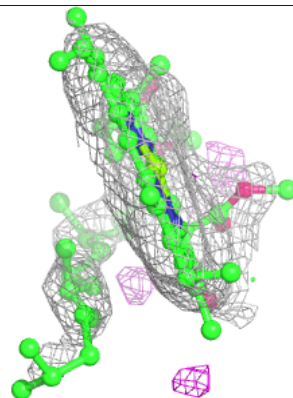
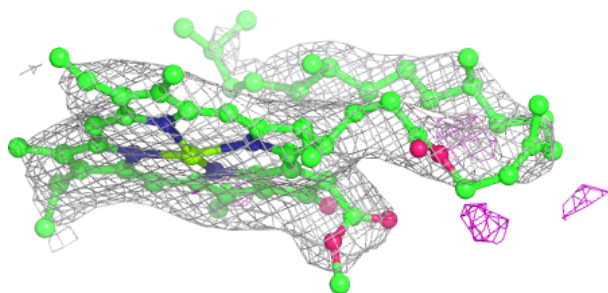
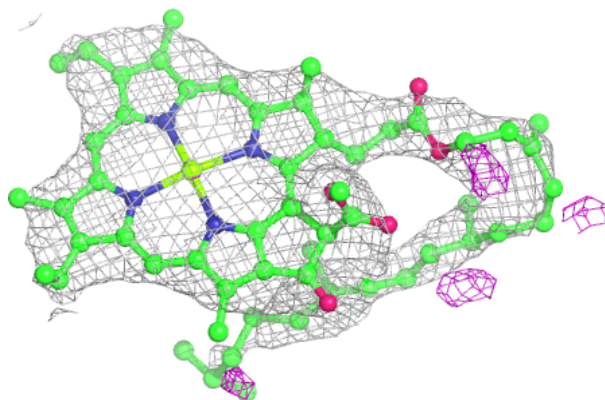


**Electron density around CLA BA 404:**

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

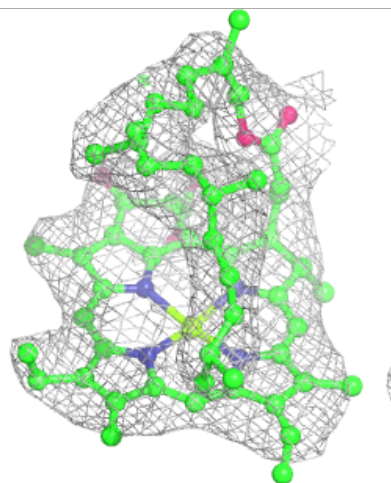
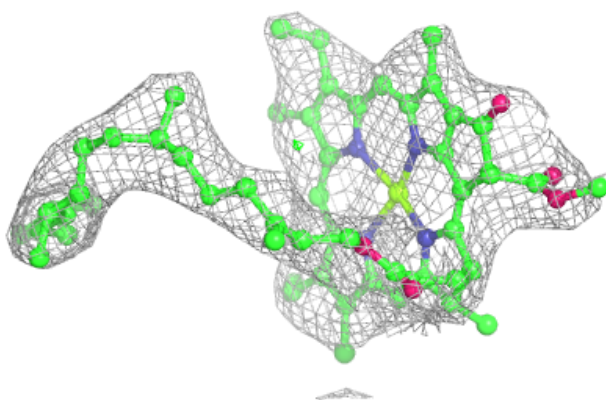
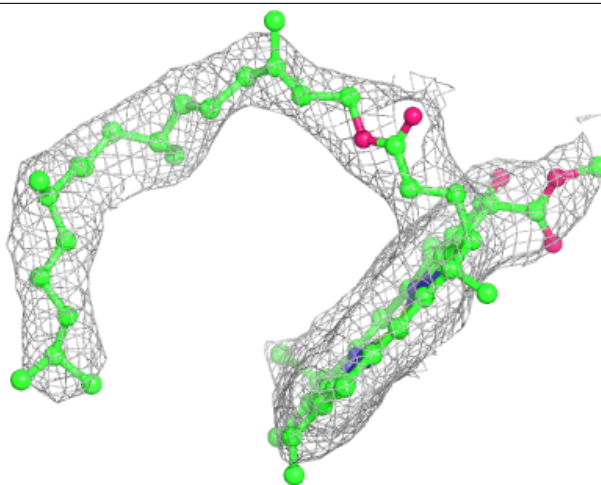
**Electron density around CLA AC 509:**

