



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 10, 2023 – 04:37 AM EDT

PDB ID : 7M75  
Title : Room Temperature XFEL Crystallography reveals asymmetry in the vicinity of the two phylloquinones in Photosystem I  
Authors : Keable, S.M.; Simon, P.S.; Kolsch, A.; Kern, J.; Yachandra, V.K.; Zouni, A.; Yano, J.  
Deposited on : 2021-03-26  
Resolution : 2.75 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.35.1  
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) : 2.35.1

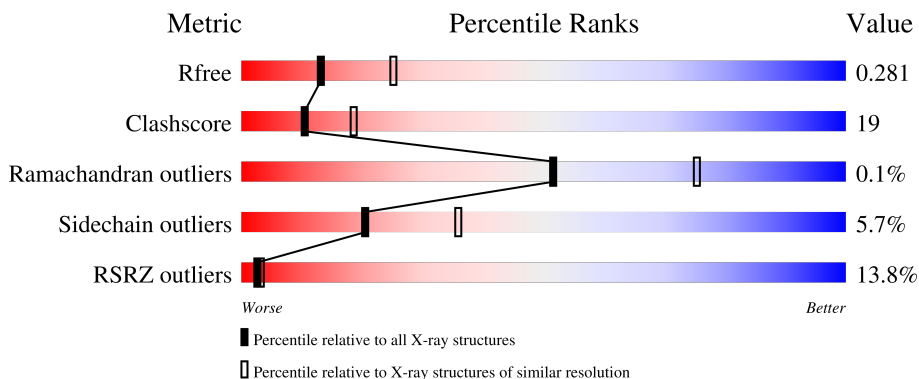
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.75 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	1235 (2.78-2.74)
Clashscore	141614	1277 (2.78-2.74)
Ramachandran outliers	138981	1257 (2.78-2.74)
Sidechain outliers	138945	1257 (2.78-2.74)
RSRZ outliers	127900	1207 (2.78-2.74)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	755	
2	B	740	
3	C	80	
4	D	138	

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Mol	Chain	Length	Quality of chain
5	E	75	
6	F	164	
7	I	38	
8	J	41	
9	K	83	
10	L	154	
11	M	31	
12	X	35	

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
13	CL0	A	801	X	-	-	-
14	CLA	A	802	X	-	-	-
14	CLA	A	803	X	-	-	-
14	CLA	A	804	X	-	-	-
14	CLA	A	805	X	-	-	-
14	CLA	A	806	X	-	-	-
14	CLA	A	807	X	-	-	-
14	CLA	A	808	X	-	-	-
14	CLA	A	809	X	-	-	-
14	CLA	A	810	X	-	-	-
14	CLA	A	811	X	-	-	-
14	CLA	A	812	X	-	-	-
14	CLA	A	813	X	-	-	-
14	CLA	A	814	X	-	-	-
14	CLA	A	815	X	-	-	-
14	CLA	A	816	X	-	-	-
14	CLA	A	817	X	-	-	-
14	CLA	A	818	X	-	-	-
14	CLA	A	819	X	-	-	-
14	CLA	A	820	X	-	-	-
14	CLA	A	821	X	-	-	-
14	CLA	A	822	X	-	-	-
14	CLA	A	823	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	A	824	X	-	-	-
14	CLA	A	825	X	-	-	-
14	CLA	A	826	X	-	-	-
14	CLA	A	827	X	-	-	-
14	CLA	A	828	X	-	-	-
14	CLA	A	829	X	-	-	-
14	CLA	A	830	X	-	-	-
14	CLA	A	831	X	-	-	-
14	CLA	A	832	X	-	-	-
14	CLA	A	833	X	-	-	-
14	CLA	A	834	X	-	-	-
14	CLA	A	835	X	-	-	-
14	CLA	A	836	X	-	-	-
14	CLA	A	837	X	-	-	-
14	CLA	A	838	X	-	-	-
14	CLA	A	839	X	-	-	-
14	CLA	A	840	X	-	-	-
14	CLA	A	841	X	-	-	-
14	CLA	A	842	X	-	-	-
14	CLA	A	843	X	-	-	-
14	CLA	A	844	X	-	-	-
14	CLA	A	845	X	-	-	-
14	CLA	A	856	X	-	-	-
14	CLA	B	3003	X	-	-	-
14	CLA	B	3004	X	-	-	-
14	CLA	B	3005	X	-	-	-
14	CLA	B	3006	X	-	-	-
14	CLA	B	3007	X	-	-	-
14	CLA	B	3008	X	-	-	-
14	CLA	B	3009	X	-	-	-
14	CLA	B	3010	X	-	-	-
14	CLA	B	3011	X	-	-	-
14	CLA	B	3012	X	-	-	-
14	CLA	B	3013	X	-	-	-
14	CLA	B	3014	X	-	-	-
14	CLA	B	3015	X	-	-	-
14	CLA	B	3016	X	-	-	-
14	CLA	B	3017	X	-	-	-
14	CLA	B	3018	X	-	-	-
14	CLA	B	3019	X	-	-	-
14	CLA	B	3020	X	-	-	-
14	CLA	B	3021	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	CLA	B	3022	X	-	-	-
14	CLA	B	3023	X	-	-	-
14	CLA	B	3024	X	-	-	-
14	CLA	B	3026	X	-	-	-
14	CLA	B	3027	X	-	-	-
14	CLA	B	3028	X	-	-	-
14	CLA	B	3029	X	-	-	-
14	CLA	B	3030	X	-	-	-
14	CLA	B	3031	X	-	-	-
14	CLA	B	3032	X	-	-	-
14	CLA	B	3033	X	-	-	-
14	CLA	B	3034	X	-	-	-
14	CLA	B	3035	X	-	-	-
14	CLA	B	3036	X	-	-	-
14	CLA	B	3037	X	-	-	-
14	CLA	B	3038	X	-	-	-
14	CLA	B	3039	X	-	-	-
14	CLA	B	3041	X	-	-	-
14	CLA	F	202	X	-	-	-
14	CLA	I	101	X	-	-	-
14	CLA	J	101	X	-	-	-
14	CLA	J	102	X	-	-	-
14	CLA	K	101	X	-	-	-
14	CLA	K	103	X	-	-	-
14	CLA	L	203	X	-	-	-
14	CLA	L	204	X	-	-	-
14	CLA	L	205	X	-	-	-
14	CLA	M	102	X	-	-	X
14	CLA	X	1701	X	-	-	-
16	BCR	A	847	-	-	-	X
16	BCR	A	848	-	-	-	X
16	BCR	B	3043	-	-	-	X
16	BCR	F	201	-	-	-	X
16	BCR	J	105	-	-	-	X
16	BCR	K	102	-	-	-	X
17	LMG	I	104	-	-	-	X
18	LHG	M	101	-	-	-	X
21	LMT	L	201	-	-	-	X

## 2 Entry composition [i](#)

There are 23 unique types of molecules in this entry. The entry contains 48896 atoms, of which 24384 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 I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	740	11422	3794	5638	988	976	26	0	0	0

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	B	739	11507	3876	5618	987	1005	21	0	0	0

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
3	C	80	1174	367	576	103	117	11	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
4	D	138	2152	682	1077	186	204	3	0	0	0

- Molecule 5 is a protein called Photosystem I reaction center subunit IV.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	H	N	O			
5	E	69	1067	342	528	93	104	0	0	0

- Molecule 6 is a protein called Photosystem I reaction center subunit III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
6	F	141	2141	680	1076	184	197	4	0	0	0

- Molecule 7 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
7	I	38	607	208	306	40	48	5	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
8	J	41	685	231	347	51	54	2	0	0	0

- Molecule 9 is a protein called Photosystem I reaction center subunit PsaK.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
9	K	47	687	217	354	58	57	1	0	0	0

- Molecule 10 is a protein called Photosystem I reaction center subunit XI.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
10	L	151	2244	735	1125	179	201	4	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	143	LEU	SER	conflict	UNP Q8DGB4

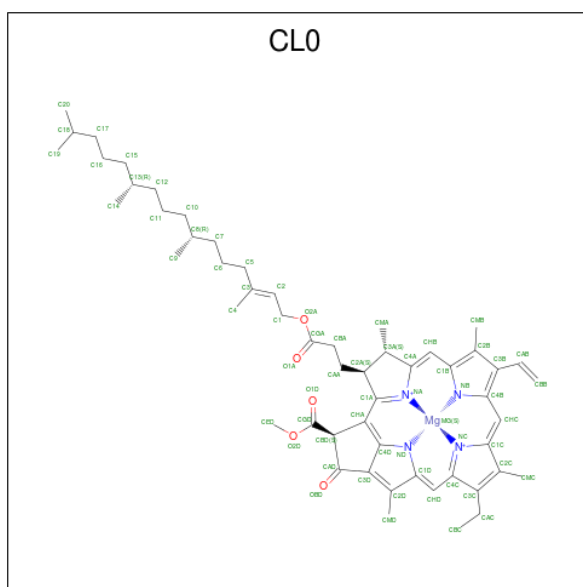
- Molecule 11 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
11	M	31	505	161	264	36	43	1	0	0	0

- Molecule 12 is a protein called Photosystem I 4.8K protein.

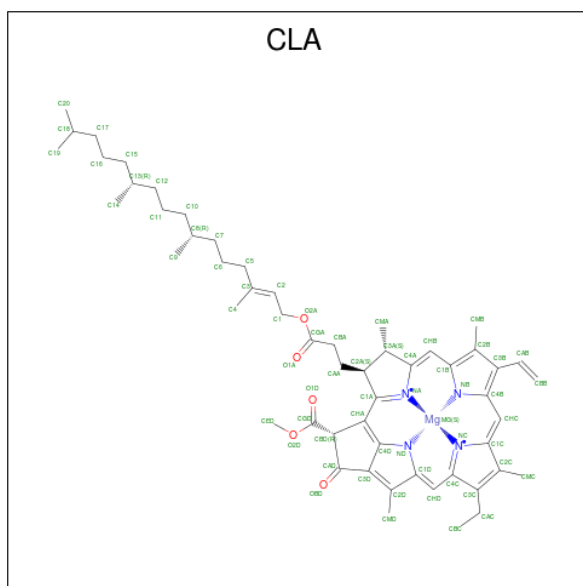
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
			Total	C	H	N				O
12	X	29	459	172	217	35	35	0	0	0

- Molecule 13 is CHLOROPHYLL A ISOMER (three-letter code: CL0) (formula: C<sub>55</sub>H<sub>72</sub>MgN<sub>4</sub>O<sub>5</sub>).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N			O
13	A	1	137	55	72	1	4	5	0	0

- Molecule 14 is CHLOROPHYLL A (three-letter code: CLA) (formula:  $C_{55}H_{72}MgN_4O_5$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N			O
14	A	1	137	55	72	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N	O		
14	A	1	117	49	58	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	92	41	41	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	78	35	33	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	102	44	48	1	4	5	0	0
14	A	1	119	50	59	1	4	5	0	0
14	A	1	78	35	33	1	4	5	0	0
14	A	1	78	35	33	1	4	5	0	0
14	A	1	88	39	39	1	4	5	0	0
14	A	1	102	44	48	1	4	5	0	0
14	A	1	102	44	48	1	4	5	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	72	35	29	1	4	3	0	0
14	A	1	137	55	72	1	4	5	0	0
14	A	1	88	39	39	1	4	5	0	0
14	A	1	92	41	41	1	4	5	0	0
14	A	1	117	49	58	1	4	5	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			89	40	39	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			102	44	48	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			92	41	41	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			82	37	35	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			92	41	41	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			95	42	43	1	4	5		
14	A	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			102	44	48	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			104	45	49	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			117	49	58	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			119	50	59	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			82	37	35	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	B	1	Total	C	H	Mg	N	O	0	0
			104	45	49	1	4	5		

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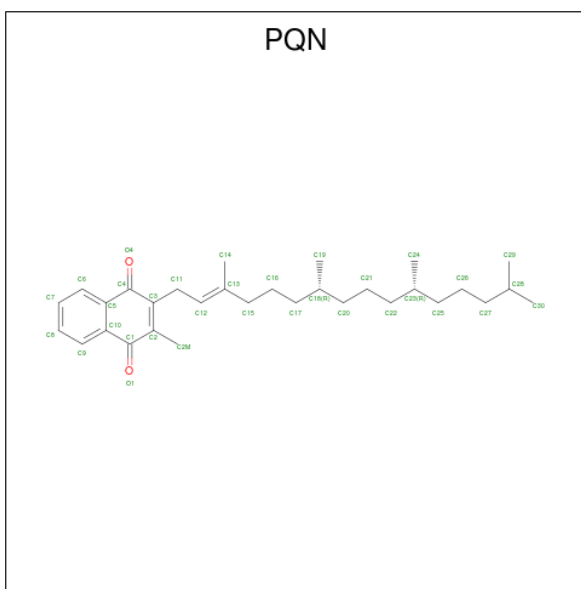
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	H	Mg	N	O		
14	B	1	78	35	33	1	4	5	0	0
14	B	1	102	44	48	1	4	5	0	0
14	B	1	79	36	33	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	88	39	39	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	113	48	55	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	78	35	33	1	4	5	0	0
14	B	1	119	50	59	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	B	1	82	37	35	1	4	5	0	0
14	B	1	137	55	72	1	4	5	0	0
14	F	1	78	35	33	1	4	5	0	0
14	I	1	137	55	72	1	4	5	0	0
14	J	1	78	35	33	1	4	5	0	0

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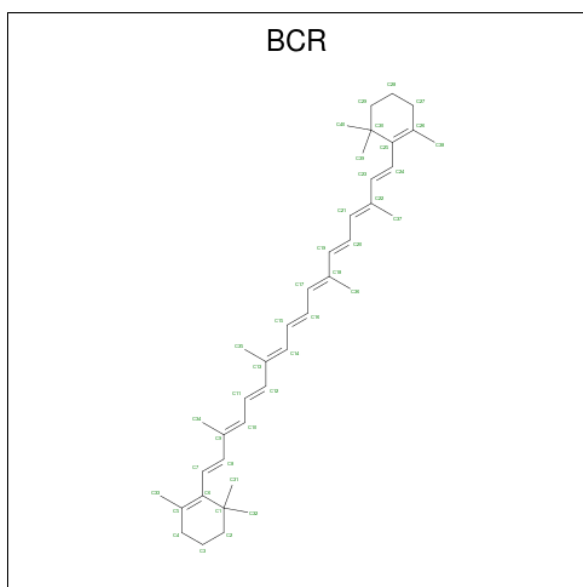
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
14	J	1	Total	C	H	Mg	N	O	0	0
			62	31	25	1	4	1		
14	K	1	Total	C	H	Mg	N	O	0	0
			70	33	29	1	4	3		
14	K	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	L	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	L	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	L	1	Total	C	H	Mg	N	O	0	0
			137	55	72	1	4	5		
14	M	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		
14	X	1	Total	C	H	Mg	N	O	0	0
			78	35	33	1	4	5		

- Molecule 15 is PHYLLOQUINONE (three-letter code: PQN) (formula:  $C_{31}H_{46}O_2$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
15	A	1	Total	C	H	O	0	0
			79	31	46	2		
15	B	1	Total	C	H	O	0	0
			79	31	46	2		

- Molecule 16 is BETA-CAROTENE (three-letter code: BCR) (formula:  $C_{40}H_{56}$ ).



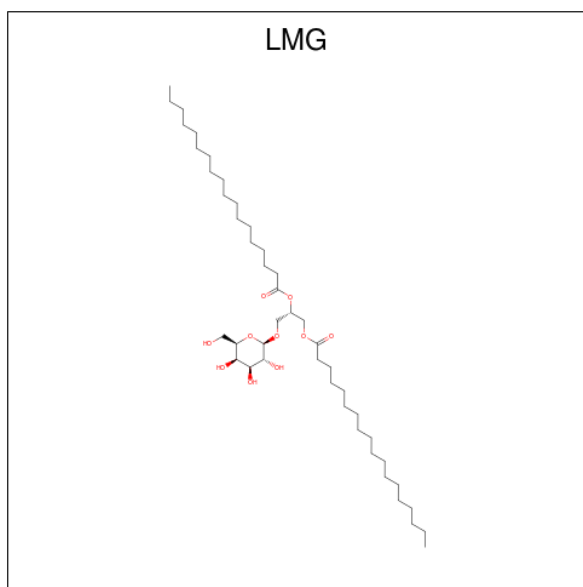
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
16	A	1	Total	C	H	0	0
			96	40	56		
16	A	1	Total	C	H	0	0
			96	40	56		
16	A	1	Total	C	H	0	0
			96	40	56		
16	A	1	Total	C	H	0	0
			96	40	56		
16	A	1	Total	C	H	0	0
			96	40	56		
16	B	1	Total	C	H	0	0
			96	40	56		
16	B	1	Total	C	H	0	0
			96	40	56		
16	B	1	Total	C	H	0	0
			96	40	56		
16	B	1	Total	C	H	0	0
			96	40	56		
16	B	1	Total	C	H	0	0
			96	40	56		
16	F	1	Total	C	H	0	0
			96	40	56		
16	F	1	Total	C	H	0	0
			96	40	56		
16	I	1	Total	C	H	0	0
			96	40	56		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
16	I	1	Total	C	H	0	0
			96	40	56		
16	I	1	Total	C	H	0	0
			96	40	56		
16	J	1	Total	C	H	0	0
			96	40	56		
16	J	1	Total	C	H	0	0
			96	40	56		
16	J	1	Total	C	H	0	0
			96	40	56		
16	K	1	Total	C	H	0	0
			96	40	56		
16	L	1	Total	C	H	0	0
			96	40	56		
16	M	1	Total	C	H	0	0
			96	40	56		

- Molecule 17 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula: C<sub>45</sub>H<sub>86</sub>O<sub>10</sub>).



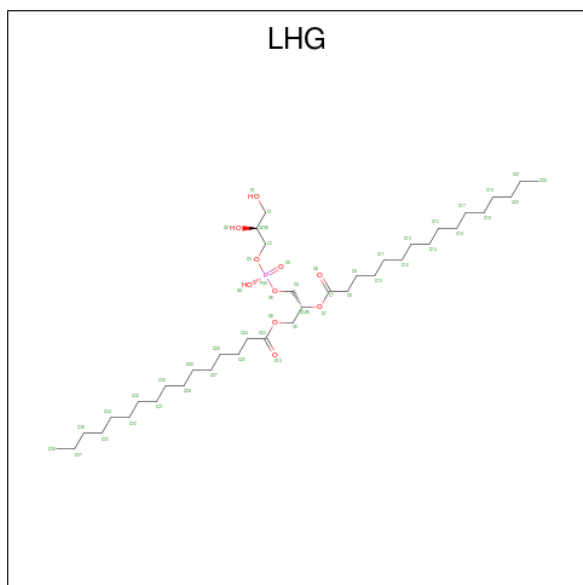
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
17	A	1	Total	C	H	O	0	0
			118	38	70	10		
17	A	1	Total	C	H	O	0	0
			67	22	37	8		
17	B	1	Total	C	H	O	0	0
			141	45	86	10		

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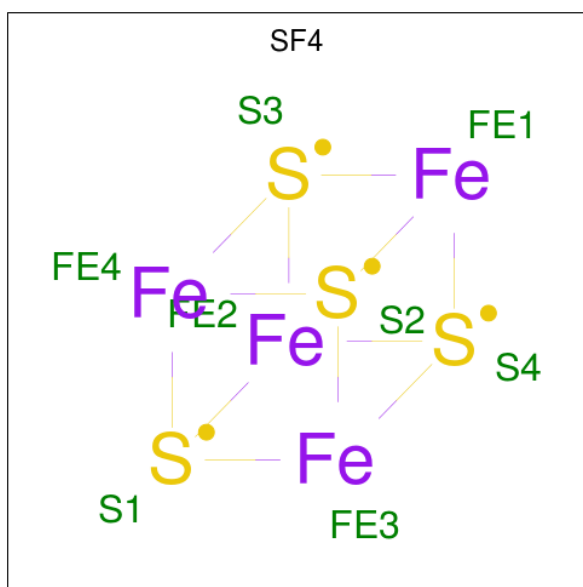
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
17	I	1	91	30	51	10	0	0

- Molecule 18 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	H	O	P		
18	A	1	123	38	74	10	1	0	0
18	A	1	53	16	26	10	1	0	0
18	B	1	43	12	20	10	1	0	0
18	M	1	123	38	74	10	1	0	0

- Molecule 19 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).

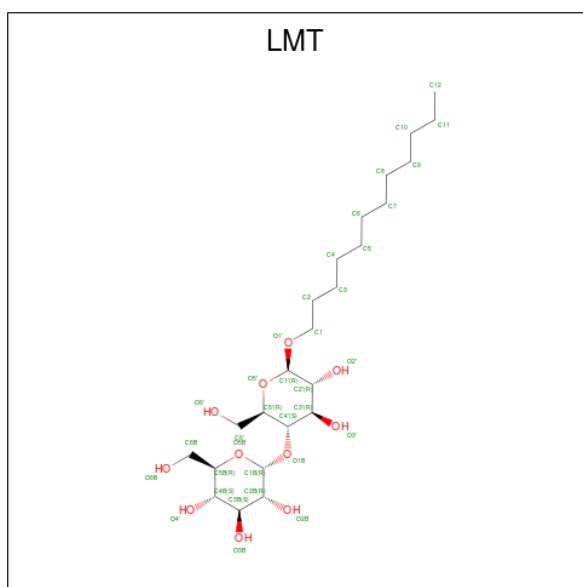


Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
19	B	1	Total	Fe S	0	0
			8	4 4		
19	C	1	Total	Fe S	0	0
			8	4 4		
19	C	1	Total	Fe S	0	0
			8	4 4		

- Molecule 20 is CALCIUM ION (three-letter code: CA) (formula: Ca).

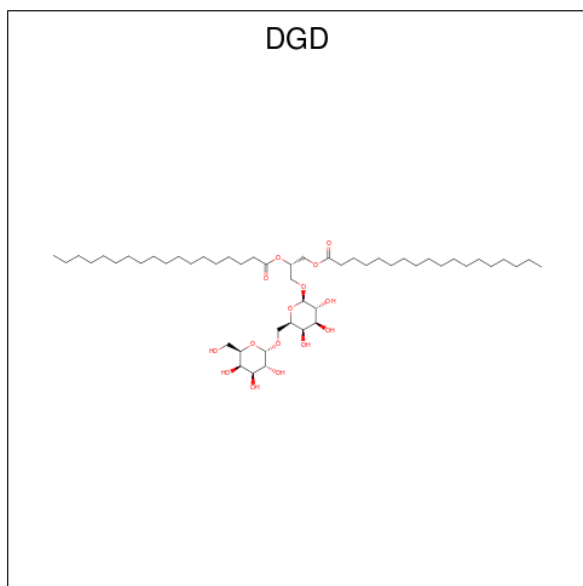
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
20	B	1	Total	Ca	0	0
			1	1		
20	L	1	Total	Ca	0	0
			1	1		

- Molecule 21 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
			Total	C	H	O		
21	L	1	81	24	46	11	0	0

- Molecule 22 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula:  $C_{51}H_{96}O_{15}$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
22	L	1	162	51	96	15	0	0

- Molecule 23 is water.

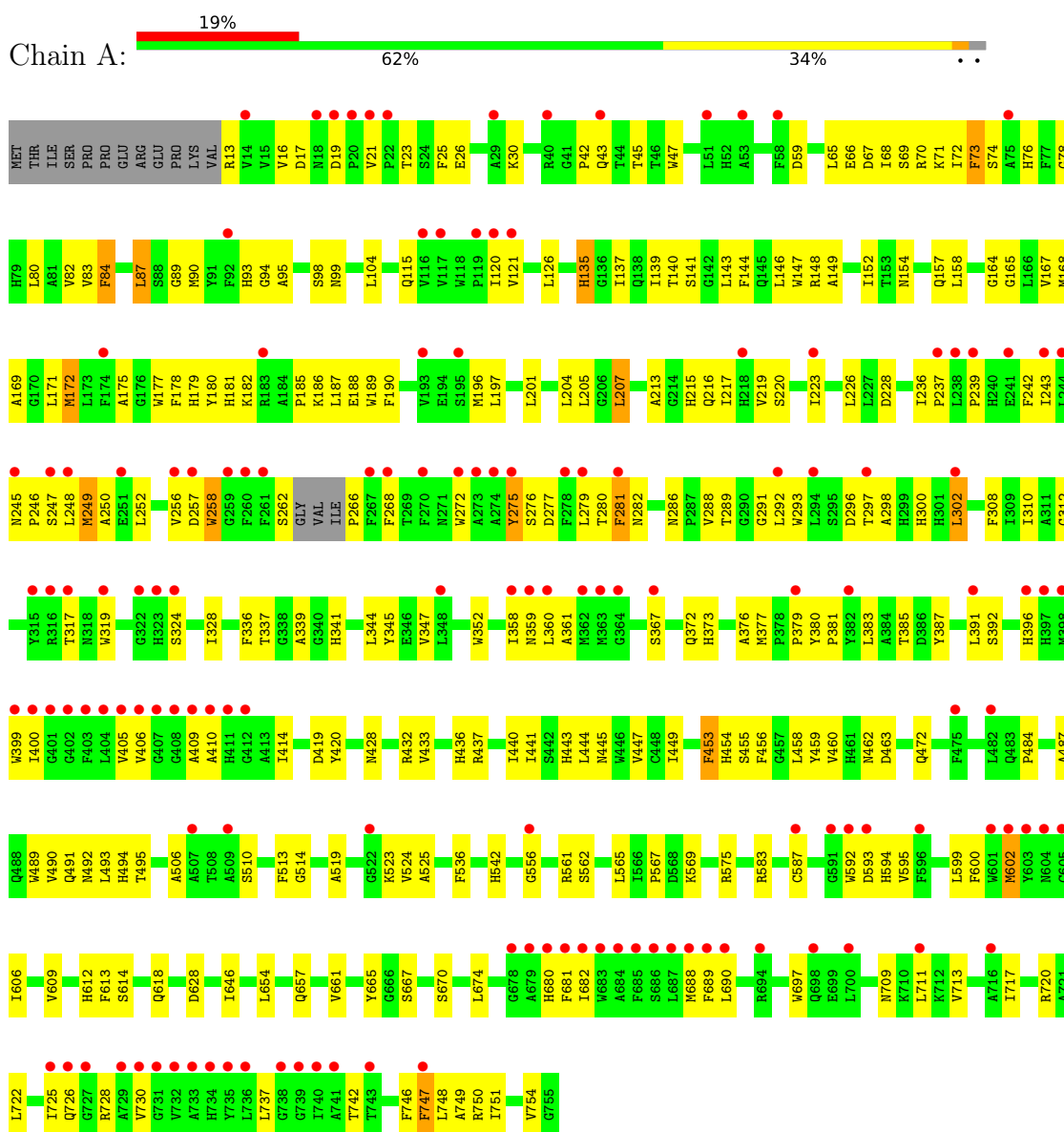


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
23	A	30	Total O 30 30	0	0
23	B	41	Total O 41 41	0	0
23	C	11	Total O 11 11	0	0
23	D	14	Total O 14 14	0	0
23	E	1	Total O 1 1	0	0
23	F	2	Total O 2 2	0	0
23	I	3	Total O 3 3	0	0
23	J	1	Total O 1 1	0	0
23	L	15	Total O 15 15	0	0
23	M	1	Total O 1 1	0	0

### 3 Residue-property plots i

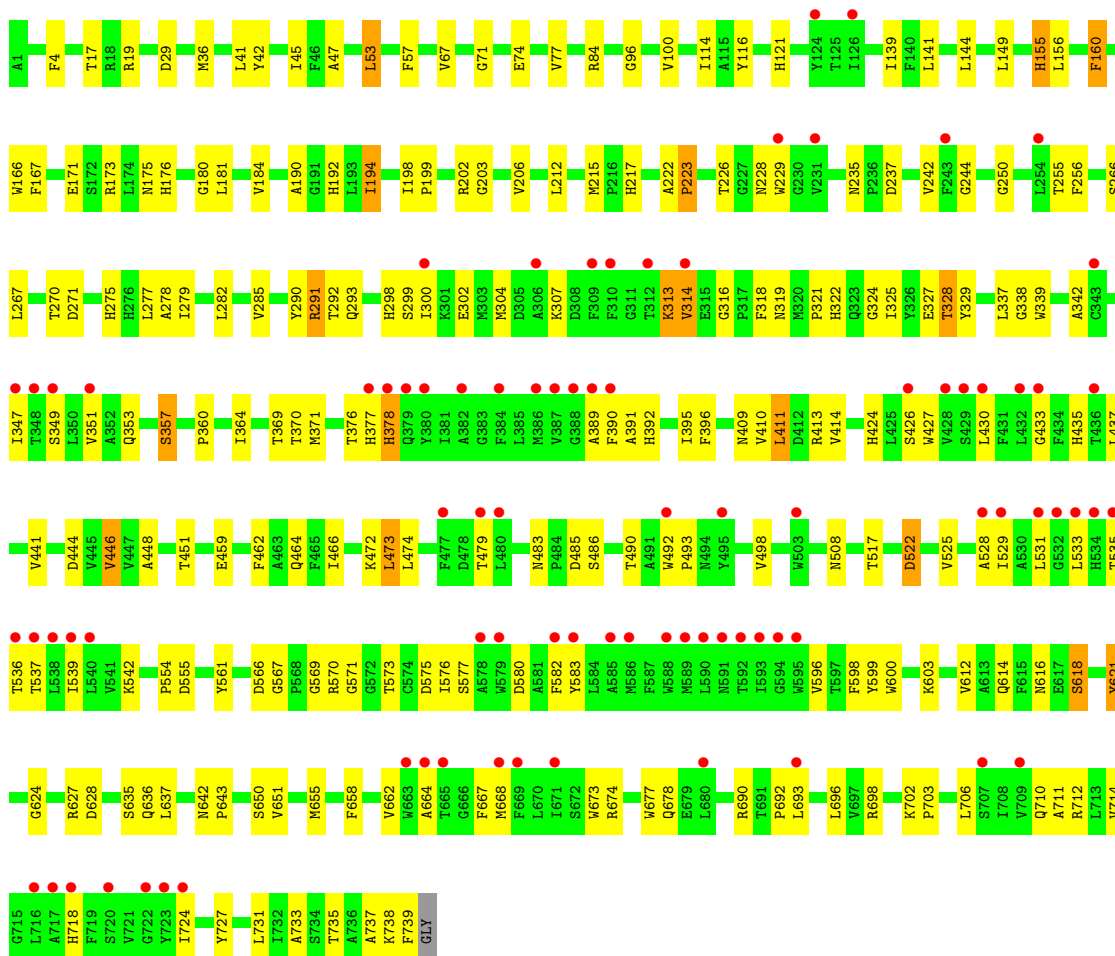
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

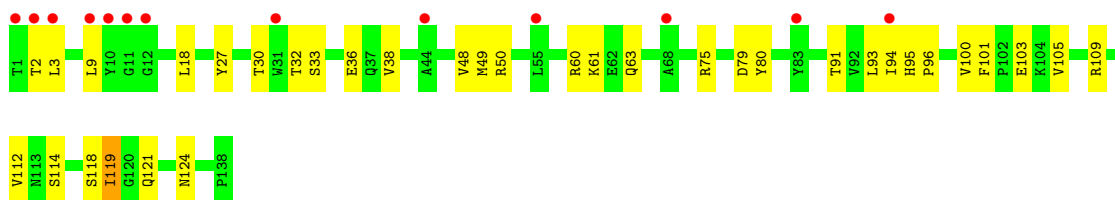
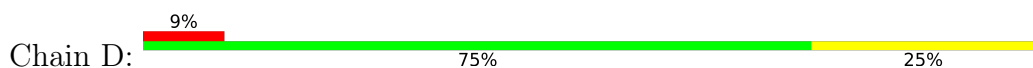




- Molecule 3: Photosystem I iron-sulfur center

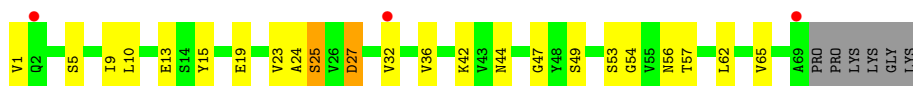


- Molecule 4: Photosystem I reaction center subunit II

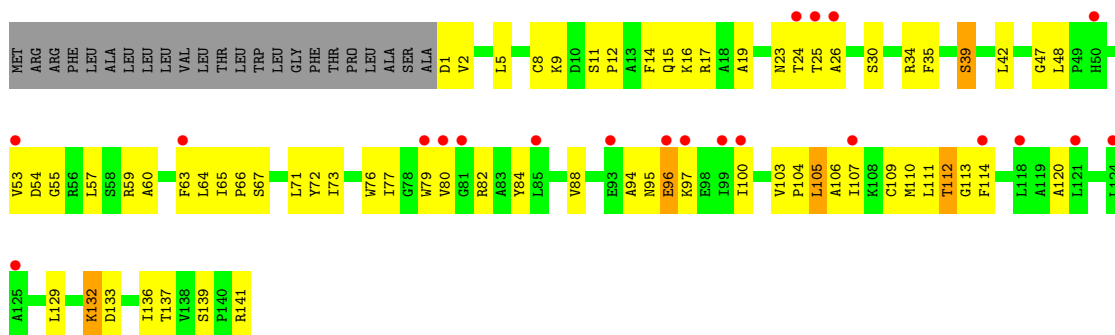
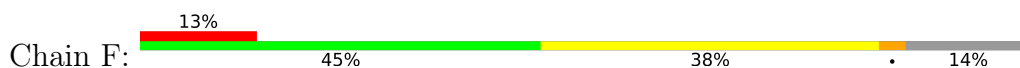


- Molecule 5: Photosystem I reaction center subunit IV





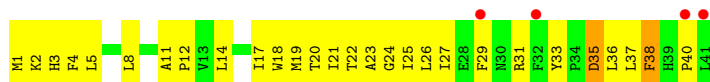
- Molecule 6: Photosystem I reaction center subunit III



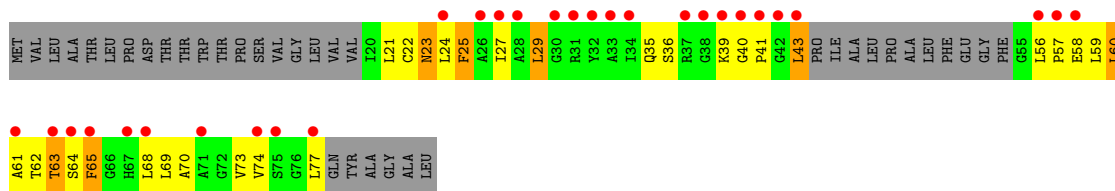
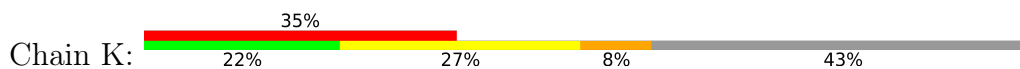
- Molecule 7: Photosystem I reaction center subunit VIII



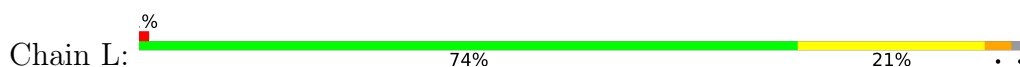
- Molecule 8: Photosystem I reaction center subunit IX



- Molecule 9: Photosystem I reaction center subunit PsaK



- Molecule 10: Photosystem I reaction center subunit XI





- Molecule 11: Photosystem I reaction center subunit XII



- Molecule 12: Photosystem I 4.8K protein



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	285.43Å 285.43Å 166.54Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	56.71 – 2.75 56.71 – 2.75	Depositor EDS
% Data completeness (in resolution range)	95.0 (56.71-2.75) 91.4 (56.71-2.75)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.16 (at 2.77Å)	Xtrriage
Refinement program	PHENIX 1.19.1_4122	Depositor
R, $R_{free}$	0.264 , 0.279 0.266 , 0.281	Depositor DCC
$R_{free}$ test set	2009 reflections (1.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	55.9	Xtrriage
Anisotropy	0.326	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.24 , 61.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	0.035 for h,-h-k,-l	Xtrriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	48896	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	87.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.64% 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: BCR, LMT, CL0, CA, CLA, LHG, PQN, DGD, SF4, LMG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.34	1/5983 (0.0%)	0.58	1/8158 (0.0%)
2	B	0.34	0/6107	0.54	0/8345
3	C	0.34	0/608	0.60	0/824
4	D	0.32	0/1101	0.59	0/1492
5	E	0.31	0/551	0.56	0/750
6	F	0.34	0/1087	0.60	0/1476
7	I	0.34	0/312	0.65	0/425
8	J	0.34	0/350	0.60	0/477
9	K	0.33	0/337	0.74	0/454
10	L	0.37	0/1148	0.59	0/1558
11	M	0.39	0/244	0.63	0/332
12	X	0.38	0/251	0.58	0/342
All	All	0.34	1/18079 (0.0%)	0.58	1/24633 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	258	TRP	CE3-CZ3	-5.22	1.29	1.38

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	249	MET	CA-CB-CG	6.74	124.75	113.30

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts

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	A	5784	5638	5639	287	0
2	B	5889	5618	5649	207	0
3	C	598	576	580	29	0
4	D	1075	1077	1077	28	0
5	E	539	528	528	17	0
6	F	1065	1076	1077	76	0
7	I	301	306	306	15	0
8	J	338	347	347	50	0
9	K	333	354	354	40	0
10	L	1119	1125	1125	28	0
11	M	241	264	264	13	0
12	X	242	217	249	13	0
13	A	65	72	72	3	0
14	A	2628	2615	2615	126	0
14	B	2219	2160	2160	93	0
14	F	45	33	33	8	0
14	I	65	72	72	8	0
14	J	82	58	58	2	0
14	K	86	62	62	1	0
14	L	195	216	216	4	0
14	M	45	33	33	5	0
14	X	45	33	33	2	0
15	A	33	46	46	8	0
15	B	33	46	46	5	0
16	A	200	280	280	16	0
16	B	240	336	336	12	0
16	F	80	112	112	8	0
16	I	120	168	168	8	0
16	J	120	168	168	13	0
16	K	40	56	56	4	0
16	L	40	56	56	2	0
16	M	40	56	56	3	0
17	A	78	107	105	0	0
17	B	55	86	86	1	0
17	I	40	51	50	0	0
18	A	76	100	98	3	0
18	B	23	20	16	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	M	49	74	74	1	0
19	B	8	0	0	0	0
19	C	16	0	0	0	0
20	B	1	0	0	0	0
20	L	1	0	0	0	0
21	L	35	46	46	0	0
22	L	66	96	96	2	0
23	A	30	0	0	6	0
23	B	41	0	0	5	0
23	C	11	0	0	2	0
23	D	14	0	0	1	0
23	E	1	0	0	0	0
23	F	2	0	0	0	0
23	I	3	0	0	2	0
23	J	1	0	0	0	0
23	L	15	0	0	0	0
23	M	1	0	0	0	0
All	All	24512	24384	24444	908	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 19.

All (908) 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)
4:D:32:THR:OG1	4:D:79:ASP:OD2	1.81	0.98
4:D:3:LEU:HD21	4:D:91:THR:HG21	1.47	0.95
2:B:307:LYS:O	2:B:314:VAL:HG23	1.68	0.93
9:K:60:LEU:O	9:K:63:THR:OG1	1.87	0.93
1:A:661:VAL:HG21	1:A:746:PHE:HA	1.51	0.91
1:A:661:VAL:HG22	1:A:749:ALA:HB3	1.51	0.90
6:F:1:ASP:N	6:F:5:LEU:O	2.05	0.89
6:F:76:TRP:CZ3	6:F:114:PHE:N	2.42	0.88
2:B:181:LEU:HD21	14:B:3014:CLA:H43	1.58	0.86
8:J:17:ILE:HD12	8:J:18:TRP:N	1.91	0.86
1:A:120:ILE:HD11	8:J:31:ARG:HB2	1.57	0.84
1:A:336:PHE:O	1:A:432:ARG:NH1	2.11	0.82
1:A:68:ILE:HD12	1:A:69:SER:N	1.94	0.81
1:A:120:ILE:CD1	8:J:31:ARG:HB2	2.10	0.81
2:B:114:ILE:HD11	2:B:116:TYR:CZ	2.15	0.81
1:A:249:MET:HB2	1:A:258:TRP:CH2	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:627:ARG:NH2	2:B:628:ASP:OD2	2.13	0.81
14:I:101:CLA:MG	23:I:201:HOH:O	1.24	0.79
6:F:53:VAL:HG13	6:F:63:PHE:CD1	2.18	0.78
8:J:23:ALA:O	8:J:27:ILE:HD12	1.83	0.78
8:J:21:ILE:O	8:J:25:ILE:HD12	1.84	0.78
14:F:202:CLA:HBC2	8:J:19:MET:HE3	1.64	0.78
2:B:304:MET:HE1	2:B:325:ILE:HD11	1.66	0.77
2:B:318:PHE:HB2	14:B:3024:CLA:HMA1	1.66	0.76
5:E:19:GLU:OE2	5:E:42:LYS:NZ	2.13	0.75
1:A:249:MET:HB2	1:A:258:TRP:CZ3	2.21	0.75
16:A:851:BCR:H362	14:A:856:CLA:C4	2.17	0.75
1:A:65:LEU:HD12	1:A:68:ILE:HD11	1.69	0.74
14:B:3030:CLA:HBB1	14:B:3030:CLA:HMB1	1.70	0.74
2:B:184:VAL:HG21	16:B:3044:BCR:H332	1.69	0.74
2:B:483:ASN:OD1	2:B:486:SER:N	2.21	0.74
4:D:114:SER:OG	23:D:201:HOH:O	2.06	0.74
1:A:489:TRP:O	1:A:493:LEU:HD23	1.87	0.73
1:A:66:GLU:HA	1:A:187:LEU:HD13	1.69	0.73
14:M:102:CLA:H2A	14:M:102:CLA:HED2	1.69	0.73
14:A:802:CLA:OBD	14:B:3003:CLA:HMB3	1.89	0.72
1:A:722:LEU:HD23	1:A:726:GLN:OE1	1.90	0.72
14:A:834:CLA:HMD2	14:A:835:CLA:H143	1.72	0.72
1:A:513:PHE:HE1	14:A:828:CLA:HBC2	1.54	0.71
1:A:68:ILE:HD12	1:A:69:SER:H	1.54	0.71
1:A:205:LEU:CD2	1:A:308:PHE:CE2	2.74	0.70
1:A:177:TRP:HB2	14:A:812:CLA:HMC3	1.72	0.70
2:B:84:ARG:NH2	23:B:3103:HOH:O	2.23	0.70
4:D:9:LEU:HB2	4:D:48:VAL:HG12	1.71	0.70
1:A:454:HIS:O	1:A:458:LEU:HG	1.91	0.70
15:A:846:PQN:H193	16:F:201:BCR:H382	1.72	0.70
14:B:3008:CLA:H192	18:M:101:LHG:H383	1.74	0.70
6:F:76:TRP:HZ3	6:F:114:PHE:HA	1.56	0.70
9:K:60:LEU:O	9:K:63:THR:N	2.17	0.70
1:A:657:GLN:O	23:A:901:HOH:O	2.08	0.70
3:C:28:VAL:HG12	4:D:109:ARG:HB3	1.74	0.70
5:E:62:LEU:HD23	5:E:62:LEU:H	1.56	0.70
2:B:479:THR:HG21	12:X:29:TYR:O	1.92	0.69
1:A:68:ILE:O	1:A:72:ILE:HG13	1.92	0.69
2:B:441:VAL:HG13	14:B:3034:CLA:HMC3	1.73	0.69
1:A:661:VAL:HG23	23:A:901:HOH:O	1.92	0.69
1:A:143:LEU:HD22	1:A:146:LEU:HD22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:LEU:HD22	1:A:146:LEU:CD2	2.22	0.68
14:A:845:CLA:HMC1	14:A:845:CLA:HBC2	1.75	0.68
2:B:459:GLU:OE1	2:B:464:GLN:NE2	2.26	0.68
6:F:76:TRP:CZ3	6:F:113:GLY:C	2.66	0.68
8:J:25:ILE:HD12	8:J:25:ILE:H	1.57	0.68
14:B:3033:CLA:H142	16:F:203:BCR:H333	1.75	0.68
6:F:9:LYS:O	6:F:15:GLN:NE2	2.27	0.67
1:A:205:LEU:HG	1:A:308:PHE:CE2	2.30	0.67
1:A:249:MET:CB	1:A:258:TRP:CH2	2.77	0.67
2:B:116:TYR:HA	2:B:370:THR:HG22	1.76	0.66
9:K:21:LEU:HD12	14:K:101:CLA:C3D	2.26	0.66
2:B:337:LEU:HD23	2:B:392:HIS:CG	2.30	0.66
2:B:636:GLN:OE1	2:B:737:ALA:HB1	1.95	0.66
6:F:1:ASP:OD2	6:F:42:LEU:HD21	1.94	0.66
16:A:851:BCR:H362	14:A:856:CLA:H42	1.78	0.66
6:F:35:PHE:O	6:F:39:SER:OG	2.12	0.65
2:B:319:ASN:OD1	2:B:319:ASN:O	2.14	0.65
5:E:56:ASN:OD1	5:E:57:THR:HG23	1.95	0.65
14:A:822:CLA:OBD	14:A:824:CLA:HMD3	1.96	0.65
1:A:140:THR:HG22	14:A:809:CLA:HMD1	1.79	0.65
1:A:359:ASN:ND2	14:A:806:CLA:OBD	2.29	0.65
2:B:376:THR:HG21	2:B:731:LEU:HD13	1.79	0.65
14:A:829:CLA:HBB1	14:A:829:CLA:HMB1	1.78	0.65
2:B:304:MET:HE3	2:B:322:HIS:HB3	1.79	0.65
1:A:524:VAL:HG12	1:A:525:ALA:N	2.12	0.64
1:A:575:ARG:NH1	14:A:831:CLA:O1D	2.30	0.64
2:B:181:LEU:CD2	14:B:3014:CLA:H43	2.27	0.64
3:C:51:LYS:O	3:C:55:THR:HG23	1.97	0.64
4:D:38:VAL:O	4:D:75:ARG:NH1	2.30	0.64
8:J:1:MET:O	8:J:4:PHE:N	2.30	0.64
1:A:249:MET:O	1:A:252:LEU:N	2.29	0.64
1:A:495:THR:HG21	1:A:514:GLY:HA3	1.78	0.64
1:A:367:SER:OG	1:A:400:ILE:HD11	1.97	0.64
3:C:54:GLU:HG2	3:C:62:LEU:HD13	1.79	0.64
1:A:420:TYR:OH	23:A:902:HOH:O	2.12	0.64
10:L:29:THR:O	10:L:33:ASN:ND2	2.30	0.64
14:A:811:CLA:HBC3	14:A:811:CLA:HHD	1.80	0.63
9:K:65:PHE:CD2	16:K:102:BCR:H402	2.32	0.63
14:A:804:CLA:HED3	15:A:846:PQN:H262	1.81	0.63
10:L:20:PRO:O	10:L:24:SER:OG	2.16	0.63
9:K:65:PHE:HD2	16:K:102:BCR:H402	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:180:GLY:O	2:B:184:VAL:HG12	1.99	0.62
14:A:856:CLA:HBB1	14:A:856:CLA:HMB1	1.81	0.62
2:B:537:THR:HG22	14:B:3026:CLA:HMC2	1.82	0.62
3:C:51:LYS:HD3	3:C:54:GLU:OE2	2.00	0.62
1:A:250:ALA:N	1:A:258:TRP:CZ3	2.67	0.62
1:A:179:HIS:CE1	14:A:811:CLA:NA	2.67	0.62
17:B:3048:LMG:O5	23:B:3101:HOH:O	2.15	0.62
1:A:249:MET:CB	1:A:258:TRP:HH2	2.14	0.61
6:F:8:CYS:HB3	6:F:14:PHE:CD2	2.35	0.61
16:I:105:BCR:H392	16:I:105:BCR:H23C	1.82	0.61
1:A:171:LEU:HD12	1:A:172:MET:N	2.16	0.61
14:A:809:CLA:CHC	14:A:810:CLA:HMD2	2.30	0.61
3:C:9:THR:OG1	3:C:63:SER:OG	2.14	0.61
2:B:176:HIS:CG	14:B:3014:CLA:HMC2	2.35	0.61
14:A:822:CLA:HMB2	14:A:826:CLA:HMA3	1.83	0.61
2:B:300:ILE:O	2:B:304:MET:HG2	1.99	0.61
2:B:567:GLY:O	2:B:573:THR:HG22	2.00	0.61
1:A:256:VAL:HG12	1:A:258:TRP:CD1	2.35	0.61
14:A:828:CLA:HBB1	14:A:828:CLA:HMB1	1.83	0.61
2:B:337:LEU:HD23	2:B:392:HIS:ND1	2.16	0.61
9:K:56:LEU:HD12	9:K:59:LEU:HD23	1.82	0.61
2:B:698:ARG:HG2	2:B:698:ARG:HH11	1.66	0.61
2:B:291:ARG:NH2	2:B:302:GLU:OE1	2.34	0.61
2:B:300:ILE:HD12	2:B:300:ILE:H	1.66	0.61
14:A:820:CLA:HMB1	14:A:820:CLA:HBB1	1.82	0.60
1:A:177:TRP:CE3	1:A:178:PHE:HA	2.35	0.60
2:B:319:ASN:OD1	18:B:3049:LHG:O4	2.19	0.60
2:B:580:ASP:OD1	2:B:712:ARG:NH1	2.34	0.60
14:A:804:CLA:HMA1	14:A:809:CLA:H203	1.83	0.60
1:A:298:ALA:O	1:A:302:LEU:HD23	2.01	0.60
2:B:36:MET:HE2	2:B:41:LEU:HA	1.82	0.60
2:B:325:ILE:HA	2:B:328:THR:HG22	1.84	0.60
1:A:73:PHE:CE1	14:A:814:CLA:C3D	2.84	0.60
14:A:804:CLA:H193	14:A:843:CLA:H18	1.82	0.60
1:A:490:VAL:HA	1:A:493:LEU:HD21	1.84	0.60
2:B:278:ALA:HA	14:B:3017:CLA:HMC3	1.83	0.60
1:A:143:LEU:O	1:A:146:LEU:N	2.34	0.59
14:A:825:CLA:HBB1	14:A:825:CLA:HMB1	1.83	0.59
2:B:662:VAL:HG12	2:B:718:HIS:O	2.02	0.59
14:B:3024:CLA:HAB	14:B:3031:CLA:HMD2	1.83	0.59
2:B:710:GLN:O	2:B:714:VAL:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:119:ILE:HD12	4:D:119:ILE:H	1.66	0.59
12:X:24:PHE:CD1	14:X:1701:CLA:HMA1	2.37	0.59
2:B:190:ALA:O	2:B:194:ILE:HG13	2.02	0.59
14:A:826:CLA:HBB1	14:A:826:CLA:HMB1	1.83	0.59
14:F:202:CLA:HBC2	8:J:19:MET:CE	2.30	0.59
2:B:522:ASP:OD2	2:B:603:LYS:NZ	2.33	0.59
7:I:18:VAL:O	7:I:23:PRO:CD	2.51	0.59
1:A:65:LEU:O	1:A:68:ILE:HD11	2.03	0.59
16:A:851:BCR:H23C	16:A:851:BCR:H403	1.83	0.59
2:B:561:TYR:O	2:B:577:SER:OG	2.20	0.59
10:L:16:HIS:O	10:L:17:LEU:HD23	2.02	0.59
11:M:23:PHE:O	11:M:27:THR:HG23	2.02	0.59
1:A:120:ILE:HD13	16:J:104:BCR:H322	1.84	0.59
14:B:3033:CLA:HBB1	14:B:3033:CLA:HMB1	1.85	0.59
14:B:3035:CLA:HMD2	14:B:3036:CLA:CHC	2.33	0.59
1:A:204:LEU:HD12	14:A:814:CLA:CHB	2.33	0.58
1:A:286:ASN:HB3	1:A:289:THR:OG1	2.01	0.58
1:A:373:HIS:CD2	14:A:828:CLA:NC	2.71	0.58
12:X:9:TYR:HA	12:X:12:ARG:NH1	2.18	0.58
1:A:90:MET:HE1	14:A:809:CLA:H2A	1.85	0.58
2:B:47:ALA:HB2	2:B:156:LEU:HG	1.85	0.58
16:A:851:BCR:H372	2:B:441:VAL:HG11	1.84	0.58
1:A:65:LEU:HD12	1:A:65:LEU:O	2.03	0.58
1:A:600:PHE:HZ	1:A:690:LEU:HD11	1.68	0.58
14:A:825:CLA:HAB	14:A:832:CLA:HMD2	1.85	0.58
2:B:529:ILE:HD13	2:B:596:VAL:HG22	1.85	0.58
6:F:76:TRP:HE1	14:F:202:CLA:CAD	2.16	0.58
6:F:139:SER:O	6:F:141:ARG:NH1	2.36	0.58
8:J:21:ILE:O	8:J:24:GLY:N	2.37	0.58
1:A:189:TRP:HZ3	1:A:190:PHE:CE1	2.20	0.58
14:A:813:CLA:HMB3	14:A:821:CLA:C3D	2.33	0.58
16:F:201:BCR:H333	8:J:26:LEU:HD11	1.84	0.58
1:A:154:ASN:OD1	1:A:157:GLN:NE2	2.36	0.57
6:F:110:MET:HG2	14:F:202:CLA:OBD	2.04	0.57
1:A:205:LEU:HG	1:A:308:PHE:CZ	2.39	0.57
2:B:202:ARG:NE	2:B:237:ASP:OD1	2.38	0.57
4:D:3:LEU:CD2	4:D:91:THR:HG21	2.26	0.57
10:L:35:PRO:HG3	14:L:204:CLA:HED2	1.86	0.57
14:I:101:CLA:HHD	14:I:101:CLA:HBC3	1.84	0.57
1:A:256:VAL:HB	1:A:258:TRP:HE1	1.68	0.57
8:J:27:ILE:HD12	8:J:27:ILE:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:TRP:HZ3	14:A:813:CLA:HMA1	1.70	0.57
2:B:291:ARG:HE	2:B:299:SER:HB3	1.69	0.57
2:B:17:THR:HG23	2:B:702:LYS:O	2.04	0.57
15:A:846:PQN:C19	16:F:201:BCR:H382	2.34	0.57
6:F:132:LYS:HG2	6:F:133:ASP:H	1.69	0.57
1:A:245:ASN:ND2	1:A:247:SER:OG	2.38	0.56
16:I:105:BCR:H24C	10:L:93:LEU:HD21	1.87	0.56
1:A:143:LEU:O	1:A:146:LEU:HB3	2.05	0.56
6:F:96:GLU:OE2	6:F:100:ILE:HD13	2.05	0.56
1:A:71:LYS:NZ	23:A:904:HOH:O	2.37	0.56
1:A:282:ASN:O	1:A:506:ALA:HB3	2.05	0.56
1:A:444:LEU:O	1:A:447:VAL:HG12	2.05	0.56
2:B:176:HIS:CE1	14:B:3013:CLA:NA	2.74	0.56
2:B:313:LYS:O	2:B:313:LYS:HG3	2.06	0.56
14:A:817:CLA:HBC3	14:A:817:CLA:HHD	1.86	0.56
8:J:21:ILE:HD12	8:J:22:THR:N	2.21	0.56
5:E:53:SER:OG	5:E:54:GLY:N	2.39	0.56
5:E:1:VAL:N	5:E:5:SER:OG	2.39	0.56
14:B:3027:CLA:HMB1	14:B:3027:CLA:HBB1	1.88	0.56
14:B:3031:CLA:H3A	14:B:3032:CLA:OBD	2.06	0.56
16:I:103:BCR:H331	16:I:103:BCR:C8	2.36	0.56
2:B:304:MET:CE	2:B:325:ILE:HD11	2.36	0.55
6:F:73:ILE:O	6:F:77:ILE:HG12	2.06	0.55
6:F:76:TRP:HZ3	6:F:114:PHE:CA	2.19	0.55
16:J:103:BCR:H321	16:J:103:BCR:HC8	1.88	0.55
1:A:115:GLN:HE22	14:A:809:CLA:C1B	2.19	0.55
4:D:100:VAL:HG23	4:D:109:ARG:NH2	2.20	0.55
8:J:22:THR:O	8:J:26:LEU:HD23	2.07	0.55
1:A:628:ASP:N	1:A:628:ASP:OD1	2.38	0.55
2:B:121:HIS:HB2	2:B:364:ILE:HD13	1.87	0.55
2:B:614:GLN:O	2:B:618:SER:OG	2.23	0.55
1:A:750:ARG:O	1:A:754:VAL:HG22	2.07	0.55
14:A:810:CLA:HMB1	14:A:810:CLA:HBB1	1.89	0.55
1:A:282:ASN:O	1:A:506:ALA:N	2.36	0.55
14:B:3038:CLA:HMB1	14:B:3038:CLA:HBB1	1.89	0.55
1:A:168:MET:O	1:A:171:LEU:HG	2.06	0.55
2:B:536:THR:HG21	14:B:3026:CLA:HBC3	1.88	0.55
14:B:3009:CLA:C1A	14:B:3009:CLA:CGA	2.85	0.55
6:F:53:VAL:HG22	6:F:63:PHE:HB2	1.87	0.55
6:F:111:LEU:N	6:F:111:LEU:HD12	2.22	0.55
8:J:23:ALA:C	8:J:27:ILE:HD12	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:L:207:BCR:H311	16:L:207:BCR:H343	1.88	0.55
1:A:141:SER:HB2	1:A:143:LEU:HG	1.88	0.55
1:A:472:GLN:OE1	1:A:472:GLN:N	2.35	0.54
12:X:24:PHE:CE1	14:X:1701:CLA:HMA1	2.42	0.54
1:A:95:ALA:HA	1:A:158:LEU:HD13	1.89	0.54
6:F:76:TRP:CE3	6:F:113:GLY:C	2.80	0.54
14:A:822:CLA:HMB1	14:A:822:CLA:HBB1	1.89	0.54
5:E:24:ALA:O	5:E:25:SER:O	2.26	0.54
11:M:27:THR:OG1	14:M:102:CLA:HED3	2.06	0.54
8:J:22:THR:HA	8:J:25:ILE:HD13	1.89	0.54
2:B:255:THR:OG1	2:B:271:ASP:OD1	2.25	0.54
1:A:494:HIS:HB3	1:A:513:PHE:HD2	1.73	0.54
5:E:27:ASP:OD2	5:E:32:VAL:HG21	2.08	0.54
1:A:296:ASP:HB2	14:A:819:CLA:HMA1	1.90	0.54
2:B:96:GLY:O	2:B:100:VAL:HG23	2.07	0.54
2:B:279:ILE:HD11	14:B:3018:CLA:C3C	2.37	0.54
1:A:682:ILE:HD13	1:A:737:LEU:HD23	1.89	0.54
2:B:175:ASN:ND2	2:B:290:TYR:O	2.41	0.54
2:B:724:ILE:HG23	14:B:3028:CLA:HAB	1.89	0.54
1:A:185:PRO:HB2	1:A:189:TRP:CE3	2.43	0.54
1:A:459:TYR:HB3	1:A:646:ILE:HD11	1.90	0.54
1:A:487:ALA:O	1:A:491:GLN:HG2	2.07	0.54
1:A:565:LEU:HD13	2:B:678:GLN:HG2	1.89	0.53
2:B:433:GLY:N	2:B:531:LEU:HD13	2.23	0.53
6:F:54:ASP:OD1	6:F:55:GLY:N	2.41	0.53
7:I:18:VAL:O	7:I:23:PRO:HD3	2.08	0.53
16:I:102:BCR:H382	16:I:102:BCR:H23C	1.90	0.53
14:A:841:CLA:H93	15:A:846:PQN:H293	1.88	0.53
6:F:96:GLU:O	6:F:100:ILE:HD12	2.08	0.53
1:A:72:ILE:HD12	1:A:352:TRP:CE2	2.43	0.53
1:A:219:VAL:HG13	1:A:239:PRO:HB3	1.90	0.53
14:B:3039:CLA:HMB2	14:B:3040:CLA:C2D	2.38	0.53
5:E:56:ASN:OD1	5:E:57:THR:N	2.40	0.53
9:K:65:PHE:CE1	9:K:69:LEU:HD11	2.44	0.53
14:B:3017:CLA:HMB1	14:B:3017:CLA:HBB1	1.91	0.53
8:J:17:ILE:HA	8:J:20:THR:HG22	1.90	0.53
1:A:120:ILE:HD12	8:J:31:ARG:HB2	1.90	0.53
2:B:149:LEU:HD22	11:M:22:ALA:HA	1.89	0.53
1:A:256:VAL:HB	1:A:258:TRP:NE1	2.24	0.53
2:B:554:PRO:HD2	3:C:61:PHE:CZ	2.44	0.53
1:A:376:ALA:O	1:A:510:SER:OG	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:A:838:CLA:HBB1	14:A:838:CLA:HMB1	1.91	0.53
14:A:839:CLA:HMB2	14:A:840:CLA:C3D	2.39	0.53
6:F:23:ASN:OD1	6:F:30:SER:OG	2.10	0.53
1:A:201:LEU:O	1:A:205:LEU:HB3	2.09	0.53
1:A:243:ILE:HD12	14:A:817:CLA:HBC2	1.91	0.53
1:A:286:ASN:OD1	1:A:288:VAL:HG12	2.09	0.53
2:B:329:TYR:CZ	14:B:3025:CLA:NC	2.77	0.53
14:A:820:CLA:O1A	14:A:830:CLA:HMD1	2.08	0.53
2:B:531:LEU:O	2:B:535:THR:HG22	2.09	0.53
14:B:3034:CLA:H2A	14:B:3034:CLA:HED2	1.91	0.53
14:A:803:CLA:HMD2	2:B:539:ILE:HD13	1.90	0.53
11:M:14:ILE:O	11:M:18:PRO:HD2	2.08	0.52
1:A:490:VAL:HA	1:A:493:LEU:CD2	2.39	0.52
2:B:637:LEU:HD13	2:B:733:ALA:CB	2.39	0.52
1:A:21:VAL:HG11	1:A:181:HIS:HA	1.90	0.52
10:L:47:GLY:O	10:L:124:PHE:HA	2.10	0.52
1:A:726:GLN:HG3	18:A:853:LHG:C8	2.40	0.52
14:A:844:CLA:HHC	14:A:844:CLA:HBB1	1.91	0.52
7:I:22:MET:N	7:I:23:PRO:HD2	2.25	0.52
6:F:16:LYS:N	6:F:16:LYS:HE2	2.25	0.52
6:F:64:LEU:O	6:F:67:SER:OG	2.26	0.52
2:B:390:PHE:CE1	16:B:3046:BCR:H373	2.44	0.52
3:C:57:CYS:SG	3:C:59:THR:OG1	2.67	0.52
6:F:76:TRP:CZ3	6:F:114:PHE:CA	2.92	0.52
1:A:175:ALA:HB2	14:A:811:CLA:HBC2	1.92	0.52
1:A:722:LEU:HD12	15:A:846:PQN:O4	2.10	0.52
7:I:17:VAL:HG12	7:I:18:VAL:N	2.24	0.52
9:K:60:LEU:C	9:K:63:THR:HG1	1.99	0.52
1:A:140:THR:HG21	1:A:748:LEU:HD11	1.92	0.52
2:B:664:ALA:O	2:B:667:PHE:HB2	2.09	0.52
14:A:841:CLA:O1A	2:B:427:TRP:HD1	1.93	0.51
7:I:18:VAL:O	7:I:23:PRO:HD2	2.10	0.51
11:M:24:ARG:NH1	14:M:102:CLA:HMA1	2.25	0.51
14:A:810:CLA:HAB	14:B:3034:CLA:HMD2	1.92	0.51
2:B:668:MET:HB2	14:B:3004:CLA:C1C	2.41	0.51
14:A:831:CLA:HMB1	14:A:831:CLA:HBB1	1.92	0.51
9:K:58:GLU:HA	9:K:60:LEU:HD22	1.93	0.51
8:J:23:ALA:O	8:J:26:LEU:N	2.42	0.51
1:A:654:LEU:HD22	13:A:801:CL0:H26	1.93	0.51
2:B:690:ARG:HH21	4:D:18:LEU:HD23	1.76	0.51
6:F:80:VAL:HG21	6:F:110:MET:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:HIS:CB	2:B:364:ILE:HD13	2.41	0.51
2:B:255:THR:HG23	2:B:270:THR:HB	1.93	0.51
9:K:41:PRO:HD2	9:K:56:LEU:HD22	1.91	0.51
9:K:58:GLU:HB2	9:K:60:LEU:HD22	1.93	0.51
2:B:474:LEU:H	2:B:474:LEU:HD22	1.76	0.51
8:J:35:ASP:OD1	8:J:35:ASP:N	2.42	0.51
1:A:246:PRO:O	1:A:258:TRP:CE3	2.64	0.51
14:A:830:CLA:HMB1	14:A:830:CLA:HBB1	1.92	0.51
7:I:22:MET:HG3	7:I:23:PRO:HD3	1.93	0.51
1:A:67:ASP:OD1	1:A:71:LYS:CE	2.59	0.51
1:A:360:LEU:HD23	14:A:806:CLA:HED1	1.93	0.51
2:B:446:VAL:HG22	2:B:451:THR:HG1	1.75	0.51
6:F:53:VAL:HG13	6:F:63:PHE:HD1	1.69	0.51
6:F:105:LEU:HD12	6:F:106:ALA:N	2.26	0.51
1:A:66:GLU:OE2	1:A:70:ARG:NH2	2.44	0.50
1:A:70:ARG:NH1	1:A:185:PRO:O	2.45	0.50
1:A:396:HIS:HE1	14:A:829:CLA:ND	2.07	0.50
1:A:575:ARG:HD2	1:A:725:ILE:HG21	1.93	0.50
8:J:23:ALA:C	8:J:27:ILE:CD1	2.79	0.50
2:B:275:HIS:HB2	14:B:3018:CLA:CHB	2.41	0.50
4:D:118:SER:OG	4:D:121:GLN:OE1	2.27	0.50
1:A:280:THR:HG22	1:A:281:PHE:N	2.27	0.50
1:A:437:ARG:HH22	1:A:562:SER:HB2	1.76	0.50
2:B:304:MET:CE	2:B:322:HIS:HB3	2.41	0.50
2:B:569:GLY:HA3	3:C:55:THR:HG22	1.92	0.50
5:E:15:TYR:CD2	5:E:44:ASN:HA	2.46	0.50
10:L:33:ASN:O	10:L:38:ARG:HD3	2.10	0.50
4:D:2:THR:HB	4:D:3:LEU:HD22	1.93	0.50
6:F:47:GLY:O	6:F:48:LEU:HD23	2.11	0.50
1:A:361:ALA:HB1	16:A:850:BCR:H343	1.92	0.50
1:A:612:HIS:ND1	14:A:838:CLA:HMC2	2.27	0.50
14:A:841:CLA:C9	14:A:841:CLA:HMC2	2.42	0.50
6:F:55:GLY:HA2	12:X:31:PHE:CZ	2.47	0.50
1:A:216:GLN:HE22	1:A:297:THR:HG22	1.76	0.50
3:C:40:SER:OG	4:D:112:VAL:HG12	2.11	0.50
6:F:103:VAL:HG22	6:F:107:ILE:HD12	1.92	0.50
8:J:36:LEU:HD11	16:J:105:BCR:H392	1.94	0.50
1:A:205:LEU:HD21	1:A:308:PHE:CE2	2.46	0.50
4:D:60:ARG:HB2	4:D:63:GLN:HG3	1.94	0.50
6:F:16:LYS:O	6:F:19:ALA:HB3	2.12	0.50
4:D:2:THR:HG22	4:D:3:LEU:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:56:TYR:HB2	10:L:131:SER:HB2	1.94	0.50
1:A:344:LEU:O	1:A:347:VAL:HG22	2.12	0.49
2:B:472:LYS:NZ	2:B:517:THR:OG1	2.45	0.49
2:B:473:LEU:HD12	2:B:508:ASN:OD1	2.12	0.49
7:I:17:VAL:O	7:I:18:VAL:O	2.30	0.49
1:A:216:GLN:HA	1:A:220:SER:H	1.77	0.49
1:A:19:ASP:HB2	1:A:182:LYS:HD2	1.93	0.49
2:B:277:LEU:C	2:B:277:LEU:HD23	2.32	0.49
6:F:133:ASP:HA	6:F:136:ILE:HD11	1.94	0.49
10:L:41:LEU:HD13	10:L:45:LEU:HD23	1.95	0.49
1:A:201:LEU:O	1:A:201:LEU:HD13	2.11	0.49
1:A:592:TRP:O	1:A:595:VAL:HG22	2.12	0.49
2:B:17:THR:CG2	2:B:703:PRO:HA	2.42	0.49
2:B:566:ASP:H	2:B:573:THR:HG23	1.77	0.49
14:B:3023:CLA:HBB1	14:B:3023:CLA:HMB1	1.95	0.49
1:A:324:SER:O	1:A:328:ILE:HG13	2.12	0.49
2:B:353:GLN:O	2:B:357:SER:OG	2.29	0.49
8:J:2:LYS:HA	8:J:5:LEU:HD23	1.93	0.49
1:A:94:GLY:O	1:A:98:SER:HB3	2.11	0.49
1:A:688:MET:HB2	14:A:803:CLA:C1C	2.43	0.49
14:I:101:CLA:HHC	14:I:101:CLA:HBB1	1.95	0.49
4:D:101:PHE:HB3	4:D:103:GLU:OE1	2.12	0.49
10:L:152:LEU:HD12	10:L:152:LEU:O	2.12	0.49
1:A:205:LEU:CG	1:A:308:PHE:CE2	2.93	0.49
1:A:207:LEU:HD12	16:A:847:BCR:H361	1.95	0.49
1:A:250:ALA:N	1:A:258:TRP:HZ3	2.09	0.49
1:A:722:LEU:HD12	15:A:846:PQN:C4	2.42	0.49
2:B:637:LEU:HD13	2:B:733:ALA:HB3	1.95	0.49
14:B:3009:CLA:HMC3	14:B:3010:CLA:C3D	2.43	0.49
6:F:14:PHE:CE1	6:F:35:PHE:HD2	2.31	0.49
9:K:40:GLY:N	9:K:41:PRO:CD	2.76	0.49
1:A:207:LEU:CD1	16:A:847:BCR:H361	2.43	0.49
5:E:15:TYR:CD2	5:E:44:ASN:HB2	2.47	0.49
1:A:177:TRP:CE3	1:A:177:TRP:C	2.86	0.49
1:A:215:HIS:O	1:A:219:VAL:N	2.46	0.49
1:A:293:TRP:HB2	1:A:296:ASP:OD2	2.13	0.49
1:A:149:ALA:O	1:A:220:SER:OG	2.31	0.48
2:B:184:VAL:CG2	16:B:3044:BCR:H332	2.39	0.48
2:B:525:VAL:O	2:B:529:ILE:HG13	2.13	0.48
6:F:12:PRO:O	6:F:16:LYS:HG2	2.12	0.48
9:K:65:PHE:HE2	16:K:102:BCR:H272	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:56:ASN:OD1	5:E:57:THR:CG2	2.61	0.48
1:A:654:LEU:HD22	13:A:801:CLO:CMD	2.43	0.48
2:B:19:ARG:NH2	7:I:34:ILE:O	2.46	0.48
2:B:282:LEU:O	2:B:285:VAL:HG12	2.13	0.48
2:B:342:ALA:HB2	16:B:3046:BCR:H372	1.96	0.48
2:B:462:PHE:O	2:B:466:ILE:HG13	2.13	0.48
1:A:189:TRP:CZ3	1:A:190:PHE:CE1	3.01	0.48
2:B:612:VAL:O	2:B:616:ASN:OD1	2.31	0.48
9:K:24:LEU:HD13	9:K:69:LEU:HB3	1.95	0.48
1:A:220:SER:HA	1:A:223:ILE:HG22	1.96	0.48
1:A:245:ASN:HB3	1:A:248:LEU:HD12	1.96	0.48
14:B:3034:CLA:H43	16:J:105:BCR:H361	1.96	0.48
1:A:249:MET:C	1:A:258:TRP:CZ3	2.86	0.48
1:A:383:LEU:HD23	1:A:383:LEU:H	1.78	0.48
1:A:711:LEU:HD11	14:B:3032:CLA:H3A	1.96	0.48
14:A:833:CLA:HMB1	14:A:833:CLA:HBB1	1.96	0.48
7:I:17:VAL:O	7:I:18:VAL:C	2.52	0.48
8:J:2:LYS:HD2	8:J:2:LYS:O	2.14	0.48
9:K:22:CYS:HA	9:K:25:PHE:HB2	1.95	0.48
14:A:802:CLA:HBB1	14:A:802:CLA:HMB1	1.94	0.48
2:B:483:ASN:OD1	2:B:485:ASP:N	2.44	0.48
6:F:76:TRP:NE1	14:F:202:CLA:HBD	2.29	0.48
6:F:105:LEU:HD12	6:F:106:ALA:H	1.78	0.48
1:A:104:LEU:HD12	1:A:104:LEU:O	2.13	0.48
2:B:57:PHE:CD2	2:B:144:LEU:HB3	2.48	0.48
2:B:121:HIS:CG	2:B:364:ILE:CD1	2.96	0.48
4:D:95:HIS:HB3	4:D:96:PRO:CD	2.44	0.48
1:A:26:GLU:OE2	1:A:30:LYS:NZ	2.47	0.48
1:A:213:ALA:O	1:A:217:ILE:HG23	2.14	0.48
14:A:820:CLA:C2D	14:A:830:CLA:H41	2.44	0.48
14:A:829:CLA:H193	16:J:103:BCR:C14	2.44	0.48
6:F:96:GLU:OE2	6:F:100:ILE:CD1	2.61	0.48
11:M:12:LEU:HB3	16:M:103:BCR:H21C	1.96	0.48
1:A:76:HIS:CE1	14:A:806:CLA:ND	2.82	0.48
1:A:279:LEU:HD12	14:A:818:CLA:HMA1	1.96	0.48
1:A:583:ARG:HA	3:C:76:MET:HA	1.95	0.48
2:B:325:ILE:HA	2:B:328:THR:CG2	2.43	0.48
2:B:430:LEU:HD21	16:F:201:BCR:C40	2.43	0.48
6:F:76:TRP:CH2	6:F:114:PHE:CD1	3.02	0.48
1:A:78:GLY:O	1:A:82:VAL:HG23	2.14	0.47
1:A:120:ILE:HD11	8:J:31:ARG:CB	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:MET:HB3	1:A:258:TRP:HH2	1.77	0.47
5:E:23:VAL:HG13	5:E:36:VAL:HG23	1.96	0.47
6:F:25:THR:OG1	6:F:26:ALA:N	2.46	0.47
10:L:54:HIS:HA	10:L:57:PHE:CE2	2.49	0.47
1:A:196:MET:HB2	14:A:814:CLA:HBC2	1.96	0.47
1:A:337:THR:HG22	14:A:832:CLA:OBD	2.14	0.47
14:B:3018:CLA:HMB1	14:B:3018:CLA:HBB1	1.97	0.47
11:M:24:ARG:HH11	14:M:102:CLA:HMA1	1.77	0.47
1:A:152:ILE:HD13	14:A:815:CLA:O1D	2.14	0.47
1:A:689:PHE:CD2	1:A:730:VAL:HG11	2.50	0.47
14:A:827:CLA:HBB1	14:A:827:CLA:HMB1	1.96	0.47
2:B:42:TYR:CD2	2:B:167:PHE:HB3	2.48	0.47
9:K:74:VAL:O	9:K:77:LEU:HD21	2.15	0.47
1:A:201:LEU:CD1	1:A:308:PHE:O	2.63	0.47
1:A:352:TRP:CD1	14:A:826:CLA:H202	2.49	0.47
6:F:109:CYS:O	6:F:112:THR:HG22	2.15	0.47
1:A:237:PRO:HG2	1:A:242:PHE:CZ	2.49	0.47
13:A:801:CL0:H13	14:A:856:CLA:OBD	2.14	0.47
14:B:3030:CLA:H2A	14:B:3030:CLA:O2D	2.15	0.47
9:K:43:LEU:HD13	9:K:57:PRO:HG3	1.97	0.47
1:A:120:ILE:HG23	1:A:121:VAL:HG22	1.97	0.47
1:A:379:PRO:HB2	14:A:820:CLA:HAA2	1.97	0.47
1:A:524:VAL:CG1	1:A:525:ALA:N	2.76	0.47
1:A:670:SER:HB2	2:B:448:ALA:HB1	1.96	0.47
14:B:3028:CLA:H141	14:B:3030:CLA:H152	1.97	0.47
10:L:106:SER:OG	10:L:107:SER:N	2.48	0.47
1:A:139:ILE:C	1:A:139:ILE:HD12	2.35	0.47
1:A:148:ARG:NH2	1:A:228:ASP:OD1	2.42	0.47
1:A:164:GLY:O	1:A:167:VAL:HG12	2.14	0.47
1:A:493:LEU:HD23	1:A:493:LEU:H	1.79	0.47
1:A:747:PHE:O	1:A:751:ILE:HG22	2.15	0.47
14:A:817:CLA:HBB2	16:A:847:BCR:H352	1.96	0.47
2:B:222:ALA:N	2:B:223:PRO:CD	2.78	0.47
2:B:555:ASP:OD2	3:C:65:ARG:NH1	2.48	0.47
22:L:206:DGD:O6E	22:L:206:DGD:O4D	2.30	0.47
1:A:681:PHE:CD2	16:A:851:BCR:H363	2.50	0.47
2:B:437:LEU:O	2:B:441:VAL:HG12	2.14	0.47
1:A:593:ASP:OD1	1:A:728:ARG:NH1	2.48	0.47
2:B:155:HIS:HE1	14:B:3012:CLA:ND	2.10	0.47
2:B:435:HIS:CG	16:J:105:BCR:H333	2.50	0.47
2:B:599:TYR:CZ	14:B:3038:CLA:HBC2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:655:MET:HA	2:B:658:PHE:HB3	1.97	0.47
3:C:25:LEU:HD23	3:C:41:SER:HA	1.96	0.47
1:A:217:ILE:HG22	1:A:298:ALA:HB1	1.97	0.47
1:A:286:ASN:OD1	1:A:286:ASN:C	2.53	0.47
1:A:286:ASN:HA	1:A:293:TRP:CZ2	2.50	0.47
2:B:395:ILE:HD13	14:B:3030:CLA:HED3	1.96	0.47
6:F:17:ARG:NE	6:F:48:LEU:HD21	2.30	0.47
1:A:262:SER:HA	1:A:266:PRO:HG3	1.98	0.46
1:A:280:THR:HG21	1:A:282:ASN:OD1	2.15	0.46
1:A:399:TRP:CE3	1:A:606:ILE:HG21	2.51	0.46
1:A:726:GLN:HG3	18:A:853:LHG:C7	2.45	0.46
2:B:674:ARG:N	23:B:3108:HOH:O	2.45	0.46
10:L:110:PRO:O	10:L:113:THR:HG22	2.15	0.46
2:B:618:SER:HA	2:B:621:TYR:CE1	2.50	0.46
6:F:88:VAL:HG12	6:F:94:ALA:HA	1.97	0.46
10:L:52:MET:HE2	14:L:203:CLA:H2A	1.98	0.46
12:X:12:ARG:HG2	12:X:12:ARG:HH11	1.79	0.46
1:A:84:PHE:O	1:A:87:LEU:HD12	2.15	0.46
1:A:300:HIS:HB2	14:A:819:CLA:C1B	2.45	0.46
14:A:814:CLA:OBD	14:A:826:CLA:H92	2.15	0.46
1:A:358:ILE:HG22	16:A:849:BCR:HC7	1.98	0.46
1:A:556:GLY:CA	1:A:594:HIS:ND1	2.78	0.46
14:A:810:CLA:H92	14:A:810:CLA:C3	2.46	0.46
14:A:811:CLA:O1A	14:A:813:CLA:H42	2.15	0.46
2:B:466:ILE:HD11	14:B:3038:CLA:H12	1.98	0.46
8:J:38:PHE:O	8:J:40:PRO:HD3	2.15	0.46
14:J:102:CLA:HBB1	14:J:102:CLA:HMB1	1.97	0.46
2:B:29:ASP:OD1	23:B:3102:HOH:O	2.21	0.46
2:B:36:MET:CE	2:B:41:LEU:N	2.78	0.46
14:B:3008:CLA:CGD	7:I:11:PRO:HG3	2.46	0.46
14:B:3010:CLA:HMB3	14:B:3011:CLA:CHC	2.46	0.46
12:X:29:TYR:CD1	12:X:34:LEU:HB2	2.51	0.46
1:A:25:PHE:CE1	8:J:4:PHE:HD2	2.33	0.46
1:A:26:GLU:HG2	1:A:30:LYS:NZ	2.30	0.46
1:A:74:SER:HB3	1:A:180:TYR:HB2	1.97	0.46
1:A:178:PHE:O	1:A:182:LYS:O	2.34	0.46
1:A:201:LEU:HD13	1:A:201:LEU:C	2.36	0.46
1:A:391:LEU:HD12	1:A:613:PHE:HE1	1.81	0.46
16:A:849:BCR:H333	16:A:850:BCR:H333	1.96	0.46
2:B:555:ASP:OD1	3:C:65:ARG:NH1	2.46	0.46
3:C:12:GLY:O	3:C:14:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:111:LEU:HD12	6:F:111:LEU:H	1.80	0.46
8:J:36:LEU:HD11	16:J:105:BCR:C39	2.46	0.46
1:A:205:LEU:HD12	14:A:820:CLA:HMC1	1.97	0.46
14:A:804:CLA:H193	14:A:843:CLA:C18	2.46	0.46
2:B:215:MET:HE2	2:B:217:HIS:O	2.15	0.46
2:B:325:ILE:HD12	14:B:3024:CLA:HMD3	1.98	0.46
3:C:72:THR:N	3:C:75:SER:OG	2.48	0.46
1:A:602:MET:HB2	14:A:827:CLA:HBC1	1.98	0.46
6:F:76:TRP:CZ3	6:F:114:PHE:HA	2.44	0.46
10:L:143:LEU:H	10:L:143:LEU:HD22	1.81	0.46
1:A:177:TRP:HE3	1:A:178:PHE:N	2.14	0.46
1:A:405:VAL:HG13	16:A:850:BCR:H342	1.98	0.46
1:A:524:VAL:HG12	1:A:525:ALA:H	1.79	0.46
14:B:3005:CLA:HHC	14:B:3007:CLA:OBD	2.16	0.46
6:F:80:VAL:CG2	6:F:110:MET:HA	2.45	0.46
1:A:172:MET:HA	1:A:175:ALA:HB3	1.96	0.45
1:A:177:TRP:CE3	1:A:178:PHE:CA	2.99	0.45
1:A:256:VAL:CG1	1:A:258:TRP:HE1	2.29	0.45
14:A:804:CLA:HMC2	14:A:805:CLA:C2D	2.46	0.45
2:B:339:TRP:HE1	14:B:3025:CLA:C2B	2.28	0.45
2:B:229:TRP:O	14:B:3017:CLA:H3A	2.16	0.45
1:A:256:VAL:CB	1:A:258:TRP:HE1	2.30	0.45
2:B:364:ILE:HG23	2:B:371:MET:SD	2.56	0.45
14:A:818:CLA:CBC	14:A:819:CLA:HMC2	2.45	0.45
2:B:498:VAL:HG11	14:B:3017:CLA:HED1	1.97	0.45
3:C:23:ASP:O	3:C:23:ASP:OD2	2.33	0.45
8:J:33:TYR:CE2	16:J:105:BCR:H401	2.52	0.45
10:L:59:ILE:HG22	10:L:78:GLY:O	2.16	0.45
1:A:310:ILE:O	14:A:823:CLA:HBC1	2.15	0.45
2:B:290:TYR:CD1	2:B:300:ILE:HD11	2.51	0.45
6:F:79:TRP:CH2	6:F:120:ALA:HA	2.52	0.45
1:A:67:ASP:OD1	1:A:71:LYS:HE3	2.16	0.45
1:A:256:VAL:HG12	1:A:258:TRP:HD1	1.78	0.45
2:B:322:HIS:CE1	2:B:410:VAL:HG11	2.52	0.45
14:B:3033:CLA:O1A	14:B:3033:CLA:C2	2.63	0.45
8:J:40:PRO:HD2	16:J:105:BCR:H382	1.99	0.45
1:A:246:PRO:O	1:A:258:TRP:CZ3	2.70	0.45
1:A:385:THR:O	1:A:523:LYS:NZ	2.45	0.45
6:F:2:VAL:O	6:F:5:LEU:HD13	2.17	0.45
8:J:4:PHE:HE1	8:J:8:LEU:HD13	1.81	0.45
1:A:249:MET:C	1:A:258:TRP:CH2	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:358:ILE:HD11	23:A:913:HOH:O	2.16	0.45
2:B:479:THR:HA	12:X:35:LYS:HG2	1.99	0.45
3:C:62:LEU:O	4:D:119:ILE:HD11	2.17	0.45
8:J:17:ILE:HD12	8:J:18:TRP:CA	2.47	0.45
10:L:110:PRO:O	10:L:113:THR:CG2	2.64	0.45
1:A:396:HIS:HB2	14:A:829:CLA:C1B	2.46	0.45
1:A:455:SER:OG	1:A:456:PHE:N	2.50	0.45
2:B:298:HIS:CD2	14:B:3022:CLA:ND	2.85	0.45
16:B:3046:BCR:H24C	16:B:3046:BCR:H371	1.84	0.45
3:C:37:GLN:HB3	4:D:105:VAL:HG21	1.99	0.45
6:F:79:TRP:CH2	6:F:120:ALA:CB	2.99	0.45
9:K:65:PHE:CE2	16:K:102:BCR:H292	2.52	0.45
1:A:387:TYR:HB3	1:A:751:ILE:HD11	1.99	0.45
1:A:587:CYS:HB2	2:B:673:TRP:HB3	1.99	0.45
1:A:697:TRP:CZ2	15:A:846:PQN:H2M3	2.52	0.45
14:B:3039:CLA:HMB2	14:B:3040:CLA:C3D	2.46	0.45
3:C:54:GLU:HG2	3:C:62:LEU:HD22	1.99	0.45
6:F:88:VAL:HG11	6:F:97:LYS:HB2	1.99	0.45
9:K:64:SER:HB3	9:K:68:LEU:CD2	2.46	0.45
1:A:80:LEU:HB3	1:A:172:MET:SD	2.56	0.44
2:B:226:THR:OG1	2:B:228:ASN:ND2	2.50	0.44
2:B:533:LEU:O	2:B:537:THR:HG23	2.18	0.44
2:B:600:TRP:HB2	14:B:3038:CLA:HMC1	1.98	0.44
18:B:3049:LHG:O1	12:X:12:ARG:NH2	2.50	0.44
6:F:24:THR:OG1	6:F:34:ARG:NH1	2.50	0.44
6:F:76:TRP:CD2	6:F:113:GLY:HA3	2.53	0.44
6:F:103:VAL:HG22	6:F:107:ILE:CD1	2.46	0.44
1:A:177:TRP:HE3	1:A:178:PHE:CA	2.29	0.44
1:A:341:HIS:HB3	1:A:344:LEU:HD12	1.99	0.44
9:K:24:LEU:HD11	9:K:70:ALA:HB2	1.98	0.44
1:A:98:SER:OG	1:A:99:ASN:N	2.50	0.44
1:A:175:ALA:HA	14:A:811:CLA:HBC2	1.98	0.44
1:A:289:THR:HG22	1:A:381:PRO:HB3	1.98	0.44
1:A:317:THR:HG22	14:A:821:CLA:O1D	2.17	0.44
14:A:844:CLA:HHC	14:A:844:CLA:CBB	2.48	0.44
2:B:41:LEU:O	2:B:45:ILE:HG12	2.18	0.44
2:B:313:LYS:O	2:B:314:VAL:HG13	2.17	0.44
2:B:473:LEU:HD12	2:B:473:LEU:H	1.82	0.44
2:B:566:ASP:HB3	2:B:573:THR:HG21	1.99	0.44
6:F:77:ILE:CD1	14:F:202:CLA:ND	2.81	0.44
9:K:29:LEU:HD22	9:K:62:THR:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:SER:CB	1:A:143:LEU:HG	2.48	0.44
1:A:300:HIS:HE1	14:A:819:CLA:ND	2.10	0.44
14:A:810:CLA:CAB	14:B:3034:CLA:HMD2	2.47	0.44
2:B:192:HIS:HB2	14:B:3015:CLA:CHC	2.47	0.44
2:B:266:SER:OG	2:B:267:LEU:N	2.49	0.44
3:C:53:CYS:SG	3:C:66:VAL:HG21	2.58	0.44
1:A:23:THR:O	1:A:23:THR:OG1	2.32	0.44
1:A:152:ILE:HD12	1:A:157:GLN:HB3	1.99	0.44
1:A:197:LEU:HD13	14:A:826:CLA:C3D	2.48	0.44
2:B:275:HIS:HB2	14:B:3018:CLA:C1B	2.46	0.44
2:B:360:PRO:HG3	14:B:3019:CLA:HBA2	1.98	0.44
2:B:525:VAL:HG21	2:B:599:TYR:CD1	2.53	0.44
2:B:598:PHE:CE1	2:B:727:TYR:CE1	3.06	0.44
5:E:15:TYR:CE2	5:E:44:ASN:HA	2.52	0.44
16:I:105:BCR:H24C	10:L:93:LEU:CD2	2.47	0.44
1:A:606:ILE:HA	1:A:609:VAL:HG22	2.00	0.44
14:A:804:CLA:HMC3	14:A:812:CLA:C5	2.48	0.44
2:B:430:LEU:HD21	16:F:201:BCR:H402	2.00	0.44
2:B:674:ARG:HD2	2:B:706:LEU:O	2.18	0.44
14:B:3031:CLA:H2A	14:B:3031:CLA:O1D	2.18	0.44
2:B:277:LEU:HD23	2:B:277:LEU:O	2.18	0.44
4:D:9:LEU:HD23	4:D:48:VAL:HG13	2.00	0.44
9:K:23:ASN:O	9:K:27:ILE:HG12	2.18	0.44
1:A:70:ARG:HB3	1:A:180:TYR:HD1	1.83	0.44
1:A:175:ALA:CA	14:A:811:CLA:HBC2	2.48	0.44
1:A:175:ALA:CB	14:A:811:CLA:HBC2	2.48	0.44
14:A:804:CLA:HHC	14:A:804:CLA:HBB1	1.99	0.44
2:B:324:GLY:HA2	2:B:327:GLU:OE1	2.18	0.44
5:E:1:VAL:HG12	5:E:1:VAL:O	2.17	0.44
6:F:76:TRP:NE1	14:F:202:CLA:CAD	2.79	0.44
16:I:102:BCR:H20C	16:I:102:BCR:H361	1.85	0.44
1:A:201:LEU:HD12	1:A:312:GLY:N	2.33	0.44
14:A:813:CLA:HHC	14:A:813:CLA:HBB1	2.00	0.44
2:B:36:MET:CE	2:B:41:LEU:CA	2.96	0.44
2:B:642:ASN:HB2	2:B:643:PRO:CD	2.47	0.44
16:B:3046:BCR:C8	16:B:3046:BCR:H331	2.48	0.44
10:L:72:ASP:N	10:L:72:ASP:OD1	2.50	0.44
1:A:152:ILE:CD1	1:A:157:GLN:HB3	2.48	0.43
1:A:204:LEU:CD1	14:A:814:CLA:CHB	2.95	0.43
1:A:433:VAL:HA	1:A:436:HIS:CE1	2.52	0.43
2:B:171:GLU:HG3	2:B:300:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:292:THR:HG21	14:B:3021:CLA:OBD	2.18	0.43
6:F:73:ILE:HD13	14:F:202:CLA:H3A	1.99	0.43
16:L:207:BCR:H20C	16:L:207:BCR:H361	1.82	0.43
1:A:25:PHE:CE1	8:J:4:PHE:CD2	3.06	0.43
1:A:143:LEU:HD22	1:A:146:LEU:HD23	1.97	0.43
1:A:409:ALA:HA	16:A:850:BCR:HC41	2.00	0.43
2:B:411:LEU:O	2:B:414:VAL:CG2	2.66	0.43
2:B:651:VAL:CG1	14:B:3010:CLA:HHD	2.48	0.43
22:L:206:DGD:O4D	22:L:206:DGD:O5D	2.36	0.43
1:A:432:ARG:HD3	14:A:832:CLA:OBD	2.17	0.43
14:B:3011:CLA:HHC	14:B:3011:CLA:HBB1	2.00	0.43
3:C:65:ARG:HB3	3:C:67:TYR:CE1	2.53	0.43
10:L:85:LEU:O	10:L:88:VAL:HG22	2.17	0.43
1:A:484:PRO:HG3	1:A:536:PHE:HB2	1.99	0.43
1:A:583:ARG:HA	3:C:76:MET:C	2.39	0.43
14:A:806:CLA:HBB1	14:A:806:CLA:HMB1	1.99	0.43
2:B:121:HIS:CG	2:B:364:ILE:HD12	2.54	0.43
2:B:291:ARG:N	2:B:298:HIS:O	2.51	0.43
2:B:651:VAL:HG13	14:B:3010:CLA:HAC1	2.01	0.43
14:B:3011:CLA:CBB	7:I:19:CYS:HB3	2.48	0.43
8:J:33:TYR:N	8:J:33:TYR:CD1	2.86	0.43
11:M:4:THR:H	11:M:7:GLN:NE2	2.15	0.43
16:M:103:BCR:H321	16:M:103:BCR:HC8	2.00	0.43
1:A:717:ILE:O	1:A:717:ILE:HG22	2.18	0.43
14:A:829:CLA:H41	14:A:829:CLA:H72	2.00	0.43
3:C:37:GLN:NE2	4:D:105:VAL:CG2	2.82	0.43
6:F:82:ARG:NH2	6:F:129:LEU:HD12	2.34	0.43
9:K:62:THR:HA	9:K:65:PHE:HB3	2.01	0.43
1:A:126:LEU:HB3	1:A:137:ILE:HD11	2.00	0.43
1:A:680:HIS:CE1	1:A:742:THR:HG21	2.54	0.43
14:A:814:CLA:HMB1	14:A:814:CLA:HBB1	2.01	0.43
2:B:203:GLY:HA2	2:B:244:GLY:O	2.19	0.43
2:B:267:LEU:N	2:B:267:LEU:HD23	2.33	0.43
6:F:23:ASN:OD1	6:F:30:SER:N	2.52	0.43
8:J:1:MET:O	8:J:5:LEU:HD22	2.18	0.43
9:K:74:VAL:O	9:K:77:LEU:CD2	2.67	0.43
10:L:49:GLU:HB2	14:L:203:CLA:HED1	2.00	0.43
12:X:29:TYR:CE1	12:X:34:LEU:HB2	2.53	0.43
1:A:26:GLU:HG3	8:J:3:HIS:CE1	2.53	0.43
1:A:115:GLN:O	1:A:115:GLN:CG	2.66	0.43
1:A:453:PHE:O	1:A:454:HIS:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:MET:HB2	14:A:803:CLA:CHC	2.48	0.43
14:A:822:CLA:CMB	14:A:826:CLA:HMA3	2.47	0.43
14:A:834:CLA:HMD2	14:A:835:CLA:C14	2.46	0.43
2:B:316:GLY:O	2:B:319:ASN:N	2.51	0.43
6:F:72:TYR:OH	6:F:114:PHE:O	2.30	0.43
1:A:433:VAL:HG12	14:A:832:CLA:C1D	2.49	0.43
1:A:440:ILE:HG22	1:A:441:ILE:N	2.34	0.43
14:A:814:CLA:CAD	14:A:826:CLA:H92	2.48	0.43
4:D:9:LEU:N	4:D:9:LEU:HD22	2.34	0.43
6:F:1:ASP:OD2	6:F:42:LEU:CD2	2.64	0.43
1:A:204:LEU:HD11	14:A:814:CLA:H3A	2.00	0.43
1:A:339:ALA:HB3	1:A:428:ASN:HA	2.01	0.43
1:A:396:HIS:HB2	14:A:829:CLA:CHB	2.49	0.43
1:A:561:ARG:O	1:A:569:LYS:HB3	2.18	0.43
14:A:829:CLA:H193	16:J:103:BCR:H14C	2.00	0.43
2:B:139:ILE:HG23	11:M:14:ILE:HD13	2.01	0.43
6:F:65:ILE:HB	6:F:66:PRO:HD3	1.99	0.43
14:J:101:CLA:HBB1	14:J:101:CLA:HMB1	2.01	0.43
11:M:13:VAL:O	11:M:16:LEU:HB2	2.19	0.43
14:A:833:CLA:HMB1	14:A:844:CLA:HAA2	2.00	0.43
2:B:338:GLY:HA2	2:B:389:ALA:HA	2.01	0.43
14:B:3034:CLA:H11	8:J:29:PHE:CE1	2.54	0.43
4:D:95:HIS:HB3	4:D:96:PRO:HD3	1.99	0.43
16:F:203:BCR:H24C	16:F:203:BCR:H371	1.90	0.43
9:K:60:LEU:HB2	9:K:63:THR:OG1	2.19	0.43
12:X:20:LEU:C	12:X:20:LEU:HD13	2.39	0.43
1:A:42:PRO:HB3	1:A:47:TRP:CD2	2.54	0.42
1:A:73:PHE:CE2	1:A:189:TRP:HH2	2.37	0.42
1:A:143:LEU:O	1:A:144:PHE:C	2.58	0.42
2:B:242:VAL:HG23	2:B:242:VAL:O	2.18	0.42
10:L:60:GLY:N	10:L:61:PRO:HD2	2.34	0.42
12:X:20:LEU:HD13	12:X:20:LEU:O	2.19	0.42
14:A:803:CLA:CMD	2:B:539:ILE:HD13	2.48	0.42
14:A:841:CLA:HBC1	15:A:846:PQN:H212	2.01	0.42
14:A:845:CLA:CHC	18:A:854:LHG:HC31	2.49	0.42
2:B:275:HIS:HE1	14:B:3018:CLA:ND	2.15	0.42
2:B:369:THR:HA	2:B:735:THR:HG21	2.01	0.42
2:B:616:ASN:OD1	2:B:616:ASN:N	2.52	0.42
14:B:3010:CLA:H91	14:B:3041:CLA:O1A	2.19	0.42
15:B:3042:PQN:H111	15:B:3042:PQN:H2M1	1.84	0.42
9:K:60:LEU:O	9:K:61:ALA:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:341:HIS:CD2	14:A:825:CLA:ND	2.86	0.42
1:A:556:GLY:HA2	1:A:594:HIS:ND1	2.34	0.42
2:B:391:ALA:HA	23:B:3141:HOH:O	2.19	0.42
2:B:446:VAL:HG22	2:B:451:THR:OG1	2.18	0.42
2:B:451:THR:OG1	2:B:451:THR:O	2.37	0.42
7:I:22:MET:HG3	7:I:23:PRO:CD	2.49	0.42
10:L:24:SER:O	10:L:28:LYS:HG3	2.18	0.42
1:A:26:GLU:O	1:A:30:LYS:HE3	2.20	0.42
1:A:226:LEU:HB2	1:A:236:ILE:HD12	2.01	0.42
1:A:414:ILE:HD13	14:A:831:CLA:CED	2.50	0.42
14:B:3037:CLA:HHC	14:B:3037:CLA:HBB1	2.01	0.42
14:I:101:CLA:HHC	14:I:101:CLA:CBB	2.49	0.42
9:K:69:LEU:O	9:K:73:VAL:HG23	2.19	0.42
1:A:618:GLN:HE22	1:A:657:GLN:NE2	2.18	0.42
2:B:17:THR:HG21	2:B:703:PRO:HA	2.00	0.42
2:B:424:HIS:CD2	14:B:3031:CLA:HMB1	2.55	0.42
2:B:570:ARG:N	5:E:47:GLY:O	2.53	0.42
16:B:3045:BCR:H20C	16:B:3045:BCR:H361	1.89	0.42
6:F:67:SER:O	6:F:71:LEU:HG	2.19	0.42
1:A:65:LEU:O	1:A:68:ILE:CD1	2.66	0.42
1:A:519:ALA:HB1	1:A:523:LYS:O	2.18	0.42
14:A:802:CLA:H201	14:B:3010:CLA:H2	2.00	0.42
2:B:173:ARG:CA	14:B:3014:CLA:HBC2	2.50	0.42
2:B:339:TRP:HE1	14:B:3025:CLA:C3B	2.32	0.42
14:B:3004:CLA:HBB1	14:B:3004:CLA:HMB1	2.01	0.42
15:B:3042:PQN:H141	14:I:101:CLA:HBB2	2.01	0.42
4:D:36:GLU:HA	4:D:49:MET:O	2.20	0.42
6:F:77:ILE:O	6:F:80:VAL:HG12	2.19	0.42
1:A:67:ASP:OD1	1:A:67:ASP:C	2.58	0.42
1:A:567:PRO:O	23:A:903:HOH:O	2.22	0.42
14:A:839:CLA:HMB2	14:A:840:CLA:C2D	2.49	0.42
2:B:74:GLU:O	2:B:77:VAL:HG22	2.20	0.42
2:B:321:PRO:O	2:B:409:ASN:HB2	2.19	0.42
2:B:573:THR:O	2:B:573:THR:OG1	2.34	0.42
2:B:698:ARG:HG2	2:B:698:ARG:NH1	2.33	0.42
11:M:17:LEU:HB3	11:M:18:PRO:CD	2.49	0.42
1:A:272:TRP:O	1:A:275:TYR:HB2	2.20	0.42
1:A:380:TYR:O	1:A:383:LEU:CD2	2.67	0.42
1:A:385:THR:HG22	1:A:524:VAL:O	2.19	0.42
1:A:609:VAL:HG11	14:A:838:CLA:HBB2	2.02	0.42
2:B:692:PRO:O	2:B:693:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:693:LEU:HA	2:B:696:LEU:CD1	2.50	0.42
14:B:3014:CLA:HBC3	14:B:3014:CLA:HMC1	2.01	0.42
9:K:29:LEU:HD22	9:K:62:THR:OG1	2.20	0.42
11:M:24:ARG:NH1	14:M:102:CLA:HHB	2.34	0.42
1:A:379:PRO:HD2	1:A:383:LEU:HD11	2.02	0.42
3:C:15:GLN:HA	3:C:18:ARG:HD2	2.01	0.42
5:E:9:ILE:O	5:E:10:LEU:HD12	2.20	0.42
8:J:24:GLY:HA2	8:J:27:ILE:HD13	2.02	0.42
1:A:319:TRP:HB3	9:K:58:GLU:OE2	2.20	0.42
2:B:351:VAL:HG22	14:B:3019:CLA:H42	2.01	0.42
2:B:493:PRO:HG3	14:B:3037:CLA:C1D	2.49	0.42
2:B:711:ALA:CB	15:B:3042:PQN:C8	2.97	0.42
8:J:1:MET:O	8:J:3:HIS:N	2.53	0.42
8:J:11:ALA:N	8:J:12:PRO:HD2	2.35	0.42
1:A:495:THR:HG21	1:A:514:GLY:CA	2.47	0.41
14:A:843:CLA:CGA	14:A:843:CLA:C1A	2.97	0.41
2:B:53:LEU:HD21	14:B:3006:CLA:CGA	2.50	0.41
1:A:80:LEU:HA	1:A:83:VAL:HG12	2.03	0.41
1:A:168:MET:O	1:A:172:MET:HG2	2.20	0.41
14:A:821:CLA:CAA	9:K:58:GLU:OE1	2.67	0.41
2:B:535:THR:O	2:B:539:ILE:HG13	2.20	0.41
2:B:668:MET:HB2	14:B:3004:CLA:CHC	2.50	0.41
6:F:8:CYS:SG	6:F:42:LEU:C	2.99	0.41
6:F:79:TRP:CZ3	6:F:120:ALA:HB2	2.55	0.41
9:K:70:ALA:O	9:K:74:VAL:HG23	2.20	0.41
1:A:25:PHE:O	8:J:3:HIS:HB3	2.20	0.41
1:A:135:HIS:ND1	1:A:135:HIS:N	2.68	0.41
1:A:713:VAL:O	1:A:713:VAL:HG22	2.20	0.41
14:A:832:CLA:HMB2	14:A:833:CLA:C1D	2.49	0.41
2:B:160:PHE:CD1	2:B:160:PHE:N	2.88	0.41
2:B:339:TRP:HH2	16:B:3050:BCR:H341	1.85	0.41
2:B:347:ILE:HG21	14:B:3025:CLA:H43	2.03	0.41
2:B:571:GLY:HA2	5:E:49:SER:HA	2.03	0.41
14:B:3004:CLA:CGA	14:B:3004:CLA:H3A	2.50	0.41
3:C:62:LEU:HB3	3:C:64:ILE:O	2.20	0.41
6:F:17:ARG:CD	6:F:48:LEU:HD21	2.50	0.41
7:I:6:ALA:HB2	11:M:3:LEU:O	2.21	0.41
16:I:102:BCR:H351	16:I:102:BCR:H15C	1.81	0.41
8:J:21:ILE:O	8:J:22:THR:C	2.57	0.41
9:K:64:SER:O	9:K:68:LEU:CD2	2.68	0.41
1:A:89:GLY:CA	14:A:808:CLA:HMC3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A:851:BCR:H373	2:B:437:LEU:CD1	2.50	0.41
8:J:29:PHE:CD1	8:J:29:PHE:C	2.94	0.41
9:K:43:LEU:HB3	9:K:57:PRO:CG	2.51	0.41
1:A:406:VAL:HG11	1:A:599:LEU:CD2	2.51	0.41
1:A:682:ILE:CD1	1:A:737:LEU:HD23	2.49	0.41
2:B:198:ILE:HD13	2:B:270:THR:HG22	2.02	0.41
2:B:321:PRO:HG3	2:B:413:ARG:HH21	1.85	0.41
2:B:490:THR:HG22	2:B:492:TRP:HA	2.02	0.41
2:B:727:TYR:HB2	14:B:3003:CLA:HED3	2.03	0.41
14:B:3004:CLA:H141	14:B:3004:CLA:H161	1.91	0.41
16:B:3044:BCR:H15C	16:B:3044:BCR:H351	1.96	0.41
3:C:60:ASP:OD1	3:C:60:ASP:O	2.38	0.41
6:F:103:VAL:N	6:F:104:PRO:CD	2.83	0.41
8:J:17:ILE:O	8:J:21:ILE:HG23	2.19	0.41
9:K:64:SER:O	9:K:68:LEU:HD22	2.21	0.41
10:L:57:PHE:CD1	10:L:57:PHE:C	2.93	0.41
1:A:80:LEU:O	1:A:83:VAL:HG12	2.19	0.41
1:A:177:TRP:O	1:A:181:HIS:HB2	2.21	0.41
2:B:67:VAL:O	2:B:71:GLY:N	2.44	0.41
2:B:299:SER:OG	2:B:302:GLU:HG3	2.20	0.41
2:B:441:VAL:CG1	14:B:3034:CLA:HMC3	2.47	0.41
2:B:569:GLY:CA	3:C:55:THR:HG22	2.50	0.41
15:B:3042:PQN:H141	14:I:101:CLA:CBB	2.51	0.41
4:D:27:TYR:CE2	4:D:61:LYS:HB2	2.55	0.41
6:F:64:LEU:N	6:F:64:LEU:CD1	2.84	0.41
1:A:76:HIS:CE1	14:A:806:CLA:C4D	3.03	0.41
1:A:93:HIS:HE1	14:A:808:CLA:NC	2.18	0.41
1:A:139:ILE:HD12	1:A:139:ILE:O	2.20	0.41
2:B:618:SER:O	2:B:624:GLY:HA3	2.20	0.41
6:F:8:CYS:HB3	6:F:14:PHE:CE2	2.54	0.41
6:F:59:ARG:HA	6:F:59:ARG:HD2	1.94	0.41
6:F:64:LEU:N	6:F:64:LEU:HD12	2.35	0.41
9:K:35:GLN:O	9:K:36:SER:HB3	2.20	0.41
10:L:143:LEU:HD22	10:L:143:LEU:N	2.36	0.41
1:A:94:GLY:HA3	1:A:147:TRP:CH2	2.56	0.41
1:A:665:TYR:OH	1:A:674:LEU:HD23	2.21	0.41
2:B:42:TYR:HD2	2:B:167:PHE:HB3	1.83	0.41
14:B:3038:CLA:H11	14:B:3039:CLA:O1A	2.20	0.41
3:C:1:ALA:HB1	23:C:204:HOH:O	2.20	0.41
8:J:38:PHE:CD1	8:J:38:PHE:N	2.89	0.41
16:J:103:BCR:C8	16:J:103:BCR:H311	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:GLY:N	16:A:847:BCR:HC21	2.36	0.41
1:A:443:HIS:CD2	14:A:833:CLA:NC	2.89	0.41
1:A:519:ALA:HA	1:A:524:VAL:HA	2.03	0.41
14:A:811:CLA:HBC3	14:A:811:CLA:CHD	2.49	0.41
14:A:821:CLA:CMB	9:K:64:SER:OG	2.69	0.41
2:B:277:LEU:HD21	14:B:3017:CLA:CAB	2.50	0.41
2:B:528:ALA:CB	14:B:3003:CLA:H192	2.50	0.41
14:B:3010:CLA:H43	16:I:102:BCR:H342	2.02	0.41
14:B:3011:CLA:HHC	14:B:3011:CLA:CBB	2.51	0.41
4:D:61:LYS:HE3	4:D:94:ILE:HD12	2.03	0.41
6:F:57:LEU:HA	6:F:60:ALA:HB2	2.02	0.41
6:F:84:TYR:CE1	6:F:88:VAL:HG21	2.56	0.41
8:J:21:ILE:HD12	8:J:25:ILE:HD11	2.03	0.41
9:K:39:LYS:HD2	9:K:56:LEU:CD1	2.51	0.41
1:A:149:ALA:HB2	1:A:381:PRO:HD3	2.03	0.41
1:A:377:MET:HE1	14:A:819:CLA:HBD	2.03	0.41
1:A:444:LEU:HB2	14:A:840:CLA:CBB	2.51	0.41
7:I:13:ILE:HG23	7:I:14:PHE:N	2.36	0.41
8:J:14:LEU:HA	8:J:17:ILE:HG13	2.03	0.41
9:K:39:LYS:HD2	9:K:56:LEU:HD13	2.03	0.41
9:K:58:GLU:HB2	9:K:60:LEU:CD2	2.51	0.41
9:K:59:LEU:C	9:K:59:LEU:HD12	2.41	0.41
1:A:297:THR:HG23	14:A:820:CLA:HMA3	2.03	0.40
1:A:445:ASN:O	1:A:449:ILE:HG13	2.21	0.40
1:A:493:LEU:HD11	14:A:836:CLA:HAC2	2.02	0.40
16:A:850:BCR:H11C	16:A:850:BCR:H341	1.95	0.40
2:B:4:PHE:CD2	7:I:34:ILE:HG22	2.56	0.40
2:B:677:TRP:CZ2	15:B:3042:PQN:H2M3	2.56	0.40
2:B:738:LYS:O	2:B:739:PHE:CD2	2.74	0.40
14:B:3024:CLA:HBC2	16:B:3050:BCR:H343	2.02	0.40
6:F:96:GLU:OE2	6:F:96:GLU:HA	2.20	0.40
10:L:111:LEU:HD12	10:L:111:LEU:HA	1.92	0.40
1:A:16:VAL:HG22	1:A:17:ASP:N	2.36	0.40
2:B:347:ILE:HD13	14:B:3025:CLA:H43	2.03	0.40
14:B:3005:CLA:HMB2	16:M:103:BCR:HC42	2.03	0.40
16:B:3046:BCR:H15C	16:B:3046:BCR:H351	1.89	0.40
4:D:9:LEU:HD22	4:D:50:ARG:HD3	2.03	0.40
6:F:2:VAL:O	6:F:2:VAL:HG13	2.21	0.40
14:I:101:CLA:NB	23:I:201:HOH:O	2.37	0.40
8:J:33:TYR:O	8:J:36:LEU:HD23	2.21	0.40
16:J:104:BCR:H321	16:J:104:BCR:C8	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:SER:HB3	14:A:829:CLA:HBB	2.03	0.40
1:A:462:ASN:O	1:A:463:ASP:C	2.59	0.40
14:A:803:CLA:HED1	2:B:426:SER:OG	2.22	0.40
2:B:199:PRO:HB2	2:B:206:VAL:HG23	2.04	0.40
2:B:537:THR:HG21	14:B:3026:CLA:HAB	2.04	0.40
16:B:3045:BCR:H24C	16:B:3045:BCR:H371	1.92	0.40
4:D:30:THR:O	4:D:80:TYR:HA	2.21	0.40
10:L:52:MET:HB3	14:L:203:CLA:HMA2	2.04	0.40
1:A:84:PHE:HB3	1:A:169:ALA:HB2	2.03	0.40
1:A:120:ILE:HG23	1:A:121:VAL:N	2.35	0.40
1:A:376:ALA:HB1	1:A:510:SER:OG	2.22	0.40
1:A:542:HIS:HE1	1:A:612:HIS:ND1	2.19	0.40
1:A:565:LEU:HD13	2:B:678:GLN:CG	2.51	0.40
2:B:173:ARG:N	14:B:3014:CLA:HBC2	2.36	0.40
2:B:235:ASN:OD1	2:B:250:GLY:HA2	2.21	0.40
14:B:3025:CLA:HBB1	14:B:3025:CLA:HMB1	2.02	0.40
14:B:3026:CLA:HMB2	14:B:3040:CLA:H3A	2.03	0.40
14:I:101:CLA:H142	10:L:85:LEU:CD1	2.51	0.40
12:X:27:ALA:O	12:X:31:PHE:HD1	2.05	0.40
1:A:149:ALA:HB2	1:A:381:PRO:CD	2.52	0.40
1:A:291:GLY:HA3	1:A:380:TYR:O	2.22	0.40
1:A:292:LEU:HD12	1:A:379:PRO:HA	2.04	0.40
1:A:410:ALA:O	1:A:414:ILE:HG13	2.22	0.40
2:B:166:TRP:HD1	14:B:3013:CLA:HED1	1.85	0.40
2:B:377:HIS:CD2	2:B:378:HIS:HD1	2.40	0.40
2:B:576:ILE:O	2:B:576:ILE:CG1	2.70	0.40
3:C:55:THR:HG21	23:C:207:HOH:O	2.21	0.40
6:F:103:VAL:N	6:F:104:PRO:HD3	2.36	0.40
16:F:203:BCR:H20C	16:F:203:BCR:H361	1.93	0.40
8:J:12:PRO:HB2	16:J:104:BCR:H391	2.03	0.40
8:J:37:LEU:HD23	8:J:37:LEU:O	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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



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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	736/755 (98%)	678 (92%)	58 (8%)	0	100	100
2	B	737/740 (100%)	684 (93%)	52 (7%)	1 (0%)	51	75
3	C	78/80 (98%)	73 (94%)	5 (6%)	0	100	100
4	D	136/138 (99%)	123 (90%)	13 (10%)	0	100	100
5	E	67/75 (89%)	55 (82%)	11 (16%)	1 (2%)	10	18
6	F	139/164 (85%)	124 (89%)	15 (11%)	0	100	100
7	I	36/38 (95%)	29 (81%)	7 (19%)	0	100	100
8	J	39/41 (95%)	35 (90%)	4 (10%)	0	100	100
9	K	43/83 (52%)	35 (81%)	8 (19%)	0	100	100
10	L	149/154 (97%)	140 (94%)	9 (6%)	0	100	100
11	M	29/31 (94%)	29 (100%)	0	0	100	100
12	X	27/35 (77%)	26 (96%)	1 (4%)	0	100	100
All	All	2216/2334 (95%)	2031 (92%)	183 (8%)	2 (0%)	51	75

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	25	SER
2	B	194	ILE

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

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	589/603 (98%)	558 (95%)	31 (5%)	22	38
2	B	597/597 (100%)	568 (95%)	29 (5%)	25	43
3	C	67/67 (100%)	61 (91%)	6 (9%)	9	16
4	D	115/115 (100%)	111 (96%)	4 (4%)	36	56

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	E	59/64 (92%)	56 (95%)	3 (5%)	24	41
6	F	109/128 (85%)	101 (93%)	8 (7%)	14	25
7	I	32/32 (100%)	31 (97%)	1 (3%)	40	60
8	J	36/36 (100%)	34 (94%)	2 (6%)	21	36
9	K	33/61 (54%)	26 (79%)	7 (21%)	1	1
10	L	117/119 (98%)	109 (93%)	8 (7%)	16	28
11	M	26/26 (100%)	26 (100%)	0	100	100
12	X	23/27 (85%)	20 (87%)	3 (13%)	4	6
All	All	1803/1875 (96%)	1701 (94%)	102 (6%)	20	36

All (102) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	ARG
1	A	43	GLN
1	A	45	THR
1	A	59	ASP
1	A	73	PHE
1	A	84	PHE
1	A	87	LEU
1	A	135	HIS
1	A	172	MET
1	A	186	LYS
1	A	188	GLU
1	A	207	LEU
1	A	257	ASP
1	A	268	PHE
1	A	275	TYR
1	A	276	SER
1	A	277	ASP
1	A	281	PHE
1	A	302	LEU
1	A	345	TYR
1	A	372	GLN
1	A	419	ASP
1	A	453	PHE
1	A	460	VAL
1	A	492	ASN
1	A	602	MET

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	614	SER
1	A	667	SER
1	A	709	ASN
1	A	720	ARG
1	A	747	PHE
2	B	53	LEU
2	B	141	LEU
2	B	155	HIS
2	B	160	PHE
2	B	212	LEU
2	B	223	PRO
2	B	256	PHE
2	B	291	ARG
2	B	293	GLN
2	B	313	LYS
2	B	314	VAL
2	B	328	THR
2	B	349	SER
2	B	357	SER
2	B	378	HIS
2	B	396	PHE
2	B	411	LEU
2	B	444	ASP
2	B	446	VAL
2	B	473	LEU
2	B	522	ASP
2	B	542	LYS
2	B	575	ASP
2	B	582	PHE
2	B	583	TYR
2	B	618	SER
2	B	621	TYR
2	B	635	SER
2	B	650	SER
3	C	13	CYS
3	C	16	CYS
3	C	18	ARG
3	C	25	LEU
3	C	45	GLU
3	C	65	ARG
4	D	33	SER
4	D	93	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	D	119	ILE
4	D	124	ASN
5	E	13	GLU
5	E	27	ASP
5	E	65	VAL
6	F	11	SER
6	F	39	SER
6	F	95	ASN
6	F	96	GLU
6	F	105	LEU
6	F	112	THR
6	F	132	LYS
6	F	137	THR
7	I	22	MET
8	J	35	ASP
8	J	38	PHE
9	K	23	ASN
9	K	25	PHE
9	K	29	LEU
9	K	43	LEU
9	K	60	LEU
9	K	63	THR
9	K	65	PHE
10	L	45	LEU
10	L	62	TRP
10	L	71	SER
10	L	72	ASP
10	L	106	SER
10	L	113	THR
10	L	134	VAL
10	L	152	LEU
12	X	12	ARG
12	X	23	ASN
12	X	30	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	43	GLN
1	A	138	GLN
1	A	245	ASN
1	A	542	HIS