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



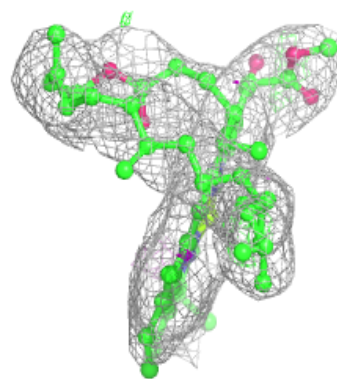
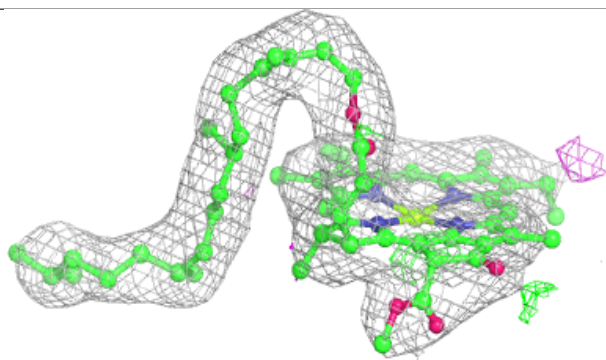
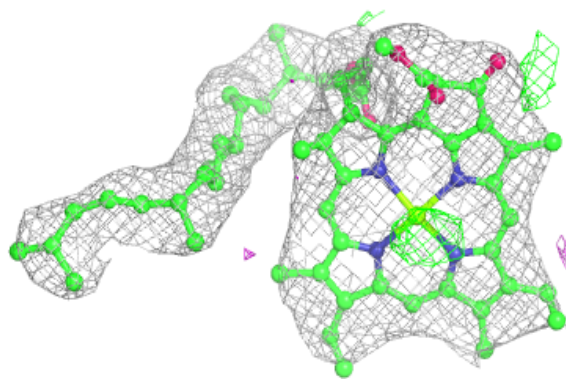
**Electron density around CLA BB 614:**

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



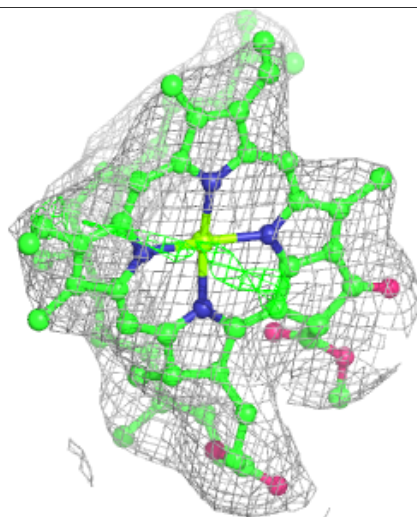
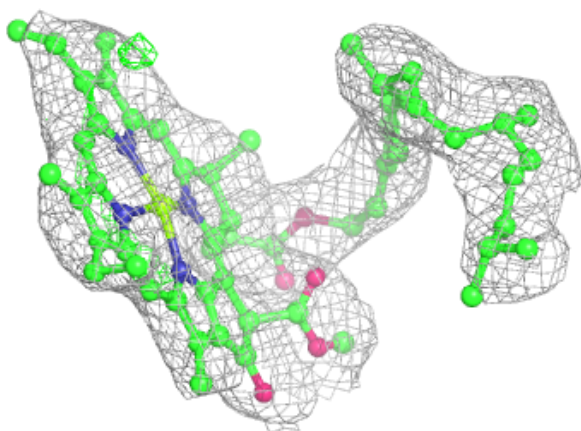
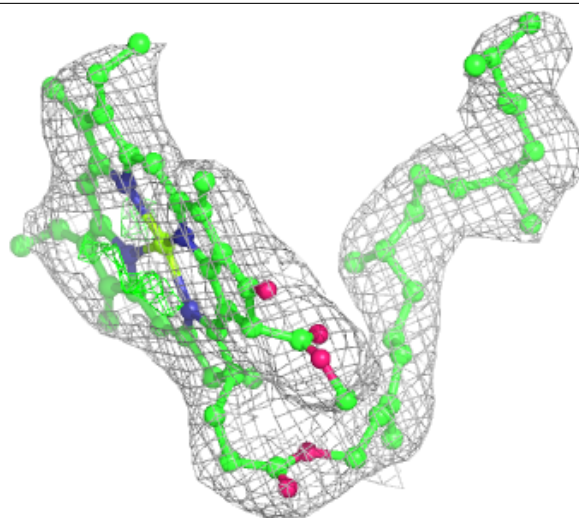
**Electron density around CLA AA 403:**