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Mol	Chain	Res	Type
1	A	657	GLN
2	B	105	GLN
2	B	121	HIS
2	B	204	GLN
2	B	228	ASN
2	B	319	ASN
2	B	377	HIS
2	B	710	GLN
3	C	37	GLN
4	D	37	GLN
4	D	71	GLN
4	D	78	ASN
5	E	59	ASN
6	F	90	ASN
6	F	134	ASN
8	J	3	HIS
8	J	30	ASN
10	L	75	ASN
10	L	141	ASN
11	M	7	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 135 ligands modelled in this entry, 2 are monoatomic - leaving 133 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
14	CLA	B	3004	-	65,73,73	1.55	8 (12%)	76,113,113	1.40	10 (13%)
14	CLA	A	816	-	45,53,73	1.79	5 (11%)	52,89,113	1.69	9 (17%)
14	CLA	A	836	-	54,62,73	1.69	5 (9%)	62,99,113	1.44	7 (11%)
16	BCR	J	104	-	41,41,41	1.16	3 (7%)	56,56,56	1.25	7 (12%)
14	CLA	A	817	23	49,57,73	1.76	5 (10%)	55,93,113	1.49	8 (14%)
16	BCR	I	105	-	41,41,41	1.14	3 (7%)	56,56,56	1.46	10 (17%)
14	CLA	I	101	-	65,73,73	1.54	6 (9%)	76,113,113	1.48	8 (10%)
14	CLA	A	808	-	51,59,73	1.75	5 (9%)	59,96,113	1.47	8 (13%)
14	CLA	A	845	18	52,60,73	1.67	5 (9%)	60,97,113	1.59	9 (15%)
14	CLA	B	3018	-	59,67,73	1.58	5 (8%)	68,105,113	1.43	9 (13%)
16	BCR	F	203	-	41,41,41	1.12	3 (7%)	56,56,56	1.23	5 (8%)
18	LHG	M	101	-	48,48,48	0.62	1 (2%)	51,54,54	1.17	3 (5%)
16	BCR	I	103	-	41,41,41	1.19	3 (7%)	56,56,56	1.38	7 (12%)
14	CLA	B	3031	-	45,53,73	1.87	5 (11%)	52,89,113	1.64	8 (15%)
14	CLA	A	807	-	65,73,73	1.56	6 (9%)	76,113,113	1.26	7 (9%)
14	CLA	B	3014	-	65,73,73	1.52	5 (7%)	76,113,113	1.34	7 (9%)
14	CLA	X	1701	12	45,53,73	1.85	6 (13%)	52,89,113	1.62	8 (15%)
14	CLA	B	3003	-	65,73,73	1.53	6 (9%)	76,113,113	1.43	7 (9%)
16	BCR	J	103	-	41,41,41	1.15	3 (7%)	56,56,56	1.20	6 (10%)
16	BCR	A	847	-	41,41,41	1.18	3 (7%)	56,56,56	1.22	6 (10%)
16	BCR	K	102	-	41,41,41	1.09	3 (7%)	56,56,56	1.38	9 (16%)
14	CLA	A	831	-	65,73,73	1.50	5 (7%)	76,113,113	1.34	6 (7%)
18	LHG	A	853	-	48,48,48	0.61	1 (2%)	51,54,54	1.22	4 (7%)
14	CLA	A	813	-	54,62,73	1.66	6 (11%)	62,99,113	1.42	7 (11%)
14	CLA	B	3009	-	65,73,73	1.52	7 (10%)	76,113,113	1.36	5 (6%)
17	LMG	B	3048	-	55,55,55	0.73	0	63,63,63	1.33	6 (9%)
16	BCR	A	850	-	41,41,41	1.09	3 (7%)	56,56,56	1.25	7 (12%)
18	LHG	A	854	14	26,26,48	0.99	1 (3%)	29,32,54	1.32	3 (10%)
14	CLA	B	3016	-	45,53,73	1.79	5 (11%)	52,89,113	1.62	8 (15%)
16	BCR	A	848	-	41,41,41	1.15	3 (7%)	56,56,56	1.29	7 (12%)
14	CLA	L	203	10	65,73,73	1.47	7 (10%)	76,113,113	1.56	11 (14%)
14	CLA	A	812	14	65,73,73	1.52	6 (9%)	76,113,113	1.35	10 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
14	CLA	A	815	-	45,53,73	1.82	5 (11%)	52,89,113	1.51	8 (15%)
14	CLA	B	3028	-	65,73,73	1.49	6 (9%)	76,113,113	1.29	7 (9%)
14	CLA	B	3039	-	65,73,73	1.54	5 (7%)	76,113,113	1.37	8 (10%)
14	CLA	B	3025	2	54,62,73	1.68	5 (9%)	62,99,113	1.47	9 (14%)
16	BCR	F	201	-	41,41,41	1.17	3 (7%)	56,56,56	1.19	5 (8%)
13	CL0	A	801	-	65,73,73	1.50	6 (9%)	76,113,113	1.38	10 (13%)
14	CLA	A	802	23	65,73,73	1.51	7 (10%)	76,113,113	1.40	9 (11%)
14	CLA	A	833	-	65,73,73	1.50	6 (9%)	76,113,113	1.34	6 (7%)
14	CLA	B	3005	-	54,62,73	1.64	6 (11%)	62,99,113	1.53	7 (11%)
14	CLA	K	101	-	42,49,73	1.82	6 (14%)	48,83,113	1.54	7 (14%)
14	CLA	B	3037	23	45,53,73	1.90	6 (13%)	52,89,113	1.46	8 (15%)
14	CLA	B	3017	-	55,63,73	1.66	5 (9%)	64,101,113	1.40	6 (9%)
14	CLA	A	856	23	65,73,73	1.49	6 (9%)	76,113,113	1.42	8 (10%)
14	CLA	A	803	-	65,73,73	1.55	6 (9%)	76,113,113	1.36	9 (11%)
14	CLA	B	3038	-	60,68,73	1.60	5 (8%)	70,107,113	1.35	7 (10%)
14	CLA	B	3030	-	65,73,73	1.56	5 (7%)	76,113,113	1.37	9 (11%)
14	CLA	B	3040	-	47,55,73	1.82	5 (10%)	54,91,113	1.51	7 (12%)
14	CLA	A	839	-	65,73,73	1.48	7 (10%)	76,113,113	1.51	8 (10%)
14	CLA	A	821	-	42,50,73	1.83	5 (11%)	47,84,113	1.67	9 (19%)
14	CLA	A	844	23	65,73,73	1.52	6 (9%)	76,113,113	1.44	8 (10%)
14	CLA	B	3006	-	65,73,73	1.53	5 (7%)	76,113,113	1.37	7 (9%)
19	SF4	C	102	3	0,12,12	-	-	-	-	-
14	CLA	B	3023	23	55,63,73	1.62	6 (10%)	64,101,113	1.43	7 (10%)
14	CLA	B	3019	-	60,68,73	1.59	5 (8%)	70,107,113	1.36	8 (11%)
14	CLA	B	3010	2	65,73,73	1.53	8 (12%)	76,113,113	1.48	11 (14%)
16	BCR	B	3045	-	41,41,41	1.12	3 (7%)	56,56,56	1.22	7 (12%)
16	BCR	I	102	-	41,41,41	1.07	3 (7%)	56,56,56	1.36	8 (14%)
14	CLA	A	819	-	54,62,73	1.68	8 (14%)	62,99,113	1.48	9 (14%)
14	CLA	B	3007	-	65,73,73	1.53	6 (9%)	76,113,113	1.36	6 (7%)
14	CLA	B	3035	-	45,53,73	1.81	6 (13%)	52,89,113	1.58	7 (13%)
14	CLA	L	204	-	65,73,73	1.48	5 (7%)	76,113,113	1.42	7 (9%)
14	CLA	A	805	14	59,67,73	1.63	6 (10%)	68,105,113	1.33	7 (10%)
14	CLA	A	809	1	65,73,73	1.50	5 (7%)	76,113,113	1.31	8 (10%)
14	CLA	A	835	-	65,73,73	1.46	5 (7%)	76,113,113	1.33	10 (13%)
17	LMG	I	104	-	40,40,55	1.15	4 (10%)	48,48,63	1.15	3 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
14	CLA	A	825	-	59,67,73	1.60	5 (8%)	68,105,113	1.34	8 (11%)
14	CLA	B	3034	-	58,66,73	1.57	5 (8%)	67,104,113	1.48	11 (16%)
14	CLA	B	3029	-	65,73,73	1.52	7 (10%)	76,113,113	1.39	9 (11%)
14	CLA	B	3015	-	65,73,73	1.48	5 (7%)	76,113,113	1.31	7 (9%)
14	CLA	A	822	23	65,73,73	1.48	5 (7%)	76,113,113	1.32	7 (9%)
14	CLA	B	3008	-	65,73,73	1.47	6 (9%)	76,113,113	1.46	8 (10%)
16	BCR	B	3047	-	41,41,41	1.12	3 (7%)	56,56,56	1.26	7 (12%)
14	CLA	F	202	23	45,53,73	1.89	5 (11%)	52,89,113	1.38	6 (11%)
16	BCR	A	851	-	41,41,41	1.14	3 (7%)	56,56,56	1.37	7 (12%)
16	BCR	B	3043	-	41,41,41	1.10	3 (7%)	56,56,56	1.20	6 (10%)
21	LMT	L	201	-	36,36,36	1.11	5 (13%)	47,47,47	1.17	3 (6%)
14	CLA	A	806	-	65,73,73	1.52	5 (7%)	76,113,113	1.38	9 (11%)
16	BCR	A	849	-	41,41,41	1.09	3 (7%)	56,56,56	1.21	5 (8%)
17	LMG	A	852	-	48,48,55	0.85	1 (2%)	56,56,63	1.26	5 (8%)
14	CLA	L	205	23	65,73,73	1.49	5 (7%)	76,113,113	1.49	9 (11%)
14	CLA	B	3032	-	49,57,73	1.71	5 (10%)	55,93,113	1.57	9 (16%)
14	CLA	J	101	8	45,53,73	1.84	5 (11%)	52,89,113	1.47	6 (11%)
14	CLA	M	102	23	45,53,73	1.84	8 (17%)	52,89,113	1.50	10 (19%)
16	BCR	M	103	-	41,41,41	1.14	3 (7%)	56,56,56	1.11	3 (5%)
16	BCR	B	3046	-	41,41,41	1.13	3 (7%)	56,56,56	1.29	8 (14%)
14	CLA	A	824	-	51,59,73	1.72	5 (9%)	59,96,113	1.45	8 (13%)
14	CLA	A	830	-	65,73,73	1.52	5 (7%)	76,113,113	1.29	7 (9%)
14	CLA	B	3013	-	45,53,73	1.87	5 (11%)	52,89,113	1.54	8 (15%)
16	BCR	B	3044	-	41,41,41	1.13	3 (7%)	56,56,56	1.20	6 (10%)
19	SF4	B	3001	2,1	0,12,12	-	-	-	-	-
14	CLA	A	814	-	60,68,73	1.57	6 (10%)	70,107,113	1.37	9 (12%)
14	CLA	B	3026	23	46,54,73	1.81	5 (10%)	53,90,113	1.60	8 (15%)
14	CLA	A	826	23	65,73,73	1.51	5 (7%)	76,113,113	1.33	9 (11%)
14	CLA	B	3020	23	65,73,73	1.49	7 (10%)	76,113,113	1.39	8 (10%)
16	BCR	B	3050	-	41,41,41	1.19	3 (7%)	56,56,56	1.24	6 (10%)
14	CLA	A	834	-	65,73,73	1.57	6 (9%)	76,113,113	1.32	7 (9%)
14	CLA	A	810	1	65,73,73	1.50	6 (9%)	76,113,113	1.40	9 (11%)
14	CLA	B	3012	-	45,53,73	1.83	6 (13%)	52,89,113	1.68	8 (15%)
14	CLA	B	3027	-	65,73,73	1.54	5 (7%)	76,113,113	1.29	8 (10%)
14	CLA	A	820	-	65,73,73	1.50	6 (9%)	76,113,113	1.54	11 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
14	CLA	A	804	-	65,73,73	1.54	6 (9%)	76,113,113	1.24	7 (9%)
17	LMG	A	855	-	30,30,55	1.16	2 (6%)	37,37,63	1.26	4 (10%)
14	CLA	A	818	-	54,62,73	1.67	5 (9%)	62,99,113	1.41	7 (11%)
14	CLA	A	837	1	45,53,73	1.86	5 (11%)	52,89,113	1.50	6 (11%)
14	CLA	A	838	-	51,59,73	1.72	6 (11%)	59,96,113	1.38	7 (11%)
14	CLA	K	103	-	45,53,73	1.81	6 (13%)	52,89,113	1.51	8 (15%)
16	BCR	J	105	-	41,41,41	1.09	3 (7%)	56,56,56	1.31	9 (16%)
14	CLA	B	3022	-	45,53,73	1.82	5 (11%)	52,89,113	1.53	7 (13%)
18	LHG	B	3049	-	22,22,48	1.16	2 (9%)	25,28,54	1.20	1 (4%)
22	DGD	L	206	-	67,67,67	0.99	5 (7%)	81,81,81	1.29	8 (9%)
16	BCR	L	207	-	41,41,41	1.14	3 (7%)	56,56,56	1.25	6 (10%)
14	CLA	B	3036	23	45,53,73	1.85	5 (11%)	52,89,113	1.53	6 (11%)
14	CLA	B	3021	-	47,55,73	1.79	6 (12%)	54,91,113	1.60	9 (16%)
14	CLA	A	823	-	49,57,73	1.75	5 (10%)	55,93,113	1.59	9 (16%)
14	CLA	A	843	-	65,73,73	1.52	5 (7%)	76,113,113	1.32	7 (9%)
14	CLA	B	3041	-	65,73,73	1.55	6 (9%)	76,113,113	1.42	7 (9%)
15	PQN	A	846	-	34,34,34	2.10	7 (20%)	42,45,45	1.28	6 (14%)
14	CLA	A	841	-	65,73,73	1.49	5 (7%)	76,113,113	1.44	10 (13%)
19	SF4	C	101	3	0,12,12	-	-	-	-	-
14	CLA	A	829	-	65,73,73	1.51	5 (7%)	76,113,113	1.31	7 (9%)
14	CLA	A	832	-	50,58,73	1.72	6 (12%)	58,95,113	1.53	9 (15%)
14	CLA	A	827	23	65,73,73	1.50	6 (9%)	76,113,113	1.31	10 (13%)
14	CLA	A	828	-	65,73,73	1.56	5 (7%)	76,113,113	1.30	8 (10%)
15	PQN	B	3042	-	34,34,34	1.98	7 (20%)	42,45,45	1.20	6 (14%)
14	CLA	A	840	-	47,55,73	1.84	5 (10%)	54,91,113	1.52	9 (16%)
14	CLA	B	3011	2	65,73,73	1.50	6 (9%)	76,113,113	1.38	10 (13%)
14	CLA	B	3033	-	65,73,73	1.50	5 (7%)	76,113,113	1.37	8 (10%)
14	CLA	B	3024	-	45,53,73	1.82	8 (17%)	52,89,113	1.53	9 (17%)
14	CLA	A	811	-	45,53,73	1.79	6 (13%)	52,89,113	1.53	8 (15%)
14	CLA	A	842	23	51,59,73	1.70	6 (11%)	59,96,113	1.54	7 (11%)
14	CLA	J	102	-	38,45,73	1.96	6 (15%)	43,78,113	1.51	7 (16%)

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
14	CLA	B	3004	-	1/1/20/20	8/37/115/115	-
14	CLA	A	816	-	1/1/15/20	5/13/91/115	-
14	CLA	A	836	-	1/1/17/20	7/24/102/115	-
16	BCR	J	104	-	-	15/29/63/63	0/2/2/2
14	CLA	A	817	23	1/1/16/20	7/18/96/115	-
16	BCR	I	105	-	-	18/29/63/63	0/2/2/2
14	CLA	I	101	-	1/1/20/20	10/37/115/115	-
14	CLA	A	808	-	1/1/17/20	10/21/99/115	-
14	CLA	A	845	18	1/1/17/20	8/22/100/115	-
14	CLA	B	3018	-	1/1/18/20	12/30/108/115	-
16	BCR	F	203	-	-	12/29/63/63	0/2/2/2
18	LHG	M	101	-	-	26/53/53/53	-
16	BCR	I	103	-	-	6/29/63/63	0/2/2/2
14	CLA	B	3031	-	1/1/15/20	7/13/91/115	-
14	CLA	A	807	-	1/1/20/20	15/37/115/115	-
14	CLA	B	3014	-	1/1/20/20	14/37/115/115	-
14	CLA	X	1701	12	1/1/15/20	4/13/91/115	-
14	CLA	B	3003	-	1/1/20/20	16/37/115/115	-
16	BCR	J	103	-	-	12/29/63/63	0/2/2/2
16	BCR	A	847	-	-	14/29/63/63	0/2/2/2
16	BCR	K	102	-	-	9/29/63/63	0/2/2/2
14	CLA	A	831	-	1/1/20/20	9/37/115/115	-
18	LHG	A	853	-	-	24/53/53/53	-
14	CLA	A	813	-	1/1/17/20	5/24/102/115	-
14	CLA	B	3009	-	1/1/20/20	9/37/115/115	-
17	LMG	B	3048	-	-	24/50/70/70	0/1/1/1
16	BCR	A	850	-	-	9/29/63/63	0/2/2/2
18	LHG	A	854	14	-	12/31/31/53	-
14	CLA	B	3016	-	1/1/15/20	3/13/91/115	-
16	BCR	A	848	-	-	8/29/63/63	0/2/2/2
14	CLA	L	203	10	1/1/20/20	11/37/115/115	-
14	CLA	A	812	14	1/1/20/20	11/37/115/115	-
14	CLA	A	815	-	1/1/15/20	3/13/91/115	-
14	CLA	B	3028	-	1/1/20/20	13/37/115/115	-
14	CLA	B	3039	-	1/1/20/20	9/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	B	3025	2	-	9/24/102/115	-
16	BCR	F	201	-	-	9/29/63/63	0/2/2/2
13	CL0	A	801	-	3/3/25/25	10/37/135/135	-
14	CLA	A	802	23	1/1/20/20	10/37/115/115	-
14	CLA	A	833	-	1/1/20/20	8/37/115/115	-
14	CLA	B	3005	-	1/1/17/20	5/24/102/115	-
14	CLA	K	101	-	1/1/13/20	1/7/81/115	-
14	CLA	B	3037	23	1/1/15/20	4/13/91/115	-
14	CLA	B	3017	-	1/1/18/20	5/25/103/115	-
14	CLA	A	856	23	1/1/20/20	16/37/115/115	-
14	CLA	A	803	-	1/1/20/20	6/37/115/115	-
14	CLA	B	3038	-	1/1/19/20	10/31/109/115	-
14	CLA	B	3030	-	1/1/20/20	13/37/115/115	-
14	CLA	B	3040	-	-	5/16/94/115	-
14	CLA	A	839	-	1/1/20/20	11/37/115/115	-
14	CLA	A	821	-	1/1/14/20	2/8/86/115	-
14	CLA	A	844	23	1/1/20/20	12/37/115/115	-
14	CLA	B	3006	-	1/1/20/20	14/37/115/115	-
19	SF4	C	102	3	-	-	0/6/5/5
14	CLA	B	3023	23	1/1/18/20	6/25/103/115	-
14	CLA	B	3019	-	1/1/19/20	10/31/109/115	-
14	CLA	B	3010	2	1/1/20/20	14/37/115/115	-
16	BCR	B	3045	-	-	9/29/63/63	0/2/2/2
16	BCR	I	102	-	-	5/29/63/63	0/2/2/2
14	CLA	A	819	-	1/1/17/20	8/24/102/115	-
14	CLA	B	3007	-	1/1/20/20	10/37/115/115	-
14	CLA	B	3035	-	1/1/15/20	5/13/91/115	-
14	CLA	L	204	-	1/1/20/20	5/37/115/115	-
14	CLA	A	805	14	1/1/18/20	8/30/108/115	-
14	CLA	A	809	1	1/1/20/20	17/37/115/115	-
14	CLA	A	835	-	1/1/20/20	9/37/115/115	-
17	LMG	I	104	-	-	18/35/55/70	0/1/1/1
14	CLA	A	825	-	1/1/18/20	13/30/108/115	-
14	CLA	B	3034	-	1/1/18/20	10/29/107/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CLA	B	3029	-	1/1/20/20	17/37/115/115	-
14	CLA	B	3015	-	1/1/20/20	14/37/115/115	-
14	CLA	A	822	23	1/1/20/20	15/37/115/115	-
14	CLA	B	3008	-	1/1/20/20	10/37/115/115	-
16	BCR	B	3047	-	-	2/29/63/63	0/2/2/2
14	CLA	F	202	23	1/1/15/20	4/13/91/115	-
16	BCR	A	851	-	-	17/29/63/63	0/2/2/2
16	BCR	B	3043	-	-	9/29/63/63	0/2/2/2
21	LMT	L	201	-	-	11/21/61/61	0/2/2/2
14	CLA	A	806	-	1/1/20/20	20/37/115/115	-
16	BCR	A	849	-	-	7/29/63/63	0/2/2/2
17	LMG	A	852	-	-	24/43/63/70	0/1/1/1
14	CLA	L	205	23	1/1/20/20	8/37/115/115	-
14	CLA	B	3032	-	1/1/16/20	7/18/96/115	-
14	CLA	J	101	8	1/1/15/20	7/13/91/115	-
14	CLA	M	102	23	1/1/15/20	6/13/91/115	-
16	BCR	M	103	-	-	7/29/63/63	0/2/2/2
16	BCR	B	3046	-	-	14/29/63/63	0/2/2/2
14	CLA	A	824	-	1/1/17/20	4/21/99/115	-
14	CLA	A	830	-	1/1/20/20	15/37/115/115	-
14	CLA	B	3013	-	1/1/15/20	5/13/91/115	-
16	BCR	B	3044	-	-	11/29/63/63	0/2/2/2
19	SF4	B	3001	2,1	-	-	0/6/5/5
14	CLA	A	814	-	1/1/19/20	5/31/109/115	-
14	CLA	B	3026	23	1/1/15/20	2/15/93/115	-
14	CLA	A	826	23	1/1/20/20	11/37/115/115	-
14	CLA	B	3020	23	1/1/20/20	12/37/115/115	-
16	BCR	B	3050	-	-	11/29/63/63	0/2/2/2
14	CLA	A	834	-	1/1/20/20	7/37/115/115	-
14	CLA	A	810	1	1/1/20/20	11/37/115/115	-
14	CLA	B	3012	-	1/1/15/20	4/13/91/115	-
14	CLA	B	3027	-	1/1/20/20	12/37/115/115	-
14	CLA	A	820	-	1/1/20/20	19/37/115/115	-
14	CLA	A	804	-	1/1/20/20	11/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
17	LMG	A	855	-	-	12/23/43/70	0/1/1/1
14	CLA	A	818	-	1/1/17/20	4/24/102/115	-
14	CLA	A	837	1	1/1/15/20	10/13/91/115	-
14	CLA	A	838	-	1/1/17/20	6/21/99/115	-
14	CLA	K	103	-	1/1/15/20	6/13/91/115	-
16	BCR	J	105	-	-	11/29/63/63	0/2/2/2
14	CLA	B	3022	-	1/1/15/20	6/13/91/115	-
18	LHG	B	3049	-	-	11/26/26/53	-
22	DGD	L	206	-	-	19/55/95/95	0/2/2/2
16	BCR	L	207	-	-	9/29/63/63	0/2/2/2
14	CLA	B	3036	23	1/1/15/20	6/13/91/115	-
14	CLA	B	3021	-	1/1/15/20	12/16/94/115	-
14	CLA	A	823	-	1/1/16/20	12/18/96/115	-
14	CLA	A	843	-	1/1/20/20	7/37/115/115	-
14	CLA	B	3041	-	1/1/20/20	7/37/115/115	-
15	PQN	A	846	-	-	11/23/43/43	0/2/2/2
14	CLA	A	841	-	1/1/20/20	7/37/115/115	-
19	SF4	C	101	3	-	-	0/6/5/5
14	CLA	A	829	-	1/1/20/20	11/37/115/115	-
14	CLA	A	832	-	1/1/17/20	7/19/97/115	-
14	CLA	A	827	23	1/1/20/20	10/37/115/115	-
14	CLA	A	828	-	1/1/20/20	8/37/115/115	-
15	PQN	B	3042	-	-	9/23/43/43	0/2/2/2
14	CLA	A	840	-	1/1/15/20	5/16/94/115	-
14	CLA	B	3011	2	1/1/20/20	16/37/115/115	-
14	CLA	B	3033	-	1/1/20/20	18/37/115/115	-
14	CLA	B	3024	-	1/1/15/20	6/13/91/115	-
14	CLA	A	811	-	1/1/15/20	8/13/91/115	-
14	CLA	A	842	23	1/1/17/20	6/21/99/115	-
14	CLA	J	102	-	1/1/12/20	0/2/76/115	-

All (645) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	834	CLA	C4B-NB	8.40	1.42	1.35
14	B	3037	CLA	C4B-NB	8.33	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	805	CLA	C4B-NB	8.28	1.42	1.35
14	B	3030	CLA	C4B-NB	8.28	1.42	1.35
14	B	3013	CLA	C4B-NB	8.21	1.42	1.35
14	A	808	CLA	C4B-NB	8.13	1.42	1.35
14	A	840	CLA	C4B-NB	8.13	1.42	1.35
14	A	828	CLA	C4B-NB	8.06	1.42	1.35
14	B	3040	CLA	C4B-NB	8.06	1.42	1.35
14	A	817	CLA	C4B-NB	8.05	1.42	1.35
14	A	804	CLA	C4B-NB	8.05	1.42	1.35
14	B	3031	CLA	C4B-NB	8.04	1.42	1.35
14	A	803	CLA	C4B-NB	8.04	1.42	1.35
14	F	202	CLA	C4B-NB	8.02	1.42	1.35
14	A	837	CLA	C4B-NB	7.95	1.42	1.35
14	A	830	CLA	C4B-NB	7.90	1.42	1.35
14	A	807	CLA	C4B-NB	7.88	1.42	1.35
14	A	844	CLA	C4B-NB	7.88	1.42	1.35
14	B	3003	CLA	C4B-NB	7.87	1.42	1.35
14	X	1701	CLA	C4B-NB	7.87	1.42	1.35
14	J	102	CLA	C4B-NB	7.85	1.42	1.35
14	A	838	CLA	C4B-NB	7.84	1.42	1.35
14	B	3036	CLA	C4B-NB	7.83	1.42	1.35
14	J	101	CLA	C4B-NB	7.83	1.42	1.35
14	A	829	CLA	C4B-NB	7.83	1.42	1.35
14	B	3017	CLA	C4B-NB	7.83	1.42	1.35
14	B	3041	CLA	C4B-NB	7.83	1.42	1.35
14	B	3027	CLA	C4B-NB	7.83	1.42	1.35
14	B	3038	CLA	C4B-NB	7.83	1.42	1.35
14	B	3019	CLA	C4B-NB	7.82	1.42	1.35
14	B	3039	CLA	C4B-NB	7.81	1.42	1.35
14	A	843	CLA	C4B-NB	7.80	1.42	1.35
14	A	823	CLA	C4B-NB	7.78	1.42	1.35
14	A	813	CLA	C4B-NB	7.78	1.42	1.35
14	A	836	CLA	C4B-NB	7.73	1.42	1.35
14	B	3029	CLA	C4B-NB	7.73	1.42	1.35
14	B	3009	CLA	C4B-NB	7.72	1.42	1.35
14	B	3026	CLA	C4B-NB	7.71	1.42	1.35
14	B	3021	CLA	C4B-NB	7.71	1.42	1.35
14	L	204	CLA	C4B-NB	7.69	1.42	1.35
14	A	812	CLA	C4B-NB	7.69	1.42	1.35
14	B	3022	CLA	C4B-NB	7.68	1.42	1.35
14	A	818	CLA	C4B-NB	7.67	1.42	1.35
14	A	824	CLA	C4B-NB	7.66	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	A	801	CL0	C4B-NB	7.65	1.42	1.35
14	A	809	CLA	C4B-NB	7.64	1.42	1.35
14	B	3025	CLA	C4B-NB	7.63	1.42	1.35
14	B	3033	CLA	C4B-NB	7.62	1.42	1.35
14	M	102	CLA	C4B-NB	7.62	1.42	1.35
14	B	3005	CLA	C4B-NB	7.61	1.42	1.35
14	B	3006	CLA	C4B-NB	7.61	1.42	1.35
14	A	806	CLA	C4B-NB	7.61	1.42	1.35
14	B	3004	CLA	C4B-NB	7.60	1.42	1.35
14	A	826	CLA	C4B-NB	7.60	1.42	1.35
14	A	825	CLA	C4B-NB	7.58	1.42	1.35
14	A	856	CLA	C4B-NB	7.58	1.42	1.35
14	B	3035	CLA	C4B-NB	7.58	1.42	1.35
14	A	815	CLA	C4B-NB	7.57	1.42	1.35
14	A	841	CLA	C4B-NB	7.57	1.42	1.35
14	B	3012	CLA	C4B-NB	7.53	1.41	1.35
14	B	3032	CLA	C4B-NB	7.52	1.41	1.35
14	A	816	CLA	C4B-NB	7.52	1.41	1.35
14	A	820	CLA	C4B-NB	7.51	1.41	1.35
14	A	811	CLA	C4B-NB	7.50	1.41	1.35
14	A	821	CLA	C4B-NB	7.49	1.41	1.35
14	A	810	CLA	C4B-NB	7.48	1.41	1.35
14	B	3016	CLA	C4B-NB	7.48	1.41	1.35
14	A	845	CLA	C4B-NB	7.47	1.41	1.35
14	A	814	CLA	C4B-NB	7.46	1.41	1.35
14	K	101	CLA	C4B-NB	7.45	1.41	1.35
14	A	831	CLA	C4B-NB	7.45	1.41	1.35
14	B	3007	CLA	C4B-NB	7.43	1.41	1.35
14	B	3034	CLA	C4B-NB	7.43	1.41	1.35
14	A	832	CLA	C4B-NB	7.43	1.41	1.35
14	B	3018	CLA	C4B-NB	7.41	1.41	1.35
14	A	819	CLA	C4B-NB	7.39	1.41	1.35
14	A	842	CLA	C4B-NB	7.38	1.41	1.35
14	A	839	CLA	C4B-NB	7.38	1.41	1.35
14	B	3020	CLA	C4B-NB	7.37	1.41	1.35
14	B	3014	CLA	C4B-NB	7.36	1.41	1.35
14	A	802	CLA	C4B-NB	7.35	1.41	1.35
14	B	3023	CLA	C4B-NB	7.34	1.41	1.35
14	B	3010	CLA	C4B-NB	7.34	1.41	1.35
14	L	205	CLA	C4B-NB	7.30	1.41	1.35
14	B	3015	CLA	C4B-NB	7.30	1.41	1.35
14	A	827	CLA	C4B-NB	7.30	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	K	103	CLA	C4B-NB	7.30	1.41	1.35
14	B	3024	CLA	C4B-NB	7.30	1.41	1.35
14	I	101	CLA	C4B-NB	7.29	1.41	1.35
14	B	3011	CLA	C4B-NB	7.26	1.41	1.35
14	A	833	CLA	C4B-NB	7.24	1.41	1.35
14	A	822	CLA	C4B-NB	7.24	1.41	1.35
14	B	3028	CLA	C4B-NB	7.20	1.41	1.35
14	B	3008	CLA	C4B-NB	7.07	1.41	1.35
14	L	203	CLA	C4B-NB	7.01	1.41	1.35
14	A	835	CLA	C4B-NB	6.89	1.41	1.35
15	B	3042	PQN	O1-C1	5.90	1.35	1.23
15	A	846	PQN	O4-C4	5.85	1.35	1.23
15	B	3042	PQN	O4-C4	5.85	1.35	1.23
15	A	846	PQN	O1-C1	5.76	1.35	1.23
15	A	846	PQN	C10-C1	-5.00	1.38	1.48
14	A	840	CLA	C1D-ND	4.39	1.43	1.37
14	I	101	CLA	C1D-ND	4.31	1.43	1.37
14	B	3007	CLA	C1D-ND	4.16	1.42	1.37
14	B	3006	CLA	C1D-ND	4.16	1.42	1.37
14	A	823	CLA	C1D-ND	4.16	1.42	1.37
14	A	828	CLA	C1D-ND	4.16	1.42	1.37
14	B	3014	CLA	C1D-ND	4.14	1.42	1.37
14	A	825	CLA	C1D-ND	4.12	1.42	1.37
14	B	3018	CLA	C1D-ND	4.11	1.42	1.37
14	B	3026	CLA	C1D-ND	4.11	1.42	1.37
14	A	807	CLA	C1D-ND	4.09	1.42	1.37
14	A	824	CLA	C1D-ND	4.09	1.42	1.37
14	B	3040	CLA	C1D-ND	4.08	1.42	1.37
14	B	3036	CLA	C1D-ND	4.07	1.42	1.37
14	B	3012	CLA	C1D-ND	4.07	1.42	1.37
14	A	816	CLA	C1D-ND	4.07	1.42	1.37
14	B	3021	CLA	C1D-ND	4.06	1.42	1.37
14	B	3027	CLA	C1D-ND	4.05	1.42	1.37
14	A	832	CLA	C1D-ND	4.05	1.42	1.37
14	A	810	CLA	C1D-ND	4.05	1.42	1.37
14	F	202	CLA	C1D-ND	4.04	1.42	1.37
14	J	101	CLA	C1D-ND	4.03	1.42	1.37
14	B	3031	CLA	C1D-ND	4.01	1.42	1.37
14	B	3028	CLA	C1D-ND	4.01	1.42	1.37
14	A	818	CLA	C1D-ND	4.00	1.42	1.37
14	B	3030	CLA	C1D-ND	3.99	1.42	1.37
14	A	829	CLA	C1D-ND	3.99	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	3035	CLA	C1D-ND	3.99	1.42	1.37
14	A	819	CLA	C1D-ND	3.98	1.42	1.37
14	B	3016	CLA	C1D-ND	3.98	1.42	1.37
14	A	845	CLA	C1D-ND	3.97	1.42	1.37
14	B	3033	CLA	C1D-ND	3.96	1.42	1.37
14	A	806	CLA	C1D-ND	3.96	1.42	1.37
14	A	812	CLA	C1D-ND	3.95	1.42	1.37
14	A	820	CLA	C1D-ND	3.94	1.42	1.37
14	B	3038	CLA	C1D-ND	3.93	1.42	1.37
14	A	802	CLA	C1D-ND	3.93	1.42	1.37
14	A	837	CLA	C1D-ND	3.92	1.42	1.37
14	B	3025	CLA	C1D-ND	3.91	1.42	1.37
14	A	836	CLA	C1D-ND	3.91	1.42	1.37
14	A	842	CLA	C1D-ND	3.91	1.42	1.37
14	A	843	CLA	C1D-ND	3.91	1.42	1.37
14	A	841	CLA	C1D-ND	3.89	1.42	1.37
14	A	839	CLA	C1D-ND	3.89	1.42	1.37
14	A	808	CLA	C1D-ND	3.88	1.42	1.37
14	K	103	CLA	C1D-ND	3.86	1.42	1.37
14	A	822	CLA	C1D-ND	3.86	1.42	1.37
14	B	3039	CLA	C1D-ND	3.86	1.42	1.37
14	B	3017	CLA	C1D-ND	3.86	1.42	1.37
14	B	3003	CLA	C1D-ND	3.85	1.42	1.37
14	B	3013	CLA	C1D-ND	3.85	1.42	1.37
14	B	3015	CLA	C1D-ND	3.85	1.42	1.37
14	B	3022	CLA	C1D-ND	3.84	1.42	1.37
14	A	804	CLA	C1D-ND	3.84	1.42	1.37
14	B	3024	CLA	C1D-ND	3.82	1.42	1.37
14	J	102	CLA	C1D-ND	3.81	1.42	1.37
14	B	3005	CLA	C1D-ND	3.81	1.42	1.37
14	B	3037	CLA	C1D-ND	3.81	1.42	1.37
14	A	831	CLA	C1D-ND	3.80	1.42	1.37
14	A	838	CLA	C1D-ND	3.80	1.42	1.37
14	A	830	CLA	C1D-ND	3.79	1.42	1.37
14	A	814	CLA	C1D-ND	3.77	1.42	1.37
17	A	855	LMG	O7-C8	-3.77	1.40	1.47
16	A	847	BCR	C1-C6	-3.76	1.48	1.53
14	L	203	CLA	C1D-ND	3.76	1.42	1.37
14	X	1701	CLA	C1D-ND	3.76	1.42	1.37
14	B	3009	CLA	C1D-ND	3.75	1.42	1.37
14	B	3034	CLA	C1D-ND	3.75	1.42	1.37
14	B	3029	CLA	C1D-ND	3.75	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	813	CLA	C1D-ND	3.75	1.42	1.37
14	B	3008	CLA	C1D-ND	3.75	1.42	1.37
14	B	3019	CLA	C1D-ND	3.74	1.42	1.37
14	A	826	CLA	C1D-ND	3.73	1.42	1.37
14	B	3011	CLA	C1D-ND	3.72	1.42	1.37
16	J	103	BCR	C1-C6	-3.71	1.48	1.53
16	M	103	BCR	C1-C6	-3.71	1.48	1.53
14	A	833	CLA	C1D-ND	3.71	1.42	1.37
14	A	821	CLA	C1D-ND	3.71	1.42	1.37
16	B	3050	BCR	C30-C25	-3.70	1.48	1.53
15	A	846	PQN	C5-C4	-3.70	1.41	1.48
16	I	103	BCR	C1-C6	-3.70	1.48	1.53
14	L	205	CLA	C1D-ND	3.69	1.42	1.37
14	A	815	CLA	C1D-ND	3.69	1.42	1.37
14	B	3032	CLA	C1D-ND	3.68	1.42	1.37
16	L	207	BCR	C1-C6	-3.67	1.48	1.53
14	A	805	CLA	C1D-ND	3.66	1.42	1.37
14	A	817	CLA	C1D-ND	3.65	1.42	1.37
14	B	3023	CLA	C1D-ND	3.63	1.42	1.37
14	B	3020	CLA	C1D-ND	3.63	1.42	1.37
16	A	851	BCR	C1-C6	-3.60	1.48	1.53
14	K	101	CLA	C1D-ND	3.59	1.42	1.37
14	A	809	CLA	C1D-ND	3.58	1.42	1.37
16	J	104	BCR	C1-C6	-3.58	1.48	1.53
14	A	835	CLA	C1D-ND	3.58	1.42	1.37
14	A	827	CLA	C1D-ND	3.57	1.42	1.37
14	A	803	CLA	C1D-ND	3.56	1.42	1.37
14	A	844	CLA	C1D-ND	3.56	1.42	1.37
14	A	811	CLA	C1D-ND	3.55	1.42	1.37
14	A	828	CLA	CHC-C1C	3.55	1.44	1.35
16	B	3044	BCR	C1-C6	-3.55	1.48	1.53
14	A	809	CLA	CHC-C1C	3.54	1.44	1.35
16	B	3050	BCR	C1-C6	-3.53	1.48	1.53
14	A	834	CLA	C1D-ND	3.53	1.42	1.37
14	B	3041	CLA	C1D-ND	3.52	1.42	1.37
14	B	3004	CLA	CHC-C1C	3.52	1.44	1.35
16	I	105	BCR	C1-C6	-3.52	1.48	1.53
15	B	3042	PQN	C5-C4	-3.52	1.41	1.48
14	B	3011	CLA	C4D-ND	-3.51	1.32	1.37
17	I	104	LMG	C7-C8	3.49	1.61	1.50
13	A	801	CL0	C1D-ND	3.47	1.42	1.37
14	B	3041	CLA	C4D-ND	-3.47	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	803	CLA	CHC-C1C	3.46	1.43	1.35
14	A	821	CLA	CHC-C1C	3.45	1.43	1.35
16	F	203	BCR	C1-C6	-3.45	1.49	1.53
14	A	825	CLA	CHC-C1C	3.44	1.43	1.35
16	A	848	BCR	C1-C6	-3.44	1.49	1.53
14	B	3004	CLA	C1D-ND	3.44	1.42	1.37
16	F	201	BCR	C1-C6	-3.43	1.49	1.53
14	A	842	CLA	C4D-ND	-3.43	1.33	1.37
16	A	849	BCR	C1-C6	-3.42	1.49	1.53
14	B	3011	CLA	CHC-C1C	3.41	1.43	1.35
14	K	101	CLA	CHC-C1C	3.40	1.43	1.35
14	A	856	CLA	C1D-ND	3.39	1.41	1.37
14	A	819	CLA	CHC-C1C	3.38	1.43	1.35
14	B	3013	CLA	CHC-C1C	3.38	1.43	1.35
14	A	844	CLA	C4D-ND	-3.37	1.33	1.37
14	I	101	CLA	C4D-ND	-3.36	1.33	1.37
16	B	3047	BCR	C1-C6	-3.35	1.49	1.53
14	B	3037	CLA	CHC-C1C	3.35	1.43	1.35
14	B	3024	CLA	C4D-ND	-3.34	1.33	1.37
14	J	101	CLA	CHC-C1C	3.34	1.43	1.35
16	B	3043	BCR	C1-C6	-3.34	1.49	1.53
14	A	839	CLA	CHC-C1C	3.34	1.43	1.35
14	B	3018	CLA	CHC-C1C	3.33	1.43	1.35
14	B	3039	CLA	CHC-C1C	3.33	1.43	1.35
16	F	201	BCR	C30-C25	-3.33	1.49	1.53
14	A	833	CLA	C4D-ND	-3.33	1.33	1.37
14	A	822	CLA	CHC-C1C	3.33	1.43	1.35
14	B	3027	CLA	CHC-C1C	3.33	1.43	1.35
14	A	827	CLA	CHC-C1C	3.32	1.43	1.35
14	A	824	CLA	CHC-C1C	3.31	1.43	1.35
15	B	3042	PQN	C10-C1	-3.31	1.41	1.48
14	A	843	CLA	CHC-C1C	3.31	1.43	1.35
16	B	3045	BCR	C1-C6	-3.31	1.49	1.53
14	A	818	CLA	CHC-C1C	3.30	1.43	1.35
14	B	3024	CLA	CHC-C1C	3.30	1.43	1.35
15	A	846	PQN	C2-C1	-3.29	1.40	1.48
14	B	3019	CLA	CHC-C1C	3.28	1.43	1.35
14	F	202	CLA	CHC-C1C	3.28	1.43	1.35
14	B	3030	CLA	CHC-C1C	3.28	1.43	1.35
14	A	817	CLA	CHC-C1C	3.28	1.43	1.35
14	M	102	CLA	C1D-ND	3.27	1.41	1.37
14	A	837	CLA	CHC-C1C	3.27	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	830	CLA	CHC-C1C	3.27	1.43	1.35
14	B	3025	CLA	CHC-C1C	3.26	1.43	1.35
14	A	819	CLA	C4D-ND	-3.26	1.33	1.37
16	A	848	BCR	C30-C25	-3.26	1.49	1.53
14	B	3014	CLA	CHC-C1C	3.26	1.43	1.35
14	A	804	CLA	CHC-C1C	3.25	1.43	1.35
14	A	835	CLA	CHC-C1C	3.25	1.43	1.35
14	A	835	CLA	C4D-ND	-3.25	1.33	1.37
14	A	805	CLA	CHC-C1C	3.25	1.43	1.35
14	A	808	CLA	CHC-C1C	3.24	1.43	1.35
14	B	3039	CLA	C4D-ND	-3.24	1.33	1.37
14	B	3031	CLA	CHC-C1C	3.22	1.43	1.35
14	B	3036	CLA	CHC-C1C	3.21	1.43	1.35
14	A	814	CLA	CHC-C1C	3.21	1.43	1.35
14	B	3041	CLA	CHC-C1C	3.21	1.43	1.35
14	B	3010	CLA	C4D-ND	-3.20	1.33	1.37
14	K	103	CLA	CHC-C1C	3.20	1.43	1.35
14	L	205	CLA	CHC-C1C	3.20	1.43	1.35
15	A	846	PQN	C3-C2	3.19	1.41	1.35
14	A	807	CLA	CHC-C1C	3.19	1.43	1.35
14	A	838	CLA	CHC-C1C	3.19	1.43	1.35
14	J	102	CLA	CHC-C1C	3.19	1.43	1.35
14	A	836	CLA	CHC-C1C	3.19	1.43	1.35
14	A	841	CLA	CHC-C1C	3.18	1.43	1.35
14	L	205	CLA	C4D-ND	-3.18	1.33	1.37
14	B	3038	CLA	CHC-C1C	3.17	1.43	1.35
14	A	832	CLA	C4D-ND	-3.17	1.33	1.37
14	L	204	CLA	CHC-C1C	3.16	1.43	1.35
14	B	3010	CLA	CMB-C2B	-3.16	1.45	1.51
14	A	833	CLA	CHC-C1C	3.15	1.43	1.35
14	B	3019	CLA	C4D-ND	-3.15	1.33	1.37
14	A	826	CLA	CHC-C1C	3.15	1.43	1.35
14	M	102	CLA	CHC-C1C	3.14	1.43	1.35
14	B	3017	CLA	CHC-C1C	3.14	1.43	1.35
14	A	842	CLA	CHC-C1C	3.14	1.43	1.35
13	A	801	CL0	CHC-C1C	3.14	1.43	1.35
14	B	3003	CLA	CHC-C1C	3.14	1.43	1.35
14	L	204	CLA	C4D-ND	-3.13	1.33	1.37
14	A	820	CLA	CHC-C1C	3.13	1.43	1.35
14	A	829	CLA	CHC-C1C	3.12	1.43	1.35
14	B	3022	CLA	CHC-C1C	3.12	1.43	1.35
14	A	827	CLA	C4D-ND	-3.12	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	815	CLA	CHC-C1C	3.12	1.43	1.35
14	B	3018	CLA	C4D-ND	-3.12	1.33	1.37
14	A	834	CLA	CHC-C1C	3.11	1.42	1.35
14	B	3015	CLA	CHC-C1C	3.11	1.42	1.35
14	A	802	CLA	C4D-ND	-3.11	1.33	1.37
14	B	3034	CLA	CHC-C1C	3.11	1.42	1.35
16	J	104	BCR	C30-C25	-3.10	1.49	1.53
14	X	1701	CLA	CHC-C1C	3.10	1.42	1.35
16	K	102	BCR	C1-C6	-3.09	1.49	1.53
14	A	806	CLA	CHC-C1C	3.09	1.42	1.35
14	B	3040	CLA	CHC-C1C	3.09	1.42	1.35
14	A	823	CLA	CHC-C1C	3.09	1.42	1.35
14	B	3010	CLA	C1D-ND	3.09	1.41	1.37
14	B	3007	CLA	C4D-ND	-3.09	1.33	1.37
14	A	813	CLA	CHC-C1C	3.08	1.42	1.35
16	J	105	BCR	C1-C6	-3.08	1.49	1.53
14	A	840	CLA	CHC-C1C	3.08	1.42	1.35
14	A	802	CLA	CHC-C1C	3.08	1.42	1.35
16	M	103	BCR	C30-C25	-3.07	1.49	1.53
16	J	105	BCR	C30-C25	-3.07	1.49	1.53
15	B	3042	PQN	C2-C1	-3.07	1.41	1.48
14	B	3037	CLA	C4D-ND	-3.06	1.33	1.37
14	A	824	CLA	C4D-ND	-3.05	1.33	1.37
14	A	836	CLA	C4D-ND	-3.05	1.33	1.37
14	X	1701	CLA	C4D-ND	-3.05	1.33	1.37
14	A	806	CLA	C4D-ND	-3.05	1.33	1.37
14	A	856	CLA	CHC-C1C	3.05	1.42	1.35
14	B	3012	CLA	CHC-C1C	3.04	1.42	1.35
14	A	811	CLA	CHC-C1C	3.04	1.42	1.35
14	B	3029	CLA	C4D-ND	-3.04	1.33	1.37
14	B	3035	CLA	CHC-C1C	3.04	1.42	1.35
15	B	3042	PQN	C3-C2	3.04	1.40	1.35
14	B	3032	CLA	CHC-C1C	3.03	1.42	1.35
14	A	831	CLA	CHC-C1C	3.03	1.42	1.35
14	B	3020	CLA	CHC-C1C	3.02	1.42	1.35
14	A	844	CLA	CHC-C1C	3.02	1.42	1.35
14	B	3031	CLA	C4D-ND	-3.02	1.33	1.37
14	B	3006	CLA	CHC-C1C	3.01	1.42	1.35
14	B	3029	CLA	CHC-C1C	3.01	1.42	1.35
16	B	3046	BCR	C1-C6	-3.00	1.49	1.53
16	B	3046	BCR	C30-C25	-3.00	1.49	1.53
14	A	832	CLA	CHC-C1C	3.00	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	A	850	BCR	C1-C6	-3.00	1.49	1.53
14	B	3026	CLA	CHC-C1C	3.00	1.42	1.35
14	B	3012	CLA	C4D-ND	-2.99	1.33	1.37
14	A	816	CLA	CHC-C1C	2.99	1.42	1.35
16	A	847	BCR	C30-C25	-2.99	1.49	1.53
14	F	202	CLA	C4D-ND	-2.98	1.33	1.37
14	A	815	CLA	C4D-ND	-2.98	1.33	1.37
14	A	812	CLA	CHC-C1C	2.98	1.42	1.35
14	A	810	CLA	CHC-C1C	2.97	1.42	1.35
14	B	3008	CLA	CHC-C1C	2.97	1.42	1.35
16	F	203	BCR	C30-C25	-2.97	1.49	1.53
14	A	811	CLA	C4D-ND	-2.97	1.33	1.37
14	A	837	CLA	C4D-ND	-2.97	1.33	1.37
14	B	3020	CLA	C4D-ND	-2.96	1.33	1.37
14	A	839	CLA	C4D-ND	-2.96	1.33	1.37
14	A	820	CLA	C4D-ND	-2.96	1.33	1.37
14	A	826	CLA	C4D-ND	-2.96	1.33	1.37
14	B	3021	CLA	CHC-C1C	2.95	1.42	1.35
14	B	3016	CLA	CHC-C1C	2.95	1.42	1.35
14	A	822	CLA	C4D-ND	-2.94	1.33	1.37
14	A	809	CLA	C4D-ND	-2.94	1.33	1.37
16	I	105	BCR	C30-C25	-2.94	1.49	1.53
15	A	846	PQN	C3-C4	-2.93	1.39	1.47
18	B	3049	LHG	P-O6	2.93	1.71	1.59
14	B	3010	CLA	CHC-C1C	2.93	1.42	1.35
14	A	840	CLA	C4D-ND	-2.93	1.33	1.37
14	B	3007	CLA	CHC-C1C	2.93	1.42	1.35
14	A	856	CLA	C4D-ND	-2.93	1.33	1.37
14	A	845	CLA	CHC-C1C	2.92	1.42	1.35
15	B	3042	PQN	C3-C4	-2.92	1.39	1.47
16	I	103	BCR	C30-C25	-2.92	1.49	1.53
16	A	850	BCR	C30-C25	-2.92	1.49	1.53
14	B	3014	CLA	C4D-ND	-2.91	1.33	1.37
14	K	101	CLA	C4D-ND	-2.91	1.33	1.37
14	B	3023	CLA	CHC-C1C	2.91	1.42	1.35
14	A	821	CLA	C4D-ND	-2.91	1.33	1.37
16	L	207	BCR	C30-C25	-2.91	1.49	1.53
14	A	813	CLA	C4D-ND	-2.90	1.33	1.37
14	A	814	CLA	C4D-ND	-2.90	1.33	1.37
14	B	3040	CLA	C4D-ND	-2.89	1.33	1.37
14	B	3013	CLA	C4D-ND	-2.89	1.33	1.37
14	A	804	CLA	C4D-ND	-2.89	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	828	CLA	C4D-ND	-2.88	1.33	1.37
14	B	3022	CLA	C4D-ND	-2.88	1.33	1.37
14	B	3005	CLA	CHC-C1C	2.88	1.42	1.35
14	A	829	CLA	C4D-ND	-2.86	1.33	1.37
14	B	3033	CLA	CHC-C1C	2.86	1.42	1.35
14	B	3009	CLA	CHC-C1C	2.86	1.42	1.35
14	B	3017	CLA	C4D-ND	-2.86	1.33	1.37
14	A	831	CLA	CMB-C2B	-2.86	1.45	1.51
18	A	854	LHG	P-O6	2.85	1.70	1.59
14	B	3028	CLA	CHC-C1C	2.85	1.42	1.35
14	B	3006	CLA	C4D-ND	-2.85	1.33	1.37
14	B	3036	CLA	C4D-ND	-2.85	1.33	1.37
14	B	3028	CLA	C4D-ND	-2.85	1.33	1.37
16	I	102	BCR	C30-C25	-2.85	1.49	1.53
14	A	825	CLA	C4D-ND	-2.84	1.33	1.37
16	J	103	BCR	C30-C25	-2.84	1.49	1.53
14	B	3033	CLA	C4D-ND	-2.83	1.33	1.37
14	L	203	CLA	C4D-ND	-2.83	1.33	1.37
14	B	3023	CLA	C4D-ND	-2.82	1.33	1.37
14	B	3009	CLA	C4D-ND	-2.81	1.33	1.37
14	L	204	CLA	C1D-ND	2.81	1.41	1.37
14	I	101	CLA	CHC-C1C	2.81	1.42	1.35
14	A	831	CLA	C4D-ND	-2.81	1.33	1.37
14	B	3027	CLA	C4D-ND	-2.80	1.33	1.37
13	A	801	CL0	CMB-C2B	-2.80	1.45	1.51
16	B	3044	BCR	C30-C25	-2.80	1.49	1.53
14	K	103	CLA	C4D-ND	-2.79	1.33	1.37
14	L	203	CLA	CHC-C1C	2.78	1.42	1.35
14	B	3026	CLA	C4D-ND	-2.77	1.33	1.37
14	A	834	CLA	C4D-ND	-2.77	1.33	1.37
16	I	102	BCR	C1-C6	-2.77	1.50	1.53
14	B	3025	CLA	C4D-ND	-2.76	1.33	1.37
14	A	808	CLA	C4D-ND	-2.76	1.33	1.37
14	A	818	CLA	C4D-ND	-2.74	1.33	1.37
14	B	3015	CLA	C4D-ND	-2.74	1.33	1.37
16	B	3045	BCR	C30-C25	-2.74	1.50	1.53
16	B	3043	BCR	C30-C25	-2.73	1.50	1.53
14	A	841	CLA	C4D-ND	-2.73	1.33	1.37
14	A	830	CLA	C4D-ND	-2.73	1.33	1.37
14	B	3008	CLA	C4D-ND	-2.73	1.33	1.37
14	A	845	CLA	C4D-ND	-2.73	1.33	1.37
14	B	3038	CLA	C4D-ND	-2.73	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	J	102	CLA	C4D-ND	-2.72	1.34	1.37
14	A	807	CLA	C4D-ND	-2.71	1.34	1.37
14	B	3030	CLA	C4D-ND	-2.71	1.34	1.37
14	A	803	CLA	C4D-ND	-2.68	1.34	1.37
14	B	3035	CLA	C4D-ND	-2.68	1.34	1.37
14	A	805	CLA	C4D-ND	-2.67	1.34	1.37
14	B	3034	CLA	C4D-ND	-2.66	1.34	1.37
14	A	823	CLA	C4D-ND	-2.65	1.34	1.37
14	A	810	CLA	C4D-ND	-2.64	1.34	1.37
14	B	3004	CLA	C4D-ND	-2.64	1.34	1.37
14	A	816	CLA	C4D-ND	-2.64	1.34	1.37
14	F	202	CLA	CMB-C2B	-2.64	1.46	1.51
14	B	3003	CLA	CMB-C2B	-2.63	1.46	1.51
17	I	104	LMG	C4-C5	2.62	1.58	1.53
14	B	3021	CLA	C4D-ND	-2.62	1.34	1.37
13	A	801	CL0	C4D-ND	-2.61	1.34	1.37
14	A	817	CLA	C4D-ND	-2.60	1.34	1.37
14	A	820	CLA	CMC-C2C	-2.59	1.45	1.50
14	A	843	CLA	C4D-ND	-2.59	1.34	1.37
14	B	3023	CLA	CMB-C2B	-2.59	1.46	1.51
16	K	102	BCR	C30-C25	-2.59	1.50	1.53
14	A	838	CLA	C4D-ND	-2.58	1.34	1.37
14	A	819	CLA	CMB-C2B	-2.58	1.46	1.51
14	B	3007	CLA	CMB-C2B	-2.56	1.46	1.51
14	B	3020	CLA	CMB-C2B	-2.56	1.46	1.51
17	I	104	LMG	O1-C1	2.56	1.44	1.40
14	B	3032	CLA	CMB-C2B	-2.56	1.46	1.51
16	A	849	BCR	C30-C25	-2.56	1.50	1.53
14	A	834	CLA	CMB-C2B	-2.54	1.46	1.51
14	L	203	CLA	CMB-C2B	-2.54	1.46	1.51
14	L	205	CLA	CMB-C2B	-2.53	1.46	1.51
14	B	3016	CLA	C4D-ND	-2.53	1.34	1.37
14	L	204	CLA	CMB-C2B	-2.53	1.46	1.51
14	A	812	CLA	C4D-ND	-2.53	1.34	1.37
14	J	101	CLA	C4D-ND	-2.52	1.34	1.37
14	M	102	CLA	C4D-ND	-2.52	1.34	1.37
14	B	3021	CLA	CMB-C2B	-2.51	1.46	1.51
14	B	3025	CLA	CMB-C2B	-2.51	1.46	1.51
14	B	3003	CLA	C4D-ND	-2.51	1.34	1.37
17	A	852	LMG	C7-C8	2.50	1.58	1.50
14	X	1701	CLA	CMB-C2B	-2.50	1.46	1.51
14	A	821	CLA	CMB-C2B	-2.50	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	3026	CLA	CMB-C2B	-2.50	1.46	1.51
14	A	817	CLA	CMB-C2B	-2.49	1.46	1.51
14	A	836	CLA	CMB-C2B	-2.48	1.46	1.51
14	A	811	CLA	CMB-C2B	-2.48	1.46	1.51
14	B	3032	CLA	C4D-ND	-2.48	1.34	1.37
14	I	101	CLA	C1B-NB	2.48	1.37	1.35
14	A	815	CLA	CMB-C2B	-2.47	1.46	1.51
14	M	102	CLA	CMB-C2B	-2.47	1.46	1.51
14	A	844	CLA	CMB-C2B	-2.47	1.46	1.51
14	B	3035	CLA	CMB-C2B	-2.46	1.46	1.51
14	A	833	CLA	CMB-C2B	-2.45	1.46	1.51
14	B	3012	CLA	CMB-C2B	-2.45	1.46	1.51
13	A	801	CL0	CMD-C2D	-2.45	1.45	1.50
14	A	807	CLA	CMB-C2B	-2.44	1.46	1.51
14	B	3006	CLA	CMB-C2B	-2.44	1.46	1.51
21	L	201	LMT	O3B-C3B	-2.44	1.37	1.43
14	B	3034	CLA	CMB-C2B	-2.43	1.46	1.51
14	A	812	CLA	CMB-C2B	-2.43	1.46	1.51
14	B	3033	CLA	CMB-C2B	-2.43	1.46	1.51
14	A	845	CLA	CMB-C2B	-2.43	1.46	1.51
14	A	805	CLA	CMB-C2B	-2.43	1.46	1.51
16	B	3047	BCR	C30-C25	-2.43	1.50	1.53
14	B	3004	CLA	CMB-C2B	-2.43	1.46	1.51
14	A	826	CLA	CMB-C2B	-2.42	1.46	1.51
14	A	803	CLA	CMB-C2B	-2.42	1.46	1.51
14	A	810	CLA	CMB-C2B	-2.42	1.46	1.51
14	B	3030	CLA	CMB-C2B	-2.42	1.46	1.51
14	B	3022	CLA	CMB-C2B	-2.42	1.46	1.51
14	A	856	CLA	CMB-C2B	-2.41	1.46	1.51
22	L	206	DGD	O2G-C2G	-2.40	1.40	1.46
14	B	3038	CLA	CMB-C2B	-2.40	1.46	1.51
14	A	808	CLA	CMB-C2B	-2.40	1.46	1.51
14	B	3016	CLA	CMB-C2B	-2.40	1.46	1.51
14	A	806	CLA	CMB-C2B	-2.39	1.46	1.51
14	A	840	CLA	CMB-C2B	-2.39	1.46	1.51
14	B	3024	CLA	CMB-C2B	-2.39	1.46	1.51
14	B	3005	CLA	C4D-ND	-2.39	1.34	1.37
14	A	843	CLA	CMB-C2B	-2.39	1.46	1.51
14	A	814	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	3028	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	3036	CLA	CMB-C2B	-2.38	1.46	1.51
14	B	3040	CLA	CMB-C2B	-2.38	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	3039	CLA	CMB-C2B	-2.37	1.46	1.51
14	A	820	CLA	CMB-C2B	-2.37	1.46	1.51
14	A	832	CLA	CMB-C2B	-2.37	1.46	1.51
14	B	3017	CLA	CMB-C2B	-2.37	1.46	1.51
14	A	830	CLA	CMB-C2B	-2.36	1.46	1.51
14	B	3013	CLA	CMB-C2B	-2.36	1.46	1.51
16	B	3044	BCR	C33-C5	-2.36	1.47	1.50
14	A	838	CLA	CMB-C2B	-2.35	1.46	1.51
14	B	3019	CLA	CMB-C2B	-2.35	1.46	1.51
14	B	3010	CLA	C3B-C2B	-2.35	1.37	1.40
14	B	3037	CLA	CMB-C2B	-2.34	1.46	1.51
14	A	802	CLA	CMB-C2B	-2.34	1.46	1.51
14	A	827	CLA	CMD-C2D	-2.34	1.45	1.50
14	A	818	CLA	CMB-C2B	-2.34	1.46	1.51
14	B	3031	CLA	CMB-C2B	-2.34	1.46	1.51
14	B	3009	CLA	CMB-C2B	-2.33	1.46	1.51
16	F	203	BCR	C33-C5	-2.33	1.47	1.50
14	B	3005	CLA	CMB-C2B	-2.33	1.46	1.51
14	A	823	CLA	CMB-C2B	-2.32	1.46	1.51
14	J	102	CLA	CMB-C2B	-2.32	1.46	1.51
14	B	3027	CLA	CMB-C2B	-2.32	1.46	1.51
14	A	804	CLA	CMB-C2B	-2.32	1.46	1.51
14	B	3041	CLA	CMB-C2B	-2.32	1.46	1.51
16	I	105	BCR	C33-C5	-2.32	1.47	1.50
14	A	837	CLA	CMB-C2B	-2.31	1.46	1.51
21	L	201	LMT	O2B-C2B	-2.31	1.37	1.43
14	A	816	CLA	CMB-C2B	-2.30	1.46	1.51
14	A	813	CLA	CMB-C2B	-2.30	1.46	1.51
16	A	851	BCR	C30-C25	-2.30	1.50	1.53
16	J	104	BCR	C33-C5	-2.30	1.47	1.50
16	B	3043	BCR	C33-C5	-2.29	1.47	1.50
14	B	3014	CLA	CMB-C2B	-2.29	1.46	1.51
16	J	105	BCR	C33-C5	-2.29	1.47	1.50
14	B	3015	CLA	CMB-C2B	-2.28	1.46	1.51
14	A	822	CLA	CMB-C2B	-2.28	1.46	1.51
14	M	102	CLA	CMD-C2D	-2.28	1.46	1.50
14	B	3007	CLA	C3B-C2B	-2.28	1.37	1.40
14	B	3018	CLA	CMB-C2B	-2.27	1.46	1.51
14	K	103	CLA	CMB-C2B	-2.27	1.46	1.51
14	J	101	CLA	CMB-C2B	-2.27	1.46	1.51
16	M	103	BCR	C33-C5	-2.27	1.47	1.50
14	B	3008	CLA	CMB-C2B	-2.26	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	A	851	BCR	C33-C5	-2.26	1.47	1.50
14	A	842	CLA	CMB-C2B	-2.26	1.46	1.51
14	B	3029	CLA	CMB-C2B	-2.25	1.47	1.51
14	B	3011	CLA	MG-ND	-2.25	2.01	2.05
14	I	101	CLA	CMB-C2B	-2.25	1.47	1.51
16	F	201	BCR	C33-C5	-2.25	1.47	1.50
16	A	847	BCR	C33-C5	-2.25	1.47	1.50
16	A	849	BCR	C33-C5	-2.25	1.47	1.50
14	K	101	CLA	CMB-C2B	-2.25	1.47	1.51
14	A	827	CLA	CMB-C2B	-2.24	1.47	1.51
14	A	824	CLA	CMB-C2B	-2.24	1.47	1.51
14	M	102	CLA	MG-ND	-2.24	2.01	2.05
14	B	3004	CLA	CMD-C2D	-2.23	1.46	1.50
14	A	809	CLA	CMB-C2B	-2.23	1.47	1.51
14	B	3003	CLA	CMD-C2D	-2.23	1.46	1.50
16	A	850	BCR	C33-C5	-2.22	1.47	1.50
14	A	825	CLA	CMB-C2B	-2.21	1.47	1.51
16	J	103	BCR	C33-C5	-2.21	1.47	1.50
16	L	207	BCR	C33-C5	-2.21	1.47	1.50
16	B	3046	BCR	C33-C5	-2.21	1.47	1.50
16	A	848	BCR	C33-C5	-2.20	1.47	1.50
14	A	828	CLA	CMB-C2B	-2.20	1.47	1.51
21	L	201	LMT	O3'-C3'	-2.20	1.37	1.43
14	A	839	CLA	CMB-C2B	-2.20	1.47	1.51
14	A	819	CLA	C3B-CAB	-2.20	1.43	1.47
17	I	104	LMG	C9-C8	2.20	1.57	1.50
14	A	829	CLA	CMB-C2B	-2.19	1.47	1.51
16	I	102	BCR	C33-C5	-2.19	1.47	1.50
16	B	3045	BCR	C33-C5	-2.19	1.47	1.50
14	K	101	CLA	CBD-CAD	2.19	1.56	1.51
14	A	803	CLA	CMD-C2D	-2.18	1.46	1.50
16	B	3050	BCR	C33-C5	-2.18	1.47	1.50
17	A	855	LMG	C7-C8	2.18	1.55	1.50
16	B	3047	BCR	C33-C5	-2.18	1.47	1.50
14	B	3020	CLA	CMC-C2C	-2.18	1.46	1.50
16	K	102	BCR	C33-C5	-2.17	1.47	1.50
14	B	3008	CLA	CMD-C2D	-2.17	1.46	1.50
14	B	3023	CLA	CMD-C2D	-2.16	1.46	1.50
14	A	841	CLA	CMB-C2B	-2.16	1.47	1.51
14	J	102	CLA	CBD-CAD	2.15	1.56	1.51
14	B	3009	CLA	CMD-C2D	-2.15	1.46	1.50
14	B	3010	CLA	MG-ND	-2.15	2.01	2.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B	3004	CLA	MG-ND	-2.14	2.01	2.05
16	I	103	BCR	C33-C5	-2.14	1.47	1.50
22	L	206	DGD	O5D-C6D	-2.12	1.39	1.43
21	L	201	LMT	O2'-C2'	-2.12	1.38	1.43
14	M	102	CLA	MG-NC	2.12	2.11	2.06
14	B	3010	CLA	C3B-CAB	-2.12	1.43	1.47
14	A	805	CLA	CMD-C2D	-2.11	1.46	1.50
18	B	3049	LHG	C6-C5	2.10	1.57	1.50
14	B	3005	CLA	CMD-C2D	-2.10	1.46	1.50
18	A	853	LHG	P-O6	2.10	1.67	1.59
14	L	203	CLA	C3B-C2B	-2.10	1.37	1.40
14	A	807	CLA	C3B-C2B	-2.10	1.37	1.40
14	L	203	CLA	C4B-CHC	-2.10	1.35	1.41
14	A	835	CLA	CMB-C2B	-2.09	1.47	1.51
14	A	842	CLA	CMC-C2C	-2.09	1.46	1.50
22	L	206	DGD	C3D-C2D	2.09	1.57	1.52
21	L	201	LMT	O4'-C4B	-2.08	1.38	1.43
14	B	3041	CLA	CMD-C2D	-2.08	1.46	1.50
22	L	206	DGD	C6D-C5D	2.08	1.58	1.51
14	A	813	CLA	CMD-C2D	-2.08	1.46	1.50
14	A	839	CLA	CMC-C2C	-2.08	1.46	1.50
14	B	3009	CLA	C3B-C2B	-2.07	1.37	1.40
14	B	3024	CLA	CMC-C2C	-2.07	1.46	1.50
14	A	811	CLA	CMD-C2D	-2.06	1.46	1.50
14	B	3020	CLA	CMD-C2D	-2.06	1.46	1.50
14	A	814	CLA	CMD-C2D	-2.05	1.46	1.50
14	B	3021	CLA	C3B-C2B	-2.05	1.37	1.40
14	A	819	CLA	CMD-C2D	-2.04	1.46	1.50
14	B	3012	CLA	CMD-C2D	-2.04	1.46	1.50
14	B	3028	CLA	CMD-C2D	-2.04	1.46	1.50
14	A	834	CLA	C3B-C2B	-2.04	1.37	1.40
22	L	206	DGD	C4D-C3D	2.04	1.57	1.52
14	X	1701	CLA	CMD-C2D	-2.04	1.46	1.50
14	A	819	CLA	CMC-C2C	-2.03	1.46	1.50
14	A	838	CLA	CMD-C2D	-2.03	1.46	1.50
14	A	856	CLA	CMD-C2D	-2.03	1.46	1.50
14	A	844	CLA	CMD-C2D	-2.03	1.46	1.50
14	B	3029	CLA	CMD-C2D	-2.03	1.46	1.50
14	K	103	CLA	C3B-CAB	-2.02	1.43	1.47
18	M	101	LHG	P-O6	2.02	1.67	1.59
14	A	804	CLA	CMC-C2C	-2.02	1.46	1.50
14	A	839	CLA	CMD-C2D	-2.02	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	A	833	CLA	CMC-C2C	-2.02	1.46	1.50
14	B	3011	CLA	CMD-C2D	-2.02	1.46	1.50
14	A	802	CLA	C3B-CAB	-2.02	1.43	1.47
14	A	832	CLA	CMC-C2C	-2.01	1.46	1.50
14	B	3037	CLA	C3B-C2B	-2.01	1.37	1.40
14	A	802	CLA	C3B-C2B	-2.01	1.37	1.40
14	B	3024	CLA	O2A-CGA	2.01	1.37	1.30
14	B	3029	CLA	MG-ND	-2.01	2.01	2.05
14	B	3024	CLA	C3B-CAB	-2.01	1.43	1.47
14	A	810	CLA	CMD-C2D	-2.01	1.46	1.50
14	A	812	CLA	CMD-C2D	-2.00	1.46	1.50
14	B	3004	CLA	C3B-CAB	-2.00	1.43	1.47
14	B	3035	CLA	O2A-CGA	2.00	1.37	1.30

All (969) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3033	CLA	C4A-NA-C1A	7.73	110.18	106.71
14	A	842	CLA	C4A-NA-C1A	7.71	110.17	106.71
14	I	101	CLA	C4A-NA-C1A	7.61	110.13	106.71
14	A	816	CLA	C4A-NA-C1A	7.55	110.10	106.71
14	B	3005	CLA	C4A-NA-C1A	7.50	110.08	106.71
14	A	820	CLA	C4A-NA-C1A	7.47	110.06	106.71
14	B	3031	CLA	C4A-NA-C1A	7.43	110.05	106.71
14	L	204	CLA	C4A-NA-C1A	7.40	110.03	106.71
14	B	3041	CLA	C4A-NA-C1A	7.38	110.03	106.71
14	B	3003	CLA	C4A-NA-C1A	7.35	110.01	106.71
14	L	205	CLA	C4A-NA-C1A	7.34	110.00	106.71
14	L	203	CLA	C4A-NA-C1A	7.32	110.00	106.71
14	A	845	CLA	C4A-NA-C1A	7.31	109.99	106.71
14	A	806	CLA	C4A-NA-C1A	7.18	109.94	106.71
14	B	3006	CLA	C4A-NA-C1A	7.18	109.93	106.71
14	B	3009	CLA	C4A-NA-C1A	7.13	109.91	106.71
14	A	832	CLA	C4A-NA-C1A	6.96	109.83	106.71
14	A	840	CLA	C4A-NA-C1A	6.95	109.83	106.71
14	B	3008	CLA	C4A-NA-C1A	6.90	109.81	106.71
14	A	833	CLA	C4A-NA-C1A	6.86	109.79	106.71
14	A	834	CLA	C4A-NA-C1A	6.86	109.79	106.71
14	A	831	CLA	C4A-NA-C1A	6.78	109.75	106.71
14	B	3007	CLA	C4A-NA-C1A	6.77	109.75	106.71
14	B	3029	CLA	C4A-NA-C1A	6.71	109.72	106.71
14	B	3016	CLA	C4A-NA-C1A	6.71	109.72	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	836	CLA	C4A-NA-C1A	6.68	109.71	106.71
14	A	841	CLA	C4A-NA-C1A	6.66	109.70	106.71
14	B	3040	CLA	C4A-NA-C1A	6.66	109.70	106.71
14	A	813	CLA	C4A-NA-C1A	6.64	109.69	106.71
14	A	829	CLA	C4A-NA-C1A	6.64	109.69	106.71
14	B	3025	CLA	C4A-NA-C1A	6.63	109.69	106.71
14	B	3017	CLA	C4A-NA-C1A	6.62	109.68	106.71
14	B	3013	CLA	C4A-NA-C1A	6.57	109.66	106.71
14	B	3035	CLA	C4A-NA-C1A	6.57	109.66	106.71
14	B	3012	CLA	C4A-NA-C1A	6.57	109.66	106.71
14	B	3022	CLA	C4A-NA-C1A	6.55	109.65	106.71
14	B	3036	CLA	C4A-NA-C1A	6.55	109.65	106.71
14	A	839	CLA	C4A-NA-C1A	6.53	109.64	106.71
14	B	3015	CLA	C4A-NA-C1A	6.53	109.64	106.71
14	A	808	CLA	C4A-NA-C1A	6.52	109.64	106.71
14	X	1701	CLA	C4A-NA-C1A	6.52	109.64	106.71
14	A	817	CLA	C4A-NA-C1A	6.51	109.64	106.71
13	A	801	CL0	C4A-NA-C1A	6.49	109.62	106.71
14	B	3026	CLA	C4A-NA-C1A	6.48	109.62	106.71
14	A	828	CLA	C4A-NA-C1A	6.47	109.61	106.71
14	B	3028	CLA	C4A-NA-C1A	6.47	109.61	106.71
14	B	3027	CLA	C4A-NA-C1A	6.39	109.58	106.71
14	A	823	CLA	C4A-NA-C1A	6.39	109.58	106.71
14	B	3020	CLA	C4A-NA-C1A	6.37	109.57	106.71
14	B	3038	CLA	C4A-NA-C1A	6.35	109.56	106.71
14	A	809	CLA	C4A-NA-C1A	6.33	109.55	106.71
14	A	843	CLA	C4A-NA-C1A	6.31	109.54	106.71
14	B	3039	CLA	C4A-NA-C1A	6.30	109.54	106.71
14	A	826	CLA	C4A-NA-C1A	6.29	109.53	106.71
14	B	3034	CLA	C4A-NA-C1A	6.29	109.53	106.71
14	A	812	CLA	C4A-NA-C1A	6.25	109.52	106.71
14	A	830	CLA	C4A-NA-C1A	6.24	109.51	106.71
14	A	837	CLA	C4A-NA-C1A	6.21	109.50	106.71
14	A	802	CLA	C4A-NA-C1A	6.20	109.49	106.71
14	B	3021	CLA	C4A-NA-C1A	6.11	109.45	106.71
14	A	805	CLA	C4A-NA-C1A	6.09	109.44	106.71
14	B	3037	CLA	C4A-NA-C1A	6.07	109.44	106.71
14	A	811	CLA	C4A-NA-C1A	6.05	109.42	106.71
14	B	3019	CLA	C4A-NA-C1A	6.02	109.41	106.71
14	B	3023	CLA	C4A-NA-C1A	6.01	109.41	106.71
14	A	803	CLA	C4A-NA-C1A	5.98	109.40	106.71
14	A	824	CLA	C4A-NA-C1A	5.97	109.39	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	810	CLA	C4A-NA-C1A	5.91	109.36	106.71
14	K	101	CLA	C4A-NA-C1A	5.91	109.36	106.71
14	A	856	CLA	C4A-NA-C1A	5.86	109.34	106.71
14	B	3011	CLA	C4A-NA-C1A	5.85	109.33	106.71
14	A	818	CLA	C4A-NA-C1A	5.83	109.33	106.71
14	A	815	CLA	C4A-NA-C1A	5.80	109.31	106.71
14	J	102	CLA	C4A-NA-C1A	5.80	109.31	106.71
14	B	3018	CLA	C4A-NA-C1A	5.77	109.30	106.71
14	A	825	CLA	C4A-NA-C1A	5.75	109.29	106.71
14	B	3024	CLA	C4A-NA-C1A	5.73	109.28	106.71
14	B	3010	CLA	C4A-NA-C1A	5.73	109.28	106.71
14	B	3032	CLA	C4A-NA-C1A	5.65	109.25	106.71
14	A	844	CLA	C4A-NA-C1A	5.57	109.21	106.71
14	A	827	CLA	C4A-NA-C1A	5.54	109.20	106.71
14	J	101	CLA	C4A-NA-C1A	5.53	109.19	106.71
14	A	814	CLA	C4A-NA-C1A	5.52	109.19	106.71
14	B	3030	CLA	C4A-NA-C1A	5.52	109.19	106.71
14	A	821	CLA	C4A-NA-C1A	5.52	109.19	106.71
14	A	807	CLA	C4A-NA-C1A	5.42	109.14	106.71
14	B	3014	CLA	C4A-NA-C1A	5.37	109.12	106.71
14	A	838	CLA	C4A-NA-C1A	5.26	109.07	106.71
14	A	804	CLA	C4A-NA-C1A	5.24	109.06	106.71
14	A	819	CLA	C4A-NA-C1A	4.94	108.93	106.71
14	A	822	CLA	C4A-NA-C1A	4.92	108.92	106.71
14	K	103	CLA	C4A-NA-C1A	4.62	108.78	106.71
14	B	3004	CLA	C4A-NA-C1A	4.51	108.73	106.71
14	A	844	CLA	CMB-C2B-C1B	-4.51	121.54	128.46
14	A	821	CLA	CMB-C2B-C1B	-4.46	121.61	128.46
14	B	3032	CLA	CMB-C2B-C1B	-4.44	121.64	128.46
14	A	835	CLA	C4A-NA-C1A	4.35	108.66	106.71
14	B	3010	CLA	CMB-C2B-C1B	-4.33	121.80	128.46
14	F	202	CLA	C4A-NA-C1A	4.32	108.65	106.71
18	A	854	LHG	O4-P-O5	4.29	133.44	112.24
14	A	822	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
14	B	3012	CLA	CMB-C2B-C1B	-4.25	121.93	128.46
18	A	853	LHG	O4-P-O5	4.23	133.17	112.24
18	M	101	LHG	O4-P-O5	4.21	133.05	112.24
14	A	819	CLA	CMB-C2B-C1B	-4.14	122.10	128.46
14	B	3004	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
14	L	203	CLA	C1-C2-C3	-4.10	118.96	126.04
14	L	205	CLA	CMB-C2B-C1B	-4.07	122.21	128.46
14	A	839	CLA	O2D-CGD-O1D	-4.06	115.90	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	839	CLA	O2D-CGD-CBD	4.05	118.46	111.27
18	B	3049	LHG	O4-P-O5	4.02	132.12	112.24
16	A	851	BCR	C2-C1-C6	4.02	116.67	110.48
16	K	102	BCR	C2-C1-C6	3.99	116.63	110.48
14	A	839	CLA	CMB-C2B-C1B	-3.95	122.40	128.46
14	A	838	CLA	CMB-C2B-C1B	-3.91	122.45	128.46
14	B	3030	CLA	CAA-C2A-C3A	-3.84	102.27	112.78
14	A	822	CLA	CMB-C2B-C3B	3.79	131.77	124.68
14	K	101	CLA	CMB-C2B-C1B	-3.79	122.64	128.46
18	A	854	LHG	O8-C23-C24	3.78	121.30	111.38
16	F	203	BCR	C35-C13-C14	-3.78	117.63	122.92
14	A	810	CLA	CMB-C2B-C1B	-3.74	122.71	128.46
14	L	204	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
14	A	803	CLA	CMB-C2B-C1B	-3.73	122.73	128.46
14	B	3018	CLA	CMB-C2B-C1B	-3.72	122.74	128.46
14	B	3023	CLA	CMB-C2B-C1B	-3.68	122.81	128.46
14	M	102	CLA	C4A-NA-C1A	3.67	108.36	106.71
14	A	821	CLA	CMB-C2B-C3B	3.65	131.51	124.68
14	A	831	CLA	CMB-C2B-C1B	-3.64	122.86	128.46
14	A	839	CLA	CMB-C2B-C3B	3.63	131.46	124.68
14	A	856	CLA	O2D-CGD-O1D	-3.60	116.79	123.84
14	X	1701	CLA	O2D-CGD-O1D	-3.60	116.80	123.84
22	L	206	DGD	O3G-C3G-C2G	-3.58	102.26	110.90
14	B	3039	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
14	L	205	CLA	CMB-C2B-C3B	3.57	131.36	124.68
14	B	3012	CLA	CMB-C2B-C3B	3.57	131.36	124.68
14	A	856	CLA	CMB-C2B-C1B	-3.57	122.98	128.46
14	A	819	CLA	CMB-C2B-C3B	3.57	131.35	124.68
14	B	3032	CLA	CMB-C2B-C3B	3.55	131.33	124.68
14	B	3031	CLA	O2D-CGD-O1D	-3.55	116.90	123.84
14	A	817	CLA	CMB-C2B-C1B	-3.55	123.02	128.46
14	M	102	CLA	C2D-C1D-ND	-3.54	107.50	110.10
14	A	804	CLA	CMB-C2B-C1B	-3.54	123.03	128.46
16	I	103	BCR	C15-C16-C17	-3.53	116.25	123.47
14	B	3034	CLA	CMB-C2B-C1B	-3.51	123.06	128.46
14	B	3004	CLA	CMB-C2B-C3B	3.51	131.24	124.68
14	A	818	CLA	O2D-CGD-O1D	-3.50	117.00	123.84
14	B	3011	CLA	CMB-C2B-C1B	-3.49	123.10	128.46
14	A	820	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
14	A	837	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
14	B	3019	CLA	CMB-C2B-C1B	-3.45	123.16	128.46
14	A	824	CLA	CMB-C2B-C1B	-3.44	123.17	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3005	CLA	O2D-CGD-O1D	-3.43	117.13	123.84
14	B	3018	CLA	CMB-C2B-C3B	3.43	131.09	124.68
14	B	3020	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
14	K	101	CLA	CMB-C2B-C3B	3.42	131.07	124.68
14	K	103	CLA	O2D-CGD-O1D	-3.40	117.19	123.84
14	A	802	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
14	B	3014	CLA	CAC-C3C-C4C	3.37	129.19	124.81
14	A	844	CLA	CMB-C2B-C3B	3.37	130.99	124.68
13	A	801	CL0	CMB-C2B-C1B	-3.35	123.31	128.46
14	F	202	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
14	B	3004	CLA	C2D-C1D-ND	-3.34	107.64	110.10
14	A	829	CLA	CMB-C2B-C1B	-3.31	123.37	128.46
14	B	3016	CLA	CMB-C2B-C1B	-3.31	123.37	128.46
16	I	105	BCR	C27-C26-C25	3.31	127.53	122.73
14	A	816	CLA	O2D-CGD-O1D	-3.31	117.37	123.84
16	B	3046	BCR	C15-C16-C17	-3.30	116.71	123.47
14	A	844	CLA	O2D-CGD-O1D	-3.30	117.39	123.84
14	A	836	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
14	B	3020	CLA	O2D-CGD-O1D	-3.29	117.40	123.84
14	B	3032	CLA	O2D-CGD-O1D	-3.29	117.40	123.84
14	B	3013	CLA	CMB-C2B-C1B	-3.29	123.40	128.46
14	A	808	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
14	B	3006	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
14	B	3017	CLA	O2D-CGD-O1D	-3.28	117.42	123.84
14	B	3008	CLA	CMB-C2B-C1B	-3.28	123.42	128.46
14	B	3011	CLA	CMB-C2B-C3B	3.28	130.81	124.68
14	K	103	CLA	O2D-CGD-CBD	3.25	117.05	111.27
14	A	813	CLA	O2D-CGD-O1D	-3.25	117.48	123.84
14	A	842	CLA	CMB-C2B-C1B	-3.23	123.50	128.46
14	B	3040	CLA	CMB-C2B-C1B	-3.23	123.50	128.46
14	A	816	CLA	O2D-CGD-CBD	3.23	117.01	111.27
16	A	847	BCR	C33-C5-C6	-3.23	120.90	124.53
14	B	3014	CLA	O2D-CGD-O1D	-3.23	117.53	123.84
14	A	830	CLA	CMB-C2B-C1B	-3.22	123.51	128.46
14	A	816	CLA	CMB-C2B-C1B	-3.22	123.51	128.46
14	B	3022	CLA	CMB-C2B-C1B	-3.18	123.57	128.46
14	A	805	CLA	O2D-CGD-O1D	-3.18	117.62	123.84
14	A	843	CLA	CMB-C2B-C1B	-3.18	123.58	128.46
16	I	105	BCR	C30-C25-C26	-3.18	118.14	122.61
14	A	825	CLA	CMB-C2B-C1B	-3.17	123.59	128.46
14	B	3014	CLA	CMB-C2B-C1B	-3.17	123.59	128.46
14	A	838	CLA	CMB-C2B-C3B	3.16	130.60	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	815	CLA	CMB-C2B-C1B	-3.16	123.61	128.46
14	A	821	CLA	O2D-CGD-O1D	-3.15	117.67	123.84
14	A	827	CLA	CMB-C2B-C1B	-3.15	123.62	128.46
14	A	830	CLA	O2D-CGD-O1D	-3.15	117.69	123.84
14	B	3010	CLA	C1-C2-C3	-3.14	120.61	126.04
14	M	102	CLA	CMB-C2B-C1B	-3.12	123.66	128.46
14	L	204	CLA	CMB-C2B-C3B	3.12	130.51	124.68
14	B	3021	CLA	CMB-C2B-C1B	-3.11	123.68	128.46
14	B	3017	CLA	CMB-C2B-C1B	-3.11	123.69	128.46
14	A	835	CLA	C1-C2-C3	-3.11	120.67	126.04
14	B	3008	CLA	CMB-C2B-C3B	3.10	130.48	124.68
14	A	809	CLA	CMB-C2B-C1B	-3.10	123.70	128.46
14	A	827	CLA	CMB-C2B-C3B	3.09	130.47	124.68
14	A	823	CLA	CMB-C2B-C1B	-3.09	123.71	128.46
14	A	820	CLA	CMB-C2B-C3B	3.09	130.46	124.68
14	B	3030	CLA	CMB-C2B-C1B	-3.09	123.72	128.46
14	A	822	CLA	O2D-CGD-O1D	-3.08	117.81	123.84
14	A	811	CLA	CMB-C2B-C1B	-3.08	123.73	128.46
14	A	832	CLA	CMB-C2B-C1B	-3.08	123.73	128.46
14	A	826	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
14	A	818	CLA	O2D-CGD-CBD	3.07	116.73	111.27
16	A	851	BCR	C33-C5-C6	-3.07	121.08	124.53
14	J	101	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
14	M	102	CLA	O2D-CGD-O1D	-3.06	117.85	123.84
14	A	824	CLA	CMB-C2B-C3B	3.06	130.41	124.68
14	A	813	CLA	CMB-C2B-C1B	-3.06	123.76	128.46
14	A	835	CLA	CMB-C2B-C3B	3.06	130.40	124.68
14	B	3021	CLA	C1B-CHB-C4A	-3.06	124.06	130.12
14	A	814	CLA	O2D-CGD-O1D	-3.06	117.86	123.84
14	A	828	CLA	CMB-C2B-C1B	-3.05	123.78	128.46
14	A	802	CLA	CMB-C2B-C3B	3.05	130.38	124.68
14	B	3016	CLA	O2D-CGD-O1D	-3.05	117.88	123.84
17	B	3048	LMG	O6-C1-O1	-3.04	102.76	109.97
14	I	101	CLA	CAC-C3C-C4C	3.04	128.75	124.81
14	A	802	CLA	CHD-C1D-ND	-3.04	121.66	124.45
14	A	810	CLA	CMB-C2B-C3B	3.03	130.35	124.68
14	A	802	CLA	C1B-CHB-C4A	-3.03	124.11	130.12
14	B	3021	CLA	O2D-CGD-O1D	-3.03	117.91	123.84
14	A	814	CLA	CMB-C2B-C1B	-3.03	123.81	128.46
14	B	3029	CLA	CMB-C2B-C1B	-3.03	123.81	128.46
14	J	101	CLA	CMB-C2B-C1B	-3.03	123.81	128.46
16	K	102	BCR	C27-C26-C25	3.03	127.12	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	841	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
14	B	3030	CLA	CHB-C4A-NA	3.02	128.68	124.51
14	B	3038	CLA	CMB-C2B-C1B	-3.00	123.85	128.46
16	J	105	BCR	C7-C8-C9	-3.00	121.70	126.23
14	B	3039	CLA	CMB-C2B-C3B	2.99	130.28	124.68
14	A	825	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
14	B	3005	CLA	O2D-CGD-CBD	2.99	116.58	111.27
16	F	201	BCR	C27-C26-C25	2.99	127.07	122.73
14	B	3035	CLA	O2D-CGD-O1D	-2.98	118.00	123.84
14	A	803	CLA	CMB-C2B-C3B	2.98	130.26	124.68
14	K	103	CLA	CMB-C2B-C3B	2.97	130.24	124.68
14	A	811	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
16	L	207	BCR	C15-C16-C17	-2.97	117.39	123.47
14	A	825	CLA	CMB-C2B-C3B	2.97	130.23	124.68
14	A	820	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
16	B	3050	BCR	C33-C5-C6	-2.96	121.20	124.53
14	B	3030	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
14	A	812	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
14	B	3025	CLA	CMB-C2B-C1B	-2.96	123.92	128.46
16	I	103	BCR	C15-C14-C13	-2.96	123.09	127.31
14	A	807	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
14	B	3003	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
14	A	845	CLA	CHB-C4A-NA	2.95	128.60	124.51
14	A	837	CLA	CMB-C2B-C3B	2.95	130.20	124.68
14	K	103	CLA	CMB-C2B-C1B	-2.95	123.92	128.46
14	B	3029	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
14	A	823	CLA	CHB-C4A-NA	2.95	128.59	124.51
16	I	103	BCR	C11-C10-C9	-2.95	123.11	127.31
14	A	839	CLA	CHB-C4A-NA	2.94	128.58	124.51
14	A	856	CLA	CMB-C2B-C3B	2.94	130.17	124.68
14	B	3003	CLA	CHB-C4A-NA	2.93	128.57	124.51
14	A	804	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
14	A	820	CLA	CAA-C2A-C1A	-2.92	102.40	111.97
14	A	817	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
14	A	814	CLA	O2D-CGD-CBD	2.92	116.46	111.27
14	F	202	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
14	B	3034	CLA	CMB-C2B-C3B	2.91	130.11	124.68
14	L	204	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
14	A	808	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
14	B	3008	CLA	O2D-CGD-O1D	-2.90	118.16	123.84
16	F	201	BCR	C2-C1-C6	2.90	114.94	110.48
14	A	829	CLA	CMB-C2B-C3B	2.90	130.09	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3025	CLA	CHB-C4A-NA	2.89	128.50	124.51
14	A	826	CLA	CMB-C2B-C1B	-2.89	124.03	128.46
14	B	3009	CLA	CHB-C4A-NA	2.89	128.50	124.51
14	B	3026	CLA	CHB-C4A-NA	2.88	128.50	124.51
21	L	201	LMT	C2'-C3'-C4'	2.88	116.27	109.68
15	A	846	PQN	O1-C1-C10	-2.88	116.90	121.56
14	B	3023	CLA	O2D-CGD-O1D	-2.88	118.21	123.84
16	J	103	BCR	C33-C5-C6	-2.87	121.30	124.53
14	X	1701	CLA	CHB-C4A-NA	2.87	128.48	124.51
14	B	3027	CLA	O2D-CGD-O1D	-2.86	118.24	123.84
16	B	3050	BCR	C27-C26-C25	2.86	126.89	122.73
14	B	3026	CLA	C2A-C1A-CHA	2.86	128.87	123.86
16	J	105	BCR	C2-C1-C6	2.86	114.89	110.48
16	A	850	BCR	C37-C22-C21	-2.86	118.92	122.92
14	B	3034	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
14	A	817	CLA	CMB-C2B-C3B	2.86	130.03	124.68
14	B	3035	CLA	CMB-C2B-C1B	-2.86	124.07	128.46
14	A	823	CLA	O2D-CGD-O1D	-2.86	118.25	123.84
14	B	3016	CLA	CMB-C2B-C3B	2.86	130.02	124.68
14	A	816	CLA	CMB-C2B-C3B	2.85	130.01	124.68
14	B	3023	CLA	CMB-C2B-C3B	2.85	130.01	124.68
14	A	833	CLA	CMB-C2B-C1B	-2.84	124.10	128.46
14	B	3018	CLA	CHB-C4A-NA	2.84	128.44	124.51
14	L	205	CLA	CHB-C4A-NA	2.83	128.43	124.51
14	B	3037	CLA	CMB-C2B-C1B	-2.83	124.11	128.46
14	X	1701	CLA	CMB-C2B-C1B	-2.83	124.11	128.46
14	A	809	CLA	CMB-C2B-C3B	2.83	129.97	124.68
16	I	105	BCR	C11-C10-C9	-2.83	123.27	127.31
14	A	806	CLA	CMB-C2B-C1B	-2.83	124.12	128.46
18	M	101	LHG	O8-C23-C24	2.83	120.78	111.91
14	A	803	CLA	CAA-C2A-C1A	-2.83	102.71	111.97
14	B	3019	CLA	CMB-C2B-C3B	2.83	129.97	124.68
16	M	103	BCR	C33-C5-C6	-2.82	121.36	124.53
14	A	818	CLA	CMB-C2B-C1B	-2.82	124.13	128.46
14	B	3026	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
14	A	829	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
14	A	820	CLA	CHB-C4A-NA	2.81	128.40	124.51
14	B	3010	CLA	CMB-C2B-C3B	2.81	129.93	124.68
14	A	802	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
14	A	837	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
14	A	835	CLA	CMB-C2B-C1B	-2.80	124.16	128.46
14	A	805	CLA	CMB-C2B-C1B	-2.80	124.17	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	835	CLA	C1B-CHB-C4A	-2.80	124.58	130.12
14	B	3008	CLA	CHB-C4A-NA	2.79	128.38	124.51
14	A	806	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
15	B	3042	PQN	O1-C1-C10	-2.79	117.05	121.56
21	L	201	LMT	C1'-O5'-C5'	-2.78	108.23	113.69
14	B	3014	CLA	CMB-C2B-C3B	2.78	129.88	124.68
14	B	3005	CLA	CHB-C4A-NA	2.78	128.35	124.51
14	A	807	CLA	CMB-C2B-C1B	-2.78	124.20	128.46
14	A	824	CLA	CHD-C1D-ND	-2.77	121.91	124.45
14	I	101	CLA	O2A-CGA-O1A	-2.77	116.60	123.59
14	A	836	CLA	O2D-CGD-O1D	-2.77	118.42	123.84
14	A	845	CLA	CMB-C2B-C1B	-2.77	124.21	128.46
14	B	3025	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
16	I	105	BCR	C33-C5-C6	-2.77	121.42	124.53
16	B	3045	BCR	C24-C23-C22	-2.76	122.06	126.23
14	B	3033	CLA	CMB-C2B-C1B	-2.76	124.22	128.46
16	A	849	BCR	C15-C16-C17	-2.76	117.82	123.47
14	B	3040	CLA	O2D-CGD-O1D	-2.76	118.45	123.84
14	B	3029	CLA	CHB-C4A-NA	2.76	128.32	124.51
14	B	3011	CLA	CHB-C4A-NA	2.75	128.32	124.51
16	F	203	BCR	C2-C1-C6	2.75	114.72	110.48
14	I	101	CLA	C1B-CHB-C4A	-2.75	124.67	130.12
14	A	838	CLA	O2D-CGD-O1D	-2.75	118.46	123.84
14	B	3021	CLA	CMB-C2B-C3B	2.75	129.82	124.68
14	A	809	CLA	CHB-C4A-NA	2.75	128.31	124.51
14	A	832	CLA	CHB-C4A-NA	2.75	128.31	124.51
14	A	843	CLA	CHB-C4A-NA	2.75	128.31	124.51
14	B	3027	CLA	CHB-C4A-NA	2.75	128.31	124.51
14	A	856	CLA	C1B-CHB-C4A	-2.74	124.69	130.12
16	B	3043	BCR	C29-C30-C25	2.74	114.70	110.48
14	B	3025	CLA	CMB-C2B-C3B	2.74	129.80	124.68
14	A	831	CLA	CMB-C2B-C3B	2.74	129.80	124.68
14	A	834	CLA	CMB-C2B-C1B	-2.74	124.26	128.46
14	L	203	CLA	CHB-C4A-NA	2.74	128.29	124.51
16	I	102	BCR	C35-C13-C14	-2.74	119.09	122.92
14	L	205	CLA	CAA-C2A-C1A	-2.73	103.02	111.97
16	F	203	BCR	C27-C26-C25	2.73	126.70	122.73
14	A	835	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
14	A	819	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
14	A	832	CLA	CMB-C2B-C3B	2.73	129.79	124.68
16	B	3047	BCR	C28-C27-C26	-2.73	109.20	114.08
14	A	840	CLA	CMB-C2B-C1B	-2.73	124.27	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	842	CLA	CMB-C2B-C3B	2.73	129.78	124.68
15	A	846	PQN	C2M-C2-C3	-2.72	119.96	124.40
14	A	821	CLA	CHD-C1D-ND	-2.72	121.95	124.45
14	B	3036	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
14	A	842	CLA	CHB-C4A-NA	2.72	128.27	124.51
17	A	852	LMG	C7-O1-C1	2.72	119.05	113.74
14	A	840	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
14	B	3029	CLA	CMB-C2B-C3B	2.72	129.76	124.68
14	B	3016	CLA	CHB-C4A-NA	2.71	128.26	124.51
14	B	3028	CLA	CMB-C2B-C1B	-2.71	124.29	128.46
14	B	3009	CLA	C1B-CHB-C4A	-2.71	124.75	130.12
16	F	203	BCR	C33-C5-C6	-2.71	121.48	124.53
14	A	804	CLA	CMB-C2B-C3B	2.71	129.75	124.68
14	A	844	CLA	C1B-CHB-C4A	-2.71	124.75	130.12
14	A	836	CLA	CMB-C2B-C3B	2.71	129.74	124.68
14	B	3010	CLA	C6-C7-C8	-2.71	107.17	115.92
14	B	3026	CLA	CMB-C2B-C1B	-2.71	124.31	128.46
17	A	855	LMG	O6-C1-O1	-2.70	103.58	109.97
14	B	3033	CLA	O2D-CGD-O1D	-2.70	118.56	123.84
14	A	843	CLA	CMB-C2B-C3B	2.70	129.73	124.68
14	B	3009	CLA	O2D-CGD-O1D	-2.70	118.57	123.84
14	A	824	CLA	O2D-CGD-O1D	-2.69	118.57	123.84
14	B	3036	CLA	CMB-C2B-C1B	-2.69	124.32	128.46
14	B	3020	CLA	CMB-C2B-C3B	2.69	129.72	124.68
16	I	102	BCR	C15-C16-C17	-2.69	117.96	123.47
14	A	812	CLA	CMB-C2B-C1B	-2.69	124.33	128.46
14	A	823	CLA	CMB-C2B-C3B	2.69	129.71	124.68
14	A	841	CLA	CMB-C2B-C1B	-2.69	124.34	128.46
16	A	848	BCR	C33-C5-C6	-2.68	121.51	124.53
16	I	102	BCR	C15-C14-C13	-2.68	123.48	127.31
14	B	3007	CLA	CHB-C4A-NA	2.68	128.22	124.51
14	B	3024	CLA	C1B-CHB-C4A	-2.68	124.81	130.12
14	B	3010	CLA	CHD-C1D-ND	-2.68	121.99	124.45
14	B	3024	CLA	CMB-C2B-C1B	-2.68	124.34	128.46
14	B	3015	CLA	O2D-CGD-O1D	-2.68	118.61	123.84
17	I	104	LMG	O6-C1-O1	-2.68	103.64	109.97
14	A	841	CLA	O2A-CGA-O1A	-2.67	116.85	123.59
14	B	3013	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
14	B	3022	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
14	A	815	CLA	CMB-C2B-C3B	2.66	129.66	124.68
14	L	203	CLA	O2A-CGA-O1A	-2.66	116.87	123.59
14	A	809	CLA	O2D-CGD-O1D	-2.66	118.63	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	810	CLA	O2D-CGD-O1D	-2.66	118.64	123.84
14	K	103	CLA	C1B-CHB-C4A	-2.65	124.86	130.12
14	B	3015	CLA	CMB-C2B-C1B	-2.65	124.39	128.46
14	B	3012	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
14	A	815	CLA	O2D-CGD-O1D	-2.65	118.66	123.84
14	A	834	CLA	O2D-CGD-O1D	-2.64	118.67	123.84
14	B	3015	CLA	CHB-C4A-NA	2.64	128.16	124.51
16	I	102	BCR	C27-C26-C25	2.64	126.56	122.73
14	A	856	CLA	C4-C3-C5	2.64	119.71	115.27
14	X	1701	CLA	O2D-CGD-CBD	2.63	115.95	111.27
14	A	819	CLA	C1B-CHB-C4A	-2.63	124.90	130.12
14	B	3017	CLA	C1B-CHB-C4A	-2.63	124.90	130.12
14	B	3040	CLA	CMB-C2B-C3B	2.63	129.60	124.68
14	B	3039	CLA	CHD-C1D-ND	-2.63	122.04	124.45
14	A	816	CLA	CHB-C4A-NA	2.62	128.14	124.51
16	A	849	BCR	C27-C26-C25	2.62	126.53	122.73
16	J	105	BCR	C27-C26-C25	2.62	126.53	122.73
14	A	825	CLA	CHB-C4A-NA	2.62	128.13	124.51
14	A	817	CLA	C1B-CHB-C4A	-2.62	124.93	130.12
16	B	3046	BCR	C2-C1-C6	2.61	114.50	110.48
16	I	102	BCR	C33-C5-C6	-2.61	121.59	124.53
15	A	846	PQN	C2M-C2-C1	2.61	120.59	116.27
14	B	3037	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
14	B	3020	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
14	B	3004	CLA	CAC-C3C-C4C	2.61	128.19	124.81
14	B	3030	CLA	C1B-CHB-C4A	-2.60	124.96	130.12
13	A	801	CL0	O2D-CGD-O1D	-2.60	118.75	123.84
14	B	3007	CLA	C1B-CHB-C4A	-2.60	124.96	130.12
14	J	101	CLA	CMB-C2B-C3B	2.60	129.55	124.68
14	B	3013	CLA	CMB-C2B-C3B	2.60	129.55	124.68
14	B	3030	CLA	CMB-C2B-C3B	2.60	129.54	124.68
14	A	831	CLA	O2D-CGD-O1D	-2.60	118.76	123.84
14	A	827	CLA	O2D-CGD-O1D	-2.60	118.76	123.84
14	B	3008	CLA	C2D-C1D-ND	-2.59	108.19	110.10
14	A	828	CLA	CMB-C2B-C3B	2.59	129.53	124.68
16	B	3043	BCR	C2-C1-C6	2.59	114.47	110.48
14	B	3038	CLA	O2D-CGD-O1D	-2.59	118.78	123.84
16	I	105	BCR	C37-C22-C21	-2.59	119.30	122.92
14	B	3022	CLA	CMB-C2B-C3B	2.59	129.51	124.68
14	A	814	CLA	CMB-C2B-C3B	2.58	129.50	124.68
14	B	3008	CLA	O2D-CGD-CBD	2.58	115.85	111.27
14	A	845	CLA	O2D-CGD-O1D	-2.58	118.80	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	808	CLA	CMB-C2B-C3B	2.58	129.50	124.68
14	B	3036	CLA	CHB-C4A-NA	2.58	128.07	124.51
14	A	819	CLA	CHD-C1D-ND	-2.57	122.09	124.45
16	K	102	BCR	C24-C23-C22	-2.57	122.35	126.23
14	X	1701	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
14	B	3037	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
14	A	803	CLA	O2D-CGD-O1D	-2.57	118.82	123.84
14	A	827	CLA	C1B-CHB-C4A	-2.57	125.04	130.12
14	B	3027	CLA	CMB-C2B-C1B	-2.56	124.52	128.46
14	A	833	CLA	C1B-CHB-C4A	-2.56	125.04	130.12
14	L	203	CLA	C5-C3-C2	2.56	126.30	121.12
16	L	207	BCR	C8-C7-C6	-2.56	120.01	127.20
16	A	848	BCR	C27-C26-C25	2.56	126.45	122.73
16	B	3047	BCR	C15-C16-C17	-2.56	118.23	123.47
14	A	810	CLA	CHB-C4A-NA	2.56	128.05	124.51
16	I	102	BCR	C24-C23-C22	-2.56	122.37	126.23
14	B	3005	CLA	CMB-C2B-C1B	-2.55	124.54	128.46
16	J	104	BCR	C15-C16-C17	-2.55	118.24	123.47
14	B	3018	CLA	C1B-CHB-C4A	-2.55	125.06	130.12
14	K	101	CLA	CHB-C4A-NA	2.55	128.04	124.51
14	A	820	CLA	C1B-CHB-C4A	-2.55	125.07	130.12
13	A	801	CL0	CHB-C4A-NA	2.55	128.03	124.51
16	A	848	BCR	C15-C16-C17	-2.54	118.26	123.47
14	B	3031	CLA	CHB-C4A-NA	2.54	128.03	124.51
14	A	807	CLA	CHB-C4A-NA	2.54	128.03	124.51
14	B	3038	CLA	CMB-C2B-C3B	2.54	129.43	124.68
14	B	3011	CLA	C2A-C1A-CHA	2.53	128.29	123.86
16	I	105	BCR	C15-C16-C17	-2.53	118.29	123.47
14	B	3017	CLA	CMB-C2B-C3B	2.53	129.41	124.68
14	J	102	CLA	CMB-C2B-C1B	-2.53	124.58	128.46
14	B	3012	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
14	A	843	CLA	O2D-CGD-O1D	-2.53	118.90	123.84
14	A	803	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
14	A	806	CLA	CHB-C4A-NA	2.52	128.00	124.51
16	A	850	BCR	C27-C26-C25	2.52	126.39	122.73
14	L	205	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
14	B	3031	CLA	O2D-CGD-CBD	2.51	115.73	111.27
14	A	831	CLA	CHB-C4A-NA	2.51	127.98	124.51
14	B	3003	CLA	CMB-C2B-C1B	-2.50	124.62	128.46
14	B	3012	CLA	CHB-C4A-NA	2.50	127.97	124.51
14	B	3004	CLA	O2A-CGA-O1A	-2.50	117.28	123.59
16	A	851	BCR	C28-C27-C26	-2.50	109.61	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	856	CLA	O2D-CGD-CBD	2.50	115.71	111.27
14	L	203	CLA	O2D-CGD-O1D	-2.50	118.95	123.84
14	A	829	CLA	CHD-C1D-ND	-2.50	122.16	124.45
13	A	801	CL0	O1D-CGD-CBD	2.50	129.60	124.48
21	L	201	LMT	C1'-C2'-C3'	2.50	115.20	110.00
14	A	841	CLA	CHD-C1D-ND	-2.50	122.16	124.45
14	B	3024	CLA	O2D-CGD-O1D	-2.50	118.96	123.84
14	A	830	CLA	CMB-C2B-C3B	2.50	129.35	124.68
14	B	3009	CLA	O2A-CGA-O1A	-2.49	117.30	123.59
14	A	822	CLA	CHD-C1D-ND	-2.49	122.16	124.45
16	J	104	BCR	C24-C23-C22	-2.49	122.47	126.23
14	A	803	CLA	CHB-C4A-NA	2.49	127.96	124.51
14	A	812	CLA	CHB-C4A-NA	2.48	127.95	124.51
14	A	810	CLA	C2D-C1D-ND	-2.48	108.27	110.10
16	I	105	BCR	C36-C18-C17	-2.48	119.44	122.92
14	B	3039	CLA	C1B-CHB-C4A	-2.48	125.20	130.12
14	A	836	CLA	CHB-C4A-NA	2.48	127.95	124.51
14	B	3038	CLA	CHB-C4A-NA	2.48	127.95	124.51
14	B	3011	CLA	C4-C3-C5	2.48	119.44	115.27
14	A	808	CLA	O2D-CGD-CBD	2.48	115.67	111.27
14	B	3018	CLA	O2D-CGD-O1D	-2.47	119.00	123.84
14	B	3028	CLA	C1B-CHB-C4A	-2.47	125.22	130.12
17	A	852	LMG	C1-O6-C5	-2.47	108.83	113.69
14	B	3010	CLA	C6-C5-C3	-2.47	106.97	113.45
14	B	3025	CLA	C2A-C1A-CHA	2.47	128.18	123.86
22	L	206	DGD	O3G-C1D-C2D	-2.47	104.45	108.30
14	B	3040	CLA	C1B-CHB-C4A	-2.47	125.23	130.12
14	A	835	CLA	CHD-C1D-ND	-2.47	122.19	124.45
14	B	3028	CLA	CMB-C2B-C3B	2.46	129.28	124.68
14	B	3035	CLA	CHB-C4A-NA	2.46	127.91	124.51
14	B	3033	CLA	CHB-C4A-NA	2.46	127.91	124.51
14	B	3037	CLA	CHB-C4A-NA	2.46	127.91	124.51
14	B	3015	CLA	CMB-C2B-C3B	2.46	129.28	124.68
14	B	3006	CLA	CMB-C2B-C1B	-2.46	124.69	128.46
16	I	103	BCR	C2-C1-C6	2.46	114.26	110.48
13	A	801	CL0	CMB-C2B-C3B	2.45	129.27	124.68
14	B	3041	CLA	C7-C6-C5	-2.45	106.70	113.36
16	A	848	BCR	C35-C13-C14	-2.45	119.49	122.92
14	A	842	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
14	B	3031	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
14	A	824	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
14	B	3006	CLA	O2D-CGD-CBD	2.45	115.62	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	826	CLA	CHB-C4A-NA	2.45	127.89	124.51
14	F	202	CLA	CHD-C1D-ND	-2.44	122.21	124.45
14	A	845	CLA	C1-C2-C3	-2.44	121.82	126.04
16	L	207	BCR	C33-C5-C6	-2.44	121.79	124.53
14	A	815	CLA	CHD-C1D-ND	-2.44	122.21	124.45
14	A	832	CLA	O2D-CGD-O1D	-2.44	119.07	123.84
22	L	206	DGD	O6E-C1E-O5D	-2.44	104.20	109.97
14	A	829	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
14	A	811	CLA	CMB-C2B-C3B	2.43	129.23	124.68
14	A	815	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
16	A	849	BCR	C15-C14-C13	-2.43	123.84	127.31
14	B	3034	CLA	CAA-C2A-C1A	-2.43	104.01	111.97
16	A	849	BCR	C33-C5-C6	-2.43	121.80	124.53
16	B	3044	BCR	C2-C1-C6	2.43	114.22	110.48
14	A	806	CLA	CHD-C1D-ND	-2.43	122.22	124.45
14	A	839	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
14	B	3019	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
14	B	3003	CLA	CHD-C1D-ND	-2.43	122.22	124.45
14	A	837	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
14	A	823	CLA	C1B-CHB-C4A	-2.42	125.31	130.12
16	B	3043	BCR	C33-C5-C6	-2.42	121.81	124.53
22	L	206	DGD	O6D-C1D-O3G	-2.42	104.24	109.97
14	B	3010	CLA	CBA-CAA-C2A	-2.42	106.71	113.86
16	B	3044	BCR	C33-C5-C6	-2.42	121.81	124.53
14	A	823	CLA	CHD-C1D-ND	-2.42	122.23	124.45
14	B	3023	CLA	C1B-CHB-C4A	-2.41	125.33	130.12
14	A	806	CLA	O2A-CGA-O1A	-2.41	117.50	123.59
14	M	102	CLA	CMA-C3A-C4A	2.41	118.26	111.77
14	A	827	CLA	CHB-C4A-NA	2.41	127.85	124.51
14	B	3022	CLA	CHB-C4A-NA	2.41	127.85	124.51
14	B	3026	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
14	B	3035	CLA	CHD-C1D-ND	-2.41	122.24	124.45
14	B	3034	CLA	CAA-CBA-CGA	-2.41	106.22	113.25
14	L	203	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
16	J	104	BCR	C33-C5-C6	-2.41	121.83	124.53
14	B	3024	CLA	CMB-C2B-C3B	2.41	129.18	124.68
14	A	828	CLA	O2D-CGD-O1D	-2.41	119.13	123.84
14	B	3041	CLA	C4-C3-C5	2.41	119.32	115.27
16	F	201	BCR	C16-C15-C14	-2.41	118.55	123.47
14	A	835	CLA	CHB-C4A-NA	2.40	127.83	124.51
14	A	821	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
14	A	819	CLA	CHB-C4A-NA	2.40	127.83	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3041	CLA	O2A-C1-C2	-2.40	102.33	108.64
14	A	822	CLA	CHB-C4A-NA	2.40	127.83	124.51
14	B	3018	CLA	O2A-CGA-O1A	-2.40	117.54	123.59
14	B	3004	CLA	C1B-CHB-C4A	-2.40	125.37	130.12
14	A	833	CLA	CMB-C2B-C3B	2.39	129.16	124.68
16	A	847	BCR	C15-C16-C17	-2.39	118.57	123.47
16	A	850	BCR	C33-C5-C6	-2.39	121.84	124.53
14	A	813	CLA	CMB-C2B-C3B	2.39	129.15	124.68
14	B	3017	CLA	CHB-C4A-NA	2.39	127.82	124.51
18	A	853	LHG	O8-C23-C24	2.39	119.40	111.91
14	J	101	CLA	CHB-C4A-NA	2.39	127.81	124.51
14	B	3032	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
16	J	105	BCR	C15-C16-C17	-2.38	118.59	123.47
16	I	105	BCR	C38-C26-C27	-2.38	109.04	113.62
14	B	3018	CLA	CHD-C1D-ND	-2.38	122.26	124.45
16	J	105	BCR	C11-C10-C9	-2.38	123.91	127.31
16	B	3047	BCR	C2-C1-C6	2.38	114.14	110.48
14	I	101	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
14	B	3003	CLA	C1B-CHB-C4A	-2.38	125.41	130.12
14	B	3007	CLA	O2D-CGD-O1D	-2.38	119.19	123.84
16	I	105	BCR	C35-C13-C14	-2.38	119.60	122.92
16	L	207	BCR	C38-C26-C25	-2.37	121.86	124.53
14	B	3034	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
14	B	3006	CLA	CHB-C4A-NA	2.37	127.79	124.51
16	J	105	BCR	C3-C4-C5	-2.37	109.84	114.08
16	A	847	BCR	C27-C26-C25	2.37	126.17	122.73
14	A	841	CLA	CHB-C4A-NA	2.37	127.78	124.51
14	B	3013	CLA	CHB-C4A-NA	2.37	127.78	124.51
14	A	808	CLA	CHB-C4A-NA	2.36	127.78	124.51
16	J	103	BCR	C27-C26-C25	2.36	126.16	122.73
14	A	835	CLA	C5-C3-C2	2.36	125.90	121.12
14	A	818	CLA	CMB-C2B-C3B	2.36	129.10	124.68
13	A	801	CL0	C1B-CHB-C4A	-2.36	125.44	130.12
14	B	3031	CLA	CHD-C1D-ND	-2.36	122.28	124.45
14	M	102	CLA	CMB-C2B-C3B	2.36	129.09	124.68
14	A	841	CLA	CMB-C2B-C3B	2.36	129.09	124.68
14	B	3023	CLA	C2D-C1D-ND	-2.36	108.37	110.10
14	A	809	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
14	A	828	CLA	CHB-C4A-NA	2.35	127.77	124.51
14	A	834	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
14	A	806	CLA	CMB-C2B-C3B	2.35	129.08	124.68
14	B	3010	CLA	C1B-CHB-C4A	-2.35	125.46	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	K	101	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
14	B	3031	CLA	CMB-C2B-C1B	-2.35	124.86	128.46
14	J	102	CLA	CHD-C1D-ND	-2.34	122.30	124.45
14	I	101	CLA	CHB-C4A-NA	2.34	127.75	124.51
14	B	3028	CLA	C4-C3-C5	2.34	119.21	115.27
14	A	841	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
14	A	832	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
14	A	814	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
16	B	3045	BCR	C33-C5-C6	-2.34	121.91	124.53
16	I	103	BCR	C7-C8-C9	-2.34	122.71	126.23
14	A	819	CLA	O2A-CGA-O1A	-2.33	117.70	123.59
16	J	103	BCR	C15-C14-C13	-2.33	123.98	127.31
14	B	3030	CLA	C2A-C1A-CHA	2.33	127.94	123.86
14	B	3020	CLA	O2D-CGD-CBD	2.33	115.41	111.27
16	B	3047	BCR	C33-C5-C6	-2.33	121.91	124.53
14	A	826	CLA	CMB-C2B-C3B	2.33	129.03	124.68
14	B	3032	CLA	CHB-C4A-NA	2.33	127.73	124.51
14	F	202	CLA	CMB-C2B-C3B	2.33	129.03	124.68
14	A	806	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
14	B	3021	CLA	O2A-CGA-O1A	-2.33	117.72	123.59
14	A	833	CLA	CHD-C1D-ND	-2.32	122.32	124.45
14	B	3037	CLA	CMB-C2B-C3B	2.32	129.01	124.68
14	B	3011	CLA	CHA-C1A-NA	-2.32	121.09	126.40
16	B	3047	BCR	C8-C7-C6	-2.32	120.70	127.20
14	B	3028	CLA	O2D-CGD-O1D	-2.32	119.31	123.84
14	L	205	CLA	O2D-CGD-O1D	-2.32	119.31	123.84
14	A	811	CLA	CAA-C2A-C3A	2.31	119.11	112.78
17	A	852	LMG	C1-C2-C3	-2.31	105.18	110.00
14	A	814	CLA	CHB-C4A-NA	2.31	127.71	124.51
14	A	822	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
17	B	3048	LMG	C4-C3-C2	-2.30	106.80	110.82
16	B	3046	BCR	C37-C22-C21	-2.30	119.69	122.92
14	B	3011	CLA	C1B-CHB-C4A	-2.30	125.55	130.12
17	B	3048	LMG	C3-C4-C5	-2.30	106.13	110.24
14	A	813	CLA	CHB-C4A-NA	2.30	127.70	124.51
14	B	3016	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
14	A	842	CLA	C1-C2-C3	-2.30	122.06	126.04
15	A	846	PQN	C10-C1-C2	2.30	122.23	118.95
14	B	3020	CLA	CHB-C4A-NA	2.30	127.69	124.51
14	A	816	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
14	A	827	CLA	CAA-C2A-C1A	-2.30	104.44	111.97
14	A	812	CLA	C1B-CHB-C4A	-2.30	125.56	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3019	CLA	O2D-CGD-O1D	-2.30	119.34	123.84
17	B	3048	LMG	C40-C39-C38	-2.30	102.77	114.42
14	B	3035	CLA	CMB-C2B-C3B	2.30	128.97	124.68
14	X	1701	CLA	CMB-C2B-C3B	2.30	128.97	124.68
16	A	847	BCR	C8-C7-C6	-2.29	120.76	127.20
14	B	3019	CLA	CHB-C4A-NA	2.29	127.68	124.51
14	B	3029	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
14	A	813	CLA	O2D-CGD-CBD	2.29	115.34	111.27
14	L	204	CLA	CHB-C4A-NA	2.29	127.68	124.51
14	B	3021	CLA	CHB-C4A-NA	2.29	127.68	124.51
14	A	807	CLA	CHD-C1D-ND	-2.29	122.35	124.45
17	A	855	LMG	O3-C3-C2	-2.29	105.06	110.35
14	B	3025	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
14	A	836	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
14	A	843	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
16	J	104	BCR	C27-C26-C25	2.28	126.05	122.73
14	B	3041	CLA	CMB-C2B-C1B	-2.28	124.95	128.46
14	B	3039	CLA	O2A-CGA-O1A	-2.28	117.83	123.59
14	A	845	CLA	CMB-C2B-C3B	2.28	128.94	124.68
14	B	3041	CLA	CAA-CBA-CGA	-2.28	106.60	113.25
16	I	102	BCR	C34-C9-C10	-2.27	119.74	122.92
14	B	3015	CLA	C1B-CHB-C4A	-2.27	125.61	130.12
16	J	104	BCR	C35-C13-C14	-2.27	119.74	122.92
14	A	837	CLA	CHB-C4A-NA	2.27	127.65	124.51
14	A	819	CLA	C1-C2-C3	-2.27	122.12	126.04
16	J	105	BCR	C35-C13-C14	-2.27	119.75	122.92
16	I	103	BCR	C33-C5-C6	-2.27	121.98	124.53
16	A	851	BCR	C15-C16-C17	-2.26	118.84	123.47
14	A	804	CLA	CHD-C1D-ND	-2.26	122.38	124.45
16	A	850	BCR	C2-C1-C6	2.26	113.95	110.48
16	A	848	BCR	C2-C1-C6	2.25	113.95	110.48
14	A	829	CLA	O2A-CGA-O1A	-2.25	117.90	123.59
16	K	102	BCR	C15-C16-C17	-2.25	118.86	123.47
14	B	3019	CLA	CHD-C1D-ND	-2.25	122.39	124.45
14	B	3013	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
14	A	826	CLA	C11-C10-C8	-2.25	108.64	115.92
14	B	3040	CLA	CHB-C4A-NA	2.25	127.62	124.51
22	L	206	DGD	CDB-CCB-CBB	-2.25	103.01	114.42
14	B	3004	CLA	CHB-C4A-NA	2.25	127.62	124.51
14	A	809	CLA	C1-C2-C3	-2.25	122.16	126.04
14	B	3024	CLA	CHB-C4A-NA	2.25	127.62	124.51
14	A	844	CLA	CHB-C4A-NA	2.25	127.62	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	831	CLA	C1B-CHB-C4A	-2.24	125.67	130.12
14	A	826	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
15	B	3042	PQN	O4-C4-C3	-2.24	116.95	120.56
14	B	3012	CLA	C2D-C1D-ND	-2.24	108.45	110.10
14	B	3036	CLA	CMB-C2B-C3B	2.24	128.86	124.68
13	A	801	CL0	C2D-C1D-ND	-2.24	108.46	110.10
14	B	3021	CLA	CHD-C1D-ND	-2.24	122.40	124.45
14	A	818	CLA	CHD-C1D-ND	-2.23	122.40	124.45
14	B	3007	CLA	CHD-C1D-ND	-2.23	122.40	124.45
14	A	842	CLA	O2D-CGD-O1D	-2.23	119.47	123.84
14	B	3006	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
16	B	3043	BCR	C28-C27-C26	-2.23	110.09	114.08
16	F	201	BCR	C8-C7-C6	-2.23	120.94	127.20
16	A	850	BCR	C34-C9-C10	-2.23	119.80	122.92
14	A	810	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
14	B	3022	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
16	K	102	BCR	C35-C13-C12	2.23	121.58	118.08
14	A	830	CLA	CHB-C4A-NA	2.22	127.59	124.51
16	F	201	BCR	C33-C5-C6	-2.22	122.03	124.53
14	A	838	CLA	O2A-CGA-O1A	-2.22	117.99	123.59
14	B	3013	CLA	CHD-C1D-ND	-2.22	122.41	124.45
14	I	101	CLA	C4D-CHA-C1A	2.22	123.95	121.25
14	A	802	CLA	C3C-C4C-NC	-2.22	108.08	110.57
14	A	821	CLA	O2D-CGD-CBD	2.22	115.21	111.27
16	B	3047	BCR	C27-C26-C25	2.22	125.95	122.73
16	B	3046	BCR	C24-C23-C22	-2.22	122.89	126.23
14	A	826	CLA	CHD-C1D-ND	-2.22	122.42	124.45
14	B	3038	CLA	O2A-CGA-O1A	-2.22	118.00	123.59
18	A	853	LHG	C18-C17-C16	-2.22	103.18	114.42
14	B	3036	CLA	C1B-CHB-C4A	-2.21	125.73	130.12
14	A	840	CLA	O2A-CGA-O1A	-2.21	118.00	123.59
14	A	823	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
16	A	851	BCR	C34-C9-C10	-2.21	119.82	122.92
14	L	203	CLA	CMB-C2B-C1B	-2.21	125.06	128.46
14	B	3011	CLA	O2D-CGD-O1D	-2.21	119.52	123.84
14	B	3041	CLA	C1B-CHB-C4A	-2.21	125.74	130.12
14	B	3021	CLA	C3C-C4C-NC	-2.21	108.10	110.57
16	B	3047	BCR	C16-C15-C14	-2.21	118.95	123.47
14	A	809	CLA	O2A-CGA-O1A	-2.21	118.03	123.59
14	A	827	CLA	C2D-C1D-ND	-2.21	108.48	110.10
14	A	806	CLA	O1D-CGD-CBD	2.20	128.99	124.48
14	X	1701	CLA	CHD-C1D-ND	-2.20	122.43	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	B	3045	BCR	C15-C16-C17	-2.20	118.96	123.47
16	B	3045	BCR	C15-C14-C13	-2.20	124.17	127.31
22	L	206	DGD	C5B-C4B-C3B	-2.20	103.26	114.42
14	J	102	CLA	C1B-CHB-C4A	-2.20	125.76	130.12
14	A	838	CLA	CHB-C4A-NA	2.20	127.55	124.51
14	A	817	CLA	CHD-C1D-ND	-2.20	122.44	124.45
14	K	101	CLA	O2A-CGA-O1A	-2.20	117.83	123.30
14	J	102	CLA	CHB-C4A-NA	2.19	127.55	124.51
14	A	832	CLA	C1-C2-C3	-2.19	123.20	126.75
16	B	3046	BCR	C11-C10-C9	-2.19	124.18	127.31
14	B	3030	CLA	O2A-CGA-O1A	-2.19	118.06	123.59
14	B	3015	CLA	CHD-C1D-ND	-2.19	122.44	124.45
14	B	3023	CLA	CHB-C4A-NA	2.19	127.54	124.51
14	A	825	CLA	O2A-CGA-O1A	-2.19	118.07	123.59
14	B	3016	CLA	C2D-C1D-ND	-2.19	108.49	110.10
14	A	807	CLA	CMB-C2B-C3B	2.19	128.77	124.68
14	A	811	CLA	CHD-C1D-ND	-2.19	122.44	124.45
14	A	821	CLA	CMA-C3A-C2A	-2.18	111.00	116.10
14	L	204	CLA	O2D-CGD-CBD	2.18	115.15	111.27
14	A	832	CLA	C2A-C1A-CHA	2.18	127.67	123.86
14	B	3018	CLA	C2A-C1A-CHA	2.18	127.67	123.86
14	A	818	CLA	C1B-CHB-C4A	-2.18	125.80	130.12
14	B	3026	CLA	CMB-C2B-C3B	2.18	128.75	124.68
15	A	846	PQN	O4-C4-C3	-2.18	117.06	120.56
14	A	843	CLA	O2A-CGA-O1A	-2.18	118.10	123.59
15	B	3042	PQN	C2M-C2-C1	2.18	119.88	116.27
14	B	3014	CLA	C1B-CHB-C4A	-2.18	125.81	130.12
16	A	847	BCR	C38-C26-C25	-2.17	122.09	124.53
17	A	855	LMG	C1-O6-C5	-2.17	109.42	113.69
16	J	105	BCR	C15-C14-C13	-2.17	124.21	127.31
22	L	206	DGD	CBB-CAB-C9B	-2.17	103.40	114.42
14	A	805	CLA	C1B-CHB-C4A	-2.17	125.81	130.12
14	F	202	CLA	C1B-CHB-C4A	-2.17	125.82	130.12
15	B	3042	PQN	C5-C4-C3	2.17	122.40	118.42
14	B	3032	CLA	O1D-CGD-CBD	2.17	128.92	124.48
14	B	3008	CLA	C1B-CHB-C4A	-2.17	125.83	130.12
14	L	204	CLA	C1B-CHB-C4A	-2.16	125.83	130.12
14	A	803	CLA	C2D-C1D-ND	-2.16	108.51	110.10
14	B	3010	CLA	O2D-CGD-O1D	-2.16	119.61	123.84
14	A	812	CLA	O2A-CGA-O1A	-2.16	118.13	123.59
14	A	836	CLA	O2A-CGA-O1A	-2.16	118.14	123.59
14	A	814	CLA	CHD-C1D-ND	-2.16	122.47	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3005	CLA	C1B-CHB-C4A	-2.16	125.84	130.12
14	B	3034	CLA	CHB-C4A-NA	2.16	127.50	124.51
14	B	3029	CLA	CHD-C1D-ND	-2.16	122.47	124.45
14	L	203	CLA	C6-C7-C8	-2.16	108.94	115.92
14	A	820	CLA	O2A-CGA-O1A	-2.16	118.15	123.59
14	A	821	CLA	CHB-C4A-NA	2.16	127.49	124.51
17	A	852	LMG	O3-C3-C2	-2.16	105.37	110.35
14	A	841	CLA	O2A-C1-C2	-2.15	102.97	108.64
17	I	104	LMG	O2-C2-C1	-2.15	104.82	110.05
14	A	840	CLA	O2D-CGD-CBD	2.15	115.09	111.27
14	A	802	CLA	O1D-CGD-CBD	2.15	128.88	124.48
16	B	3044	BCR	C16-C15-C14	-2.15	119.07	123.47
14	A	811	CLA	O2A-CGA-O1A	-2.15	117.94	123.30
14	B	3022	CLA	O2A-CGA-O1A	-2.15	117.94	123.30
16	A	849	BCR	C7-C8-C9	-2.15	122.99	126.23
22	L	206	DGD	CFB-CEB-CDB	-2.15	103.52	114.42
14	A	824	CLA	CHB-C4A-NA	2.15	127.48	124.51
14	A	812	CLA	CHD-C1D-ND	-2.15	122.48	124.45
16	A	848	BCR	C15-C14-C13	-2.15	124.25	127.31
16	I	103	BCR	C27-C26-C25	2.15	125.85	122.73
16	J	103	BCR	C24-C23-C22	-2.15	122.99	126.23
14	B	3024	CLA	CHD-C1D-ND	-2.15	122.48	124.45
13	A	801	CL0	C1-O2A-CGA	2.15	122.07	116.44
16	A	850	BCR	C15-C16-C17	-2.14	119.09	123.47
14	B	3032	CLA	CED-O2D-CGD	2.14	120.78	115.94
16	B	3046	BCR	C27-C26-C25	2.14	125.84	122.73
16	B	3050	BCR	C11-C10-C9	-2.14	124.25	127.31
16	J	103	BCR	C15-C16-C17	-2.14	119.09	123.47
14	A	813	CLA	C1B-CHB-C4A	-2.14	125.88	130.12
14	A	820	CLA	CHD-C1D-ND	-2.14	122.49	124.45
14	A	815	CLA	O2A-CGA-O1A	-2.14	117.97	123.30
14	B	3029	CLA	C1-C2-C3	-2.14	122.35	126.04
14	B	3027	CLA	C1B-CHB-C4A	-2.14	125.89	130.12
14	B	3035	CLA	C1B-CHB-C4A	-2.14	125.89	130.12
14	A	812	CLA	CAC-C3C-C4C	2.13	127.58	124.81
14	A	804	CLA	C1B-CHB-C4A	-2.13	125.89	130.12
14	B	3031	CLA	C3A-C2A-C1A	2.13	104.53	101.34
16	A	851	BCR	C24-C23-C22	-2.13	123.01	126.23
16	J	104	BCR	C15-C14-C13	-2.13	124.27	127.31
14	A	803	CLA	CAA-CBA-CGA	-2.13	107.02	113.25
14	A	825	CLA	CHD-C1D-ND	-2.13	122.50	124.45
14	A	827	CLA	O2D-CGD-CBD	2.13	115.05	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	I	104	LMG	O8-C28-O10	-2.13	118.22	123.59
14	A	815	CLA	CHB-C4A-NA	2.13	127.45	124.51
14	A	825	CLA	C1B-CHB-C4A	-2.13	125.91	130.12
14	A	840	CLA	CHB-C4A-NA	2.12	127.45	124.51
16	B	3046	BCR	C15-C14-C13	-2.12	124.28	127.31
16	F	203	BCR	C38-C26-C25	-2.12	122.14	124.53
14	B	3025	CLA	C1-O2A-CGA	2.12	122.01	116.44
14	M	102	CLA	O2D-CGD-CBD	2.12	115.04	111.27
14	A	844	CLA	C6-C7-C8	-2.12	109.07	115.92
14	B	3037	CLA	CHD-C1D-ND	-2.12	122.51	124.45
16	A	848	BCR	C37-C22-C21	-2.12	119.95	122.92
14	J	102	CLA	CAC-C3C-C4C	2.12	127.56	124.81
16	M	103	BCR	C27-C26-C25	2.12	125.81	122.73
16	A	847	BCR	C24-C23-C22	-2.12	123.03	126.23
14	B	3004	CLA	O2D-CGD-O1D	-2.11	119.70	123.84
14	A	812	CLA	C2D-C1D-ND	-2.11	108.55	110.10
14	B	3039	CLA	CHB-C4A-NA	2.11	127.43	124.51
14	A	840	CLA	C1B-CHB-C4A	-2.11	125.94	130.12
14	B	3034	CLA	CHD-C1D-ND	-2.11	122.51	124.45
13	A	801	CL0	O2A-CGA-O1A	-2.11	118.27	123.59
14	A	826	CLA	O2D-CGD-CBD	2.11	115.02	111.27
16	B	3045	BCR	C27-C26-C25	2.11	125.79	122.73
14	A	810	CLA	C6-C5-C3	2.11	118.99	113.45
14	B	3012	CLA	C3A-C2A-C1A	2.11	104.50	101.34
14	B	3019	CLA	C1-O2A-CGA	2.11	121.97	116.44
14	J	102	CLA	CMB-C2B-C3B	2.11	128.62	124.68
14	J	101	CLA	C1B-CHB-C4A	-2.10	125.95	130.12
14	A	833	CLA	CHB-C4A-NA	2.10	127.42	124.51
14	A	812	CLA	CMB-C2B-C3B	2.10	128.61	124.68
14	B	3032	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
14	B	3040	CLA	CHD-C1D-ND	-2.10	122.53	124.45
14	A	805	CLA	CHB-C4A-NA	2.10	127.41	124.51
14	B	3033	CLA	C1B-CHB-C4A	-2.10	125.96	130.12
16	K	102	BCR	C33-C5-C6	-2.10	122.17	124.53
14	A	830	CLA	C1-C2-C3	-2.10	122.42	126.04
14	A	805	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
16	B	3043	BCR	C24-C23-C22	-2.10	123.07	126.23
14	B	3014	CLA	O2D-CGD-CBD	2.09	114.99	111.27
14	A	844	CLA	O2D-CGD-CBD	2.09	114.98	111.27
16	B	3050	BCR	C16-C15-C14	-2.09	119.19	123.47
15	A	846	PQN	C5-C4-C3	2.09	122.25	118.42
14	A	807	CLA	C1B-CHB-C4A	-2.09	125.98	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B	3027	CLA	CMB-C2B-C3B	2.09	128.59	124.68
16	L	207	BCR	C27-C26-C25	2.09	125.76	122.73
14	B	3033	CLA	O2D-CGD-CBD	2.09	114.98	111.27
17	A	852	LMG	O7-C10-O9	-2.09	118.66	123.70
14	B	3029	CLA	C2D-C1D-ND	-2.09	108.57	110.10
14	B	3005	CLA	CMB-C2B-C3B	2.09	128.58	124.68
16	B	3043	BCR	C15-C16-C17	-2.09	119.20	123.47
14	A	856	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
14	K	101	CLA	CHD-C1D-ND	-2.08	122.54	124.45
14	A	820	CLA	C2A-C1A-CHA	2.08	127.50	123.86
14	B	3034	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
14	B	3006	CLA	CMB-C2B-C3B	2.08	128.56	124.68
16	B	3050	BCR	C7-C8-C9	-2.08	123.10	126.23
16	B	3045	BCR	C8-C7-C6	-2.08	121.37	127.20
16	J	105	BCR	C33-C5-C6	-2.07	122.20	124.53
14	A	828	CLA	O1D-CGD-CBD	2.07	128.73	124.48
14	A	835	CLA	C4-C3-C2	-2.07	118.36	123.68
14	K	103	CLA	CHD-C1D-ND	-2.07	122.55	124.45
16	B	3044	BCR	C27-C26-C25	2.07	125.74	122.73
18	A	853	LHG	C20-C19-C18	-2.07	103.91	114.42
14	A	845	CLA	O2A-CGA-O1A	-2.07	118.37	123.59
16	J	103	BCR	C38-C26-C25	-2.07	122.20	124.53
14	B	3010	CLA	C3C-C4C-NC	-2.07	108.25	110.57
14	B	3033	CLA	CMB-C2B-C3B	2.07	128.54	124.68
14	M	102	CLA	CAC-C3C-C4C	2.07	127.49	124.81
17	A	855	LMG	O1-C7-C8	-2.07	105.92	110.90
16	K	102	BCR	C16-C15-C14	-2.06	119.25	123.47
14	A	845	CLA	C1B-CHB-C4A	-2.06	126.03	130.12
15	B	3042	PQN	C2M-C2-C3	-2.06	121.04	124.40
14	L	205	CLA	CHD-C1D-ND	-2.06	122.56	124.45
14	A	834	CLA	C1-O2A-CGA	2.06	121.85	116.44
14	A	804	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
14	A	824	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
14	A	828	CLA	C1B-CHB-C4A	-2.06	126.04	130.12
14	B	3024	CLA	O1D-CGD-CBD	2.06	128.69	124.48
16	B	3044	BCR	C8-C7-C6	-2.05	121.43	127.20
14	L	205	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
14	B	3038	CLA	C1B-CHB-C4A	-2.05	126.05	130.12
14	B	3011	CLA	O2A-C1-C2	-2.05	103.24	108.64
14	B	3027	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
16	B	3046	BCR	C35-C13-C14	-2.05	120.05	122.92
14	A	832	CLA	O2A-CGA-O1A	-2.05	118.42	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	830	CLA	C1B-CHB-C4A	-2.05	126.06	130.12
14	A	802	CLA	CHB-C4A-NA	2.05	127.34	124.51
14	B	3024	CLA	CAC-C3C-C4C	2.05	127.47	124.81
14	L	203	CLA	C3C-C4C-NC	-2.04	108.28	110.57
14	M	102	CLA	CGD-CBD-CAD	2.04	117.35	110.73
16	I	102	BCR	C30-C25-C26	-2.04	119.74	122.61
14	A	828	CLA	CHD-C1D-ND	-2.04	122.58	124.45
14	A	810	CLA	C1B-CHB-C4A	-2.04	126.08	130.12
16	K	102	BCR	C40-C30-C25	2.04	113.61	110.30
15	B	3042	PQN	C10-C1-C2	2.04	121.86	118.95
14	A	840	CLA	CAC-C3C-C4C	2.04	127.45	124.81
14	A	838	CLA	C1B-CHB-C4A	-2.04	126.08	130.12
14	A	820	CLA	C1-C2-C3	-2.04	122.52	126.04
14	B	3004	CLA	C3C-C4C-NC	-2.04	108.29	110.57
16	B	3044	BCR	C28-C27-C26	-2.03	110.44	114.08
14	B	3028	CLA	CBC-CAC-C3C	-2.03	106.82	112.43
14	A	827	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
14	K	103	CLA	CHB-C4A-NA	2.03	127.32	124.51
16	J	104	BCR	C38-C26-C25	-2.03	122.25	124.53
17	B	3048	LMG	C38-C37-C36	-2.03	104.11	114.42
14	A	805	CLA	CMB-C2B-C3B	2.03	128.48	124.68
14	B	3016	CLA	O2D-CGD-CBD	2.03	114.88	111.27
14	A	817	CLA	CHB-C4A-NA	2.03	127.32	124.51
16	I	105	BCR	C15-C14-C13	-2.03	124.41	127.31
14	A	823	CLA	C2A-C1A-CHA	2.03	127.40	123.86
14	I	101	CLA	C2D-C1D-ND	-2.03	108.61	110.10
14	A	834	CLA	O2A-CGA-O1A	-2.03	118.48	123.59
14	A	811	CLA	O2D-CGD-CBD	2.02	114.86	111.27
16	B	3050	BCR	C35-C13-C12	2.02	121.26	118.08
14	A	808	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
14	M	102	CLA	O2A-CGA-O1A	-2.02	118.26	123.30
14	B	3026	CLA	CHA-C1A-NA	-2.02	121.77	126.40
16	K	102	BCR	C3-C4-C5	-2.02	110.47	114.08
14	B	3033	CLA	C1-C2-C3	-2.02	122.56	126.04
14	A	814	CLA	C2D-C1D-ND	-2.02	108.62	110.10
14	A	839	CLA	CHD-C1D-ND	-2.02	122.60	124.45
14	A	834	CLA	CMB-C2B-C3B	2.02	128.45	124.68
14	B	3013	CLA	C3A-C2A-C1A	2.02	104.36	101.34
16	M	103	BCR	C28-C27-C26	-2.02	110.48	114.08
14	A	840	CLA	CMB-C2B-C3B	2.01	128.45	124.68
14	B	3025	CLA	CHA-C1A-NA	-2.01	121.79	126.40
14	A	817	CLA	O2A-CGA-O1A	-2.01	118.51	123.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A	841	CLA	C3C-C4C-NC	-2.01	108.31	110.57
16	A	851	BCR	C35-C13-C14	-2.01	120.10	122.92
18	M	101	LHG	C20-C19-C18	-2.01	104.21	114.42
14	B	3003	CLA	C3C-C4C-NC	-2.01	108.31	110.57
14	B	3037	CLA	O2A-CGA-O1A	-2.01	118.28	123.30
14	A	816	CLA	O2A-CGA-O1A	-2.01	118.28	123.30
14	B	3020	CLA	CHD-C1D-ND	-2.01	122.61	124.45
14	B	3027	CLA	CHD-C1D-ND	-2.01	122.61	124.45
16	A	850	BCR	C8-C7-C6	-2.01	121.56	127.20
17	B	3048	LMG	C42-C41-C40	-2.01	104.23	114.42
14	B	3007	CLA	C2D-C1D-ND	-2.01	108.62	110.10
14	A	808	CLA	C1B-CHB-C4A	-2.01	126.14	130.12
14	A	816	CLA	CHD-C1D-ND	-2.01	122.61	124.45
18	A	854	LHG	C11-C10-C9	-2.01	104.24	114.42
14	L	203	CLA	C2D-C1D-ND	-2.00	108.63	110.10
16	B	3045	BCR	C7-C8-C9	-2.00	123.21	126.23
14	B	3034	CLA	C3A-C2A-C1A	2.00	104.34	101.34
14	B	3039	CLA	O2D-CGD-O1D	-2.00	119.92	123.84
14	A	845	CLA	CHD-C1D-ND	-2.00	122.62	124.45
16	L	207	BCR	C16-C15-C14	-2.00	119.38	123.47