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



**Electron density around CLA BB 616:**

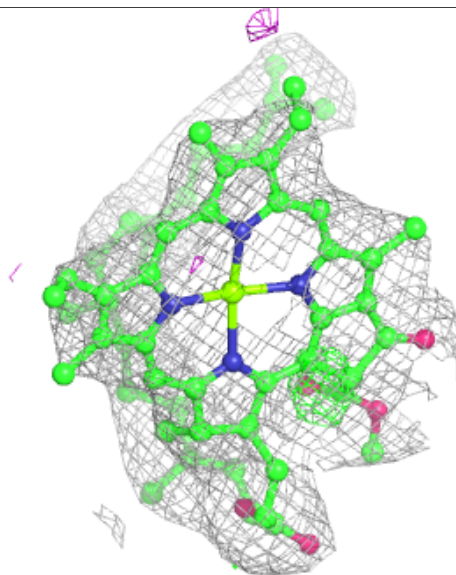
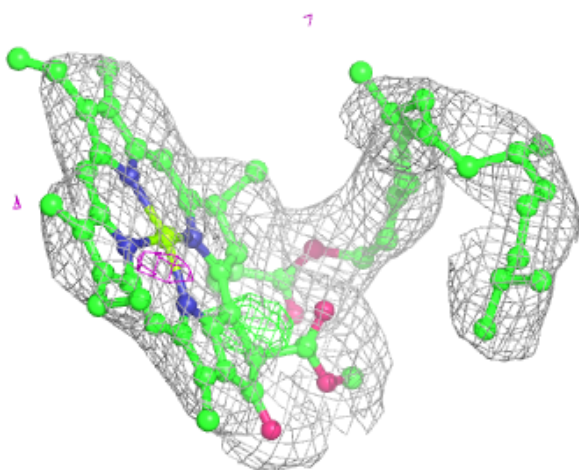
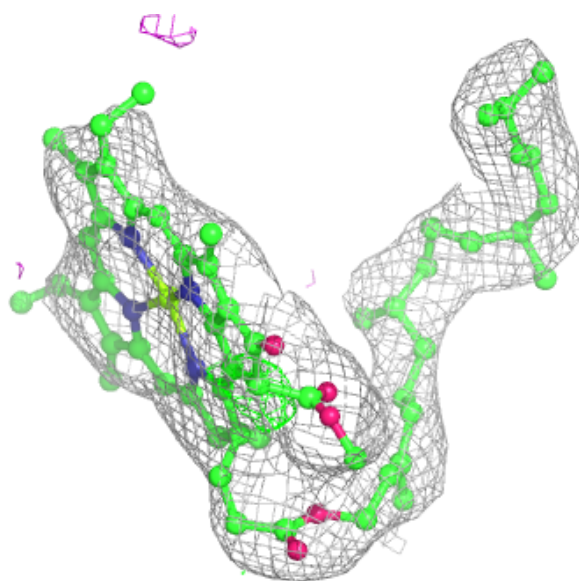
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