All (96) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
13	A	801	CL0	NC
13	A	801	CL0	ND
13	A	801	CL0	NA
14	A	802	CLA	ND
14	A	803	CLA	ND
14	A	804	CLA	ND
14	A	805	CLA	ND
14	A	806	CLA	ND
14	A	807	CLA	ND
14	A	808	CLA	ND
14	A	809	CLA	ND
14	A	810	CLA	ND
14	A	811	CLA	ND
14	A	812	CLA	ND
14	A	813	CLA	ND
14	A	814	CLA	ND
14	A	815	CLA	ND
14	A	816	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
14	A	817	CLA	ND
14	A	818	CLA	ND
14	A	819	CLA	ND
14	A	820	CLA	ND
14	A	821	CLA	ND
14	A	822	CLA	ND
14	A	823	CLA	ND
14	A	824	CLA	ND
14	A	825	CLA	ND
14	A	826	CLA	ND
14	A	827	CLA	ND
14	A	828	CLA	ND
14	A	829	CLA	ND
14	A	830	CLA	ND
14	A	831	CLA	ND
14	A	832	CLA	ND
14	A	833	CLA	ND
14	A	834	CLA	ND
14	A	835	CLA	ND
14	A	836	CLA	ND
14	A	837	CLA	ND
14	A	838	CLA	ND
14	A	839	CLA	ND
14	A	840	CLA	ND
14	A	841	CLA	ND
14	A	842	CLA	ND
14	A	843	CLA	ND
14	A	844	CLA	ND
14	A	845	CLA	ND
14	A	856	CLA	ND
14	B	3003	CLA	ND
14	B	3004	CLA	ND
14	B	3005	CLA	ND
14	B	3006	CLA	ND
14	B	3007	CLA	ND
14	B	3008	CLA	ND
14	B	3009	CLA	ND
14	B	3010	CLA	ND
14	B	3011	CLA	ND
14	B	3012	CLA	ND
14	B	3013	CLA	ND
14	B	3014	CLA	ND

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Mol	Chain	Res	Type	Atom
14	B	3015	CLA	ND
14	B	3016	CLA	ND
14	B	3017	CLA	ND
14	B	3018	CLA	ND
14	B	3019	CLA	ND
14	B	3020	CLA	ND
14	B	3021	CLA	ND
14	B	3022	CLA	ND
14	B	3023	CLA	ND
14	B	3024	CLA	ND
14	B	3026	CLA	ND
14	B	3027	CLA	ND
14	B	3028	CLA	ND
14	B	3029	CLA	ND
14	B	3030	CLA	ND
14	B	3031	CLA	ND
14	B	3032	CLA	ND
14	B	3033	CLA	ND
14	B	3034	CLA	ND
14	B	3035	CLA	ND
14	B	3036	CLA	ND
14	B	3037	CLA	ND
14	B	3038	CLA	ND
14	B	3039	CLA	ND
14	B	3041	CLA	ND
14	F	202	CLA	ND
14	I	101	CLA	ND
14	J	101	CLA	ND
14	J	102	CLA	ND
14	K	101	CLA	ND
14	K	103	CLA	ND
14	L	203	CLA	ND
14	L	204	CLA	ND
14	L	205	CLA	ND
14	M	102	CLA	ND
14	X	1701	CLA	ND

All (1281) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	A	801	CL0	C1A-C2A-CAA-CBA
13	A	801	CL0	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	A	806	CLA	C1A-C2A-CAA-CBA
14	A	806	CLA	CAD-CBD-CGD-O1D
14	A	806	CLA	CAD-CBD-CGD-O2D
14	A	806	CLA	CBD-CGD-O2D-CED
14	A	806	CLA	C2-C3-C5-C6
14	A	806	CLA	C4-C3-C5-C6
14	A	807	CLA	CHA-CBD-CGD-O1D
14	A	807	CLA	CHA-CBD-CGD-O2D
14	A	808	CLA	C1A-C2A-CAA-CBA
14	A	808	CLA	C2-C3-C5-C6
14	A	808	CLA	C4-C3-C5-C6
14	A	809	CLA	C1A-C2A-CAA-CBA
14	A	809	CLA	C3A-C2A-CAA-CBA
14	A	811	CLA	C3A-C2A-CAA-CBA
14	A	812	CLA	C1A-C2A-CAA-CBA
14	A	812	CLA	C3A-C2A-CAA-CBA
14	A	817	CLA	CBD-CGD-O2D-CED
14	A	819	CLA	C3A-C2A-CAA-CBA
14	A	819	CLA	CBD-CGD-O2D-CED
14	A	820	CLA	C3A-C2A-CAA-CBA
14	A	820	CLA	C2A-CAA-CBA-CGA
14	A	823	CLA	C1A-C2A-CAA-CBA
14	A	823	CLA	C3A-C2A-CAA-CBA
14	A	823	CLA	CHA-CBD-CGD-O1D
14	A	823	CLA	CHA-CBD-CGD-O2D
14	A	823	CLA	CAD-CBD-CGD-O1D
14	A	824	CLA	C3A-C2A-CAA-CBA
14	A	824	CLA	CHA-CBD-CGD-O1D
14	A	824	CLA	CHA-CBD-CGD-O2D
14	A	829	CLA	CHA-CBD-CGD-O1D
14	A	829	CLA	CHA-CBD-CGD-O2D
14	A	829	CLA	CBD-CGD-O2D-CED
14	A	830	CLA	C2A-CAA-CBA-CGA
14	A	830	CLA	CBD-CGD-O2D-CED
14	A	832	CLA	C1A-C2A-CAA-CBA
14	A	832	CLA	C3A-C2A-CAA-CBA
14	A	835	CLA	C1A-C2A-CAA-CBA
14	A	835	CLA	C3A-C2A-CAA-CBA
14	A	835	CLA	CHA-CBD-CGD-O2D
14	A	837	CLA	C1A-C2A-CAA-CBA
14	A	838	CLA	CBD-CGD-O2D-CED
14	A	840	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
14	A	840	CLA	CHA-CBD-CGD-O2D
14	A	843	CLA	C1A-C2A-CAA-CBA
14	A	844	CLA	CHA-CBD-CGD-O1D
14	A	844	CLA	CHA-CBD-CGD-O2D
14	A	844	CLA	O2A-C1-C2-C3
14	A	845	CLA	CBD-CGD-O2D-CED
14	A	856	CLA	C2-C3-C5-C6
14	A	856	CLA	C4-C3-C5-C6
14	B	3003	CLA	CHA-CBD-CGD-O1D
14	B	3003	CLA	CHA-CBD-CGD-O2D
14	B	3003	CLA	CBD-CGD-O2D-CED
14	B	3004	CLA	CBD-CGD-O2D-CED
14	B	3005	CLA	CBD-CGD-O2D-CED
14	B	3006	CLA	C1A-C2A-CAA-CBA
14	B	3006	CLA	C3A-C2A-CAA-CBA
14	B	3009	CLA	CHA-CBD-CGD-O1D
14	B	3009	CLA	CHA-CBD-CGD-O2D
14	B	3012	CLA	CHA-CBD-CGD-O1D
14	B	3012	CLA	CHA-CBD-CGD-O2D
14	B	3012	CLA	CBD-CGD-O2D-CED
14	B	3016	CLA	CBD-CGD-O2D-CED
14	B	3018	CLA	C1A-C2A-CAA-CBA
14	B	3018	CLA	C3A-C2A-CAA-CBA
14	B	3019	CLA	C3A-C2A-CAA-CBA
14	B	3021	CLA	C1A-C2A-CAA-CBA
14	B	3021	CLA	C3A-C2A-CAA-CBA
14	B	3021	CLA	CHA-CBD-CGD-O1D
14	B	3021	CLA	CHA-CBD-CGD-O2D
14	B	3021	CLA	CAD-CBD-CGD-O1D
14	B	3021	CLA	CAD-CBD-CGD-O2D
14	B	3022	CLA	C1A-C2A-CAA-CBA
14	B	3022	CLA	CBD-CGD-O2D-CED
14	B	3024	CLA	CHA-CBD-CGD-O1D
14	B	3024	CLA	CHA-CBD-CGD-O2D
14	B	3029	CLA	C1A-C2A-CAA-CBA
14	B	3029	CLA	C3A-C2A-CAA-CBA
14	B	3030	CLA	CHA-CBD-CGD-O1D
14	B	3030	CLA	CHA-CBD-CGD-O2D
14	B	3031	CLA	CAD-CBD-CGD-O1D
14	B	3031	CLA	CAD-CBD-CGD-O2D
14	B	3032	CLA	CBD-CGD-O2D-CED
14	B	3033	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
14	B	3035	CLA	CBD-CGD-O2D-CED
14	B	3036	CLA	C1A-C2A-CAA-CBA
14	B	3036	CLA	C3A-C2A-CAA-CBA
14	I	101	CLA	C2A-CAA-CBA-CGA
14	J	101	CLA	C1A-C2A-CAA-CBA
14	J	101	CLA	C3A-C2A-CAA-CBA
14	K	103	CLA	C1A-C2A-CAA-CBA
14	K	103	CLA	C3A-C2A-CAA-CBA
14	L	203	CLA	C1A-C2A-CAA-CBA
14	L	203	CLA	C3A-C2A-CAA-CBA
14	M	102	CLA	CBD-CGD-O2D-CED
16	A	847	BCR	C7-C8-C9-C10
16	A	847	BCR	C16-C17-C18-C36
16	A	847	BCR	C22-C23-C24-C25
16	A	848	BCR	C7-C8-C9-C34
16	A	848	BCR	C11-C10-C9-C8
16	A	848	BCR	C11-C12-C13-C35
16	A	849	BCR	C21-C22-C23-C24
16	A	850	BCR	C7-C8-C9-C34
16	A	850	BCR	C20-C21-C22-C37
16	A	850	BCR	C22-C23-C24-C25
16	A	851	BCR	C7-C8-C9-C34
16	A	851	BCR	C11-C10-C9-C8
16	A	851	BCR	C11-C10-C9-C34
16	A	851	BCR	C11-C12-C13-C35
16	A	851	BCR	C18-C19-C20-C21
16	A	851	BCR	C20-C21-C22-C23
16	A	851	BCR	C20-C21-C22-C37
16	A	851	BCR	C21-C22-C23-C24
16	A	851	BCR	C22-C23-C24-C25
16	A	851	BCR	C23-C24-C25-C26
16	A	851	BCR	C23-C24-C25-C30
16	B	3043	BCR	C7-C8-C9-C34
16	B	3043	BCR	C21-C22-C23-C24
16	B	3044	BCR	C6-C7-C8-C9
16	B	3044	BCR	C7-C8-C9-C34
16	B	3044	BCR	C11-C10-C9-C8
16	B	3044	BCR	C11-C12-C13-C35
16	B	3044	BCR	C21-C22-C23-C24
16	B	3045	BCR	C11-C10-C9-C8
16	B	3045	BCR	C11-C10-C9-C34
16	B	3045	BCR	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
16	B	3046	BCR	C7-C8-C9-C10
16	B	3046	BCR	C7-C8-C9-C34
16	B	3046	BCR	C10-C11-C12-C13
16	B	3046	BCR	C11-C12-C13-C35
16	B	3046	BCR	C16-C17-C18-C36
16	B	3046	BCR	C20-C21-C22-C37
16	B	3046	BCR	C23-C24-C25-C30
16	B	3047	BCR	C18-C19-C20-C21
16	B	3050	BCR	C11-C12-C13-C14
16	B	3050	BCR	C11-C12-C13-C35
16	F	201	BCR	C37-C22-C23-C24
16	F	201	BCR	C23-C24-C25-C30
16	F	203	BCR	C7-C8-C9-C34
16	F	203	BCR	C12-C13-C14-C15
16	I	102	BCR	C7-C8-C9-C34
16	I	102	BCR	C20-C21-C22-C23
16	I	102	BCR	C37-C22-C23-C24
16	I	103	BCR	C7-C8-C9-C34
16	I	103	BCR	C11-C10-C9-C8
16	I	103	BCR	C20-C21-C22-C23
16	I	103	BCR	C20-C21-C22-C37
16	I	105	BCR	C7-C8-C9-C34
16	I	105	BCR	C11-C10-C9-C34
16	I	105	BCR	C11-C12-C13-C14
16	I	105	BCR	C11-C12-C13-C35
16	I	105	BCR	C36-C18-C19-C20
16	I	105	BCR	C20-C21-C22-C37
16	I	105	BCR	C37-C22-C23-C24
16	J	103	BCR	C1-C6-C7-C8
16	J	103	BCR	C5-C6-C7-C8
16	J	103	BCR	C11-C12-C13-C35
16	J	103	BCR	C35-C13-C14-C15
16	J	103	BCR	C37-C22-C23-C24
16	J	104	BCR	C1-C6-C7-C8
16	J	104	BCR	C5-C6-C7-C8
16	J	104	BCR	C7-C8-C9-C34
16	J	104	BCR	C11-C12-C13-C35
16	J	104	BCR	C21-C22-C23-C24
16	J	104	BCR	C37-C22-C23-C24
16	J	104	BCR	C23-C24-C25-C26
16	J	105	BCR	C7-C8-C9-C10
16	J	105	BCR	C7-C8-C9-C34

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Mol	Chain	Res	Type	Atoms
16	J	105	BCR	C11-C12-C13-C14
16	J	105	BCR	C16-C17-C18-C36
16	J	105	BCR	C22-C23-C24-C25
16	K	102	BCR	C16-C17-C18-C36
16	K	102	BCR	C18-C19-C20-C21
16	K	102	BCR	C21-C22-C23-C24
16	K	102	BCR	C37-C22-C23-C24
16	L	207	BCR	C6-C7-C8-C9
16	L	207	BCR	C7-C8-C9-C10
16	L	207	BCR	C7-C8-C9-C34
16	L	207	BCR	C11-C10-C9-C8
16	L	207	BCR	C11-C10-C9-C34
16	L	207	BCR	C11-C12-C13-C35
16	M	103	BCR	C1-C6-C7-C8
16	M	103	BCR	C5-C6-C7-C8
16	M	103	BCR	C11-C10-C9-C8
17	A	852	LMG	O9-C10-O7-C8
17	A	855	LMG	O6-C1-O1-C7
17	A	855	LMG	O9-C10-O7-C8
17	B	3048	LMG	C2-C1-O1-C7
17	B	3048	LMG	O6-C1-O1-C7
17	I	104	LMG	C2-C1-O1-C7
17	I	104	LMG	O6-C1-O1-C7
18	A	853	LHG	C3-O3-P-O5
18	A	854	LHG	C1-C2-C3-O3
18	B	3049	LHG	C1-C2-C3-O3
18	B	3049	LHG	C3-O3-P-O4
18	B	3049	LHG	C3-O3-P-O6
18	B	3049	LHG	C4-O6-P-O3
18	B	3049	LHG	C4-O6-P-O4
18	B	3049	LHG	C4-O6-P-O5
18	B	3049	LHG	C8-C7-O7-C5
18	M	101	LHG	C3-O3-P-O4
18	M	101	LHG	C4-O6-P-O3
21	L	201	LMT	C2'-C1'-O1'-C1
21	L	201	LMT	O5'-C1'-O1'-C1
22	L	206	DGD	O6D-C1D-O3G-C3G
22	L	206	DGD	C2E-C1E-O5D-C6D
22	L	206	DGD	O6E-C1E-O5D-C6D
14	A	807	CLA	O1D-CGD-O2D-CED
14	A	817	CLA	O1D-CGD-O2D-CED
14	A	820	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
14	A	845	CLA	O1D-CGD-O2D-CED
14	B	3003	CLA	O1D-CGD-O2D-CED
14	B	3012	CLA	O1D-CGD-O2D-CED
14	B	3013	CLA	O1D-CGD-O2D-CED
14	B	3032	CLA	O1D-CGD-O2D-CED
14	B	3035	CLA	O1D-CGD-O2D-CED
14	A	807	CLA	CBD-CGD-O2D-CED
14	A	820	CLA	CBD-CGD-O2D-CED
14	A	822	CLA	CBD-CGD-O2D-CED
14	A	823	CLA	CBD-CGD-O2D-CED
14	A	836	CLA	CBD-CGD-O2D-CED
14	A	841	CLA	CBD-CGD-O2D-CED
14	A	842	CLA	CBD-CGD-O2D-CED
14	B	3006	CLA	CBD-CGD-O2D-CED
14	B	3013	CLA	CBD-CGD-O2D-CED
14	B	3020	CLA	CBD-CGD-O2D-CED
14	B	3034	CLA	CBD-CGD-O2D-CED
14	B	3036	CLA	CBD-CGD-O2D-CED
14	B	3037	CLA	CBD-CGD-O2D-CED
14	F	202	CLA	CBD-CGD-O2D-CED
14	A	822	CLA	O1D-CGD-O2D-CED
14	A	823	CLA	O1D-CGD-O2D-CED
14	A	829	CLA	O1D-CGD-O2D-CED
14	B	3004	CLA	O1D-CGD-O2D-CED
14	B	3006	CLA	O1D-CGD-O2D-CED
14	B	3022	CLA	O1D-CGD-O2D-CED
14	B	3036	CLA	O1D-CGD-O2D-CED
14	B	3037	CLA	O1D-CGD-O2D-CED
14	A	838	CLA	O1D-CGD-O2D-CED
13	A	801	CL0	CBD-CGD-O2D-CED
14	A	812	CLA	CBD-CGD-O2D-CED
14	A	844	CLA	CBD-CGD-O2D-CED
14	B	3015	CLA	CBD-CGD-O2D-CED
14	B	3021	CLA	CBD-CGD-O2D-CED
14	B	3025	CLA	CBD-CGD-O2D-CED
13	A	801	CL0	O1A-CGA-O2A-C1
14	A	806	CLA	O1A-CGA-O2A-C1
14	A	820	CLA	O1A-CGA-O2A-C1
14	A	845	CLA	O1A-CGA-O2A-C1
18	M	101	LHG	O10-C23-O8-C6
14	B	3005	CLA	O1D-CGD-O2D-CED
14	B	3016	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
14	M	102	CLA	O1D-CGD-O2D-CED
14	A	806	CLA	O1D-CGD-O2D-CED
14	A	819	CLA	O1D-CGD-O2D-CED
14	A	856	CLA	CBD-CGD-O2D-CED
14	B	3023	CLA	CBD-CGD-O2D-CED
14	B	3031	CLA	CBD-CGD-O2D-CED
14	B	3034	CLA	O1D-CGD-O2D-CED
14	A	830	CLA	O1D-CGD-O2D-CED
14	A	820	CLA	C3-C5-C6-C7
14	A	830	CLA	C3-C5-C6-C7
14	B	3003	CLA	C3-C5-C6-C7
14	B	3005	CLA	C3-C5-C6-C7
14	B	3027	CLA	C3-C5-C6-C7
14	B	3033	CLA	C3-C5-C6-C7
14	I	101	CLA	C3-C5-C6-C7
13	A	801	CL0	CBA-CGA-O2A-C1
14	A	820	CLA	CBA-CGA-O2A-C1
14	B	3032	CLA	CBA-CGA-O2A-C1
18	M	101	LHG	C24-C23-O8-C6
17	A	855	LMG	C11-C10-O7-C8
14	B	3020	CLA	O1D-CGD-O2D-CED
14	B	3029	CLA	CBD-CGD-O2D-CED
14	I	101	CLA	C2C-C3C-CAC-CBC
21	L	201	LMT	C3'-C4'-O1B-C1B
14	B	3025	CLA	C4-C3-C5-C6
14	B	3040	CLA	CBD-CGD-O2D-CED
14	A	808	CLA	C2A-CAA-CBA-CGA
14	B	3013	CLA	C2A-CAA-CBA-CGA
14	B	3016	CLA	C2A-CAA-CBA-CGA
14	B	3029	CLA	C2A-CAA-CBA-CGA
14	A	806	CLA	CBA-CGA-O2A-C1
14	A	817	CLA	CBA-CGA-O2A-C1
14	A	825	CLA	CBA-CGA-O2A-C1
14	A	838	CLA	CBA-CGA-O2A-C1
14	A	845	CLA	CBA-CGA-O2A-C1
14	L	203	CLA	CBA-CGA-O2A-C1
22	L	206	DGD	C2A-C1A-O1G-C1G
14	F	202	CLA	O1D-CGD-O2D-CED
14	A	842	CLA	O1D-CGD-O2D-CED
18	B	3049	LHG	O9-C7-O7-C5
14	A	825	CLA	O1A-CGA-O2A-C1
14	A	829	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
14	A	838	CLA	O1A-CGA-O2A-C1
14	L	203	CLA	O1A-CGA-O2A-C1
14	A	841	CLA	O1D-CGD-O2D-CED
14	A	804	CLA	CBD-CGD-O2D-CED
14	A	813	CLA	CBD-CGD-O2D-CED
14	A	816	CLA	CBD-CGD-O2D-CED
14	A	831	CLA	CBD-CGD-O2D-CED
14	A	837	CLA	CBD-CGD-O2D-CED
14	B	3011	CLA	CBD-CGD-O2D-CED
14	B	3030	CLA	CBD-CGD-O2D-CED
14	J	101	CLA	CBD-CGD-O2D-CED
14	A	836	CLA	O1D-CGD-O2D-CED
18	A	854	LHG	O2-C2-C3-O3
14	A	856	CLA	C3-C5-C6-C7
14	B	3018	CLA	C3-C5-C6-C7
14	A	812	CLA	CBA-CGA-O2A-C1
14	A	829	CLA	CBA-CGA-O2A-C1
14	B	3032	CLA	O1A-CGA-O2A-C1
17	B	3048	LMG	O6-C5-C6-O5
14	A	845	CLA	C2C-C3C-CAC-CBC
14	A	825	CLA	CBD-CGD-O2D-CED
14	A	817	CLA	O1A-CGA-O2A-C1
22	L	206	DGD	O1A-C1A-O1G-C1G
15	A	846	PQN	C14-C13-C15-C16
17	B	3048	LMG	C4-C5-C6-O5
14	B	3025	CLA	C2-C3-C5-C6
15	A	846	PQN	C12-C13-C15-C16
14	M	102	CLA	C2A-CAA-CBA-CGA
21	L	201	LMT	O5B-C5B-C6B-O6B
14	A	808	CLA	CBA-CGA-O2A-C1
14	A	809	CLA	CBA-CGA-O2A-C1
14	B	3021	CLA	CBA-CGA-O2A-C1
14	A	812	CLA	O1A-CGA-O2A-C1
14	A	812	CLA	O1D-CGD-O2D-CED
14	A	844	CLA	O1D-CGD-O2D-CED
14	A	808	CLA	O1A-CGA-O2A-C1
14	A	809	CLA	C3-C5-C6-C7
14	A	805	CLA	CBA-CGA-O2A-C1
14	A	823	CLA	CBA-CGA-O2A-C1
14	A	836	CLA	CBA-CGA-O2A-C1
14	A	840	CLA	CBA-CGA-O2A-C1
14	A	843	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
14	B	3017	CLA	CBA-CGA-O2A-C1
14	B	3021	CLA	O1A-CGA-O2A-C1
14	B	3030	CLA	C15-C16-C17-C18
14	B	3015	CLA	O1D-CGD-O2D-CED
17	A	855	LMG	C2-C1-O1-C7
18	A	853	LHG	O10-C23-O8-C6
17	I	104	LMG	O6-C5-C6-O5
14	A	802	CLA	C14-C13-C15-C16
14	A	803	CLA	C14-C13-C15-C16
14	A	812	CLA	C14-C13-C15-C16
14	B	3009	CLA	C14-C13-C15-C16
14	B	3020	CLA	C11-C12-C13-C14
14	B	3027	CLA	C11-C10-C8-C9
14	I	101	CLA	C14-C13-C15-C16
15	A	846	PQN	C16-C17-C18-C19
14	A	811	CLA	CBD-CGD-O2D-CED
14	A	829	CLA	C13-C15-C16-C17
14	B	3004	CLA	C15-C16-C17-C18
14	I	101	CLA	C8-C10-C11-C12
16	A	849	BCR	C36-C18-C19-C20
16	B	3043	BCR	C37-C22-C23-C24
16	F	201	BCR	C7-C8-C9-C34
16	J	105	BCR	C11-C12-C13-C35
16	A	847	BCR	C11-C12-C13-C14
16	B	3050	BCR	C21-C22-C23-C24
14	A	823	CLA	O1A-CGA-O2A-C1
14	A	840	CLA	O1A-CGA-O2A-C1
14	B	3003	CLA	C8-C10-C11-C12
14	B	3021	CLA	O1D-CGD-O2D-CED
14	I	101	CLA	C4C-C3C-CAC-CBC
14	A	826	CLA	CBA-CGA-O2A-C1
14	B	3019	CLA	CBA-CGA-O2A-C1
14	A	807	CLA	C5-C6-C7-C8
14	B	3023	CLA	C5-C6-C7-C8
15	B	3042	PQN	C20-C21-C22-C23
15	B	3042	PQN	C23-C25-C26-C27
17	A	852	LMG	C28-C29-C30-C31
14	A	802	CLA	C15-C16-C17-C18
14	A	825	CLA	C8-C10-C11-C12
14	A	830	CLA	C8-C10-C11-C12
14	A	843	CLA	O1A-CGA-O2A-C1
14	B	3017	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
13	A	801	CL0	C13-C15-C16-C17
14	A	834	CLA	C5-C6-C7-C8
14	A	856	CLA	CBA-CGA-O2A-C1
14	B	3018	CLA	CBA-CGA-O2A-C1
14	A	806	CLA	C2-C1-O2A-CGA
21	L	201	LMT	C4B-C5B-C6B-O6B
14	A	831	CLA	C10-C11-C12-C13
14	B	3028	CLA	C8-C10-C11-C12
14	B	3010	CLA	CBD-CGD-O2D-CED
14	B	3004	CLA	C10-C11-C12-C13
14	L	203	CLA	C11-C12-C13-C15
14	A	805	CLA	O1A-CGA-O2A-C1
14	A	845	CLA	C4C-C3C-CAC-CBC
17	A	855	LMG	C10-C11-C12-C13
13	A	801	CL0	C2A-CAA-CBA-CGA
14	B	3005	CLA	C2A-CAA-CBA-CGA
14	B	3033	CLA	C2A-CAA-CBA-CGA
13	A	801	CL0	O1D-CGD-O2D-CED
14	B	3023	CLA	O1D-CGD-O2D-CED
14	B	3025	CLA	O1D-CGD-O2D-CED
14	A	833	CLA	C10-C11-C12-C13
14	B	3017	CLA	O1A-CGA-O2A-C1
14	B	3019	CLA	O1A-CGA-O2A-C1
14	L	205	CLA	CBD-CGD-O2D-CED
16	A	847	BCR	C18-C19-C20-C21
16	B	3043	BCR	C18-C19-C20-C21
16	B	3044	BCR	C10-C11-C12-C13
16	B	3050	BCR	C10-C11-C12-C13
16	F	201	BCR	C18-C19-C20-C21
16	J	104	BCR	C18-C19-C20-C21
16	J	105	BCR	C18-C19-C20-C21
18	B	3049	LHG	O2-C2-C3-O3
14	A	802	CLA	C3-C5-C6-C7
14	A	833	CLA	C5-C6-C7-C8
14	B	3004	CLA	C13-C15-C16-C17
14	B	3006	CLA	C13-C15-C16-C17
14	B	3011	CLA	C13-C15-C16-C17
14	B	3029	CLA	C15-C16-C17-C18
14	B	3031	CLA	O1D-CGD-O2D-CED
14	A	809	CLA	O1A-CGA-O2A-C1
14	A	826	CLA	O1A-CGA-O2A-C1
14	A	836	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
17	I	104	LMG	O10-C28-O8-C9
14	A	809	CLA	C5-C6-C7-C8
14	A	810	CLA	C15-C16-C17-C18
14	A	822	CLA	C15-C16-C17-C18
14	A	826	CLA	C15-C16-C17-C18
14	B	3010	CLA	C8-C10-C11-C12
15	A	846	PQN	C25-C26-C27-C28
14	A	856	CLA	O1D-CGD-O2D-CED
14	B	3018	CLA	O1A-CGA-O2A-C1
14	B	3040	CLA	O1D-CGD-O2D-CED
14	B	3014	CLA	C13-C15-C16-C17
14	B	3034	CLA	C5-C6-C7-C8
18	M	101	LHG	C3-O3-P-O6
14	A	804	CLA	CBA-CGA-O2A-C1
18	A	853	LHG	C24-C23-O8-C6
14	A	803	CLA	C13-C15-C16-C17
14	A	804	CLA	C10-C11-C12-C13
17	I	104	LMG	O9-C10-O7-C8
14	A	803	CLA	CBD-CGD-O2D-CED
14	B	3029	CLA	O1D-CGD-O2D-CED
14	A	856	CLA	C2A-CAA-CBA-CGA
14	K	101	CLA	C2A-CAA-CBA-CGA
14	K	103	CLA	C2A-CAA-CBA-CGA
14	A	806	CLA	C16-C17-C18-C20
14	A	856	CLA	O1A-CGA-O2A-C1
14	A	814	CLA	C8-C10-C11-C12
16	A	847	BCR	C20-C21-C22-C37
16	A	848	BCR	C20-C21-C22-C37
16	A	849	BCR	C16-C17-C18-C36
16	A	850	BCR	C16-C17-C18-C36
16	B	3043	BCR	C20-C21-C22-C37
16	B	3044	BCR	C20-C21-C22-C37
16	B	3046	BCR	C11-C10-C9-C34
16	B	3047	BCR	C11-C10-C9-C34
16	B	3050	BCR	C16-C17-C18-C36
16	F	201	BCR	C20-C21-C22-C37
16	F	203	BCR	C35-C13-C14-C15
16	F	203	BCR	C16-C17-C18-C36
16	F	203	BCR	C20-C21-C22-C37
16	I	105	BCR	C16-C17-C18-C36
16	J	103	BCR	C16-C17-C18-C36
16	J	104	BCR	C11-C10-C9-C34

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Mol	Chain	Res	Type	Atoms
16	K	102	BCR	C11-C10-C9-C34
16	L	207	BCR	C35-C13-C14-C15
16	M	103	BCR	C11-C10-C9-C34
18	M	101	LHG	C32-C33-C34-C35
14	A	820	CLA	C16-C17-C18-C19
17	A	855	LMG	C16-C17-C18-C19
22	L	206	DGD	C4B-C5B-C6B-C7B
14	A	816	CLA	O1D-CGD-O2D-CED
18	A	853	LHG	O2-C2-C3-O3
17	B	3048	LMG	C17-C18-C19-C20
14	A	833	CLA	C3-C5-C6-C7
16	A	847	BCR	C16-C17-C18-C19
16	A	850	BCR	C20-C21-C22-C23
16	B	3045	BCR	C12-C13-C14-C15
16	B	3050	BCR	C11-C10-C9-C8
16	B	3050	BCR	C16-C17-C18-C19
16	I	102	BCR	C11-C10-C9-C8
16	I	105	BCR	C11-C10-C9-C8
16	I	105	BCR	C20-C21-C22-C23
16	J	103	BCR	C12-C13-C14-C15
16	J	103	BCR	C16-C17-C18-C19
16	J	105	BCR	C16-C17-C18-C19
16	K	102	BCR	C11-C10-C9-C8
14	A	811	CLA	C2C-C3C-CAC-CBC
14	B	3009	CLA	C13-C15-C16-C17
14	A	839	CLA	C16-C17-C18-C20
14	B	3007	CLA	C16-C17-C18-C20
14	L	205	CLA	C16-C17-C18-C19
15	A	846	PQN	C26-C27-C28-C29
14	J	101	CLA	O1D-CGD-O2D-CED
14	B	3008	CLA	C4-C3-C5-C6
14	B	3033	CLA	C4-C3-C5-C6
14	A	836	CLA	C5-C6-C7-C8
17	A	852	LMG	C17-C18-C19-C20
18	M	101	LHG	C14-C15-C16-C17
14	A	805	CLA	C6-C7-C8-C9
14	A	828	CLA	C14-C13-C15-C16
14	A	830	CLA	C11-C12-C13-C14
17	A	852	LMG	C23-C24-C25-C26
17	A	852	LMG	C33-C34-C35-C36
14	A	844	CLA	C2A-CAA-CBA-CGA
16	A	847	BCR	C11-C12-C13-C35

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Mol	Chain	Res	Type	Atoms
16	B	3050	BCR	C37-C22-C23-C24
18	B	3049	LHG	O1-C1-C2-C3
18	M	101	LHG	O1-C1-C2-C3
14	A	804	CLA	C3-C5-C6-C7
14	A	813	CLA	C3-C5-C6-C7
14	B	3020	CLA	C3-C5-C6-C7
17	A	852	LMG	C11-C10-O7-C8
17	I	104	LMG	C11-C10-O7-C8
18	A	853	LHG	C8-C7-O7-C5
18	M	101	LHG	C7-C8-C9-C10
22	L	206	DGD	C1B-C2B-C3B-C4B
17	A	855	LMG	C13-C14-C15-C16
18	M	101	LHG	C25-C26-C27-C28
14	A	806	CLA	C16-C17-C18-C19
14	A	820	CLA	C16-C17-C18-C20
14	B	3033	CLA	C16-C17-C18-C20
15	A	846	PQN	C26-C27-C28-C30
14	A	820	CLA	C13-C15-C16-C17
17	I	104	LMG	C18-C19-C20-C21
22	L	206	DGD	C5B-C6B-C7B-C8B
14	B	3024	CLA	CBD-CGD-O2D-CED
14	A	804	CLA	O1D-CGD-O2D-CED
14	A	813	CLA	O1D-CGD-O2D-CED
14	B	3030	CLA	O1D-CGD-O2D-CED
17	A	852	LMG	C20-C21-C22-C23
17	B	3048	LMG	C34-C35-C36-C37
15	A	846	PQN	C15-C16-C17-C18
14	A	804	CLA	O1A-CGA-O2A-C1
17	A	852	LMG	C11-C12-C13-C14
14	A	825	CLA	O1D-CGD-O2D-CED
14	A	831	CLA	O1D-CGD-O2D-CED
14	A	804	CLA	C3A-C2A-CAA-CBA
14	A	806	CLA	C3A-C2A-CAA-CBA
14	A	826	CLA	C3A-C2A-CAA-CBA
14	A	842	CLA	C3A-C2A-CAA-CBA
14	A	843	CLA	C3A-C2A-CAA-CBA
15	A	846	PQN	C20-C21-C22-C23
21	L	201	LMT	C2-C1-O1'-C1'
17	A	852	LMG	C30-C31-C32-C33
18	A	853	LHG	C12-C13-C14-C15
14	A	837	CLA	O1D-CGD-O2D-CED
13	A	801	CL0	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
17	A	855	LMG	C18-C19-C20-C21
14	B	3033	CLA	C2-C3-C5-C6
14	B	3011	CLA	C8-C10-C11-C12
17	B	3048	LMG	C14-C15-C16-C17
14	B	3011	CLA	O1D-CGD-O2D-CED
17	B	3048	LMG	C35-C36-C37-C38
22	L	206	DGD	C9B-CAB-CBB-CCB
21	L	201	LMT	C1-C2-C3-C4
14	A	829	CLA	C3-C5-C6-C7
17	B	3048	LMG	C23-C24-C25-C26
14	B	3019	CLA	C8-C10-C11-C12
17	A	852	LMG	C16-C17-C18-C19
18	M	101	LHG	C33-C34-C35-C36
14	A	808	CLA	C2-C1-O2A-CGA
14	A	826	CLA	C2-C1-O2A-CGA
14	B	3033	CLA	C2-C1-O2A-CGA
16	A	847	BCR	C23-C24-C25-C26
16	A	847	BCR	C23-C24-C25-C30
16	A	849	BCR	C1-C6-C7-C8
16	A	849	BCR	C5-C6-C7-C8
16	A	849	BCR	C23-C24-C25-C26
16	A	849	BCR	C23-C24-C25-C30
16	A	851	BCR	C1-C6-C7-C8
16	A	851	BCR	C5-C6-C7-C8
16	B	3044	BCR	C1-C6-C7-C8
16	B	3044	BCR	C5-C6-C7-C8
16	B	3046	BCR	C23-C24-C25-C26
16	B	3050	BCR	C1-C6-C7-C8
16	B	3050	BCR	C5-C6-C7-C8
16	F	203	BCR	C1-C6-C7-C8
16	F	203	BCR	C5-C6-C7-C8
16	F	203	BCR	C23-C24-C25-C26
16	F	203	BCR	C23-C24-C25-C30
16	I	105	BCR	C23-C24-C25-C30
16	J	104	BCR	C23-C24-C25-C30
16	J	105	BCR	C1-C6-C7-C8
16	J	105	BCR	C5-C6-C7-C8
16	K	102	BCR	C23-C24-C25-C26
16	K	102	BCR	C23-C24-C25-C30
16	L	207	BCR	C1-C6-C7-C8
16	L	207	BCR	C5-C6-C7-C8
16	M	103	BCR	C23-C24-C25-C26

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
16	M	103	BCR	C23-C24-C25-C30
14	A	818	CLA	CBA-CGA-O2A-C1
17	I	104	LMG	C29-C28-O8-C9
14	A	844	CLA	C5-C6-C7-C8
18	M	101	LHG	C23-C24-C25-C26
14	B	3019	CLA	C5-C6-C7-C8
14	A	812	CLA	C12-C13-C15-C16
14	A	822	CLA	C12-C13-C15-C16
14	A	827	CLA	C12-C13-C15-C16
14	A	828	CLA	C12-C13-C15-C16
14	A	830	CLA	C11-C12-C13-C15
14	A	834	CLA	C12-C13-C15-C16
14	B	3008	CLA	C2-C3-C5-C6
14	B	3010	CLA	C6-C7-C8-C10
14	B	3018	CLA	C11-C10-C8-C7
14	B	3027	CLA	C11-C10-C8-C7
14	I	101	CLA	C12-C13-C15-C16
15	B	3042	PQN	C21-C22-C23-C25
14	A	822	CLA	C3-C5-C6-C7
14	B	3039	CLA	C13-C15-C16-C17
16	A	847	BCR	C15-C16-C17-C18
14	A	844	CLA	CBA-CGA-O2A-C1
14	B	3034	CLA	CBA-CGA-O2A-C1
17	I	104	LMG	C15-C16-C17-C18
17	A	852	LMG	C18-C19-C20-C21
22	L	206	DGD	C2B-C3B-C4B-C5B
14	A	820	CLA	C15-C16-C17-C18
18	A	854	LHG	C11-C10-C9-C8
14	B	3010	CLA	C16-C17-C18-C20
14	L	205	CLA	C16-C17-C18-C20
14	B	3030	CLA	C8-C10-C11-C12
14	B	3038	CLA	C5-C6-C7-C8
14	B	3010	CLA	O1D-CGD-O2D-CED
16	I	103	BCR	C10-C11-C12-C13
14	A	839	CLA	C8-C10-C11-C12
17	A	852	LMG	C22-C23-C24-C25
17	A	852	LMG	C2-C1-O1-C7
22	L	206	DGD	C2D-C1D-O3G-C3G
18	A	853	LHG	O7-C5-C6-O8
14	A	826	CLA	C4-C3-C5-C6
14	A	807	CLA	C11-C12-C13-C14
14	A	827	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
14	A	833	CLA	C11-C10-C8-C9
14	A	834	CLA	C14-C13-C15-C16
14	B	3010	CLA	C6-C7-C8-C9
14	B	3018	CLA	C11-C10-C8-C9
14	B	3039	CLA	C11-C10-C8-C9
14	L	203	CLA	C11-C12-C13-C14
17	A	855	LMG	O6-C5-C6-O5
14	B	3018	CLA	C10-C11-C12-C13
14	B	3025	CLA	C3-C5-C6-C7
16	A	848	BCR	C37-C22-C23-C24
14	A	830	CLA	C5-C6-C7-C8
16	J	103	BCR	C11-C12-C13-C14
14	A	818	CLA	O1A-CGA-O2A-C1
14	A	844	CLA	O1A-CGA-O2A-C1
14	A	804	CLA	C1A-C2A-CAA-CBA
14	A	811	CLA	C1A-C2A-CAA-CBA
14	A	819	CLA	C1A-C2A-CAA-CBA
14	A	820	CLA	C1A-C2A-CAA-CBA
14	A	824	CLA	C1A-C2A-CAA-CBA
14	A	826	CLA	C1A-C2A-CAA-CBA
14	A	842	CLA	C1A-C2A-CAA-CBA
14	B	3019	CLA	C1A-C2A-CAA-CBA
14	B	3020	CLA	C1A-C2A-CAA-CBA
13	A	801	CL0	C16-C17-C18-C19
14	A	839	CLA	C16-C17-C18-C19
14	B	3010	CLA	C16-C17-C18-C19
14	B	3033	CLA	C16-C17-C18-C19
18	A	854	LHG	O9-C7-O7-C5
18	M	101	LHG	C30-C31-C32-C33
14	A	830	CLA	C10-C11-C12-C13
18	M	101	LHG	C26-C27-C28-C29
14	A	819	CLA	C3-C5-C6-C7
14	B	3014	CLA	CBA-CGA-O2A-C1
14	B	3008	CLA	C2C-C3C-CAC-CBC
17	B	3048	LMG	C41-C42-C43-C44
14	B	3028	CLA	C3-C5-C6-C7
18	M	101	LHG	C11-C10-C9-C8
14	A	839	CLA	C10-C11-C12-C13
14	A	841	CLA	C5-C6-C7-C8
17	B	3048	LMG	C31-C32-C33-C34
17	A	852	LMG	O10-C28-O8-C9
17	I	104	LMG	O1-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
18	A	853	LHG	C4-C5-C6-O8
18	A	853	LHG	C30-C31-C32-C33
18	M	101	LHG	C4-C5-C6-O8
14	A	825	CLA	C11-C12-C13-C14
22	L	206	DGD	C7A-C8A-C9A-CAA
14	B	3034	CLA	O1A-CGA-O2A-C1
14	A	810	CLA	C10-C11-C12-C13
14	B	3033	CLA	C5-C6-C7-C8
17	A	852	LMG	C35-C36-C37-C38
14	A	826	CLA	C10-C11-C12-C13
16	A	851	BCR	C16-C17-C18-C36
16	B	3043	BCR	C11-C10-C9-C34
14	B	3010	CLA	C10-C11-C12-C13
14	B	3015	CLA	C8-C10-C11-C12
18	M	101	LHG	C17-C18-C19-C20
14	B	3010	CLA	C2C-C3C-CAC-CBC
14	I	101	CLA	C15-C16-C17-C18
18	A	854	LHG	C9-C10-C11-C12
14	A	817	CLA	C2C-C3C-CAC-CBC
17	B	3048	LMG	C30-C31-C32-C33
14	A	822	CLA	C13-C15-C16-C17
14	A	803	CLA	O1D-CGD-O2D-CED
14	A	811	CLA	O1D-CGD-O2D-CED
16	A	847	BCR	C11-C10-C9-C8
18	M	101	LHG	O7-C5-C6-O8
14	A	813	CLA	C6-C7-C8-C9
14	B	3025	CLA	C5-C6-C7-C8
14	L	205	CLA	C10-C11-C12-C13
14	A	802	CLA	C12-C13-C15-C16
14	A	807	CLA	C11-C12-C13-C15
14	A	830	CLA	C6-C7-C8-C10
14	A	833	CLA	C11-C10-C8-C7
14	A	834	CLA	C11-C10-C8-C7
14	A	841	CLA	C6-C7-C8-C10
14	A	856	CLA	C11-C10-C8-C7
14	B	3007	CLA	C11-C12-C13-C15
14	B	3010	CLA	C11-C10-C8-C7
14	B	3027	CLA	C11-C12-C13-C15
14	B	3030	CLA	C12-C13-C15-C16
14	B	3039	CLA	C11-C10-C8-C7
15	A	846	PQN	C16-C17-C18-C20
14	A	822	CLA	C14-C13-C15-C16

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atoms</b>
14	A	828	CLA	C11-C10-C8-C9
14	A	834	CLA	C11-C10-C8-C9
14	A	841	CLA	C6-C7-C8-C9
14	A	856	CLA	C11-C10-C8-C9
14	B	3007	CLA	C11-C12-C13-C14
14	B	3019	CLA	C6-C7-C8-C9
14	B	3029	CLA	C14-C13-C15-C16
14	B	3030	CLA	C11-C10-C8-C9
14	B	3039	CLA	C11-C12-C13-C14
14	L	203	CLA	C14-C13-C15-C16
16	B	3043	BCR	C14-C15-C16-C17
14	B	3008	CLA	CBA-CGA-O2A-C1
14	B	3039	CLA	C5-C6-C7-C8
15	B	3042	PQN	C18-C20-C21-C22
14	B	3014	CLA	O1A-CGA-O2A-C1
22	L	206	DGD	CDB-CEB-CFB-CGB
14	B	3017	CLA	O1D-CGD-O2D-CED
14	A	811	CLA	C4C-C3C-CAC-CBC
14	A	827	CLA	C5-C6-C7-C8
14	B	3006	CLA	CBA-CGA-O2A-C1
14	B	3029	CLA	CBA-CGA-O2A-C1
17	A	852	LMG	C14-C15-C16-C17
14	B	3029	CLA	C5-C6-C7-C8
16	J	104	BCR	C6-C7-C8-C9
14	B	3007	CLA	C16-C17-C18-C19
22	L	206	DGD	CAA-CBA-CCA-CDA
14	B	3028	CLA	C10-C11-C12-C13
14	A	822	CLA	C4-C3-C5-C6
14	A	826	CLA	C2-C3-C5-C6
14	B	3011	CLA	C5-C6-C7-C8
18	A	853	LHG	C24-C25-C26-C27
14	A	803	CLA	C3-C5-C6-C7
22	L	206	DGD	C3A-C4A-C5A-C6A
14	A	827	CLA	CBA-CGA-O2A-C1
14	A	808	CLA	C3A-C2A-CAA-CBA
14	A	837	CLA	C3A-C2A-CAA-CBA
14	B	3020	CLA	C3A-C2A-CAA-CBA
14	B	3022	CLA	C3A-C2A-CAA-CBA
14	B	3033	CLA	C3A-C2A-CAA-CBA
14	B	3028	CLA	CBA-CGA-O2A-C1
14	B	3040	CLA	CBA-CGA-O2A-C1
17	A	852	LMG	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
14	A	806	CLA	C13-C15-C16-C17
14	A	820	CLA	C8-C10-C11-C12
14	B	3015	CLA	C5-C6-C7-C8
14	B	3033	CLA	C10-C11-C12-C13
21	L	201	LMT	C5'-C4'-O1B-C1B
14	A	810	CLA	C3-C5-C6-C7
14	B	3041	CLA	C16-C17-C18-C20
17	A	852	LMG	C19-C20-C21-C22
18	A	853	LHG	C9-C10-C11-C12
14	B	3015	CLA	CBA-CGA-O2A-C1
17	A	852	LMG	C29-C30-C31-C32
14	A	825	CLA	C5-C6-C7-C8
17	I	104	LMG	C4-C5-C6-O5
21	L	201	LMT	C3-C4-C5-C6
18	A	853	LHG	C19-C20-C21-C22
14	B	3028	CLA	C2-C1-O2A-CGA
14	A	822	CLA	C2-C3-C5-C6
14	A	817	CLA	C4C-C3C-CAC-CBC
14	B	3008	CLA	O1A-CGA-O2A-C1
14	A	809	CLA	C6-C7-C8-C9
14	A	827	CLA	C11-C12-C13-C14
14	B	3004	CLA	C11-C10-C8-C9
14	B	3020	CLA	C11-C10-C8-C9
14	B	3033	CLA	C11-C12-C13-C14
15	B	3042	PQN	C21-C22-C23-C24
14	A	839	CLA	C5-C6-C7-C8
14	B	3028	CLA	C13-C15-C16-C17
14	B	3029	CLA	O1A-CGA-O2A-C1
18	M	101	LHG	C16-C17-C18-C19
18	M	101	LHG	C28-C29-C30-C31
14	B	3032	CLA	O2A-C1-C2-C3
16	A	850	BCR	C1-C6-C7-C8
16	A	850	BCR	C5-C6-C7-C8
16	F	201	BCR	C23-C24-C25-C26
16	I	105	BCR	C23-C24-C25-C26
14	A	826	CLA	C13-C15-C16-C17
14	B	3024	CLA	O1D-CGD-O2D-CED
16	A	850	BCR	C7-C8-C9-C10
16	B	3044	BCR	C7-C8-C9-C10
16	I	105	BCR	C7-C8-C9-C10
16	J	103	BCR	C21-C22-C23-C24
16	J	104	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
18	A	853	LHG	C35-C36-C37-C38
14	B	3038	CLA	C8-C10-C11-C12
14	B	3028	CLA	C5-C6-C7-C8
14	A	802	CLA	C6-C7-C8-C10
14	A	822	CLA	C6-C7-C8-C10
14	A	827	CLA	C11-C10-C8-C7
14	A	828	CLA	C11-C10-C8-C7
14	A	829	CLA	C6-C7-C8-C10
14	B	3003	CLA	C6-C7-C8-C10
14	B	3004	CLA	C11-C10-C8-C7
14	B	3007	CLA	C11-C10-C8-C7
14	B	3011	CLA	C11-C12-C13-C15
14	B	3019	CLA	C6-C7-C8-C10
14	B	3020	CLA	C11-C12-C13-C15
14	B	3029	CLA	C12-C13-C15-C16
14	B	3030	CLA	C11-C10-C8-C7
14	B	3033	CLA	C11-C12-C13-C15
14	B	3039	CLA	C11-C12-C13-C15
14	B	3041	CLA	C11-C10-C8-C7
14	L	203	CLA	C6-C7-C8-C10
14	L	203	CLA	C12-C13-C15-C16
14	L	204	CLA	C12-C13-C15-C16
14	B	3006	CLA	O1A-CGA-O2A-C1
16	A	850	BCR	C19-C20-C21-C22
14	B	3032	CLA	C2A-CAA-CBA-CGA
16	I	102	BCR	C20-C21-C22-C37
16	J	104	BCR	C35-C13-C14-C15
16	M	103	BCR	C16-C17-C18-C36
18	A	853	LHG	C10-C11-C12-C13
14	B	3009	CLA	C15-C16-C17-C18
14	A	815	CLA	CAD-CBD-CGD-O2D
14	A	818	CLA	CAD-CBD-CGD-O2D
14	A	822	CLA	CAD-CBD-CGD-O2D
14	A	823	CLA	CAD-CBD-CGD-O2D
14	A	832	CLA	CAD-CBD-CGD-O2D
14	A	842	CLA	CAD-CBD-CGD-O2D
14	B	3014	CLA	CAD-CBD-CGD-O2D
14	B	3038	CLA	CAD-CBD-CGD-O2D
14	K	103	CLA	CAD-CBD-CGD-O2D
14	L	203	CLA	CAD-CBD-CGD-O2D
14	A	828	CLA	C8-C10-C11-C12
14	A	843	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
14	B	3014	CLA	C2C-C3C-CAC-CBC
16	A	851	BCR	C6-C7-C8-C9
14	B	3014	CLA	C15-C16-C17-C18
17	B	3048	LMG	O1-C7-C8-C9
14	B	3015	CLA	O1A-CGA-O2A-C1
14	B	3028	CLA	O1A-CGA-O2A-C1
14	B	3028	CLA	C15-C16-C17-C18
14	B	3041	CLA	C16-C17-C18-C19
14	A	806	CLA	CHA-CBD-CGD-O1D
14	A	809	CLA	CHA-CBD-CGD-O1D
14	A	809	CLA	CHA-CBD-CGD-O2D
14	A	821	CLA	CHA-CBD-CGD-O1D
14	A	821	CLA	CHA-CBD-CGD-O2D
14	A	825	CLA	CHA-CBD-CGD-O1D
14	A	825	CLA	CHA-CBD-CGD-O2D
14	A	831	CLA	CHA-CBD-CGD-O1D
14	A	831	CLA	CHA-CBD-CGD-O2D
14	A	835	CLA	CHA-CBD-CGD-O1D
14	B	3008	CLA	CHA-CBD-CGD-O1D
14	B	3011	CLA	CHA-CBD-CGD-O1D
14	B	3022	CLA	CHA-CBD-CGD-O1D
14	B	3022	CLA	CHA-CBD-CGD-O2D
14	B	3025	CLA	CHA-CBD-CGD-O1D
14	B	3025	CLA	CHA-CBD-CGD-O2D
14	B	3026	CLA	CHA-CBD-CGD-O1D
14	B	3027	CLA	CHA-CBD-CGD-O1D
14	B	3035	CLA	CHA-CBD-CGD-O1D
14	B	3035	CLA	CHA-CBD-CGD-O2D
14	B	3040	CLA	O1A-CGA-O2A-C1
16	B	3046	BCR	C16-C17-C18-C19
16	K	102	BCR	C16-C17-C18-C19
17	A	852	LMG	O1-C7-C8-O7
17	I	104	LMG	O1-C7-C8-O7
14	A	827	CLA	O1A-CGA-O2A-C1
18	M	101	LHG	O1-C1-C2-O2
14	A	822	CLA	C6-C7-C8-C9
14	A	833	CLA	C14-C13-C15-C16
14	B	3003	CLA	C6-C7-C8-C9
14	B	3006	CLA	C11-C10-C8-C9
14	L	204	CLA	C14-C13-C15-C16
14	B	3028	CLA	O1D-CGD-O2D-CED
14	A	822	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
14	B	3041	CLA	CBA-CGA-O2A-C1
14	A	814	CLA	C3-C5-C6-C7
17	B	3048	LMG	C38-C39-C40-C41
14	B	3028	CLA	C1A-C2A-CAA-CBA
14	B	3030	CLA	C1A-C2A-CAA-CBA
17	I	104	LMG	C28-C29-C30-C31
17	A	852	LMG	C32-C33-C34-C35
18	A	853	LHG	C3-O3-P-O6
14	L	205	CLA	O1D-CGD-O2D-CED
14	A	825	CLA	C3-C5-C6-C7
18	A	854	LHG	C2-C3-O3-P
18	M	101	LHG	C3-O3-P-O5
18	M	101	LHG	C4-O6-P-O5
14	B	3038	CLA	C11-C12-C13-C15
17	B	3048	LMG	C36-C37-C38-C39
14	A	817	CLA	O2A-C1-C2-C3
14	A	823	CLA	O2A-C1-C2-C3
14	B	3009	CLA	C8-C10-C11-C12
17	A	855	LMG	C12-C13-C14-C15
14	B	3011	CLA	CAD-CBD-CGD-O1D
14	A	812	CLA	C10-C11-C12-C13
14	A	822	CLA	CBA-CGA-O2A-C1
14	A	810	CLA	C6-C7-C8-C10
14	A	814	CLA	C11-C10-C8-C7
14	A	839	CLA	C6-C7-C8-C10
14	B	3006	CLA	C12-C13-C15-C16
14	B	3020	CLA	C11-C10-C8-C7
14	B	3020	CLA	C12-C13-C15-C16
14	B	3029	CLA	C6-C7-C8-C10
14	B	3033	CLA	C6-C7-C8-C10
14	L	205	CLA	C6-C7-C8-C10
15	B	3042	PQN	C22-C23-C25-C26
14	B	3014	CLA	C5-C6-C7-C8
14	B	3019	CLA	C3-C5-C6-C7
14	B	3023	CLA	O1A-CGA-O2A-C1
17	B	3048	LMG	O1-C7-C8-O7
22	L	206	DGD	C9A-CAA-CBA-CCA
16	I	105	BCR	C14-C15-C16-C17
14	A	844	CLA	C15-C16-C17-C18
17	I	104	LMG	C32-C33-C34-C35
14	B	3023	CLA	CBA-CGA-O2A-C1
14	B	3029	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
14	A	802	CLA	C6-C7-C8-C9
14	A	827	CLA	C11-C10-C8-C9
14	A	830	CLA	C6-C7-C8-C9
14	A	839	CLA	C6-C7-C8-C9
14	B	3003	CLA	C11-C12-C13-C14
14	B	3011	CLA	C11-C12-C13-C14
14	B	3030	CLA	C14-C13-C15-C16
14	B	3041	CLA	C11-C10-C8-C9
14	L	203	CLA	C6-C7-C8-C9
15	B	3042	PQN	C24-C23-C25-C26
14	A	822	CLA	O1A-CGA-O2A-C1
14	B	3041	CLA	O1A-CGA-O2A-C1
18	A	853	LHG	C11-C12-C13-C14
18	A	853	LHG	C28-C29-C30-C31
14	A	809	CLA	C15-C16-C17-C18
14	B	3038	CLA	C4-C3-C5-C6
14	B	3028	CLA	CBD-CGD-O2D-CED
14	B	3039	CLA	C16-C17-C18-C20
14	I	101	CLA	C10-C11-C12-C13
14	A	823	CLA	C1-C2-C3-C4
14	B	3032	CLA	C1-C2-C3-C4
14	A	809	CLA	C2A-CAA-CBA-CGA
14	B	3023	CLA	C2A-CAA-CBA-CGA
14	B	3029	CLA	C2-C1-O2A-CGA
18	A	853	LHG	C13-C14-C15-C16
16	A	848	BCR	C1-C6-C7-C8
16	A	848	BCR	C5-C6-C7-C8
14	A	831	CLA	C13-C15-C16-C17
14	B	3014	CLA	C4C-C3C-CAC-CBC
16	A	847	BCR	C12-C13-C14-C15
16	J	105	BCR	C11-C10-C9-C8
14	A	807	CLA	O1A-CGA-O2A-C1
18	A	854	LHG	C3-O3-P-O6
14	A	820	CLA	C4-C3-C5-C6
14	A	806	CLA	C11-C12-C13-C15
14	A	807	CLA	C12-C13-C15-C16
14	A	829	CLA	C11-C12-C13-C15
14	B	3006	CLA	C11-C10-C8-C7
14	B	3027	CLA	C6-C7-C8-C10
14	A	829	CLA	C6-C7-C8-C9
14	B	3009	CLA	C11-C10-C8-C9
14	B	3010	CLA	C11-C10-C8-C9

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Mol	Chain	Res	Type	Atoms
14	B	3029	CLA	C6-C7-C8-C9
18	A	854	LHG	O8-C23-C24-C25
16	B	3046	BCR	C19-C20-C21-C22
17	B	3048	LMG	C40-C41-C42-C43
14	B	3025	CLA	C6-C7-C8-C9
17	B	3048	LMG	C16-C17-C18-C19
14	A	806	CLA	C15-C16-C17-C18
14	A	856	CLA	C16-C17-C18-C20
18	A	853	LHG	C27-C28-C29-C30
22	L	206	DGD	C2A-C3A-C4A-C5A
14	B	3007	CLA	O1D-CGD-O2D-CED
16	B	3046	BCR	C11-C12-C13-C14
17	A	852	LMG	C4-C5-C6-O5
14	B	3015	CLA	C16-C17-C18-C19
14	A	807	CLA	CBA-CGA-O2A-C1
16	B	3045	BCR	C22-C23-C24-C25
16	F	203	BCR	C22-C23-C24-C25
14	A	841	CLA	C2A-CAA-CBA-CGA
14	B	3008	CLA	C2A-CAA-CBA-CGA
14	B	3039	CLA	C16-C17-C18-C19
16	I	105	BCR	C9-C10-C11-C12
14	B	3031	CLA	CAA-CBA-CGA-O2A
16	F	201	BCR	C10-C11-C12-C13
16	F	203	BCR	C18-C19-C20-C21
14	B	3013	CLA	CAA-CBA-CGA-O2A
14	A	805	CLA	C2-C3-C5-C6
14	A	827	CLA	C13-C15-C16-C17
14	B	3019	CLA	C10-C11-C12-C13
14	A	828	CLA	C2-C1-O2A-CGA
14	B	3015	CLA	C2-C1-O2A-CGA
17	B	3048	LMG	C19-C20-C21-C22
14	A	802	CLA	C2A-CAA-CBA-CGA
14	B	3021	CLA	C2A-CAA-CBA-CGA
14	B	3007	CLA	CBD-CGD-O2D-CED
18	A	853	LHG	C34-C35-C36-C37
21	L	201	LMT	C9-C10-C11-C12
14	A	825	CLA	C3A-C2A-CAA-CBA
14	A	836	CLA	C3A-C2A-CAA-CBA
14	B	3030	CLA	C3A-C2A-CAA-CBA
14	A	838	CLA	C4C-C3C-CAC-CBC
16	J	103	BCR	C9-C10-C11-C12
14	A	805	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
14	A	809	CLA	C14-C13-C15-C16
14	A	835	CLA	C11-C10-C8-C9
14	A	841	CLA	C11-C10-C8-C9
14	B	3006	CLA	C14-C13-C15-C16
15	A	846	PQN	C21-C22-C23-C24
14	A	837	CLA	CAA-CBA-CGA-O2A
14	M	102	CLA	CAA-CBA-CGA-O1A
14	B	3010	CLA	C15-C16-C17-C18
17	B	3048	LMG	C22-C23-C24-C25
14	A	856	CLA	C16-C17-C18-C19
14	A	833	CLA	O2A-C1-C2-C3
14	A	856	CLA	O2A-C1-C2-C3
14	B	3013	CLA	CAA-CBA-CGA-O1A
17	I	104	LMG	C7-C8-O7-C10
17	I	104	LMG	C9-C8-O7-C10
14	B	3003	CLA	C4-C3-C5-C6
14	A	836	CLA	C1A-C2A-CAA-CBA
14	B	3014	CLA	C1A-C2A-CAA-CBA
14	B	3034	CLA	C1A-C2A-CAA-CBA
14	A	831	CLA	C11-C10-C8-C7
14	B	3015	CLA	C11-C10-C8-C7
14	A	818	CLA	C6-C7-C8-C9
14	A	837	CLA	CAA-CBA-CGA-O1A
14	K	103	CLA	CAA-CBA-CGA-O1A
14	A	805	CLA	C11-C12-C13-C14
14	M	102	CLA	CAA-CBA-CGA-O2A
14	B	3017	CLA	C2C-C3C-CAC-CBC
14	A	810	CLA	C2C-C3C-CAC-CBC
17	B	3048	LMG	C18-C19-C20-C21
14	A	813	CLA	C2A-CAA-CBA-CGA
14	A	816	CLA	C2A-CAA-CBA-CGA
17	B	3048	LMG	C42-C43-C44-C45
14	A	810	CLA	C5-C6-C7-C8
18	A	854	LHG	O6-C4-C5-C6
14	A	820	CLA	C2-C3-C5-C6
14	B	3031	CLA	CAA-CBA-CGA-O1A
18	A	853	LHG	C23-C24-C25-C26
16	B	3045	BCR	C20-C21-C22-C23
16	B	3046	BCR	C20-C21-C22-C23
16	F	201	BCR	C16-C17-C18-C19
16	B	3045	BCR	C19-C20-C21-C22
16	B	3046	BCR	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
14	B	3037	CLA	CAA-CBA-CGA-O1A
16	J	104	BCR	C22-C23-C24-C25
14	X	1701	CLA	CAA-CBA-CGA-O2A
14	A	840	CLA	C2-C1-O2A-CGA
14	A	830	CLA	C4-C3-C5-C6
14	A	845	CLA	C2-C3-C5-C6
17	A	855	LMG	C19-C20-C21-C22
14	K	103	CLA	CAA-CBA-CGA-O2A
14	X	1701	CLA	CAA-CBA-CGA-O1A
16	A	847	BCR	C1-C6-C7-C8
16	B	3043	BCR	C23-C24-C25-C30
16	B	3050	BCR	C23-C24-C25-C30
16	I	103	BCR	C23-C24-C25-C30
16	I	105	BCR	C1-C6-C7-C8
14	A	827	CLA	C8-C10-C11-C12
14	A	807	CLA	C4-C3-C5-C6
14	A	809	CLA	C4-C3-C5-C6
14	A	834	CLA	C4-C3-C5-C6
14	B	3034	CLA	C4-C3-C5-C6
14	B	3038	CLA	C2-C3-C5-C6
14	B	3037	CLA	CAA-CBA-CGA-O2A
16	A	848	BCR	C14-C15-C16-C17
14	B	3010	CLA	C4C-C3C-CAC-CBC
17	A	852	LMG	C13-C14-C15-C16
14	A	815	CLA	CAA-CBA-CGA-O2A
14	B	3024	CLA	CAA-CBA-CGA-O2A
14	F	202	CLA	CAA-CBA-CGA-O2A
15	B	3042	PQN	C25-C26-C27-C28
14	J	101	CLA	CAA-CBA-CGA-O2A
14	B	3014	CLA	C8-C10-C11-C12
14	A	819	CLA	CAA-CBA-CGA-O2A
14	A	809	CLA	C6-C7-C8-C10
14	A	810	CLA	C2-C3-C5-C6
14	A	833	CLA	C12-C13-C15-C16
14	B	3003	CLA	C11-C12-C13-C15
14	B	3009	CLA	C11-C10-C8-C7
14	A	832	CLA	CBA-CGA-O2A-C1
14	A	835	CLA	C5-C6-C7-C8
14	B	3006	CLA	C15-C16-C17-C18
17	A	852	LMG	O8-C28-C29-C30
14	A	838	CLA	C2C-C3C-CAC-CBC
17	A	855	LMG	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
14	B	3006	CLA	CAA-CBA-CGA-O2A
14	B	3024	CLA	CAA-CBA-CGA-O1A
14	B	3003	CLA	CBA-CGA-O2A-C1
16	B	3044	BCR	C11-C10-C9-C34
16	B	3045	BCR	C20-C21-C22-C37
14	A	808	CLA	CAA-CBA-CGA-O2A
14	A	825	CLA	C4-C3-C5-C6
14	A	845	CLA	C4-C3-C5-C6
14	B	3030	CLA	C4-C3-C5-C6
14	A	815	CLA	CAA-CBA-CGA-O1A
14	B	3036	CLA	CAA-CBA-CGA-O2A
14	B	3003	CLA	C2-C3-C5-C6
22	L	206	DGD	CEB-CFB-CGB-CHB
14	A	810	CLA	C6-C7-C8-C9
14	A	814	CLA	C11-C10-C8-C9
14	A	831	CLA	C11-C10-C8-C9
14	B	3007	CLA	C11-C10-C8-C9
14	B	3018	CLA	C6-C7-C8-C9
14	B	3020	CLA	C14-C13-C15-C16
14	B	3027	CLA	C6-C7-C8-C9
14	B	3029	CLA	C11-C12-C13-C14
14	B	3033	CLA	C6-C7-C8-C9
14	B	3034	CLA	C11-C10-C8-C9
14	L	205	CLA	C6-C7-C8-C9
14	L	205	CLA	C11-C10-C8-C9
18	A	853	LHG	C16-C17-C18-C19
14	A	816	CLA	C3A-C2A-CAA-CBA
14	B	3014	CLA	C3A-C2A-CAA-CBA
14	B	3034	CLA	C3A-C2A-CAA-CBA
14	L	204	CLA	C3A-C2A-CAA-CBA
14	A	810	CLA	CAD-CBD-CGD-O2D
14	A	812	CLA	CAD-CBD-CGD-O2D
14	A	839	CLA	CAD-CBD-CGD-O2D
14	B	3005	CLA	CAD-CBD-CGD-O2D
14	B	3018	CLA	CAD-CBD-CGD-O2D
14	B	3028	CLA	CAD-CBD-CGD-O2D
14	B	3034	CLA	CAD-CBD-CGD-O2D
14	I	101	CLA	CAD-CBD-CGD-O2D
14	J	101	CLA	CAD-CBD-CGD-O2D
14	X	1701	CLA	CAD-CBD-CGD-O2D
14	B	3015	CLA	C16-C17-C18-C20
14	B	3003	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
14	A	810	CLA	C4C-C3C-CAC-CBC
14	A	807	CLA	CAA-CBA-CGA-O2A
14	B	3011	CLA	CAA-CBA-CGA-O2A
17	B	3048	LMG	O7-C10-C11-C12
14	B	3011	CLA	C4-C3-C5-C6
14	F	202	CLA	CAA-CBA-CGA-O1A
14	A	820	CLA	C5-C6-C7-C8
14	A	809	CLA	C2-C3-C5-C6
14	A	830	CLA	C2-C3-C5-C6
14	A	834	CLA	C2-C3-C5-C6
14	B	3007	CLA	CAA-CBA-CGA-O2A
14	B	3014	CLA	CAA-CBA-CGA-O2A
16	A	851	BCR	C11-C12-C13-C14
16	F	201	BCR	C21-C22-C23-C24
16	I	105	BCR	C17-C18-C19-C20
16	J	104	BCR	C11-C12-C13-C14
14	J	101	CLA	CAA-CBA-CGA-O1A
18	A	854	LHG	O6-C4-C5-O7
17	I	104	LMG	O7-C10-C11-C12
14	A	806	CLA	O2A-C1-C2-C3
14	B	3033	CLA	O2A-C1-C2-C3
14	B	3015	CLA	C2A-CAA-CBA-CGA
14	A	805	CLA	CHA-CBD-CGD-O2D
14	A	806	CLA	CHA-CBD-CGD-O2D
14	A	811	CLA	CHA-CBD-CGD-O1D
14	A	811	CLA	CHA-CBD-CGD-O2D
14	A	828	CLA	CHA-CBD-CGD-O1D
14	A	830	CLA	CHA-CBD-CGD-O1D
14	A	837	CLA	CHA-CBD-CGD-O1D
14	A	837	CLA	CHA-CBD-CGD-O2D
14	A	856	CLA	CHA-CBD-CGD-O1D
14	B	3008	CLA	CHA-CBD-CGD-O2D
14	B	3011	CLA	CHA-CBD-CGD-O2D
14	B	3014	CLA	CHA-CBD-CGD-O2D
14	B	3026	CLA	CHA-CBD-CGD-O2D
14	B	3027	CLA	CHA-CBD-CGD-O2D
14	B	3031	CLA	CHA-CBD-CGD-O2D
14	M	102	CLA	CHA-CBD-CGD-O1D
14	A	839	CLA	C4-C3-C5-C6
16	A	851	BCR	C16-C17-C18-C19
16	F	203	BCR	C20-C21-C22-C23
14	B	3036	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
14	B	3018	CLA	C11-C12-C13-C14
14	B	3018	CLA	O1D-CGD-O2D-CED
17	B	3048	LMG	C20-C21-C22-C23
18	B	3049	LHG	O7-C7-C8-C9
14	A	826	CLA	C11-C10-C8-C7
14	B	3003	CLA	C11-C10-C8-C7
14	B	3011	CLA	C6-C7-C8-C10
14	L	204	CLA	C11-C10-C8-C7
14	A	835	CLA	C16-C17-C18-C20
21	L	201	LMT	C6-C7-C8-C9
14	A	806	CLA	C11-C12-C13-C14
14	A	807	CLA	C14-C13-C15-C16
14	B	3003	CLA	C11-C10-C8-C9
14	B	3011	CLA	C14-C13-C15-C16
18	M	101	LHG	C5-C6-O8-C23
14	B	3040	CLA	C2-C1-O2A-CGA
14	B	3004	CLA	C2A-CAA-CBA-CGA
14	A	808	CLA	CAA-CBA-CGA-O1A
14	A	844	CLA	C16-C17-C18-C19
14	A	807	CLA	CAA-CBA-CGA-O1A
18	A	853	LHG	O10-C23-C24-C25
14	B	3038	CLA	CBA-CGA-O2A-C1
14	B	3015	CLA	C10-C11-C12-C13
14	A	802	CLA	C1A-C2A-CAA-CBA
14	A	816	CLA	C1A-C2A-CAA-CBA
14	A	825	CLA	C1A-C2A-CAA-CBA
14	B	3010	CLA	C1A-C2A-CAA-CBA
14	B	3027	CLA	C1A-C2A-CAA-CBA
14	B	3035	CLA	C1A-C2A-CAA-CBA
14	B	3038	CLA	C1A-C2A-CAA-CBA
14	X	1701	CLA	C1A-C2A-CAA-CBA
14	B	3020	CLA	C16-C17-C18-C20
14	B	3014	CLA	CAA-CBA-CGA-O1A
18	M	101	LHG	O9-C7-C8-C9
14	B	3041	CLA	C15-C16-C17-C18
14	A	819	CLA	CBA-CGA-O2A-C1
14	B	3027	CLA	CBA-CGA-O2A-C1
14	B	3007	CLA	CAA-CBA-CGA-O1A
14	B	3006	CLA	CAA-CBA-CGA-O1A
14	B	3011	CLA	CAA-CBA-CGA-O1A
14	A	830	CLA	C13-C15-C16-C17
15	A	846	PQN	C23-C25-C26-C27

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Mol	Chain	Res	Type	Atoms
16	J	103	BCR	C6-C7-C8-C9
14	B	3038	CLA	O1A-CGA-O2A-C1
14	B	3039	CLA	C15-C16-C17-C18
18	A	854	LHG	C4-O6-P-O5
16	B	3045	BCR	C35-C13-C14-C15
16	I	105	BCR	C5-C6-C7-C8
14	B	3033	CLA	CAA-CBA-CGA-O2A
15	B	3042	PQN	C26-C27-C28-C29
14	A	805	CLA	O1D-CGD-O2D-CED
14	A	802	CLA	C10-C11-C12-C13
14	A	810	CLA	C4-C3-C5-C6
14	A	804	CLA	CAD-CBD-CGD-O1D
14	A	828	CLA	CAD-CBD-CGD-O1D
14	A	837	CLA	CAD-CBD-CGD-O1D
14	A	856	CLA	CAD-CBD-CGD-O1D
14	B	3027	CLA	CAD-CBD-CGD-O1D
14	A	832	CLA	O1A-CGA-O2A-C1
14	B	3021	CLA	CAA-CBA-CGA-O2A
14	A	804	CLA	C11-C12-C13-C14
14	A	831	CLA	C14-C13-C15-C16
14	B	3011	CLA	C6-C7-C8-C9
14	B	3015	CLA	C11-C10-C8-C9
14	A	804	CLA	C5-C6-C7-C8
14	A	819	CLA	O1A-CGA-O2A-C1
14	A	812	CLA	CAA-CBA-CGA-O2A
14	B	3008	CLA	CAA-CBA-CGA-O2A
18	M	101	LHG	O7-C7-C8-C9
14	A	856	CLA	C10-C11-C12-C13
22	L	206	DGD	CFB-CGB-CHB-CIB
14	B	3009	CLA	C5-C6-C7-C8
14	A	832	CLA	CAA-CBA-CGA-O2A
14	B	3029	CLA	CAA-CBA-CGA-O2A
14	L	204	CLA	C13-C15-C16-C17
14	A	807	CLA	C8-C10-C11-C12
14	A	802	CLA	C3A-C2A-CAA-CBA
14	A	820	CLA	C11-C10-C8-C7
14	A	835	CLA	C11-C12-C13-C15
14	A	843	CLA	C11-C10-C8-C7
14	A	844	CLA	C11-C12-C13-C15
14	B	3015	CLA	C12-C13-C15-C16
14	B	3038	CLA	C6-C7-C8-C10
14	B	3008	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
14	A	803	CLA	CAA-CBA-CGA-O2A
14	A	809	CLA	CAA-CBA-CGA-O2A
14	A	820	CLA	CAA-CBA-CGA-O2A
14	A	839	CLA	CAA-CBA-CGA-O2A
18	A	853	LHG	O7-C7-C8-C9
14	B	3033	CLA	C2C-C3C-CAC-CBC
16	B	3043	BCR	C7-C8-C9-C10
14	A	839	CLA	CAA-CBA-CGA-O1A
18	A	854	LHG	O9-C7-C8-C9
14	A	835	CLA	C16-C17-C18-C19
14	A	814	CLA	CAA-CBA-CGA-O2A
14	A	843	CLA	O1D-CGD-O2D-CED
17	I	104	LMG	O9-C10-C11-C12
14	A	842	CLA	CAA-CBA-CGA-O2A
14	A	832	CLA	CAA-CBA-CGA-O1A
14	A	837	CLA	C2A-CAA-CBA-CGA
14	B	3027	CLA	C2A-CAA-CBA-CGA
14	A	809	CLA	CAA-CBA-CGA-O1A
14	A	820	CLA	CAA-CBA-CGA-O1A

There are no ring outliers.