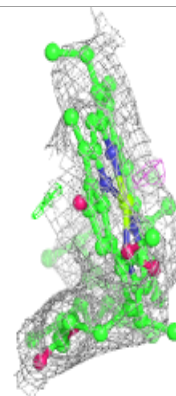
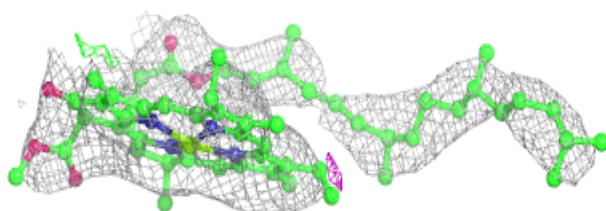
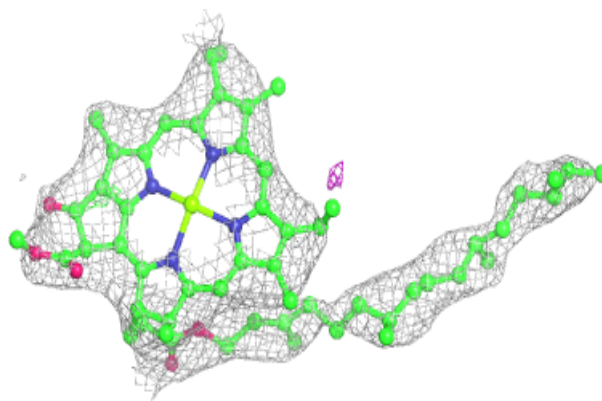
**Electron density around CLA AB 613:**

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

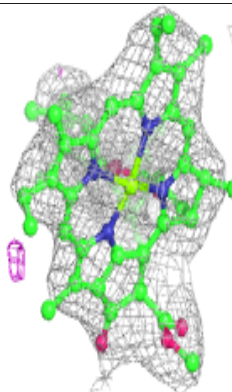
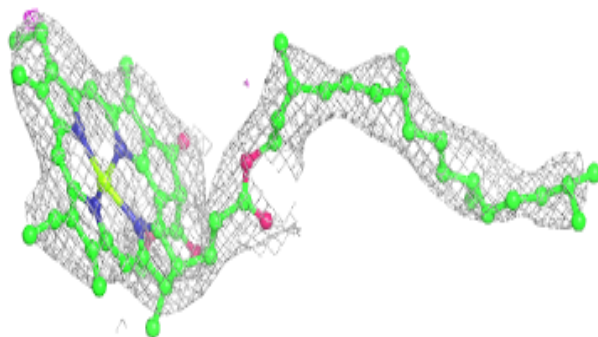
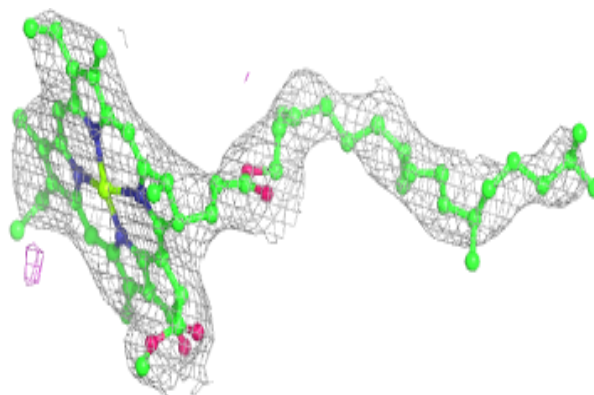


**Electron density around CLA AC 501:**

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

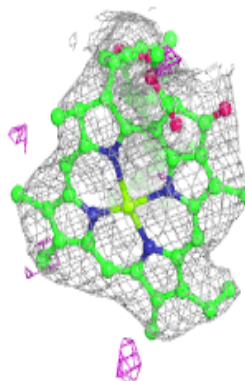
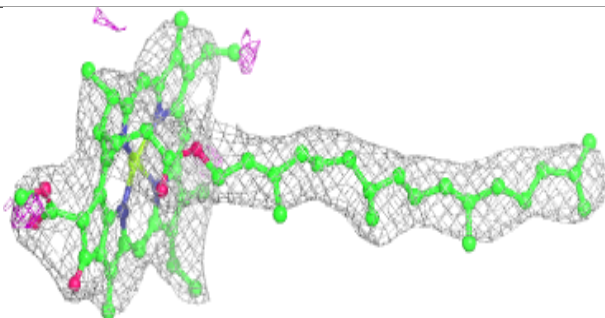
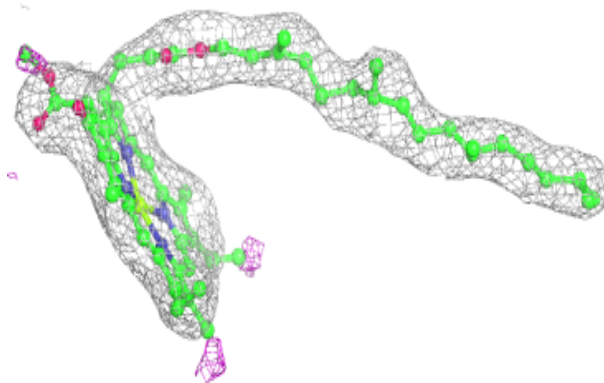
**Electron density around CLA AC 502:**