114 monomers are involved in 316 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	B	3004	CLA	5	0
14	A	836	CLA	1	0
16	J	104	BCR	3	0
14	A	817	CLA	3	0
16	I	105	BCR	3	0
14	I	101	CLA	8	0
14	A	808	CLA	2	0
14	A	845	CLA	2	0
14	B	3018	CLA	5	0
16	F	203	BCR	3	0
18	M	101	LHG	1	0
16	I	103	BCR	1	0
14	B	3031	CLA	4	0
14	B	3014	CLA	6	0
14	X	1701	CLA	2	0
14	B	3003	CLA	3	0
16	J	103	BCR	4	0
16	A	847	BCR	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
16	K	102	BCR	4	0
14	A	831	CLA	3	0
18	A	853	LHG	2	0
14	A	813	CLA	4	0
14	B	3009	CLA	2	0
17	B	3048	LMG	1	0
16	A	850	BCR	5	0
18	A	854	LHG	1	0
14	L	203	CLA	3	0
14	A	812	CLA	2	0
14	A	815	CLA	1	0
14	B	3028	CLA	2	0
14	B	3039	CLA	3	0
14	B	3025	CLA	6	0
16	F	201	BCR	5	0
13	A	801	CL0	3	0
14	A	802	CLA	3	0
14	A	833	CLA	4	0
14	B	3005	CLA	2	0
14	K	101	CLA	1	0
14	B	3037	CLA	2	0
14	B	3017	CLA	5	0
14	A	856	CLA	4	0
14	A	803	CLA	5	0
14	B	3038	CLA	5	0
14	B	3030	CLA	4	0
14	B	3040	CLA	3	0
14	A	839	CLA	2	0
14	A	821	CLA	4	0
14	A	844	CLA	3	0
14	B	3006	CLA	1	0
14	B	3023	CLA	1	0
14	B	3019	CLA	2	0
14	B	3010	CLA	7	0
16	B	3045	BCR	2	0
16	I	102	BCR	4	0
14	A	819	CLA	5	0
14	B	3007	CLA	1	0
14	B	3035	CLA	1	0
14	L	204	CLA	1	0
14	A	805	CLA	1	0
14	A	809	CLA	5	0

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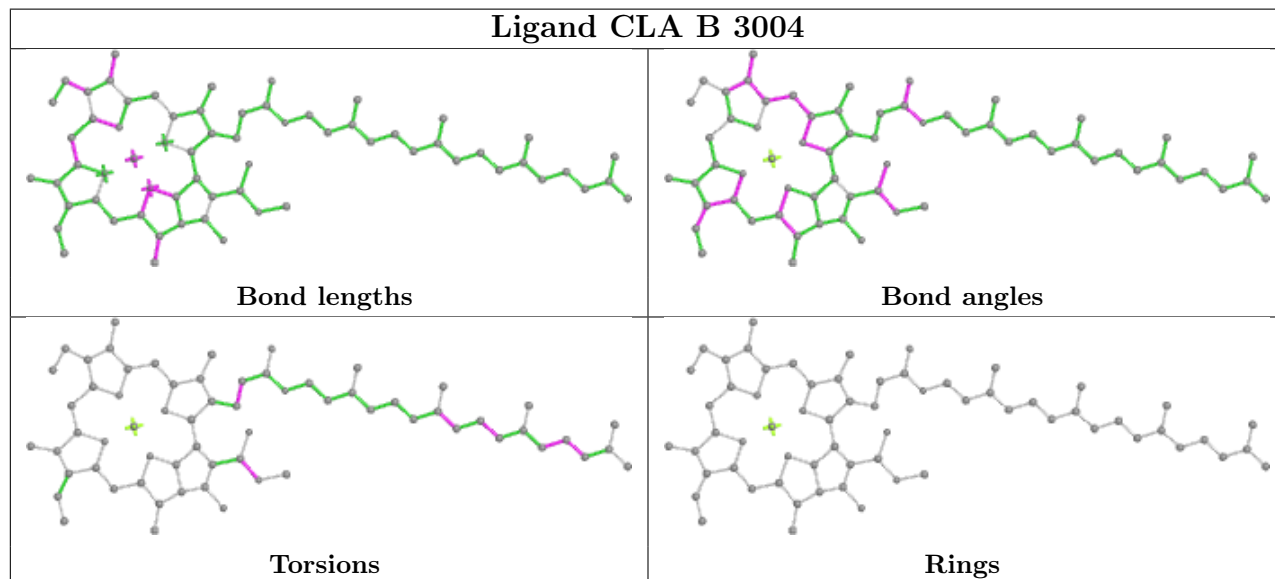
Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	A	835	CLA	2	0
14	A	825	CLA	3	0
14	B	3034	CLA	7	0
14	B	3015	CLA	1	0
14	A	822	CLA	4	0
14	B	3008	CLA	2	0
14	F	202	CLA	8	0
16	A	851	BCR	6	0
14	A	806	CLA	5	0
16	A	849	BCR	2	0
14	B	3032	CLA	2	0
14	J	101	CLA	1	0
14	M	102	CLA	5	0
16	M	103	BCR	3	0
16	B	3046	BCR	5	0
14	A	824	CLA	1	0
14	A	830	CLA	3	0
14	B	3013	CLA	2	0
16	B	3044	BCR	3	0
14	A	814	CLA	8	0
14	B	3026	CLA	4	0
14	A	826	CLA	7	0
16	B	3050	BCR	2	0
14	A	834	CLA	2	0
14	A	810	CLA	5	0
14	B	3012	CLA	1	0
14	B	3027	CLA	1	0
14	A	820	CLA	6	0
14	A	804	CLA	7	0
14	A	818	CLA	2	0
14	A	838	CLA	3	0
16	J	105	BCR	6	0
14	B	3022	CLA	1	0
18	B	3049	LHG	2	0
22	L	206	DGD	2	0
16	L	207	BCR	2	0
14	B	3036	CLA	1	0
14	B	3021	CLA	1	0
14	A	823	CLA	1	0
14	A	843	CLA	3	0
14	B	3041	CLA	1	0
15	A	846	PQN	8	0

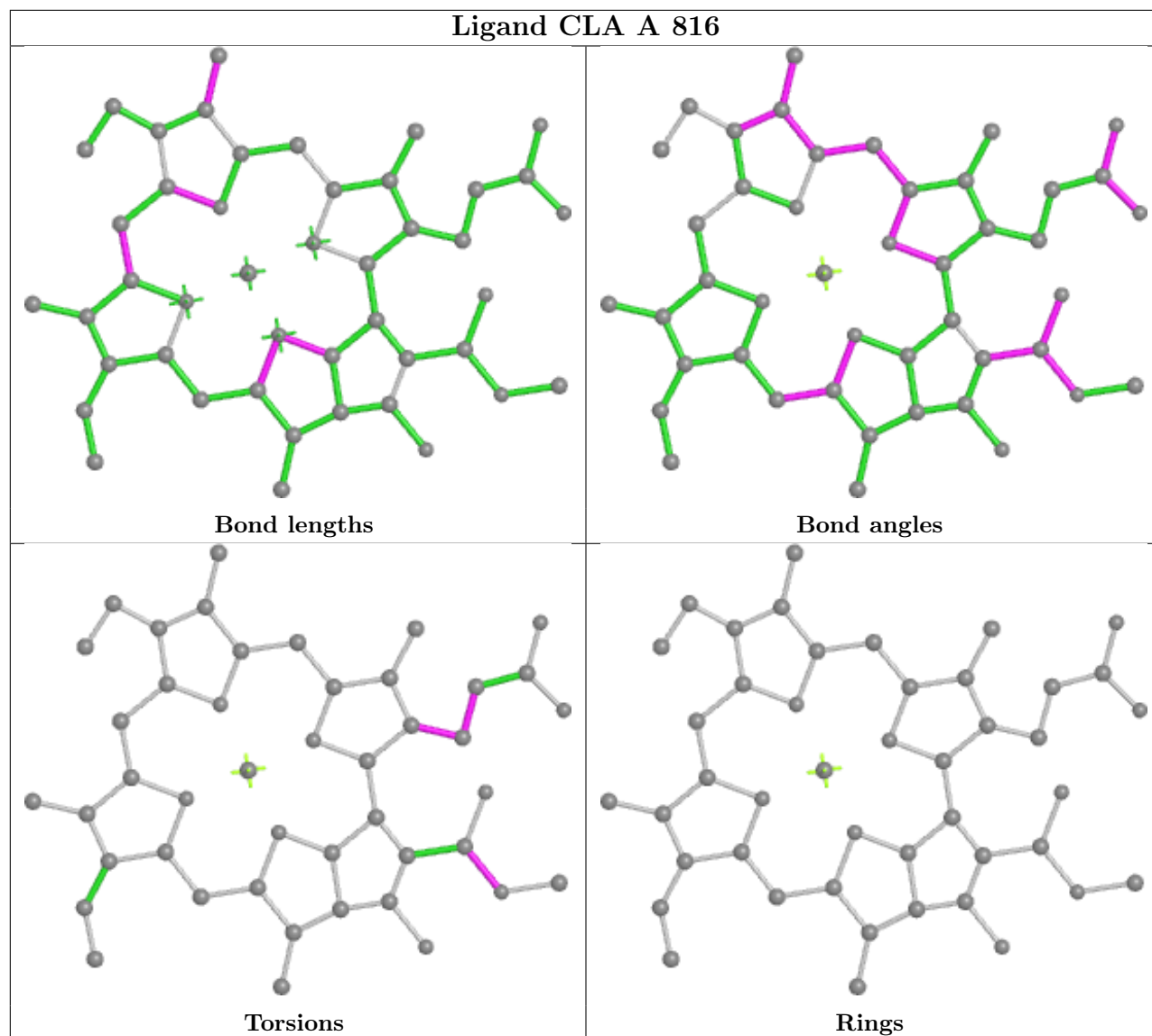
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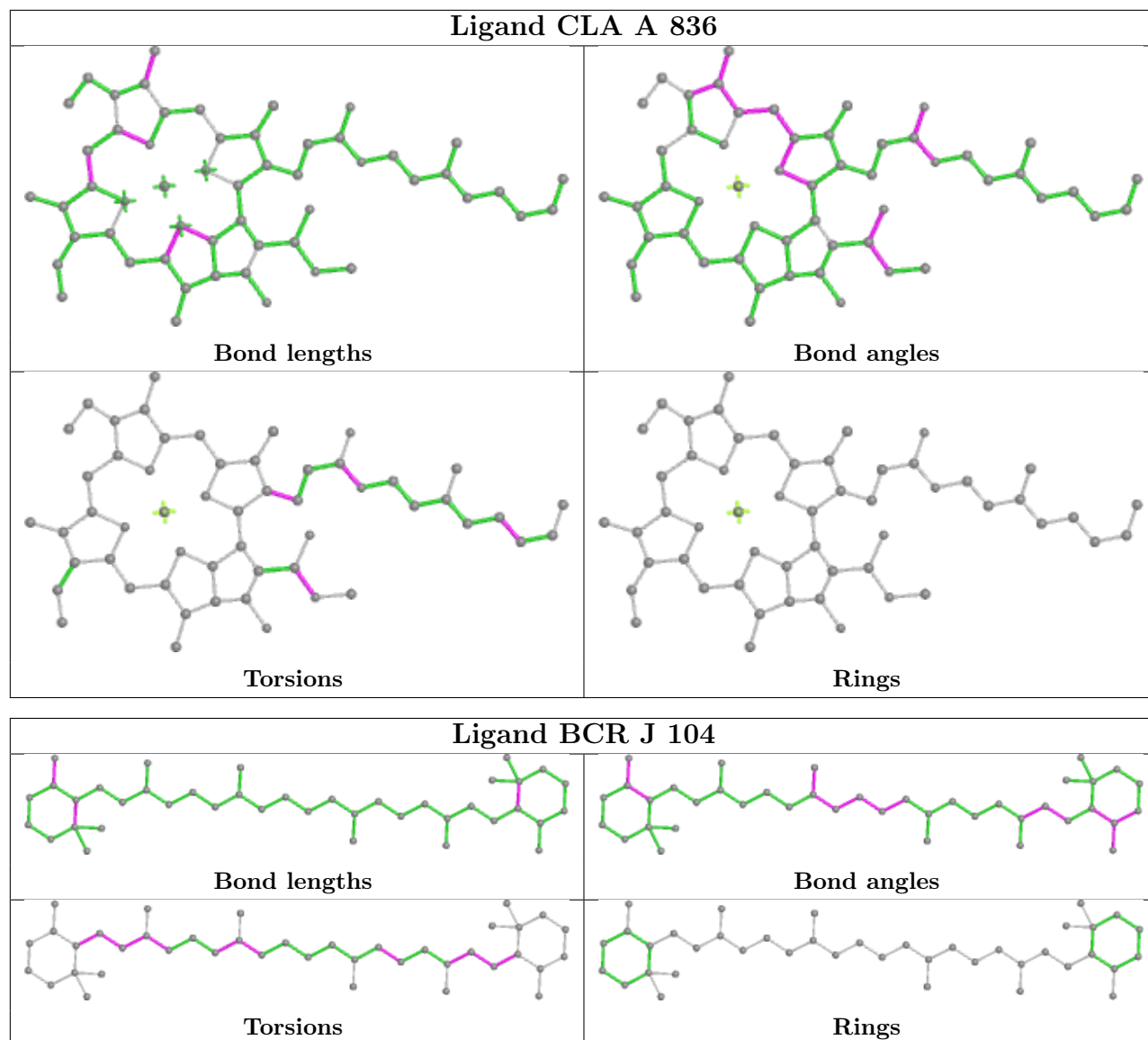
Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	A	841	CLA	4	0
14	A	829	CLA	8	0
14	A	832	CLA	5	0
14	A	827	CLA	2	0
14	A	828	CLA	3	0
15	B	3042	PQN	5	0
14	A	840	CLA	3	0
14	B	3011	CLA	4	0
14	B	3033	CLA	3	0
14	B	3024	CLA	4	0
14	A	811	CLA	8	0
14	J	102	CLA	1	0

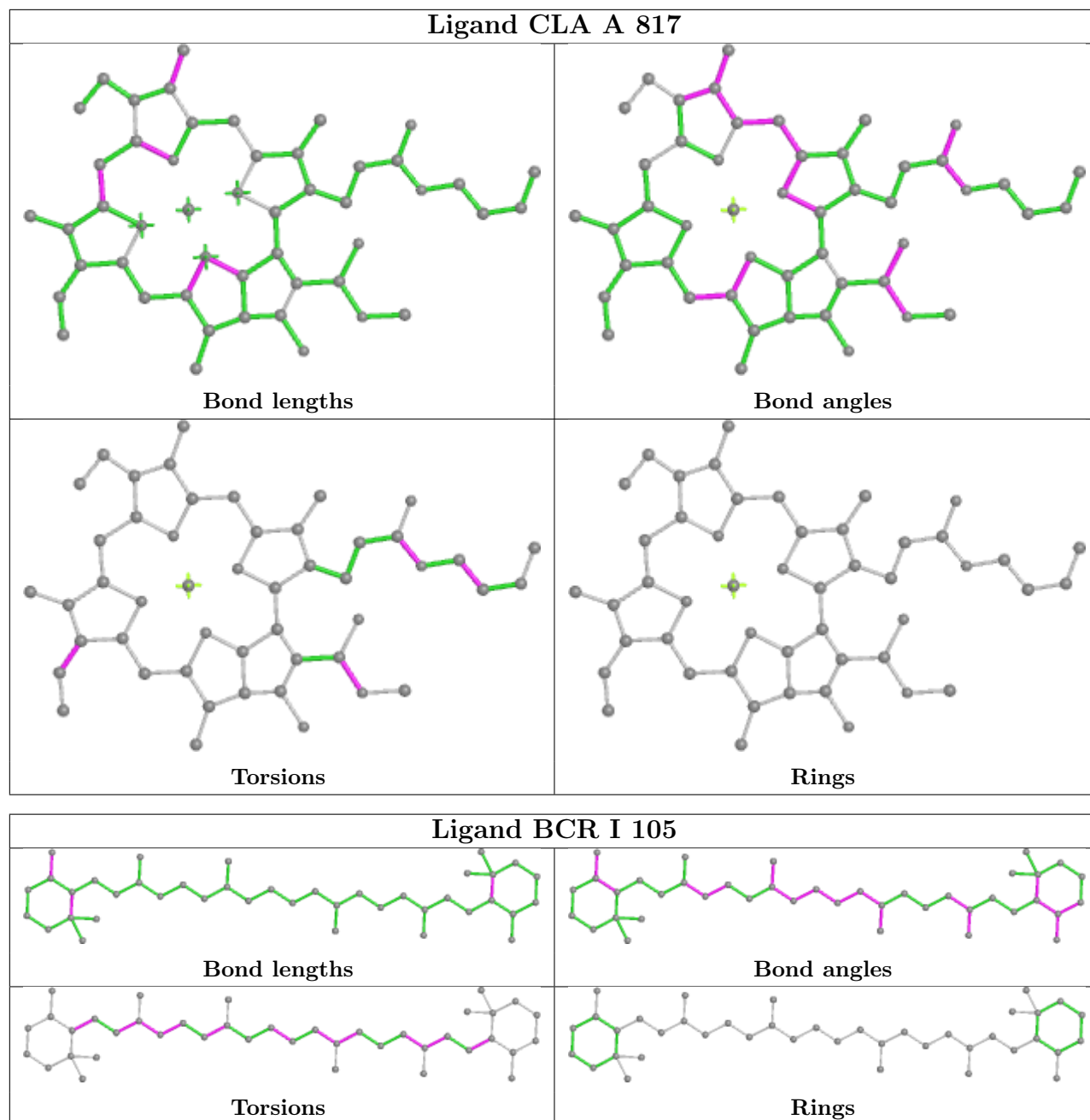
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

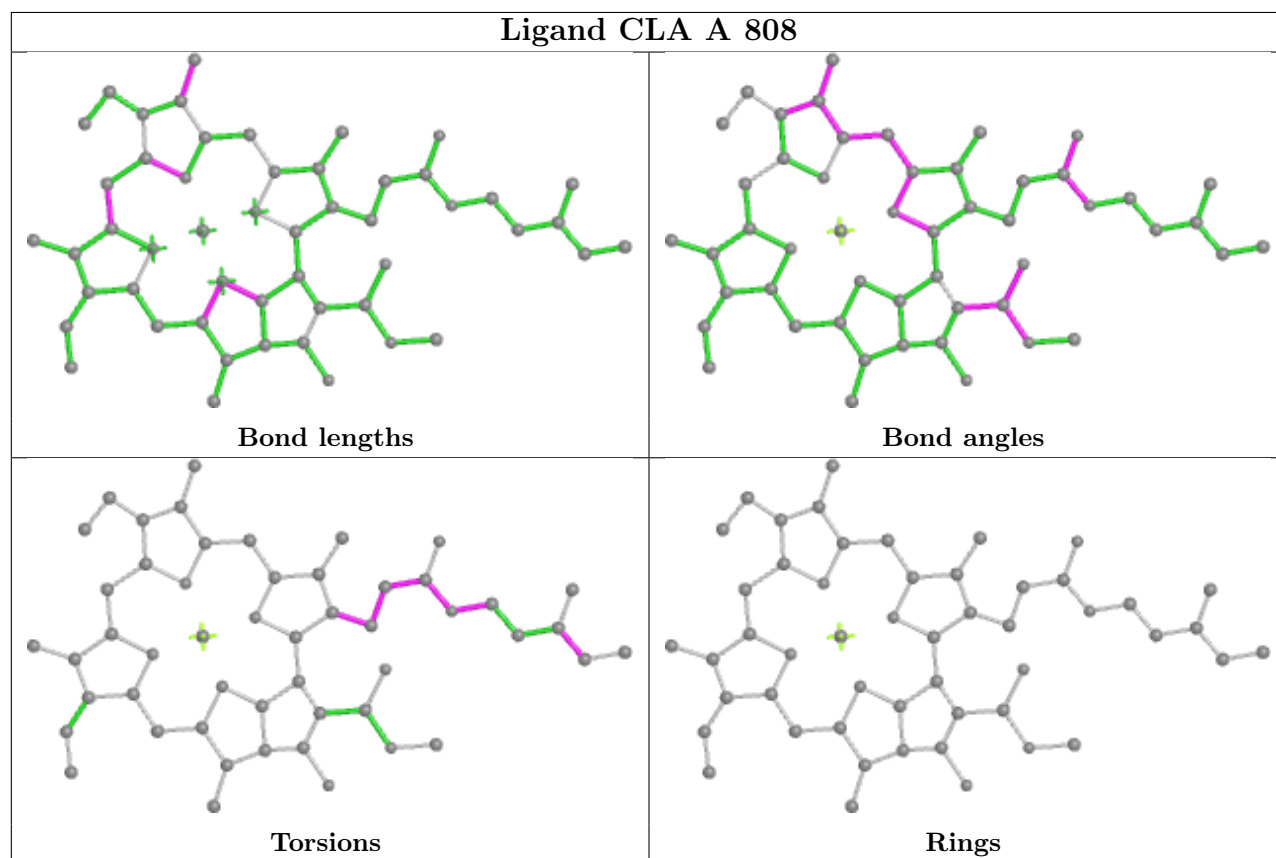
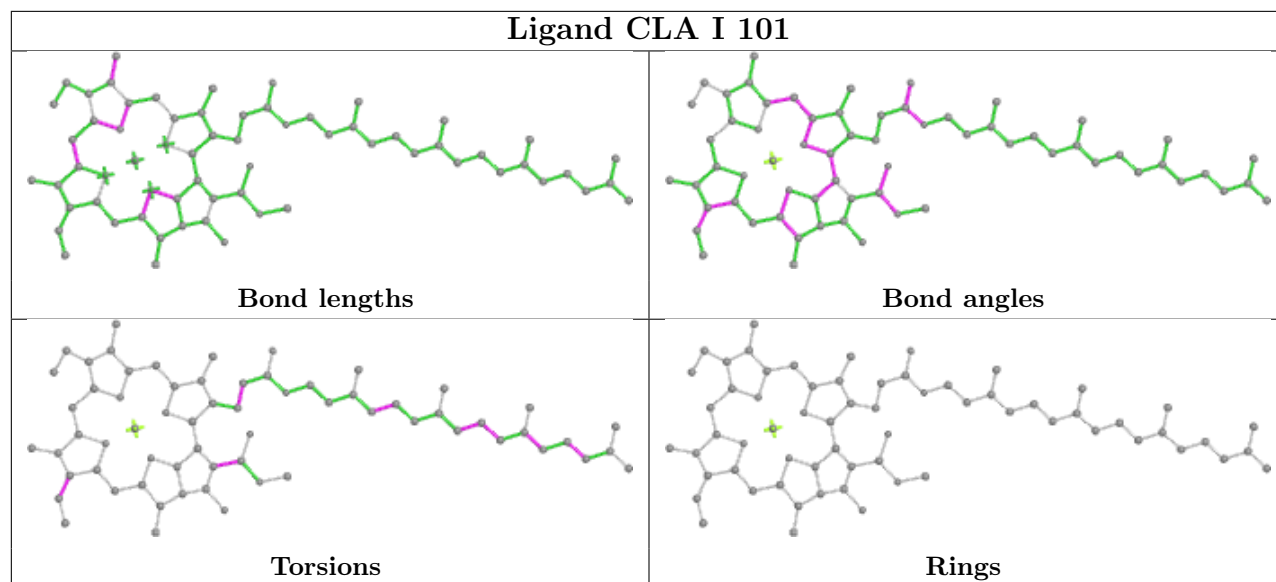


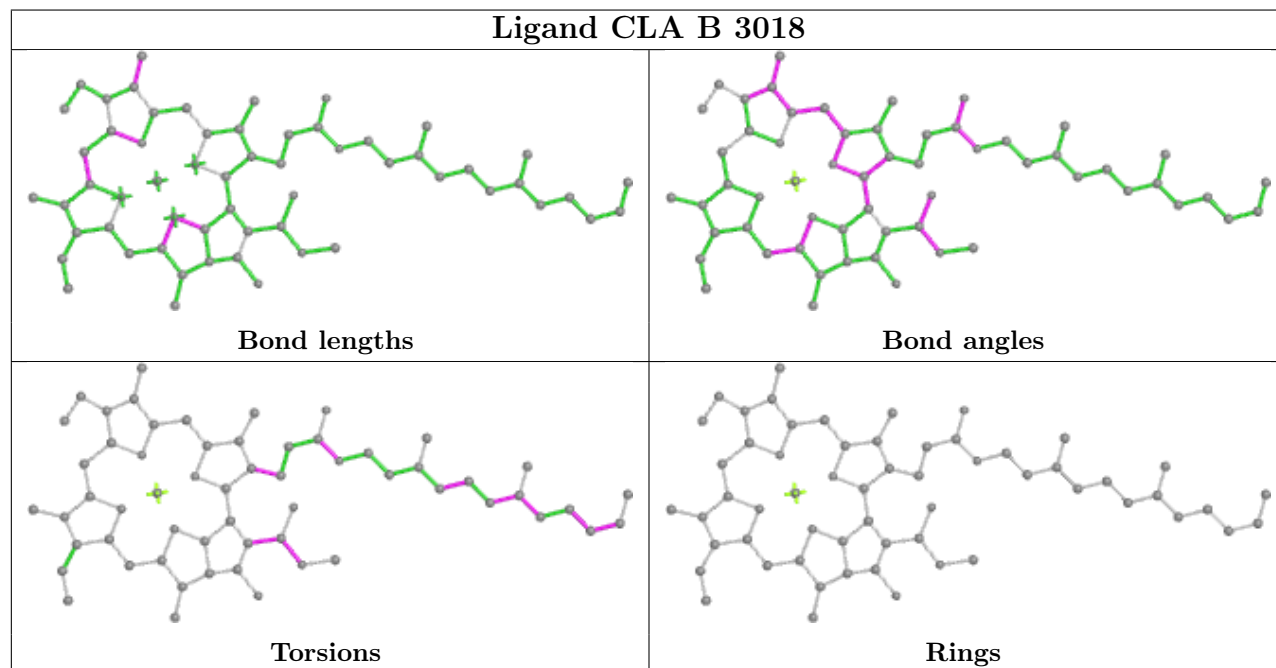
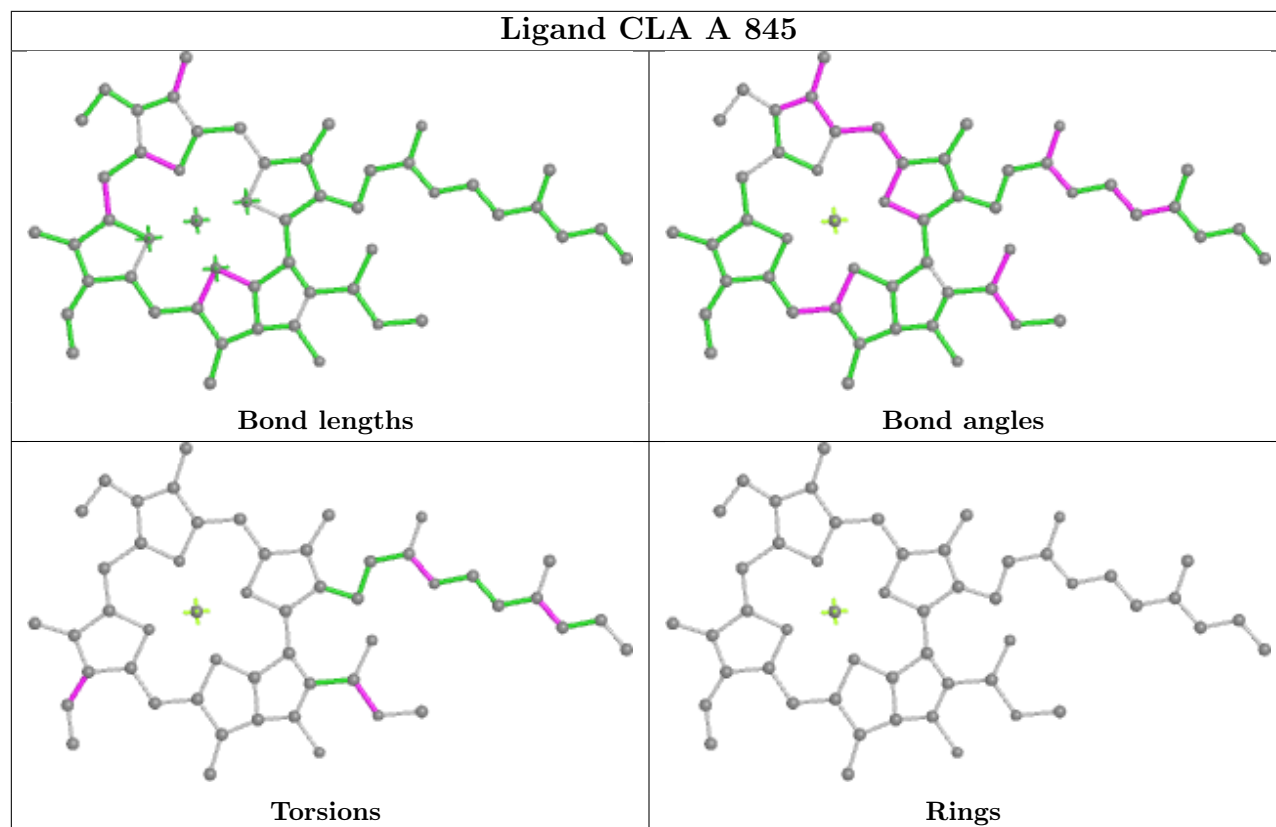


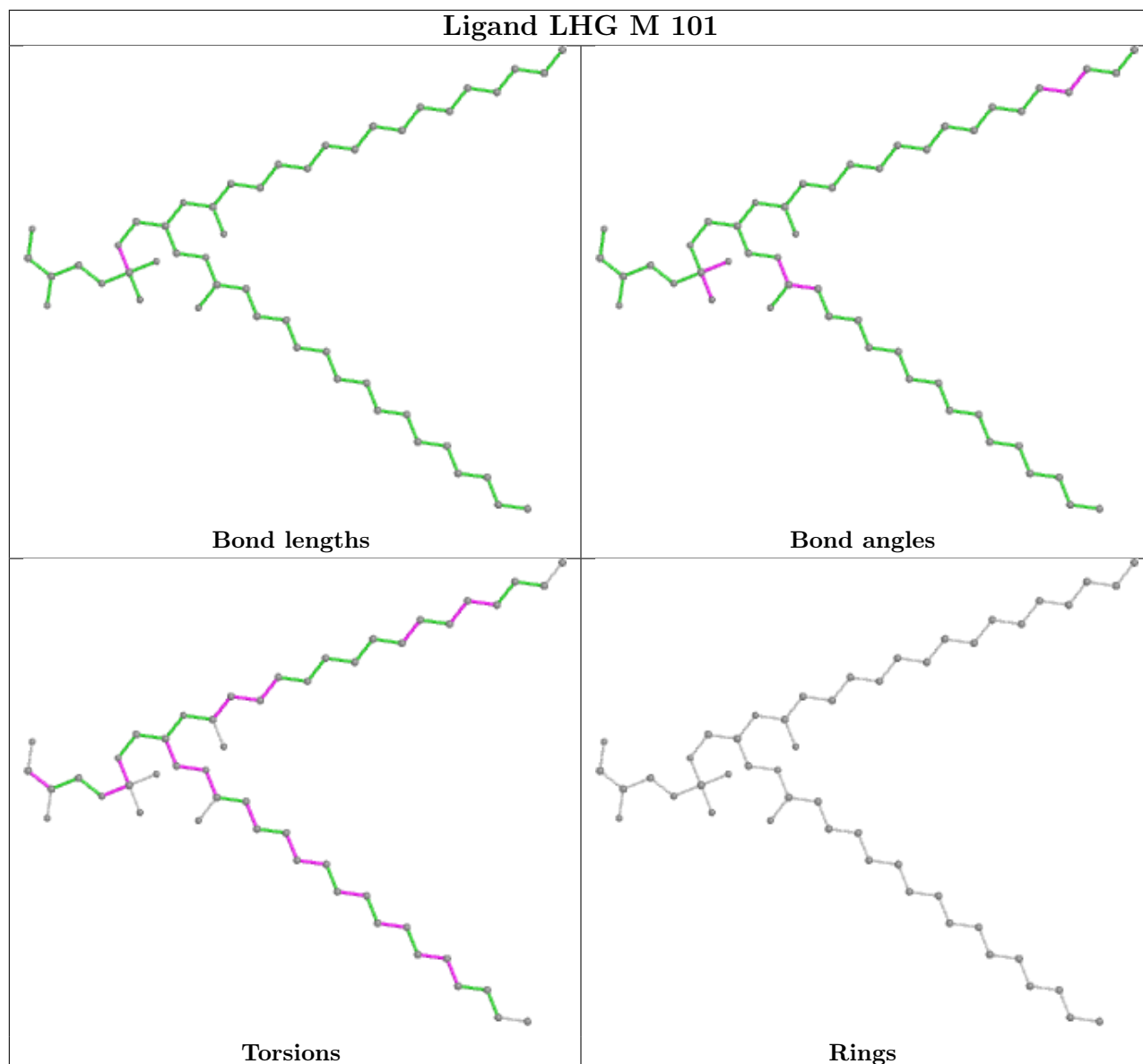
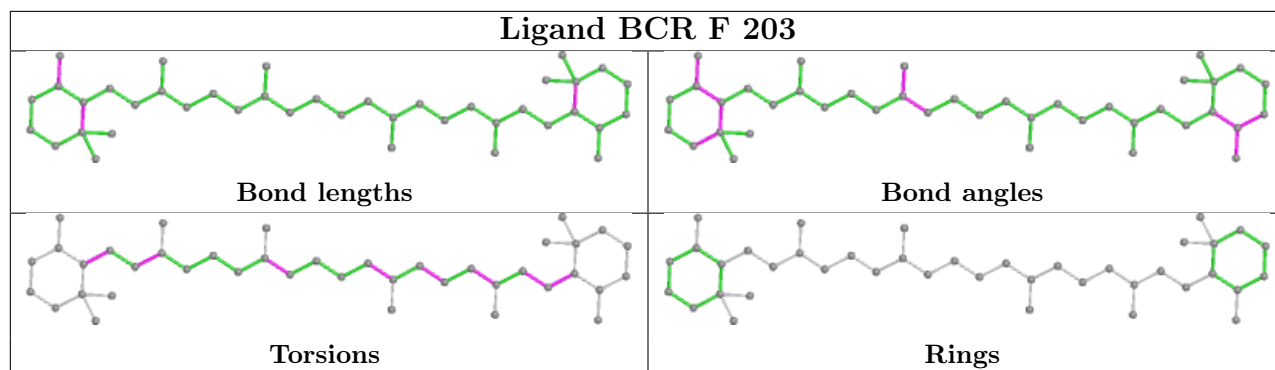


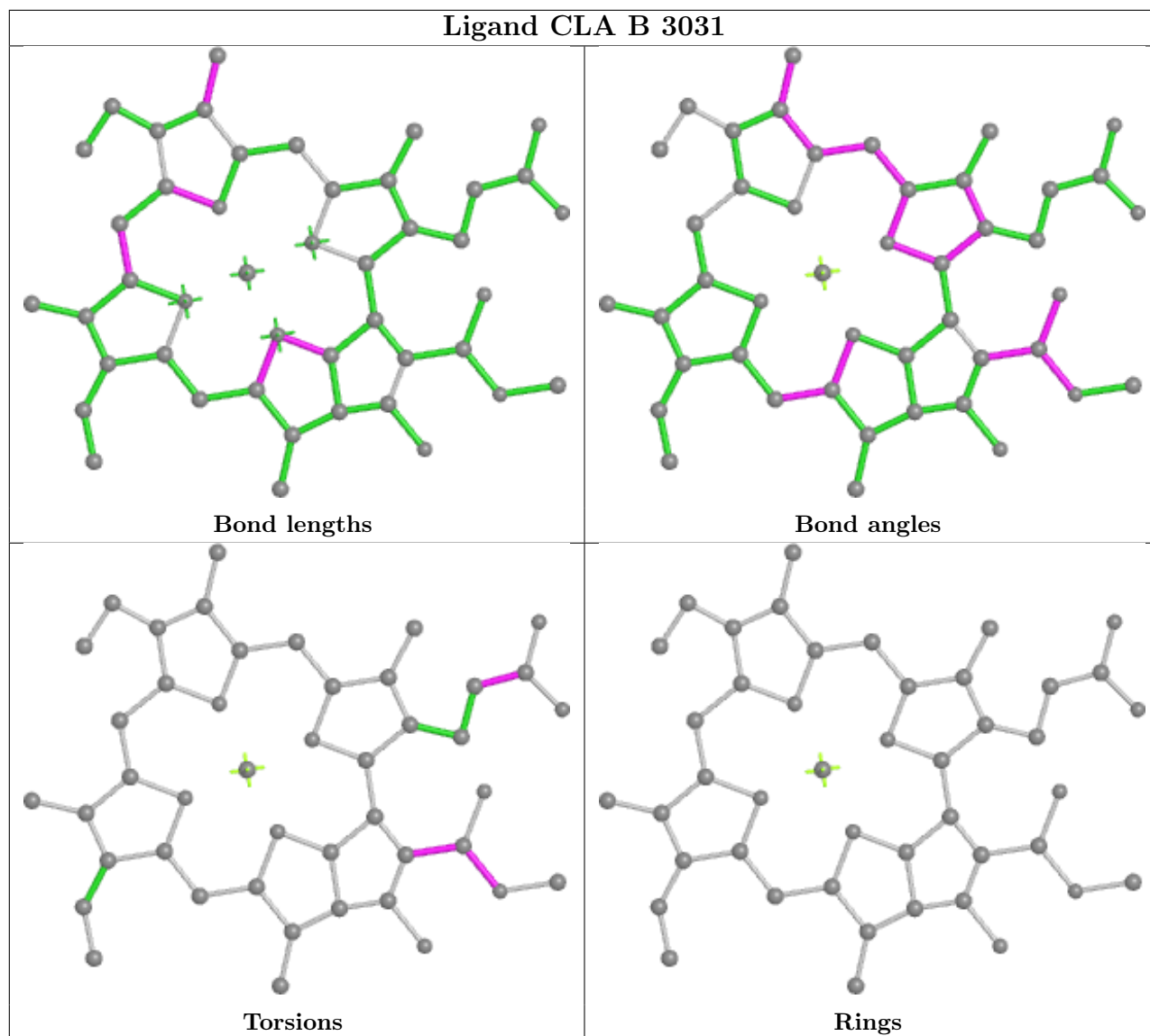
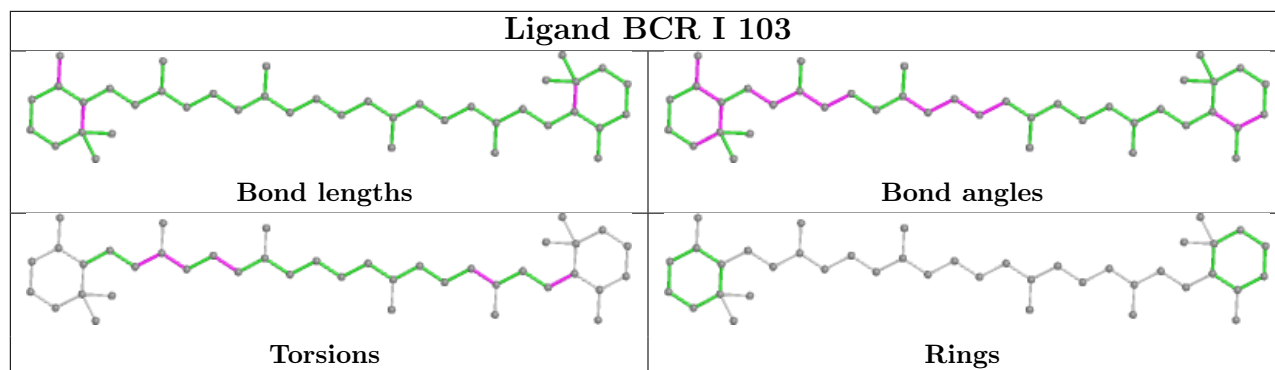


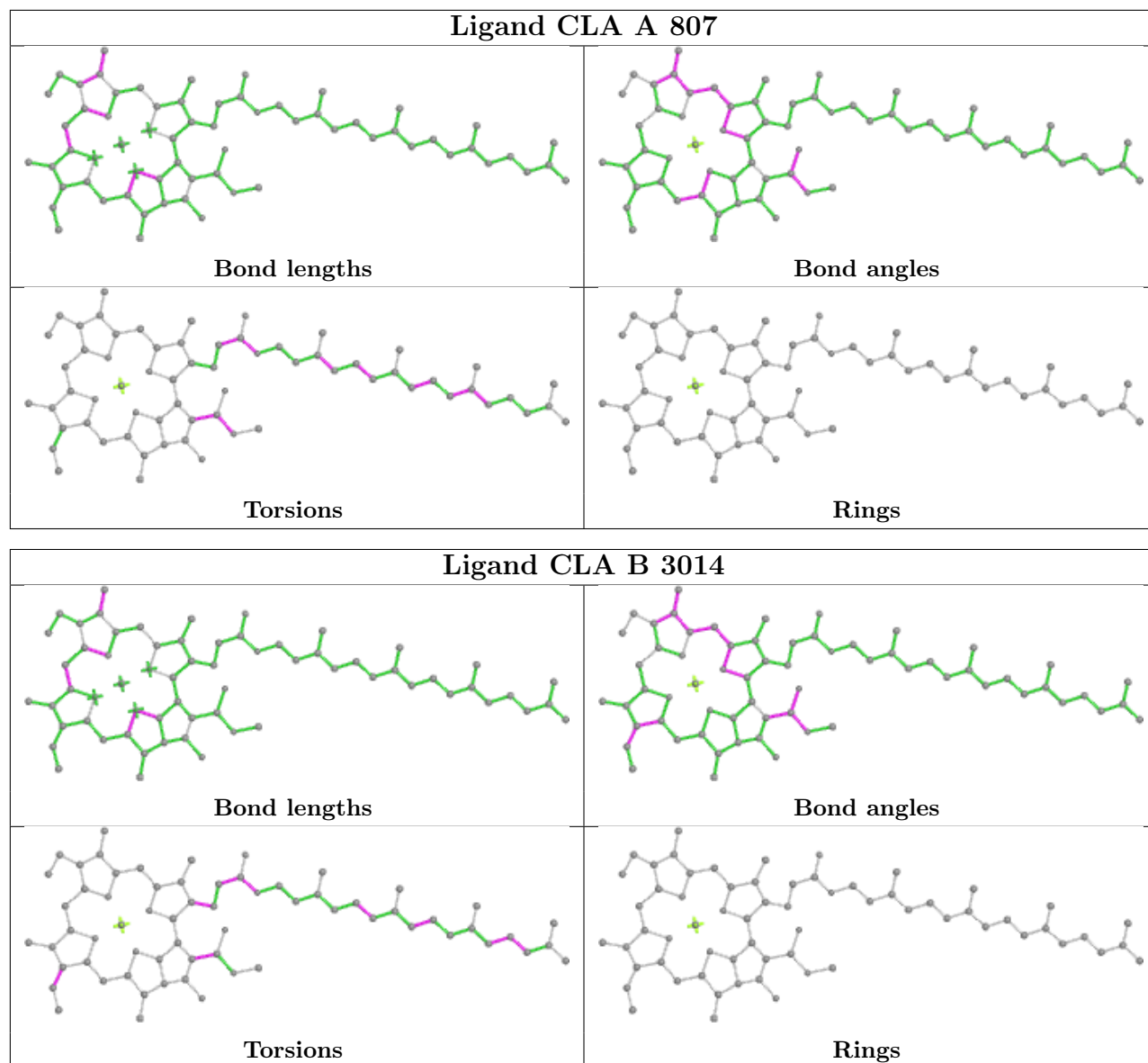


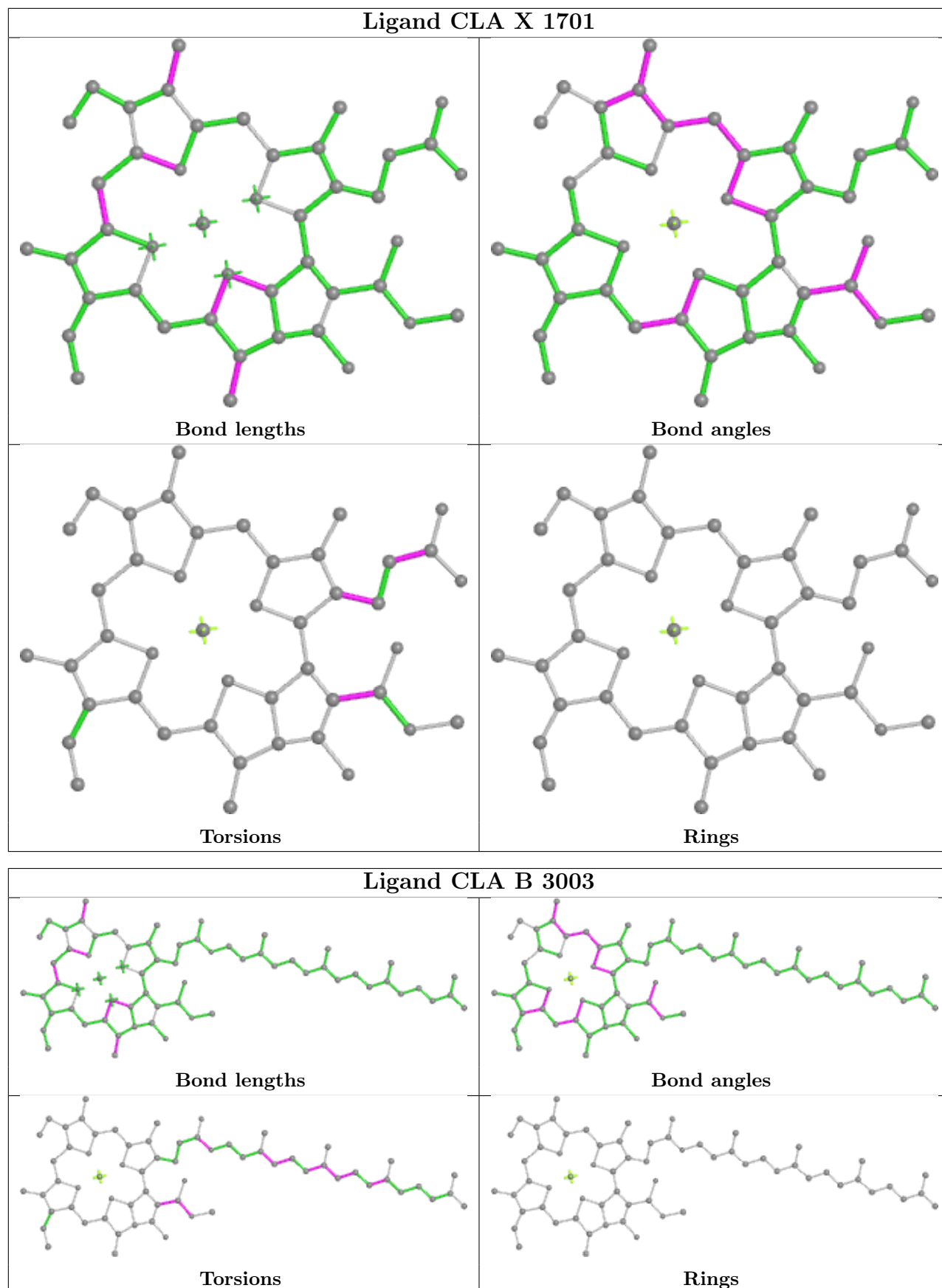




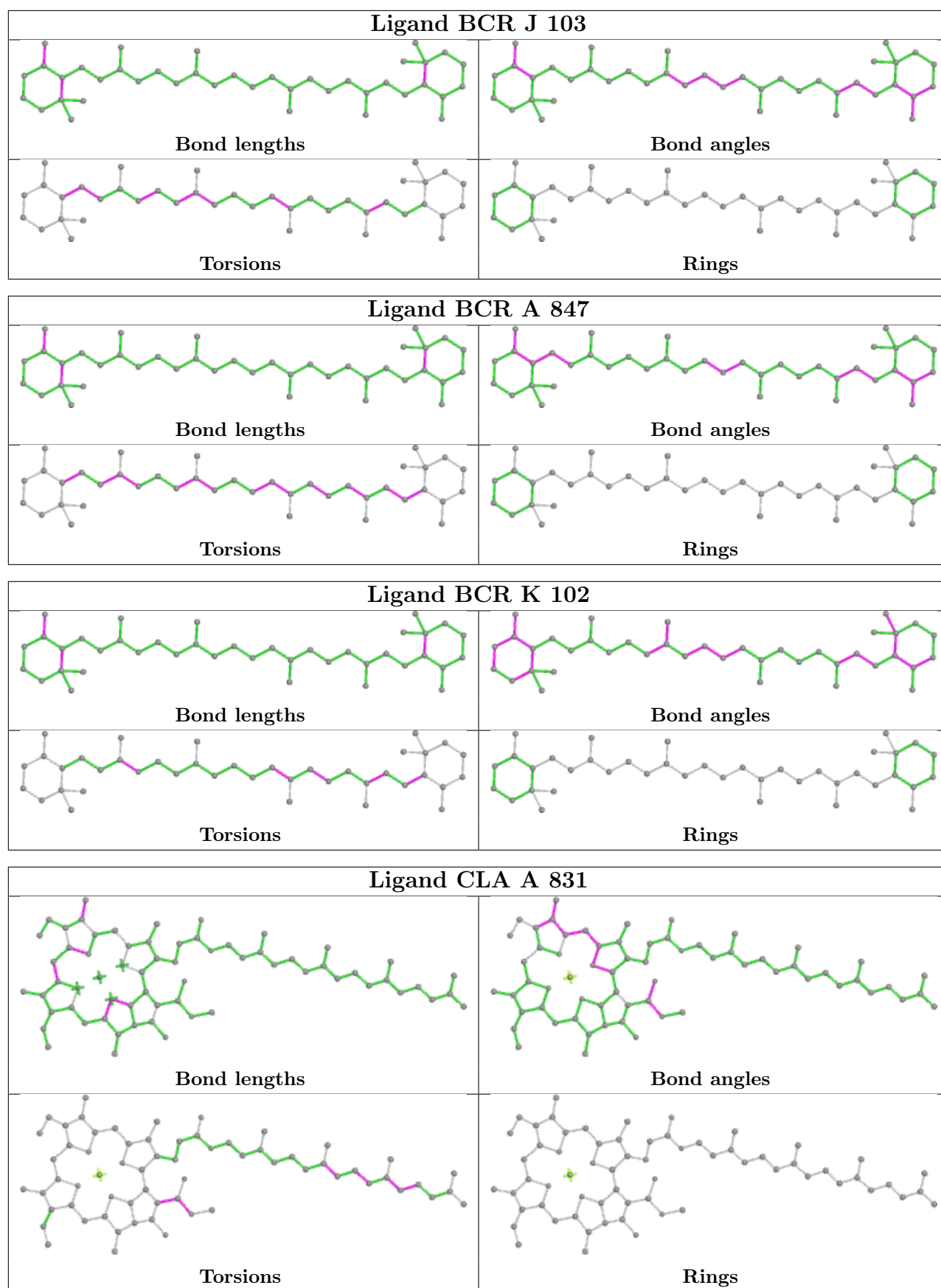


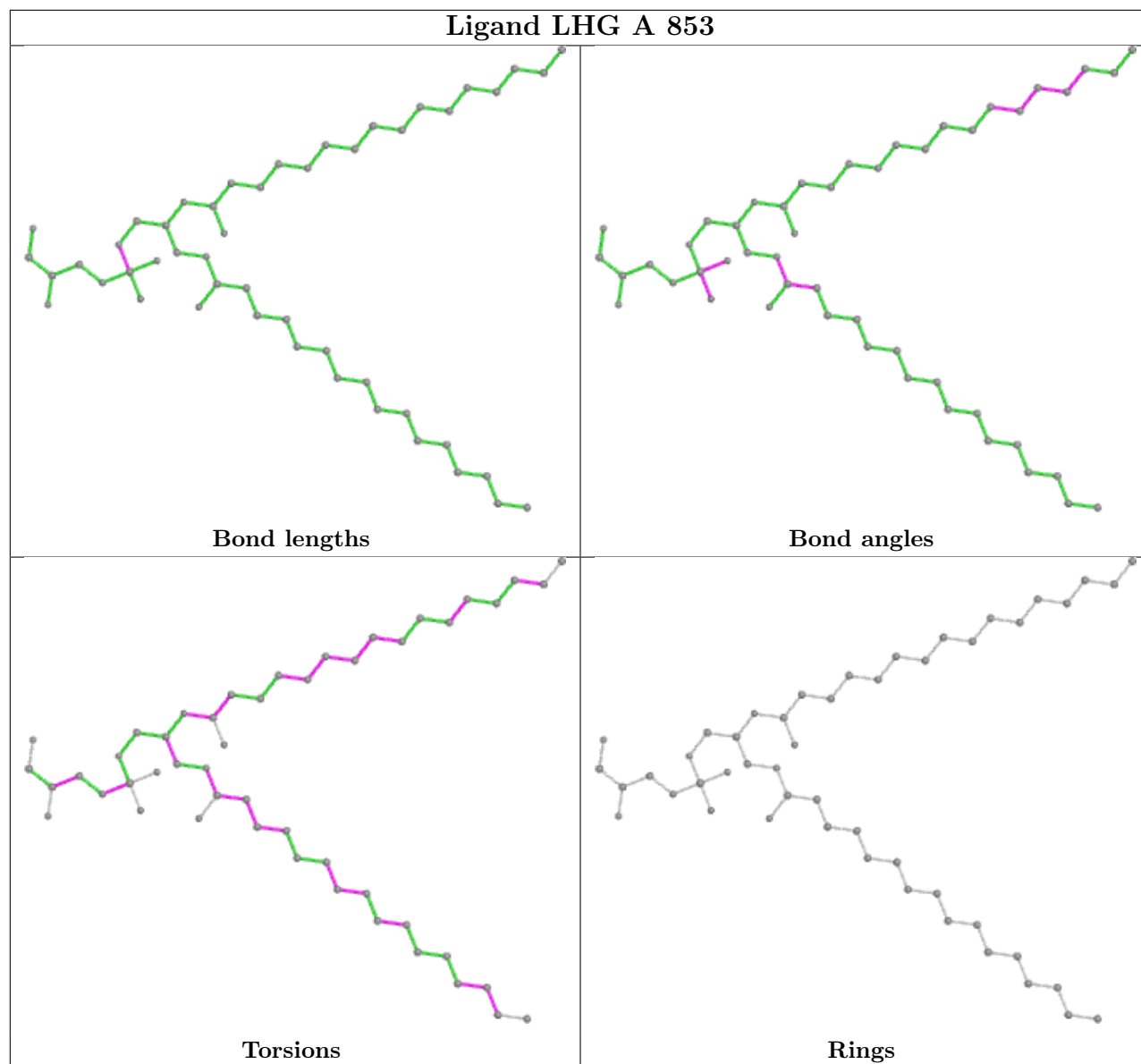


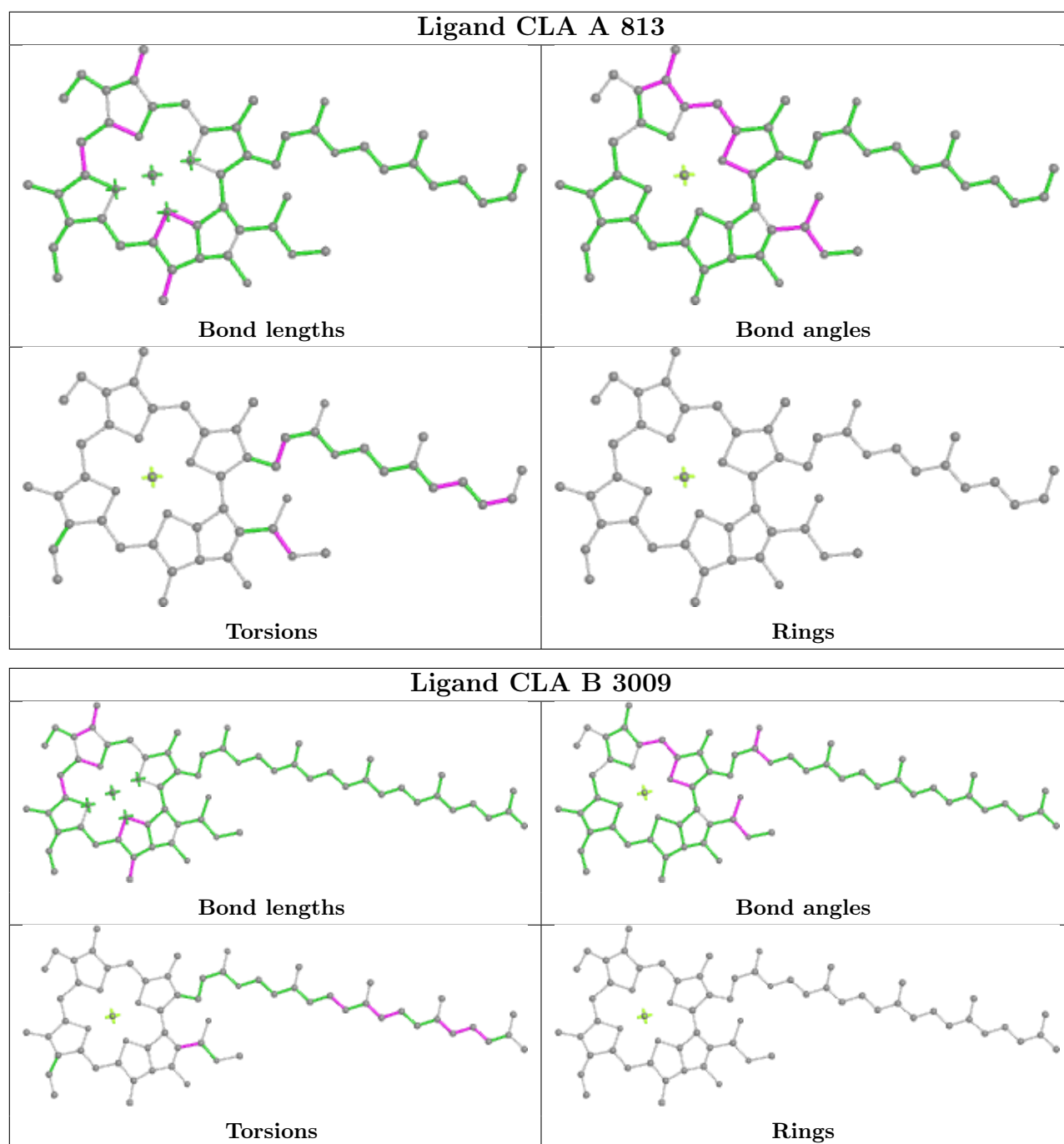


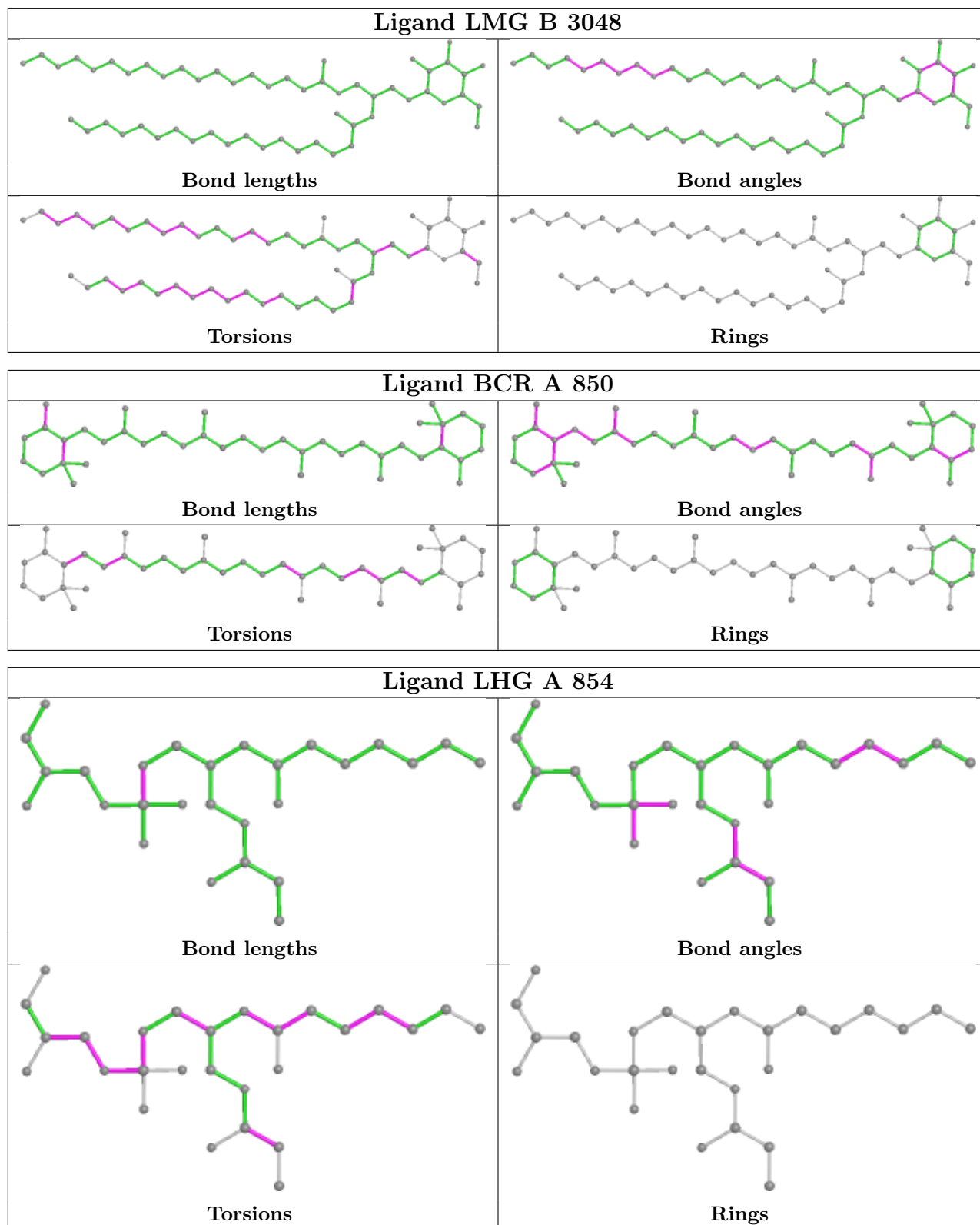


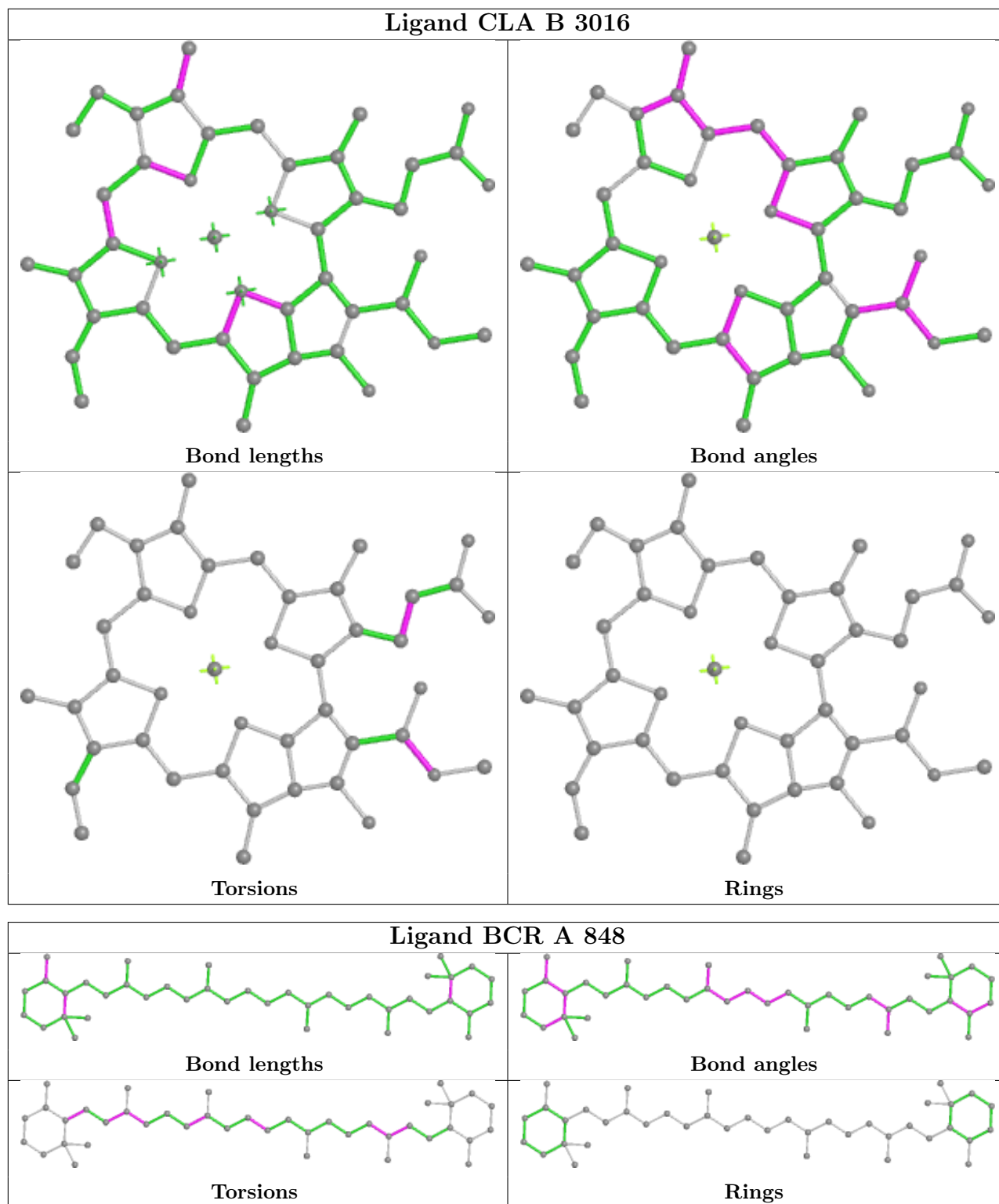


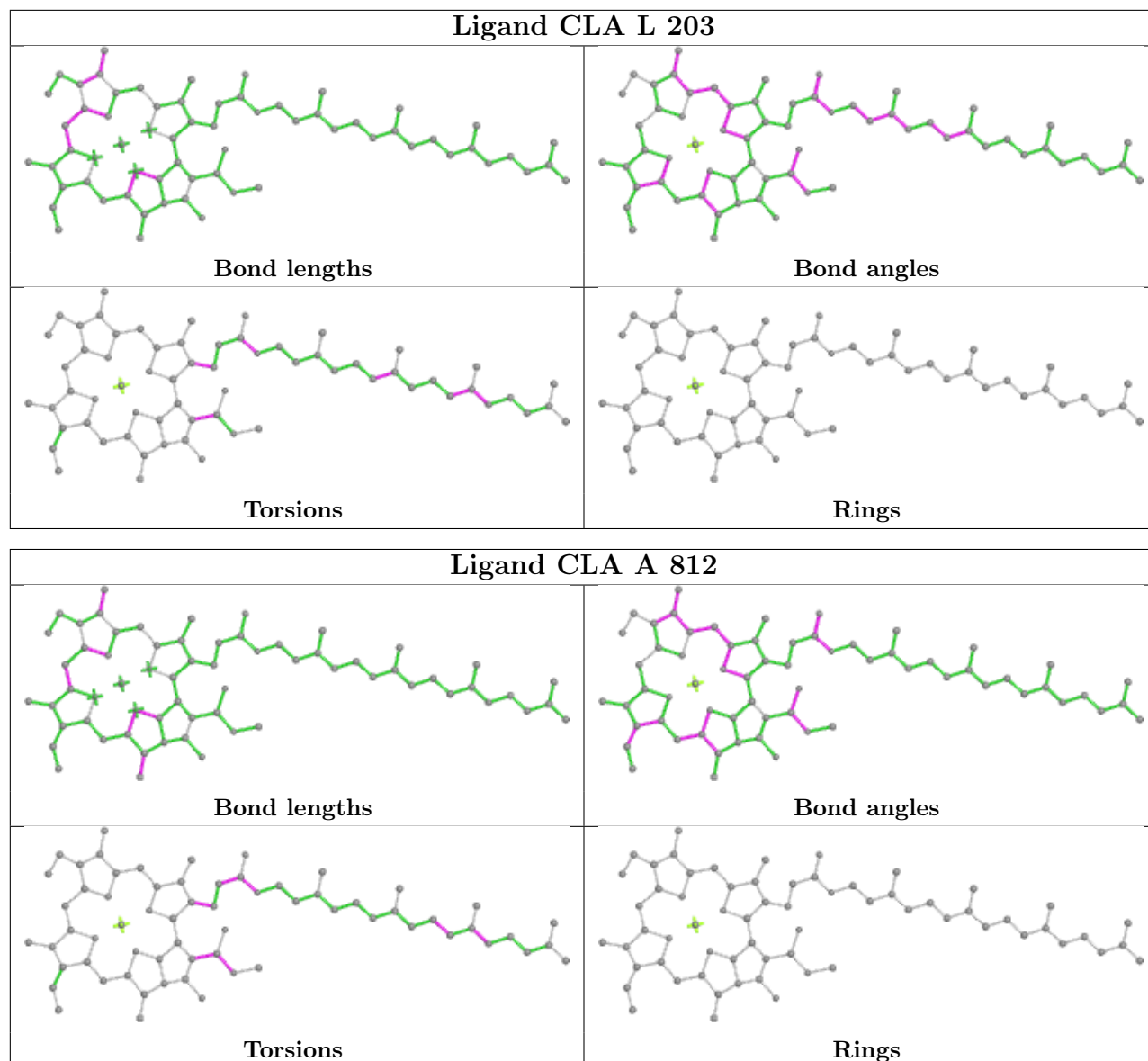


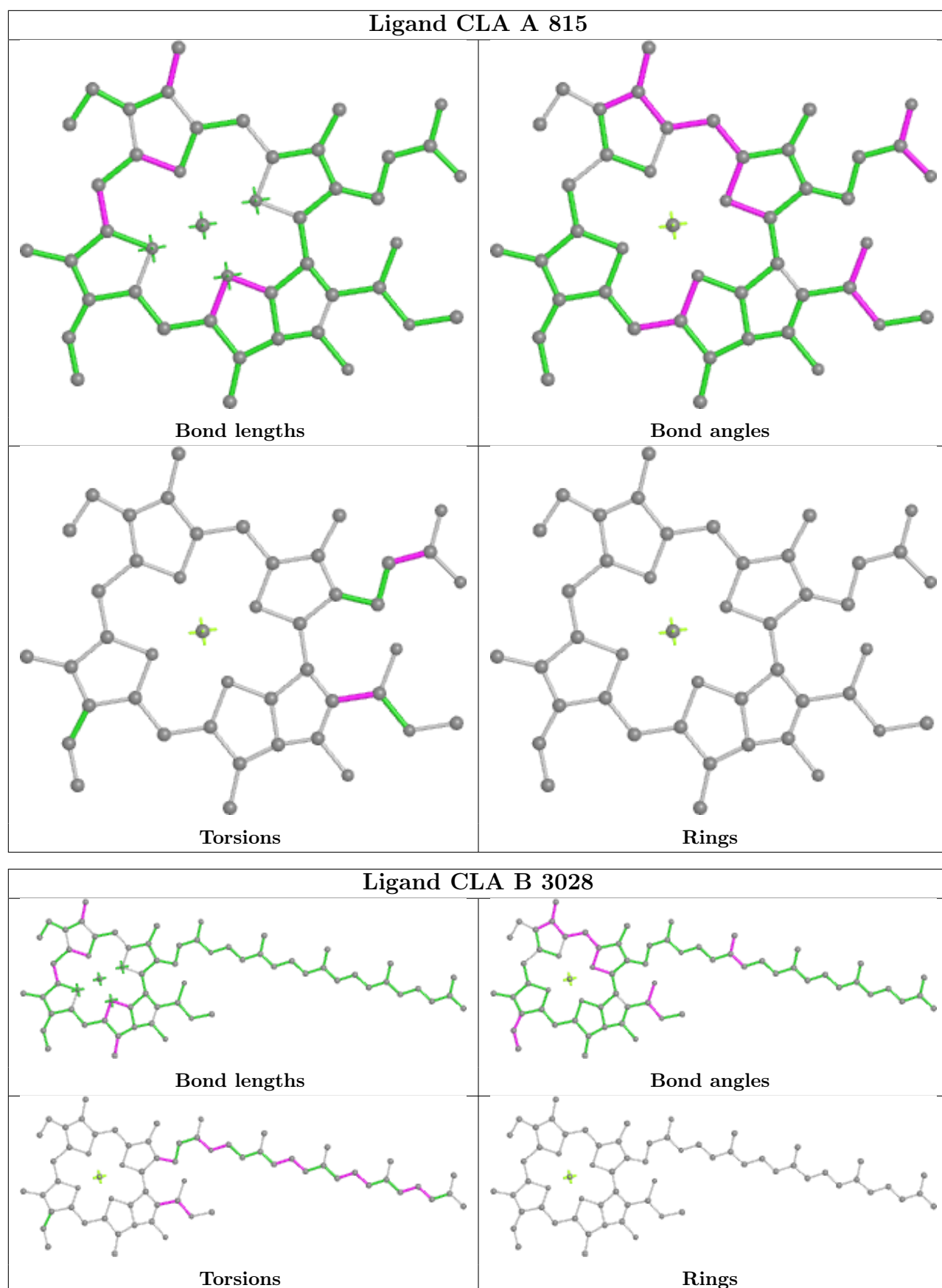


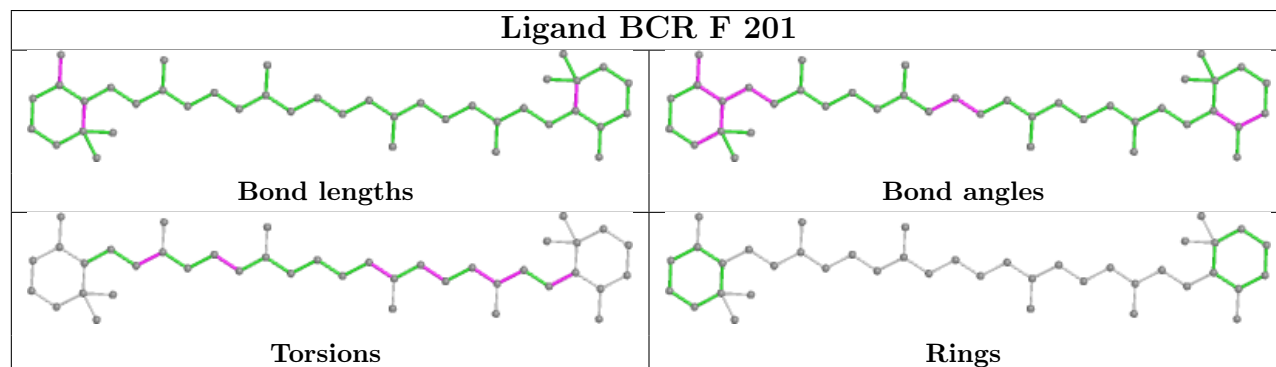
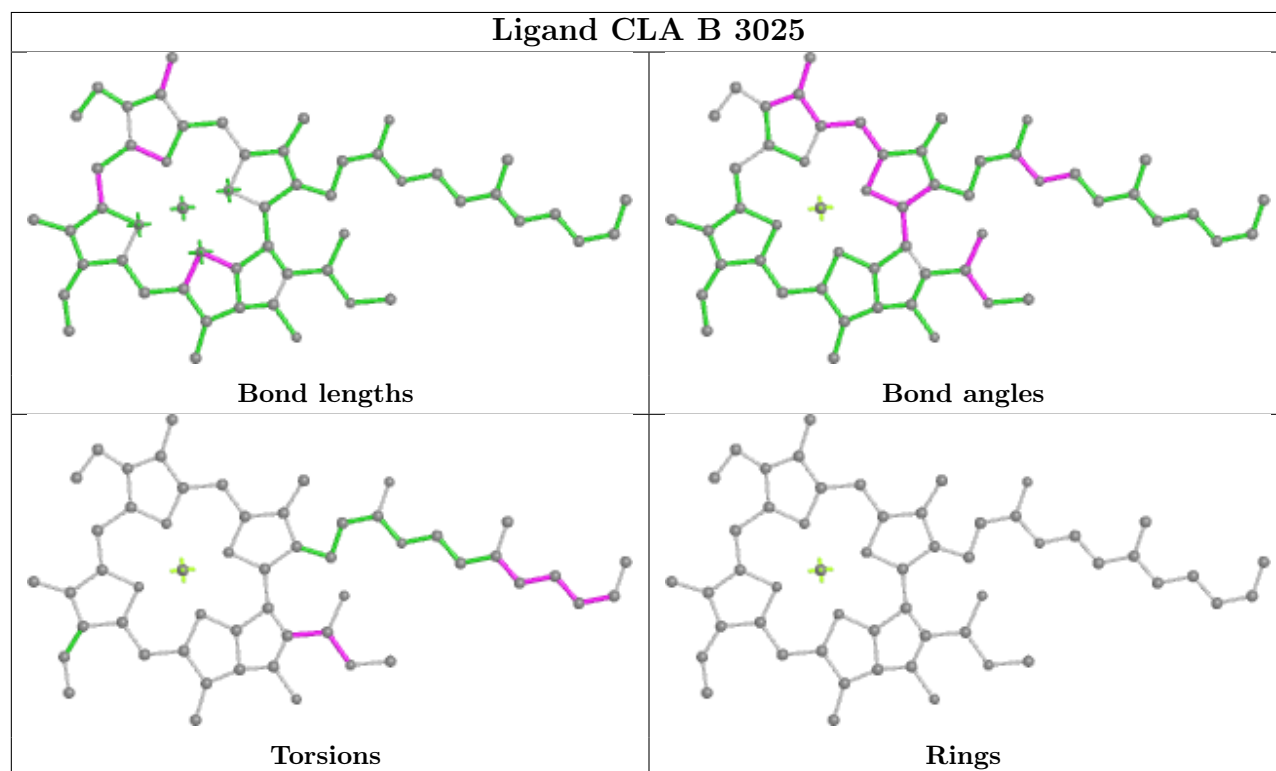
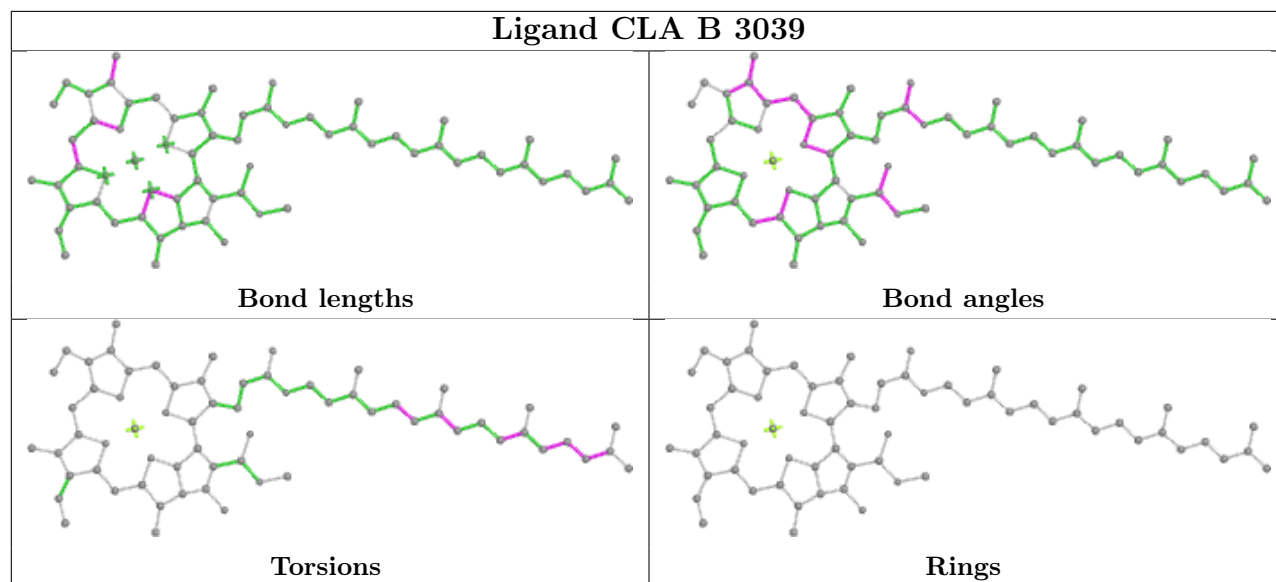




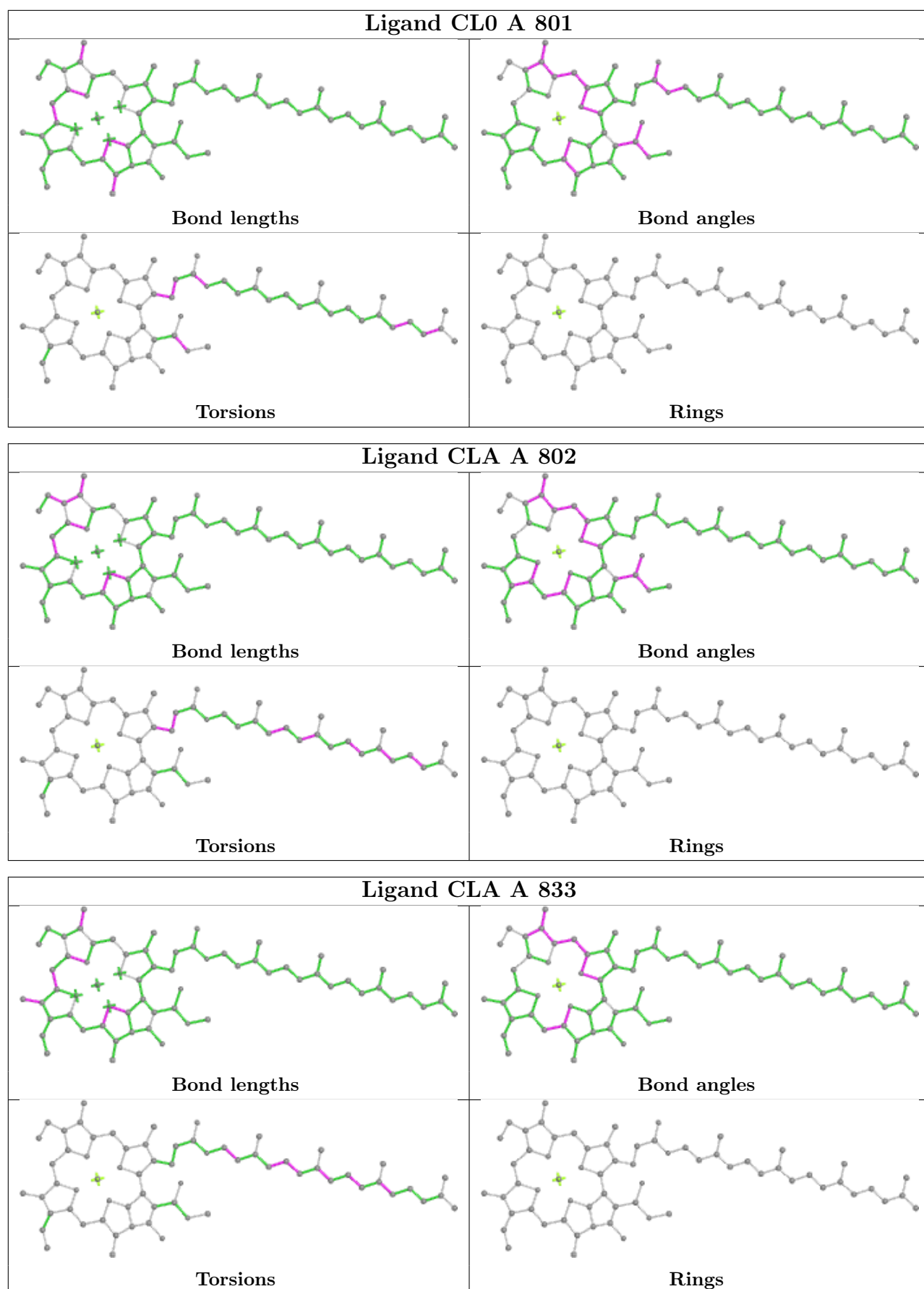


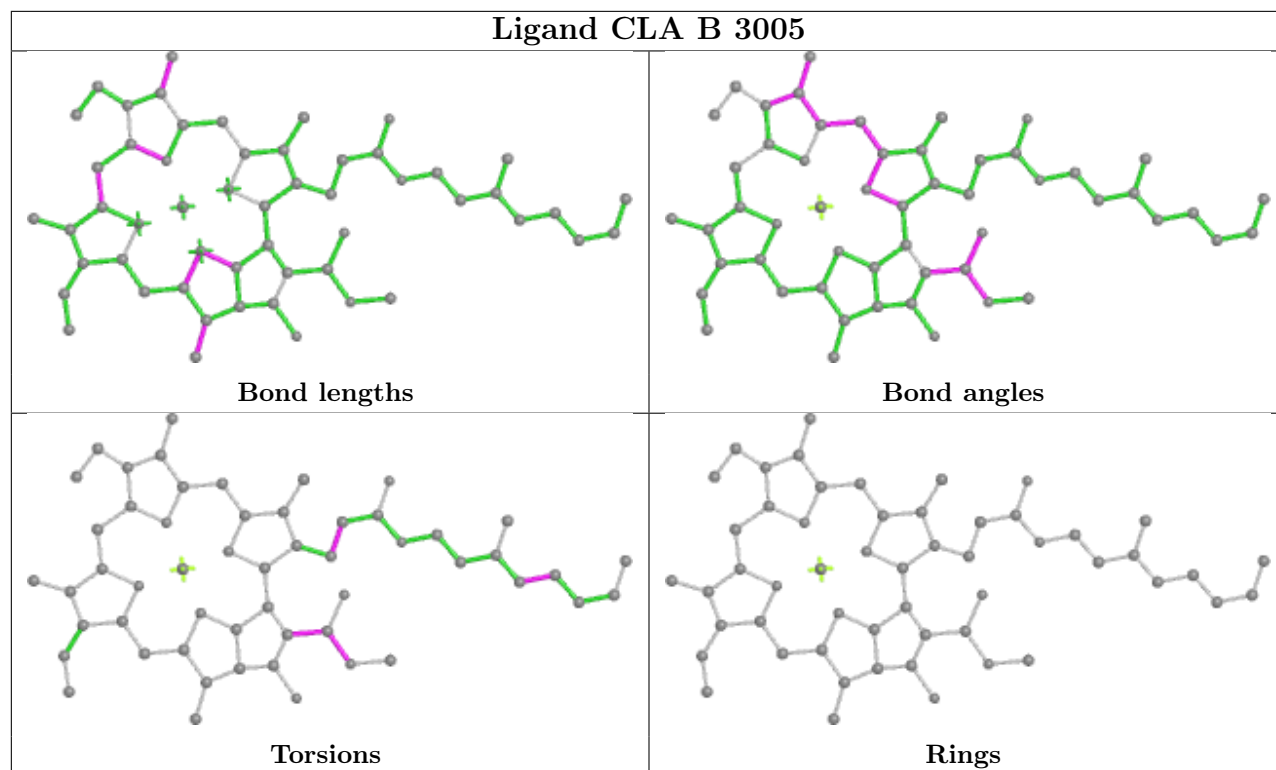


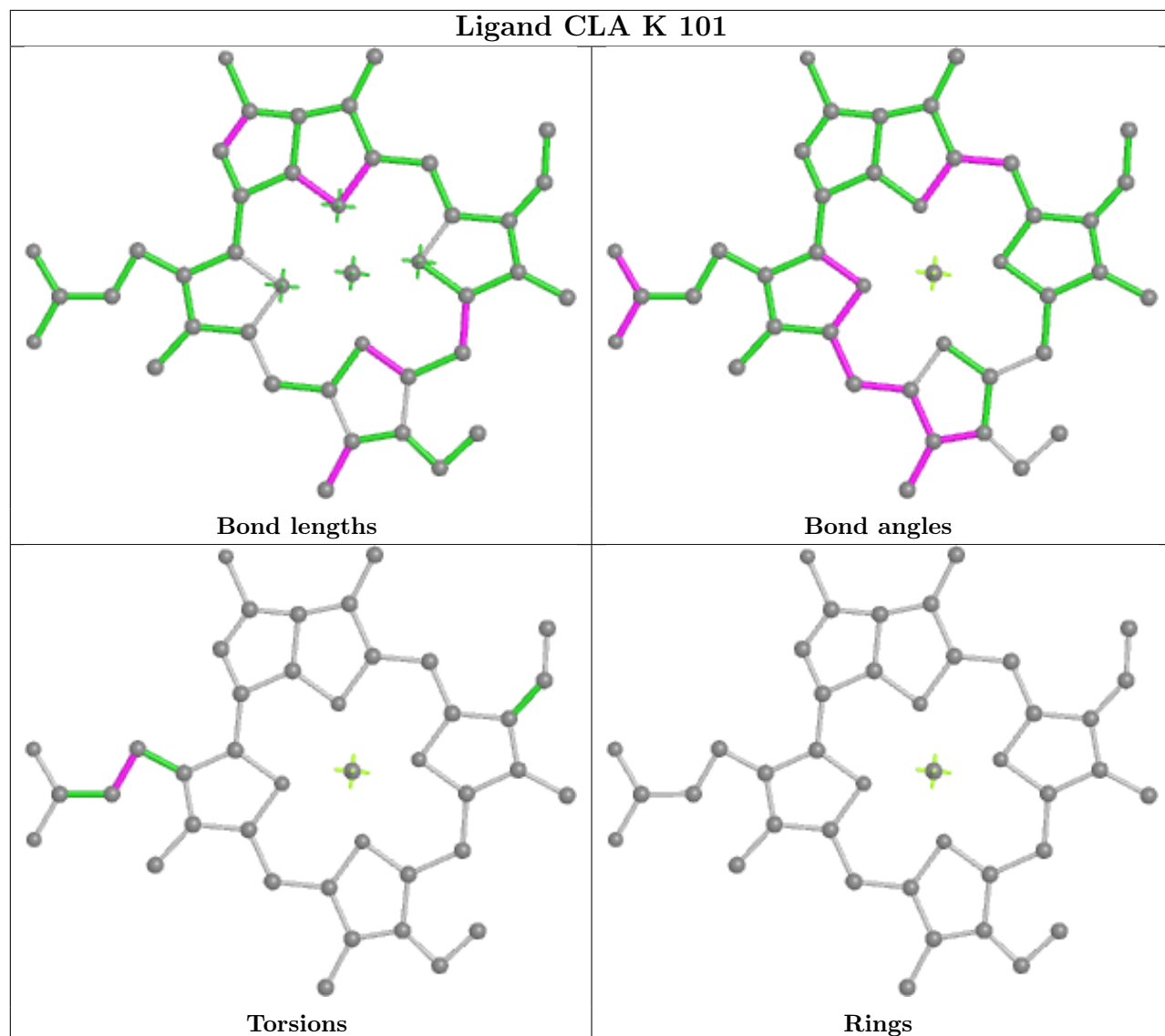


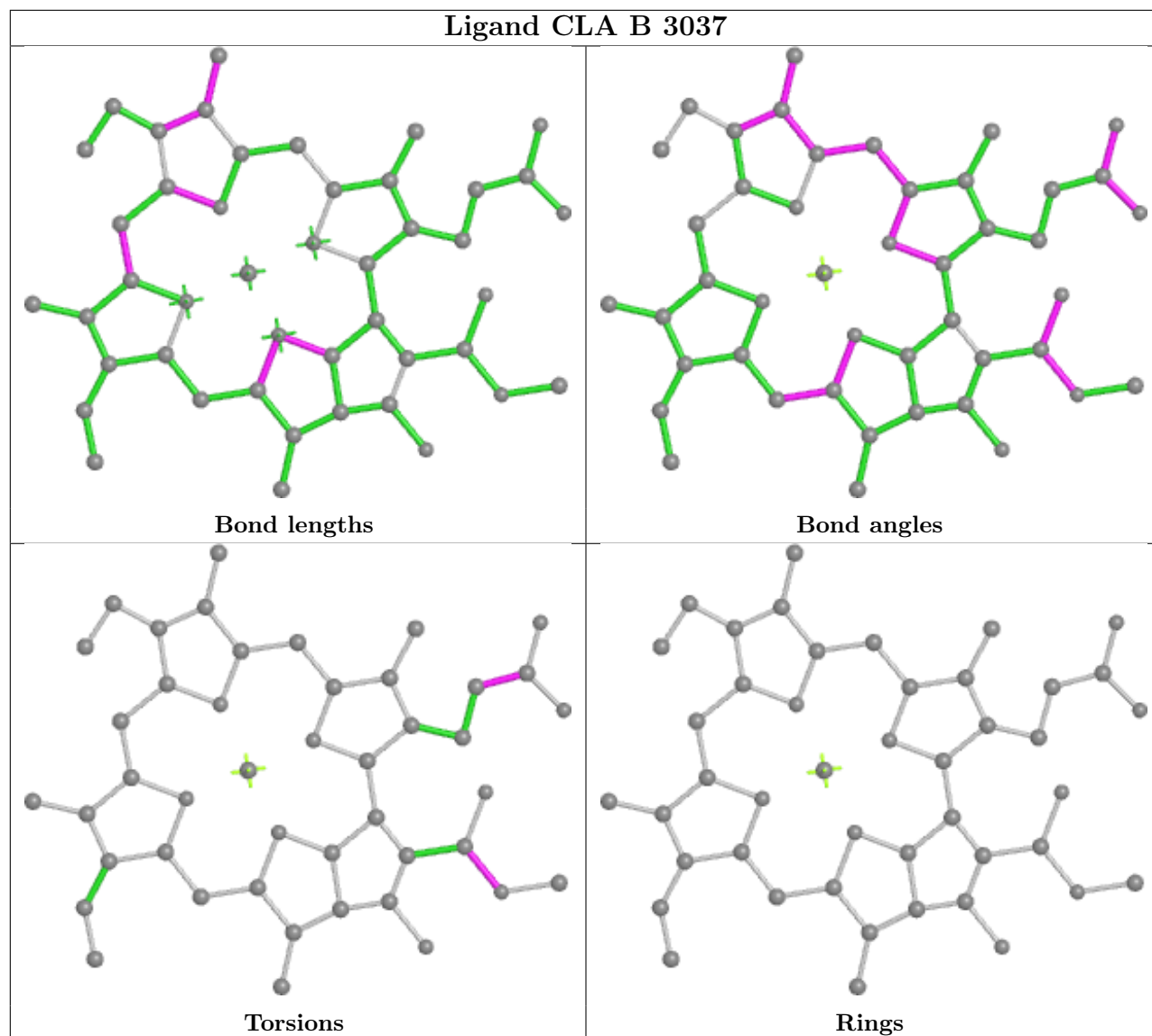


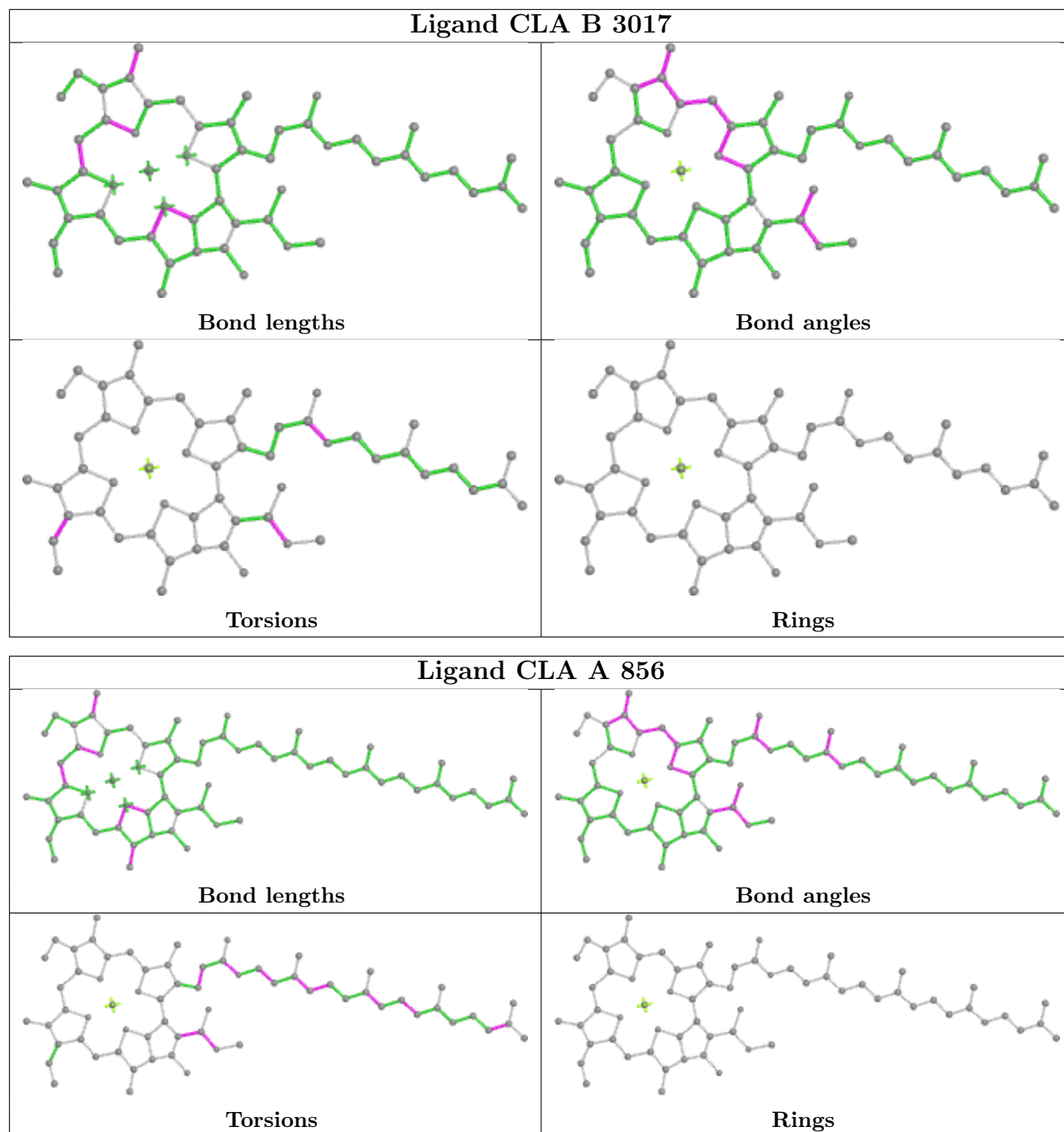


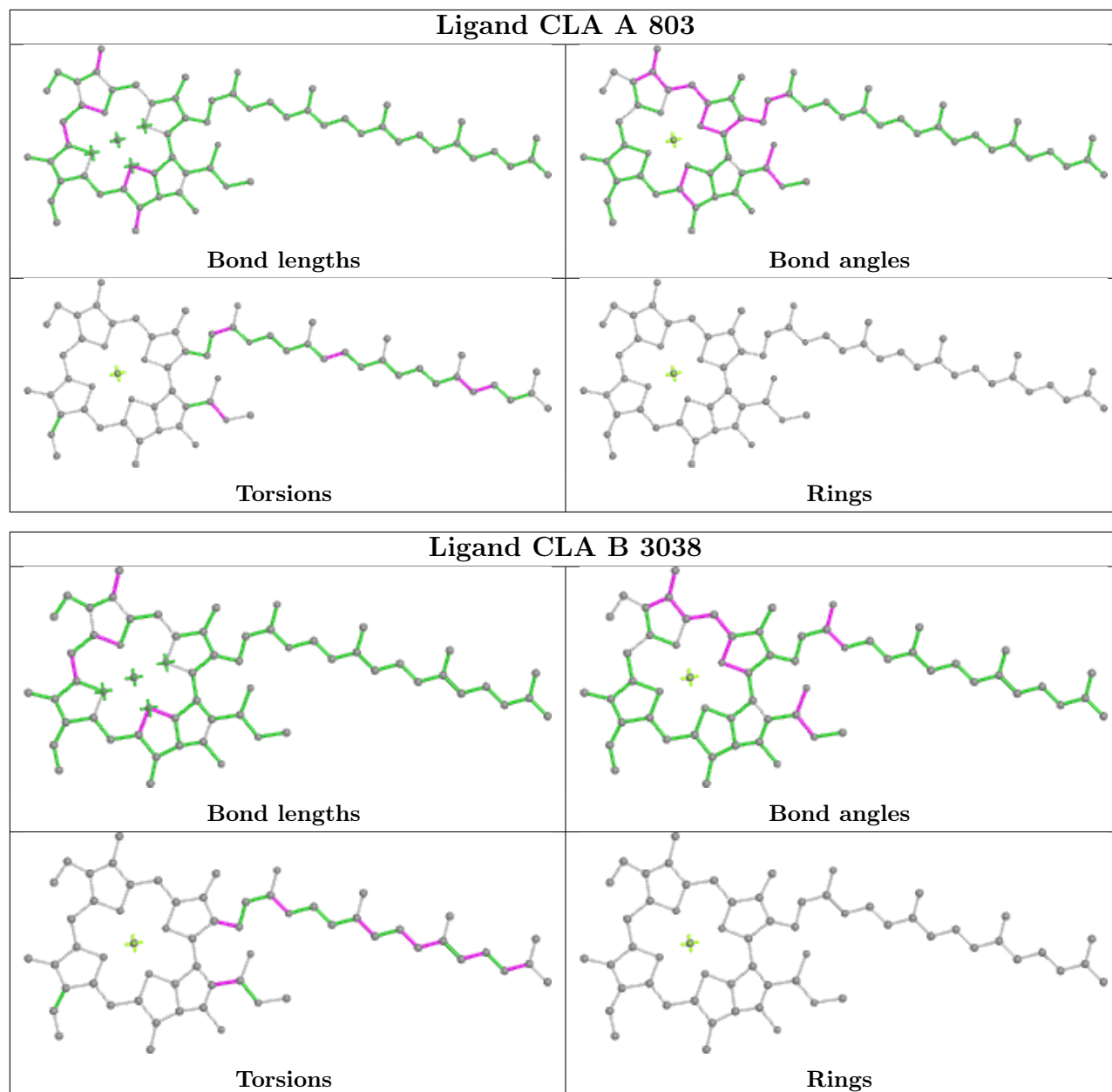


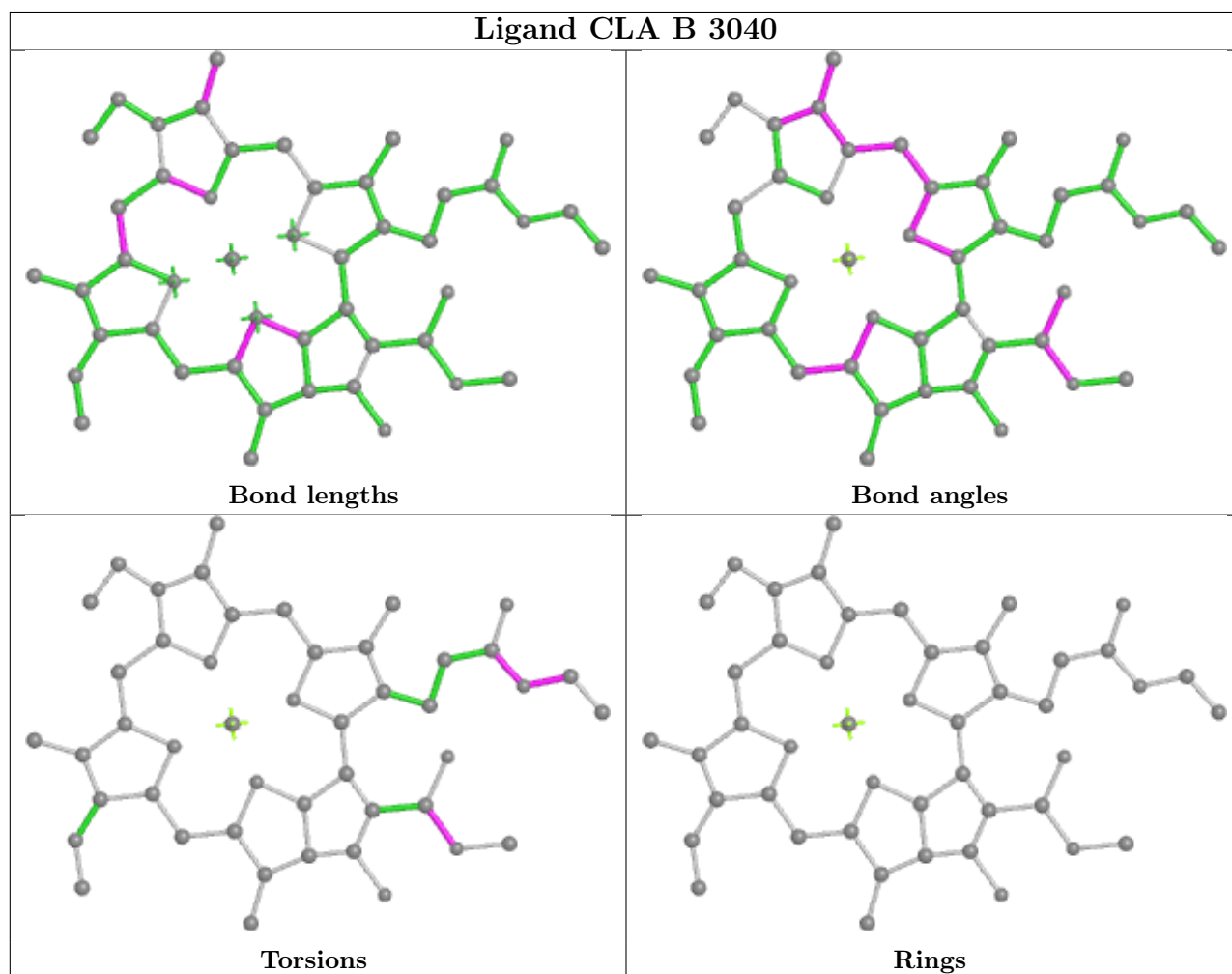
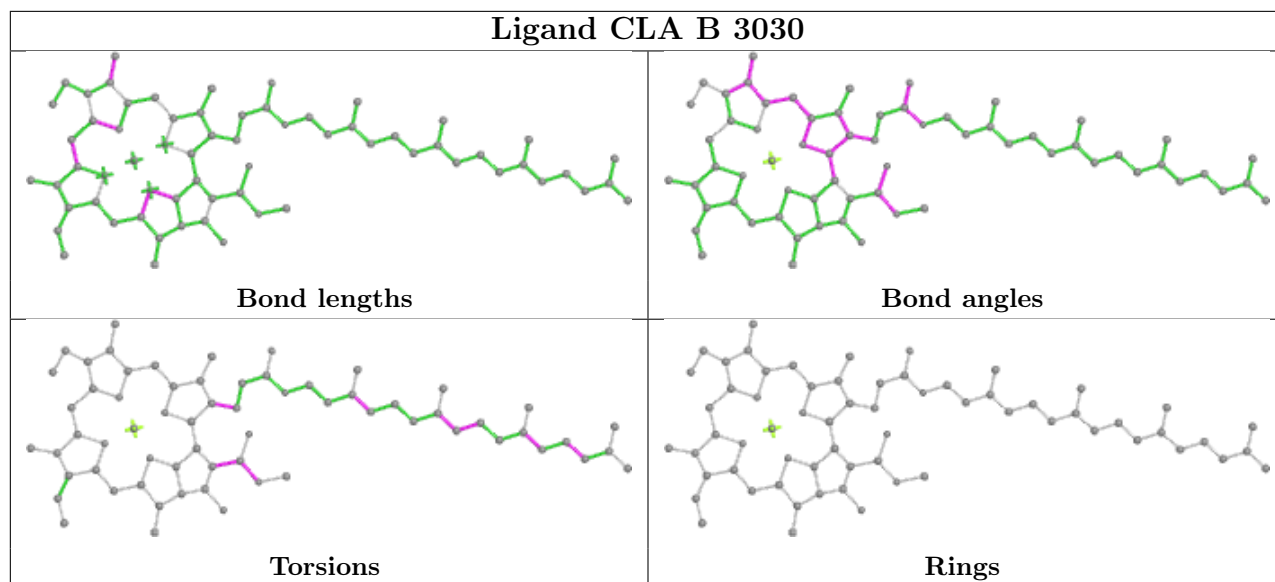


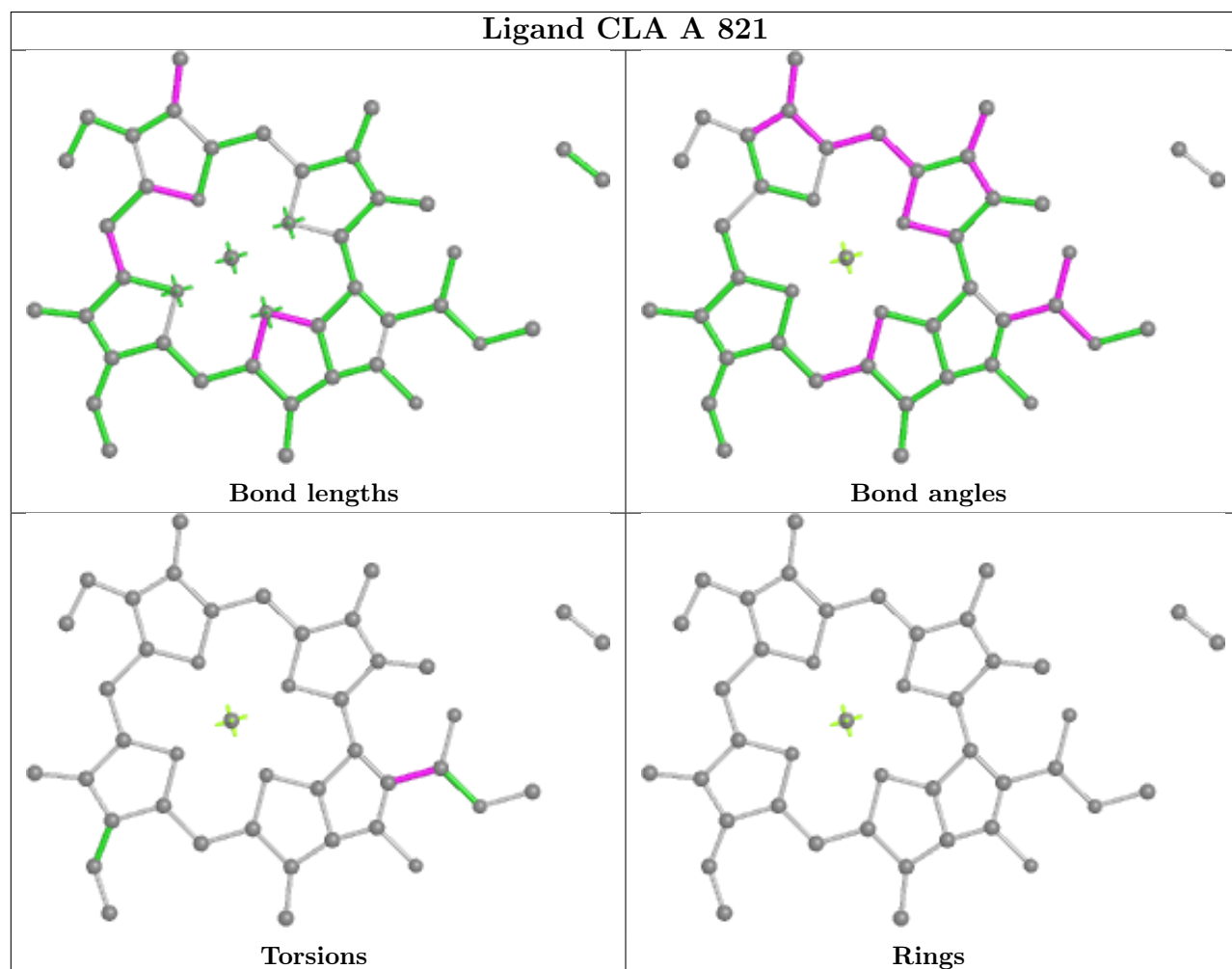
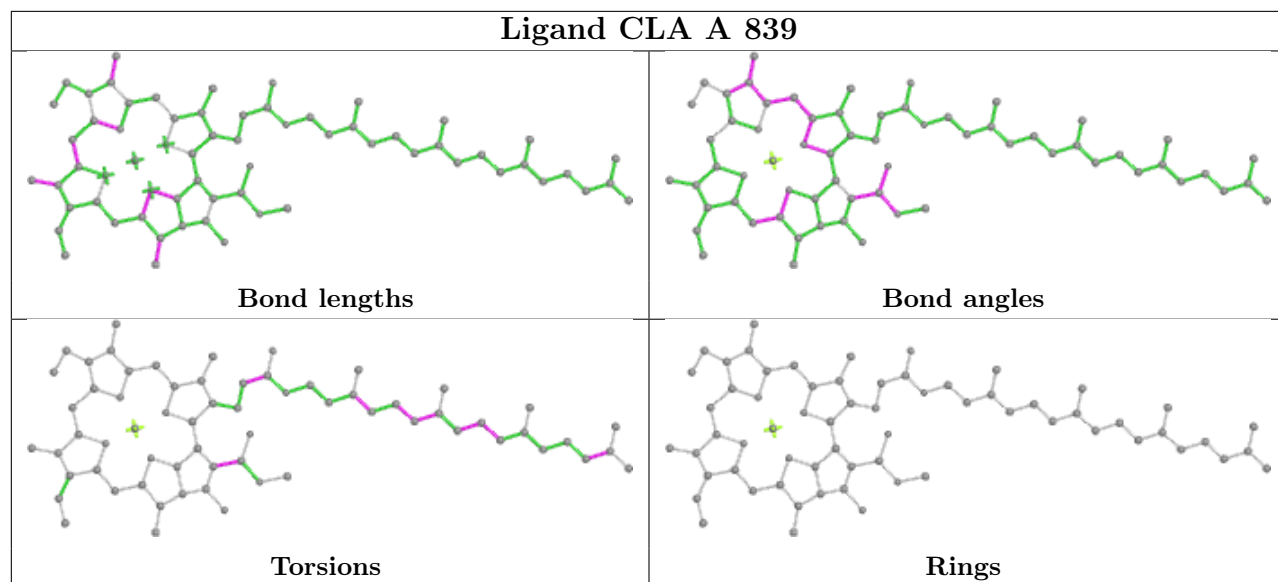




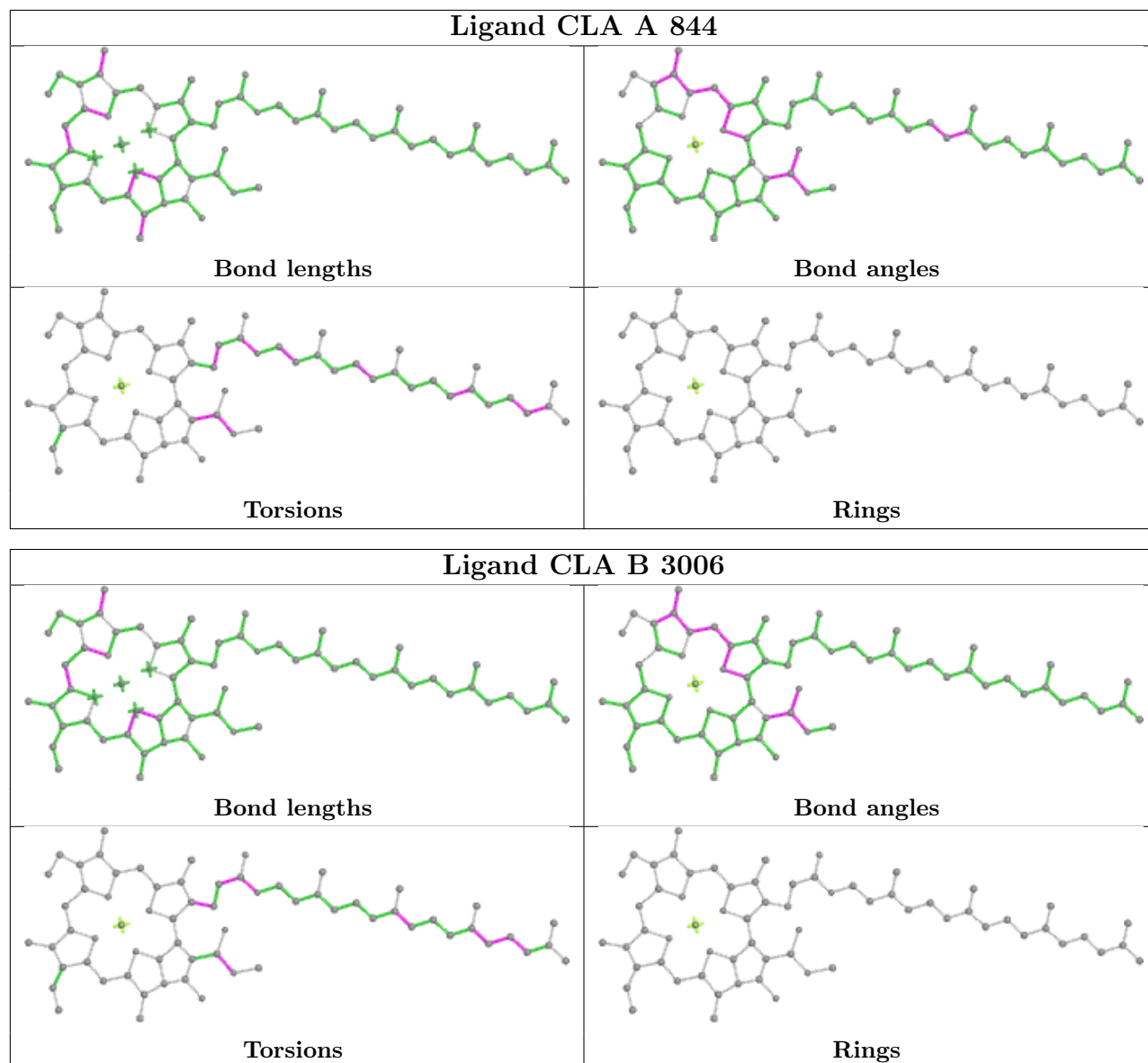


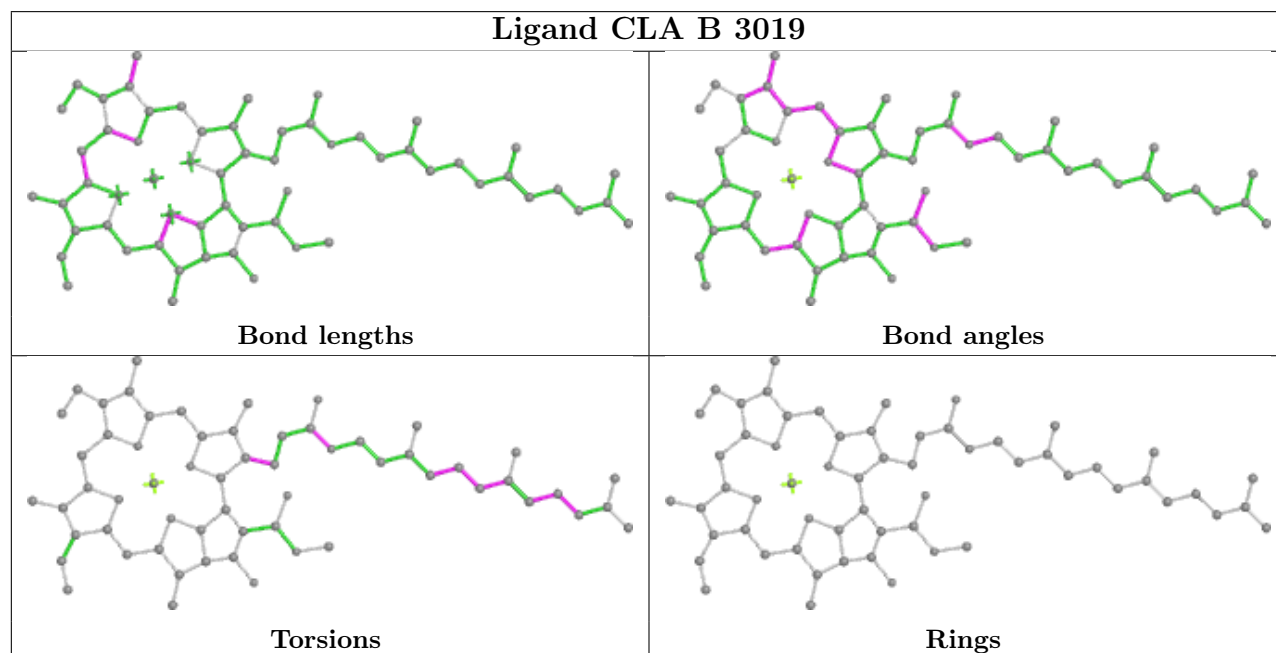
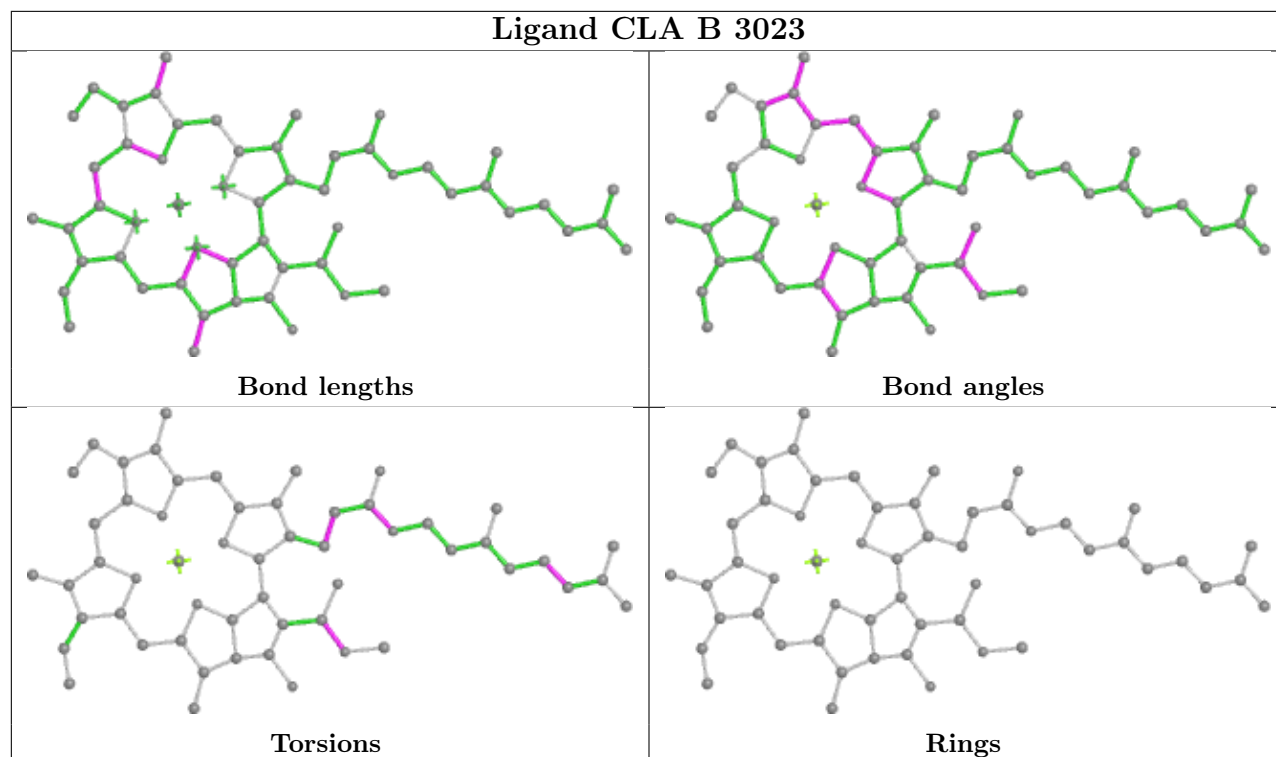


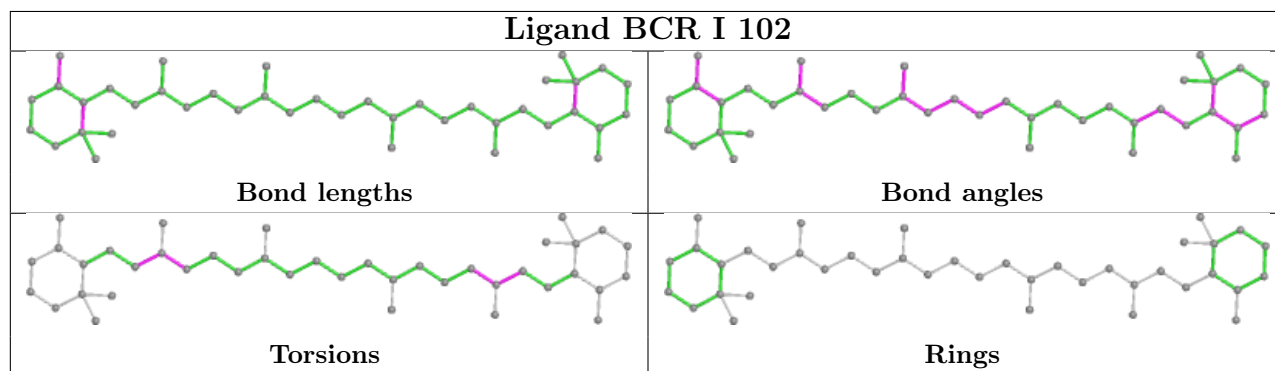
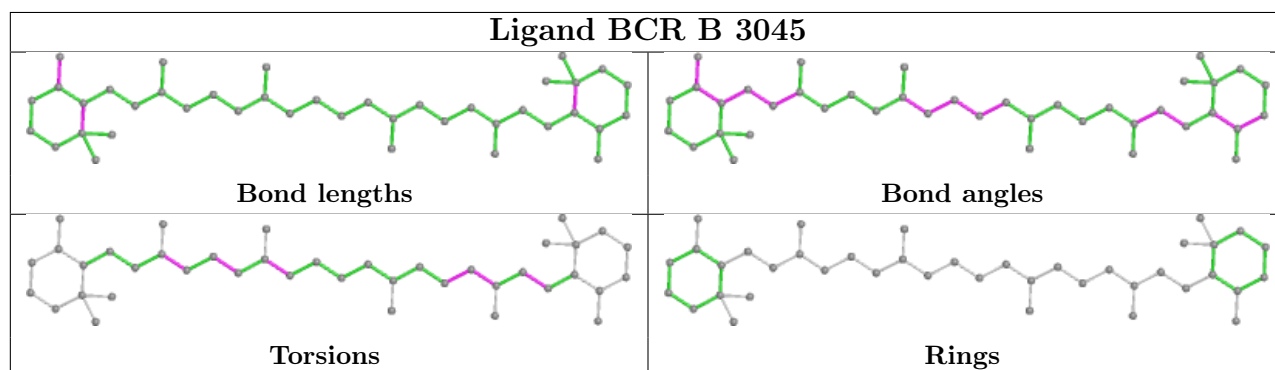
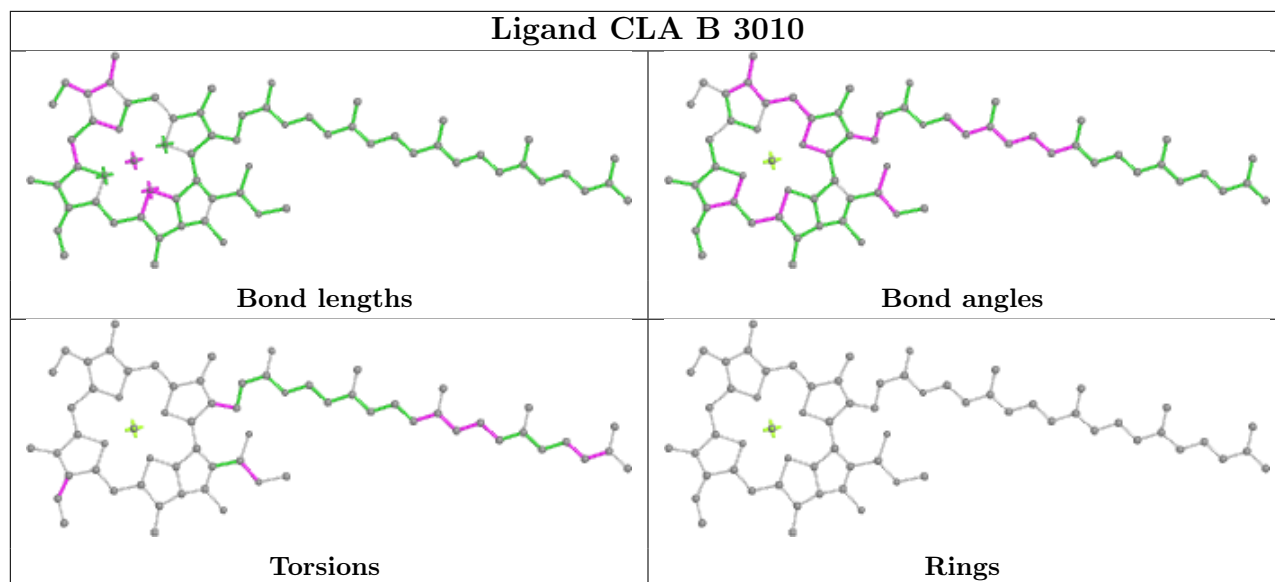