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

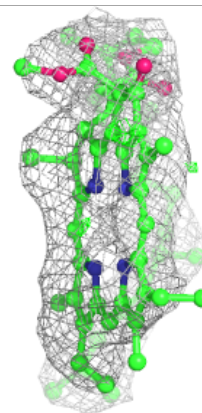
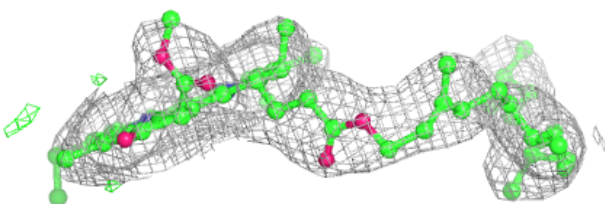
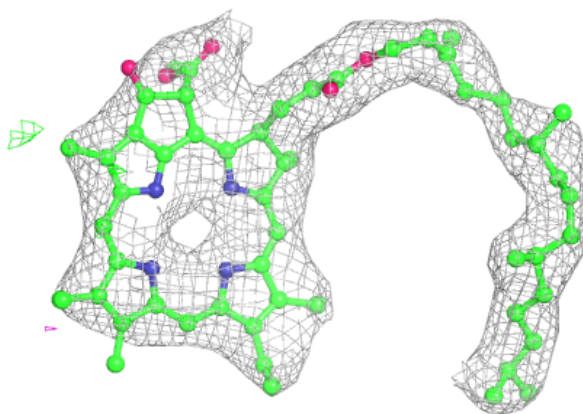


**Electron density around CLA AB 607:**

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

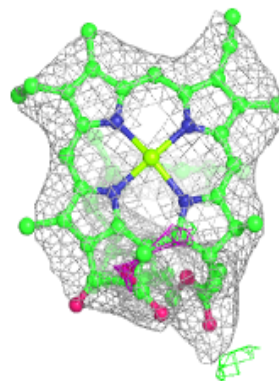
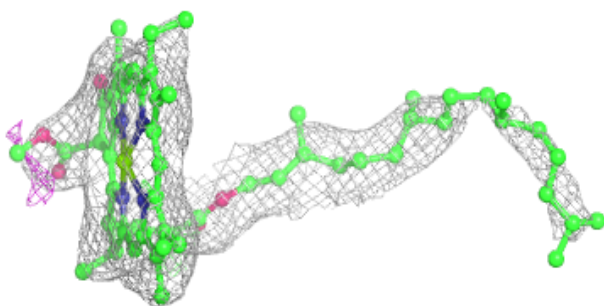
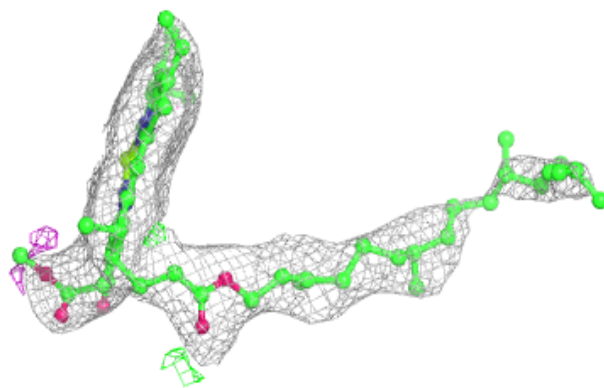
**Electron density around PHO AA 405:**