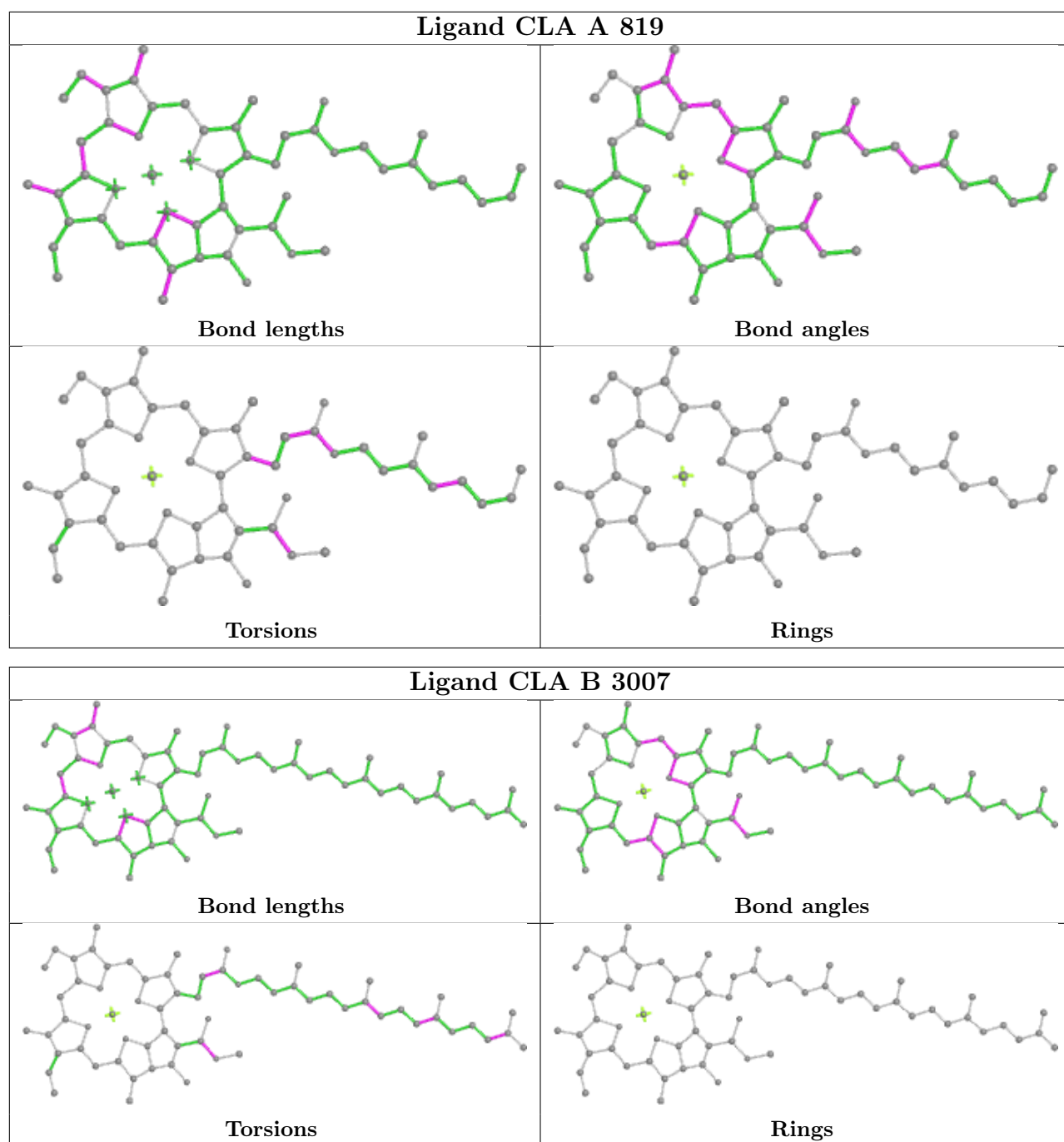


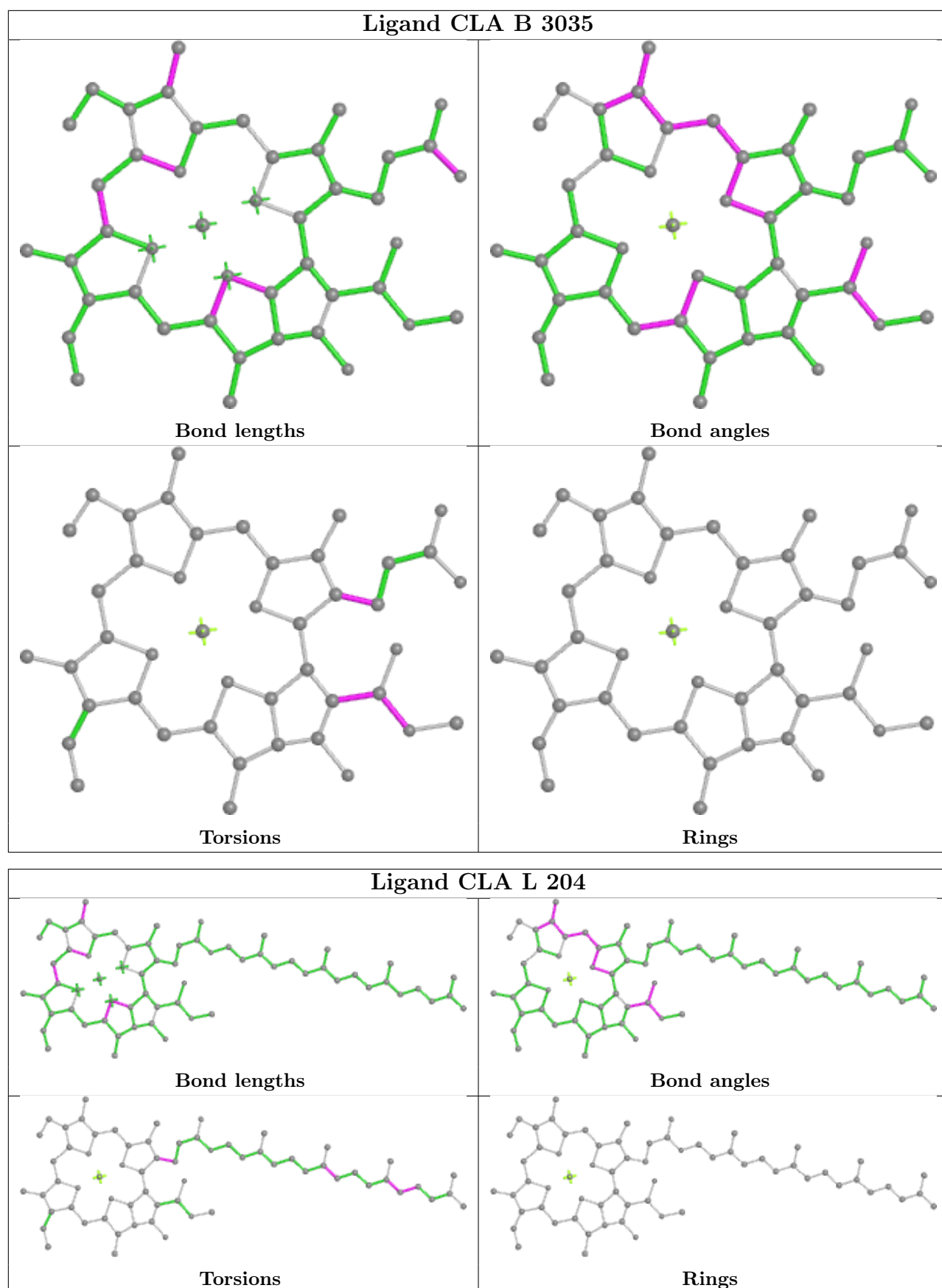


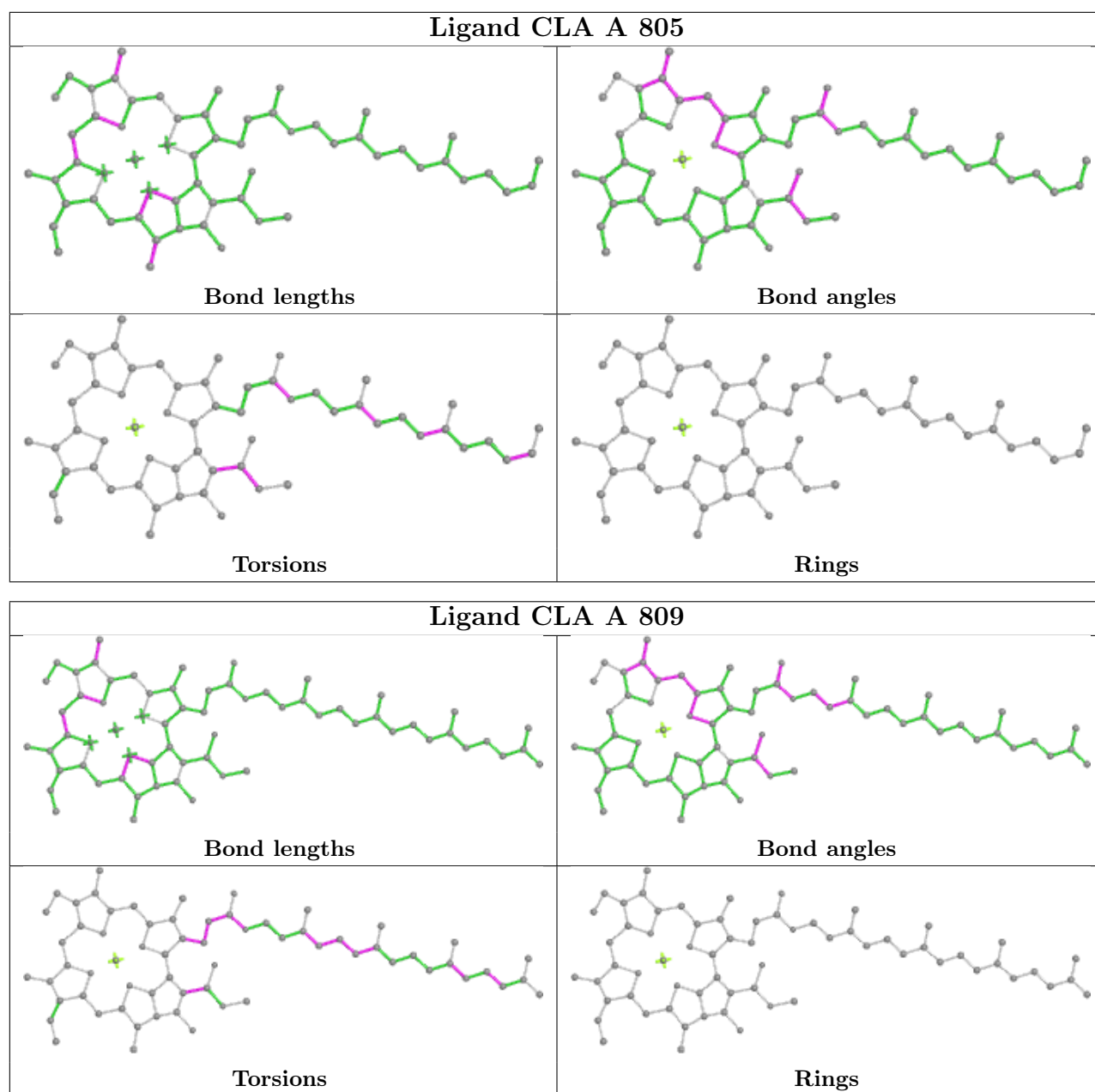


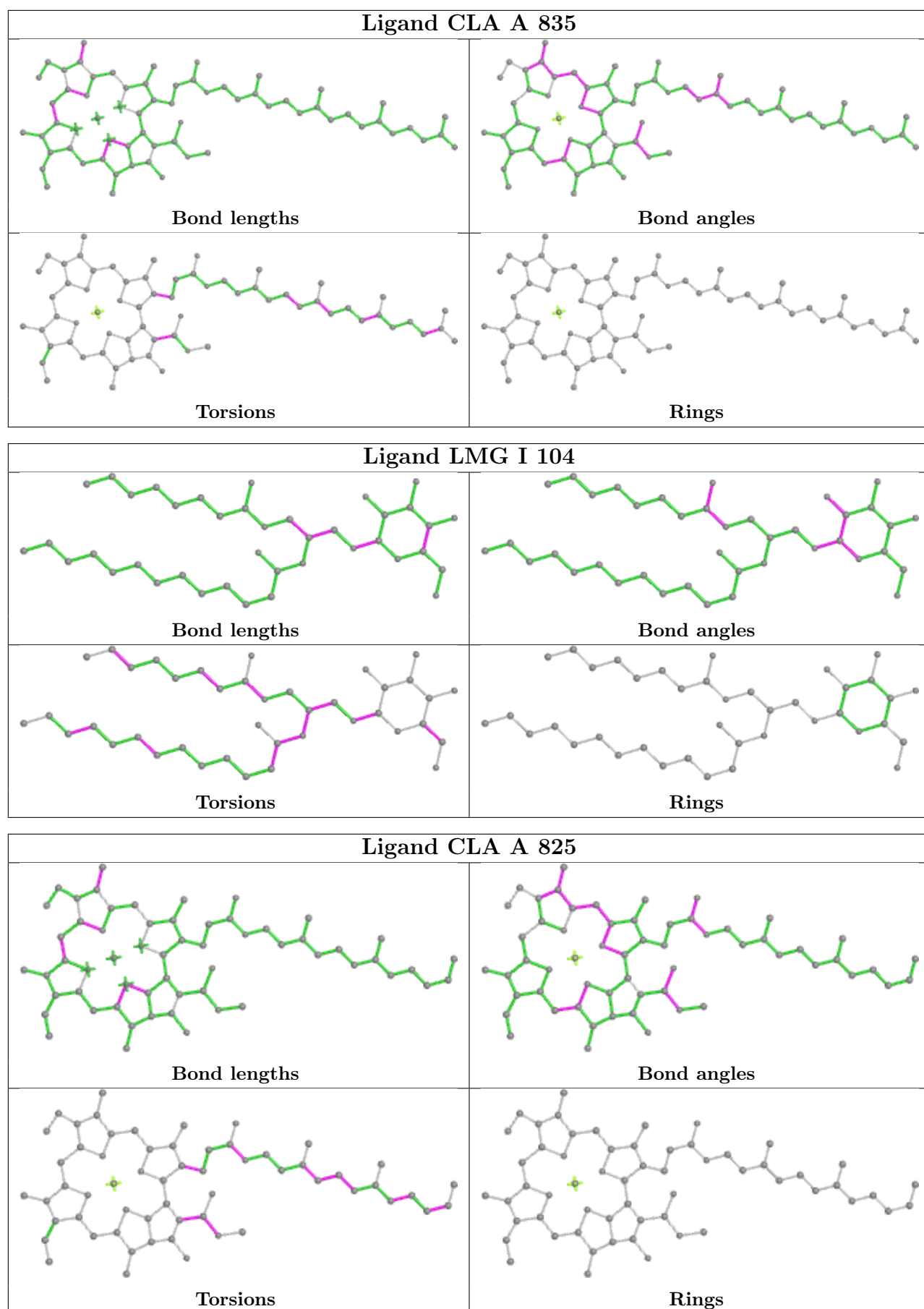


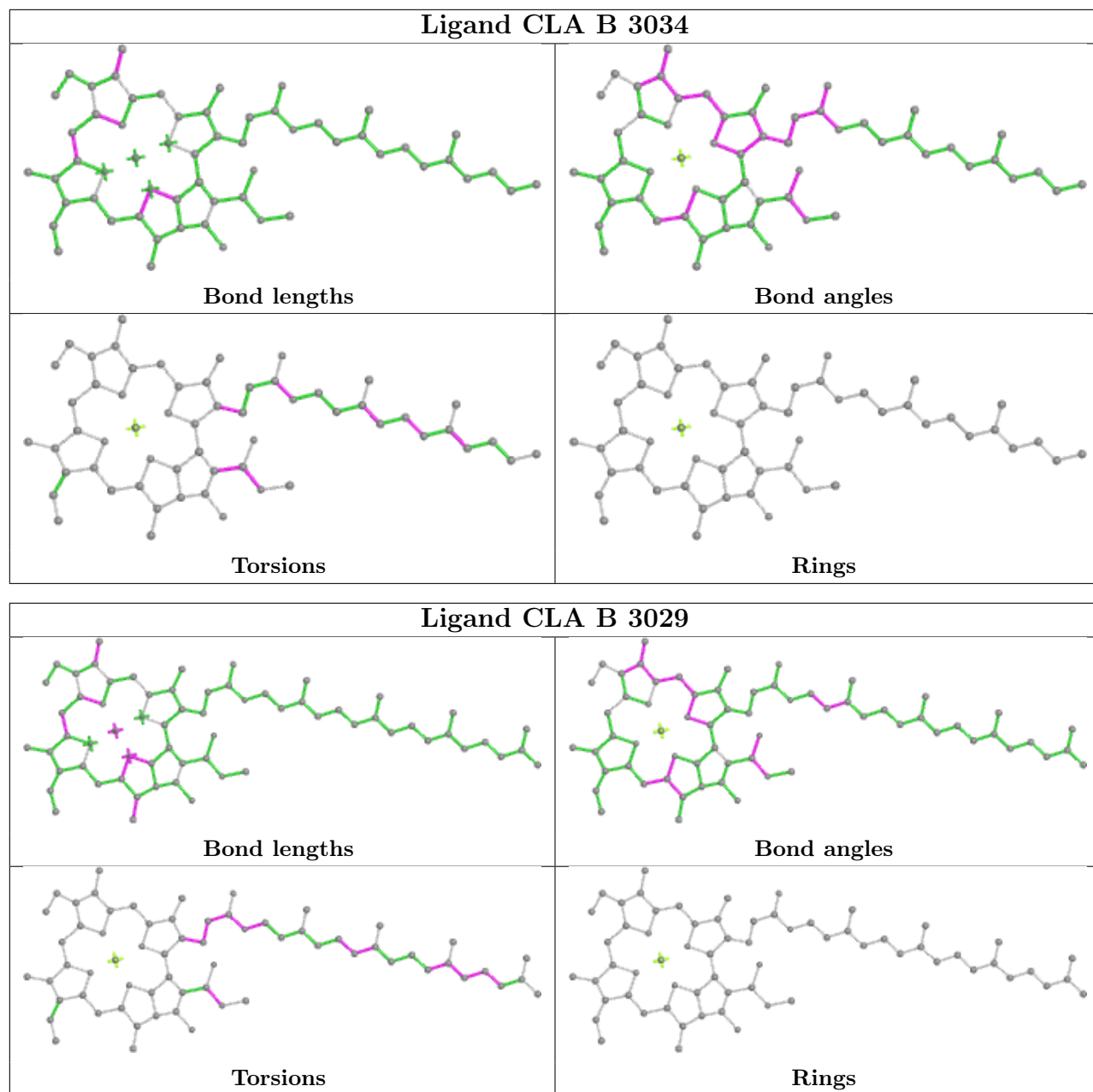




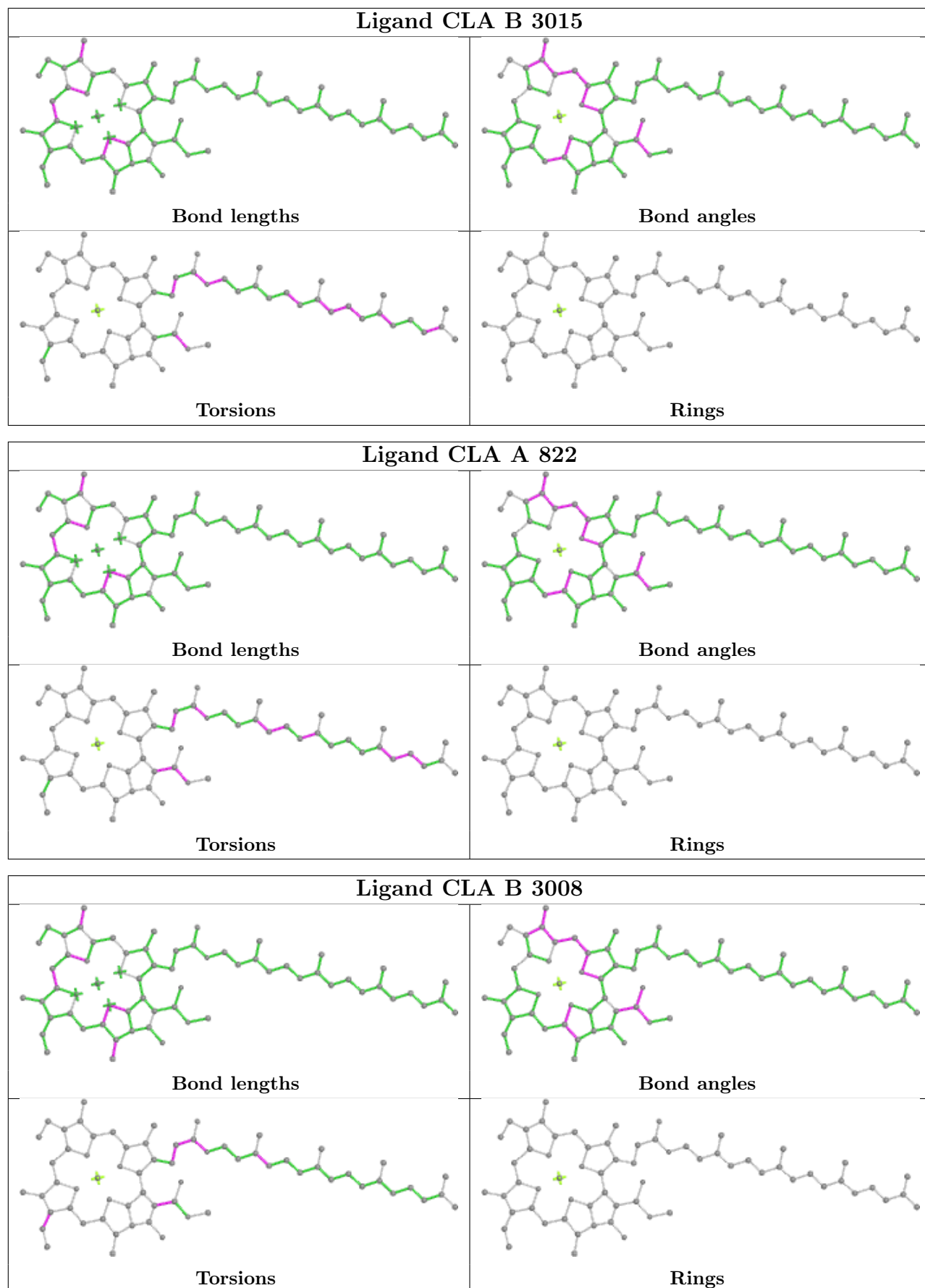


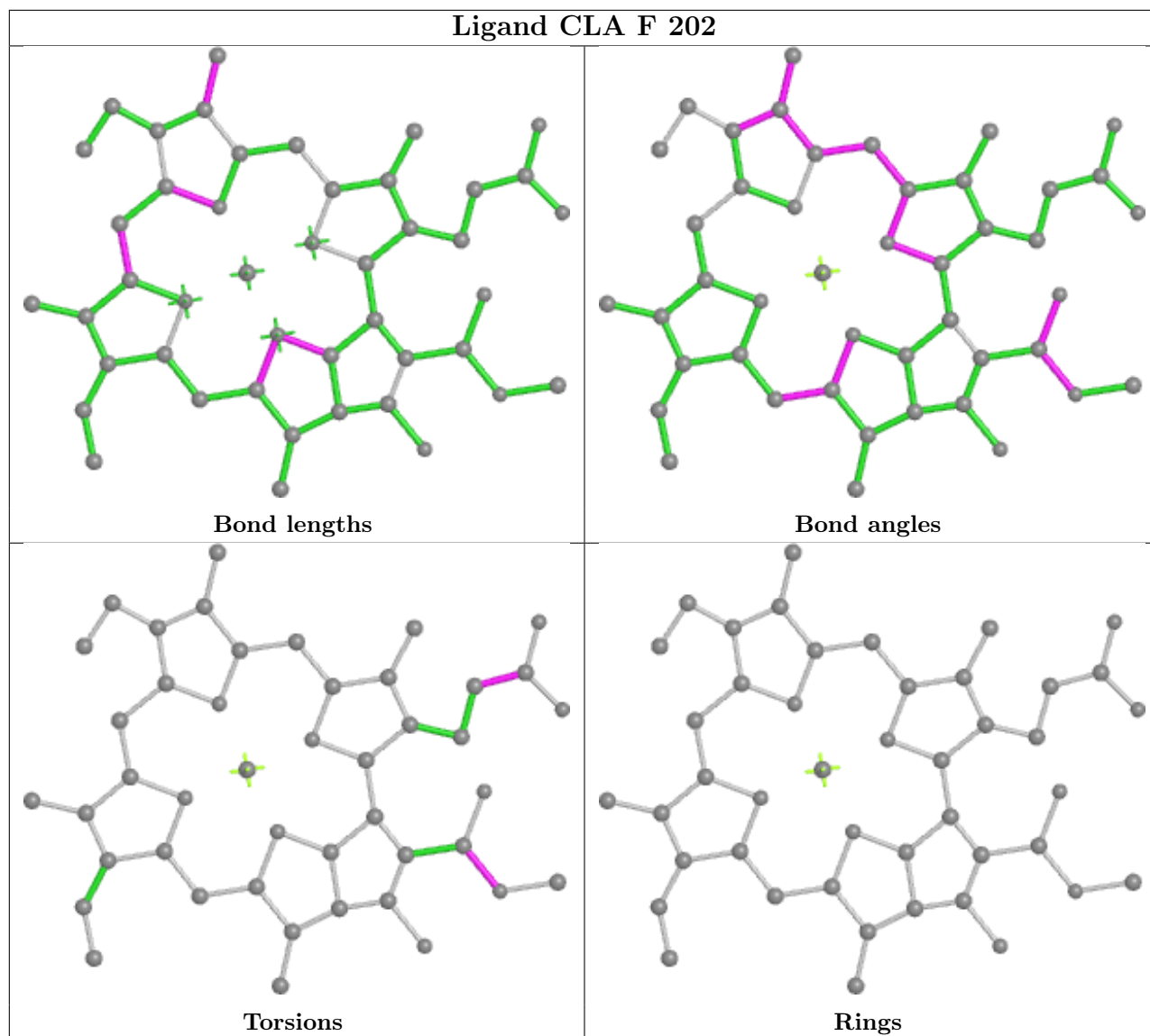
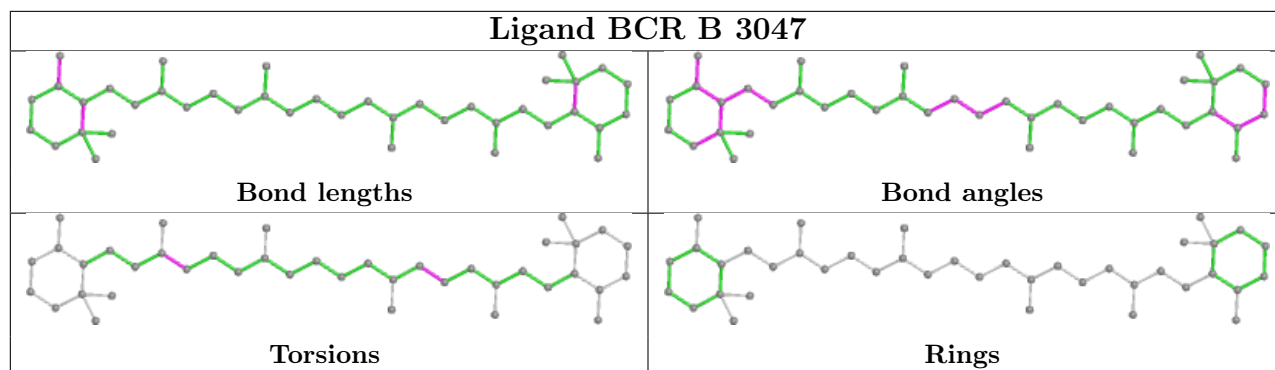


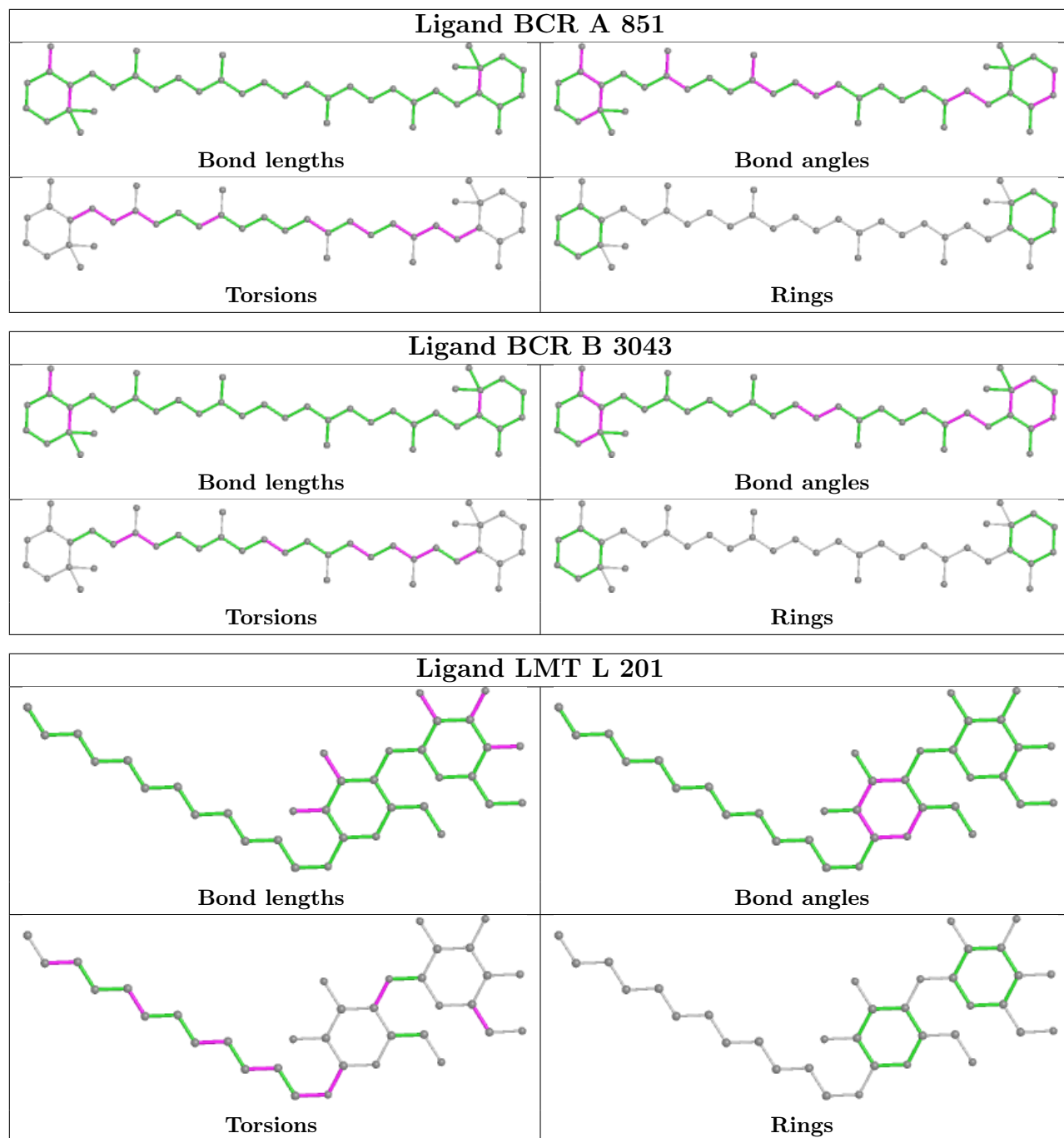


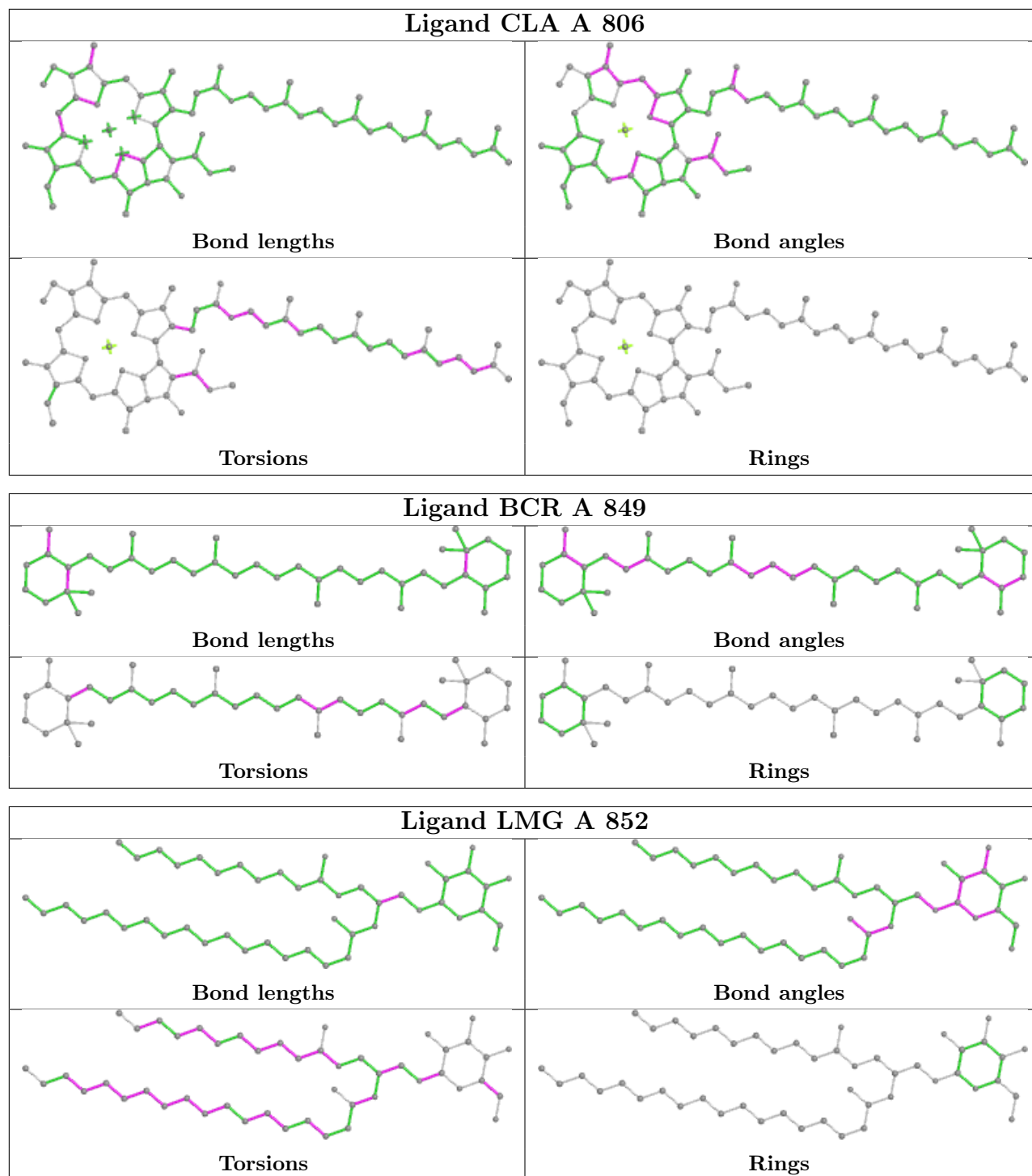


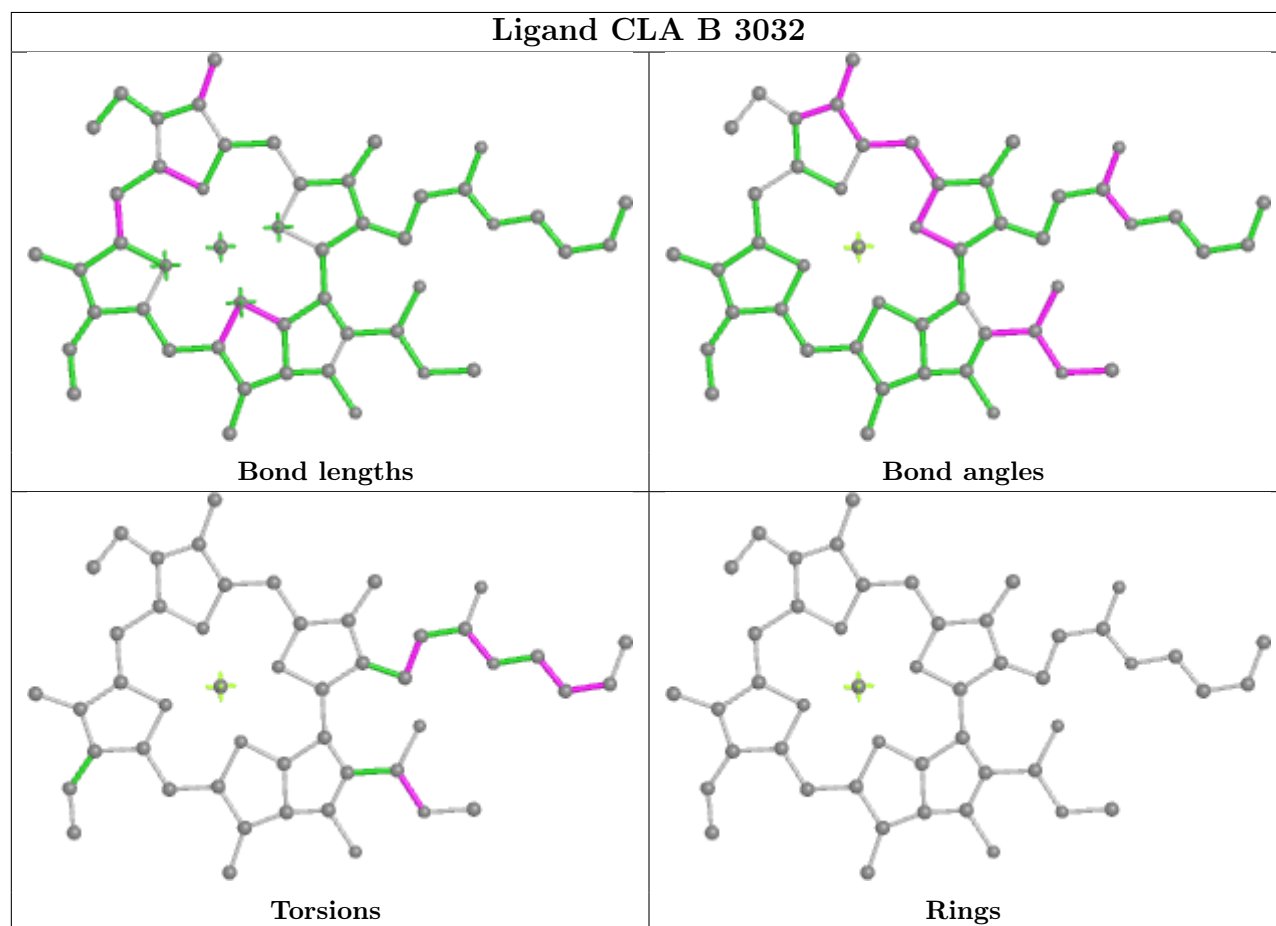
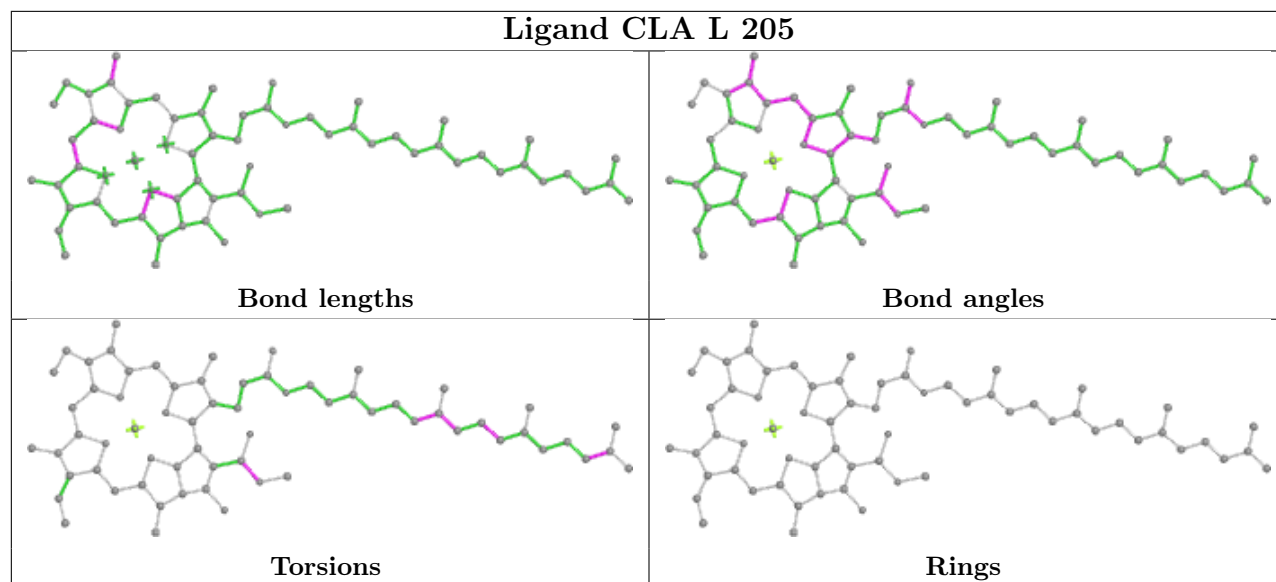


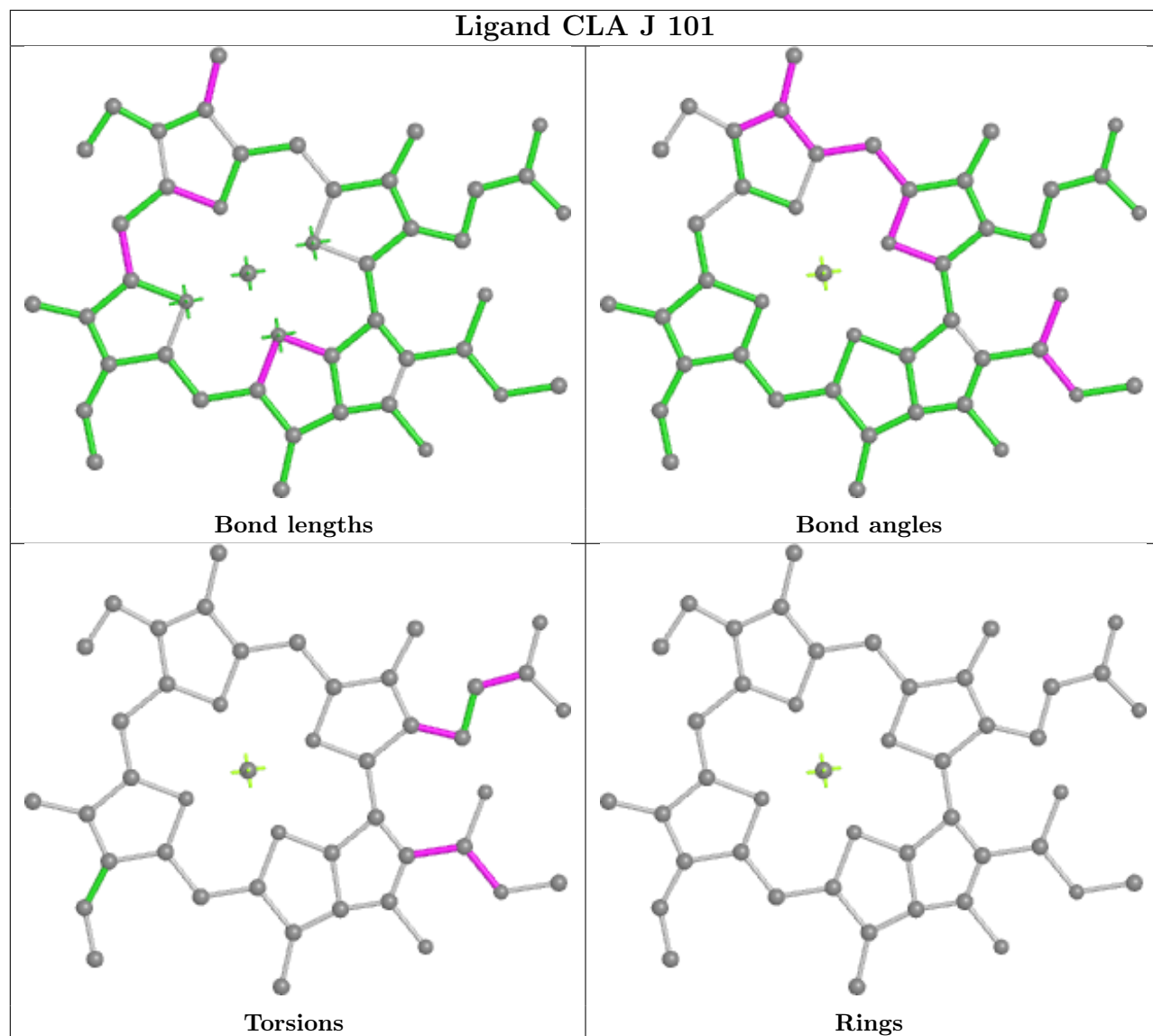


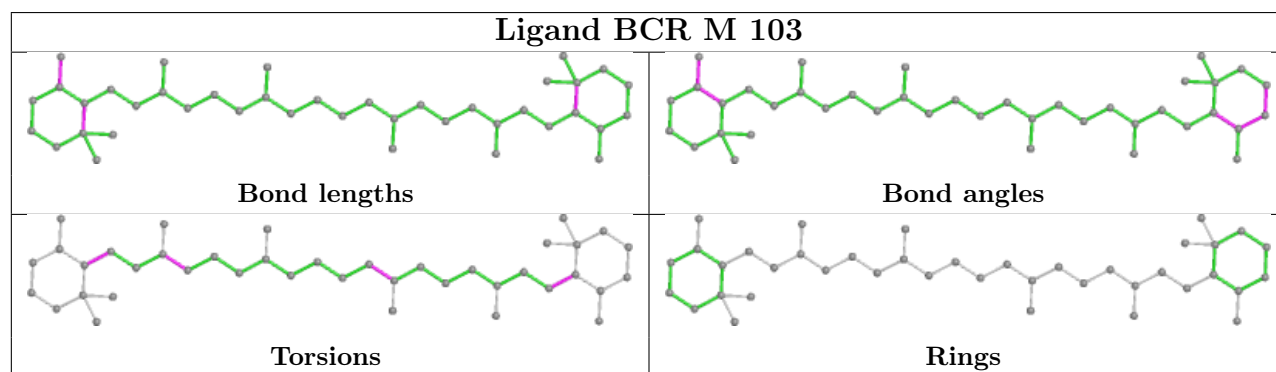
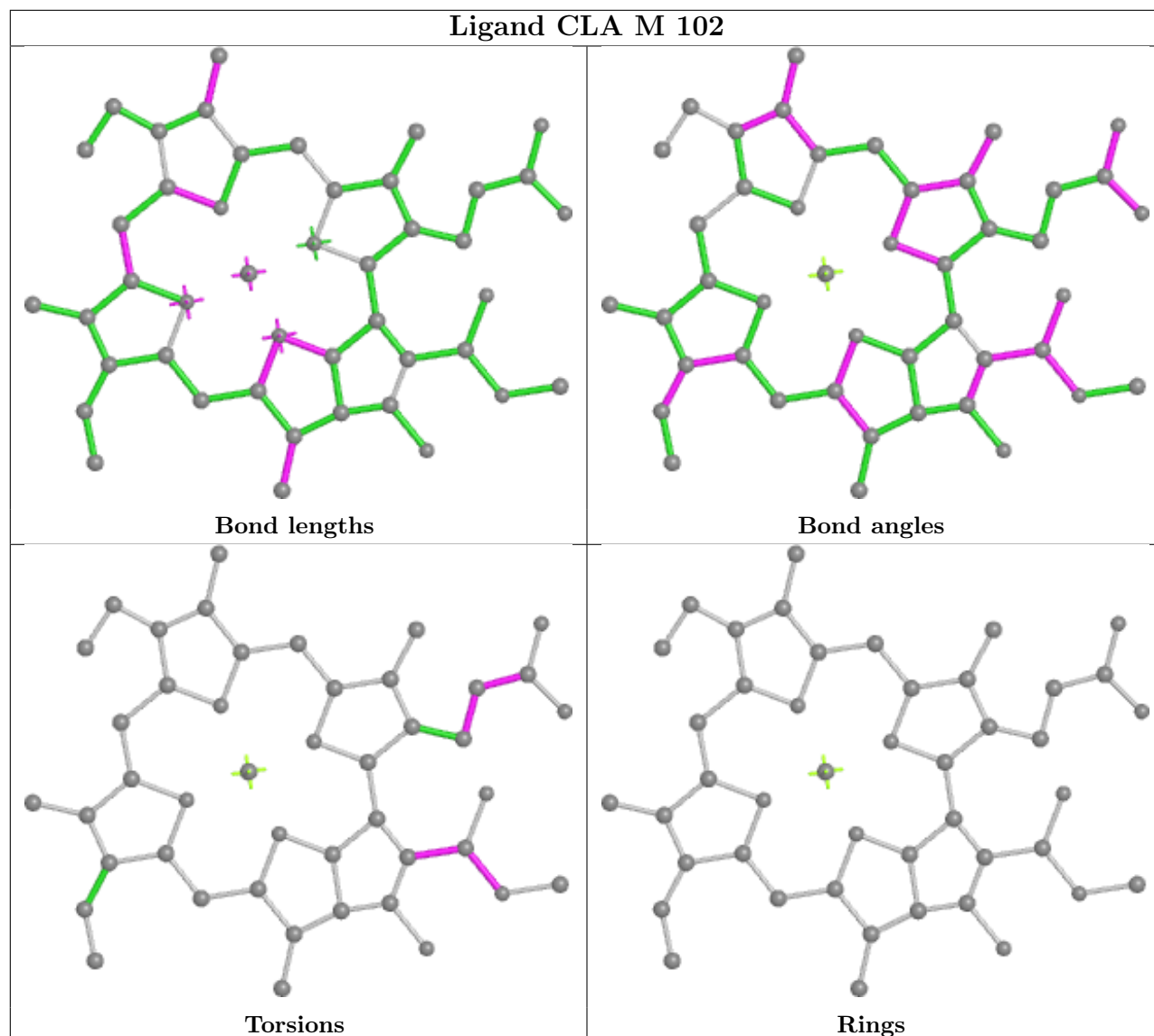


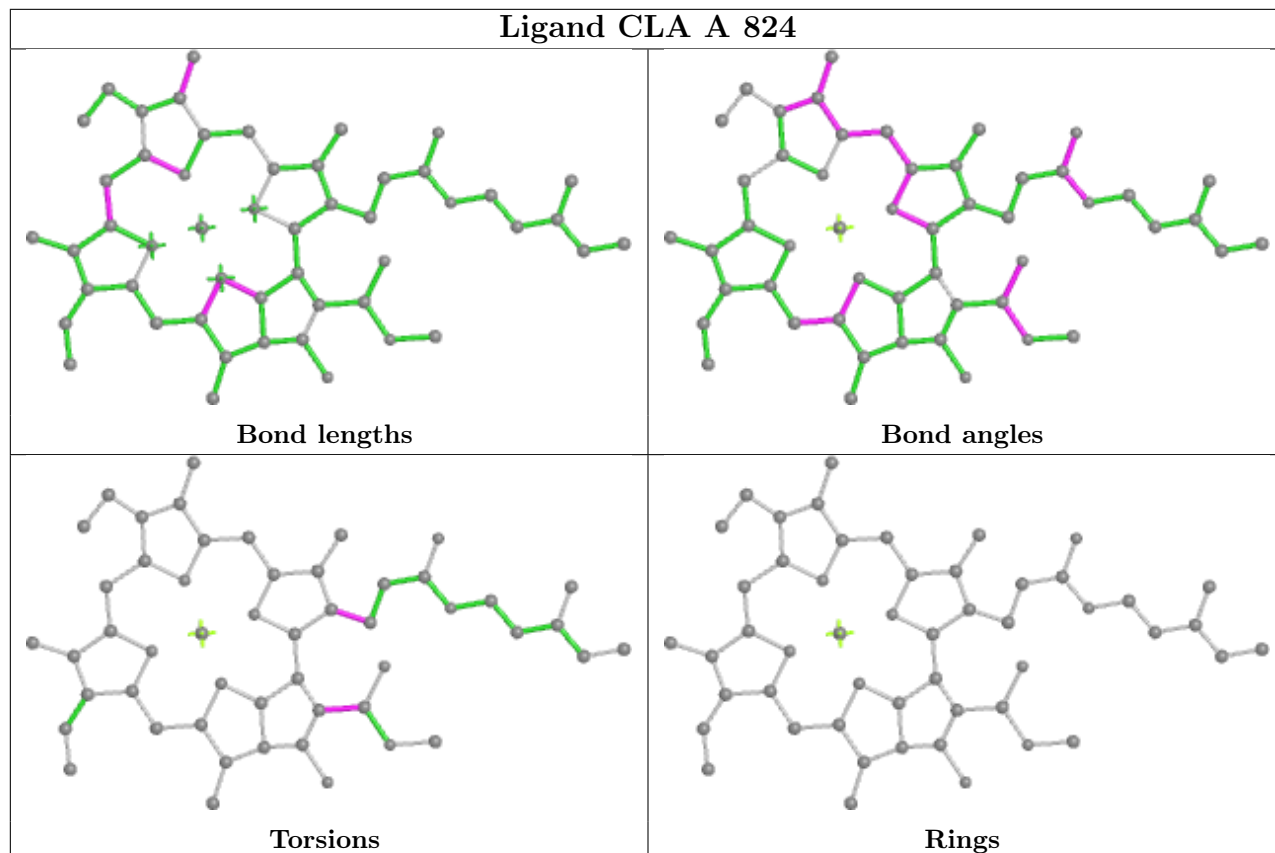
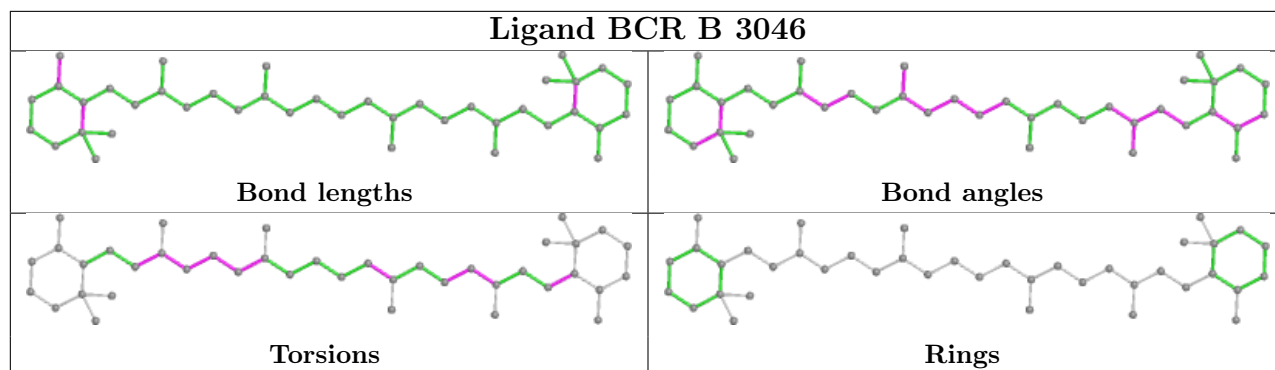




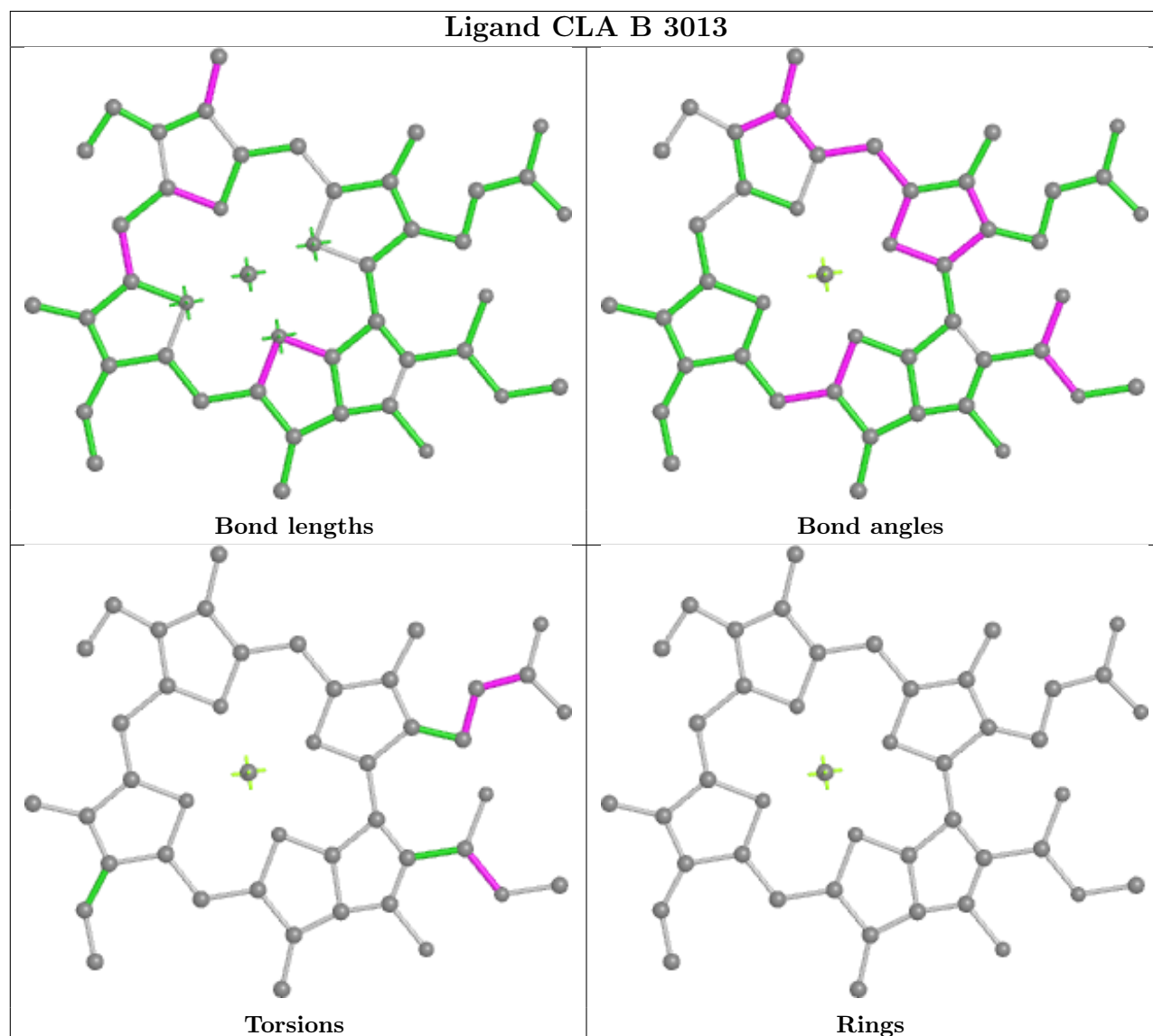
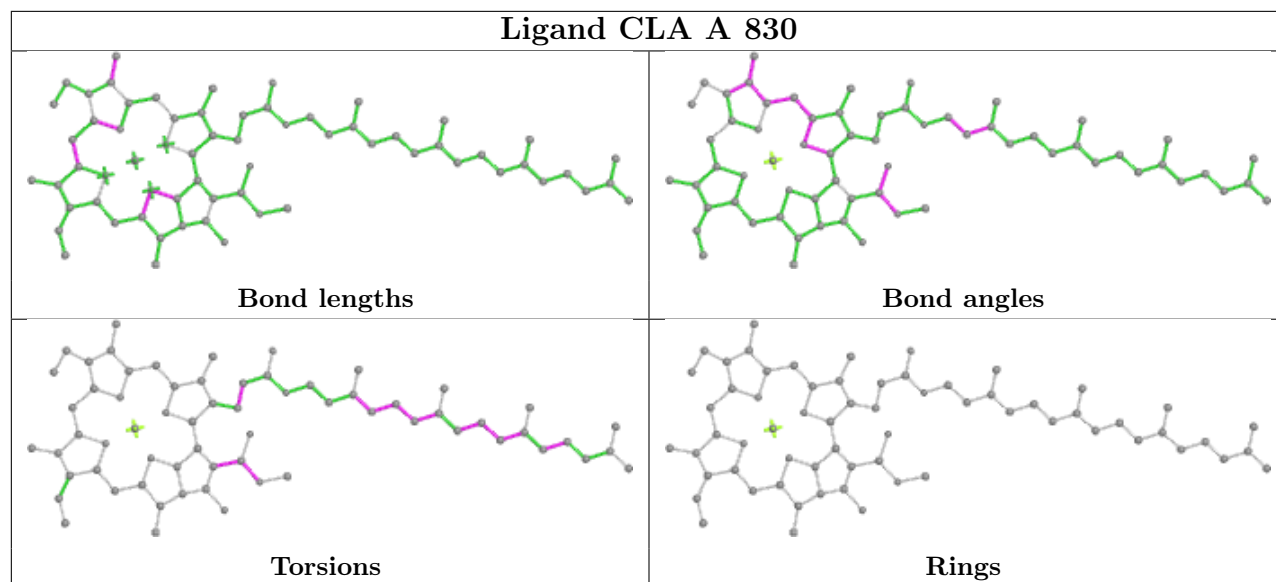


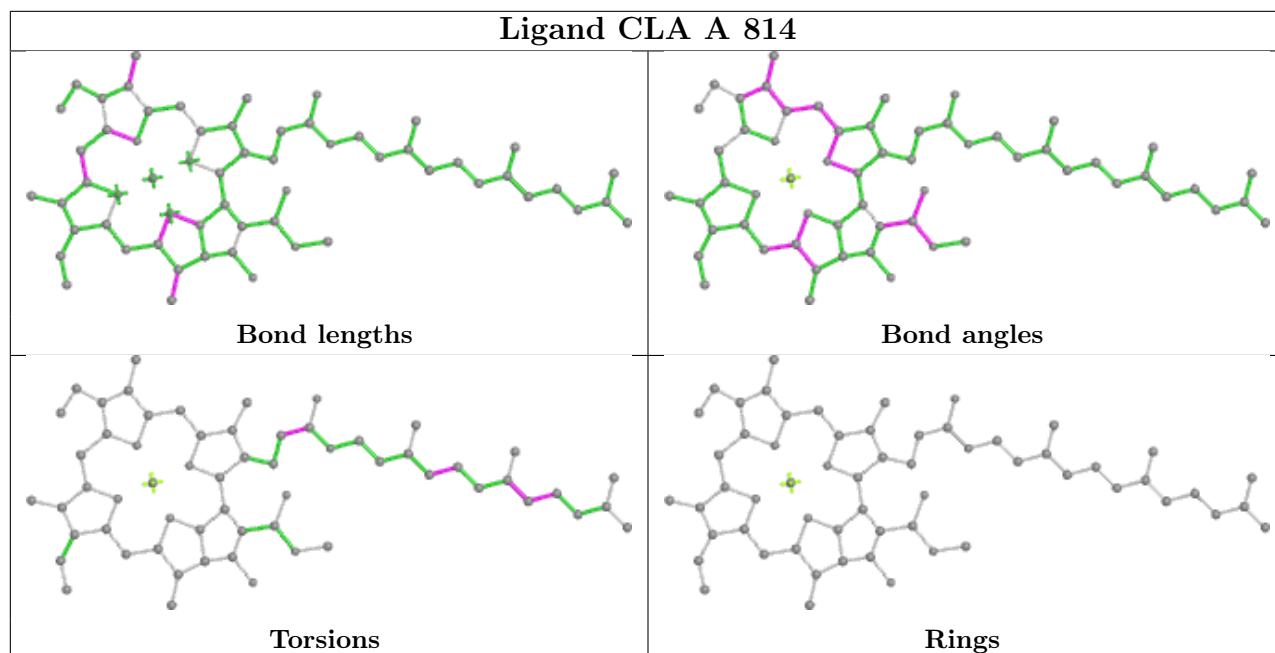
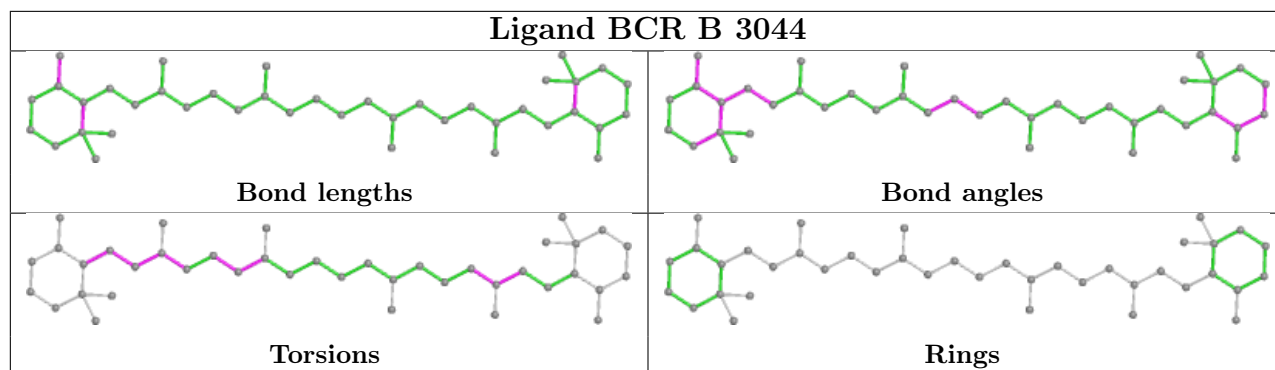


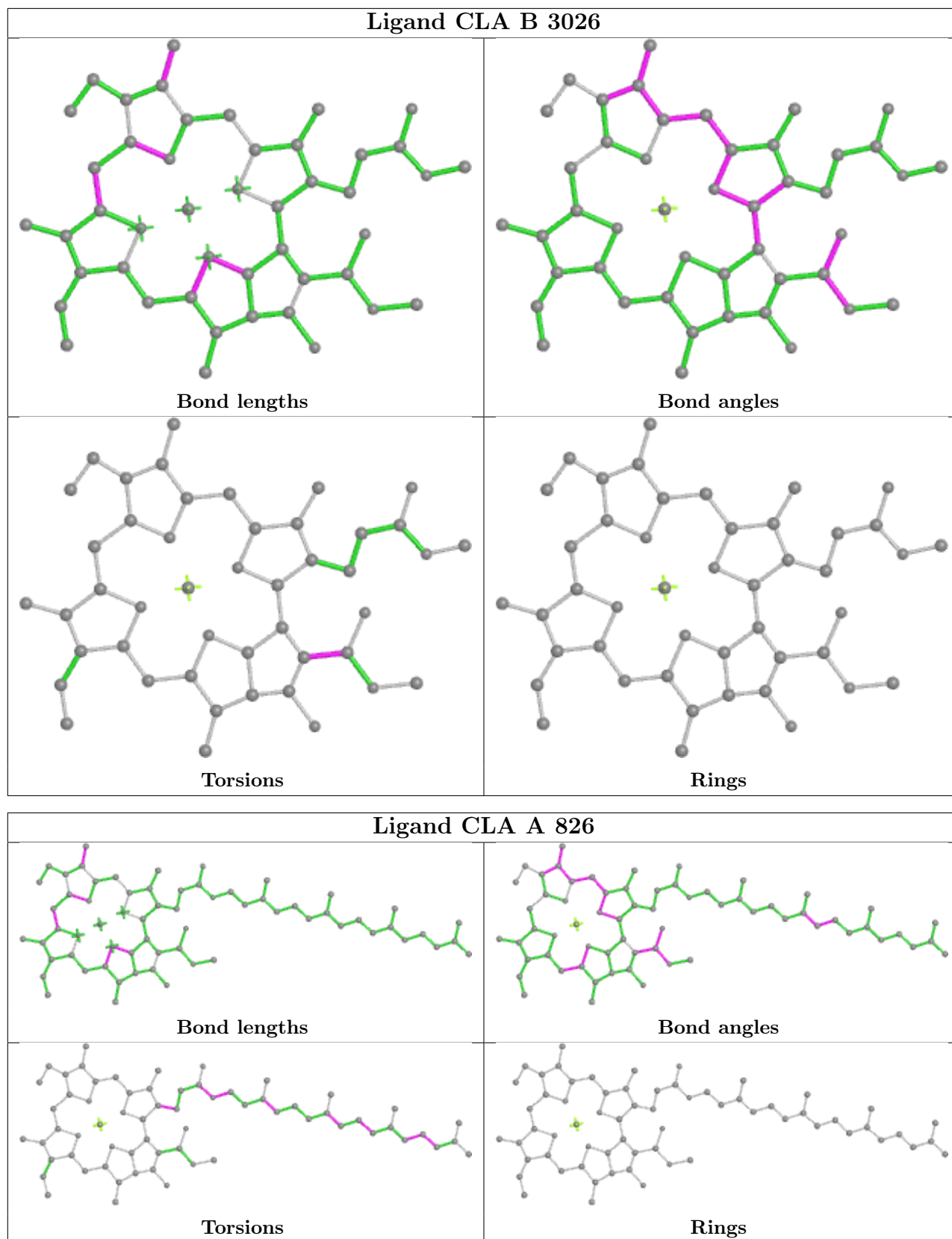


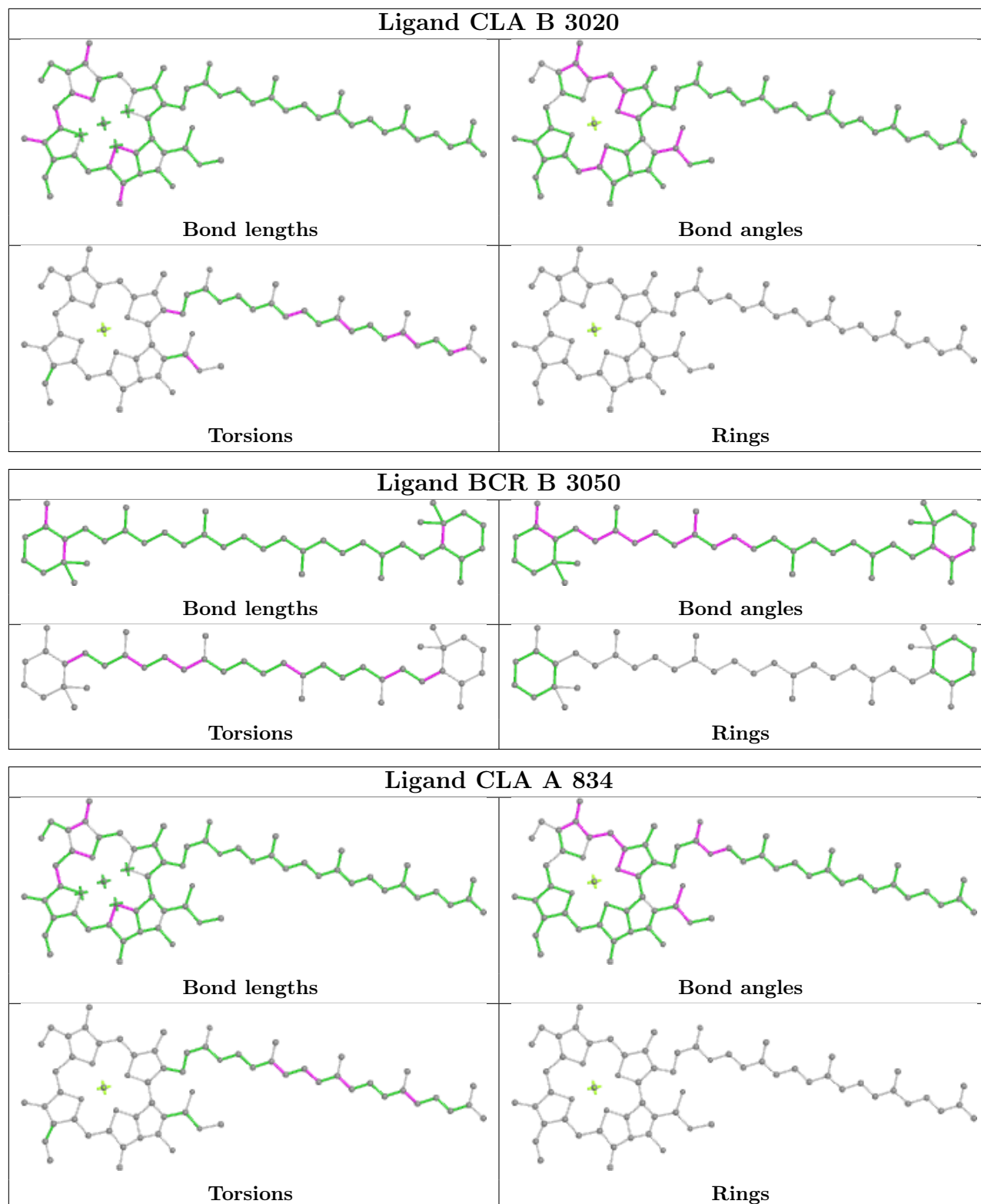


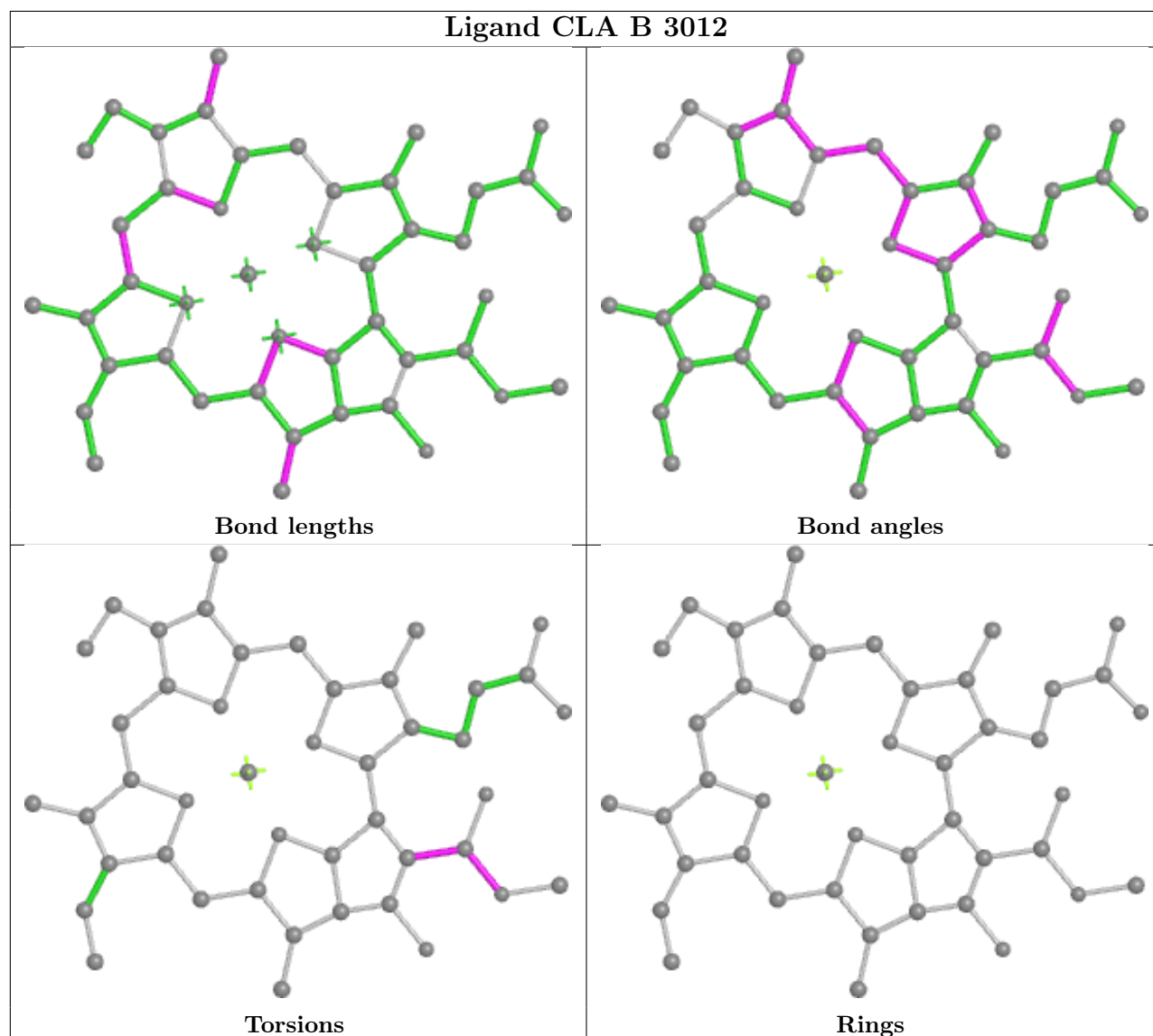
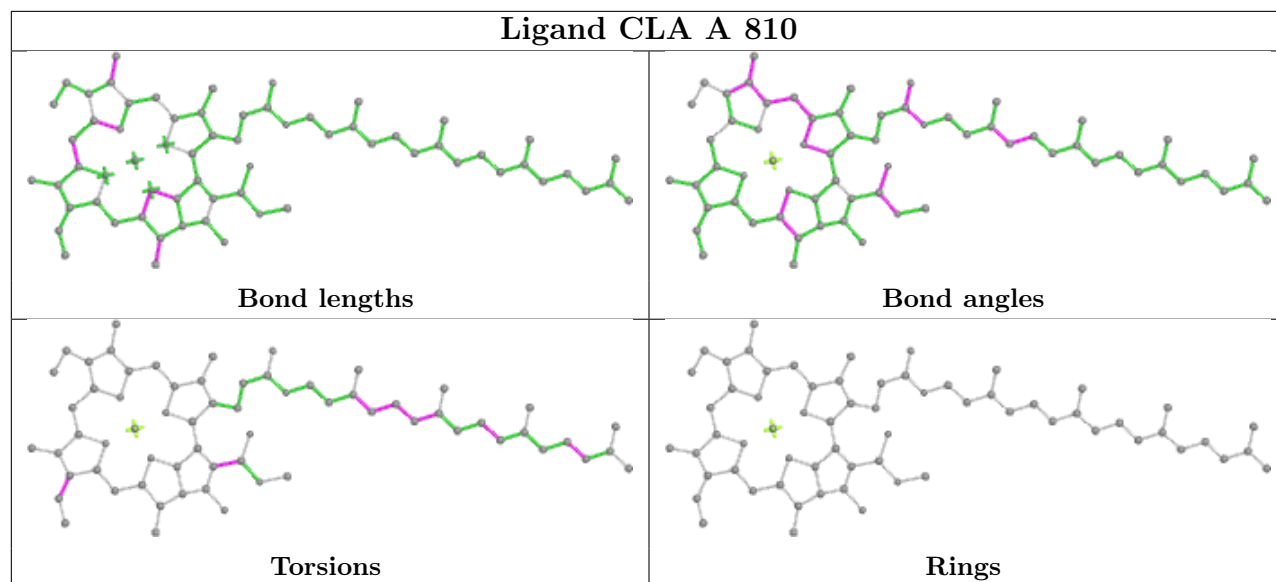


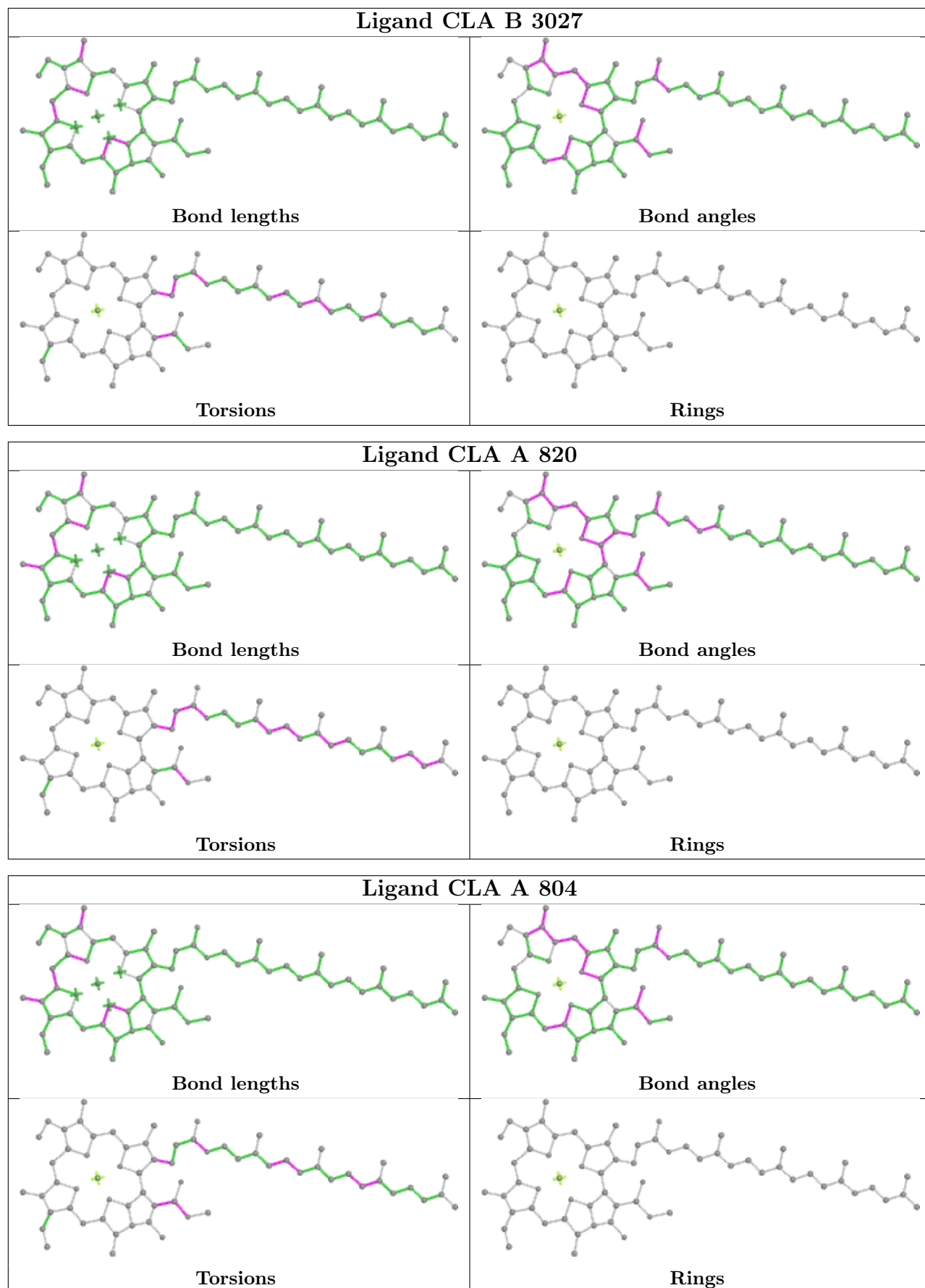


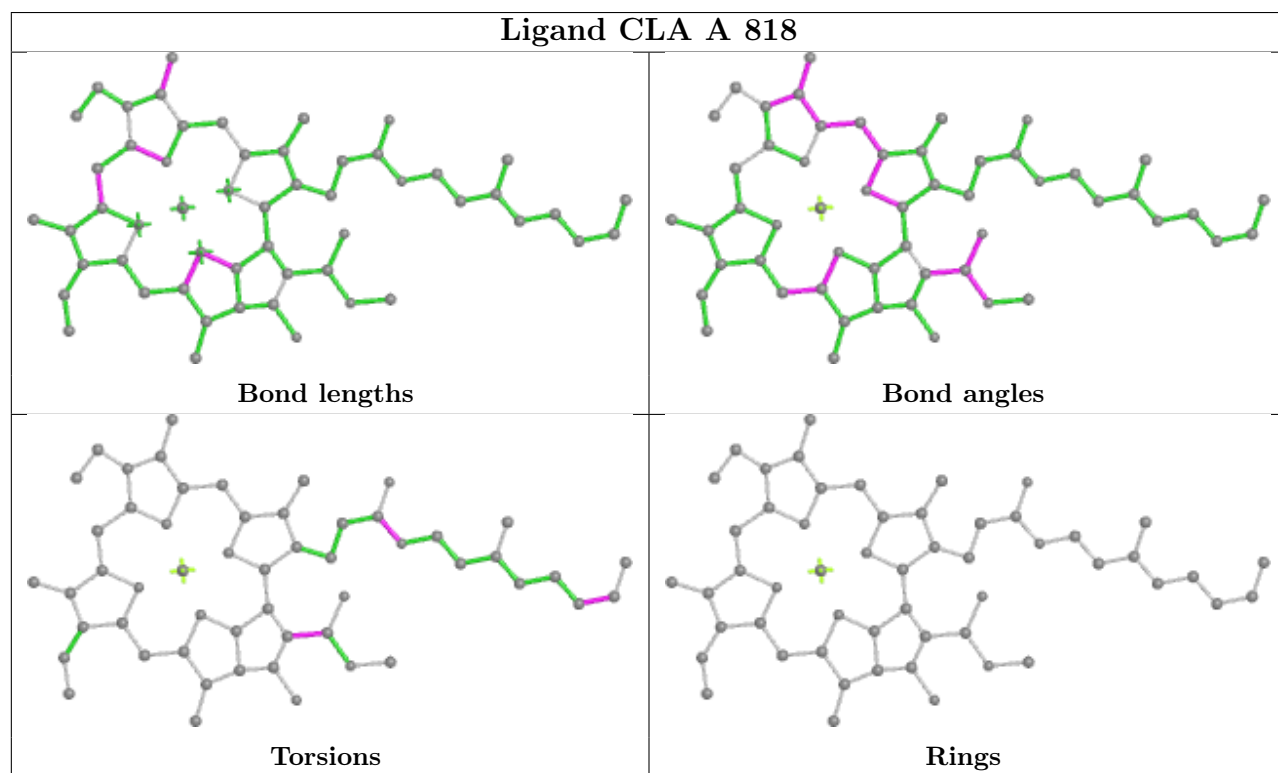
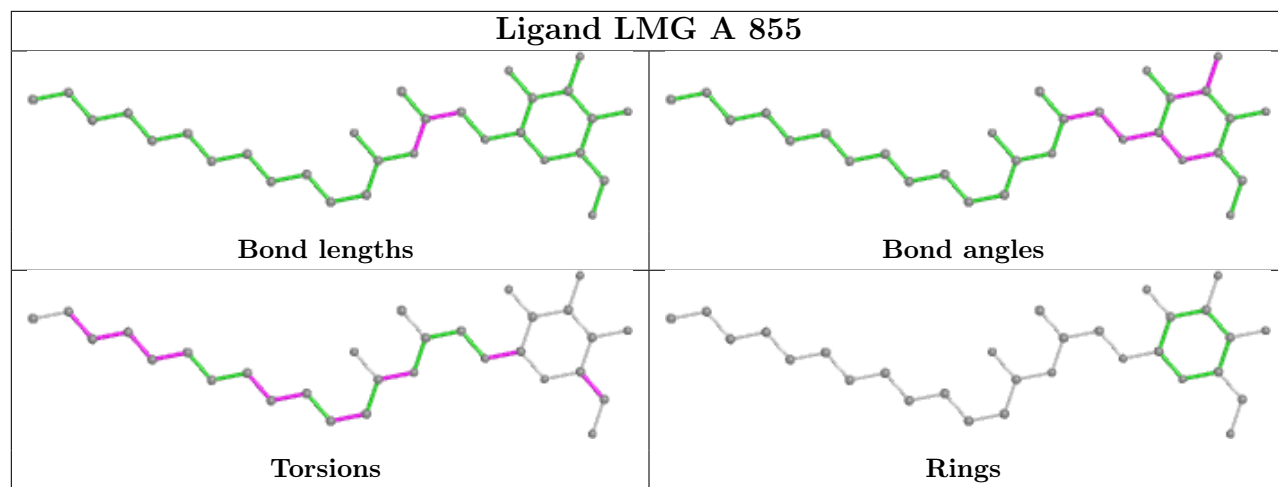


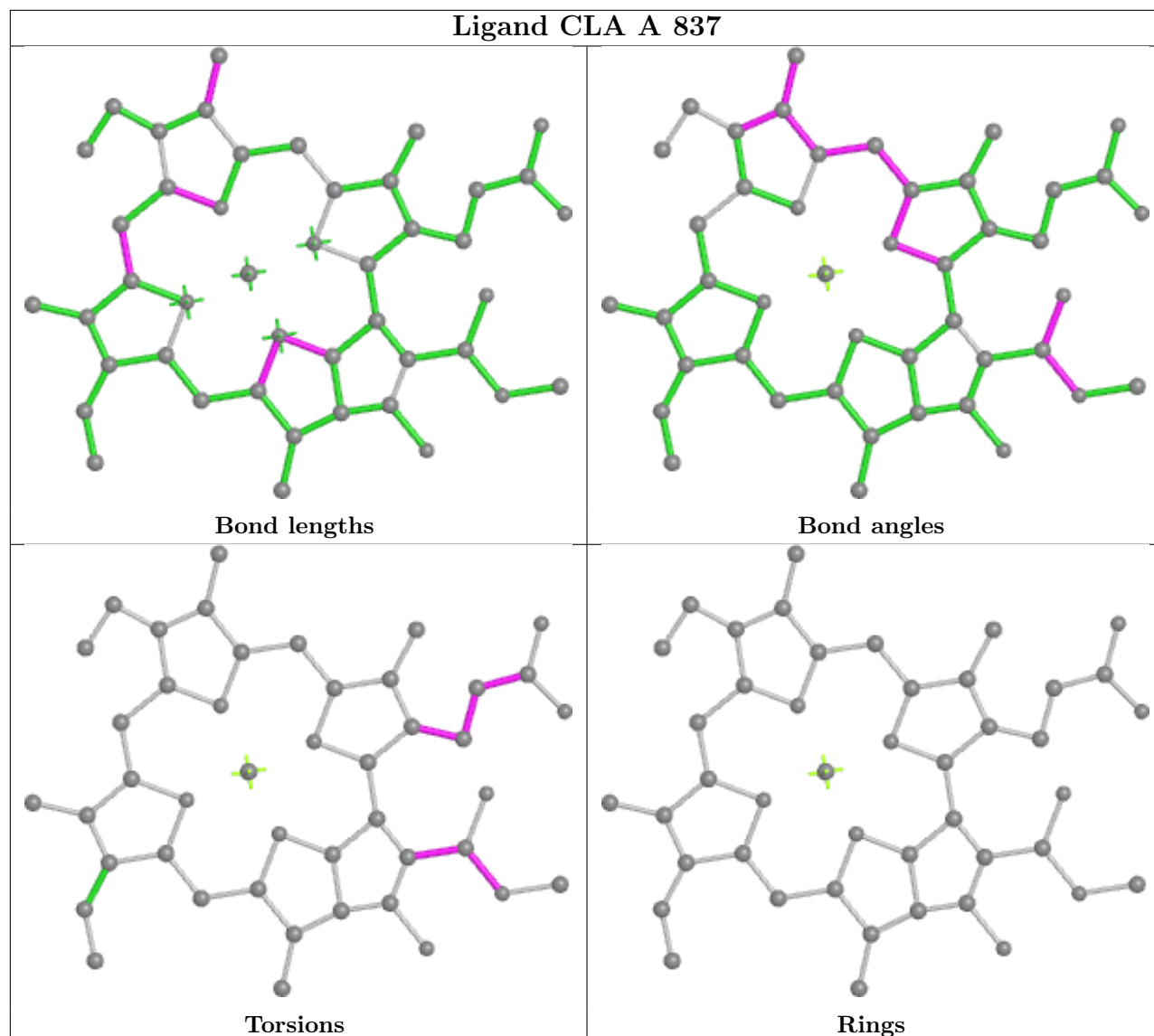




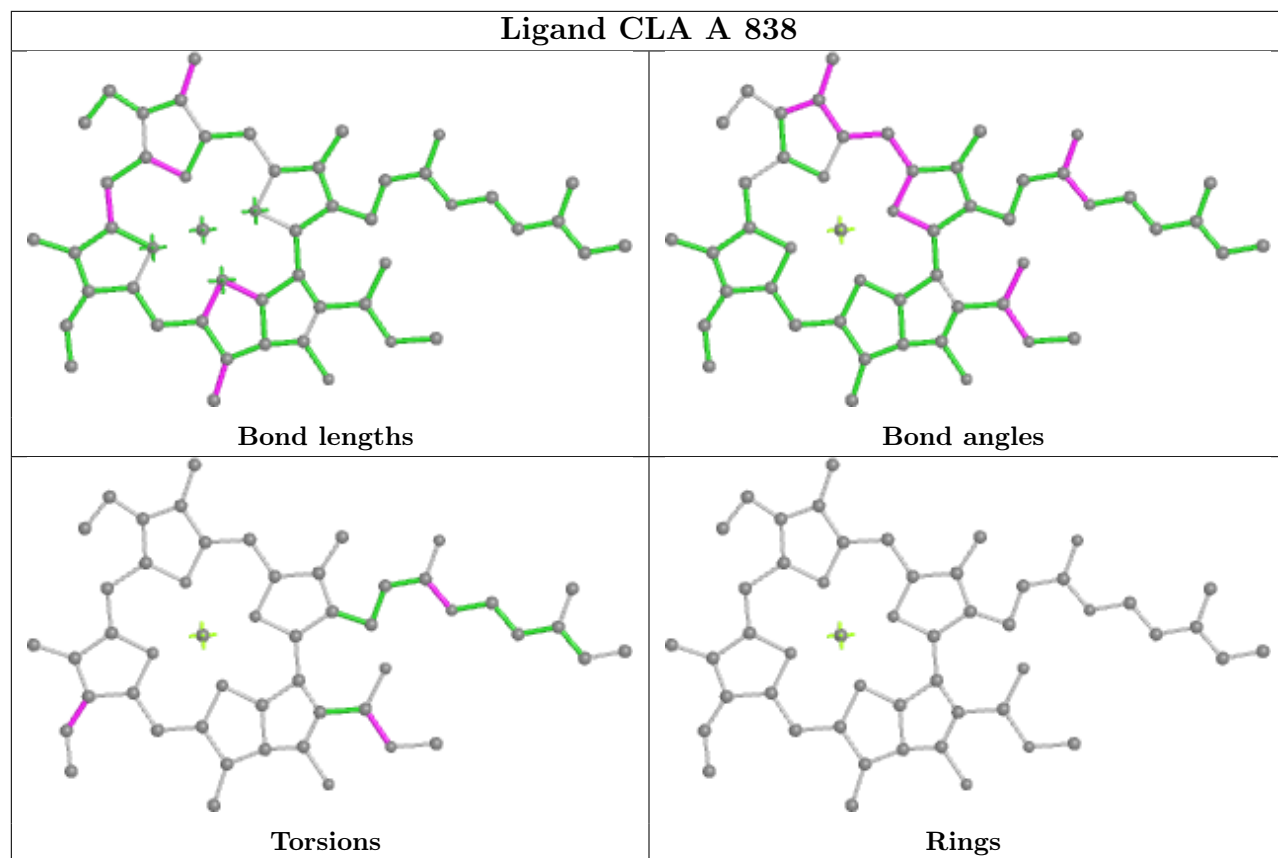


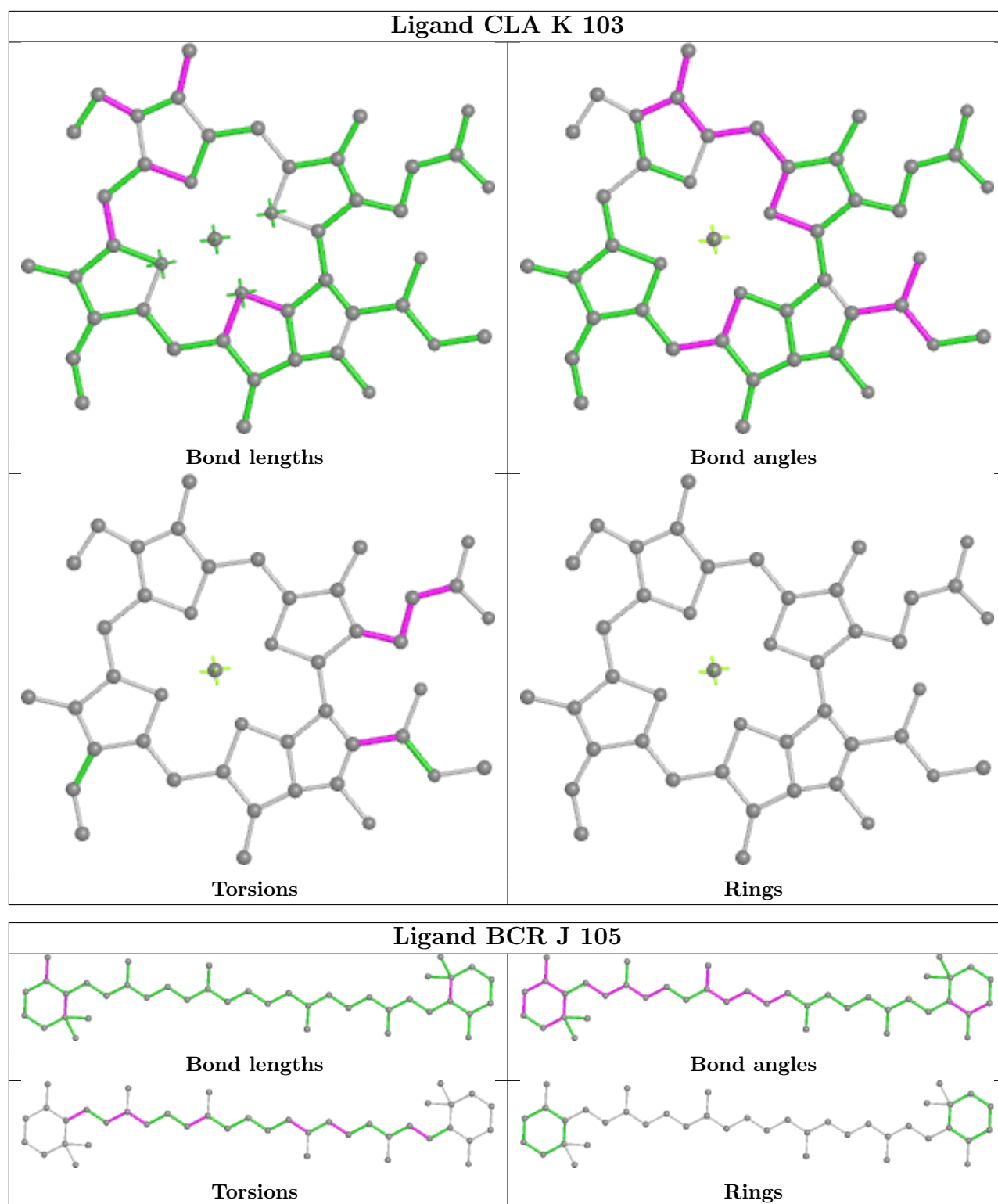


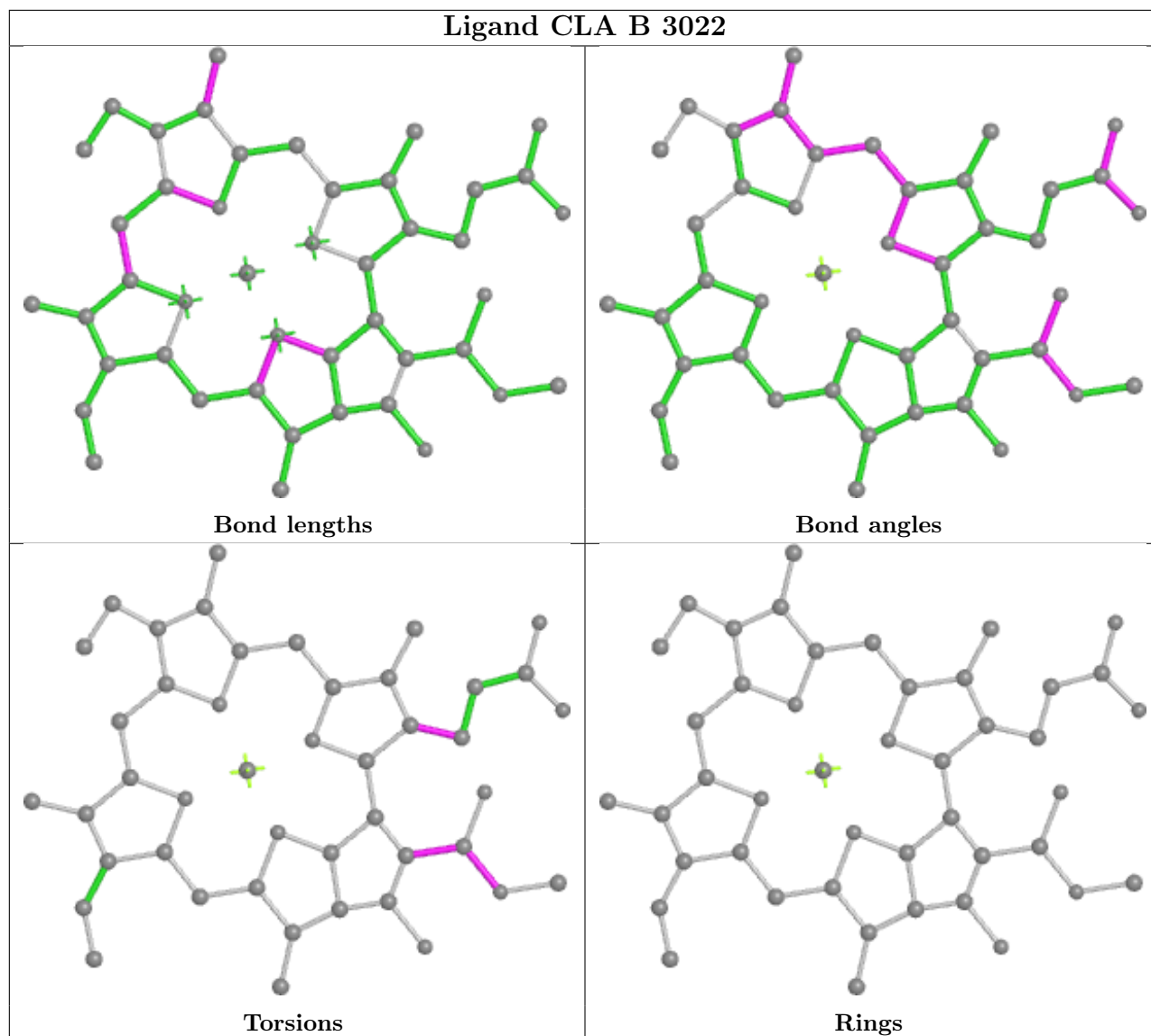


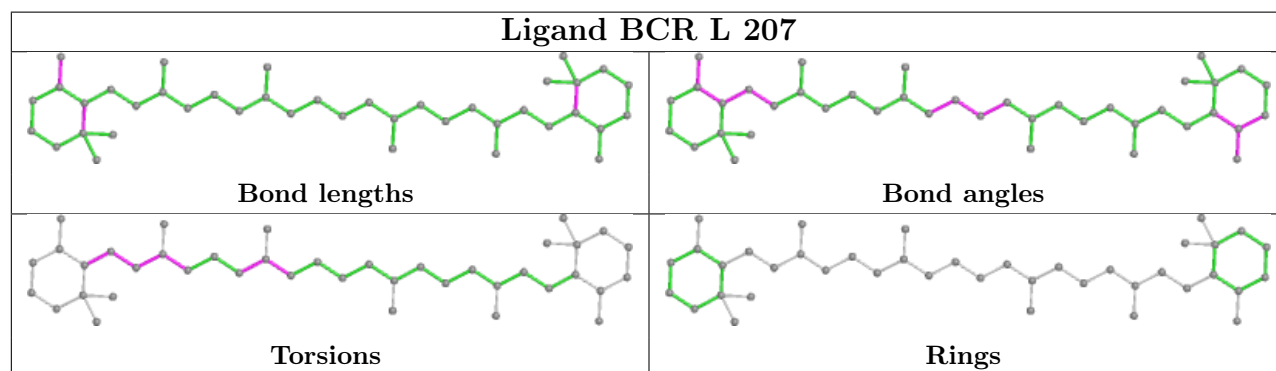
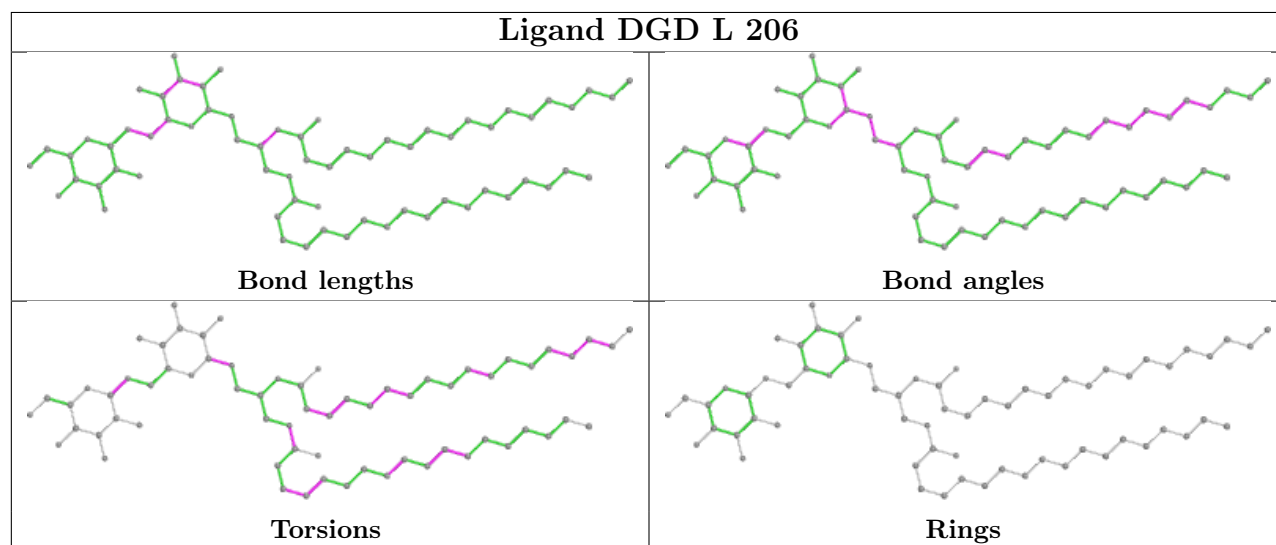
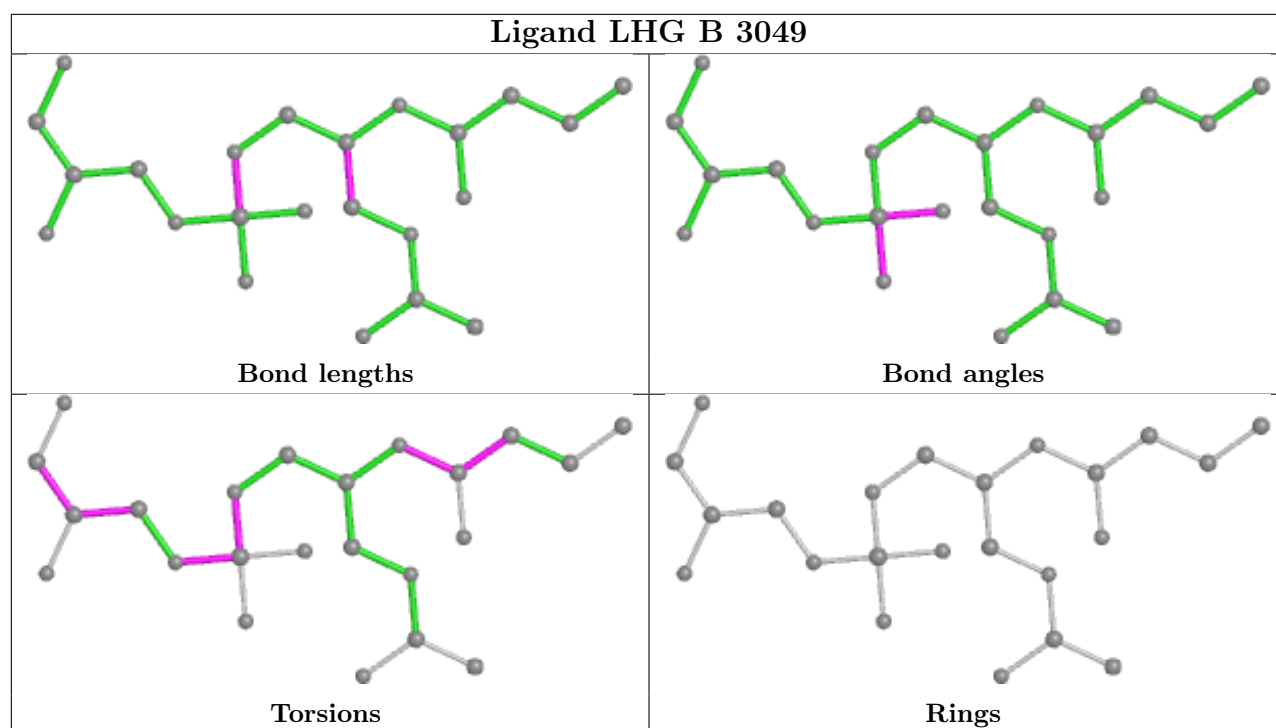


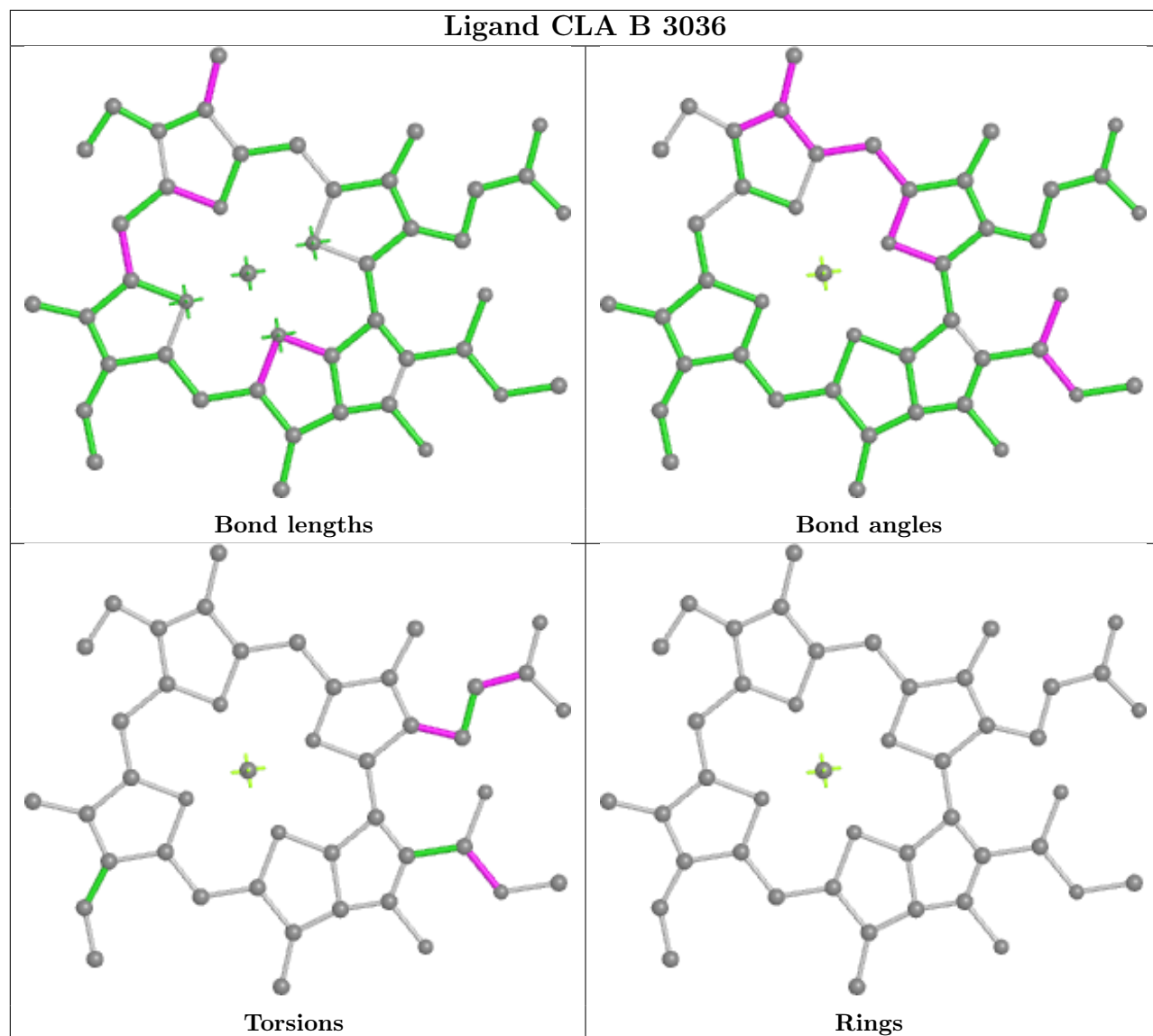


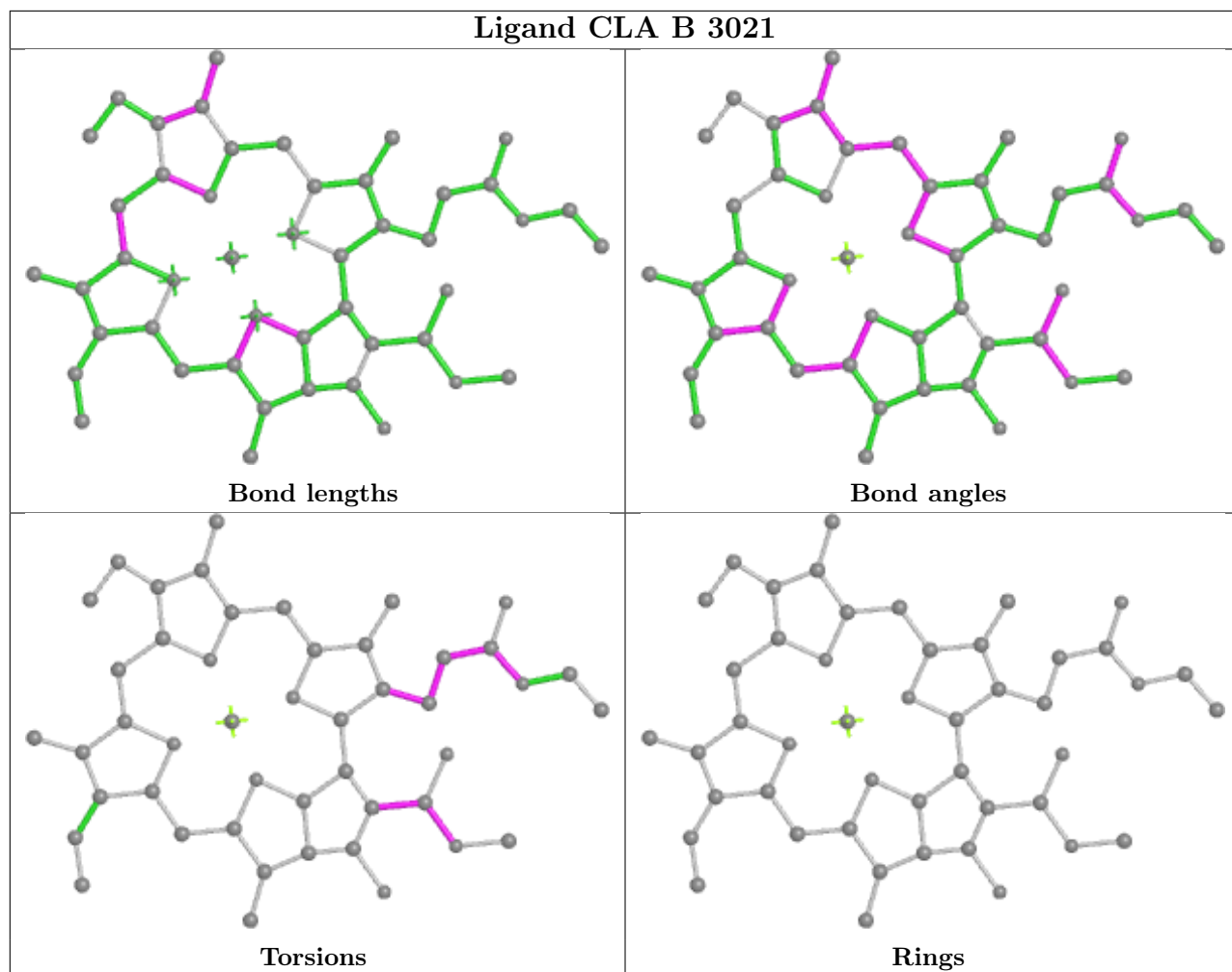


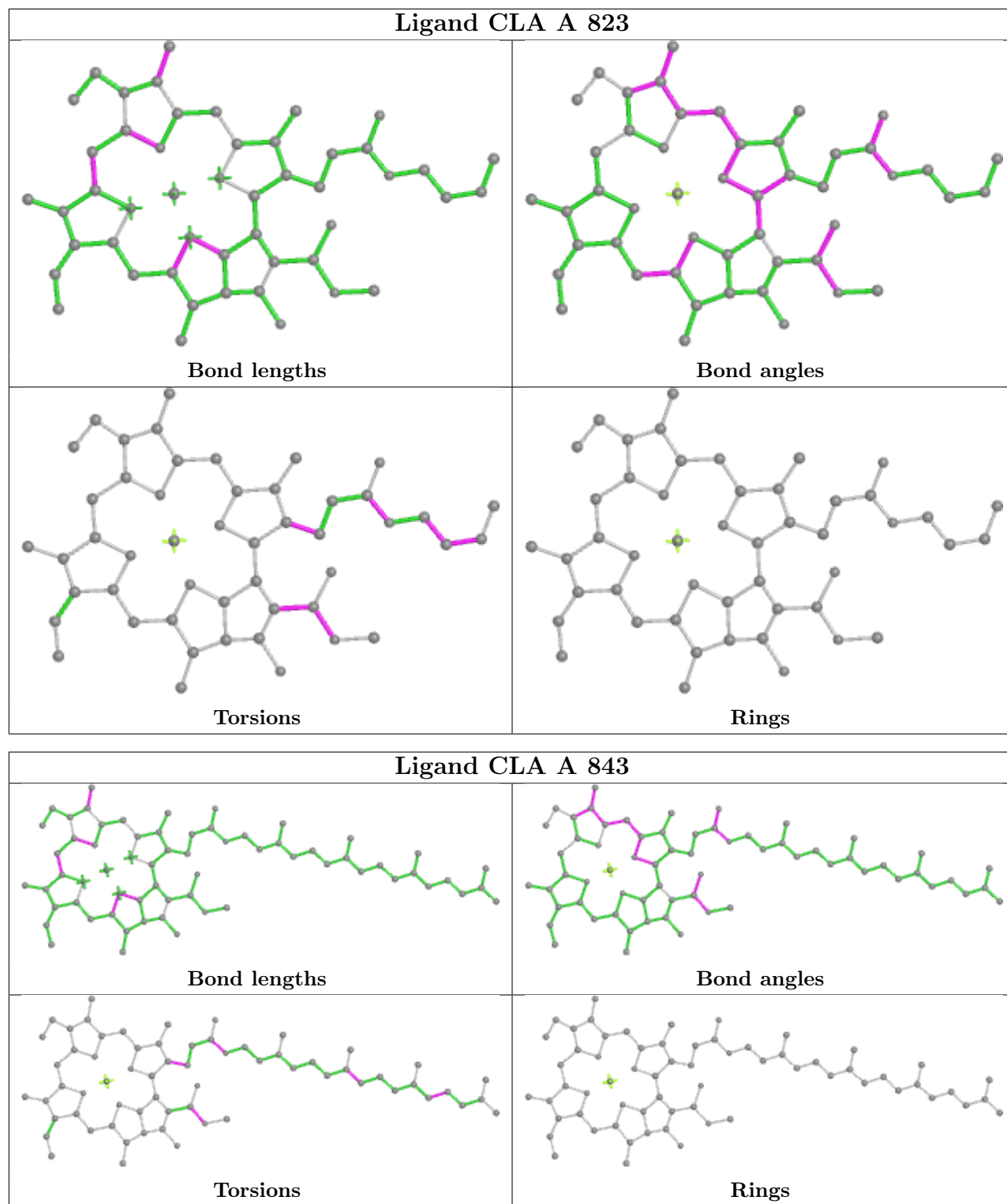


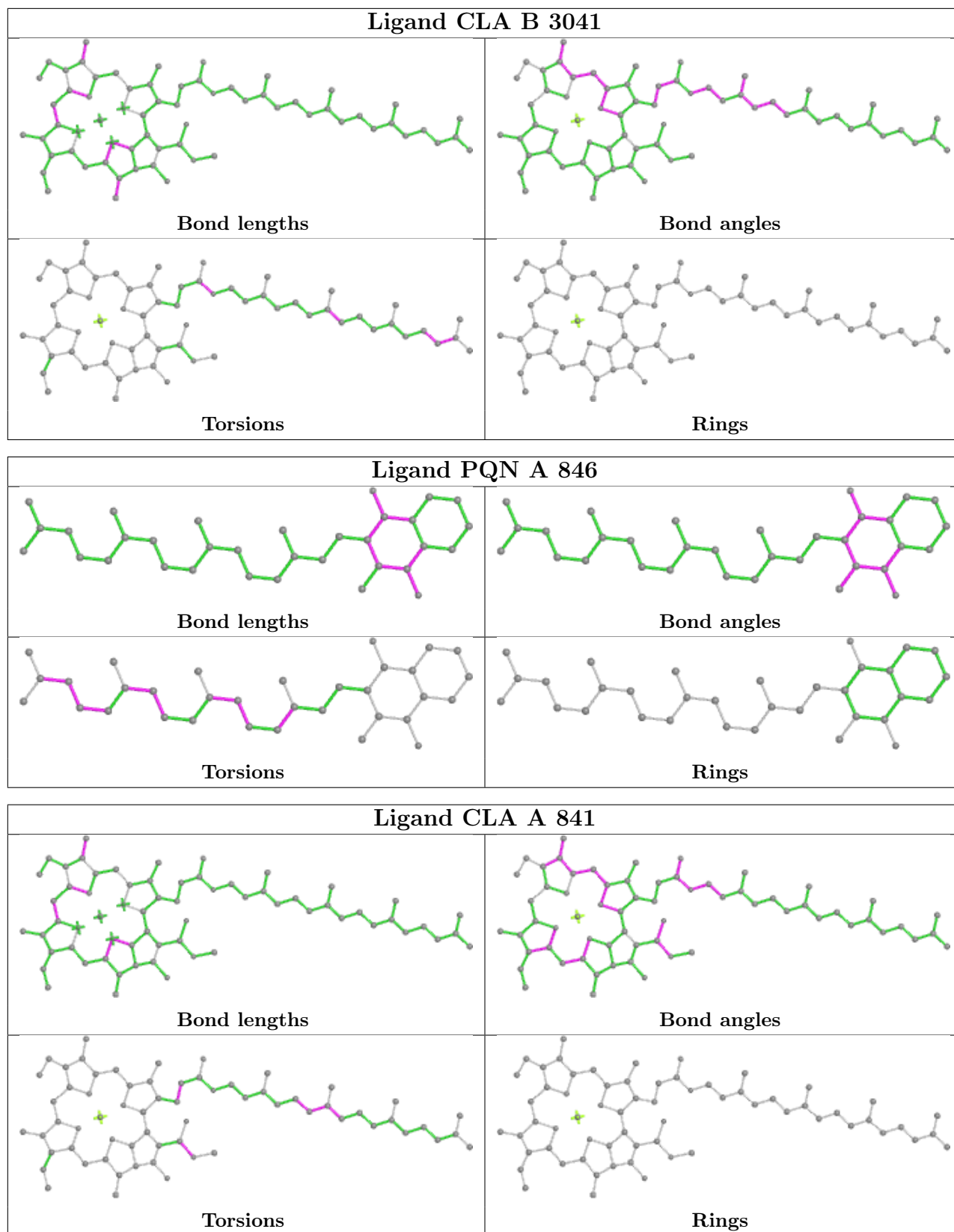




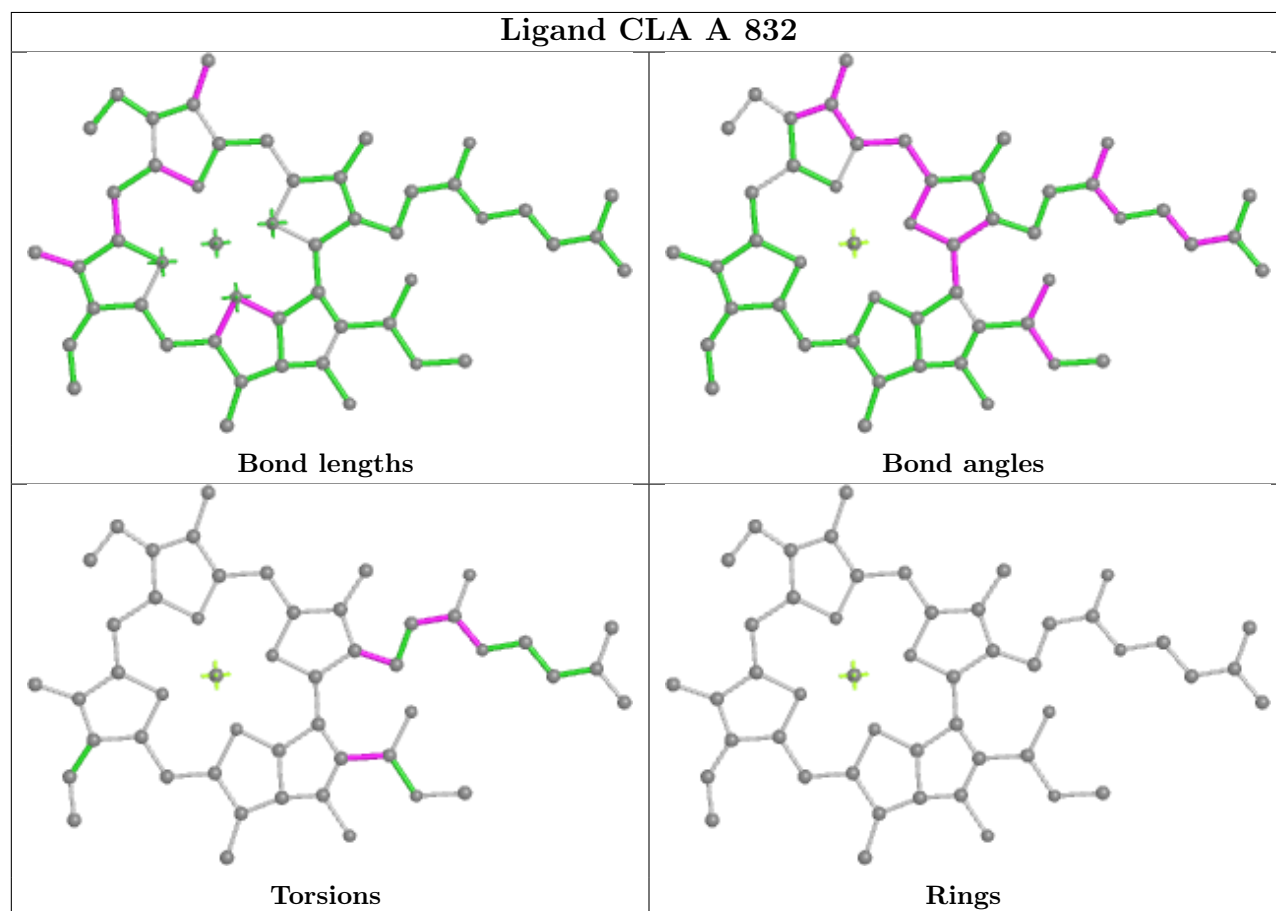
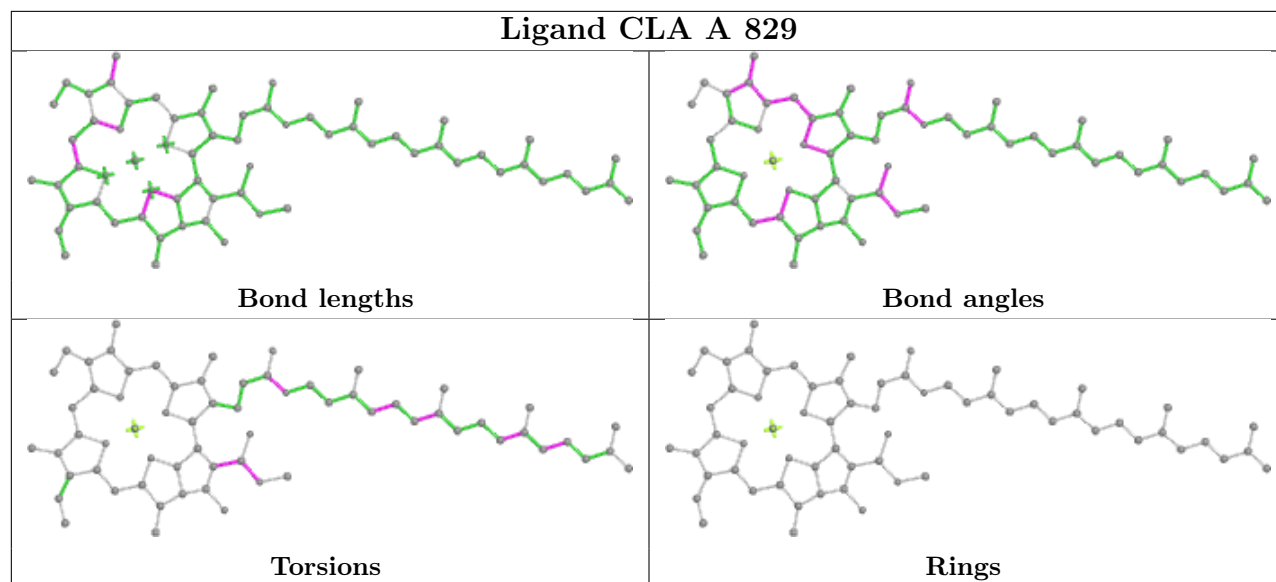


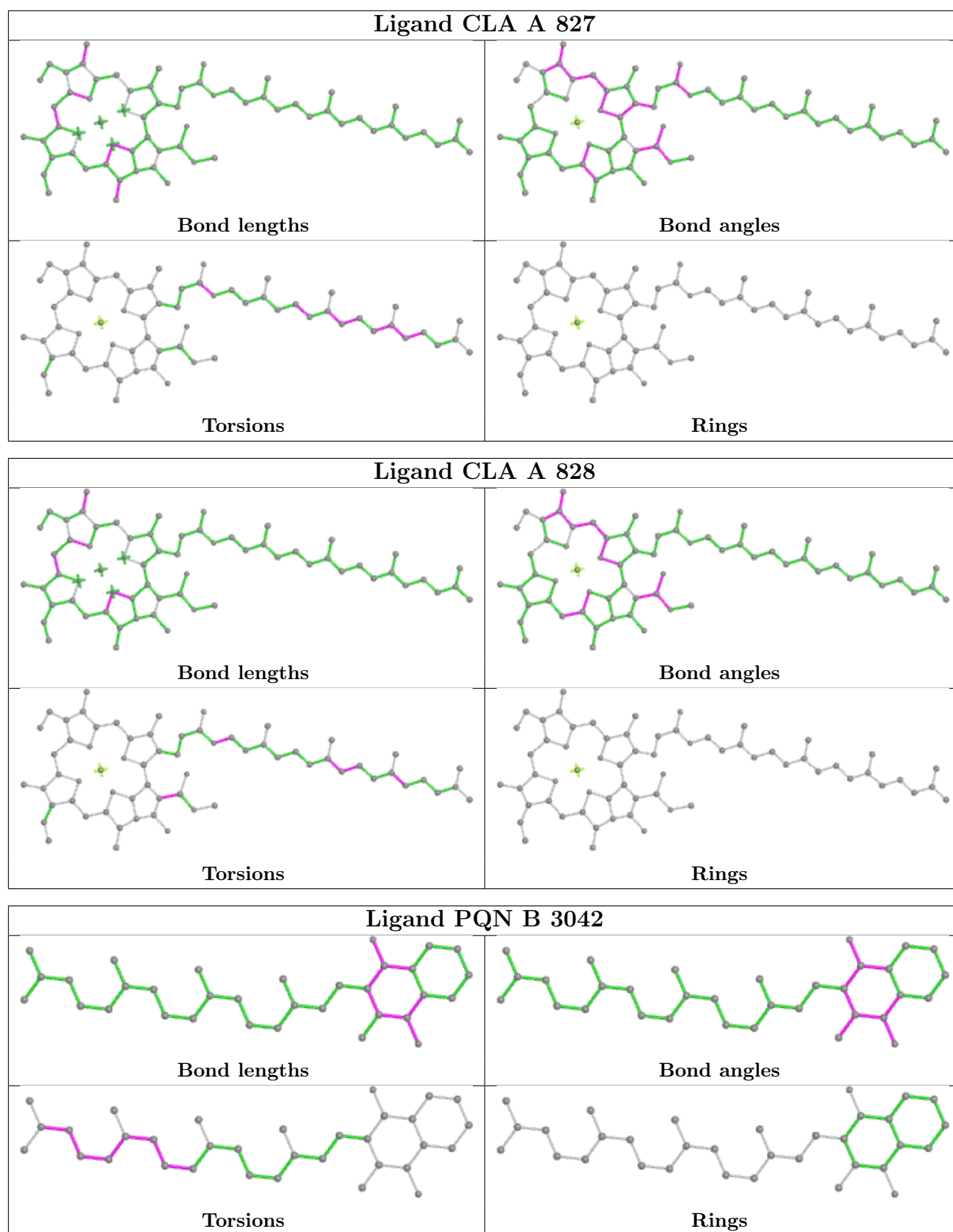


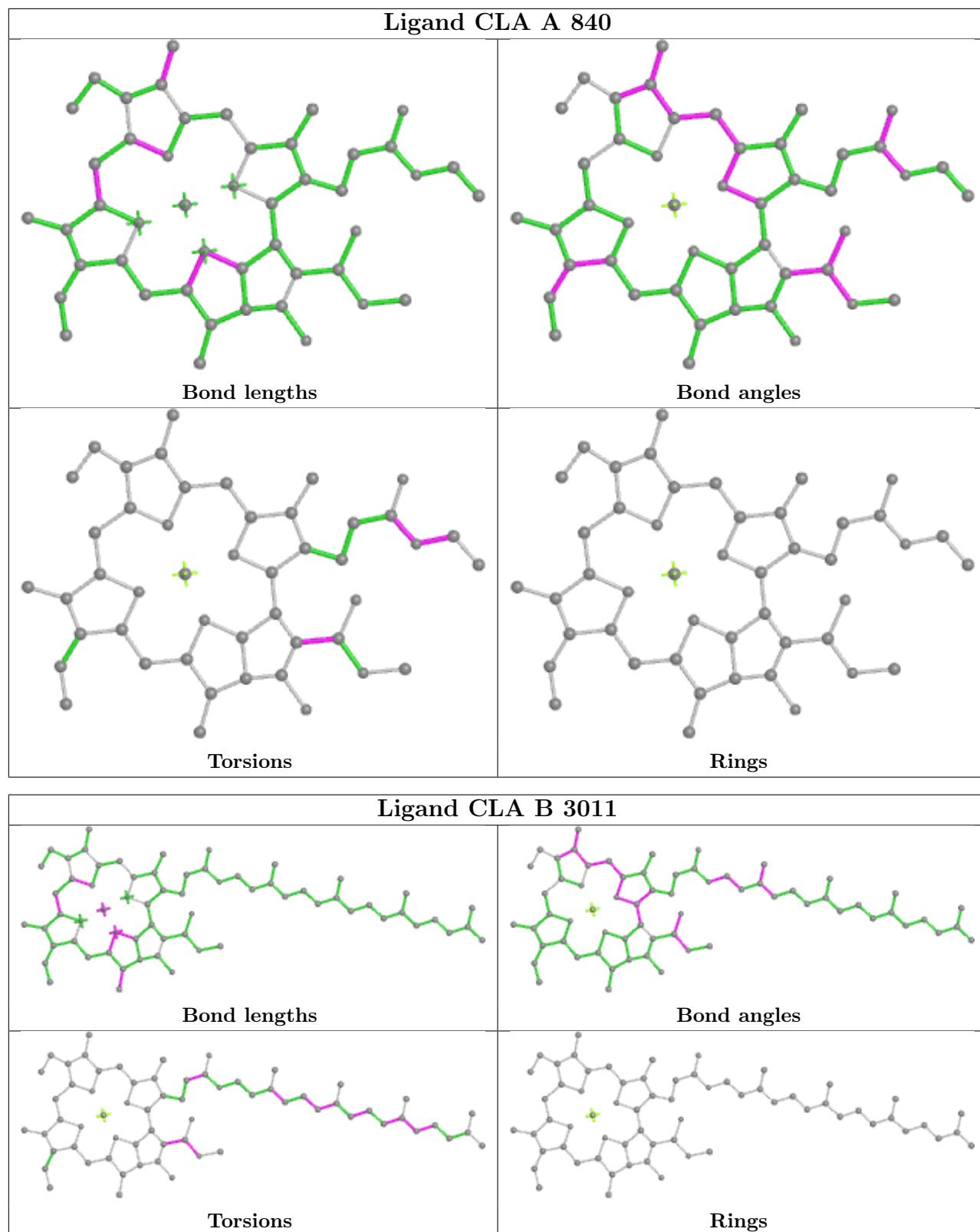


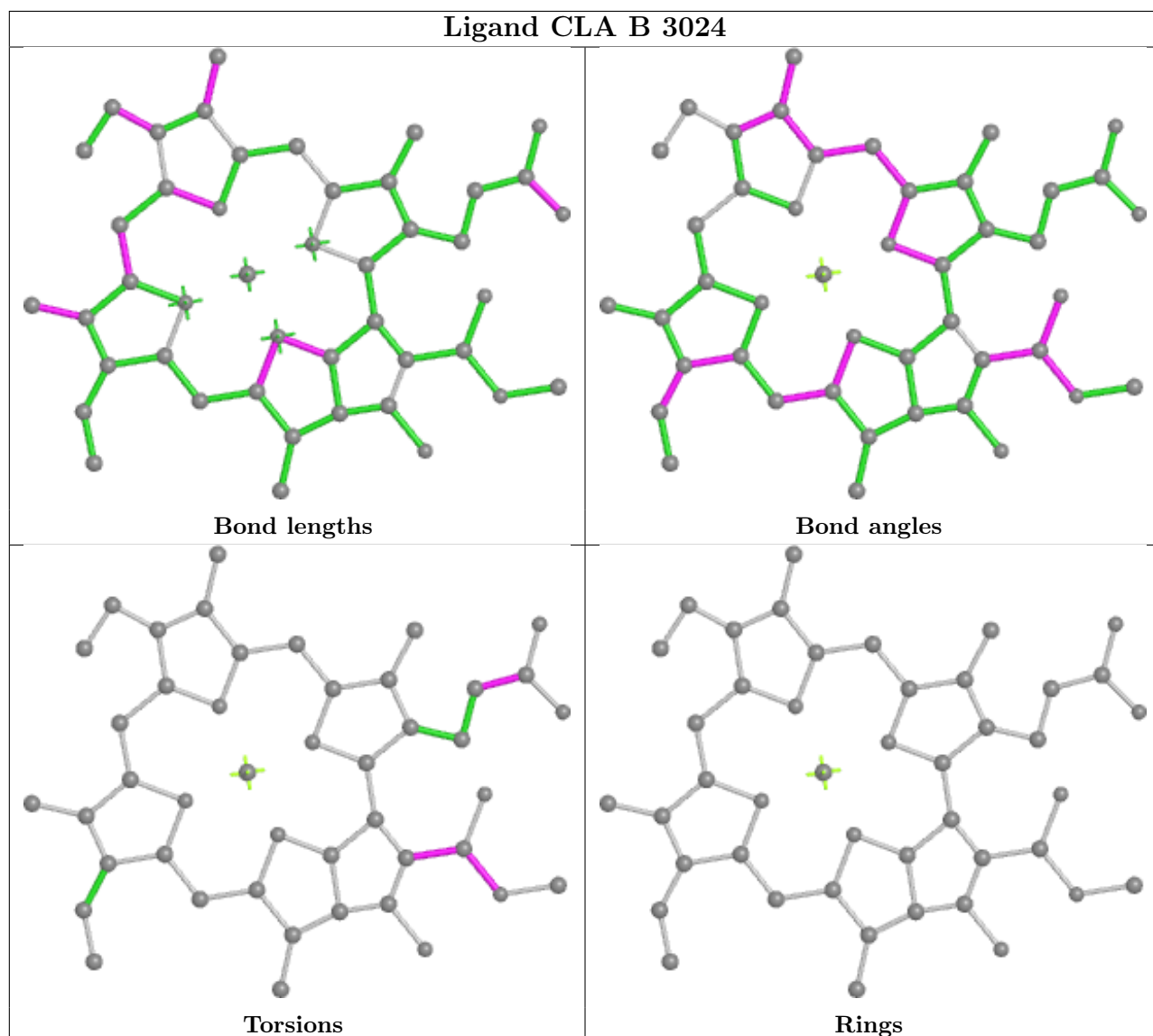
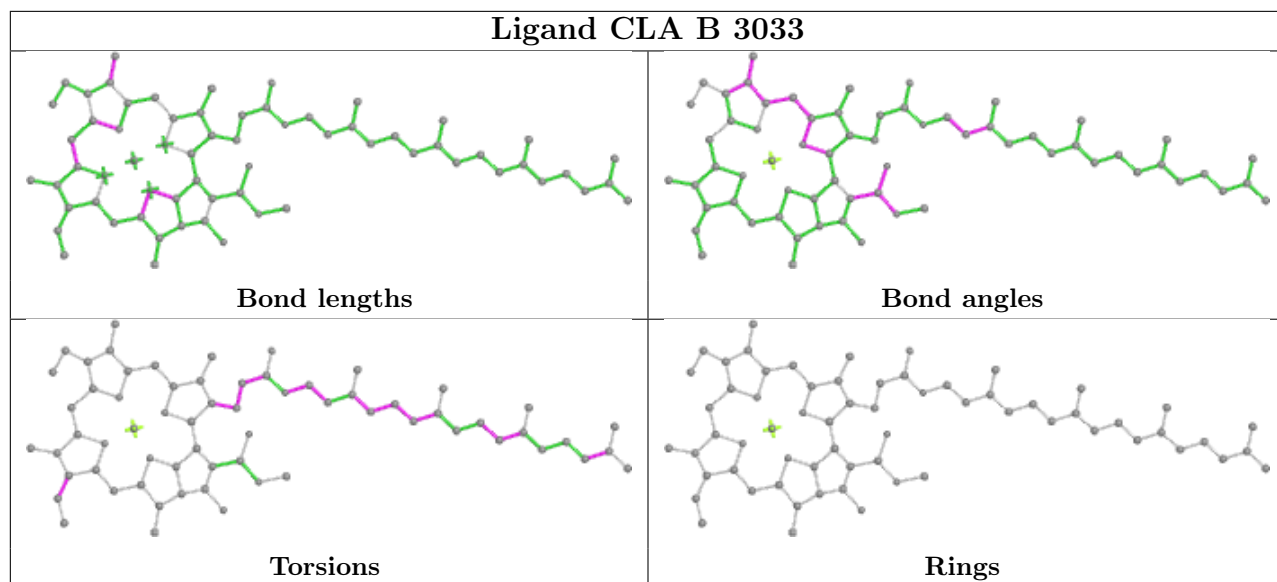


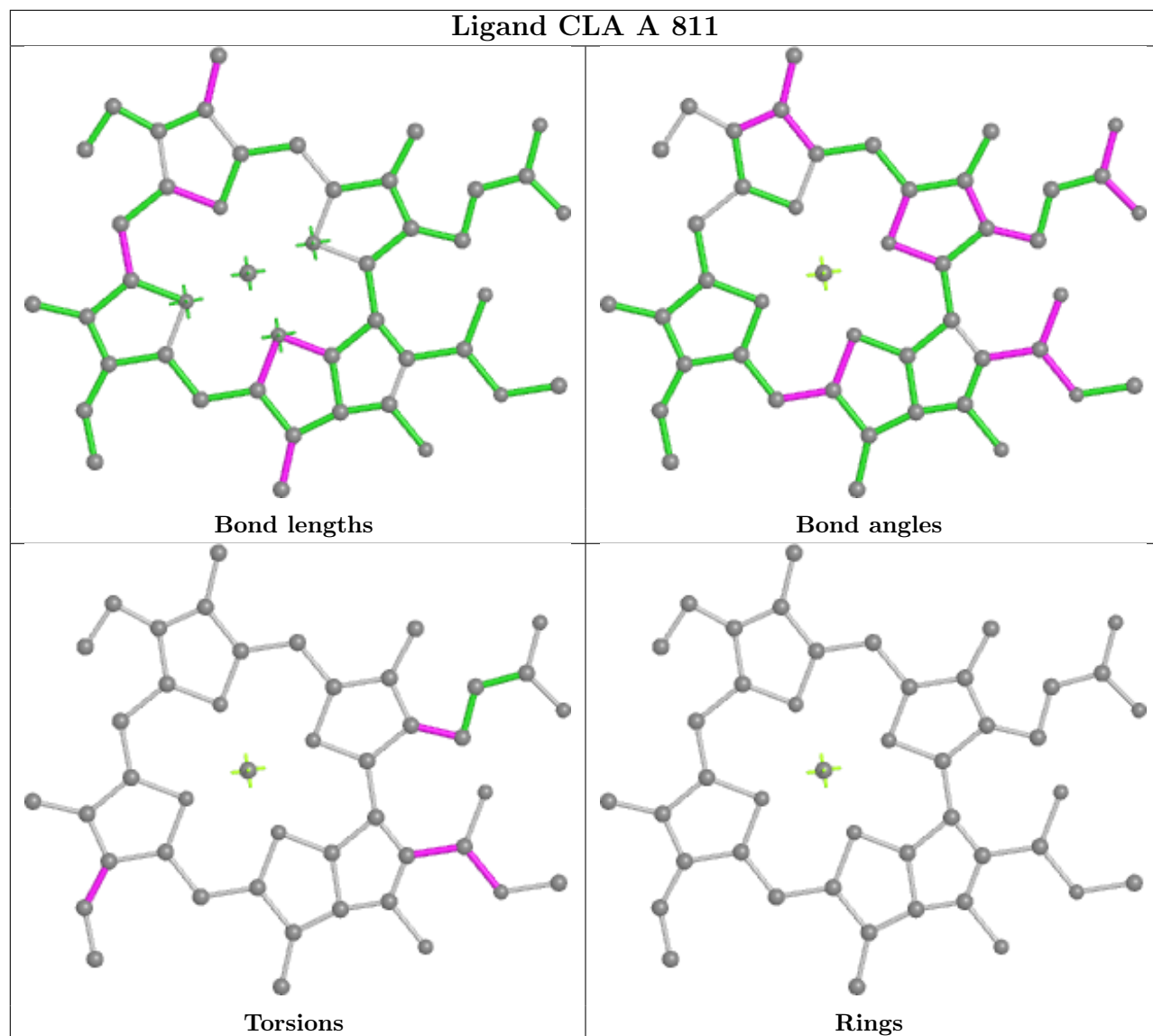


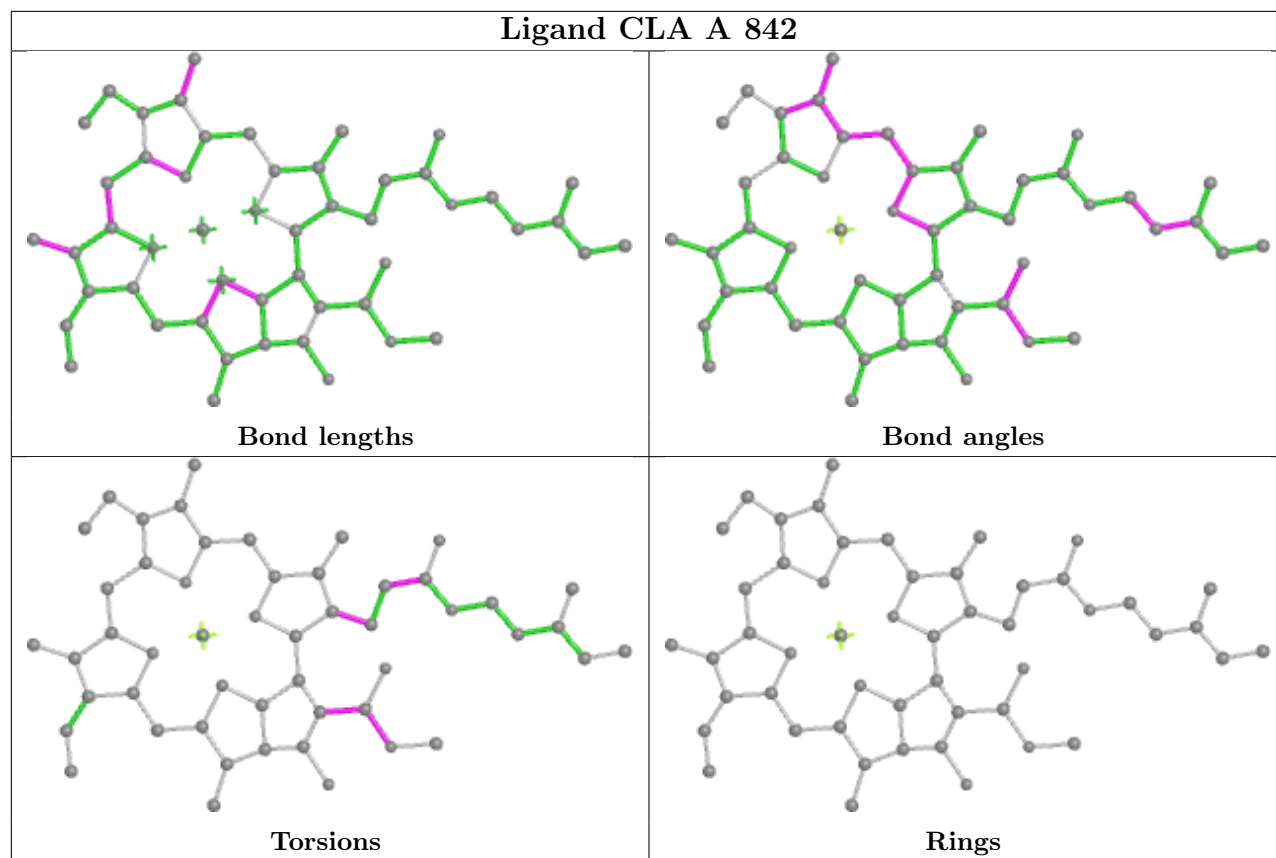


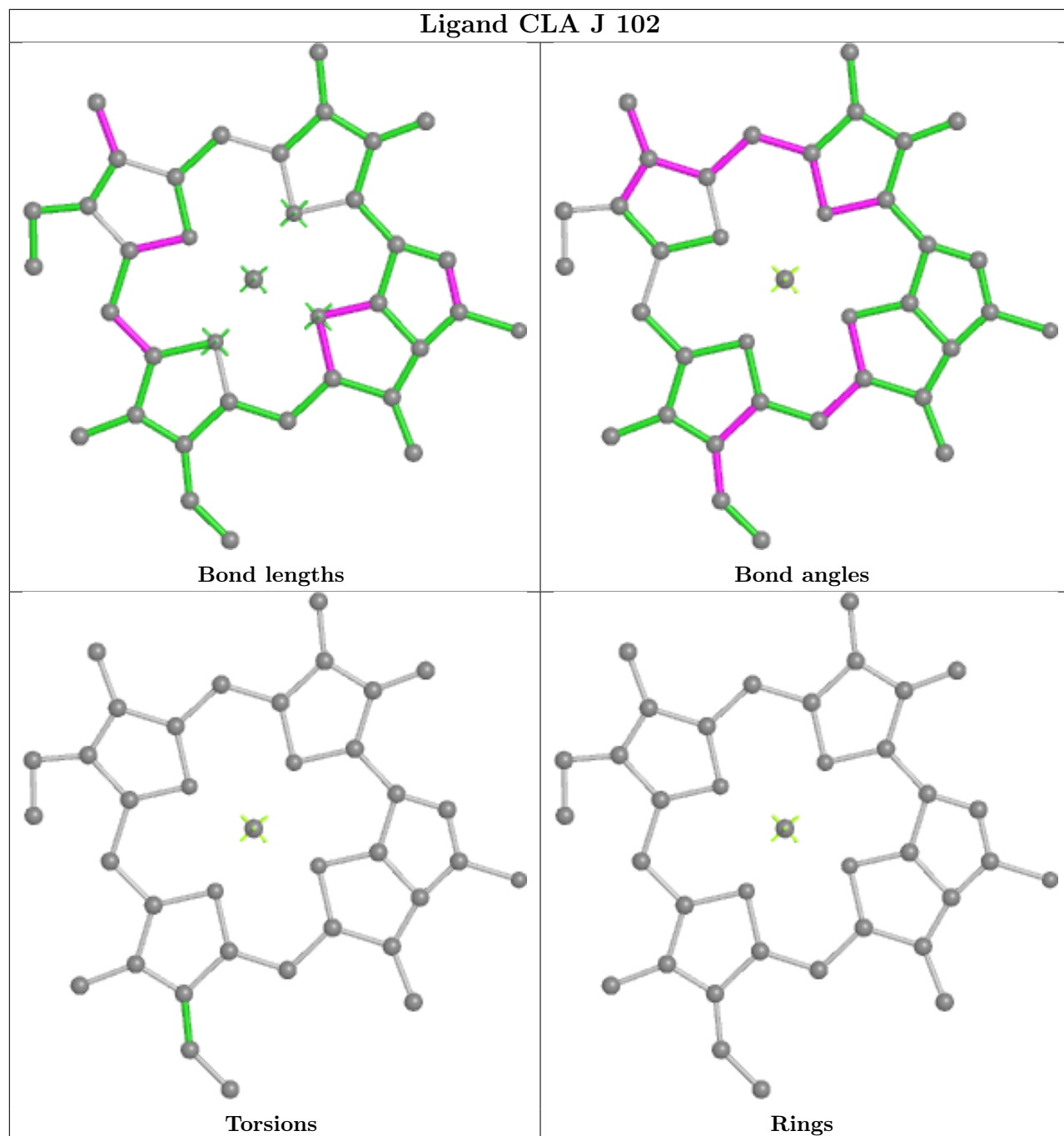












## 5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

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

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	740/755 (98%)	0.85	140 (18%) 1 1	27, 87, 134, 171	0
2	B	739/740 (99%)	0.56	84 (11%) 5 5	21, 62, 104, 139	0
3	C	80/80 (100%)	0.37	4 (5%) 28 35	22, 57, 80, 86	0
4	D	138/138 (100%)	0.44	13 (9%) 8 10	34, 67, 91, 137	0
5	E	69/75 (92%)	0.26	3 (4%) 35 42	58, 81, 102, 116	0
6	F	141/164 (85%)	0.63	21 (14%) 2 2	56, 105, 121, 128	0
7	I	38/38 (100%)	0.37	2 (5%) 26 31	24, 38, 65, 89	0
8	J	41/41 (100%)	0.34	4 (9%) 7 8	98, 115, 127, 142	0
9	K	47/83 (56%)	2.38	29 (61%) 0 0	123, 159, 175, 190	0
10	L	151/154 (98%)	0.10	2 (1%) 77 84	19, 37, 71, 121	0
11	M	31/31 (100%)	0.05	0 100 100	36, 52, 74, 102	0
12	X	29/35 (82%)	0.83	8 (27%) 0 0	62, 88, 114, 128	0
All	All	2244/2334 (96%)	0.63	310 (13%) 2 3	19, 71, 128, 190	0

All (310) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	274	ALA	16.9
1	A	278	PHE	13.3
9	K	57	PRO	8.9
4	D	1	THR	7.7
1	A	279	LEU	7.2
9	K	32	TYR	7.1
1	A	244	LEU	6.6
1	A	40	ARG	6.5
1	A	239	PRO	6.4
1	A	22	PRO	6.1
2	B	589	MET	6.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	248	LEU	5.9
9	K	71	ALA	5.8
1	A	275	TYR	5.8
1	A	260	PHE	5.2
1	A	120	ILE	5.2
9	K	37	ARG	5.2
1	A	273	ALA	5.2
1	A	281	PHE	5.1
5	E	2	GLN	5.1
1	A	267	PHE	5.0
1	A	238	LEU	5.0
1	A	20	PRO	5.0
1	A	522	GLY	4.9
6	F	25	THR	4.9
6	F	100	ILE	4.9
1	A	316	ARG	4.8
1	A	317	THR	4.6
9	K	33	ALA	4.6
1	A	270	PHE	4.5
2	B	492	TRP	4.5
2	B	314	VAL	4.5
1	A	688	MET	4.4
1	A	243	ILE	4.4
1	A	261	PHE	4.4
9	K	42	GLY	4.4
2	B	536	THR	4.3
1	A	680	HIS	4.3
2	B	591	ASN	4.3
2	B	309	PHE	4.3
1	A	315	TYR	4.2
9	K	61	ALA	4.2
2	B	535	THR	4.2
1	A	409	ALA	4.1
1	A	684	ALA	4.1
1	A	272	TRP	4.0
1	A	732	VAL	4.0
4	D	10	TYR	4.0
9	K	28	ALA	4.0
1	A	733	ALA	4.0
2	B	717	ALA	3.9
1	A	734	HIS	3.9
1	A	740	ILE	3.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	B	532	GLY	3.8
12	X	35	LYS	3.8
4	D	3	LEU	3.8
1	A	408	GLY	3.8
1	A	268	PHE	3.8
1	A	174	PHE	3.7
9	K	43	LEU	3.7
2	B	583	TYR	3.7
1	A	731	GLY	3.7
2	B	724	ILE	3.7
1	A	223	ILE	3.6
6	F	26	ALA	3.6
1	A	259	GLY	3.6
1	A	251	GLU	3.6
2	B	495	TYR	3.6
2	B	664	ALA	3.6
1	A	256	VAL	3.6
2	B	588	TRP	3.6
3	C	38	ILE	3.6
2	B	539	ILE	3.5
1	A	592	TRP	3.5
2	B	592	THR	3.5
9	K	41	PRO	3.5
2	B	254	LEU	3.4
2	B	537	THR	3.4
1	A	407	GLY	3.4
12	X	9	TYR	3.4
6	F	85	LEU	3.4
1	A	367	SER	3.4
2	B	720	SER	3.4
6	F	93	GLU	3.4
1	A	602	MET	3.4
6	F	96	GLU	3.4
4	D	55	LEU	3.3
12	X	8	THR	3.3
9	K	31	ARG	3.3
2	B	243	PHE	3.3
1	A	405	VAL	3.3
1	A	679	ALA	3.2
1	A	398	MET	3.2
2	B	429	SER	3.2
1	A	736	LEU	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	401	GLY	3.2
2	B	310	PHE	3.2
4	D	2	THR	3.2
9	K	67	HIS	3.2
1	A	241	GLU	3.2
10	L	4	LEU	3.2
1	A	738	GLY	3.2
1	A	689	PHE	3.1
1	A	603	TYR	3.1
1	A	685	PHE	3.1
1	A	53	ALA	3.1
1	A	402	GLY	3.1
1	A	379	PRO	3.1
1	A	399	TRP	3.1
2	B	595	TRP	3.1
9	K	56	LEU	3.1
4	D	12	GLY	3.1
1	A	257	ASP	3.1
1	A	218	HIS	3.0
9	K	30	GLY	3.0
1	A	302	LEU	3.0
1	A	730	VAL	3.0
1	A	193	VAL	3.0
9	K	64	SER	3.0
6	F	63	PHE	3.0
1	A	686	SER	3.0
2	B	593	ILE	3.0
1	A	319	TRP	3.0
2	B	477	PHE	3.0
2	B	586	MET	3.0
2	B	534	HIS	2.9
2	B	380	TYR	2.9
2	B	384	PHE	2.9
9	K	68	LEU	2.9
1	A	21	VAL	2.9
1	A	729	ALA	2.9
9	K	40	GLY	2.9
1	A	348	LEU	2.9
1	A	19	ASP	2.9
1	A	726	GLN	2.9
1	A	116	VAL	2.9
2	B	723	TYR	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
5	E	69	ALA	2.9
2	B	528	ALA	2.9
12	X	10	ALA	2.9
1	A	682	ILE	2.9
1	A	725	ILE	2.9
1	A	247	SER	2.8
2	B	378	HIS	2.8
2	B	312	THR	2.8
1	A	14	VAL	2.8
2	B	306	ALA	2.8
2	B	578	ALA	2.8
6	F	24	THR	2.8
2	B	349	SER	2.8
2	B	388	GLY	2.8
1	A	51	LEU	2.8
1	A	183	ARG	2.8
1	A	396	HIS	2.7
1	A	678	GLY	2.7
2	B	594	GLY	2.7
1	A	362	MET	2.7
2	B	124	TYR	2.7
6	F	53	VAL	2.7
1	A	605	CYS	2.7
1	A	18	ASN	2.7
2	B	533	LEU	2.7
1	A	400	ILE	2.7
9	K	34	ILE	2.7
2	B	426	SER	2.7
12	X	13	THR	2.7
2	B	585	ALA	2.6
9	K	74	VAL	2.6
2	B	582	PHE	2.6
5	E	32	VAL	2.6
7	I	1	MET	2.6
1	A	358	ILE	2.6
2	B	503	TRP	2.6
12	X	33	ILE	2.6
6	F	97	LYS	2.6
2	B	529	ILE	2.6
1	A	391	LEU	2.6
2	B	430	LEU	2.6
9	K	24	LEU	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	245	ASN	2.6
1	A	410	ALA	2.6
2	B	663	TRP	2.6
2	B	590	LEU	2.6
6	F	118	LEU	2.6
1	A	92	PHE	2.6
1	A	364	GLY	2.6
1	A	681	PHE	2.6
2	B	377	HIS	2.5
6	F	124	LEU	2.5
1	A	475	PHE	2.5
12	X	12	ARG	2.5
1	A	119	PRO	2.5
1	A	294	LEU	2.5
8	J	41	LEU	2.5
2	B	343	CYS	2.5
1	A	360	LEU	2.5
2	B	716	LEU	2.5
1	A	359	ASN	2.5
1	A	237	PRO	2.5
4	D	94	ILE	2.5
2	B	480	LEU	2.5
2	B	386	MET	2.5
2	B	531	LEU	2.5
2	B	390	PHE	2.5
1	A	591	GLY	2.5
2	B	436	THR	2.5
1	A	75	ALA	2.5
1	A	482	LEU	2.5
2	B	680	LEU	2.5
1	A	587	CYS	2.5
1	A	411	HIS	2.4
2	B	389	ALA	2.4
1	A	690	LEU	2.4
2	B	538	LEU	2.4
2	B	709	VAL	2.4
6	F	125	ALA	2.4
3	C	31	ASP	2.4
1	A	404	LEU	2.4
1	A	403	PHE	2.4
4	D	11	GLY	2.4
2	B	718	HIS	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	727	GLY	2.4
1	A	43	GLN	2.4
2	B	433	GLY	2.4
2	B	479	THR	2.4
1	A	322	GLY	2.4
1	A	747	PHE	2.4
1	A	382	TYR	2.3
2	B	348	THR	2.3
4	D	44	ALA	2.3
6	F	99	ILE	2.3
4	D	31	TRP	2.3
1	A	593	ASP	2.3
2	B	428	VAL	2.3
6	F	80	VAL	2.3
1	A	412	GLY	2.3
1	A	195	SER	2.3
1	A	363	MET	2.3
12	X	7	PRO	2.3
9	K	63	THR	2.3
2	B	669	PHE	2.3
2	B	382	ALA	2.3
2	B	231	VAL	2.3
6	F	79	TRP	2.3
2	B	379	GLN	2.3
2	B	540	LEU	2.3
2	B	722	GLY	2.2
1	A	406	VAL	2.2
2	B	671	ILE	2.2
6	F	81	GLY	2.2
9	K	26	ALA	2.2
2	B	387	VAL	2.2
9	K	27	ILE	2.2
1	A	324	SER	2.2
1	A	604	ASN	2.2
1	A	683	TRP	2.2
4	D	68	ALA	2.2
1	A	739	GLY	2.2
9	K	65	PHE	2.2
1	A	687	LEU	2.2
2	B	432	LEU	2.2
1	A	741	ALA	2.2
2	B	665	THR	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	556	GLY	2.2
1	A	397	HIS	2.2
2	B	579	TRP	2.2
1	A	507	ALA	2.2
9	K	38	GLY	2.2
1	A	711	LEU	2.2
1	A	716	ALA	2.2
1	A	596	PHE	2.2
2	B	347	ILE	2.2
2	B	229	TRP	2.2
2	B	126	ILE	2.1
10	L	5	VAL	2.1
1	A	297	THR	2.1
1	A	121	VAL	2.1
2	B	693	LEU	2.1
3	C	25	LEU	2.1
4	D	9	LEU	2.1
8	J	40	PRO	2.1
9	K	77	LEU	2.1
2	B	668	MET	2.1
1	A	694	ARG	2.1
9	K	39	LYS	2.1
1	A	292	LEU	2.1
3	C	60	ASP	2.1
6	F	121	LEU	2.1
7	I	36	GLY	2.1
9	K	58	GLU	2.1
6	F	114	PHE	2.1
8	J	29	PHE	2.1
4	D	83	TYR	2.1
2	B	300	ILE	2.1
8	J	32	PHE	2.1
1	A	700	LEU	2.1
1	A	743	THR	2.1
1	A	601	TRP	2.1
9	K	75	SER	2.1
1	A	698	GLN	2.0
6	F	50	HIS	2.0
1	A	29	ALA	2.0
1	A	323	HIS	2.0
1	A	58	PHE	2.0
2	B	351	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
6	F	107	ILE	2.0
1	A	509	ALA	2.0
1	A	735	TYR	2.0
2	B	707	SER	2.0
1	A	117	VAL	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
14	CLA	M	102	45/65	0.62	0.46	93,141,177,190	0
16	BCR	A	848	40/40	0.63	0.71	88,129,181,187	0
16	BCR	A	847	40/40	0.66	0.61	106,141,172,186	0
17	LMG	I	104	40/55	0.67	0.59	59,95,131,154	0
16	BCR	J	104	40/40	0.70	0.38	88,126,155,160	0
16	BCR	J	105	40/40	0.70	0.60	77,124,164,171	0
16	BCR	F	201	40/40	0.70	0.45	55,101,134,142	0
16	BCR	K	102	40/40	0.72	0.79	117,157,176,186	0
18	LHG	M	101	49/49	0.72	0.51	57,99,174,191	0
16	BCR	B	3043	40/40	0.74	1.04	85,120,154,171	0
18	LHG	B	3049	23/49	0.75	0.31	83,121,149,155	0
16	BCR	F	203	40/40	0.76	0.34	53,104,137,157	0
21	LMT	L	201	35/35	0.78	0.55	84,152,189,202	0
22	DGD	L	206	66/66	0.78	0.34	55,109,166,179	0
14	CLA	B	3034	58/65	0.79	0.36	73,108,147,151	0
16	BCR	J	103	40/40	0.79	0.34	71,112,135,139	0
14	CLA	K	103	45/65	0.80	0.23	111,142,174,176	0
17	LMG	A	852	48/55	0.81	0.43	66,123,163,170	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
17	LMG	A	855	30/55	0.82	0.29	42,93,155,172	0
16	BCR	B	3050	40/40	0.84	0.31	56,94,138,144	0
14	CLA	A	828	65/65	0.84	0.26	69,103,138,145	0
14	CLA	A	817	49/65	0.84	0.32	73,138,169,170	0
14	CLA	J	102	37/65	0.84	0.35	112,135,160,173	0
16	BCR	A	849	40/40	0.84	0.29	71,101,165,167	0
14	CLA	A	826	65/65	0.84	0.31	81,111,141,144	0
16	BCR	B	3044	40/40	0.84	0.26	58,84,124,133	0
14	CLA	F	202	45/65	0.85	0.38	96,125,156,161	0
14	CLA	A	818	54/65	0.85	0.49	106,134,161,172	0
14	CLA	K	101	41/65	0.85	0.39	122,159,195,204	0
14	CLA	A	856	65/65	0.85	0.39	48,75,101,112	0
14	CLA	A	816	45/65	0.85	0.48	116,153,179,189	0
14	CLA	B	3038	60/65	0.85	0.30	51,91,123,132	0
14	CLA	J	101	45/65	0.86	0.45	128,147,182,186	0
14	CLA	A	805	59/65	0.86	0.26	85,108,135,151	0
14	CLA	A	845	52/65	0.86	0.20	54,94,121,130	0
16	BCR	A	850	40/40	0.86	0.25	51,84,118,135	0
14	CLA	B	3039	65/65	0.86	0.30	52,98,138,154	0
14	CLA	A	815	45/65	0.86	0.21	96,124,160,166	0
16	BCR	B	3046	40/40	0.86	0.28	64,90,110,116	0
14	CLA	A	841	65/65	0.87	0.29	42,79,133,142	0
14	CLA	A	804	65/65	0.87	0.27	69,108,135,142	0
14	CLA	A	821	43/65	0.87	0.45	82,140,180,186	0
14	CLA	B	3015	65/65	0.87	0.28	56,87,122,127	0
14	CLA	B	3020	65/65	0.87	0.26	58,101,131,143	0
13	CLO	A	801	65/65	0.87	0.30	11,56,81,84	0
14	CLA	A	811	45/65	0.87	0.20	102,135,162,170	0
14	CLA	A	823	49/65	0.88	0.19	88,126,156,168	0
14	CLA	A	814	60/65	0.88	0.35	83,125,150,151	0
14	CLA	A	827	65/65	0.88	0.30	40,78,156,177	0
16	BCR	A	851	40/40	0.88	0.30	30,73,100,103	0
14	CLA	B	3018	59/65	0.88	0.29	57,91,119,127	0
14	CLA	A	803	65/65	0.88	0.42	52,77,98,118	0
14	CLA	B	3025	54/65	0.88	0.24	58,75,97,98	0
16	BCR	B	3047	40/40	0.88	0.23	25,44,71,71	0
14	CLA	A	836	54/65	0.88	0.28	57,97,138,146	0
15	PQN	A	846	33/33	0.88	0.35	61,89,118,121	0
14	CLA	A	812	65/65	0.88	0.26	91,124,154,157	0
14	CLA	A	802	65/65	0.89	0.28	30,49,65,85	0
14	CLA	A	813	54/65	0.89	0.29	84,111,138,146	0
14	CLA	B	3040	47/65	0.89	0.33	59,84,103,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
14	CLA	B	3003	65/65	0.89	0.30	26,59,80,87	0
14	CLA	B	3021	47/65	0.89	0.29	79,108,139,145	0
14	CLA	B	3010	65/65	0.89	0.19	16,48,76,100	0
14	CLA	B	3029	65/65	0.89	0.26	37,71,89,107	0
16	BCR	B	3045	40/40	0.89	0.38	53,86,141,153	0
14	CLA	B	3033	65/65	0.89	0.29	66,96,122,131	0
14	CLA	B	3013	45/65	0.89	0.17	67,99,126,129	0
14	CLA	X	1701	45/65	0.89	0.19	85,114,144,150	0
14	CLA	B	3037	45/65	0.89	0.21	74,99,130,131	0
14	CLA	A	809	65/65	0.90	0.27	48,94,134,139	0
14	CLA	A	834	65/65	0.90	0.21	20,47,75,81	0
14	CLA	B	3027	65/65	0.90	0.25	48,75,102,107	0
14	CLA	B	3004	65/65	0.90	0.26	20,43,63,75	0
14	CLA	L	204	65/65	0.90	0.21	18,55,127,140	0
14	CLA	L	205	65/65	0.90	0.23	31,56,85,95	0
16	BCR	I	105	40/40	0.90	0.21	13,38,58,75	0
14	CLA	B	3030	65/65	0.90	0.27	30,57,90,108	0
14	CLA	B	3006	65/65	0.90	0.24	37,66,100,111	0
14	CLA	B	3008	65/65	0.90	0.21	20,45,77,99	0
15	PQN	B	3042	33/33	0.90	0.25	27,47,66,70	0
14	CLA	B	3035	45/65	0.90	0.22	65,83,105,108	0
14	CLA	B	3036	45/65	0.90	0.23	54,90,117,121	0
14	CLA	A	824	51/65	0.90	0.18	77,111,142,148	0
18	LHG	A	853	49/49	0.90	0.32	48,94,118,128	0
14	CLA	A	837	45/65	0.90	0.19	90,114,137,148	0
14	CLA	A	819	54/65	0.90	0.22	71,104,126,142	0
14	CLA	A	842	51/65	0.90	0.30	46,85,134,153	0
14	CLA	A	806	65/65	0.90	0.34	77,111,146,152	0
14	CLA	A	838	51/65	0.91	0.23	46,69,90,112	0
16	BCR	I	103	40/40	0.91	0.20	12,44,69,71	0
14	CLA	A	840	47/65	0.91	0.22	32,65,86,103	0
14	CLA	B	3041	65/65	0.91	0.27	14,39,62,65	0
14	CLA	B	3028	65/65	0.91	0.28	25,58,110,112	0
14	CLA	I	101	65/65	0.91	0.22	2,28,62,68	0
14	CLA	A	808	51/65	0.91	0.22	91,113,140,144	0
16	BCR	L	207	40/40	0.91	0.18	7,48,96,108	0
16	BCR	M	103	40/40	0.91	0.20	31,58,86,92	0
14	CLA	B	3011	65/65	0.91	0.20	4,34,70,79	0
14	CLA	A	829	65/65	0.91	0.33	69,96,120,127	0
14	CLA	A	820	65/65	0.91	0.24	76,110,135,144	0
14	CLA	L	203	65/65	0.91	0.23	21,51,82,104	0
14	CLA	A	835	65/65	0.91	0.18	11,42,72,100	0

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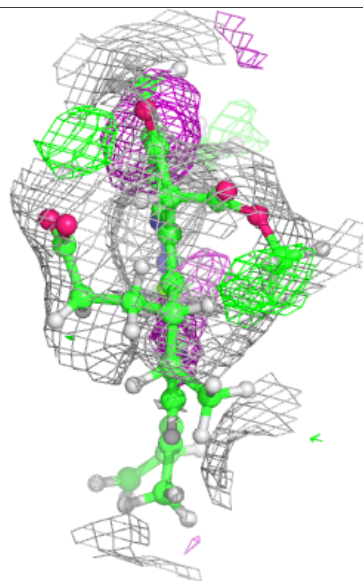
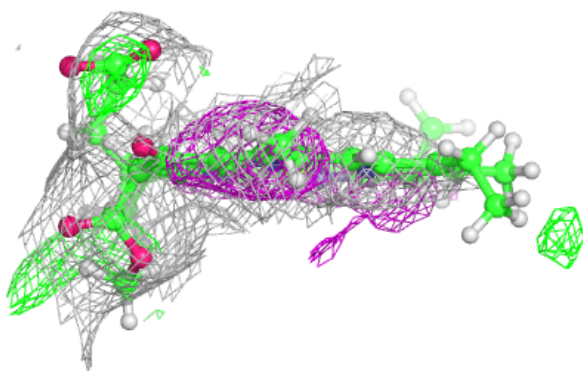
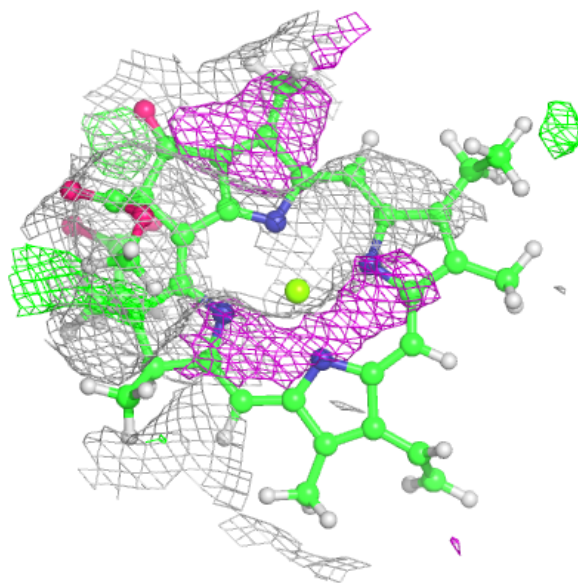
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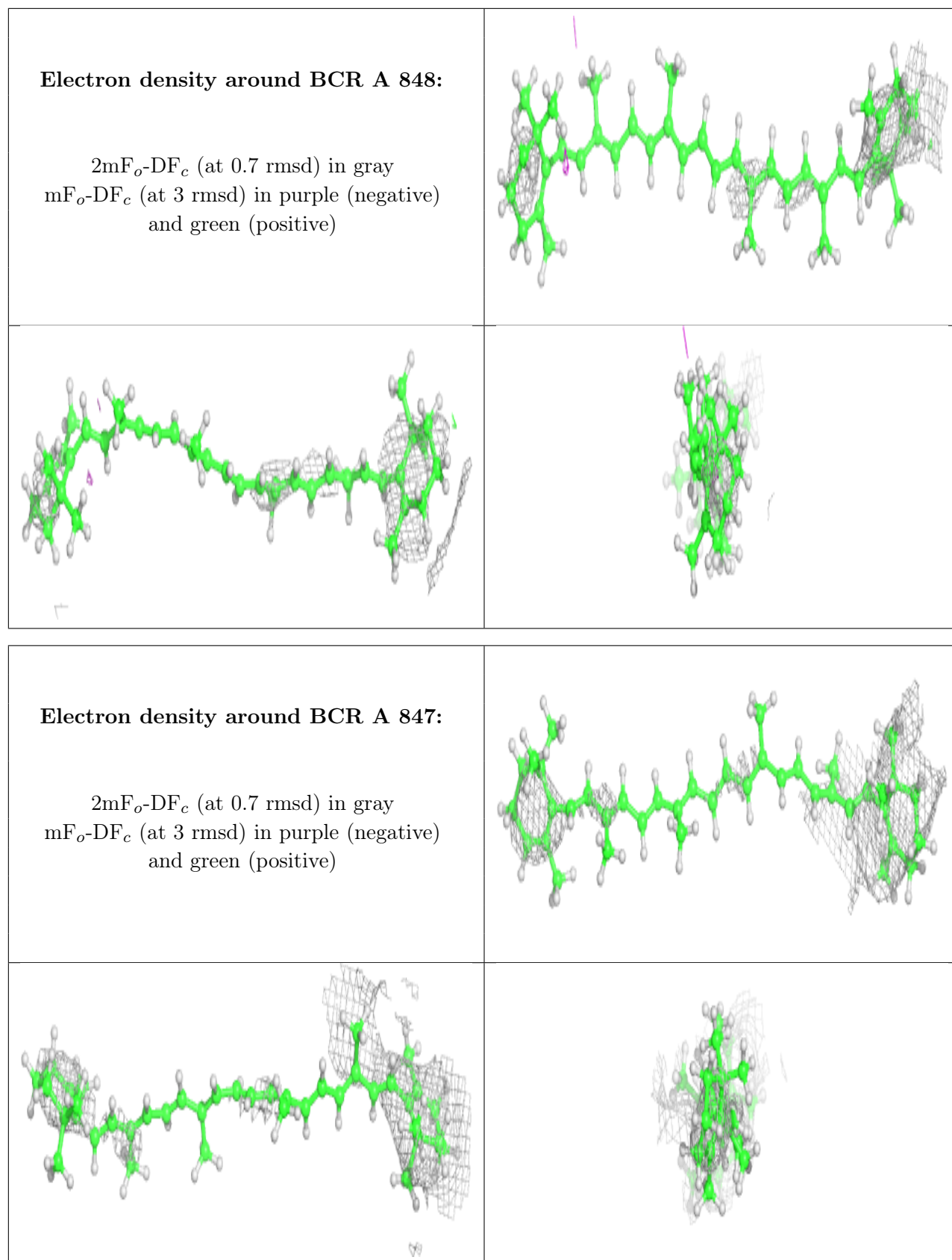
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
14	CLA	B	3019	60/65	0.91	0.25	60,81,110,117	0
20	CA	B	3002	1/1	0.91	0.11	80,80,80,80	0
14	CLA	A	807	65/65	0.91	0.28	66,94,120,127	0
14	CLA	A	822	65/65	0.91	0.23	61,97,131,137	0
14	CLA	B	3009	65/65	0.92	0.18	20,49,82,86	0
14	CLA	B	3022	45/65	0.92	0.23	77,103,130,130	0
14	CLA	B	3023	55/65	0.92	0.25	79,105,132,133	0
14	CLA	A	810	65/65	0.92	0.25	54,109,158,171	0
14	CLA	B	3026	46/65	0.92	0.38	46,74,99,100	0
14	CLA	A	830	65/65	0.92	0.27	65,98,128,131	0
14	CLA	B	3012	45/65	0.92	0.15	55,77,98,121	0
14	CLA	A	831	65/65	0.92	0.33	66,97,120,129	0
14	CLA	B	3014	65/65	0.92	0.21	52,82,109,112	0
17	LMG	B	3048	55/55	0.92	0.21	30,68,94,97	0
14	CLA	A	832	50/65	0.92	0.20	43,71,101,127	0
14	CLA	B	3016	45/65	0.92	0.27	71,92,125,128	0
14	CLA	B	3017	55/65	0.92	0.37	71,107,143,176	0
14	CLA	B	3005	54/65	0.92	0.22	33,58,77,85	0
14	CLA	A	843	65/65	0.92	0.39	47,83,127,146	0
16	BCR	I	102	40/40	0.92	0.22	8,39,60,78	0
14	CLA	A	844	65/65	0.92	0.20	2,28,60,69	0
14	CLA	A	825	59/65	0.93	0.27	60,93,133,145	0
18	LHG	A	854	27/49	0.93	0.18	56,89,126,128	0
14	CLA	B	3007	65/65	0.93	0.27	32,61,87,100	0
14	CLA	A	839	65/65	0.93	0.19	31,69,107,130	0
14	CLA	A	833	65/65	0.93	0.26	34,73,145,150	0
14	CLA	B	3031	45/65	0.93	0.16	56,83,106,123	0
14	CLA	B	3032	49/65	0.93	0.20	44,79,107,132	0
20	CA	L	202	1/1	0.94	0.07	37,37,37,37	0
19	SF4	B	3001	8/8	0.94	0.30	40,56,98,128	0
14	CLA	B	3024	45/65	0.94	0.19	40,71,104,116	0
19	SF4	C	101	8/8	0.95	0.21	33,61,68,81	0
19	SF4	C	102	8/8	0.98	0.13	48,55,72,74	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 CLA M 102:**

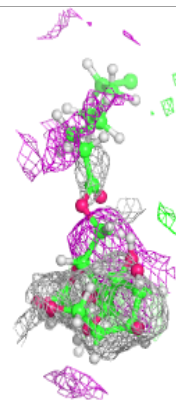
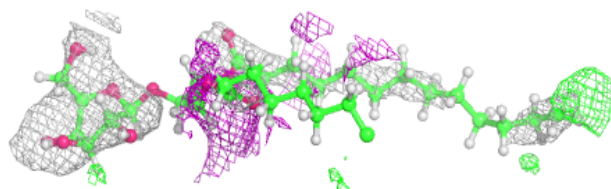
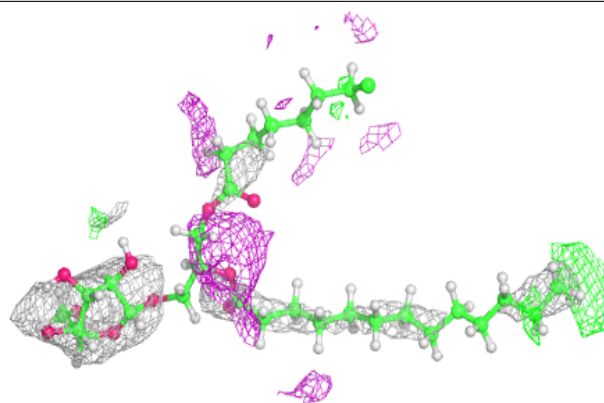
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



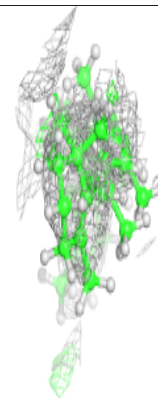
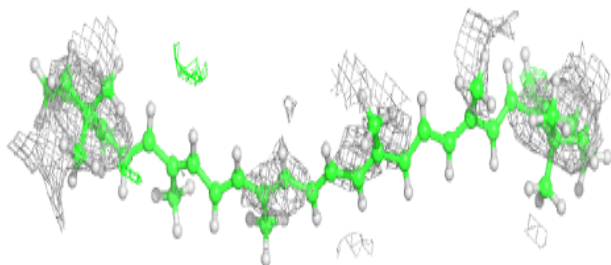
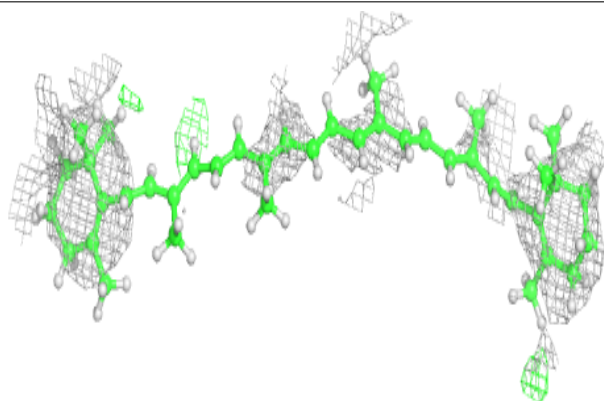


**Electron density around LMG I 104:**

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

**Electron density around BCR J 104:**

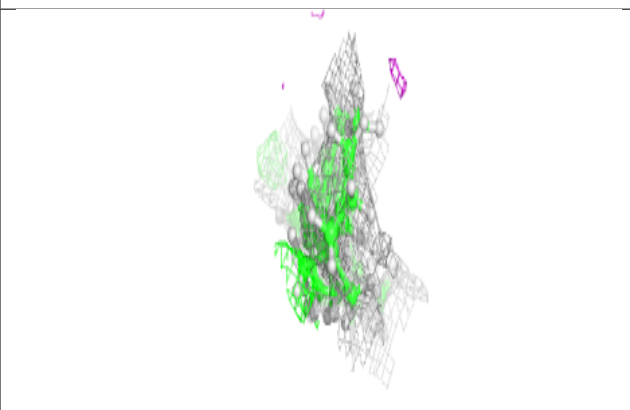
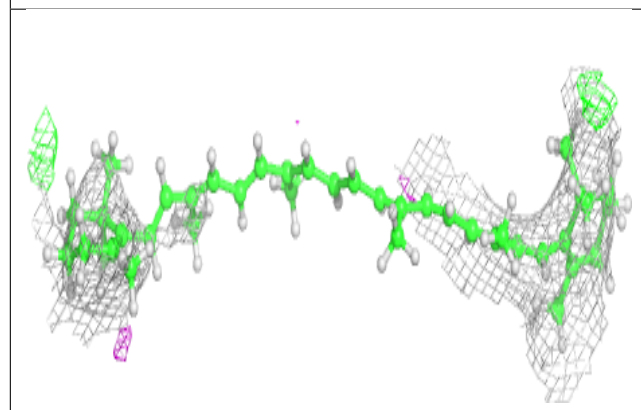
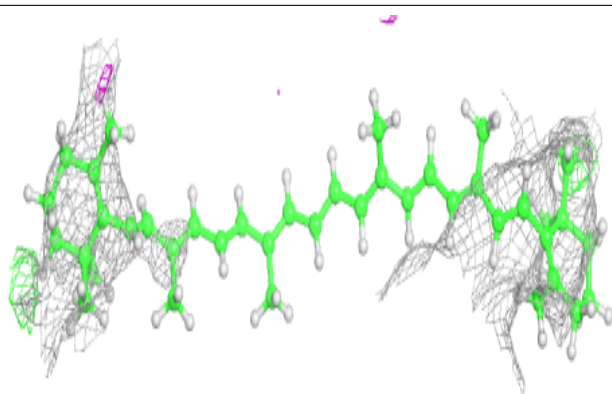
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



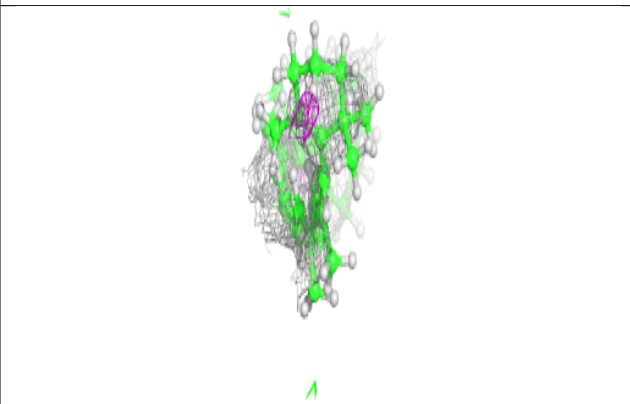
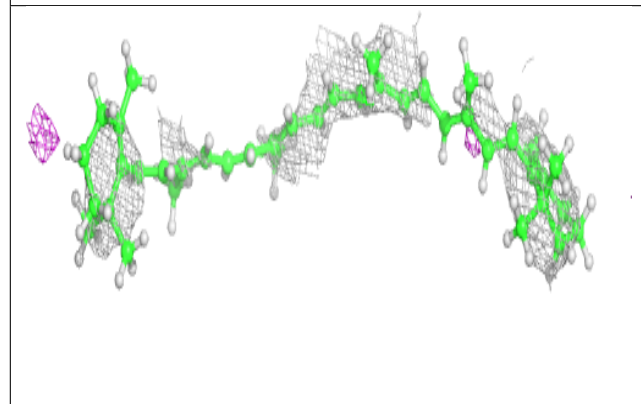
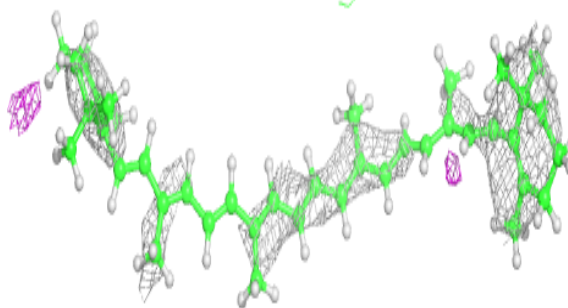


**Electron density around BCR J 105:**

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

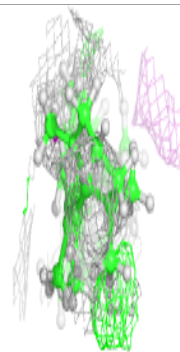
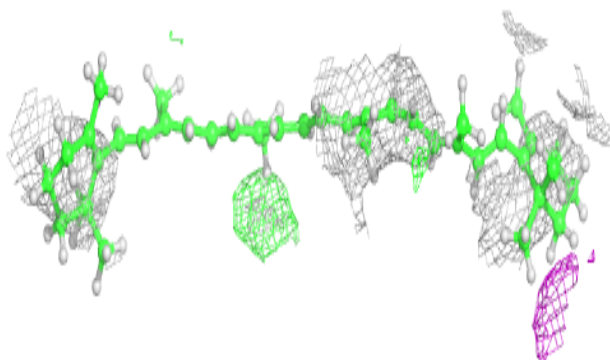
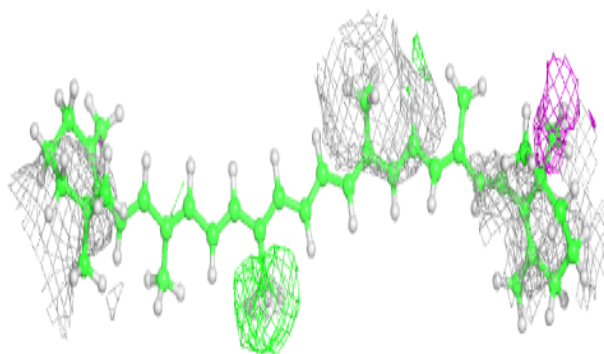
**Electron density around BCR F 201:**

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

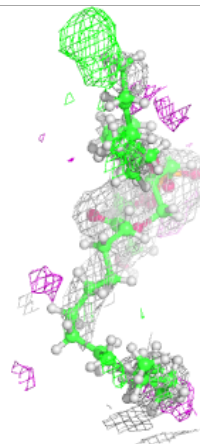
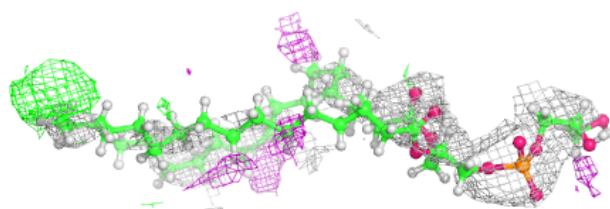
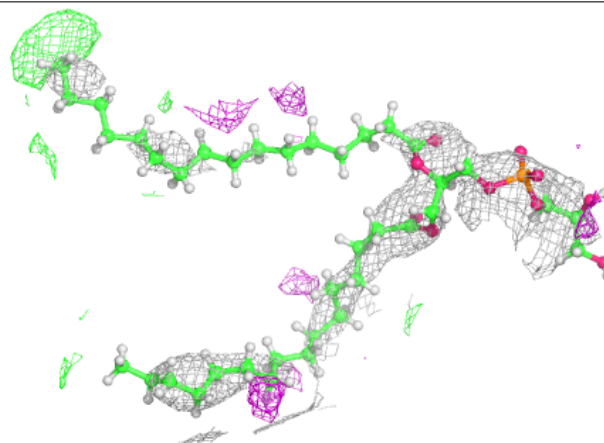


**Electron density around BCR K 102:**

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

**Electron density around LHG M 101:**

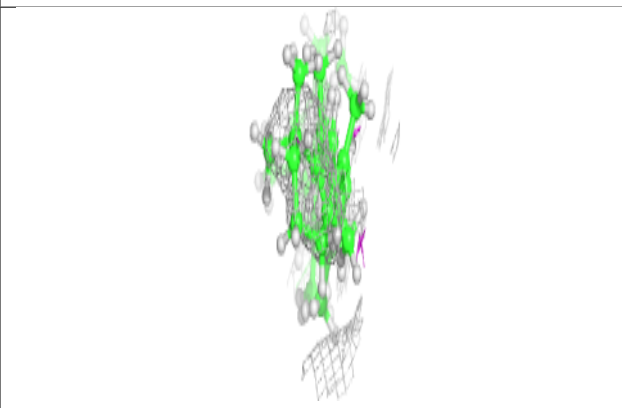
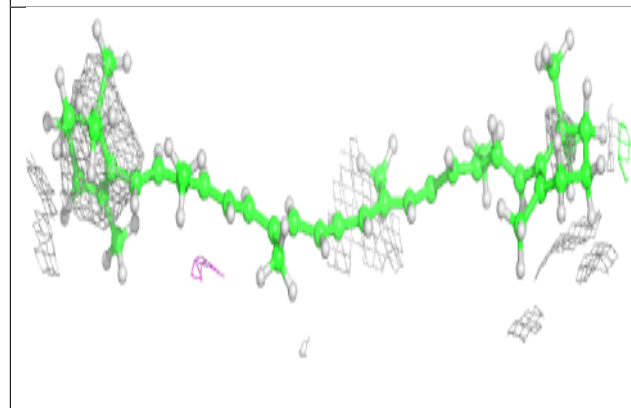
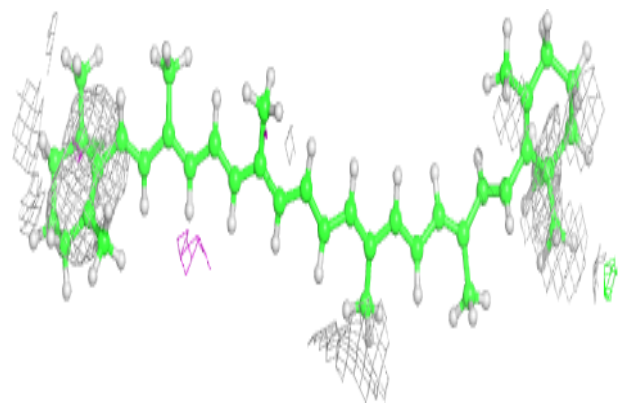
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



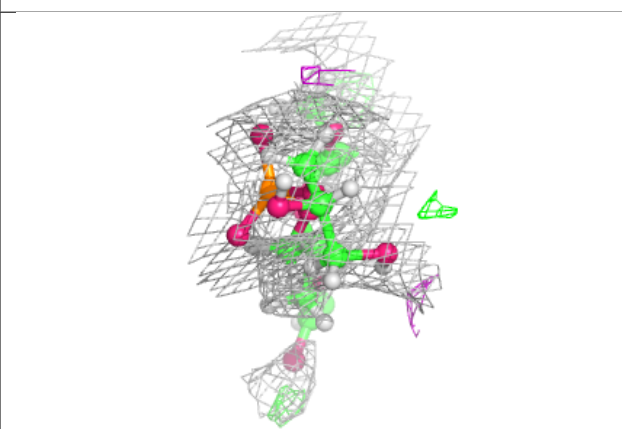
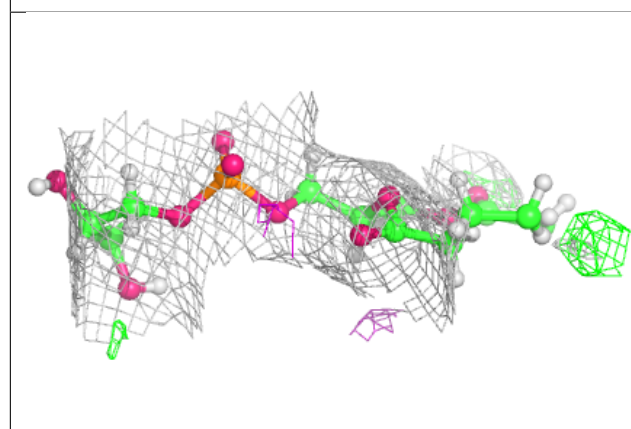
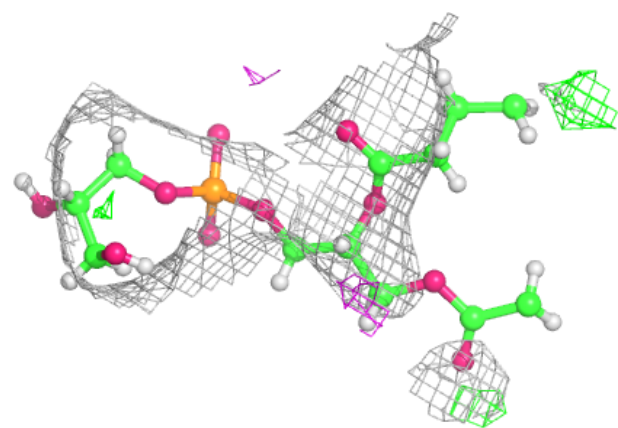


**Electron density around BCR B 3043:**

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

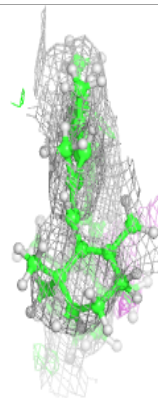
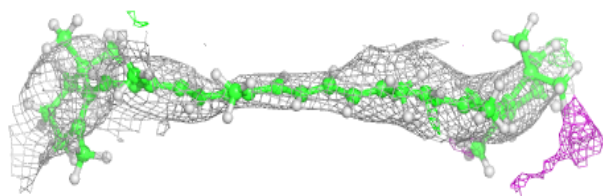
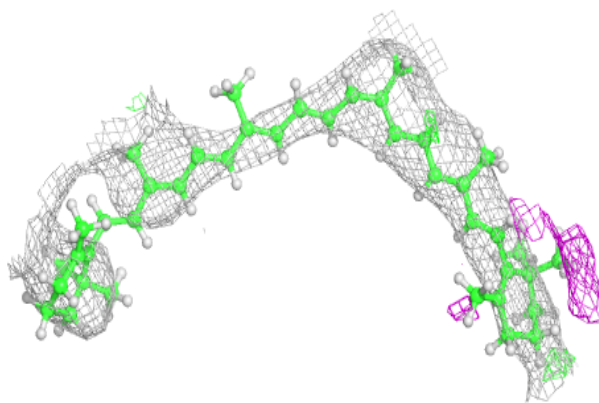
**Electron density around LHG B 3049:**

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

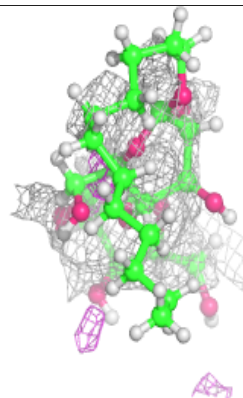
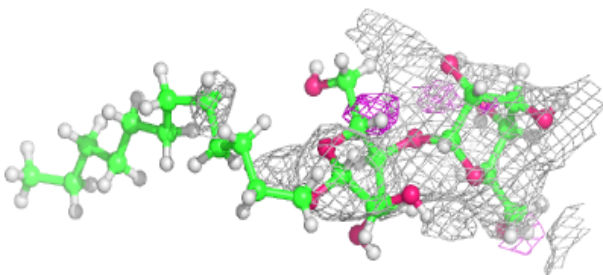
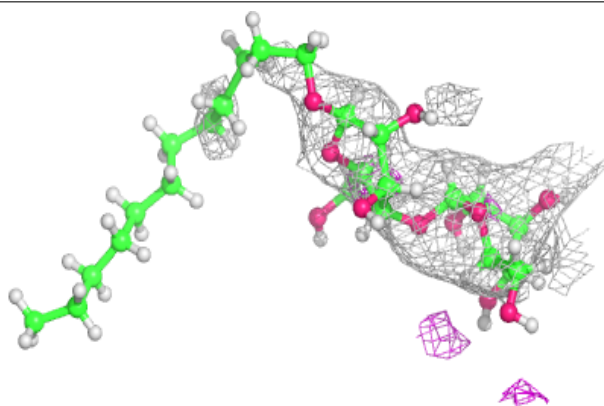


**Electron density around BCR F 203:**

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

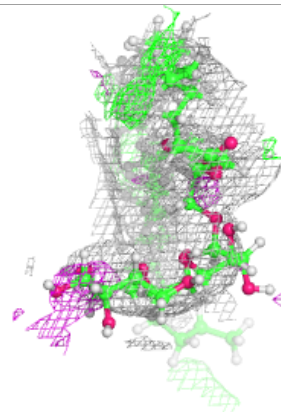
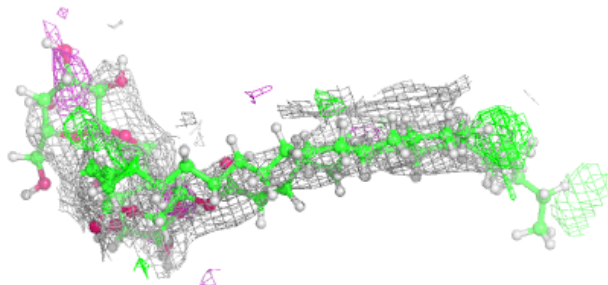
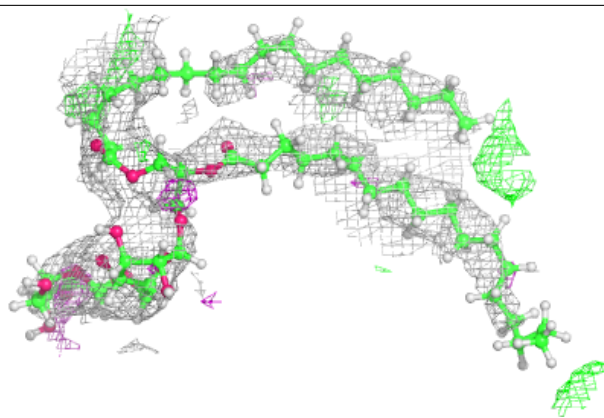
**Electron density around LMT L 201:**

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

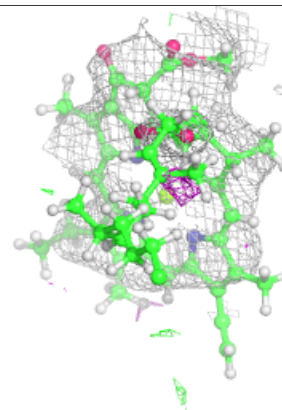
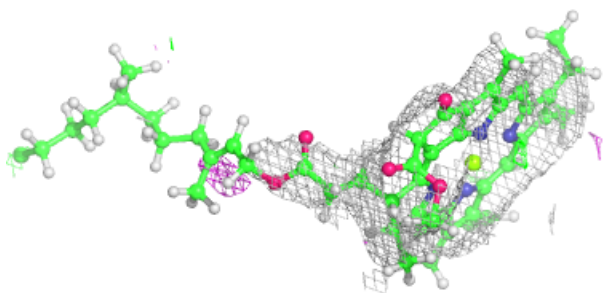
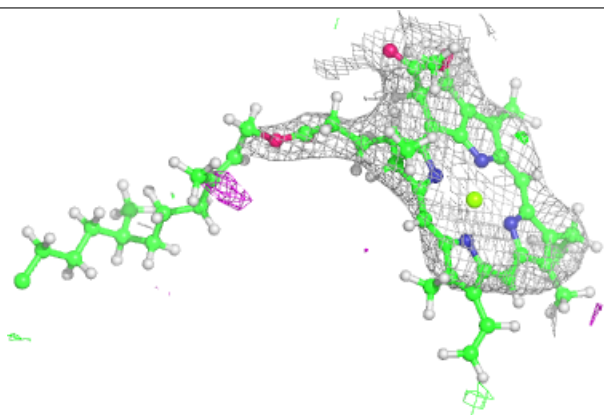


**Electron density around DGD L 206:**

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

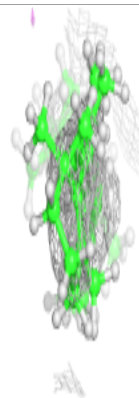
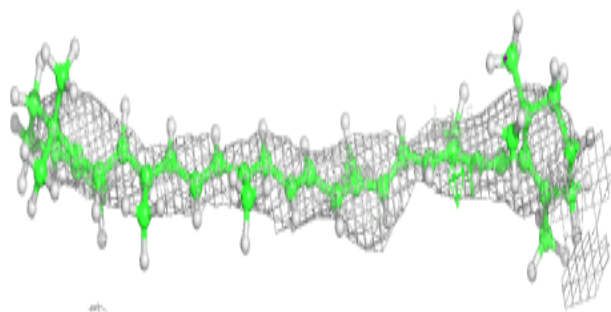
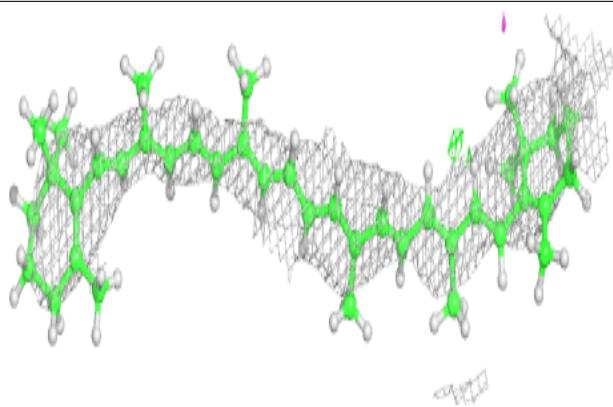
**Electron density around CLA B 3034:**

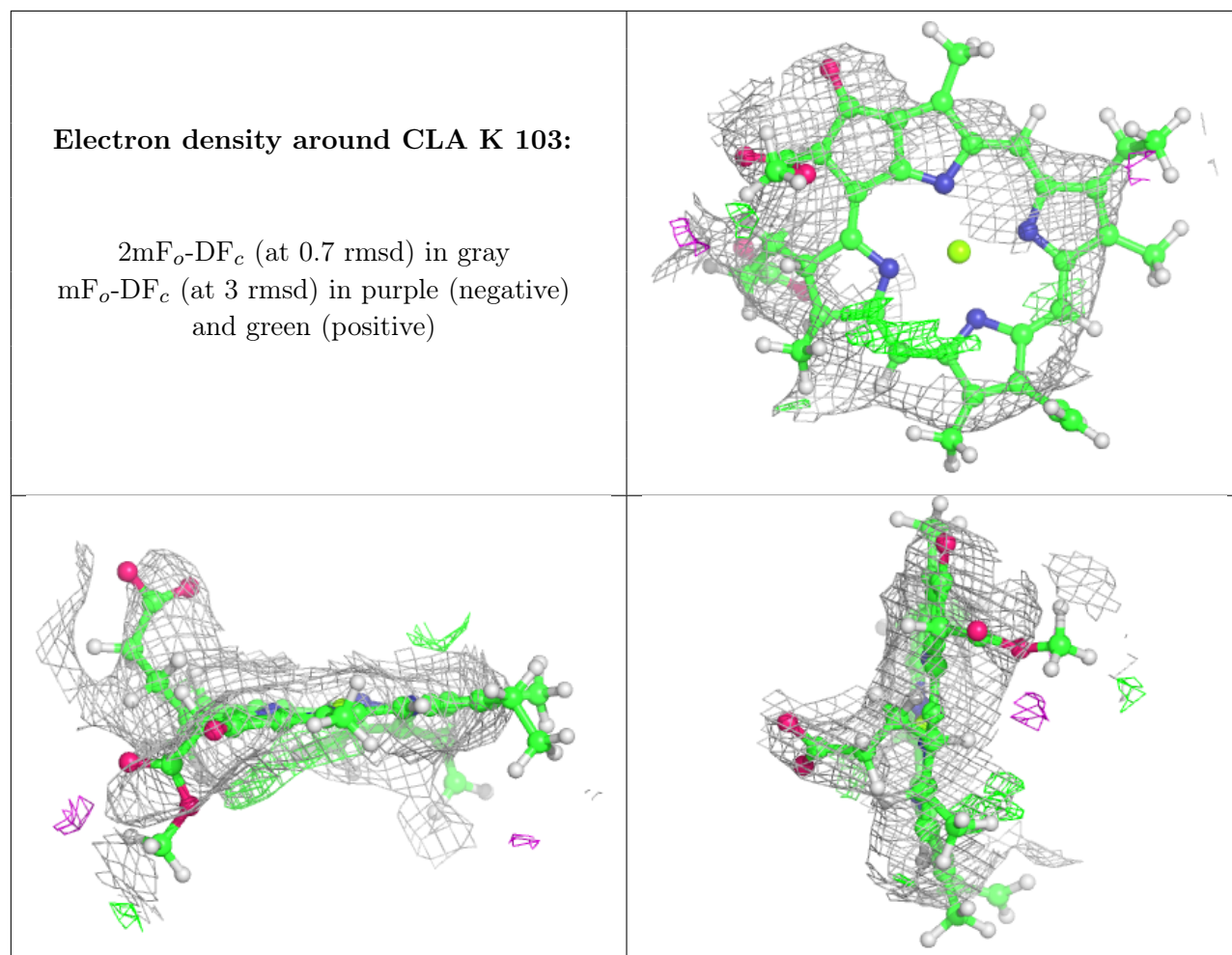
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around BCR J 103:**

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

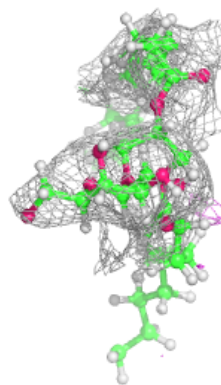
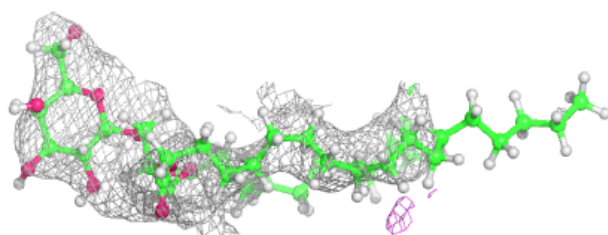
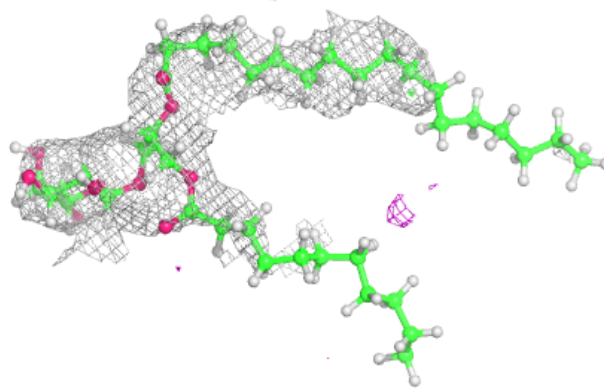




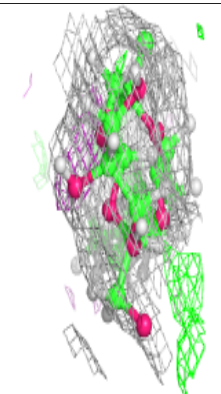
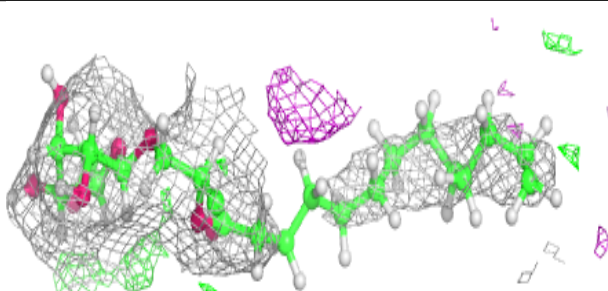
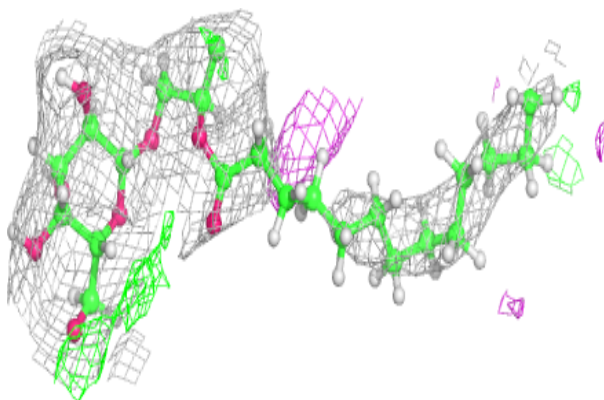


**Electron density around LMG A 852:**

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

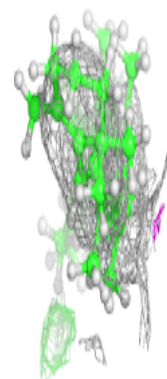
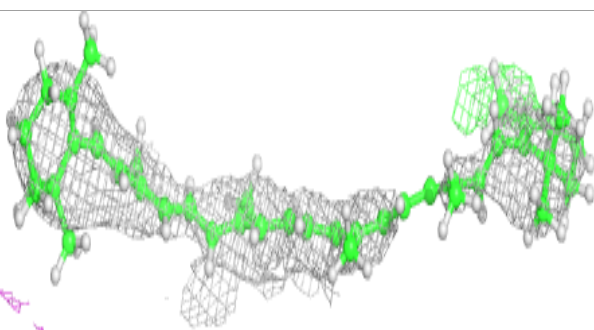
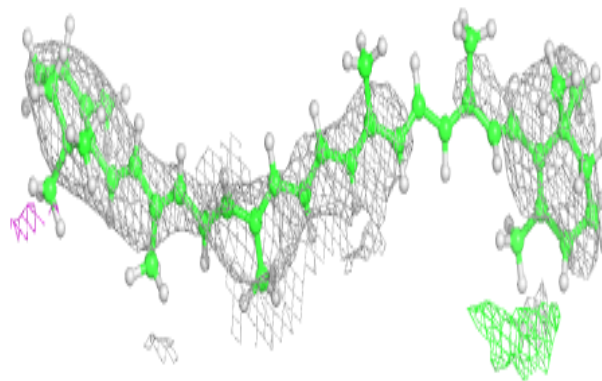
**Electron density around LMG A 855:**

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

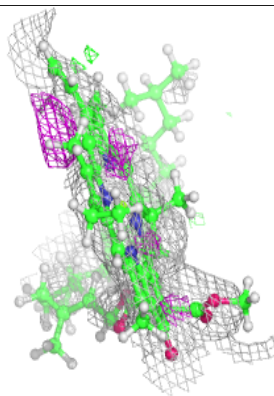
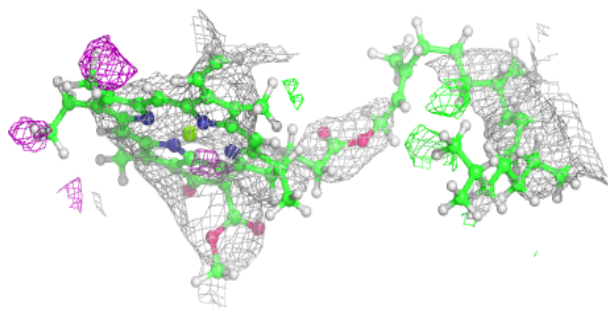
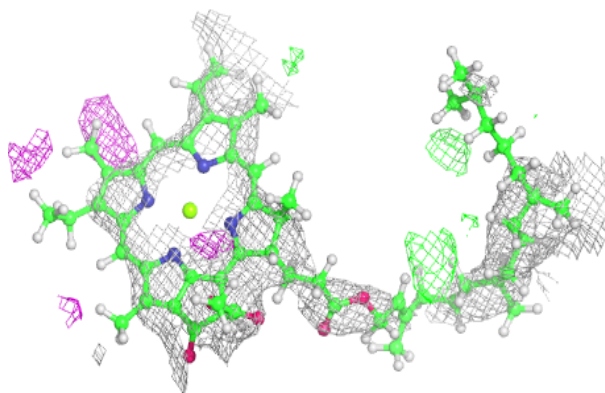


**Electron density around BCR B 3050:**

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

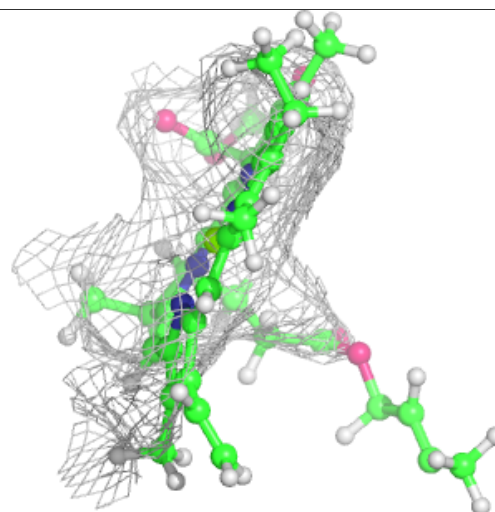
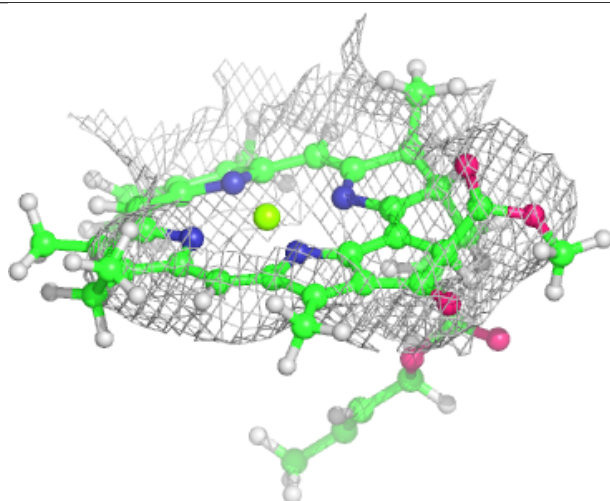
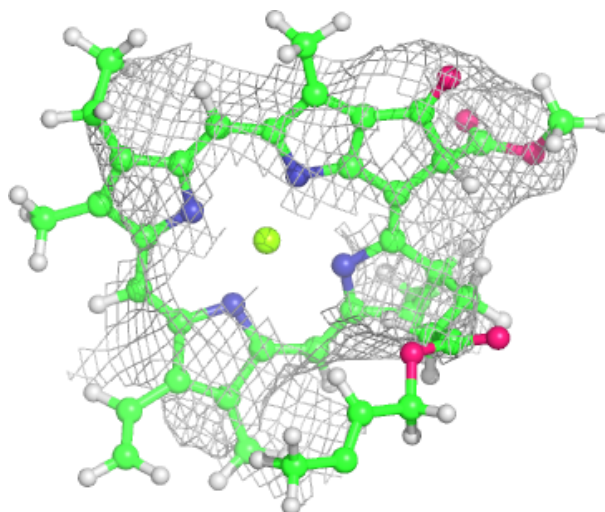
**Electron density around CLA A 828:**

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



**Electron density around CLA A 817:**

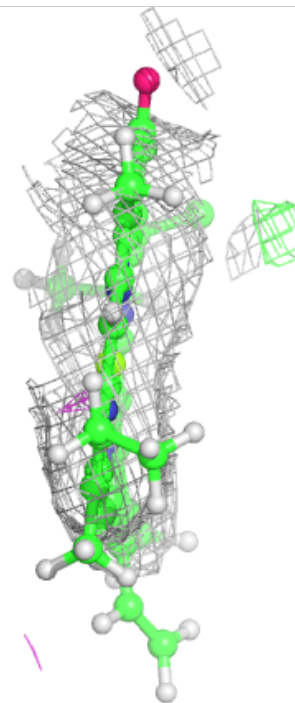
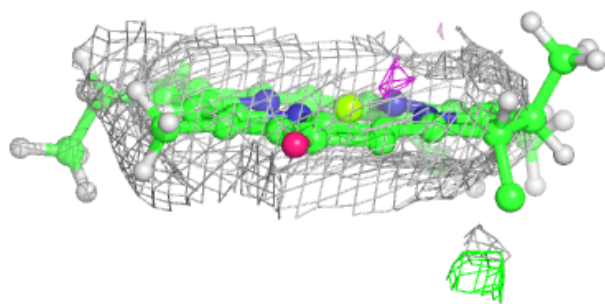
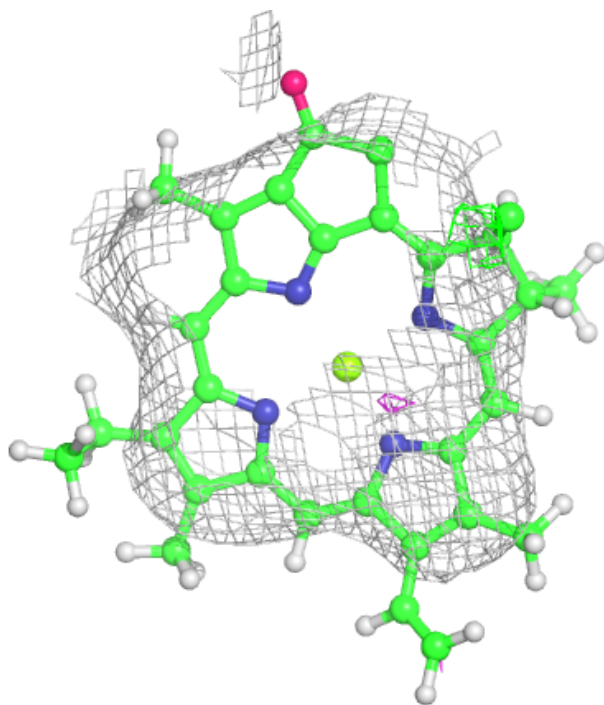
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

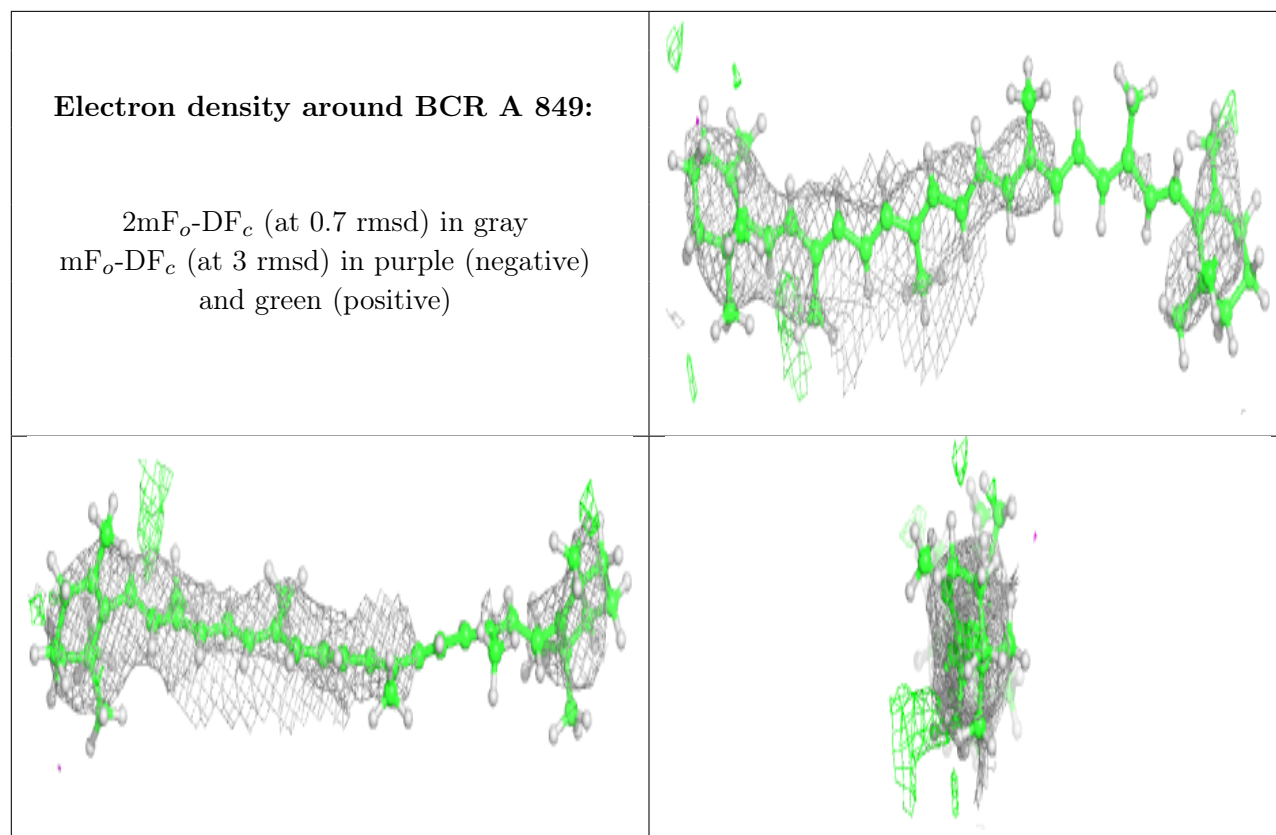




**Electron density around CLA J 102:**

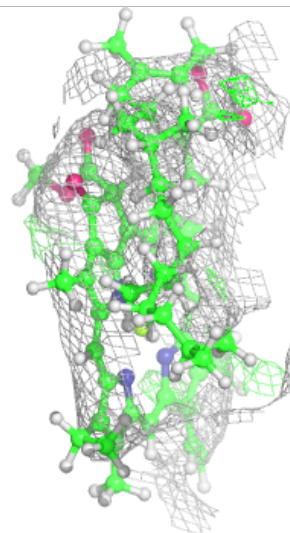
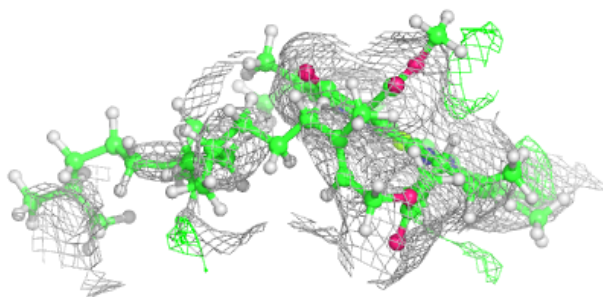
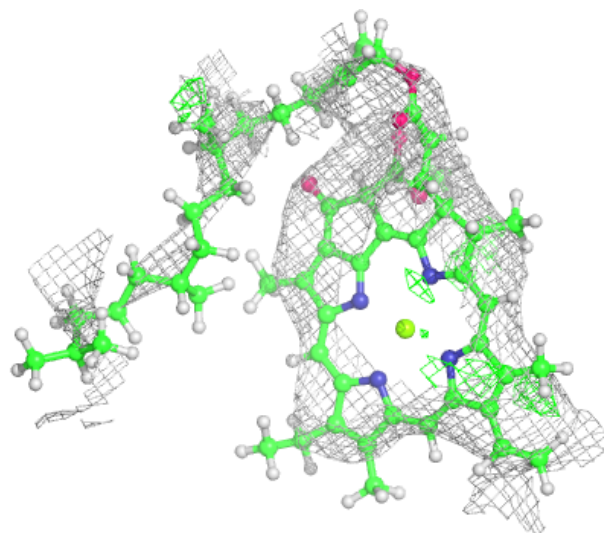
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

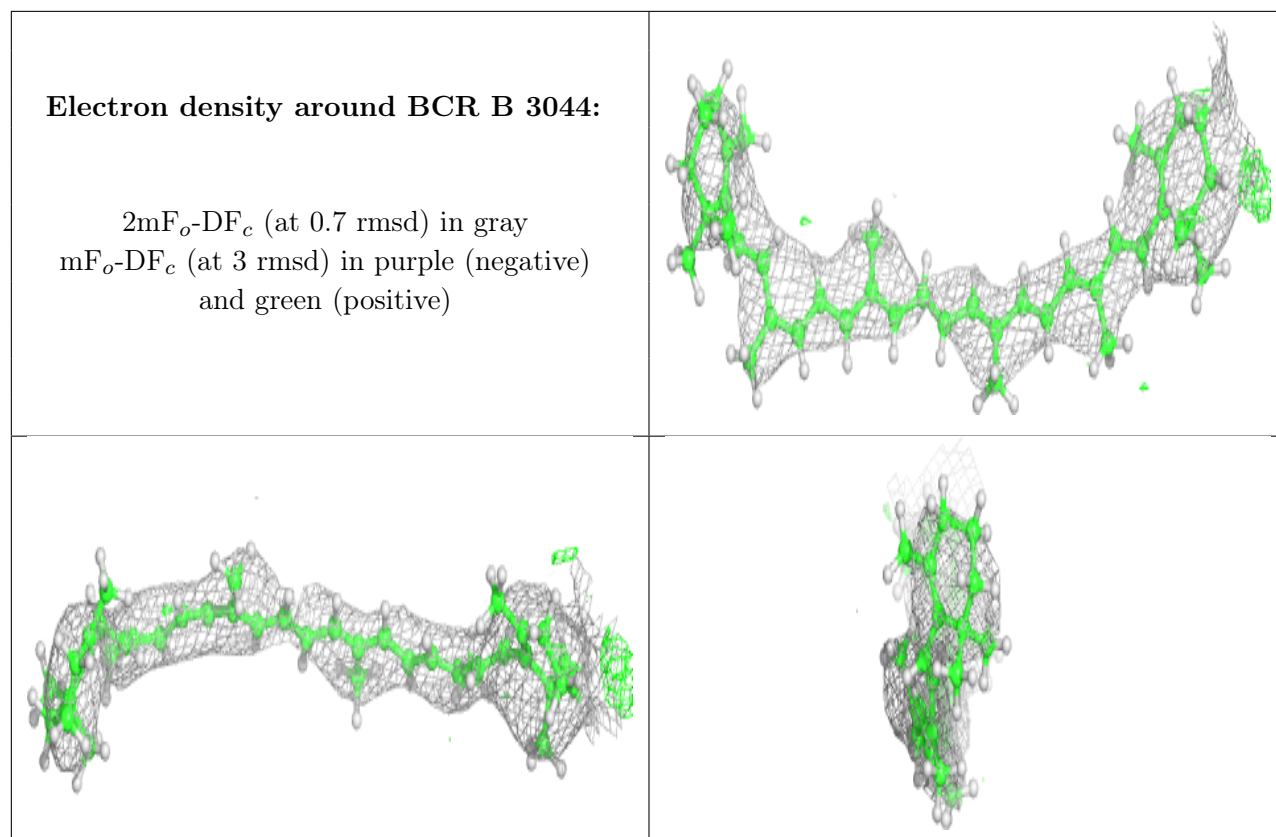




**Electron density around CLA A 826:**

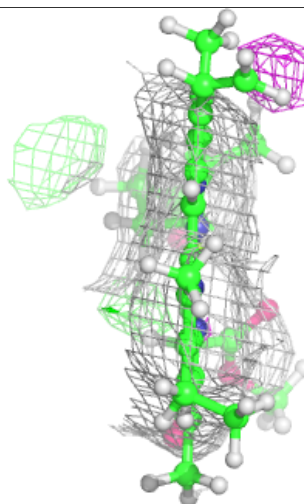
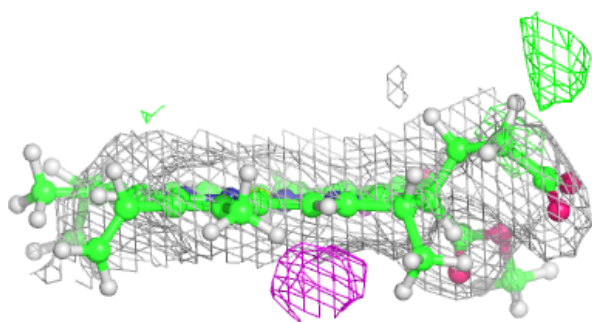
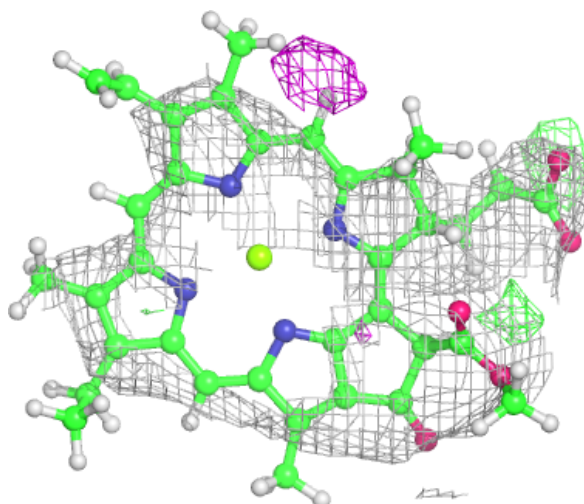
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





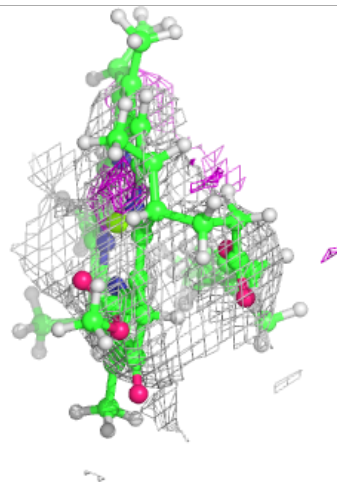
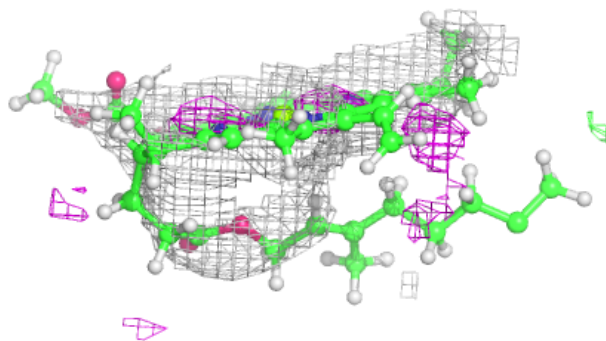
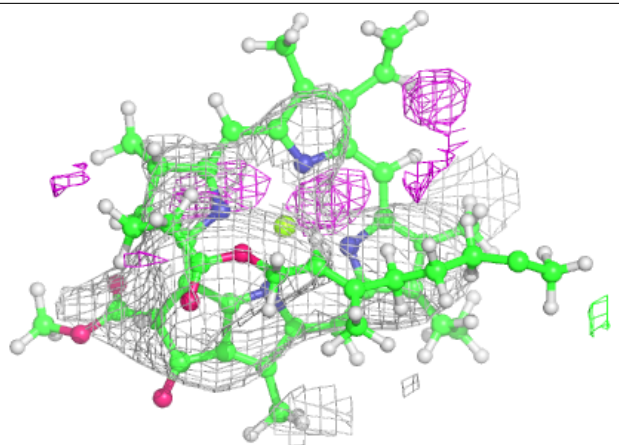
**Electron density around CLA F 202:**

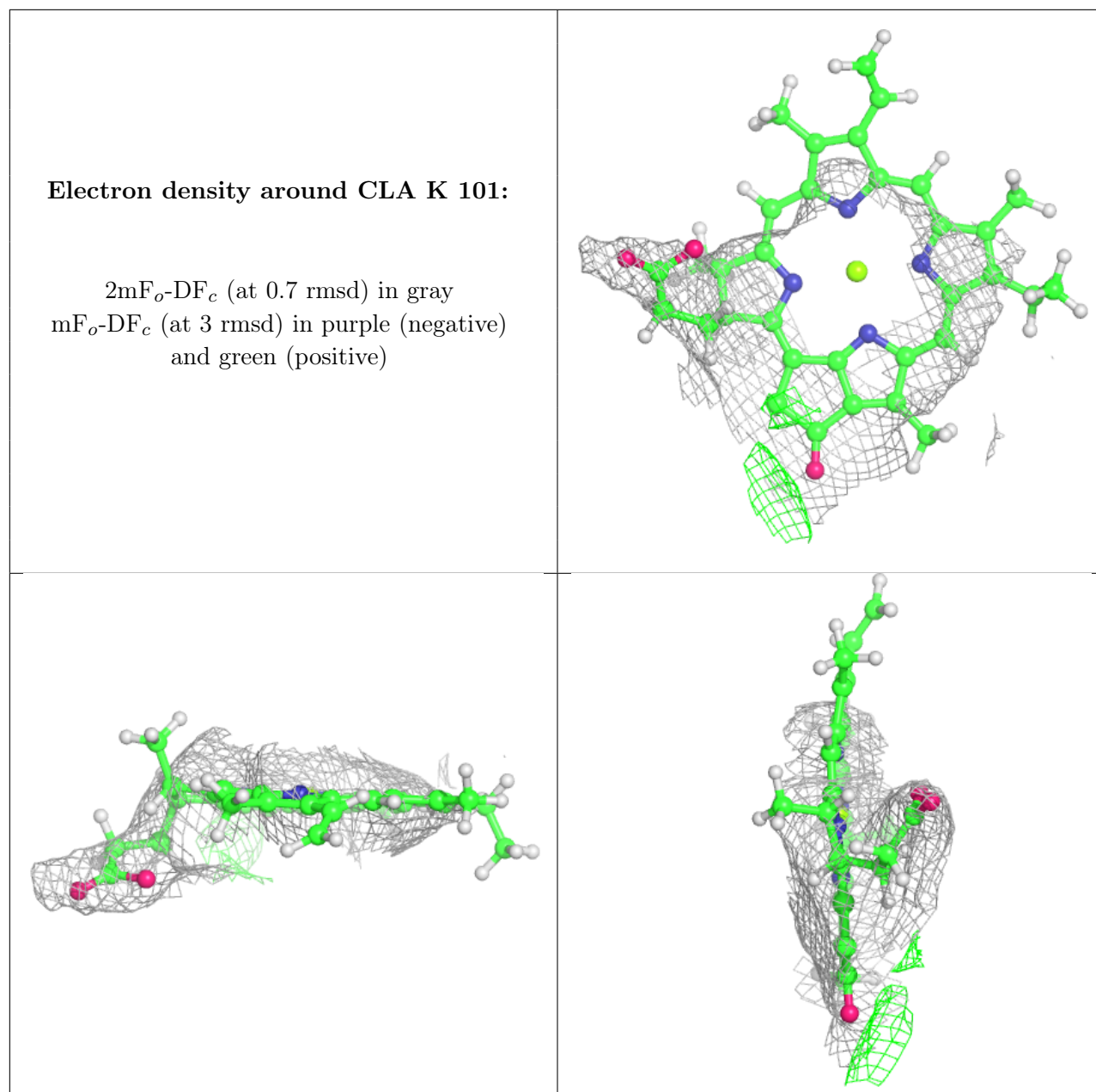
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