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

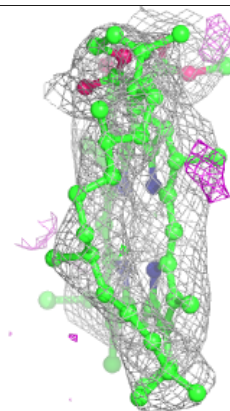
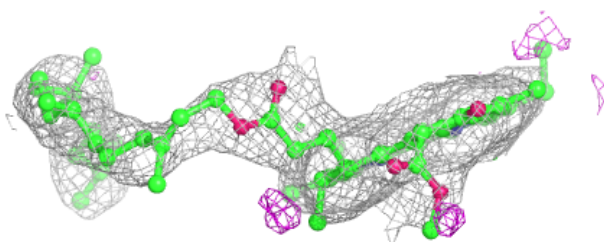
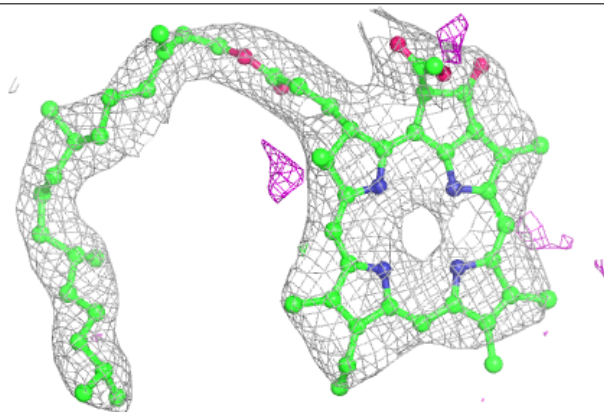


**Electron density around CLA BB 608:**

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

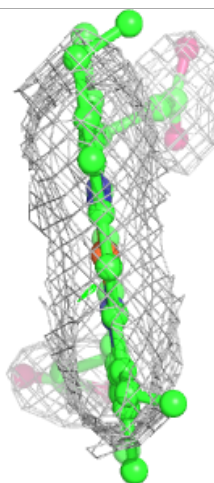
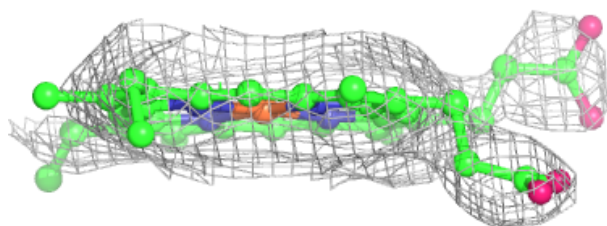
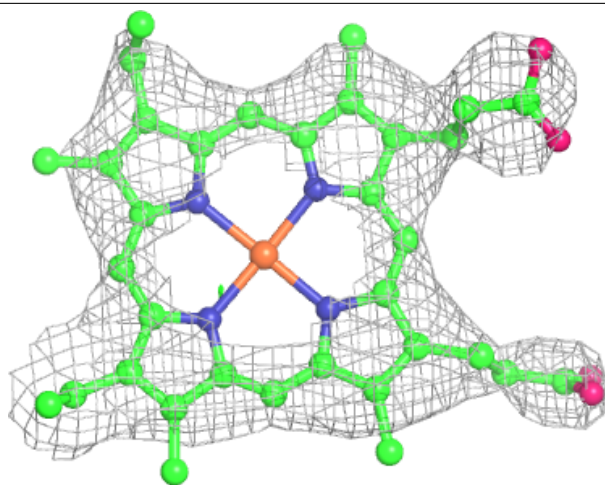
**Electron density around PHO BA 406:**