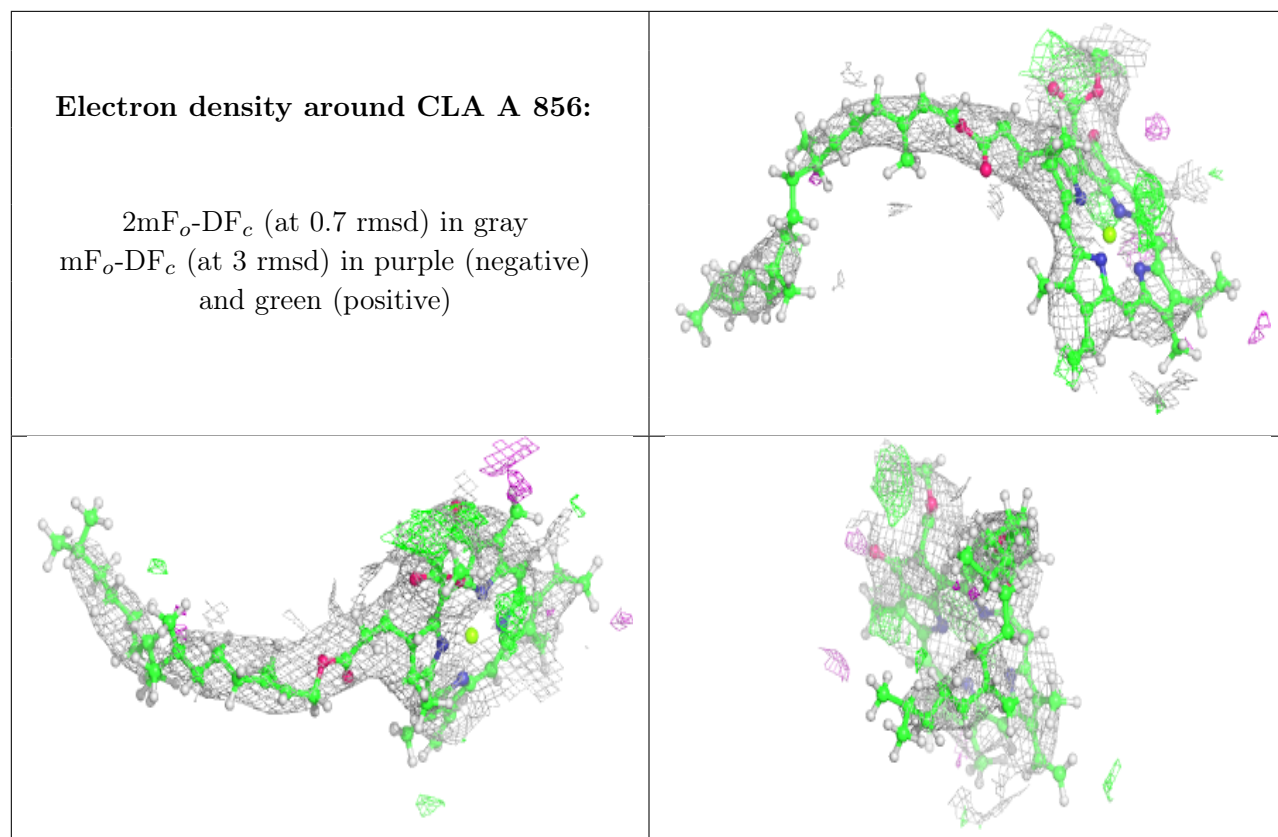
**Electron density around CLA A 818:**

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

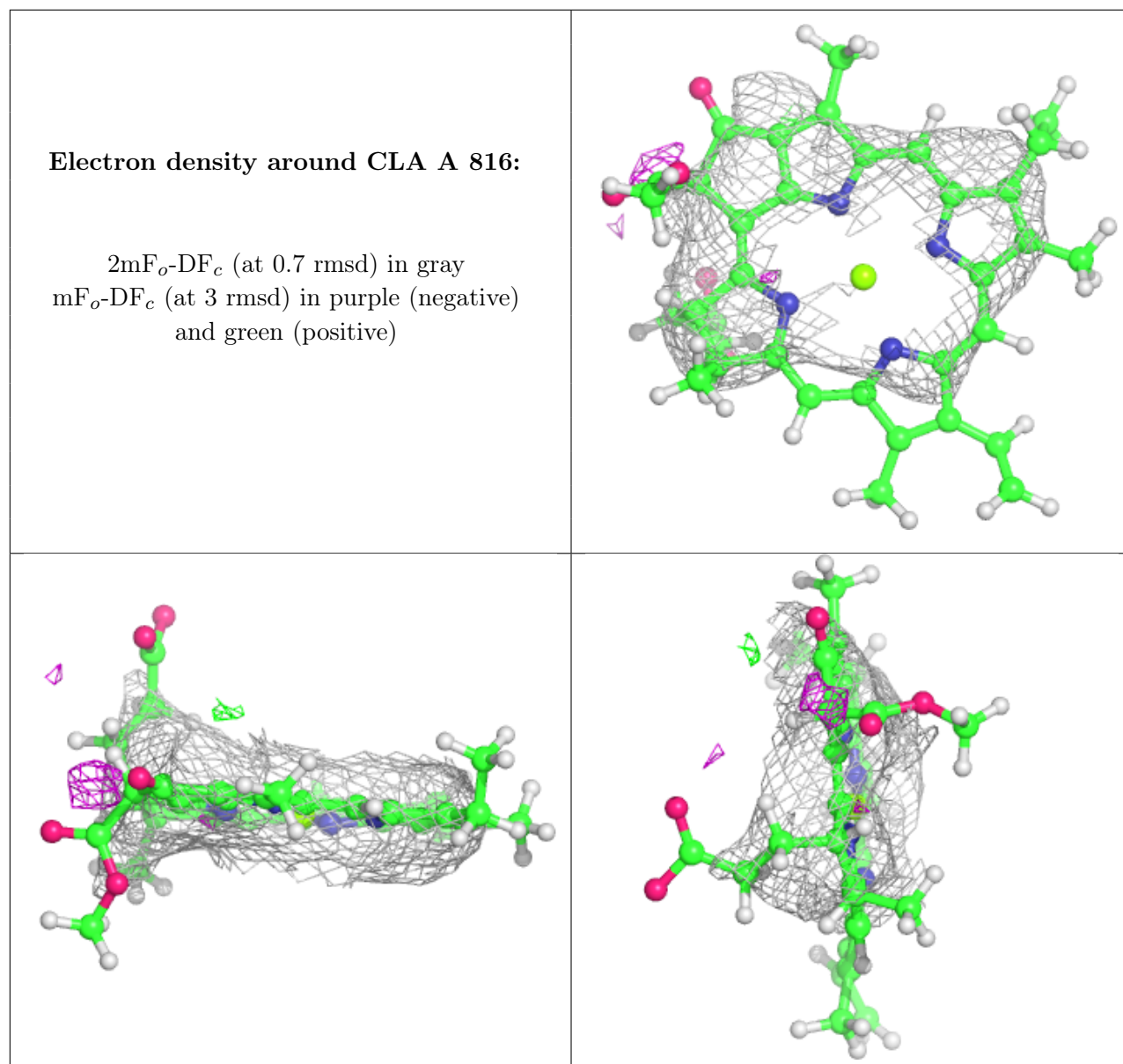


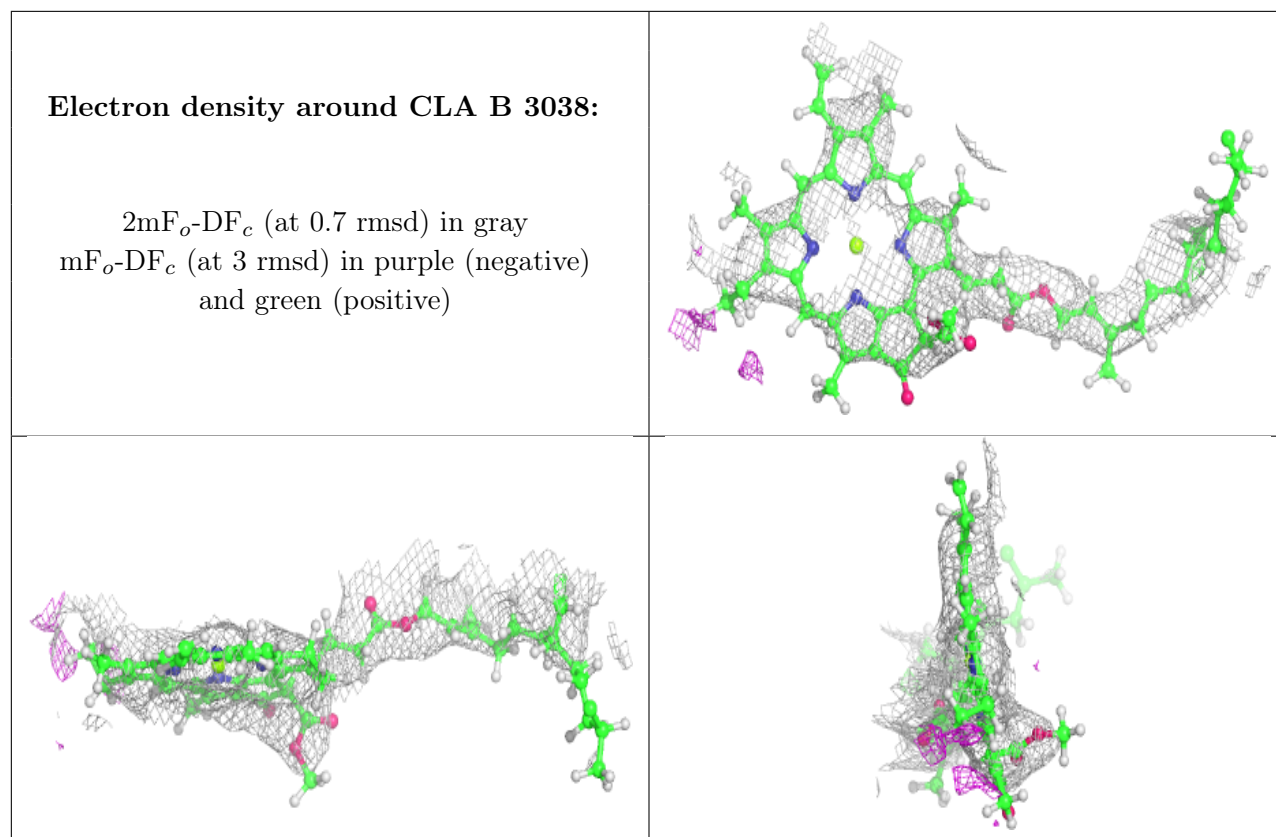






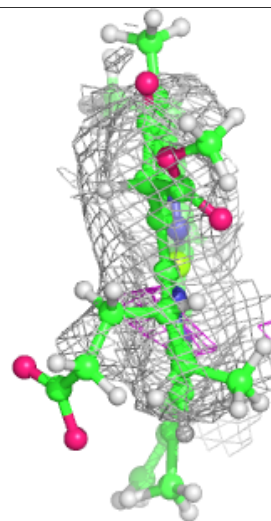
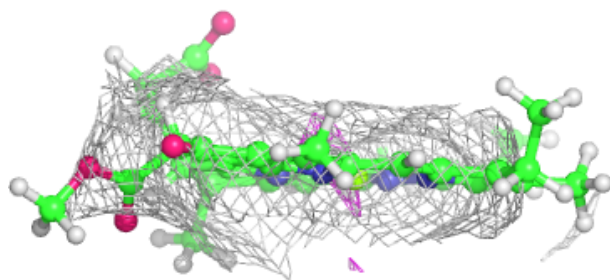
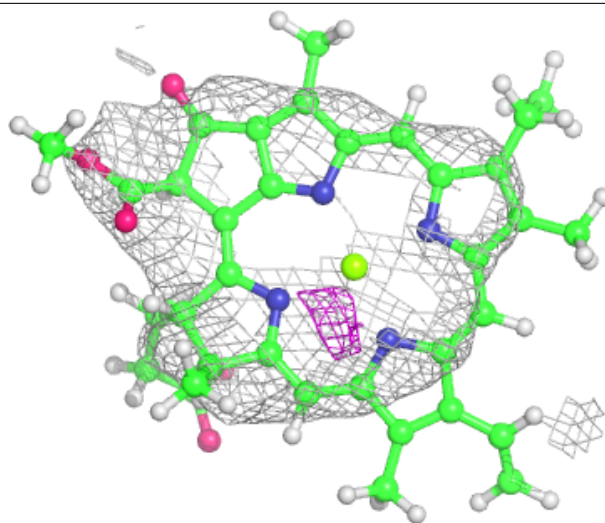


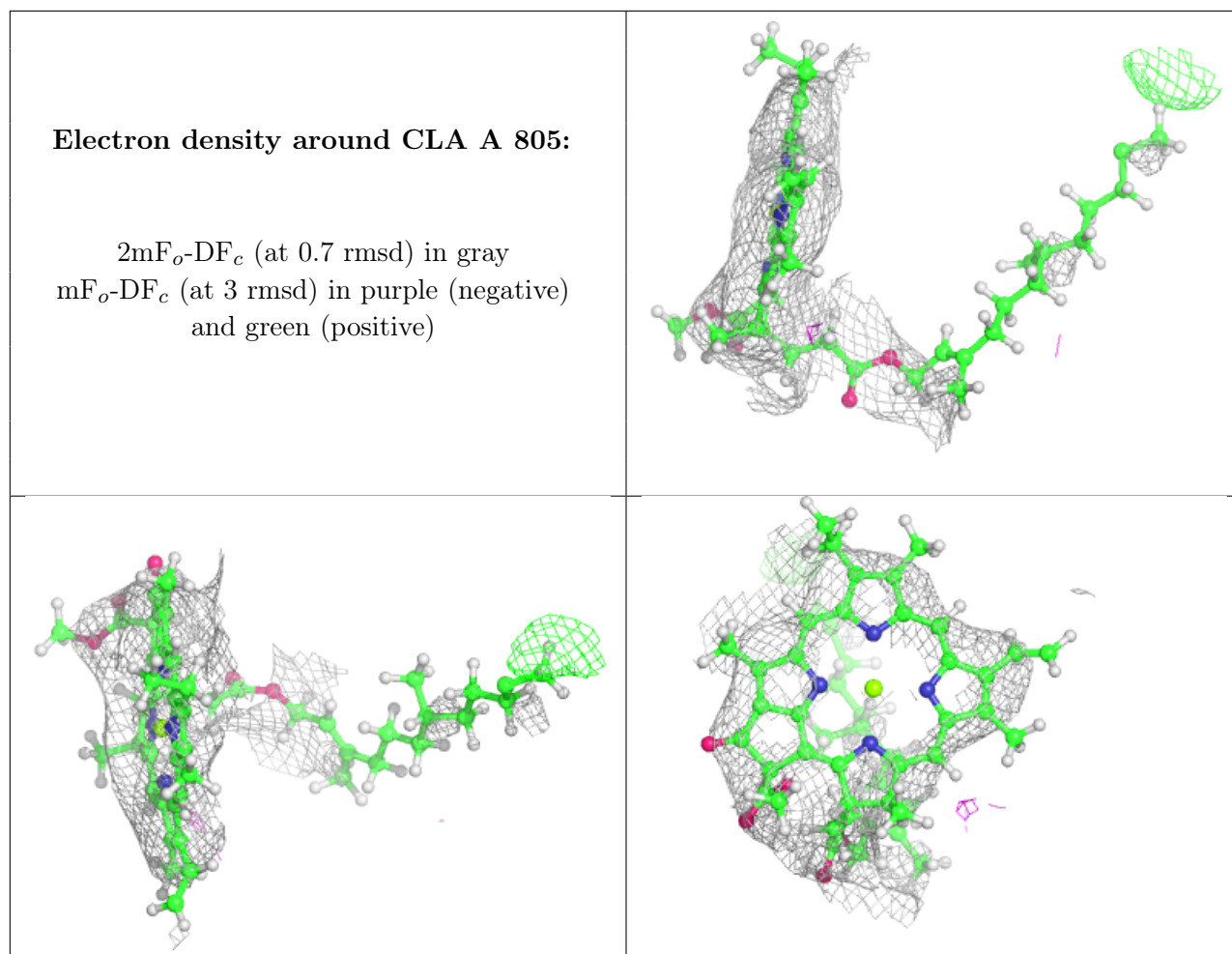




**Electron density around CLA J 101:**

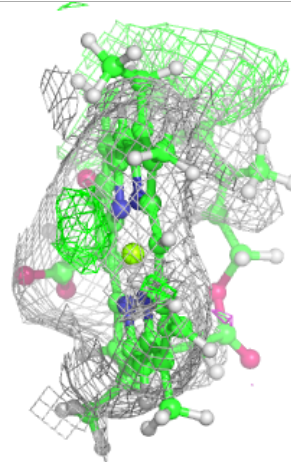
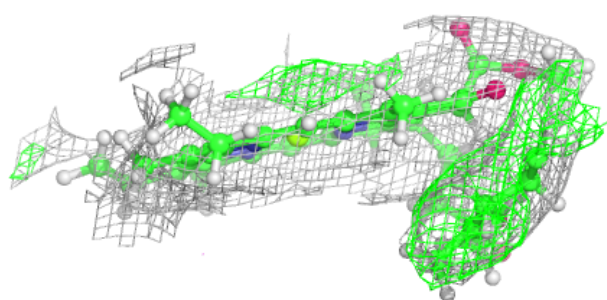
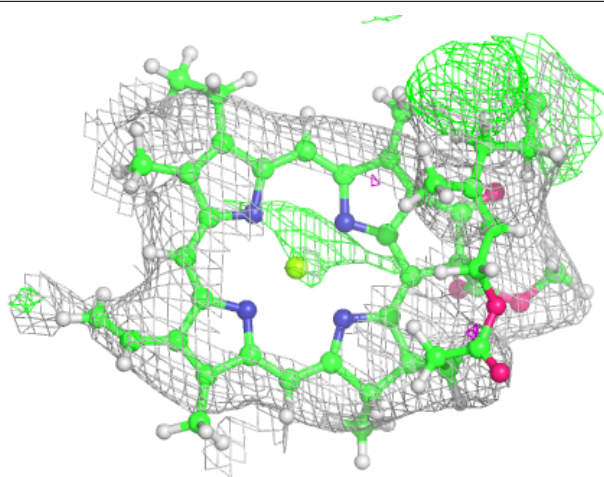
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

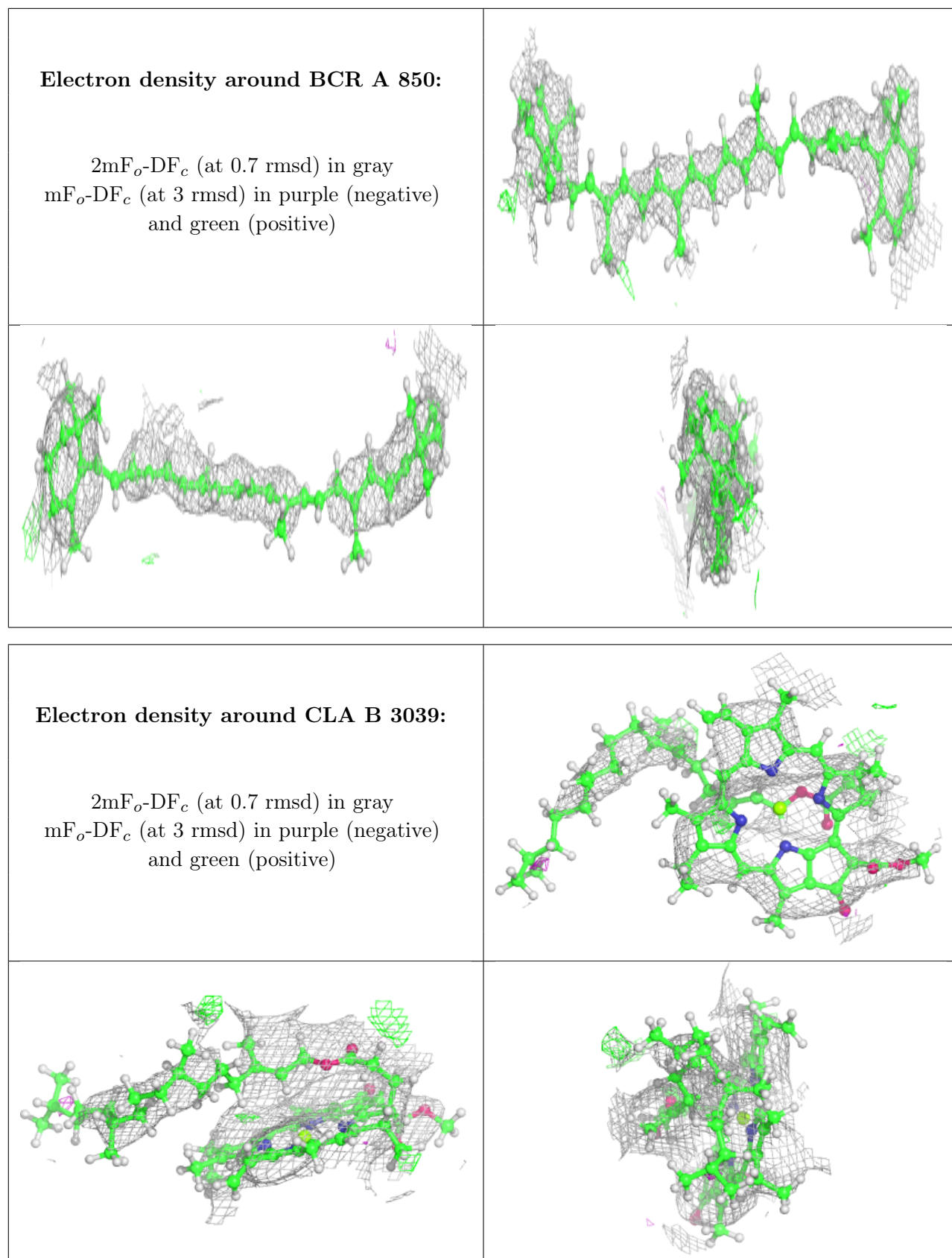




**Electron density around CLA A 845:**

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

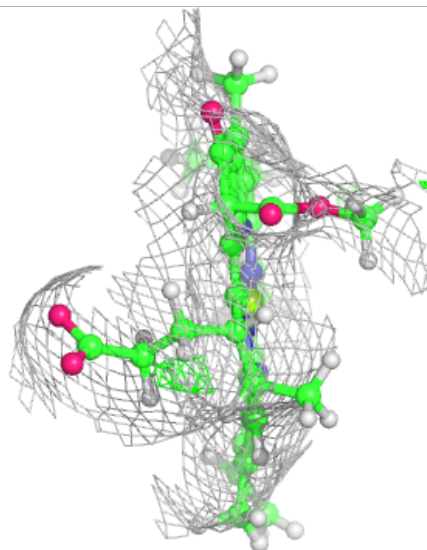
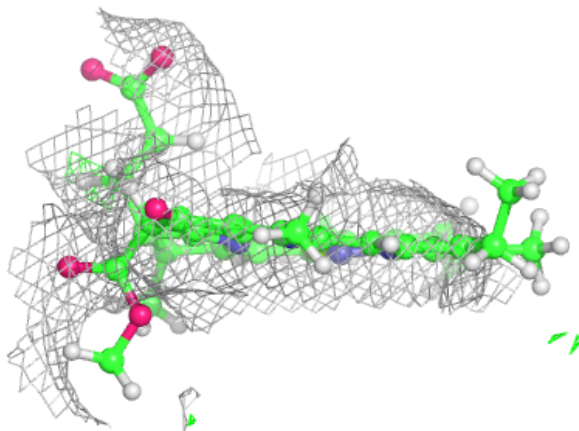
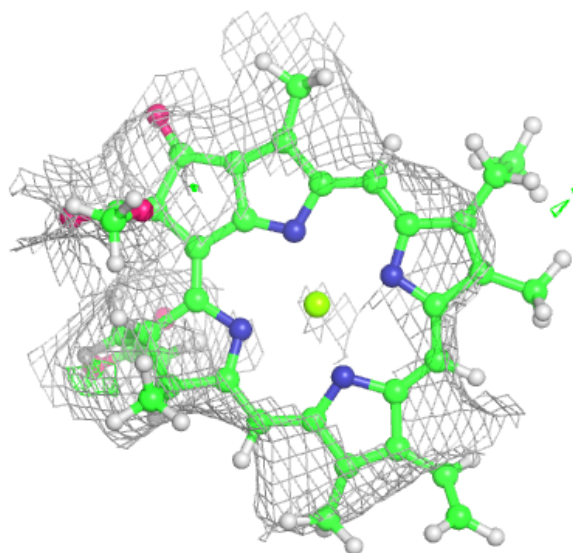






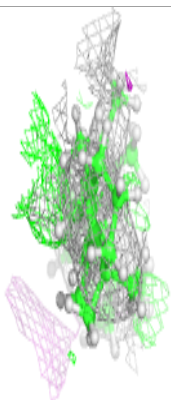
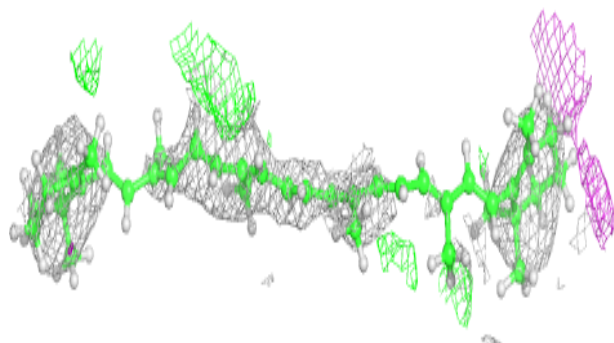
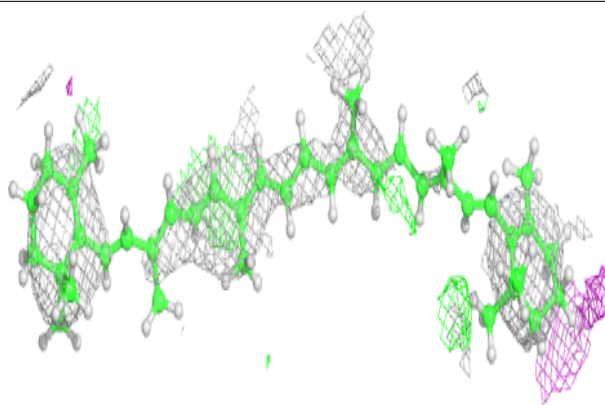
**Electron density around CLA A 815:**

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

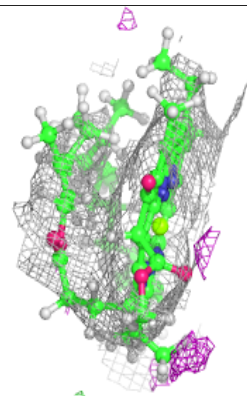
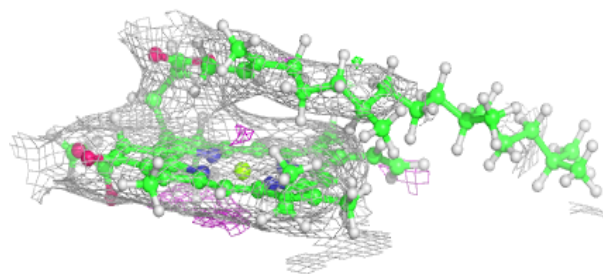
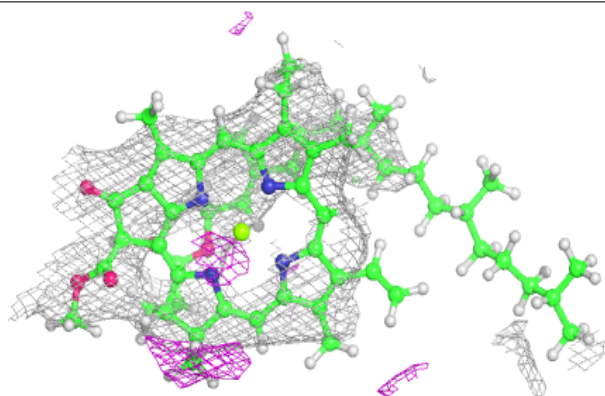


**Electron density around BCR B 3046:**

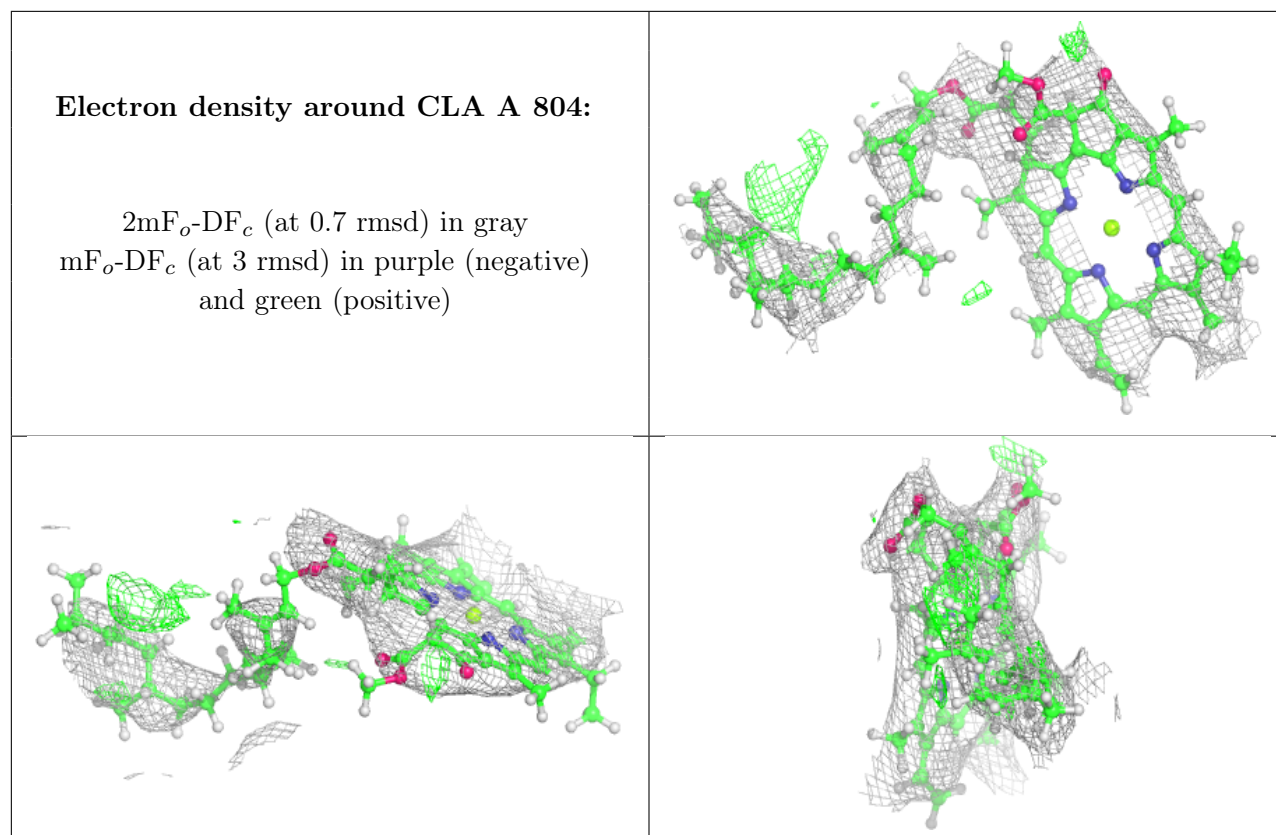
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

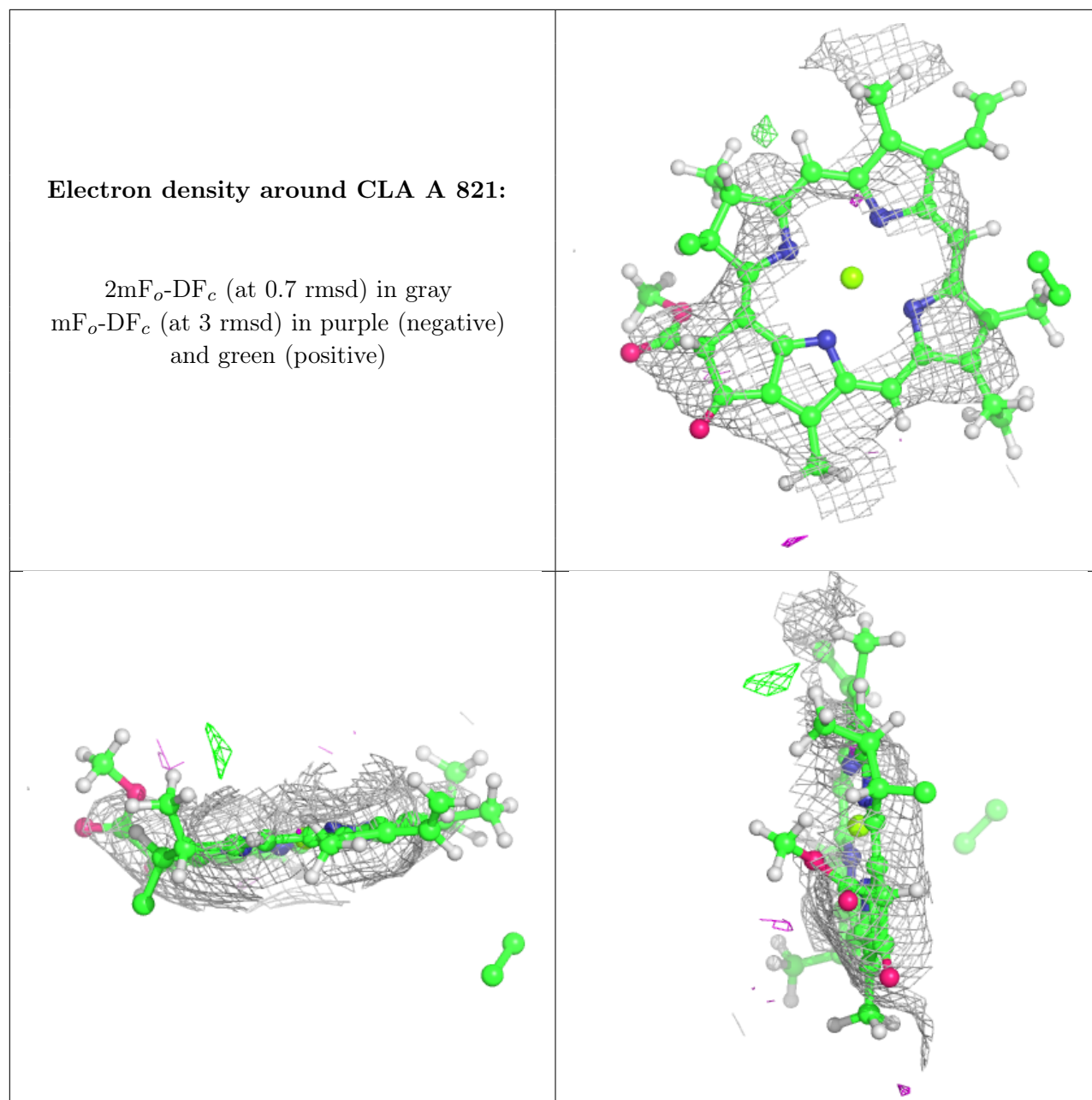
**Electron density around CLA A 841:**

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



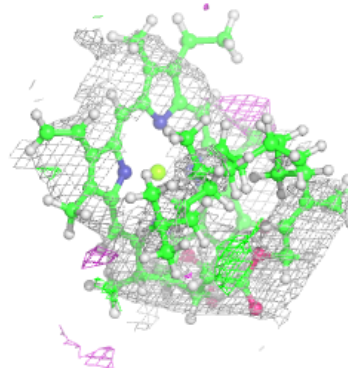
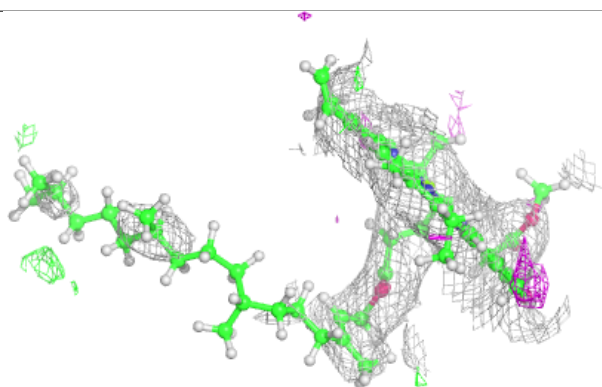
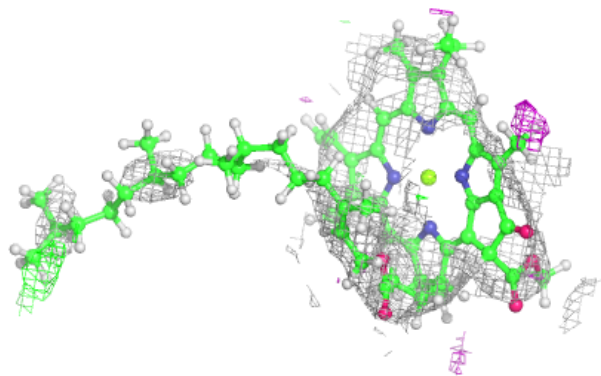




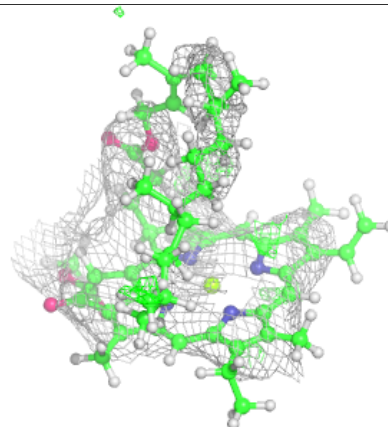
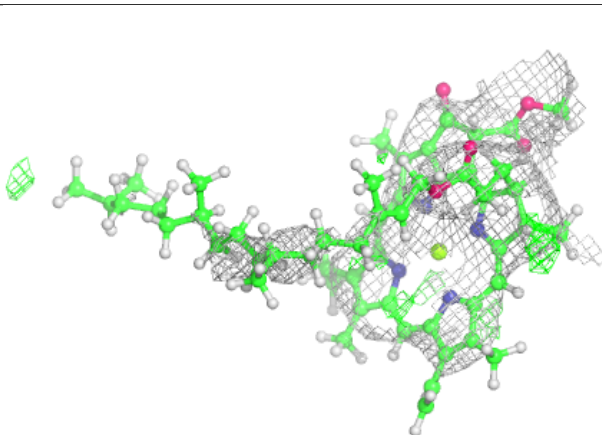
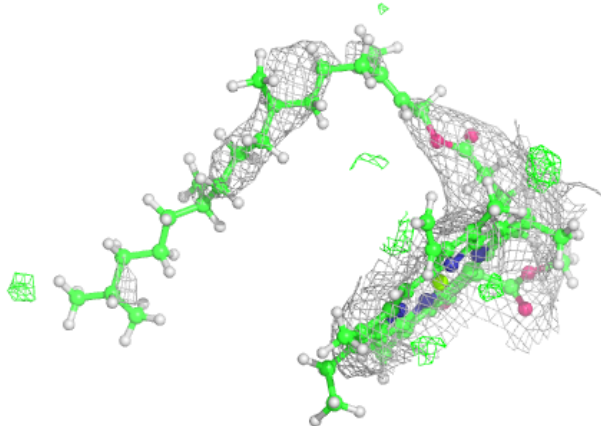


**Electron density around CLA B 3015:**

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

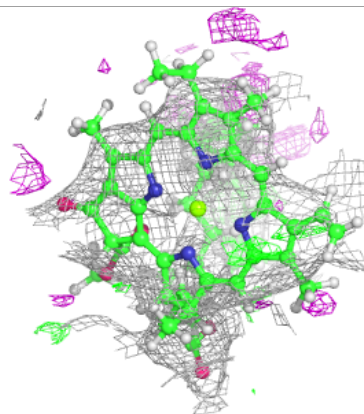
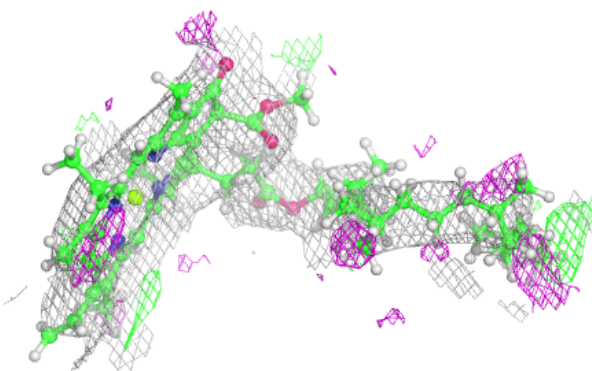
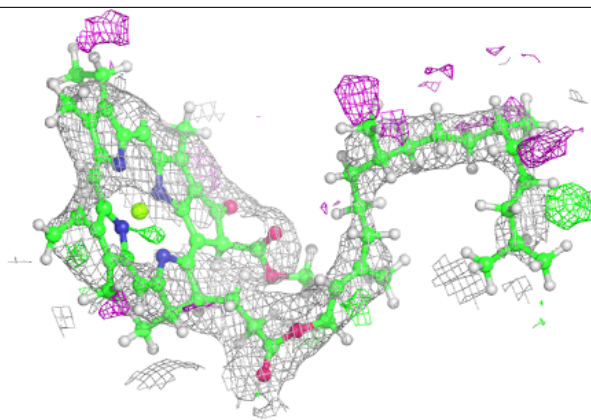
**Electron density around CLA B 3020:**

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



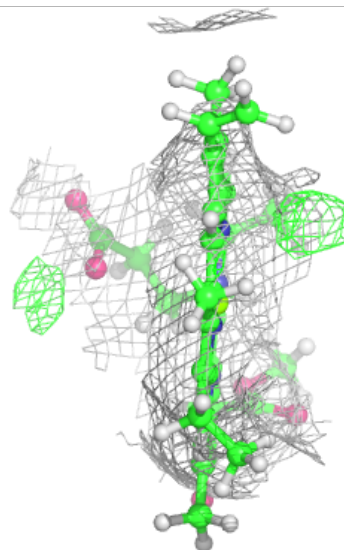
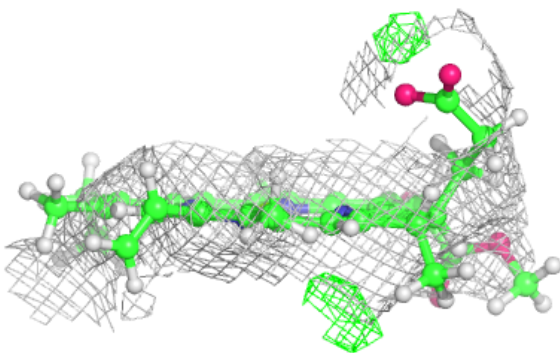
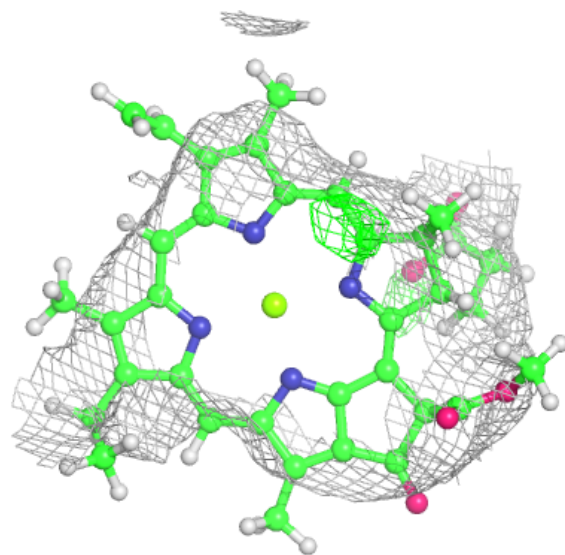
**Electron density around CL0 A 801:**

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



**Electron density around CLA A 811:**

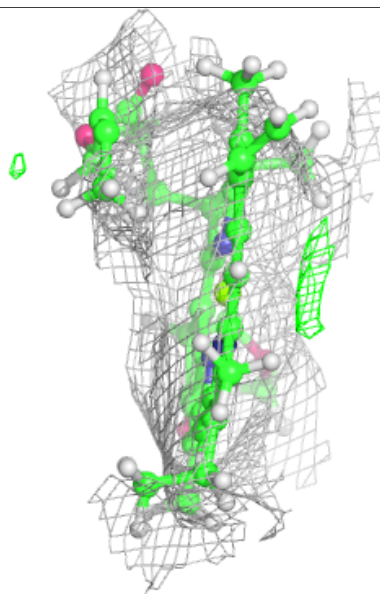
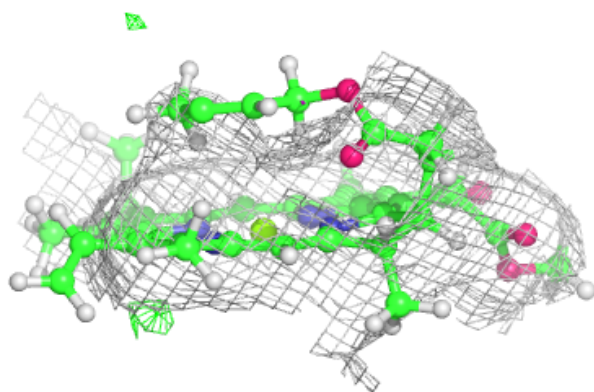
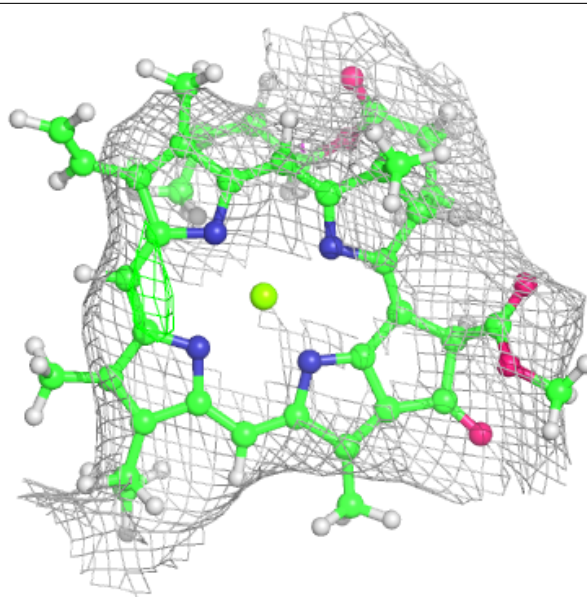
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





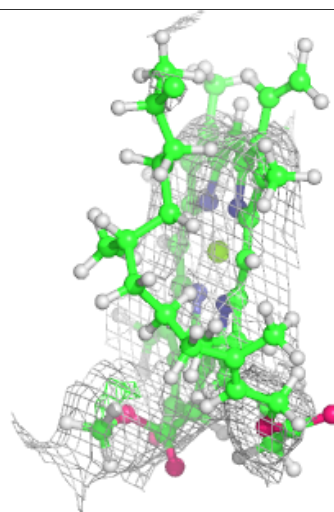
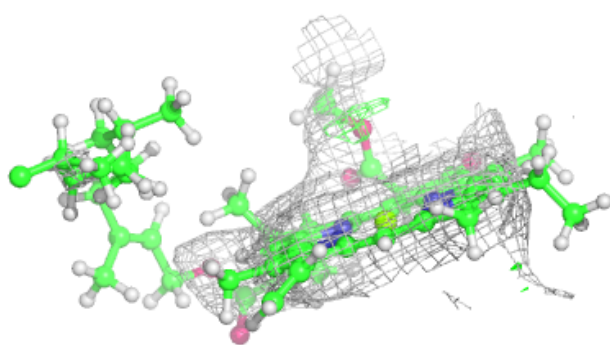
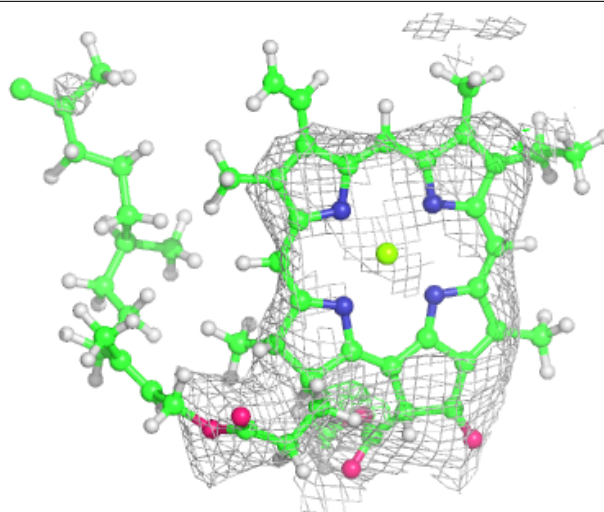
**Electron density around CLA A 823:**

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



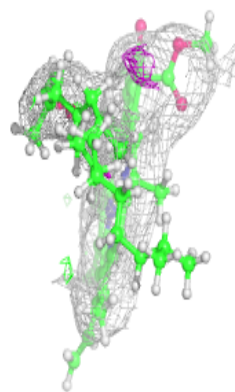
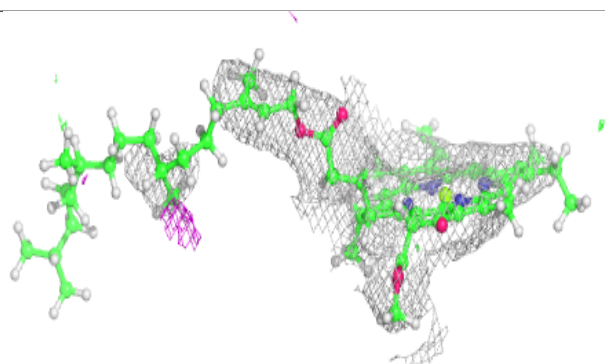
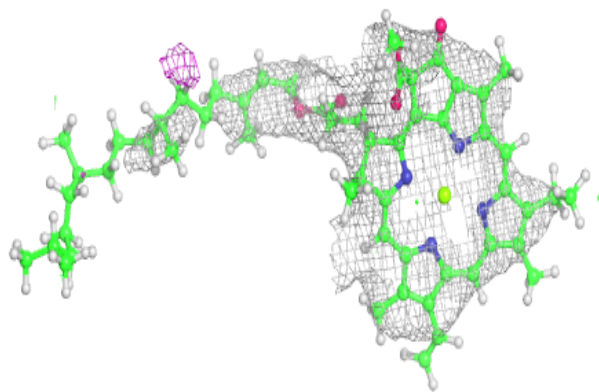
**Electron density around CLA A 814:**

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

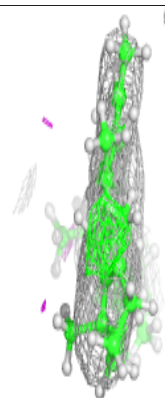
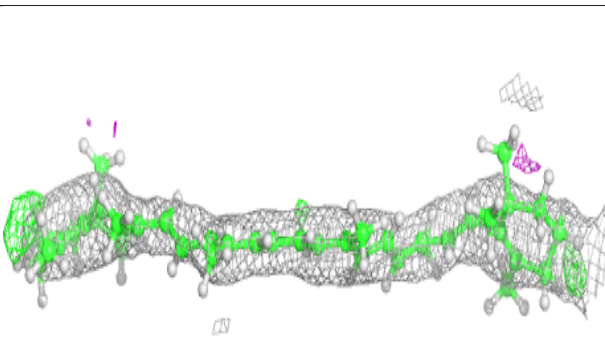
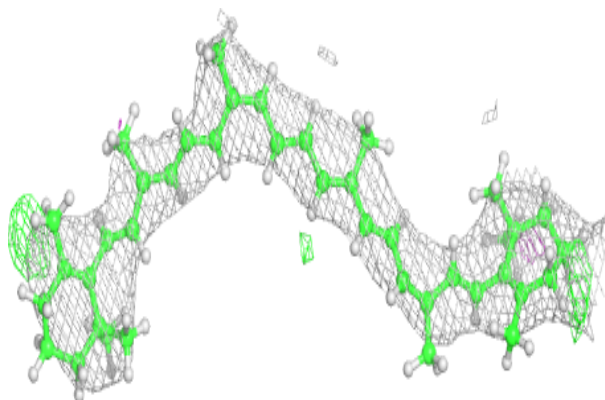


**Electron density around CLA A 827:**

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

**Electron density around BCR A 851:**

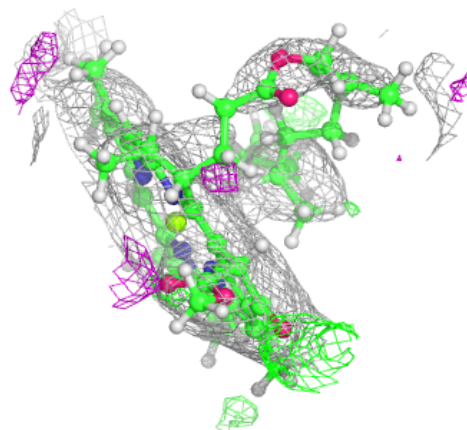
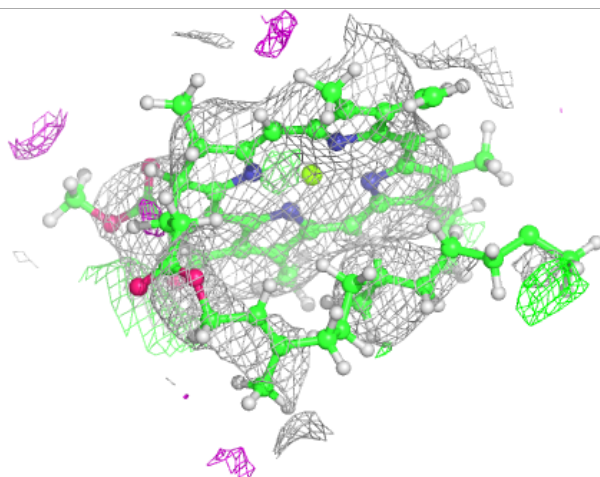
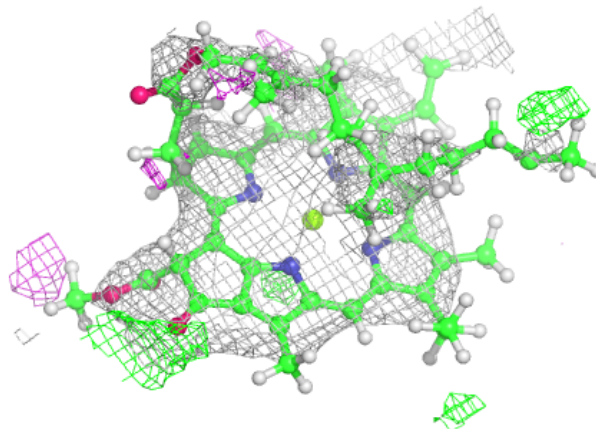
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

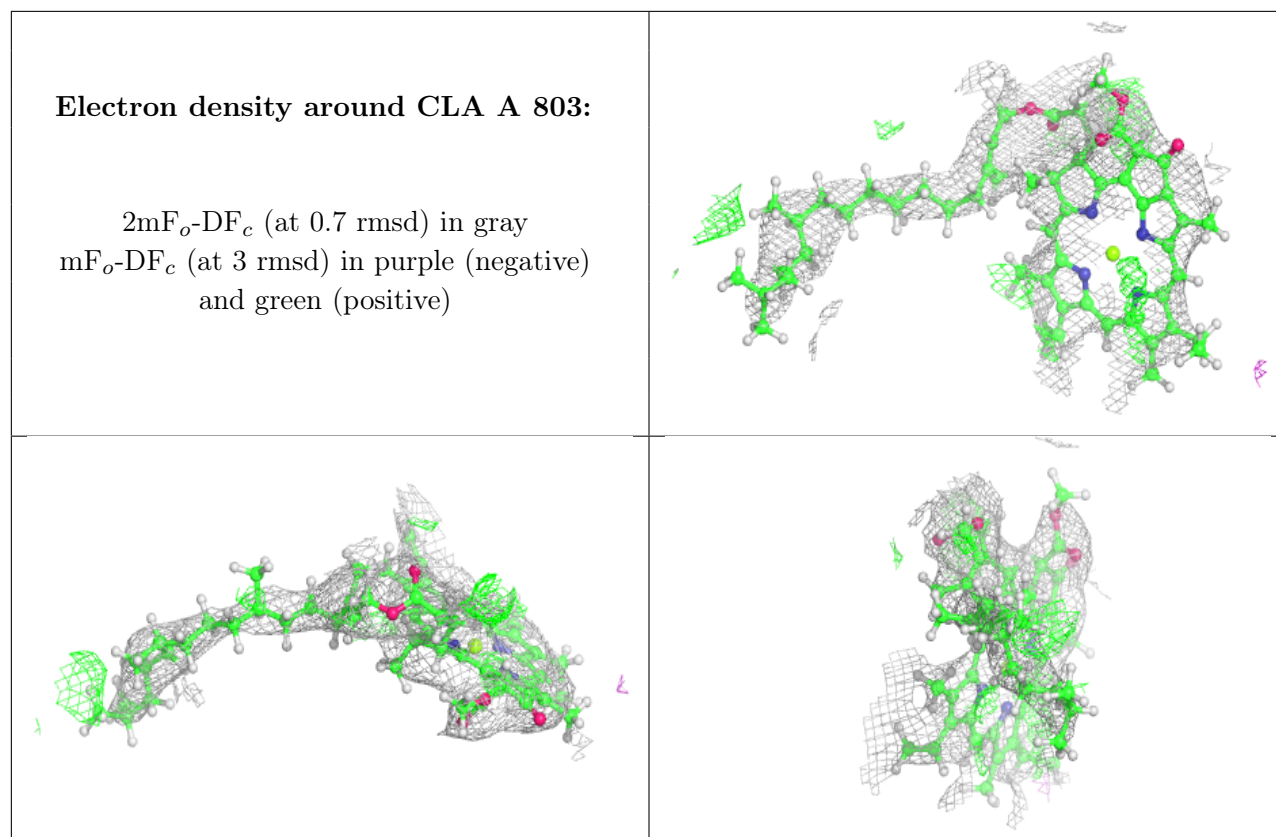




**Electron density around CLA B 3018:**

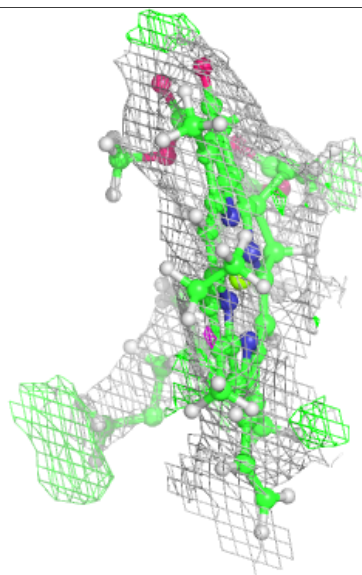
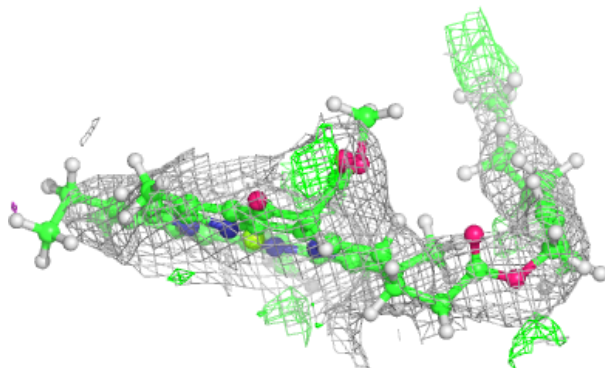
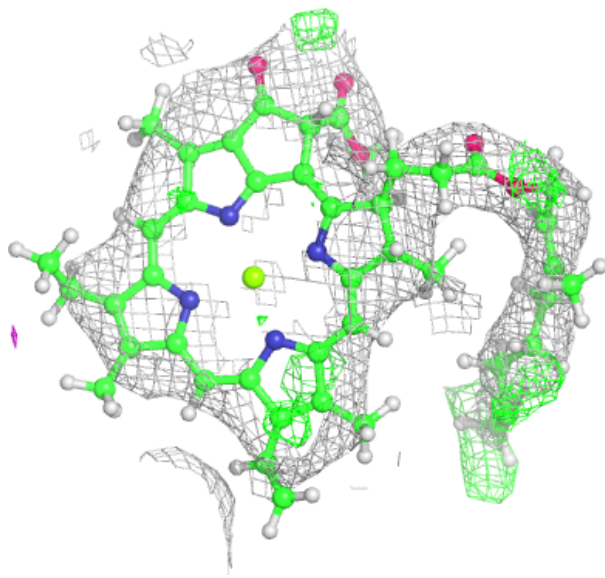
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

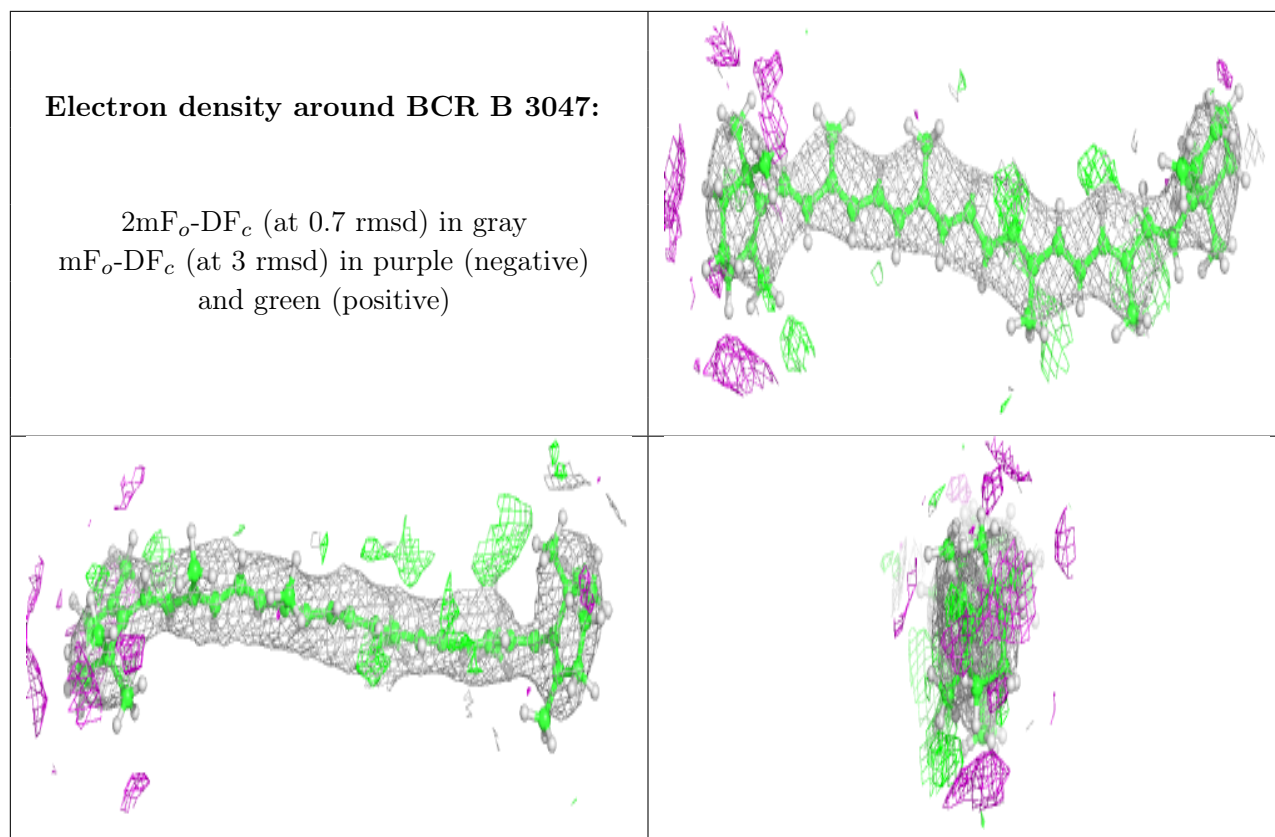


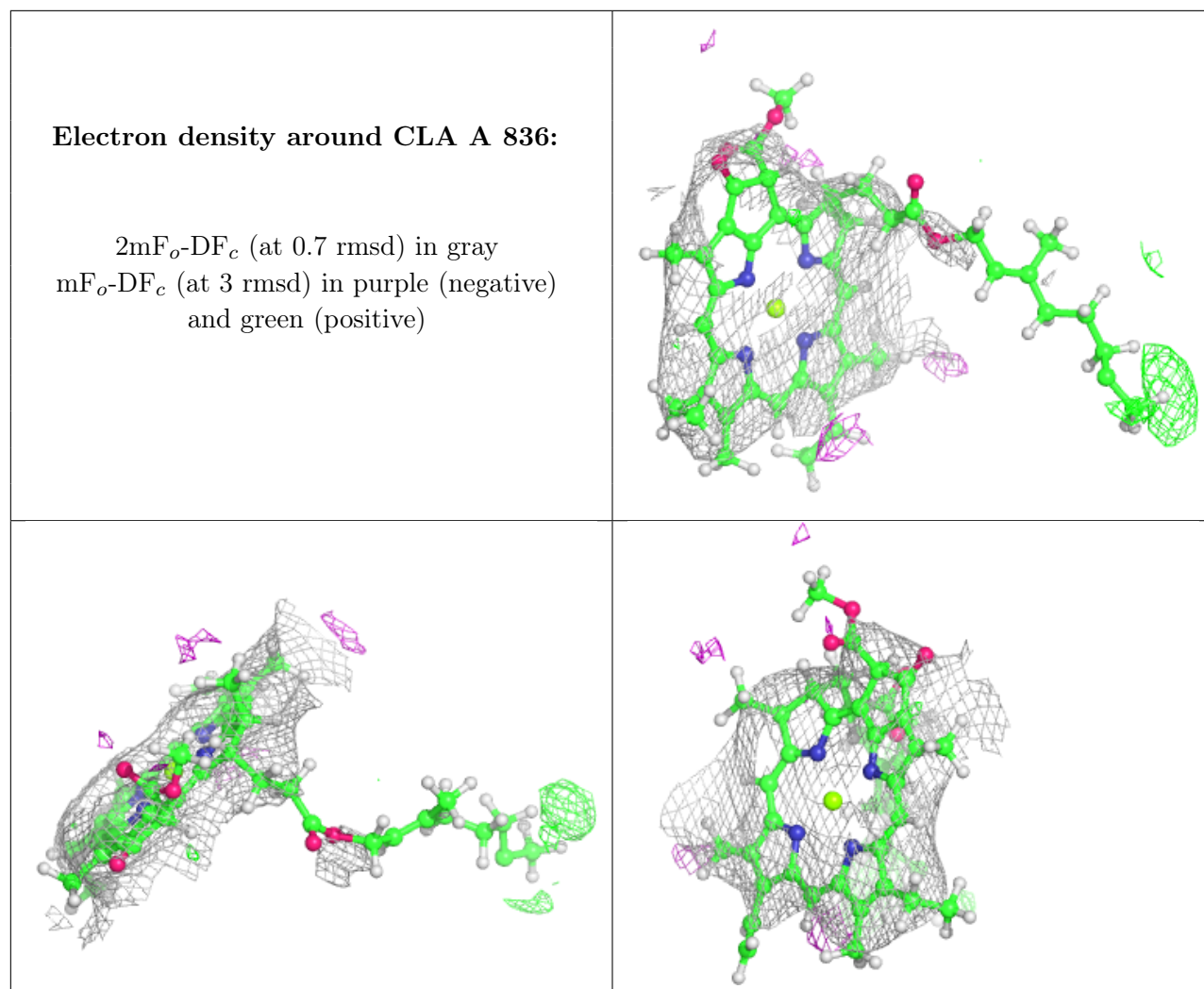


**Electron density around CLA B 3025:**

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

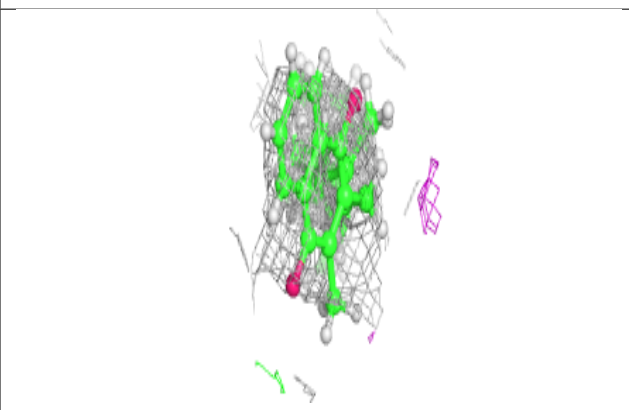
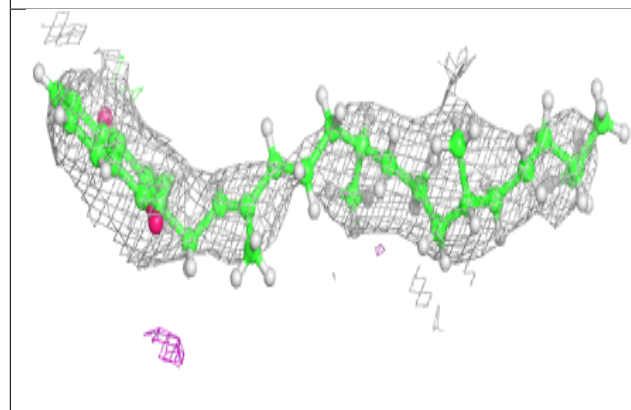
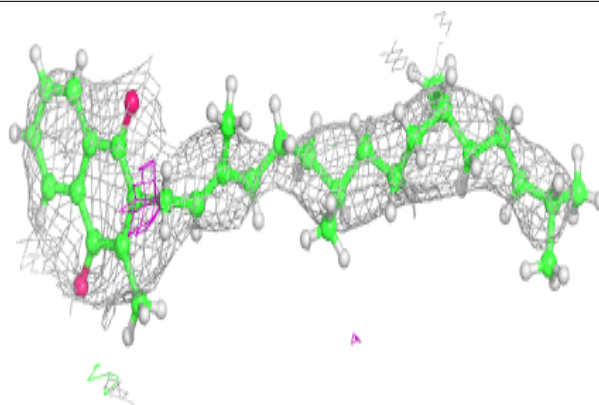




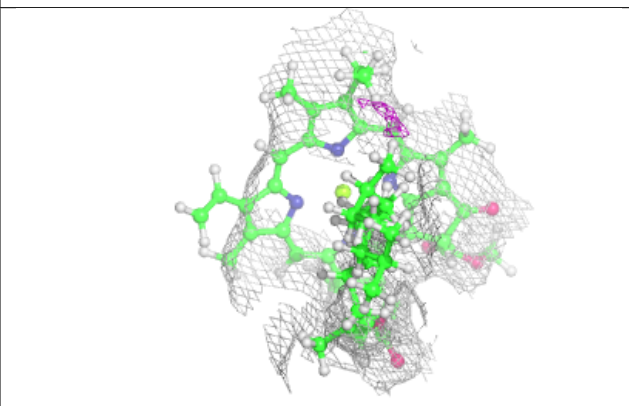
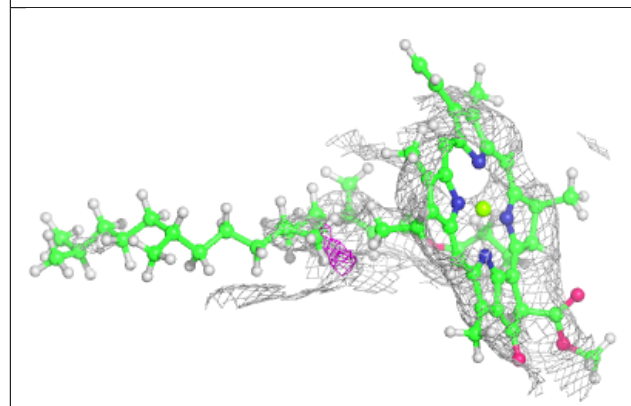
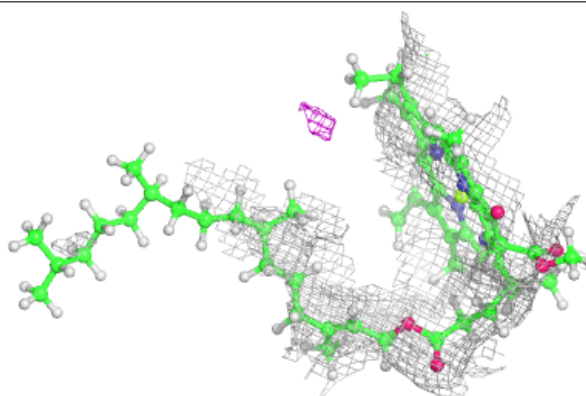


**Electron density around PQN A 846:**

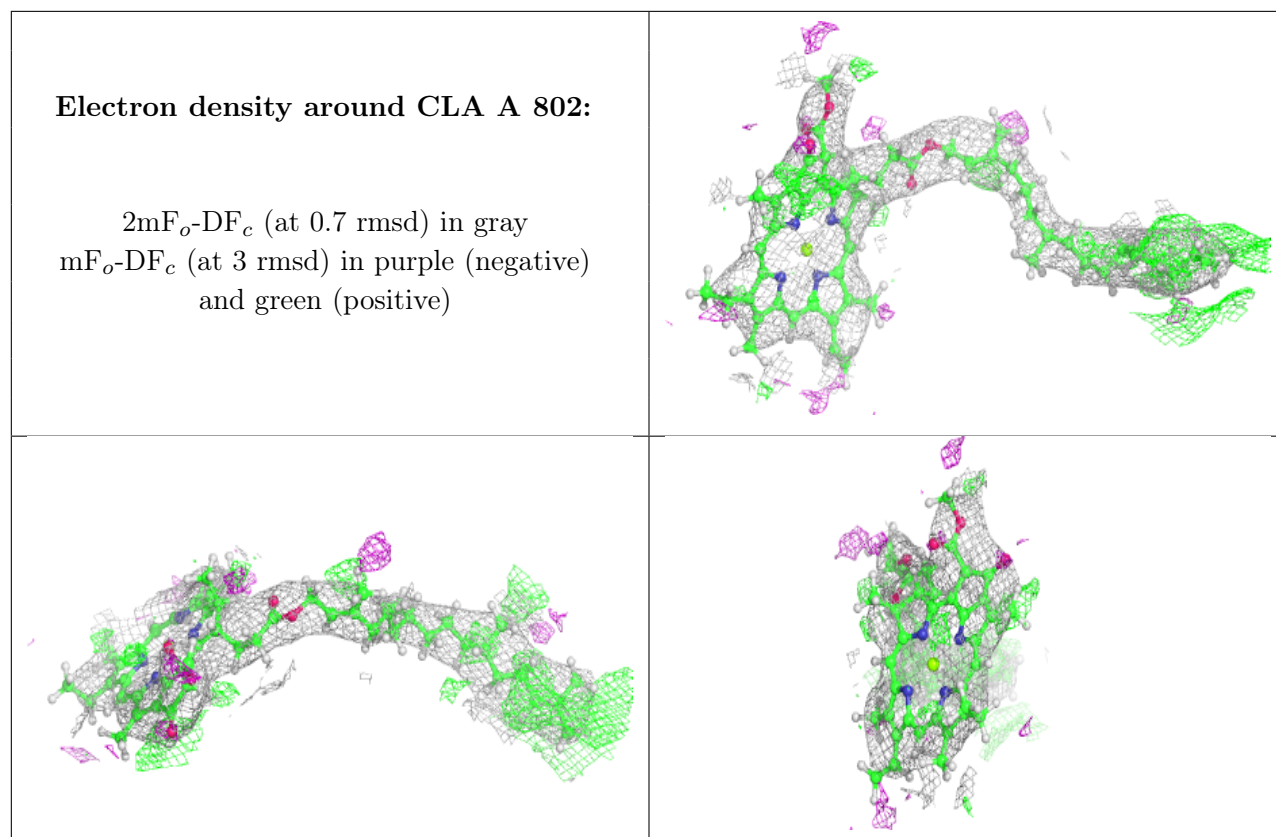
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around CLA A 812:**

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

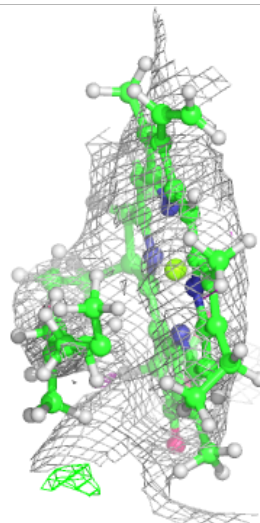
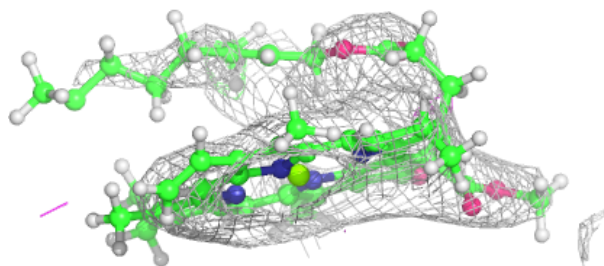
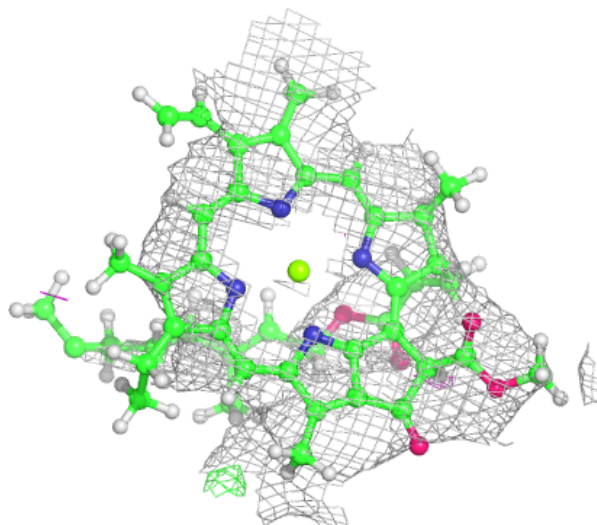






**Electron density around CLA A 813:**

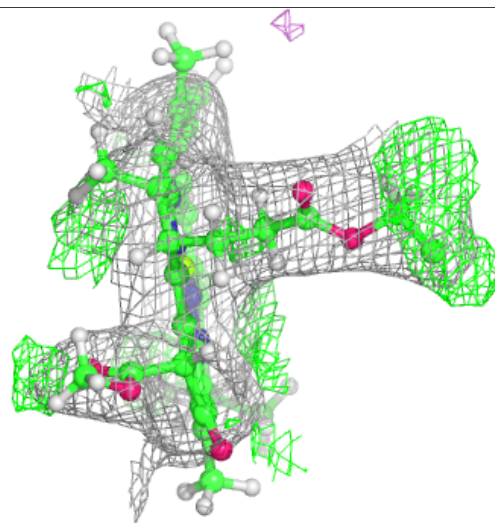
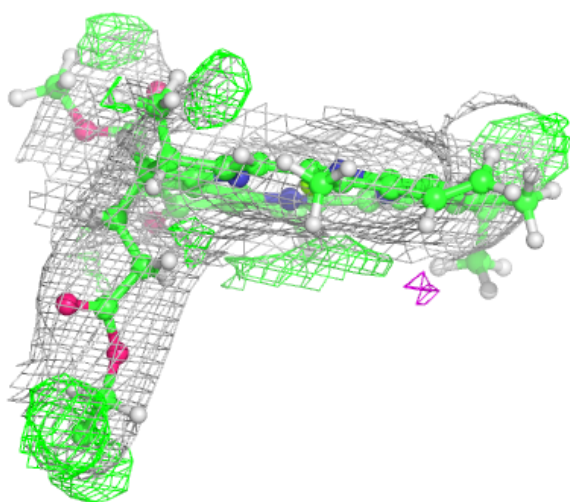
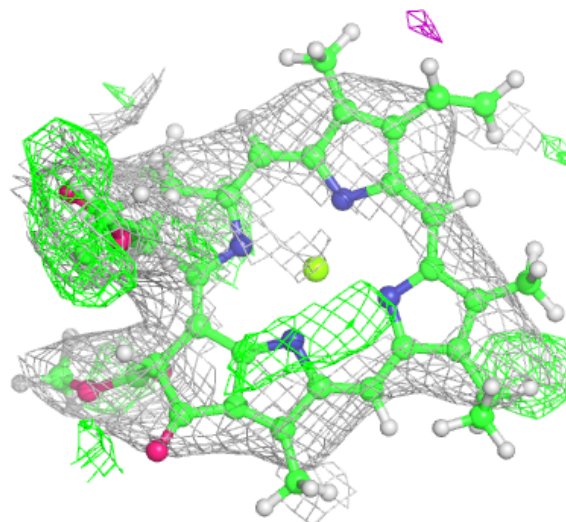
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

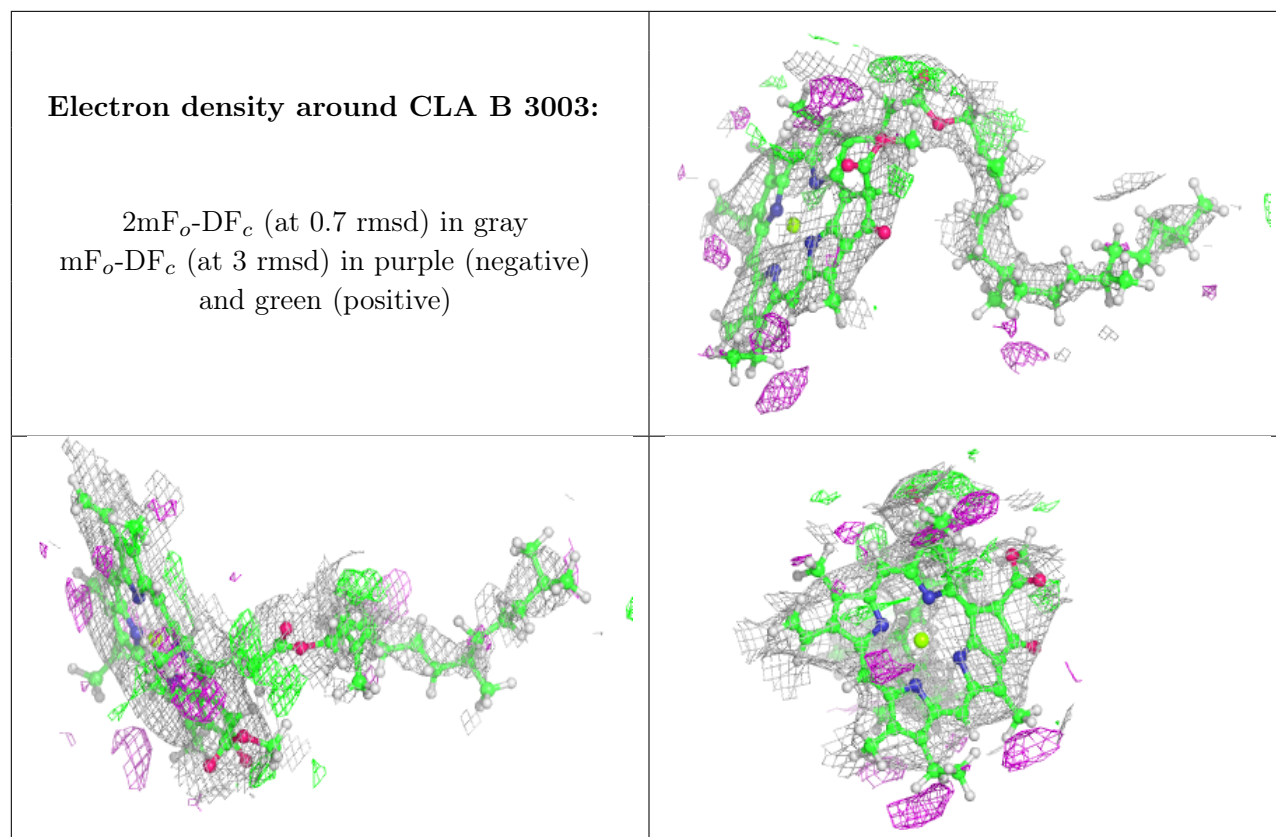




**Electron density around CLA B 3040:**

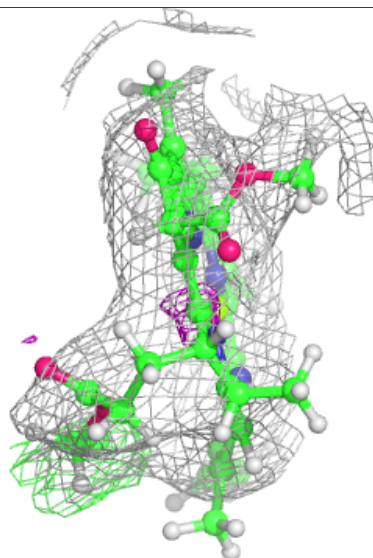
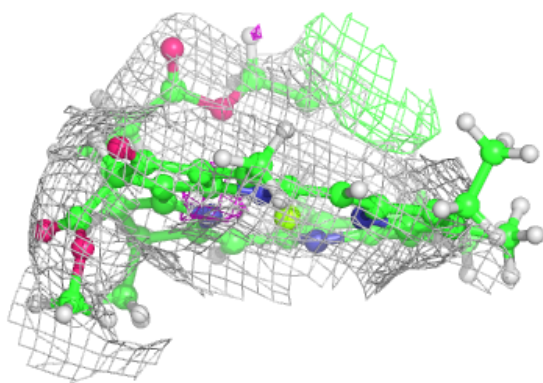
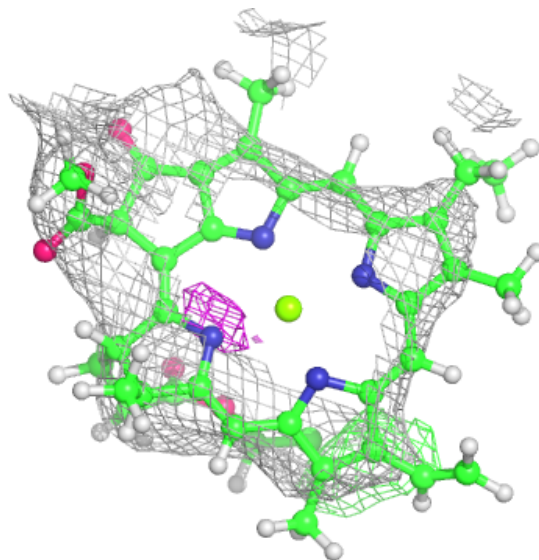
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





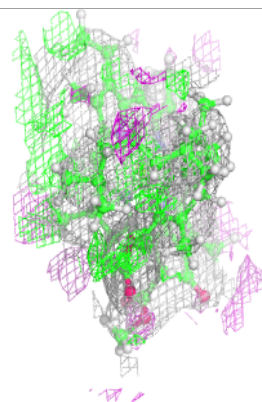
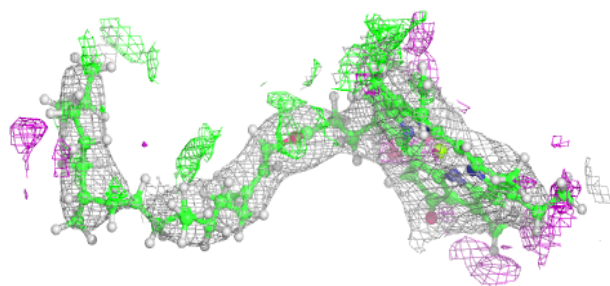
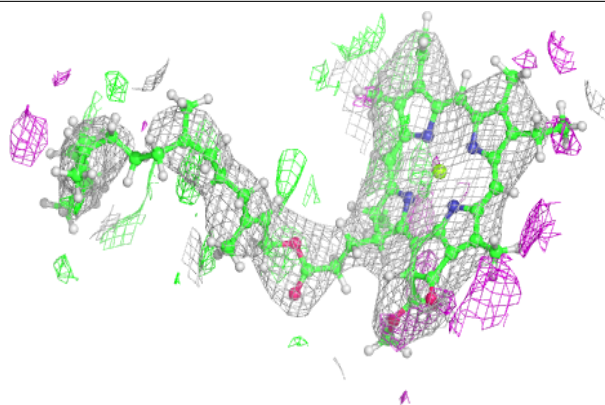
**Electron density around CLA B 3021:**

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

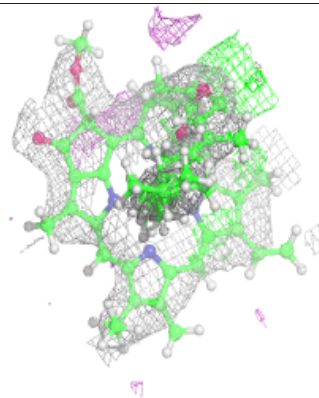
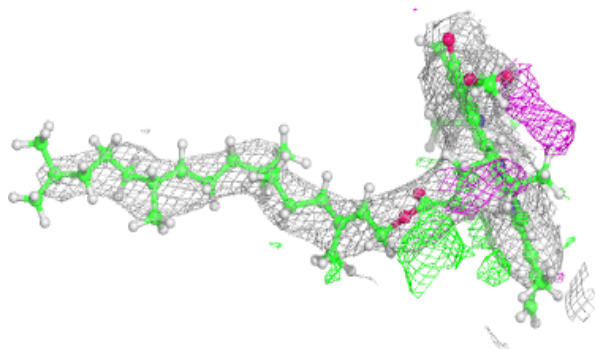
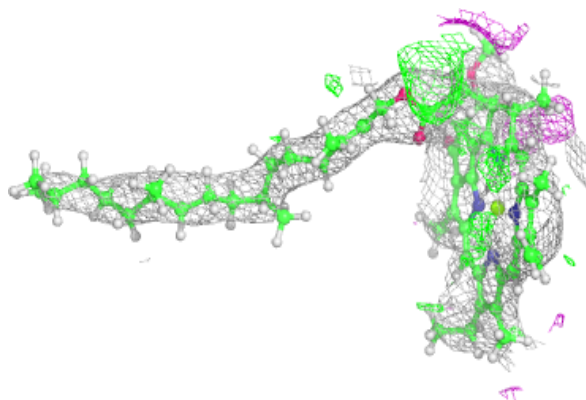


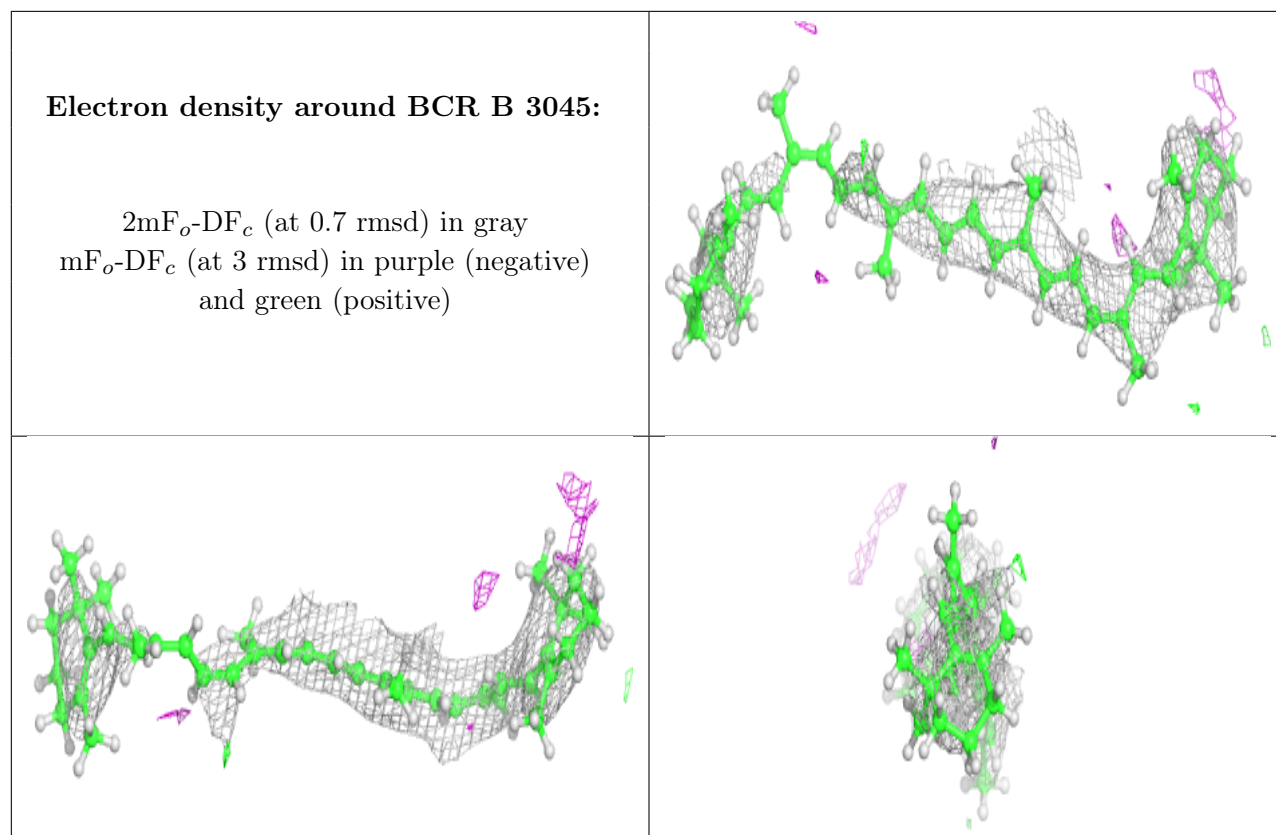
**Electron density around CLA B 3010:**

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

**Electron density around CLA B 3029:**

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

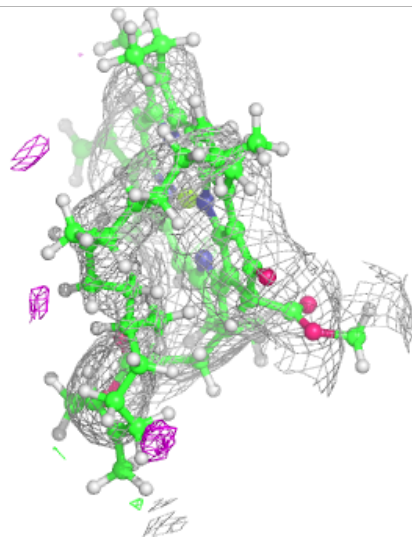
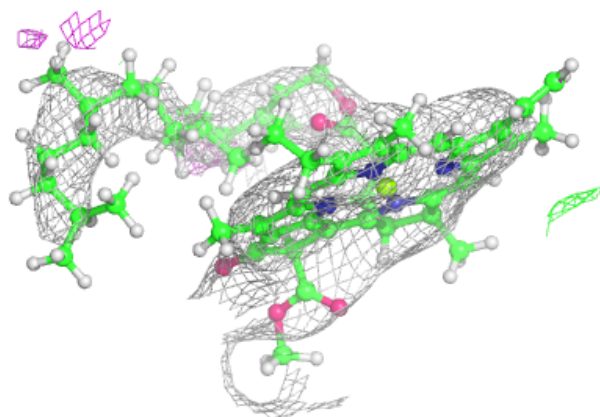
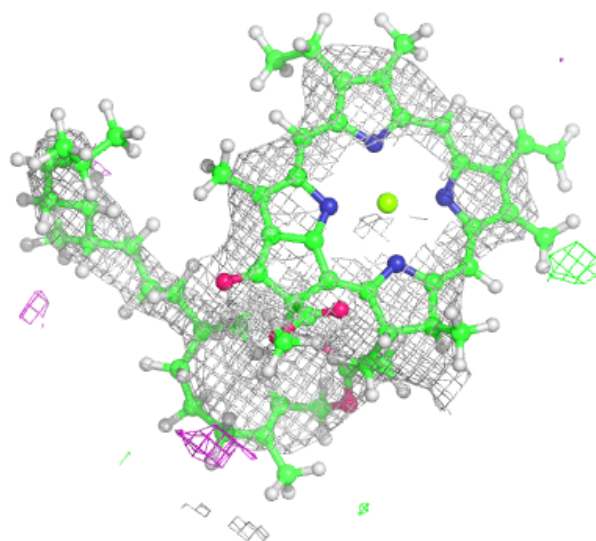






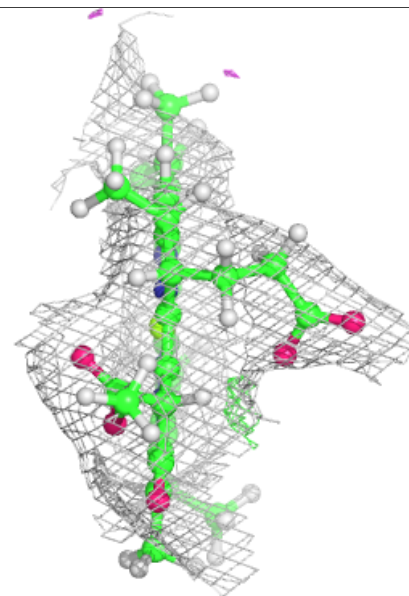
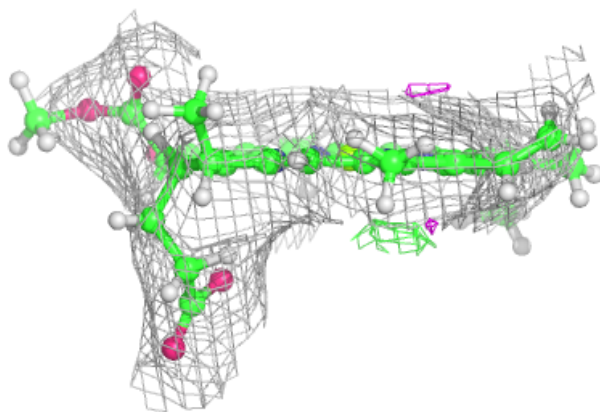
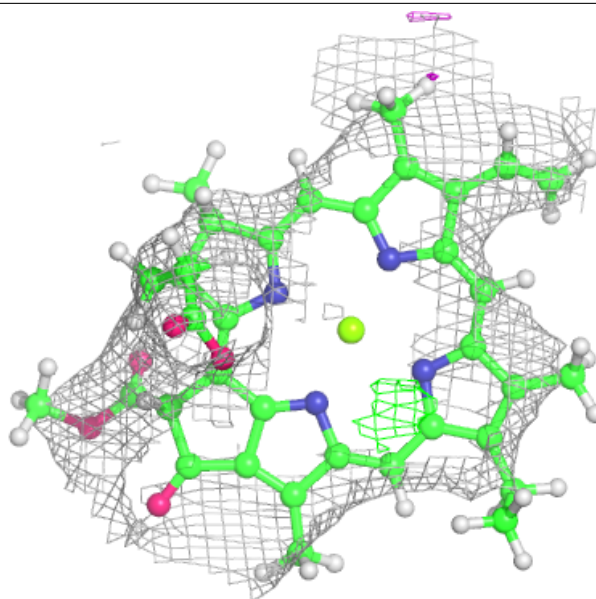
**Electron density around CLA B 3033:**

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



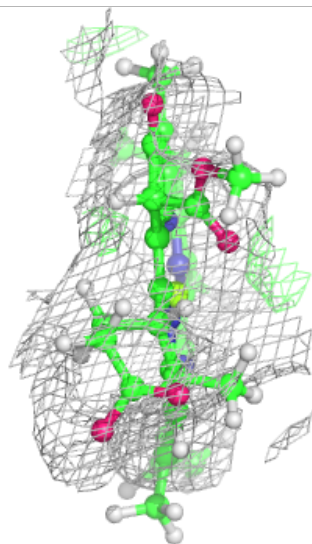
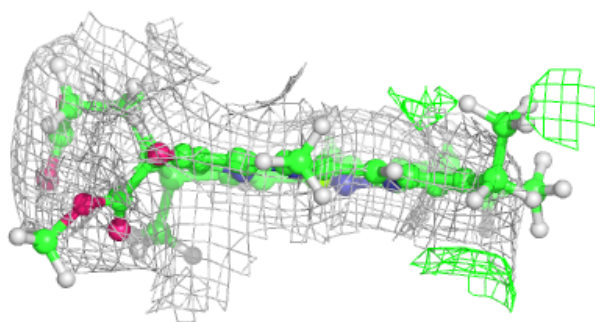
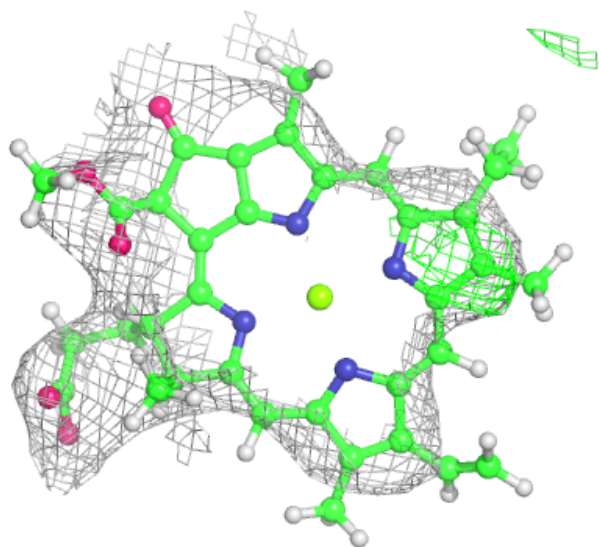
**Electron density around CLA B 3013:**

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



**Electron density around CLA X 1701:**

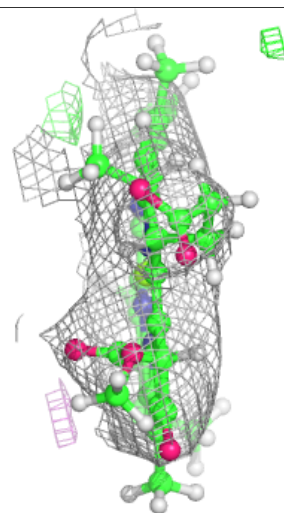
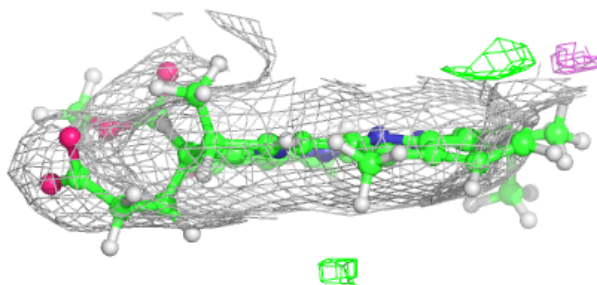
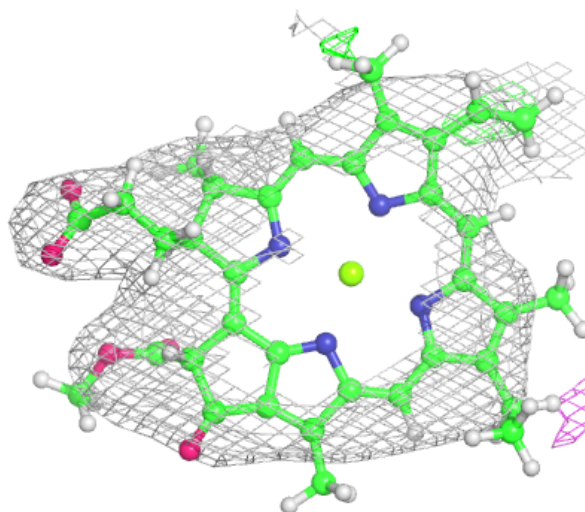
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





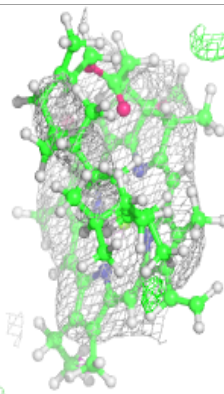
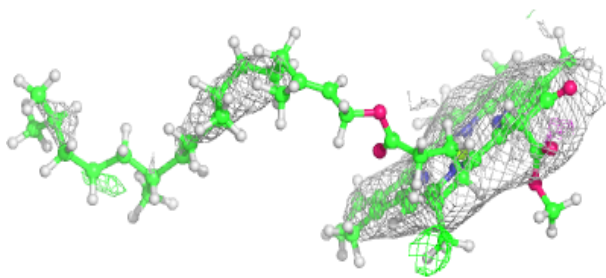
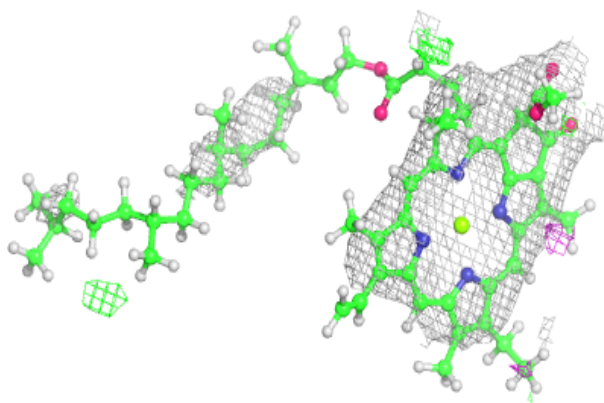
**Electron density around CLA B 3037:**

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

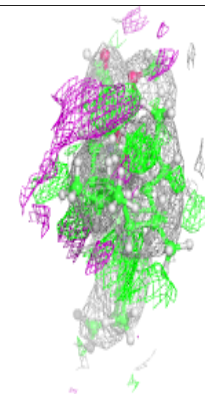
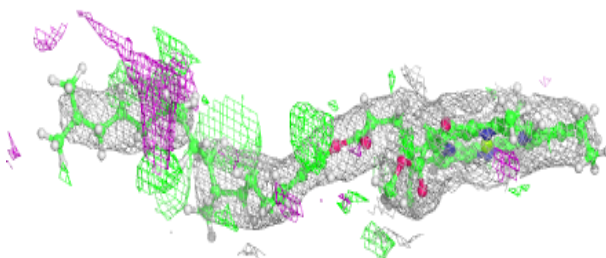
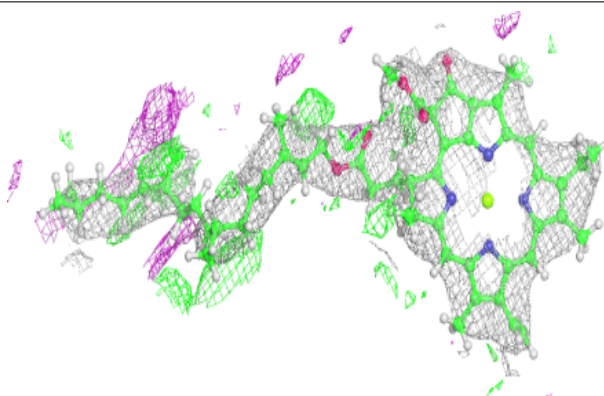


**Electron density around CLA A 809:**

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

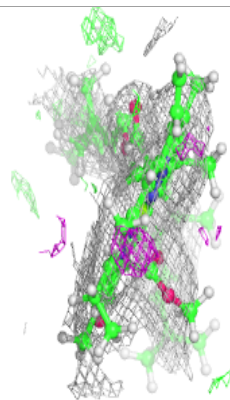
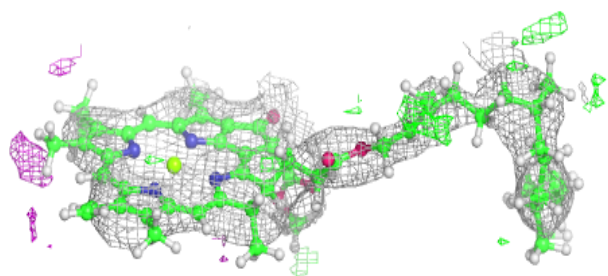
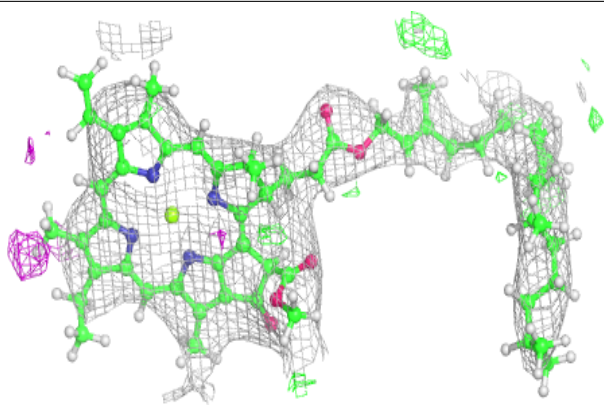
**Electron density around CLA A 834:**

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

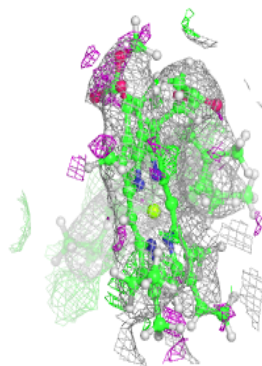
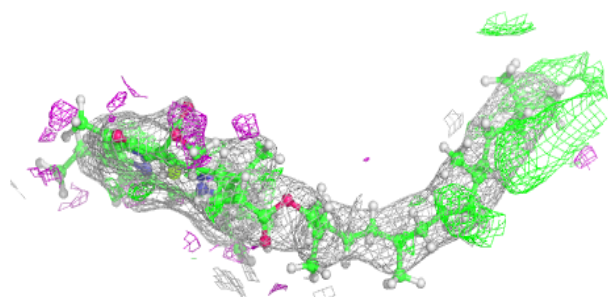
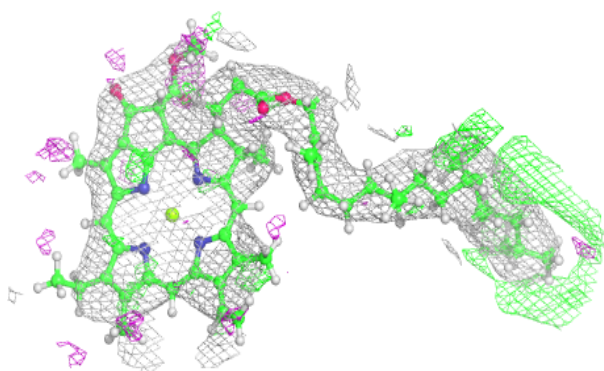


**Electron density around CLA B 3027:**

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

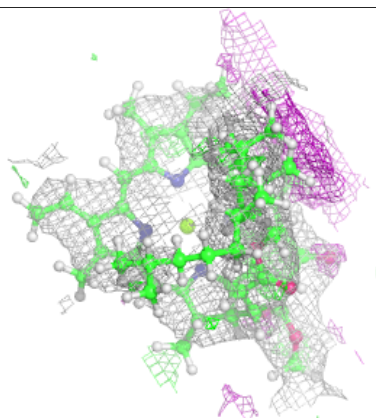
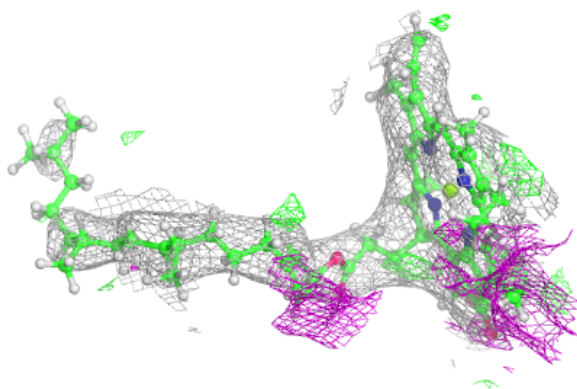
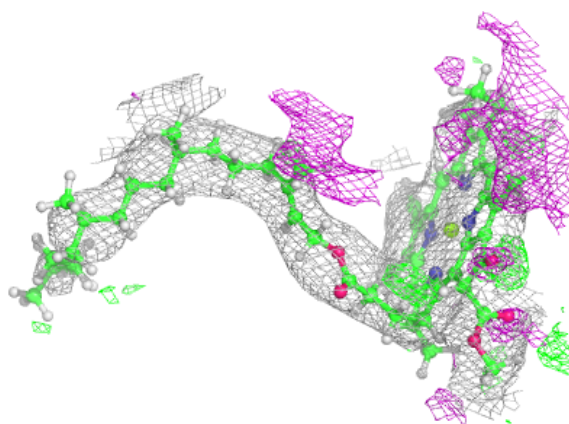
**Electron density around CLA B 3004:**

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

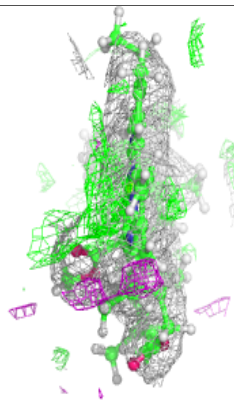
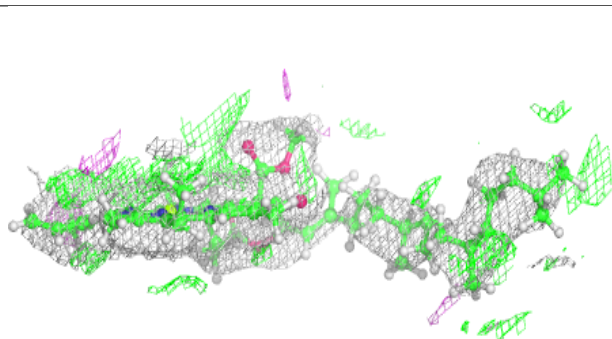
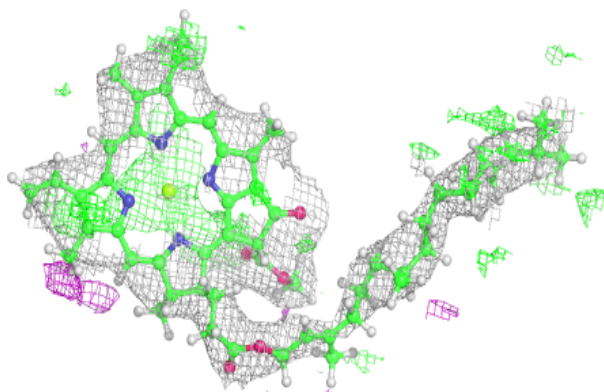


**Electron density around CLA L 204:**

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

**Electron density around CLA L 205:**

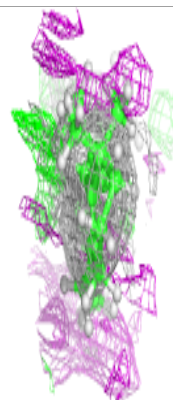
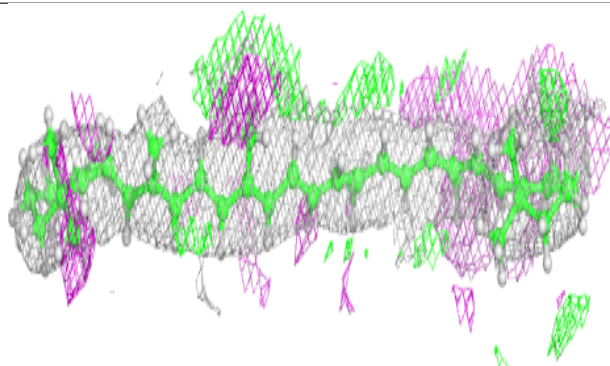
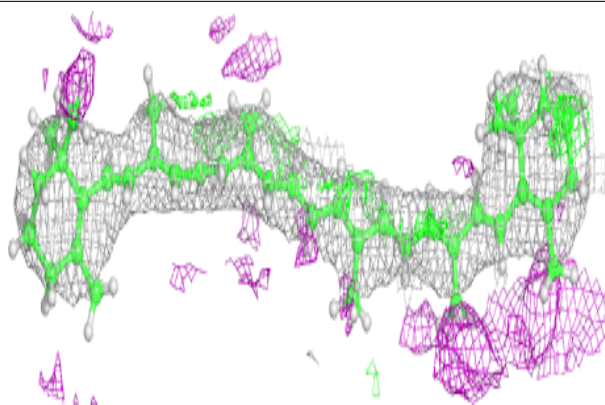
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



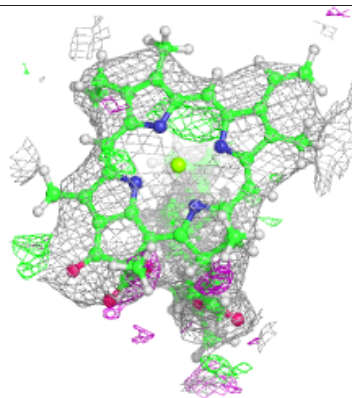
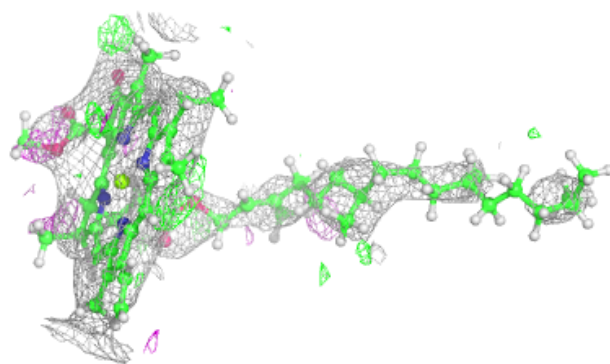
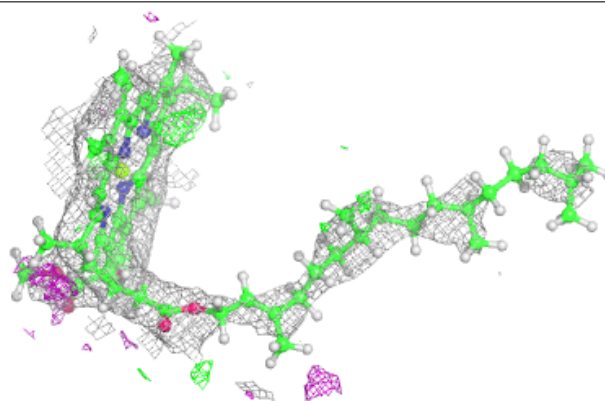


**Electron density around BCR I 105:**

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

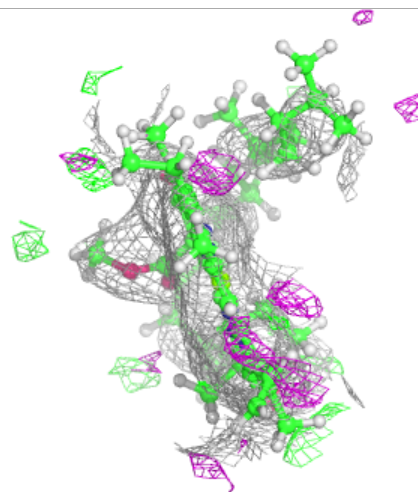
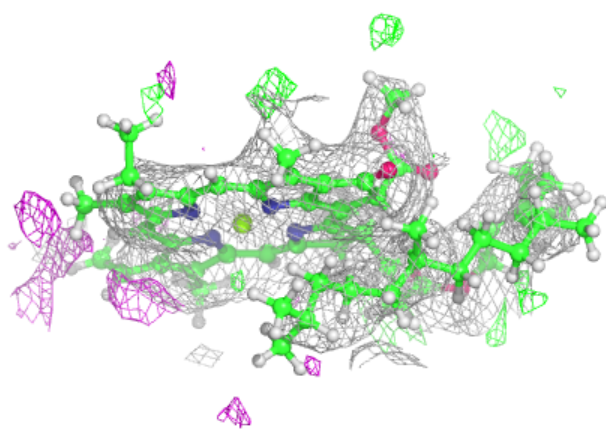
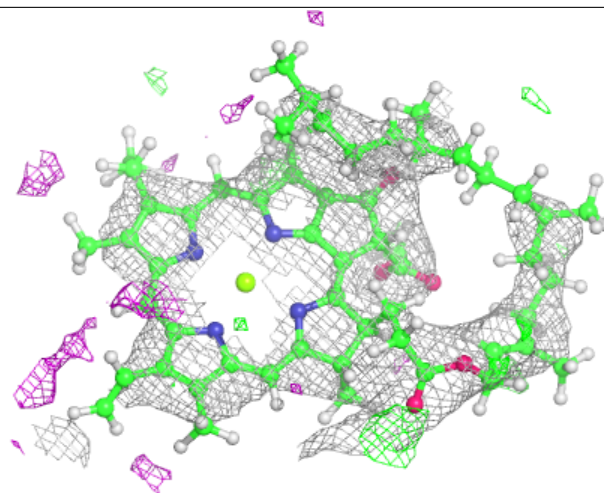
**Electron density around CLA B 3030:**

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



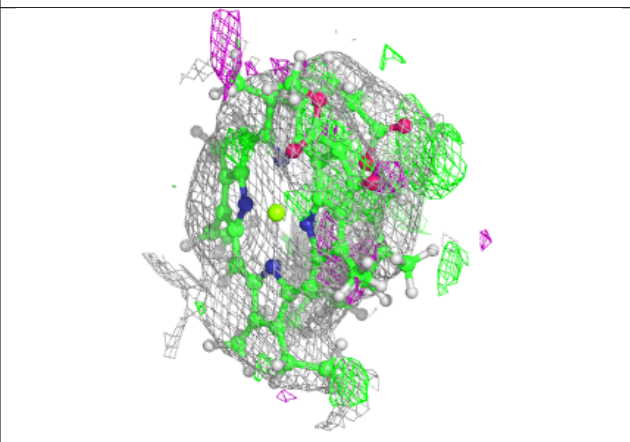
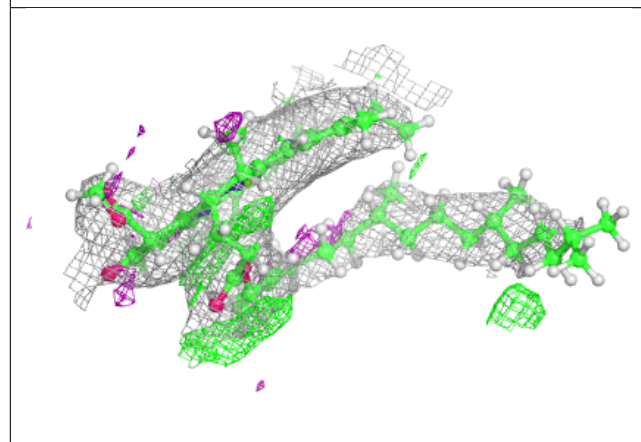
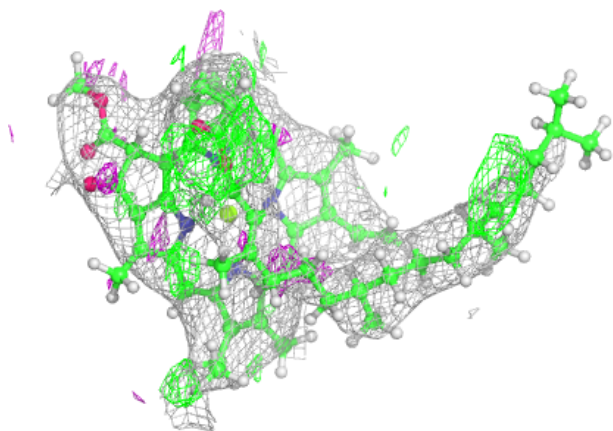
**Electron density around CLA B 3006:**