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



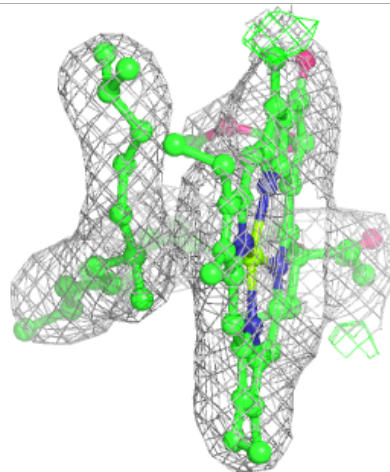
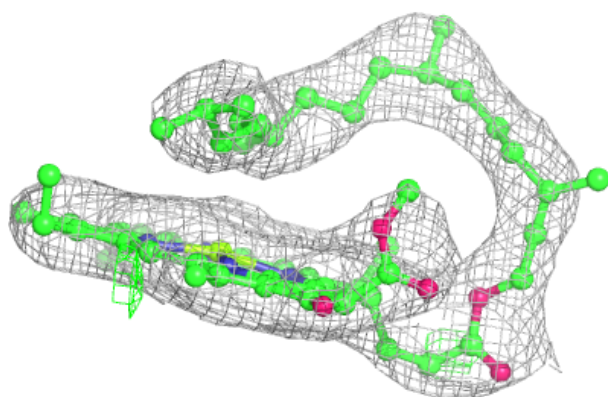
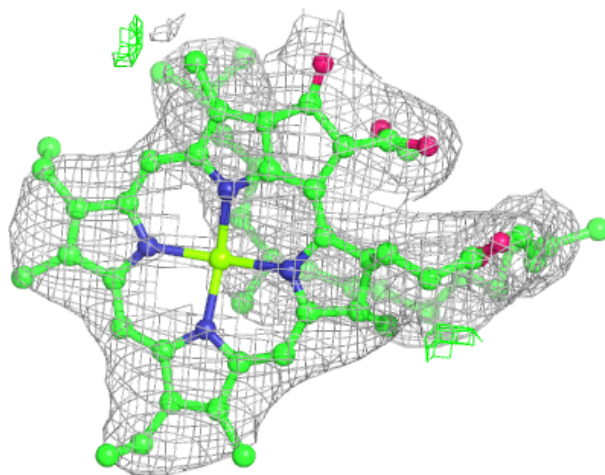
**Electron density around HEM BV 201:**

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



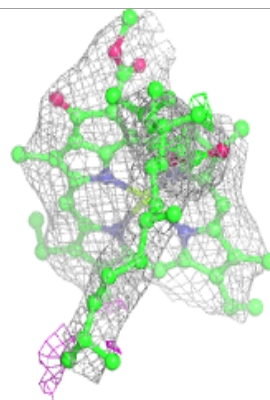
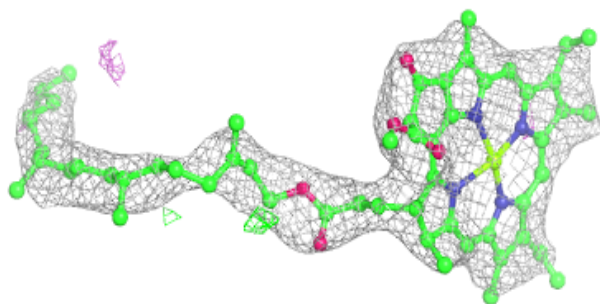
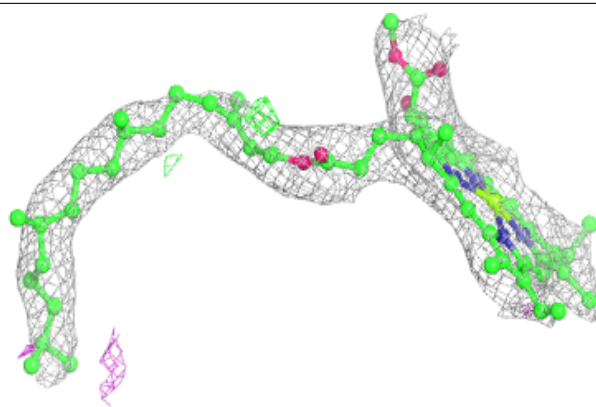
**Electron density around CLA AC 510:**

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



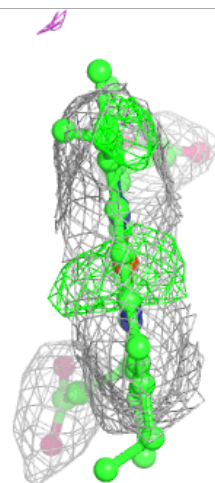
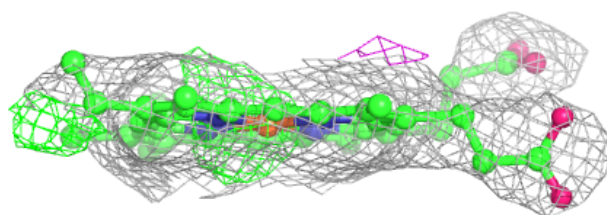
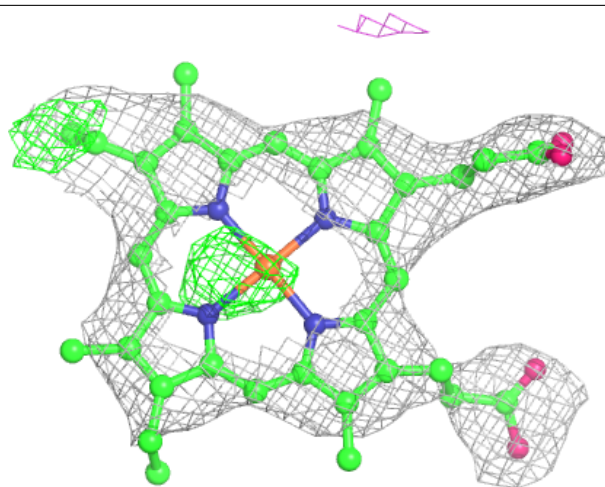
**Electron density around CLA BD 402:**

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

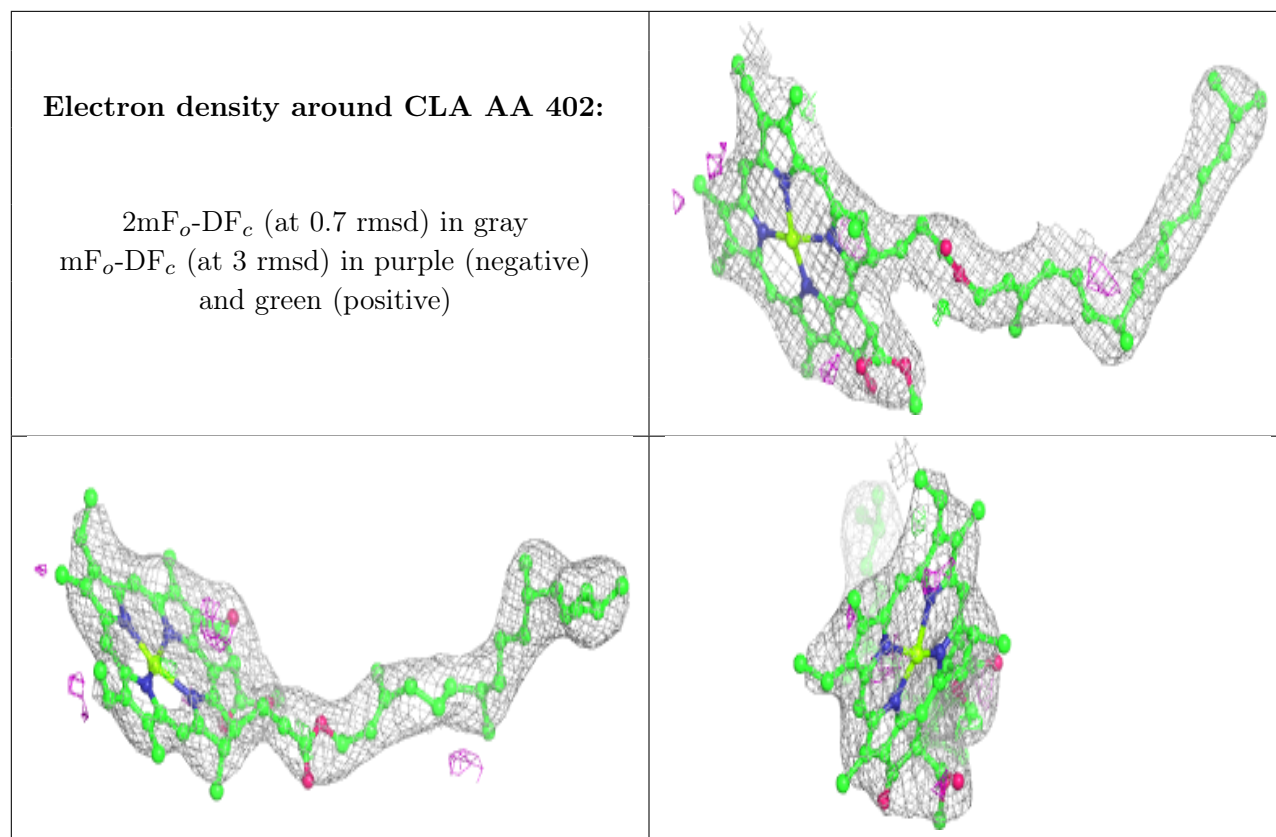


**Electron density around HEM AV 201:**

$2mF_o-DF_c$  (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.