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

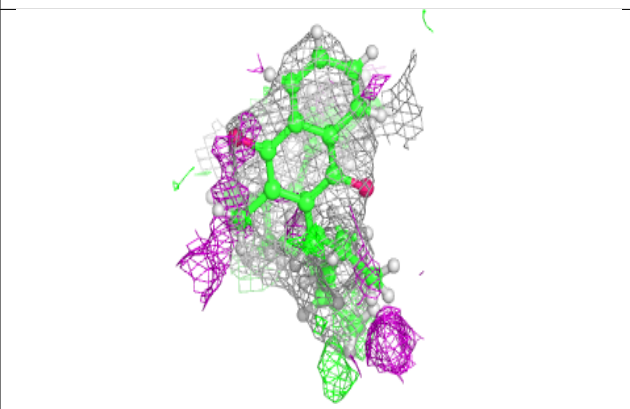
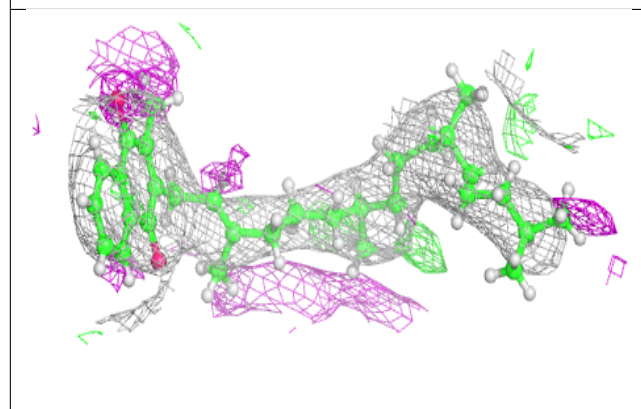
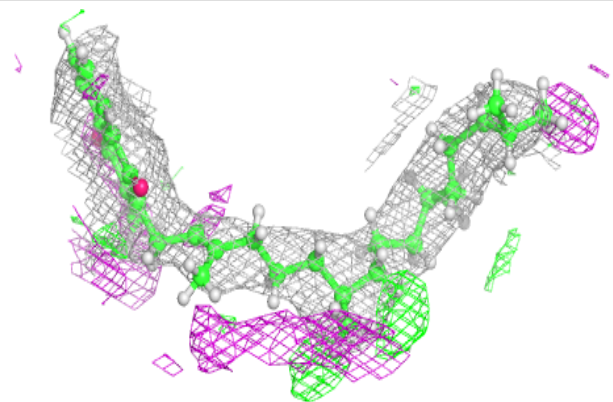


**Electron density around CLA B 3008:**

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

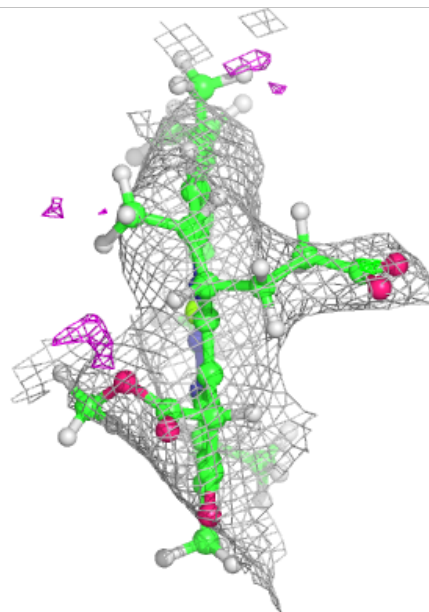
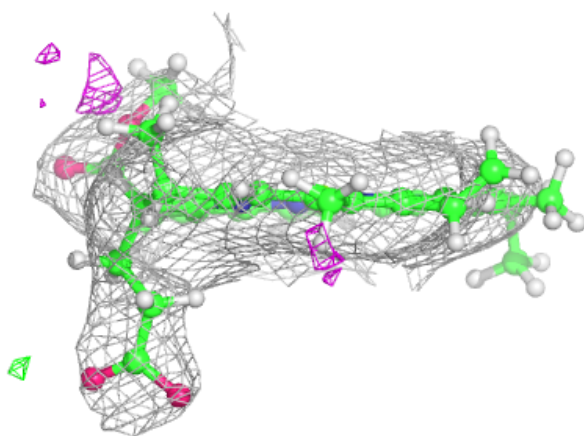
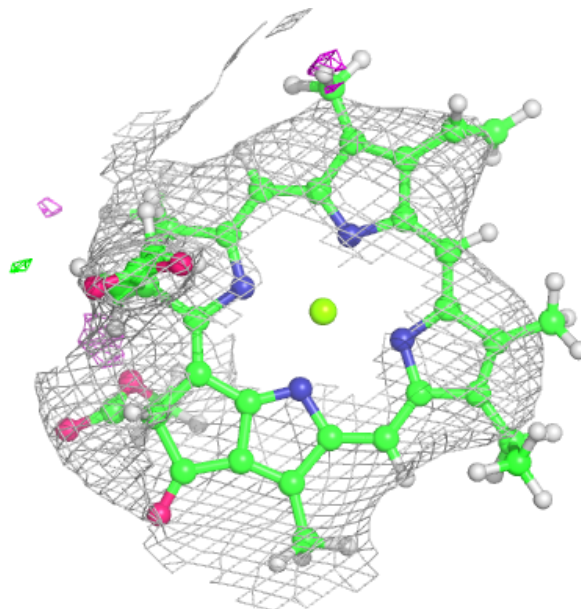
**Electron density around PQN B 3042:**

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



**Electron density around CLA B 3035:**

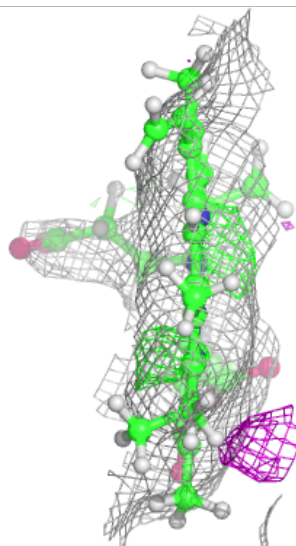
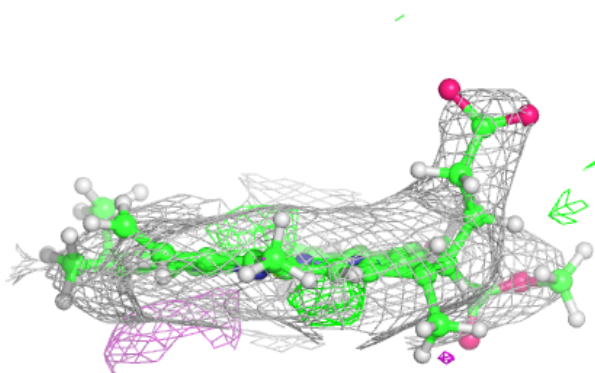
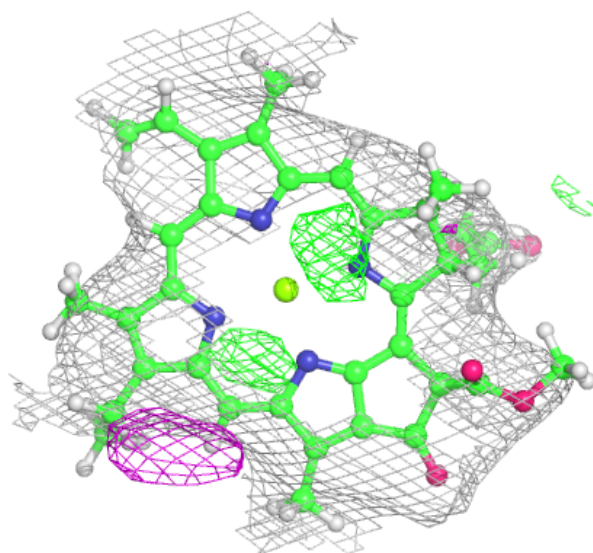
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





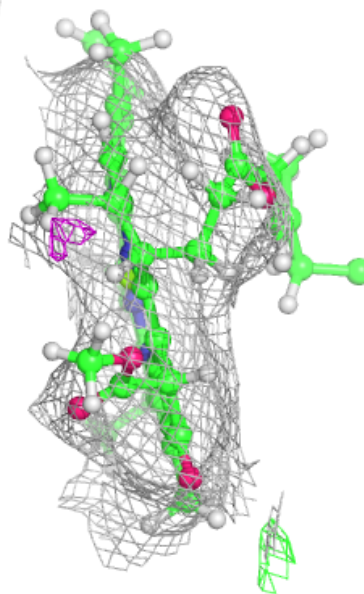
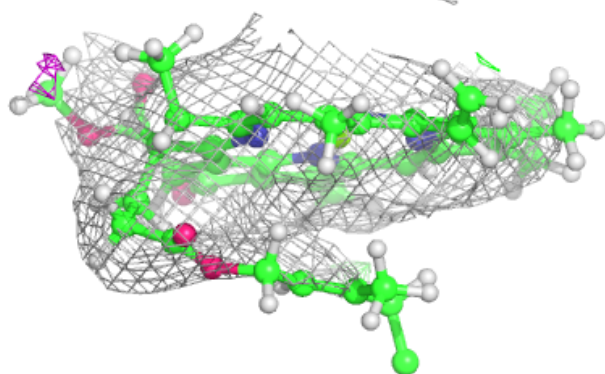
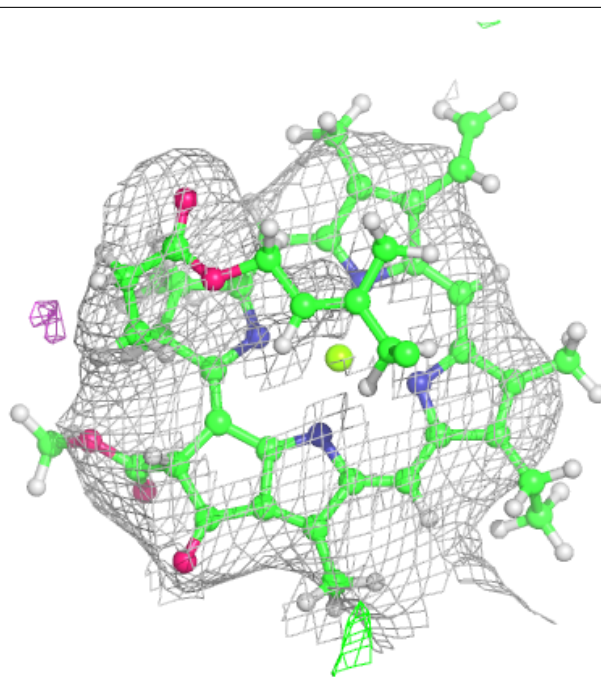
**Electron density around CLA B 3036:**

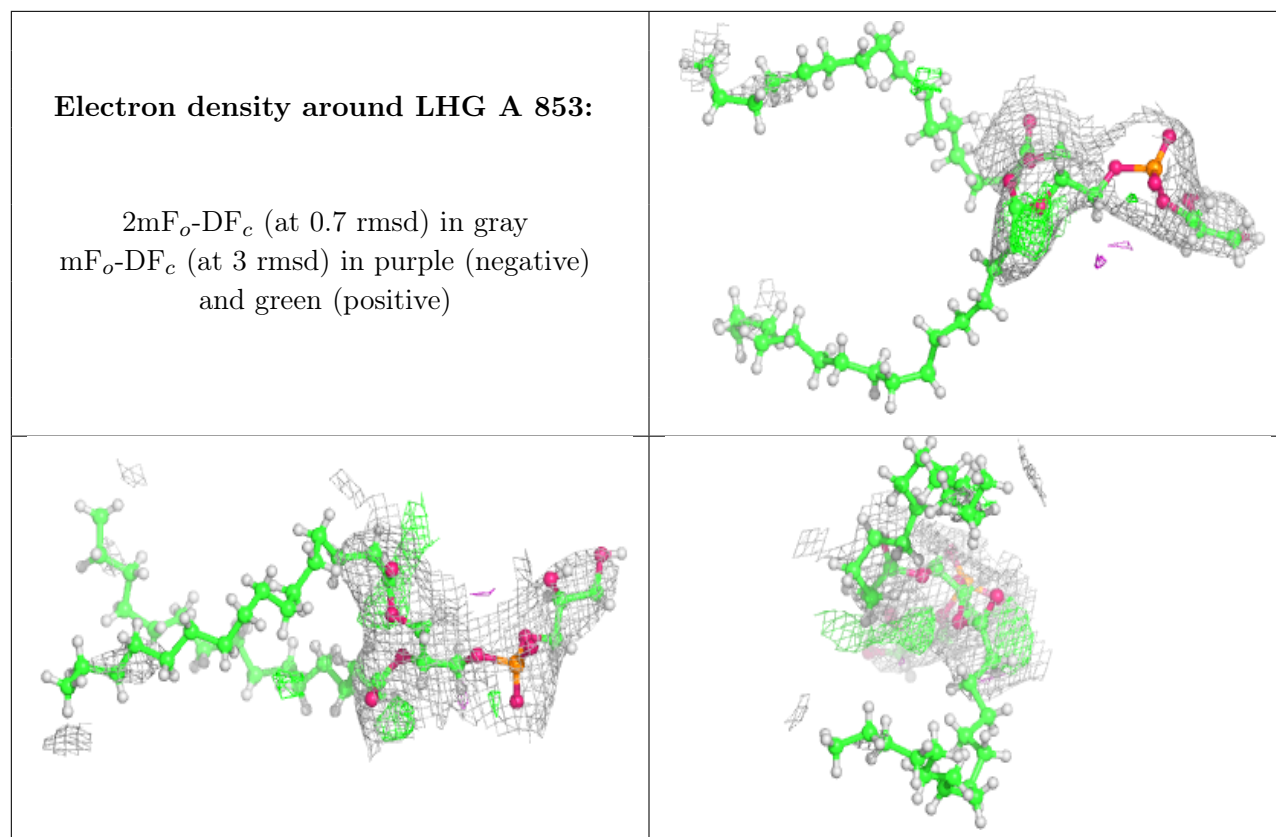
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

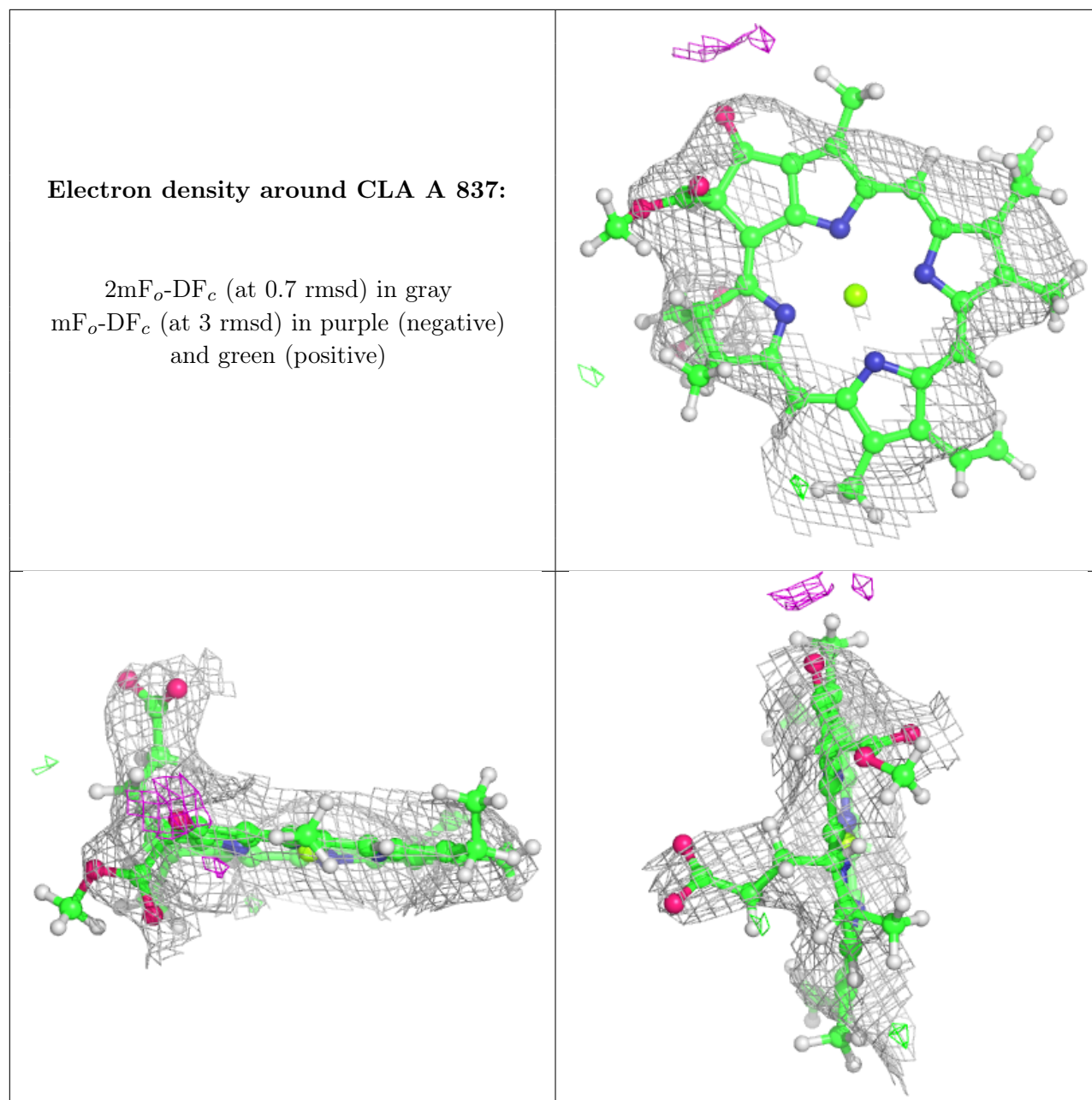


**Electron density around CLA A 824:**

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

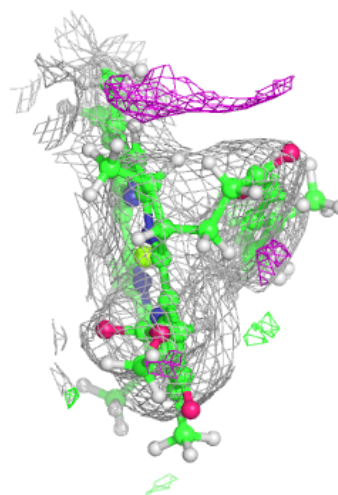
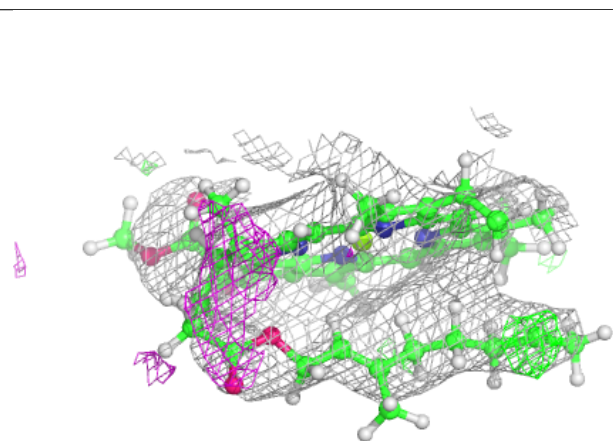
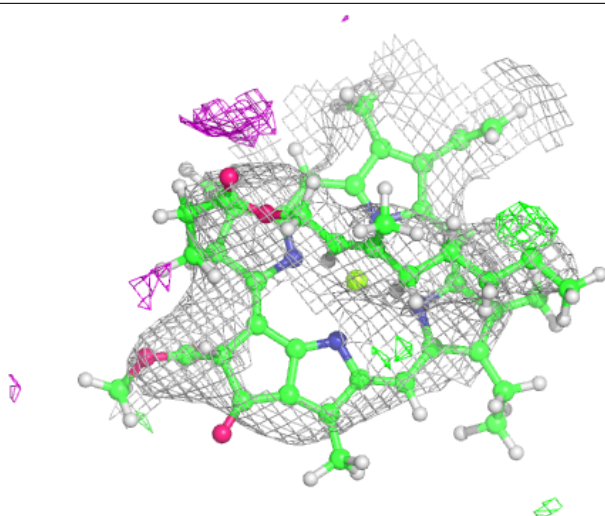






**Electron density around CLA A 819:**

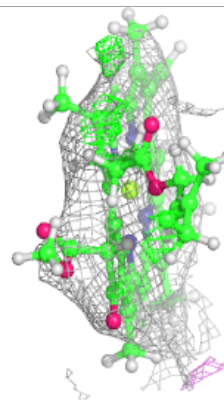
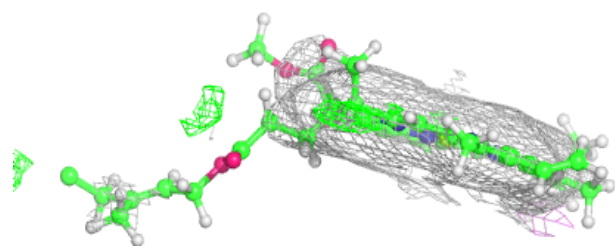
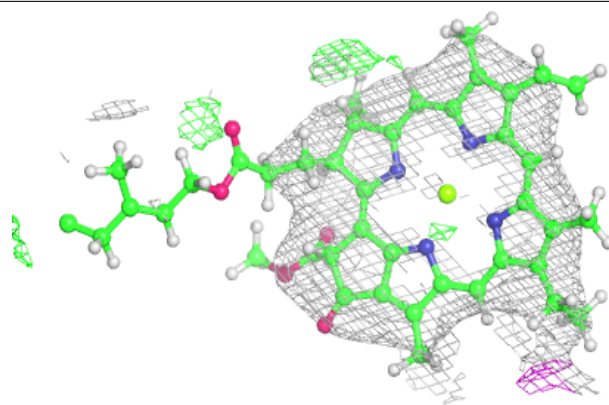
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



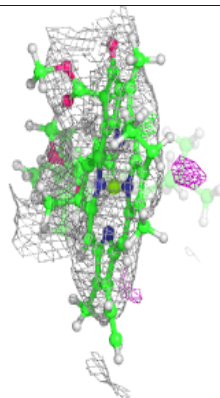
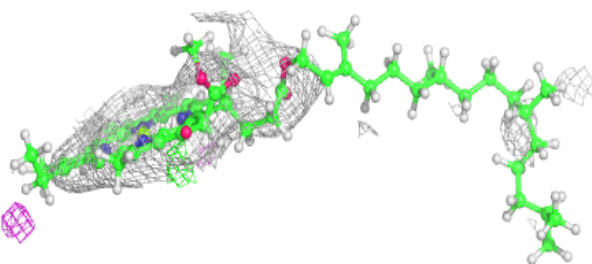
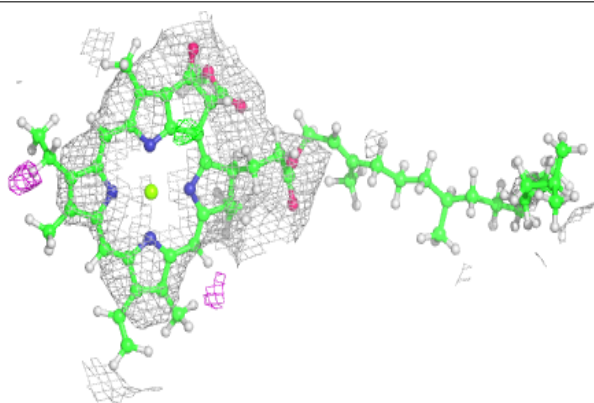


**Electron density around CLA A 842:**

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

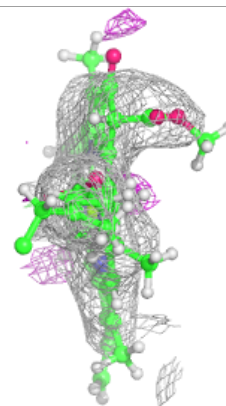
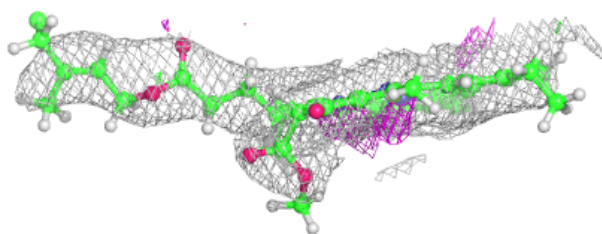
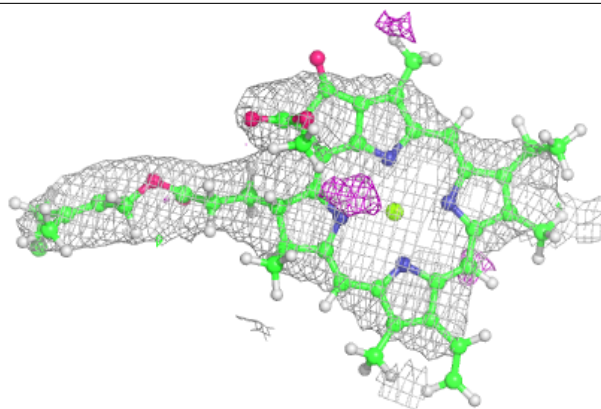
**Electron density around CLA A 806:**

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

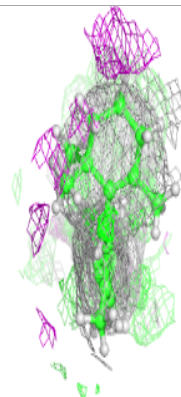
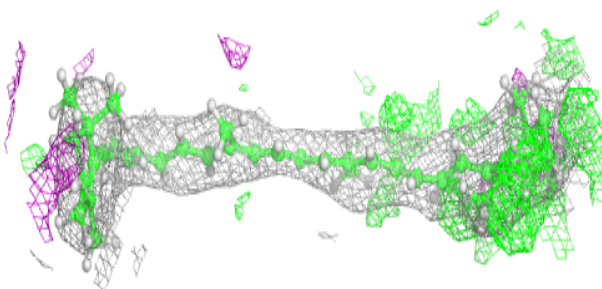
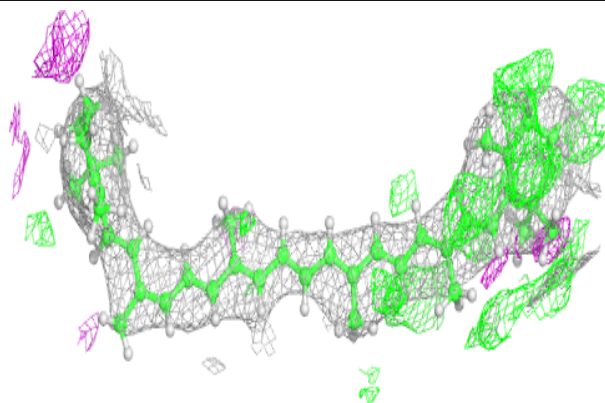


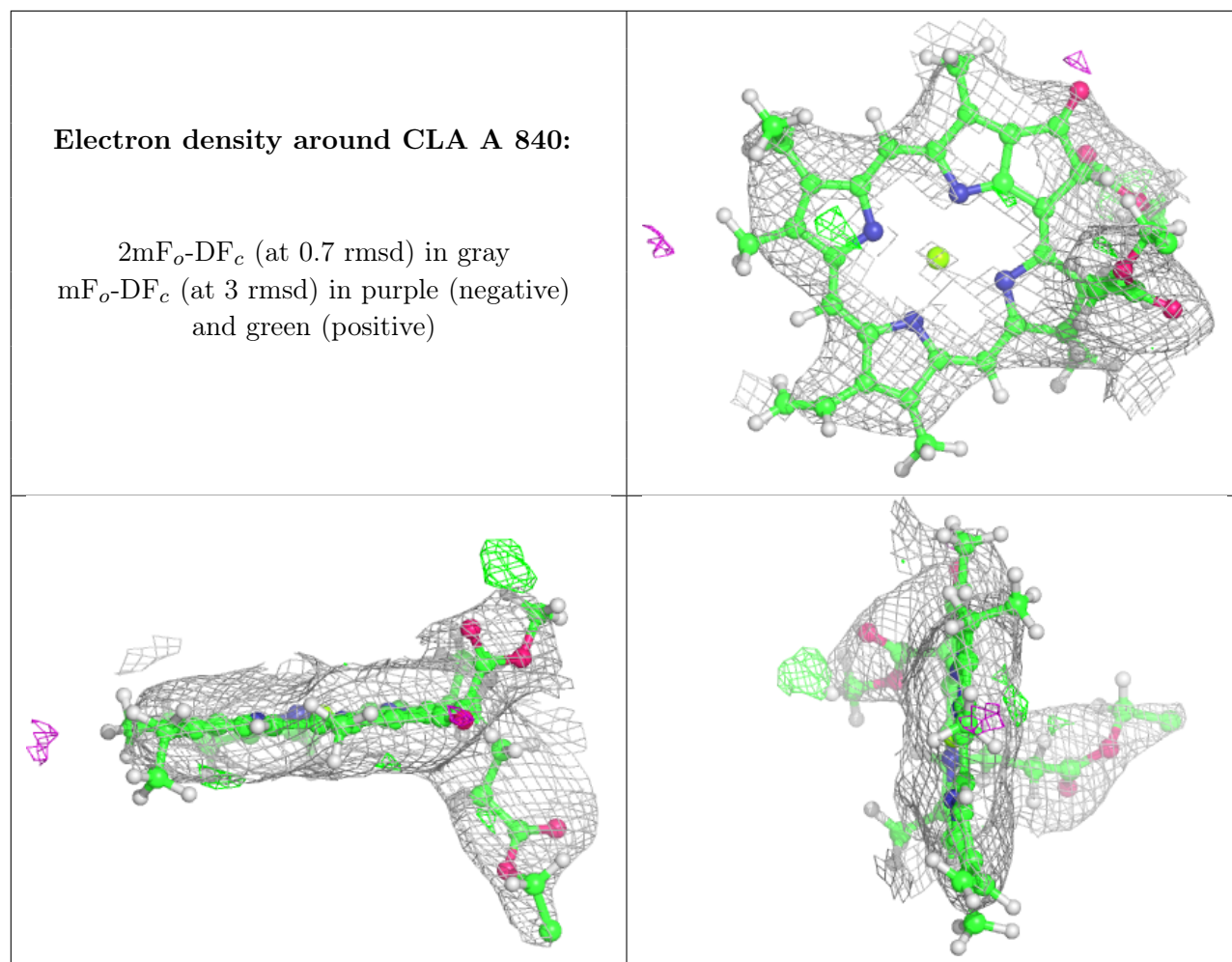
**Electron density around CLA A 838:**

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

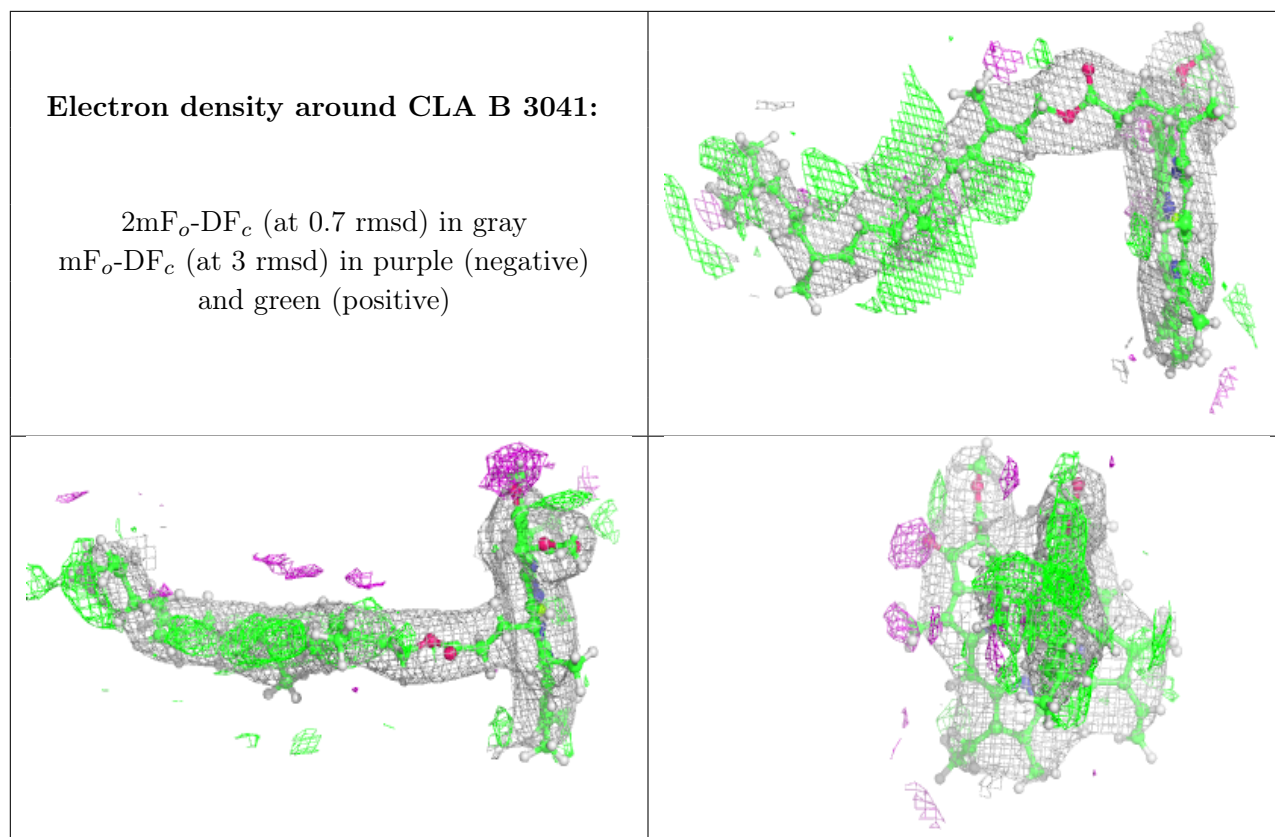
**Electron density around BCR I 103:**

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



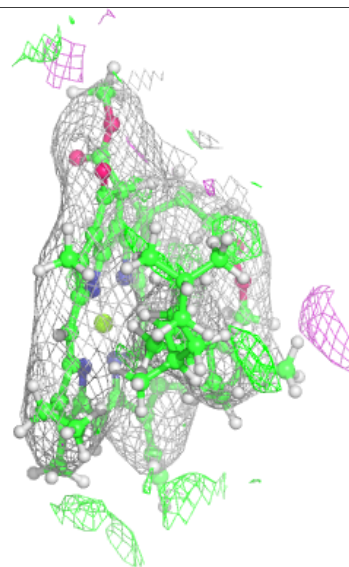
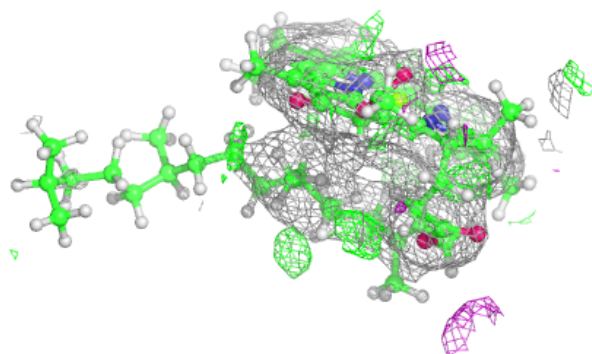
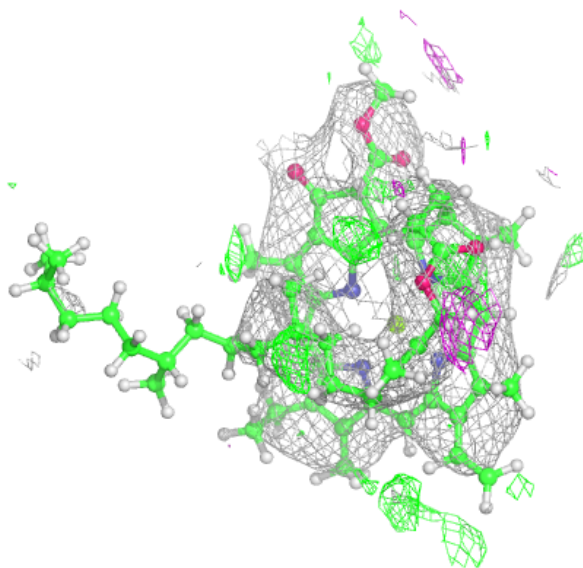






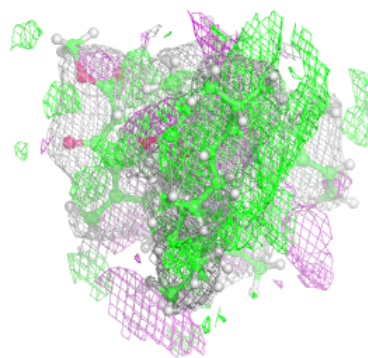
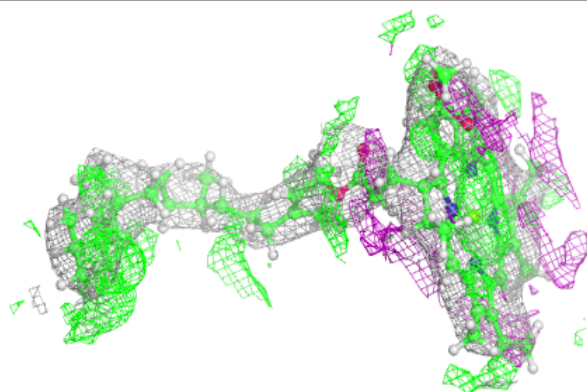
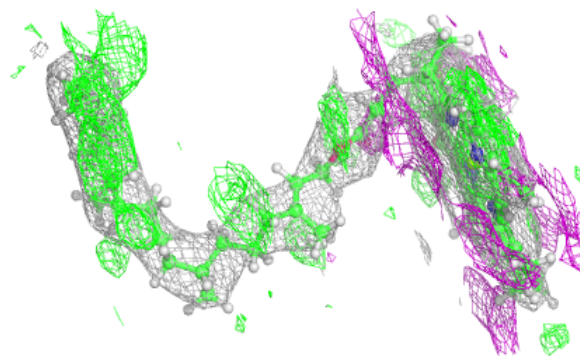
**Electron density around CLA B 3028:**

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



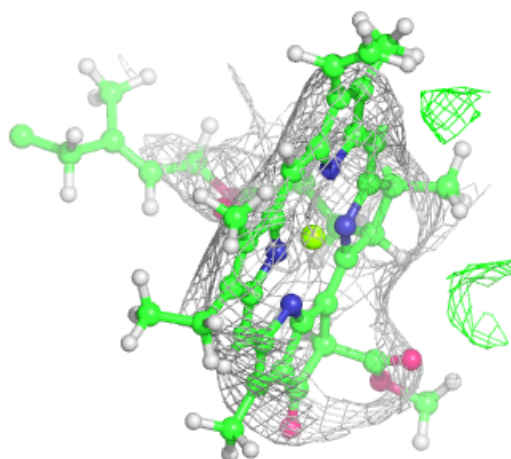
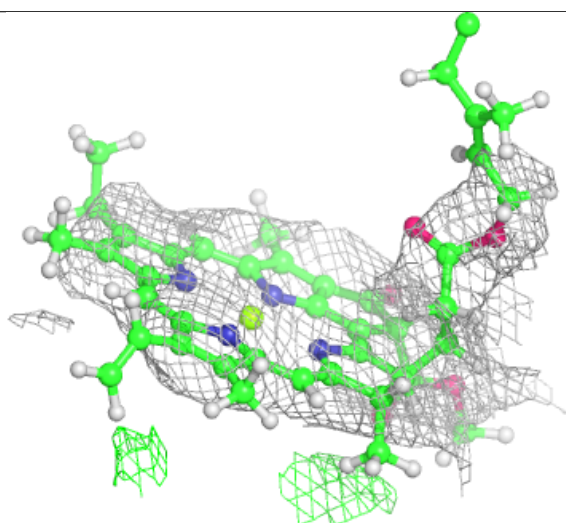
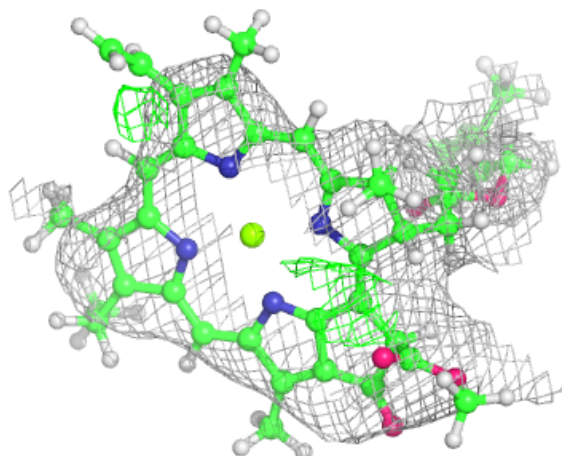
**Electron density around CLA I 101:**

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



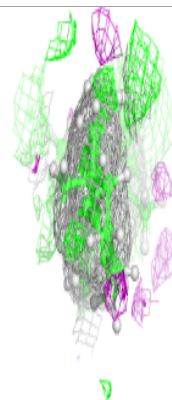
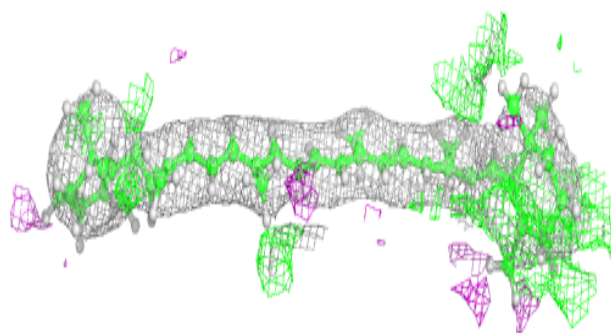
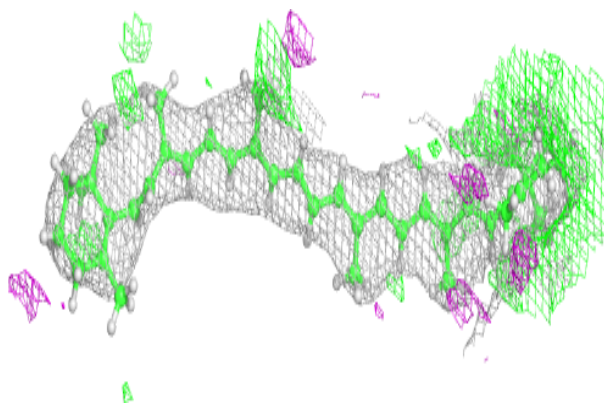
**Electron density around CLA A 808:**

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

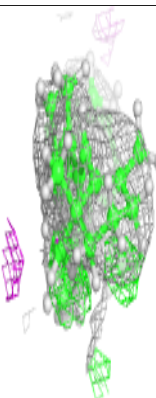
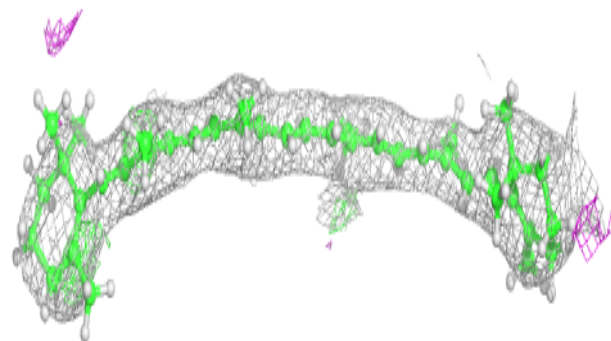
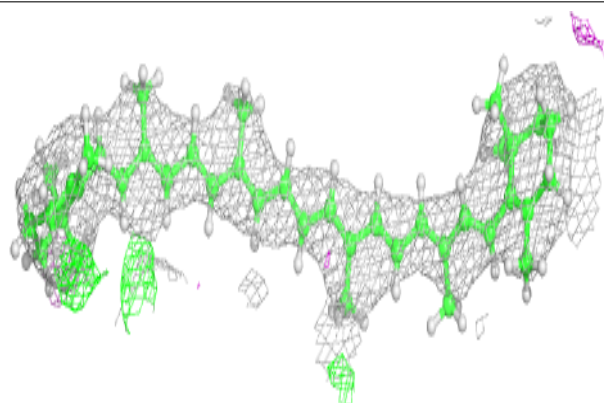


**Electron density around BCR L 207:**

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

**Electron density around BCR M 103:**

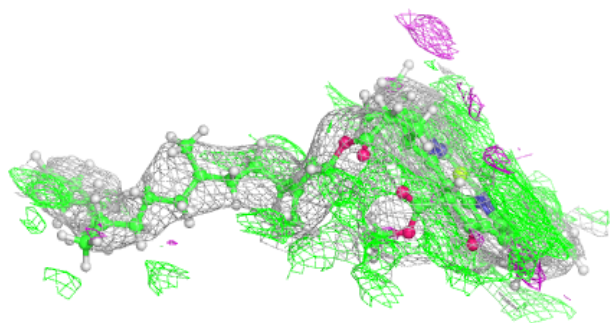
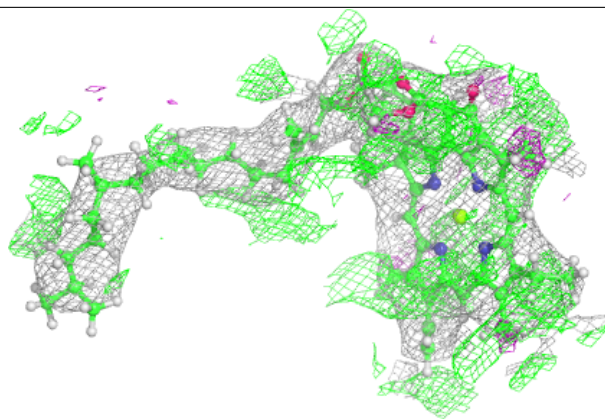
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



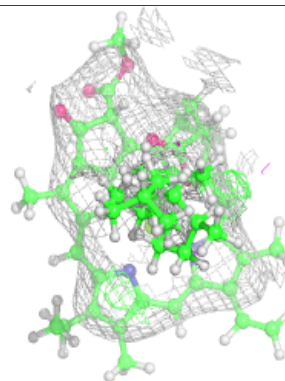
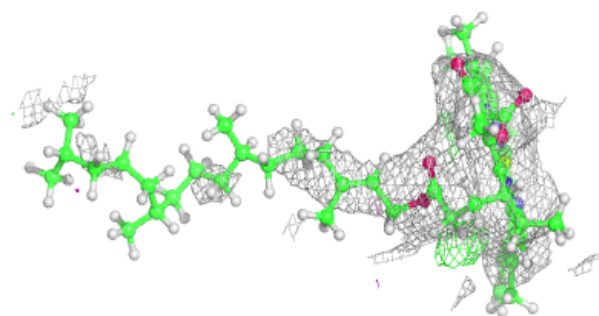
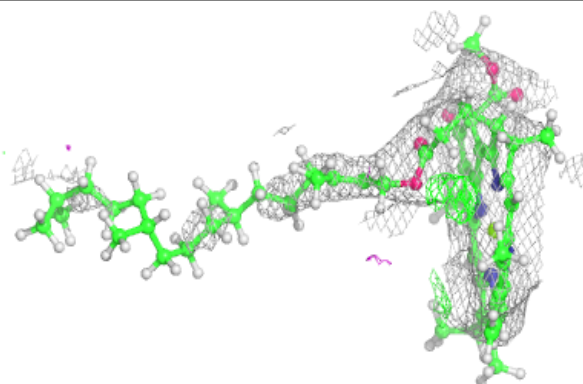


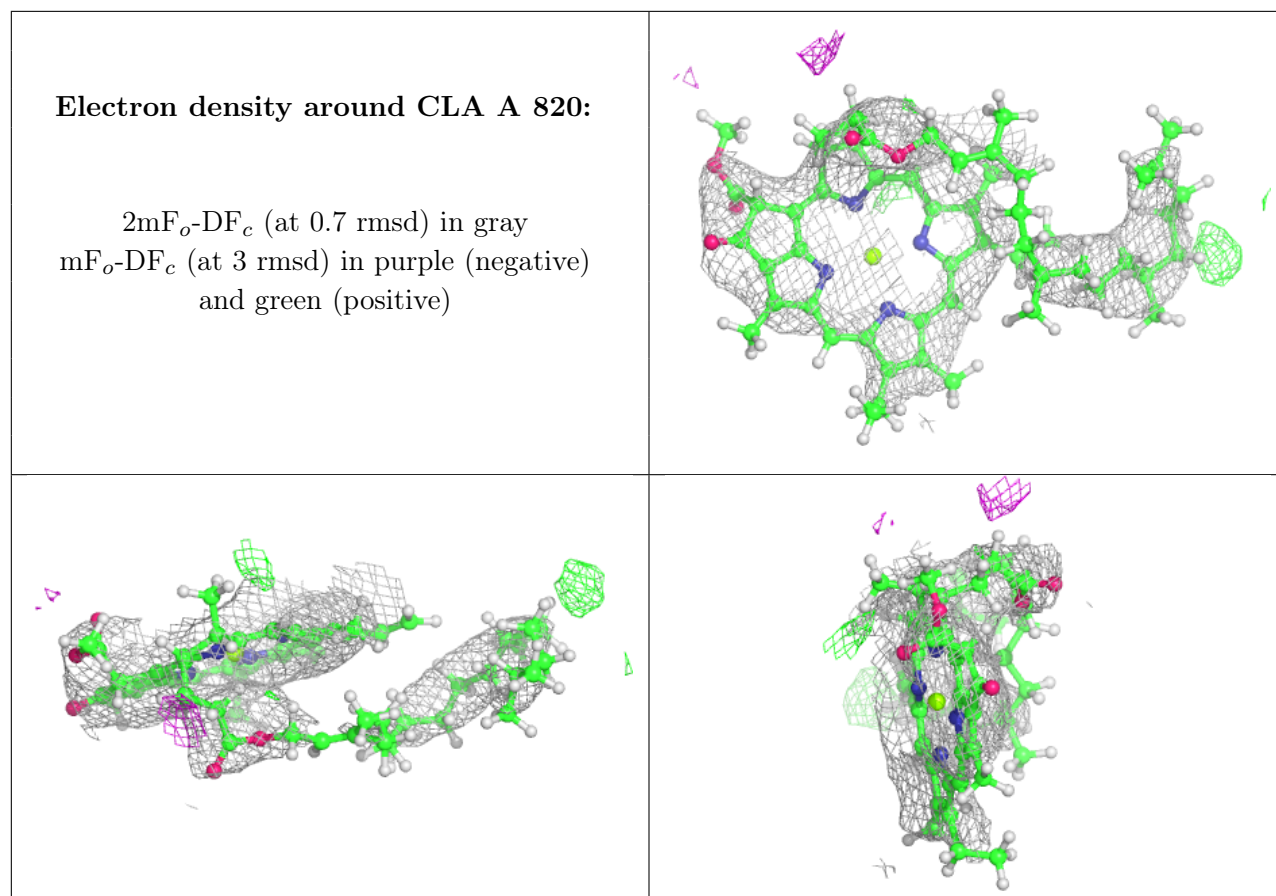
**Electron density around CLA B 3011:**

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

**Electron density around CLA A 829:**

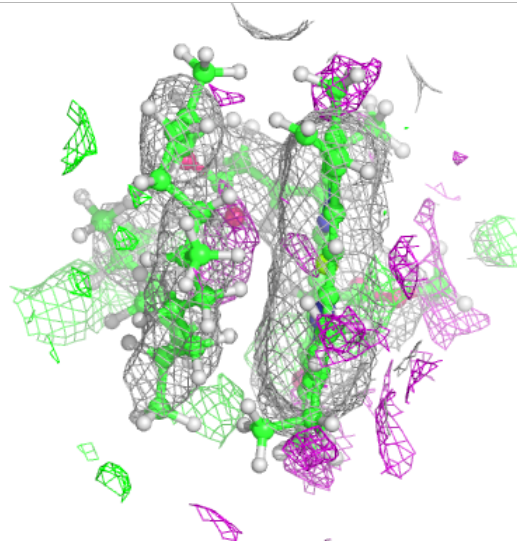
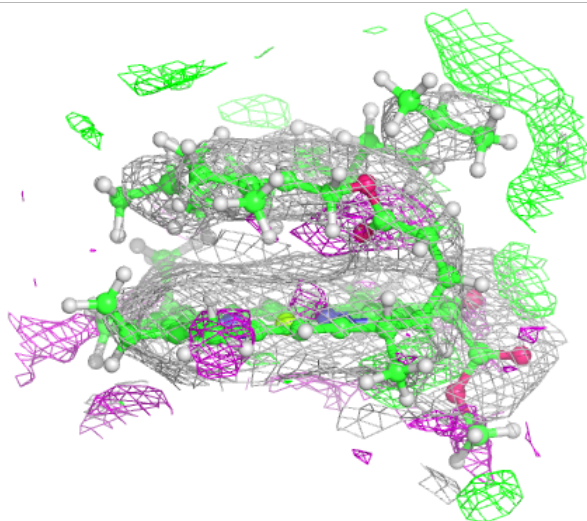
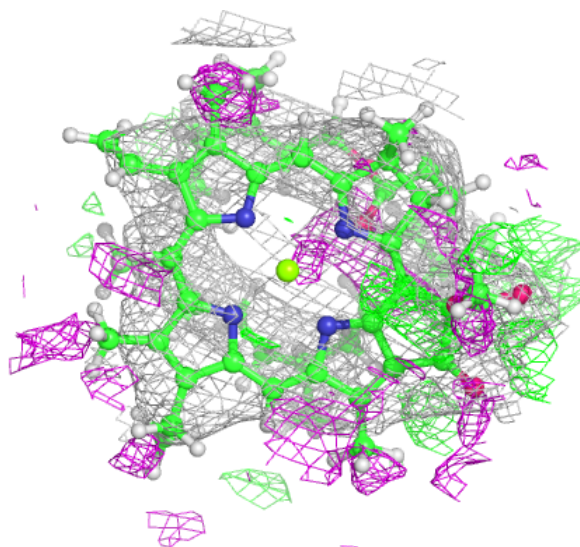
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



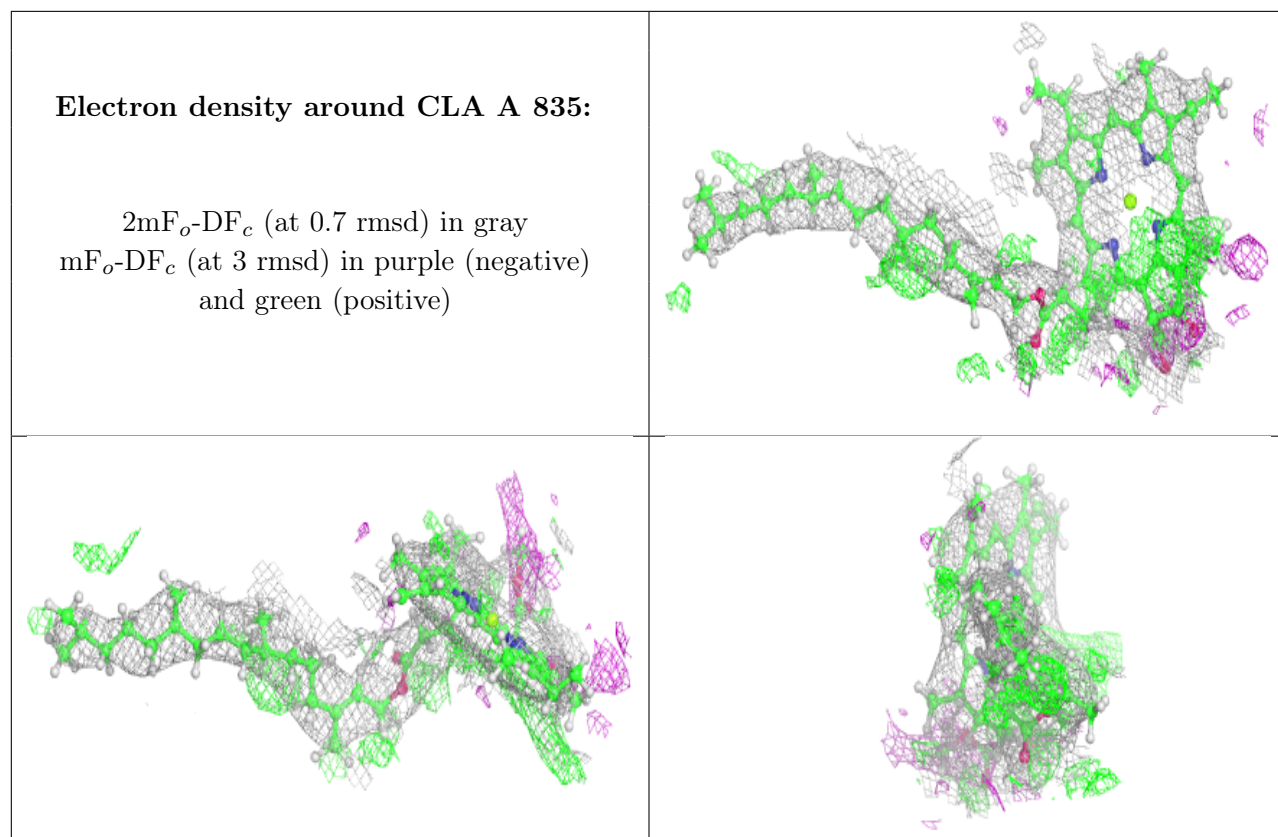


**Electron density around CLA L 203:**

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

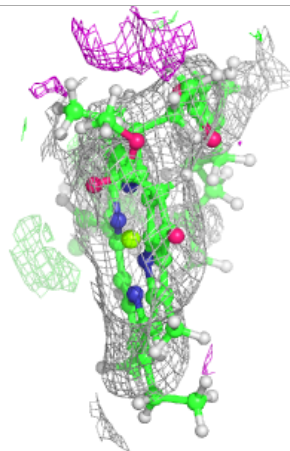
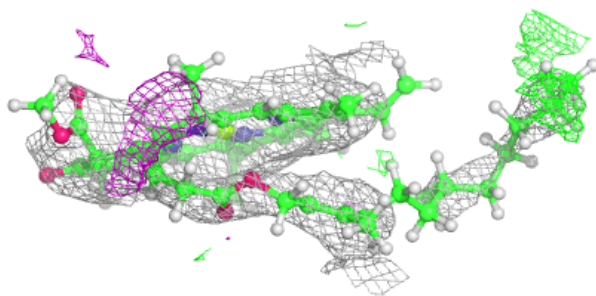
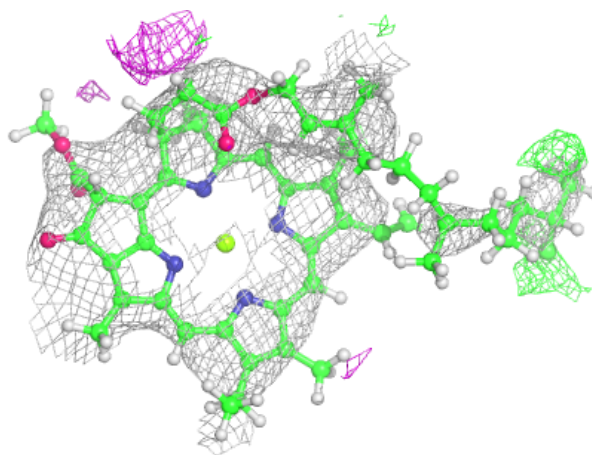






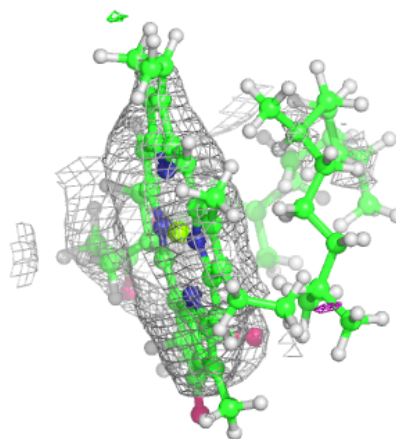
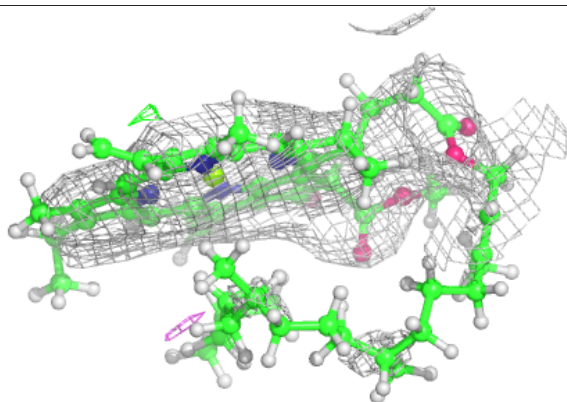
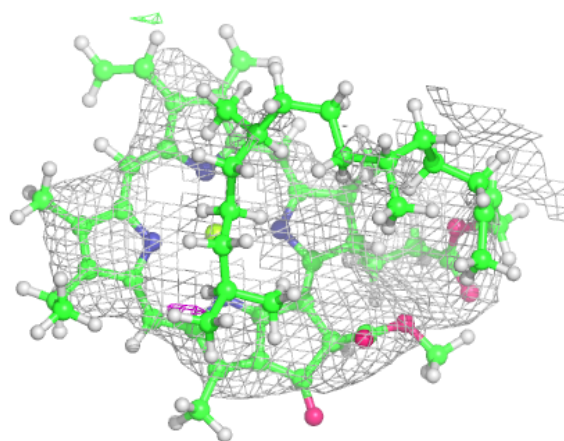
**Electron density around CLA B 3019:**

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

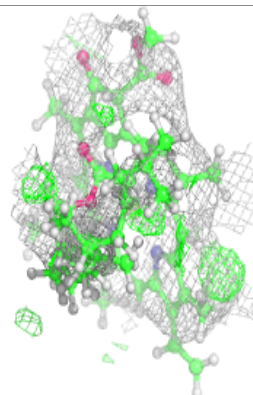
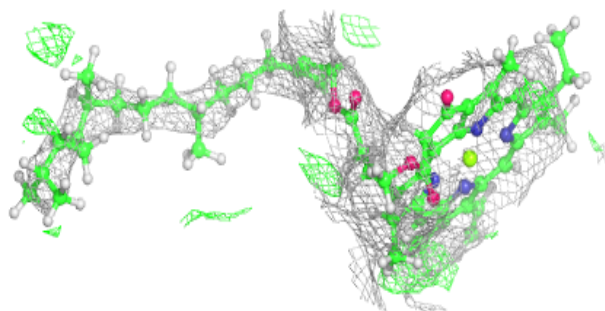
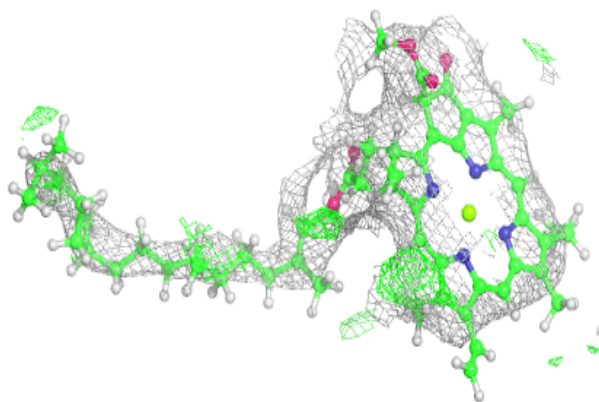


**Electron density around CLA A 807:**

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

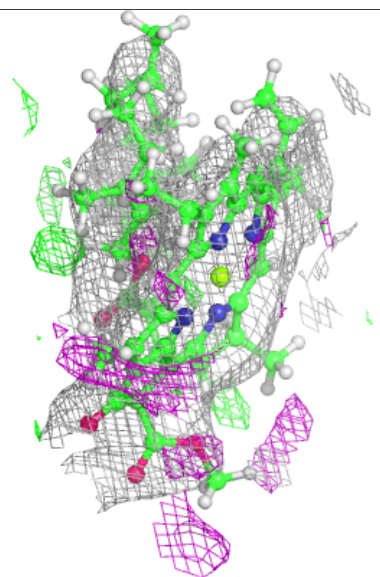
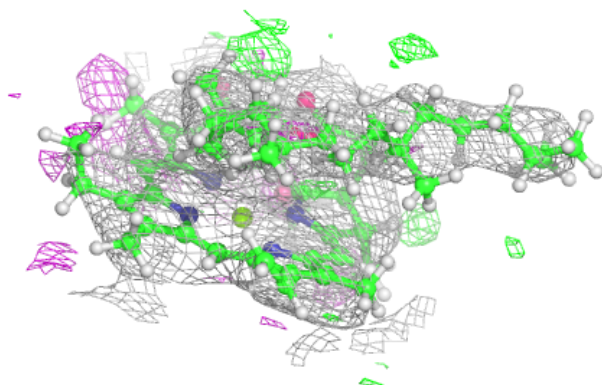
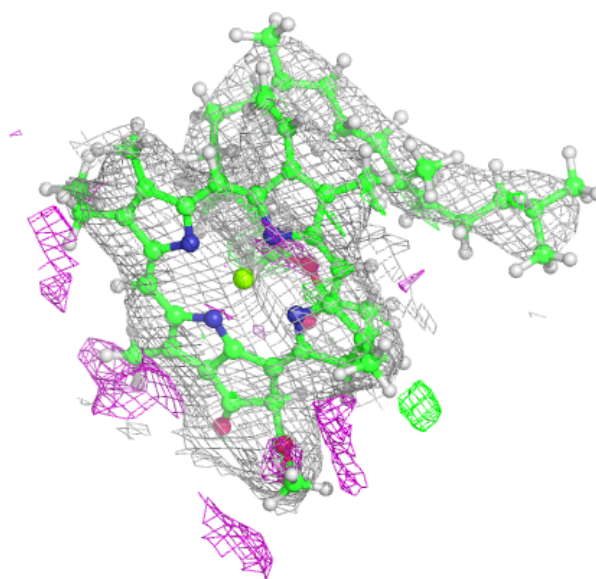
**Electron density around CLA A 822:**

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



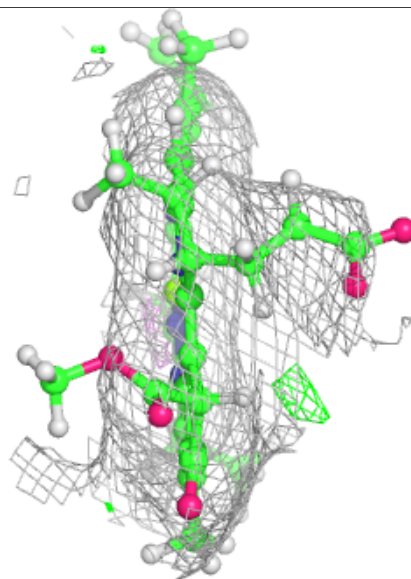
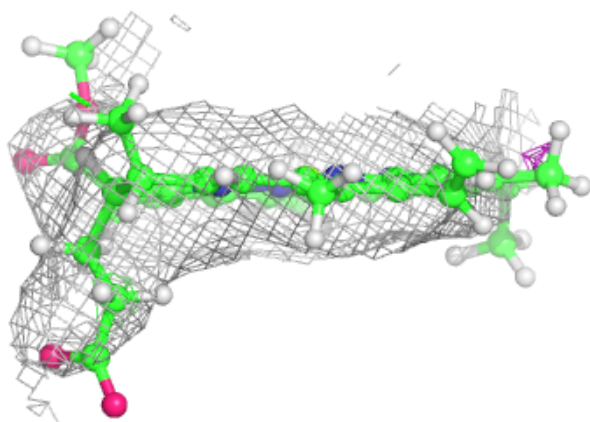
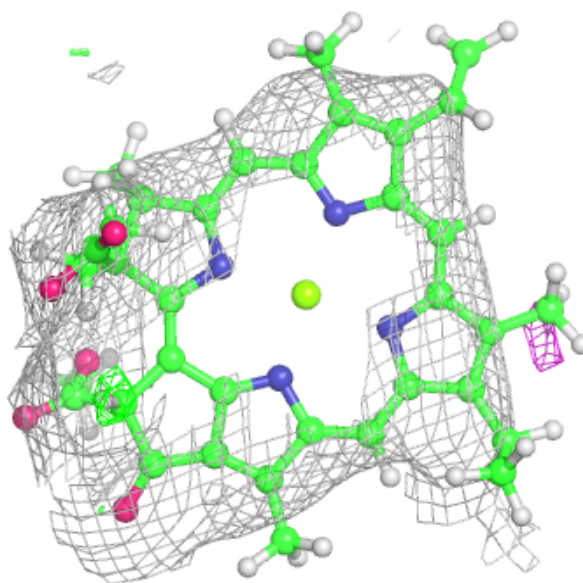
**Electron density around CLA B 3009:**

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



**Electron density around CLA B 3022:**

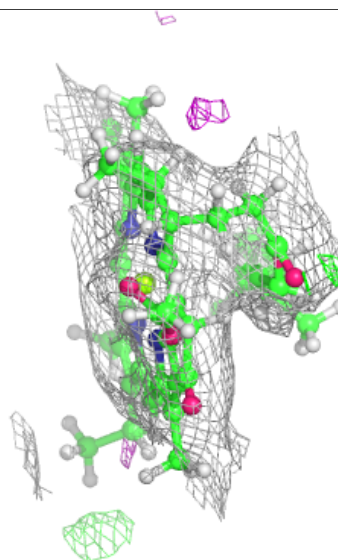
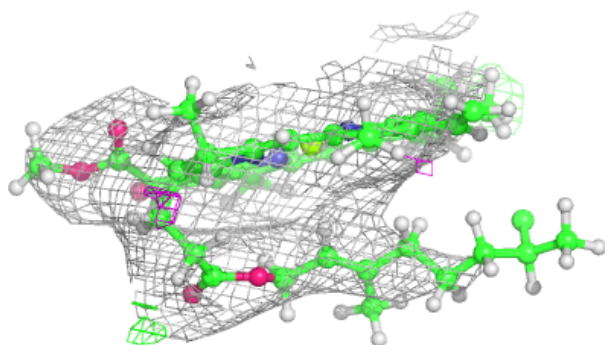
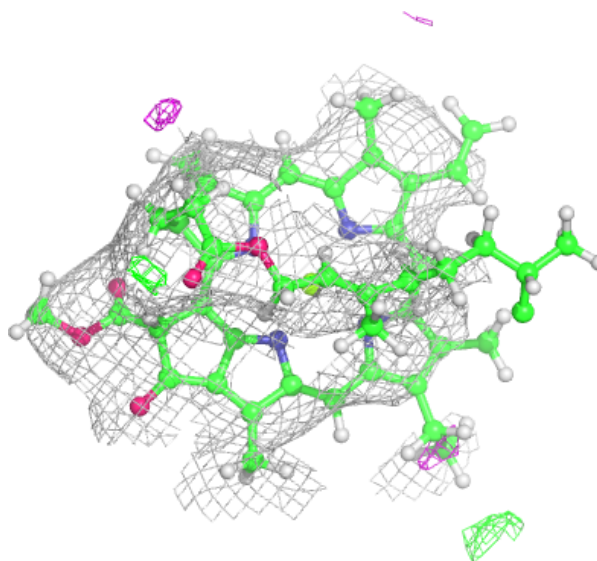
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

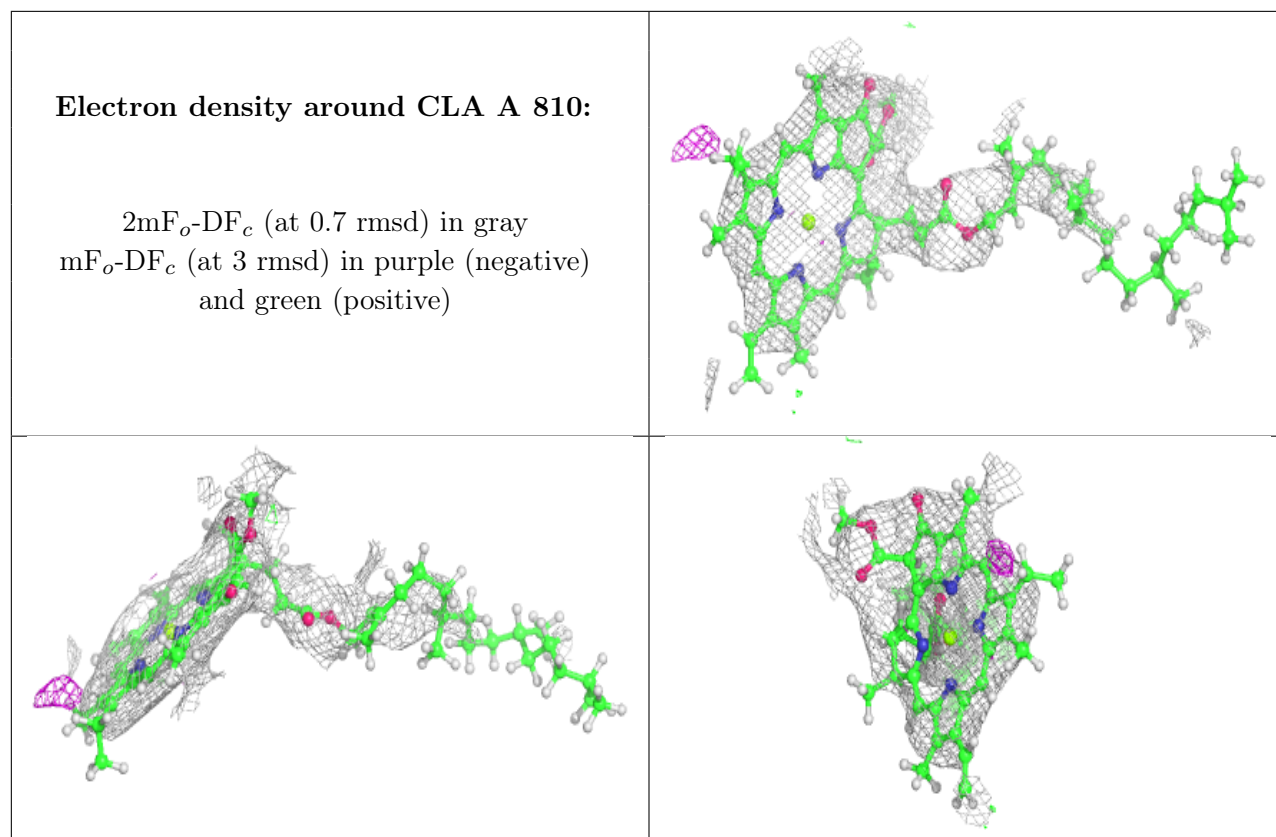




**Electron density around CLA B 3023:**

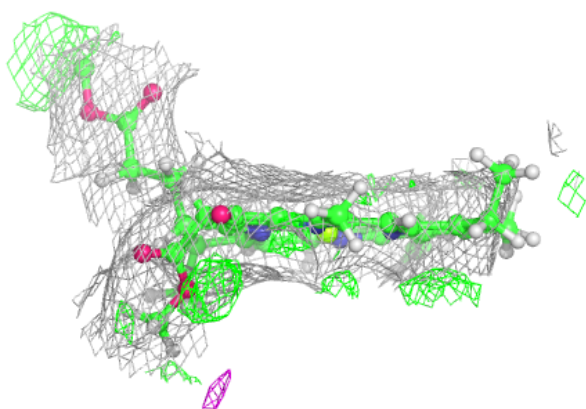
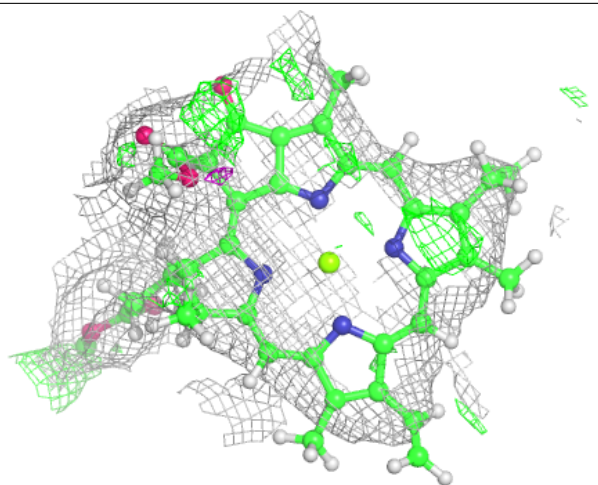
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





**Electron density around CLA B 3026:**

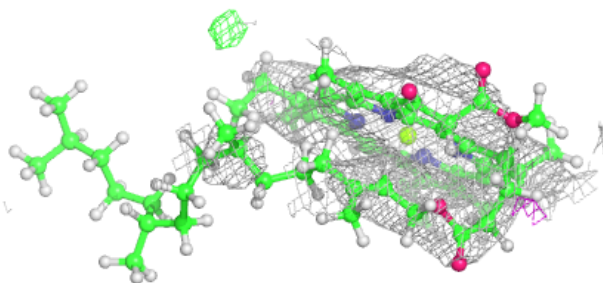
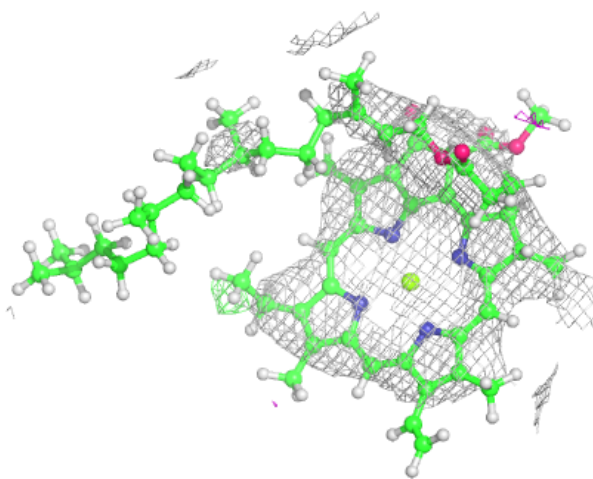
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





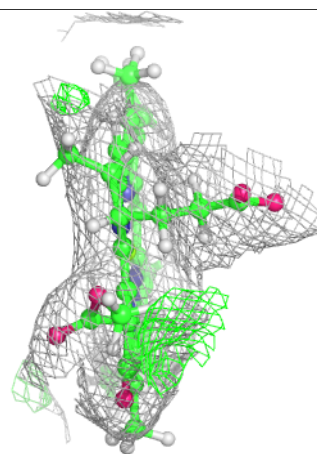
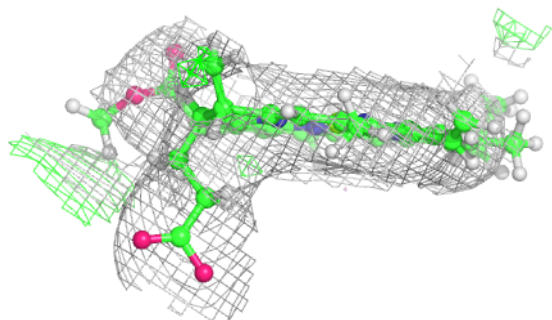
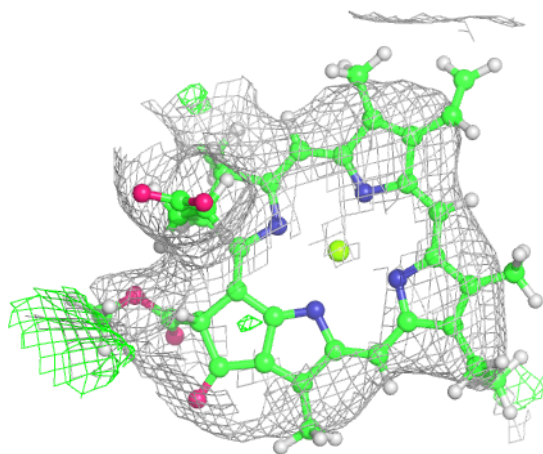
**Electron density around CLA A 830:**

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



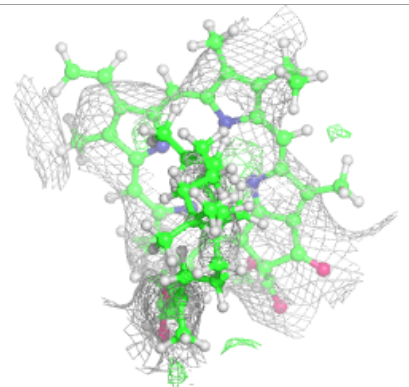
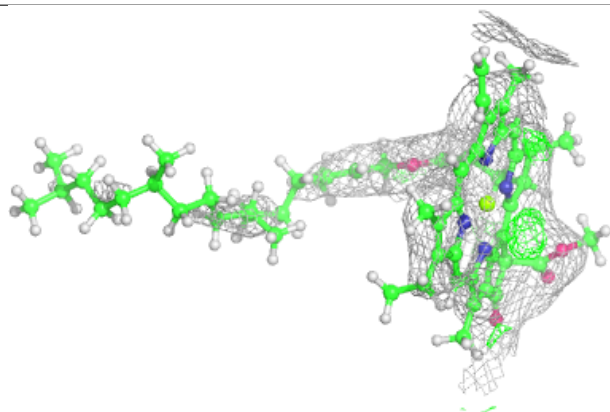
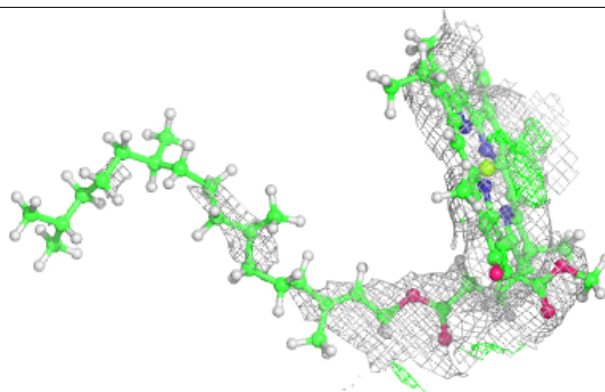
**Electron density around CLA B 3012:**

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

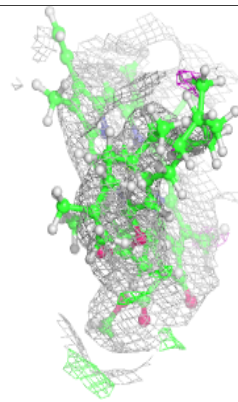
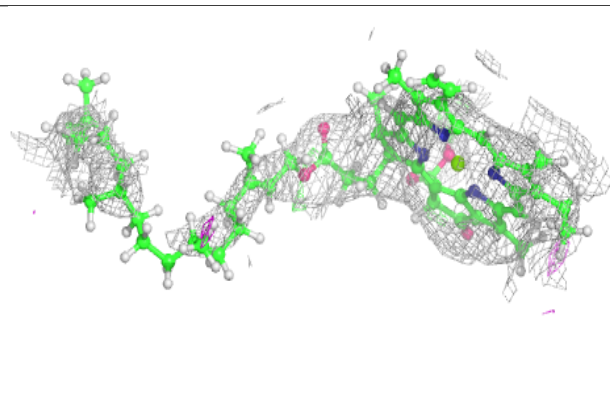
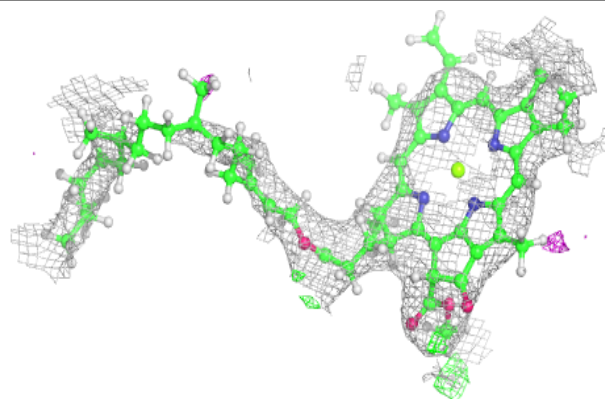


**Electron density around CLA A 831:**

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

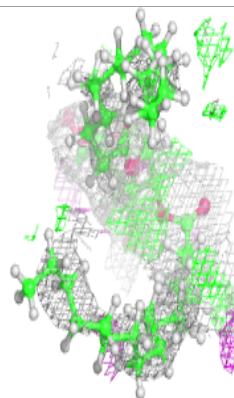
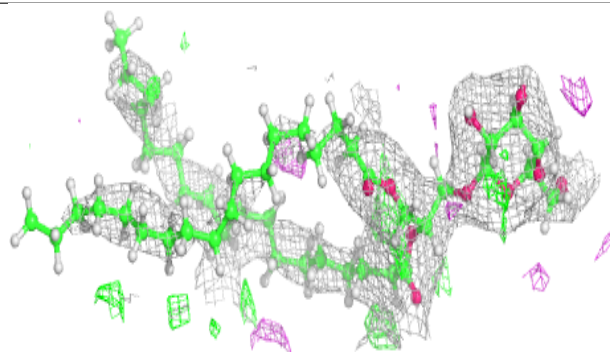
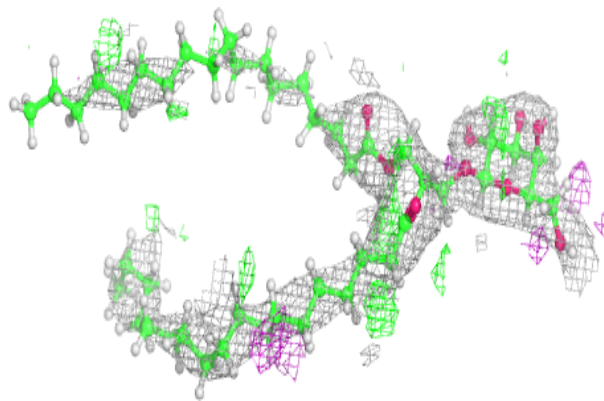
**Electron density around CLA B 3014:**

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



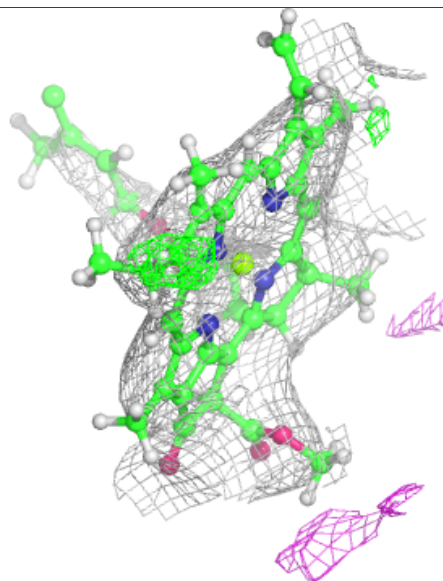
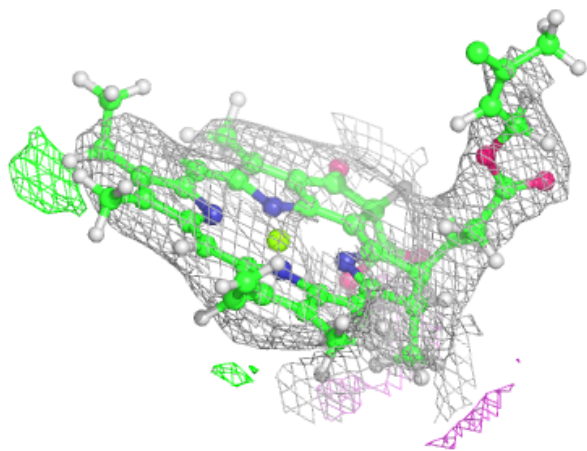
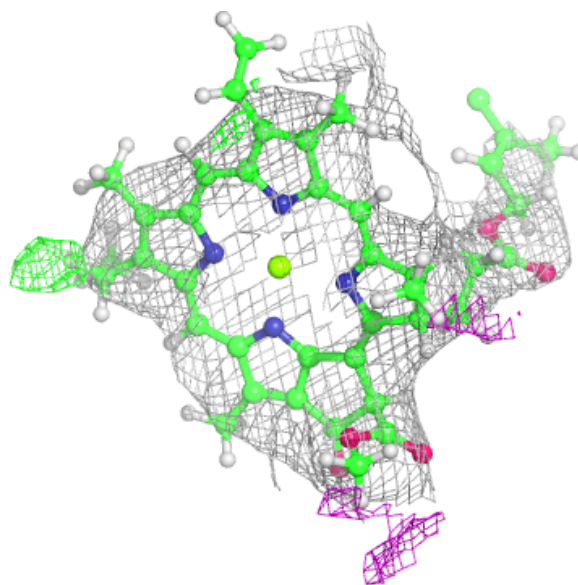
**Electron density around LMG B 3048:**

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



**Electron density around CLA A 832:**

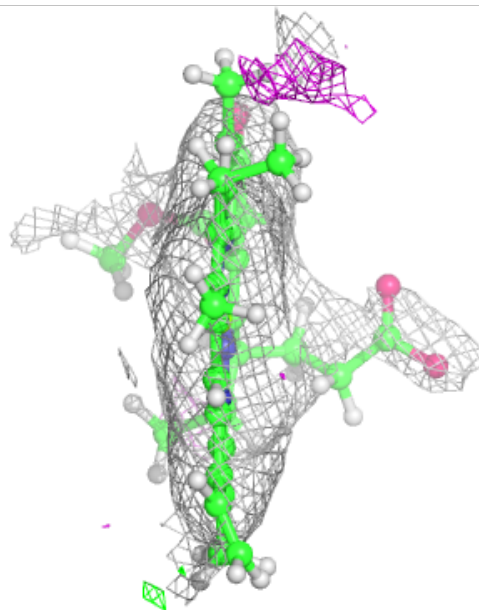
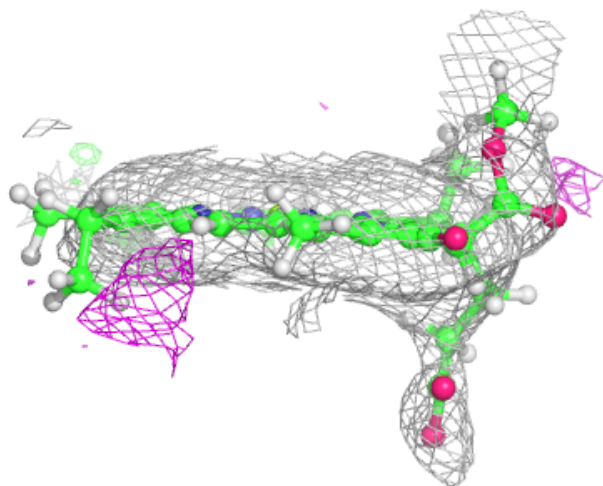
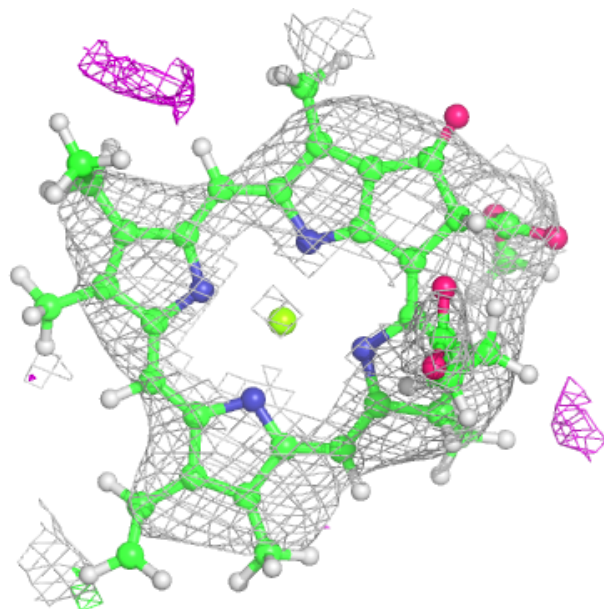
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





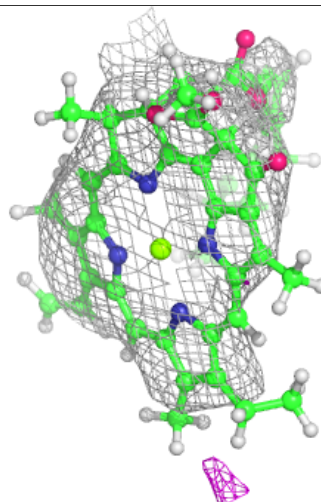
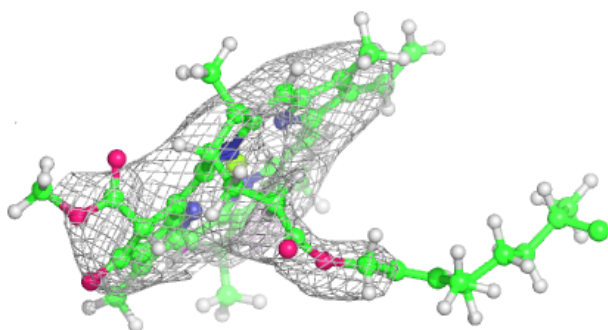
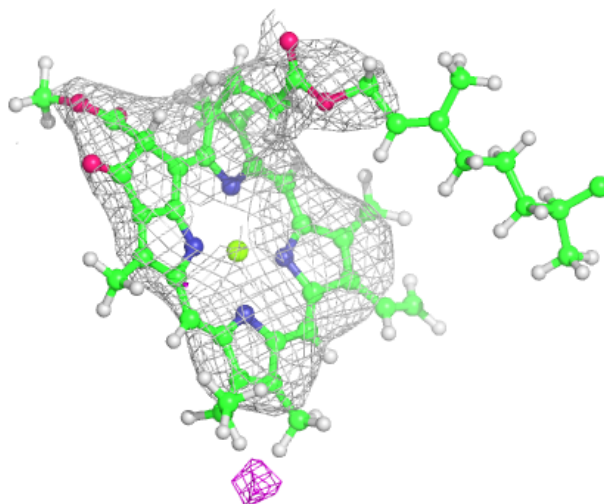
**Electron density around CLA B 3016:**

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



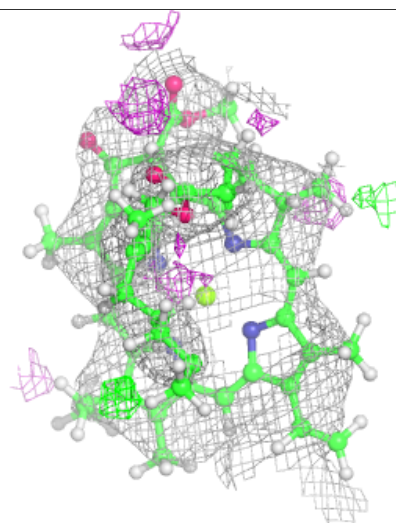
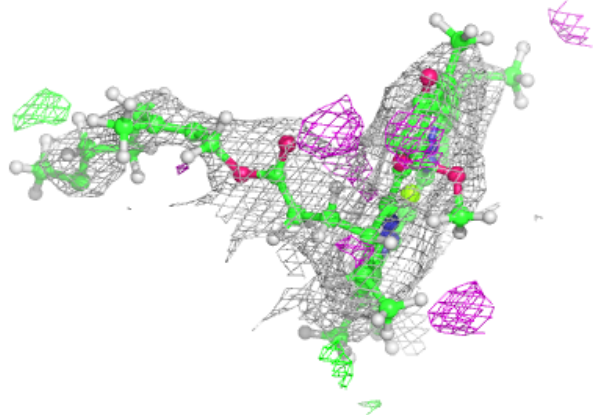
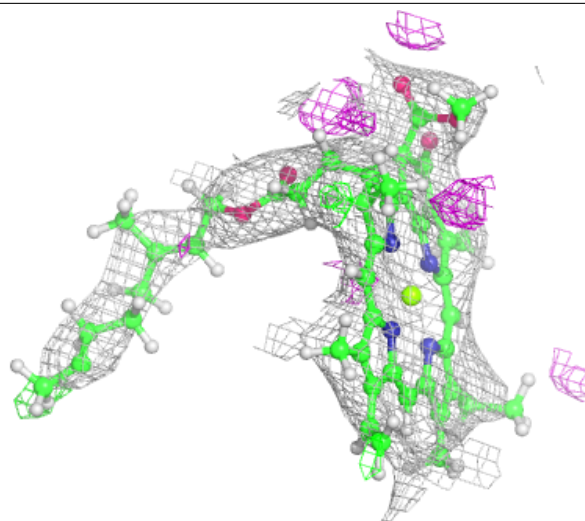
**Electron density around CLA B 3017:**

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



**Electron density around CLA B 3005:**

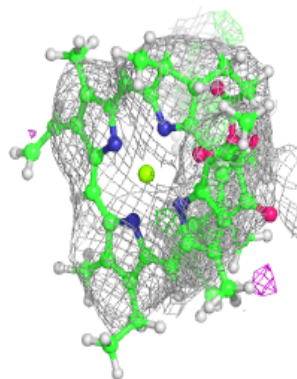
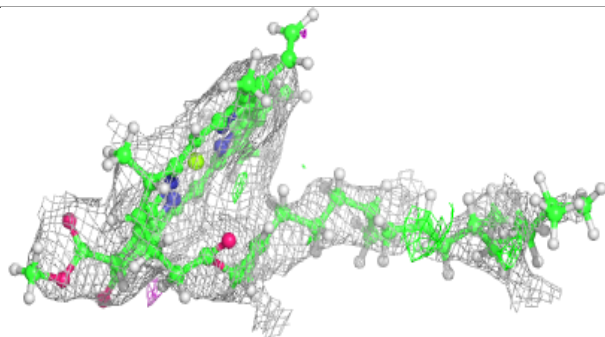
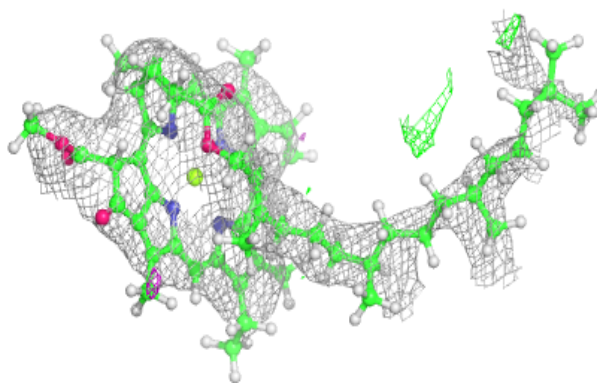
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



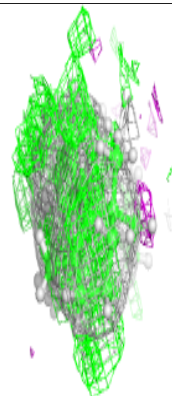
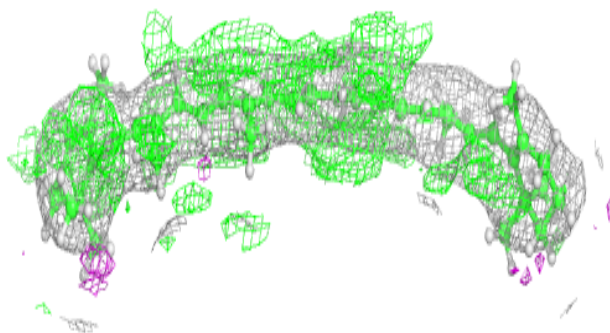
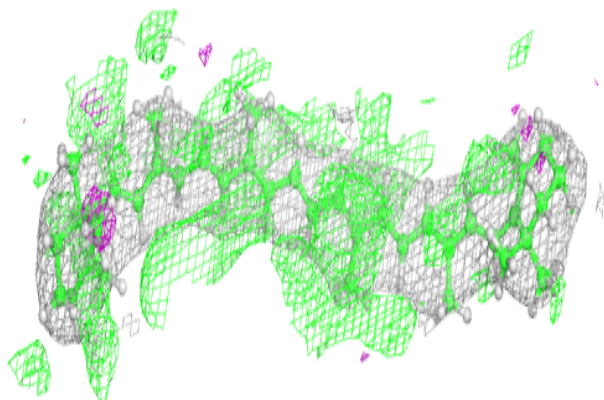


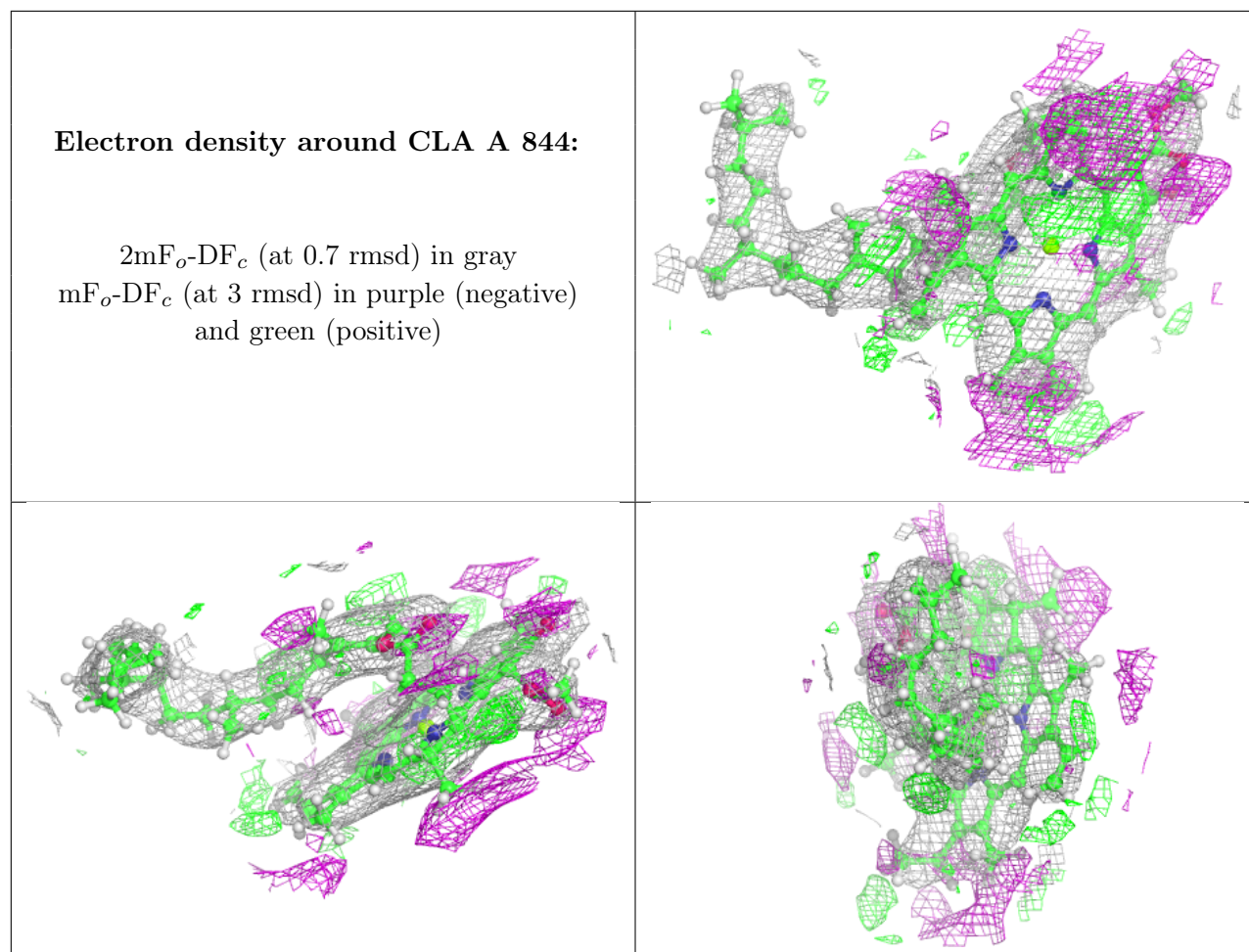
**Electron density around CLA A 843:**

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

**Electron density around BCR I 102:**

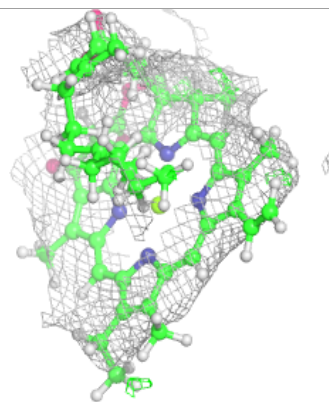
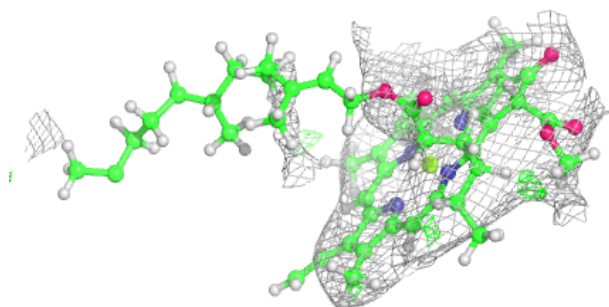
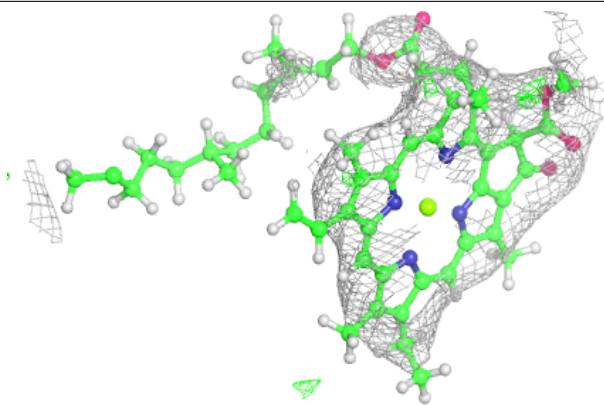
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



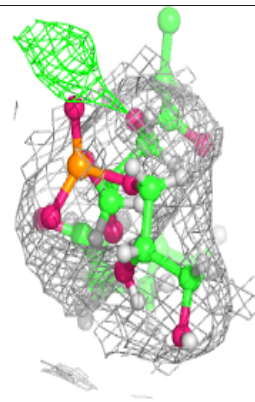
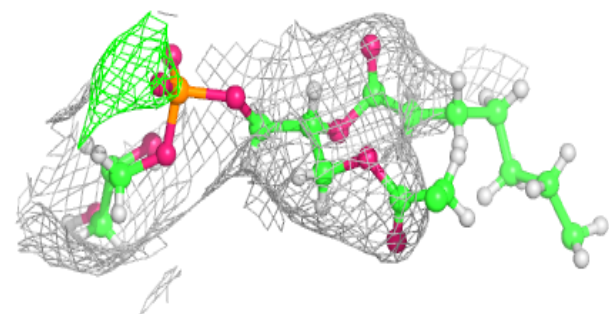
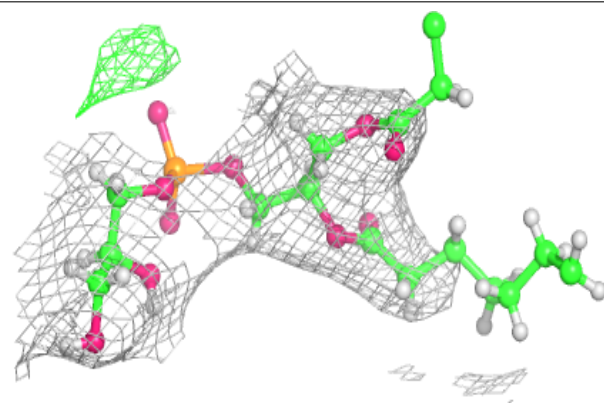


**Electron density around CLA A 825:**

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

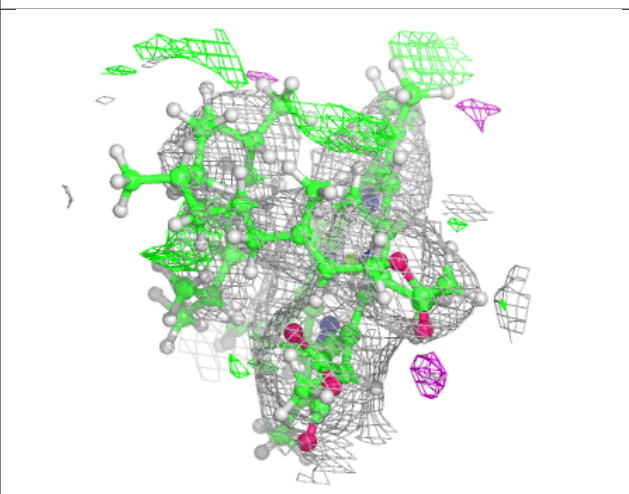
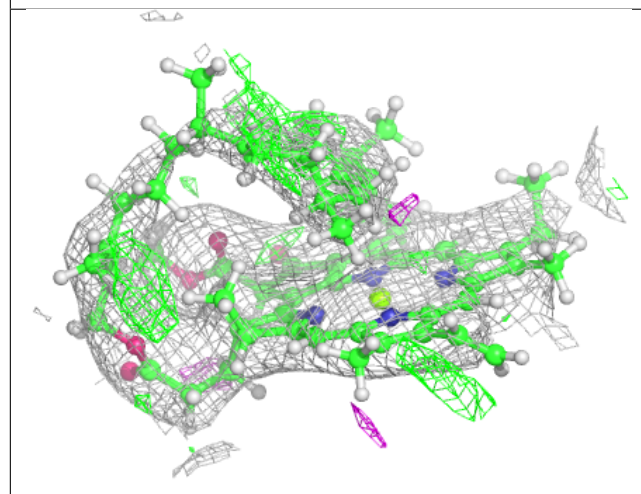
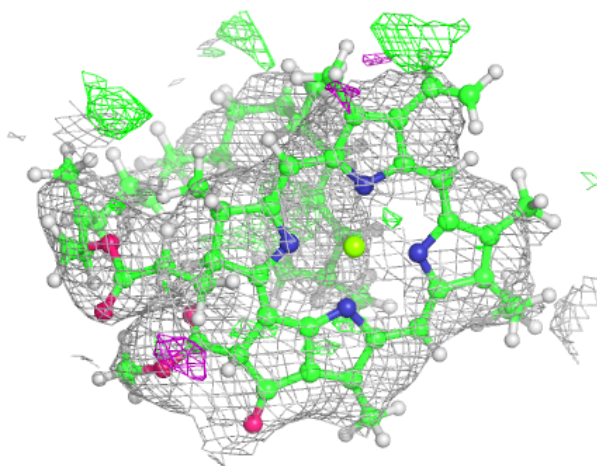
**Electron density around LHG A 854:**

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



**Electron density around CLA B 3007:**

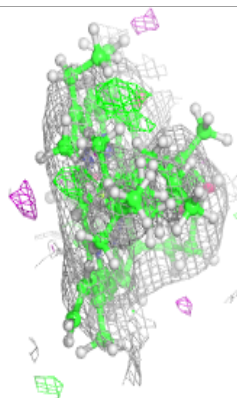
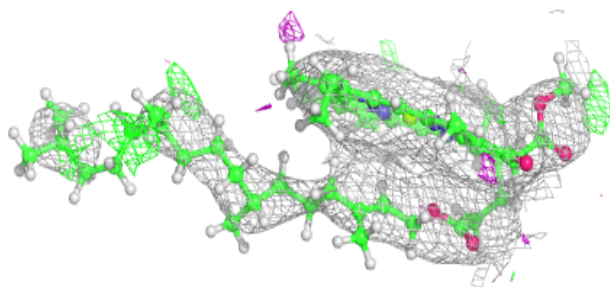
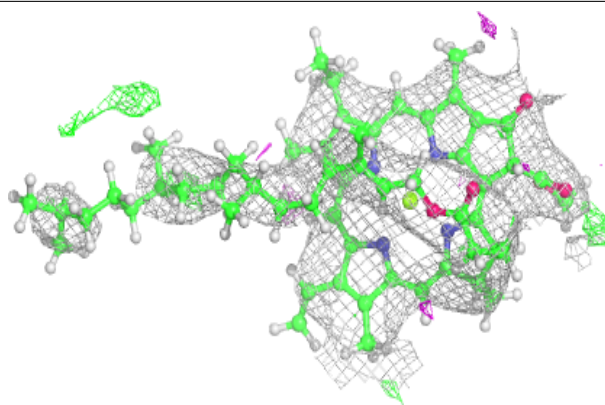
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



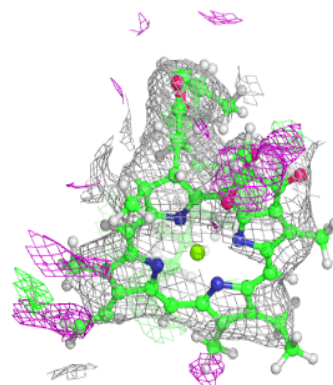
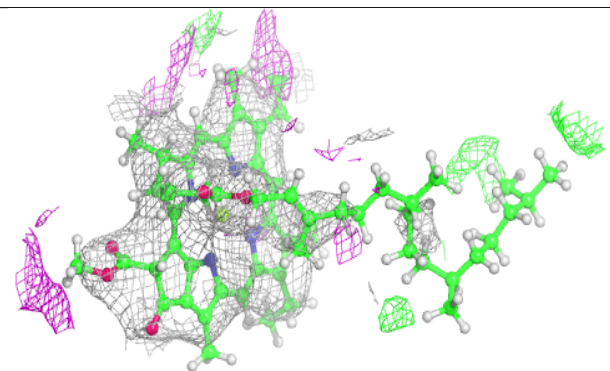
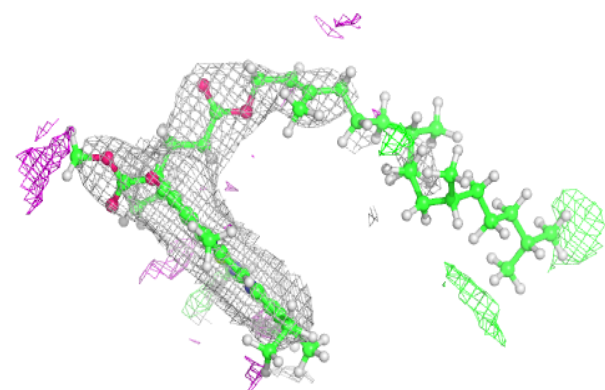


**Electron density around CLA A 839:**

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

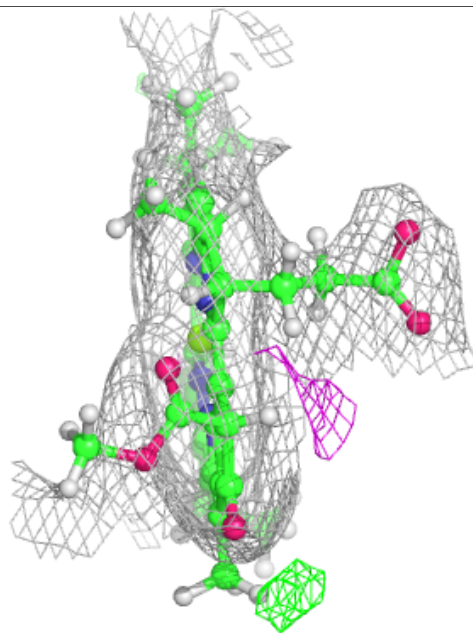
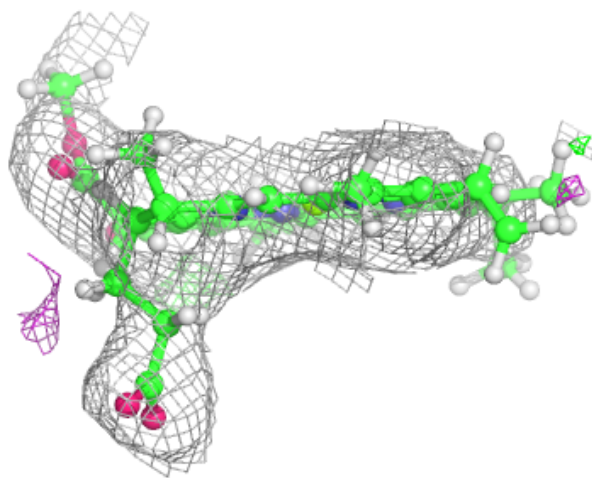
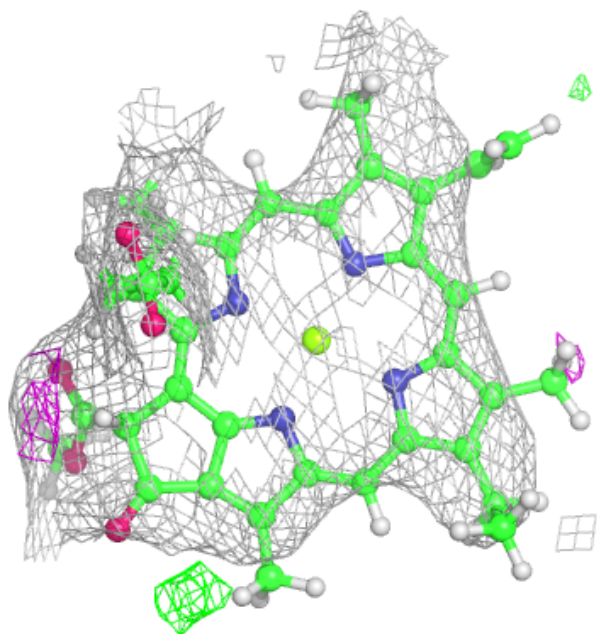
**Electron density around CLA A 833:**

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



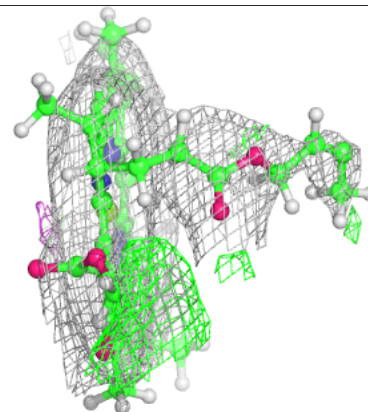
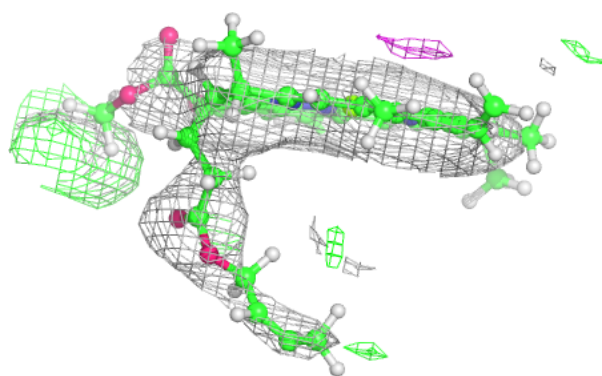
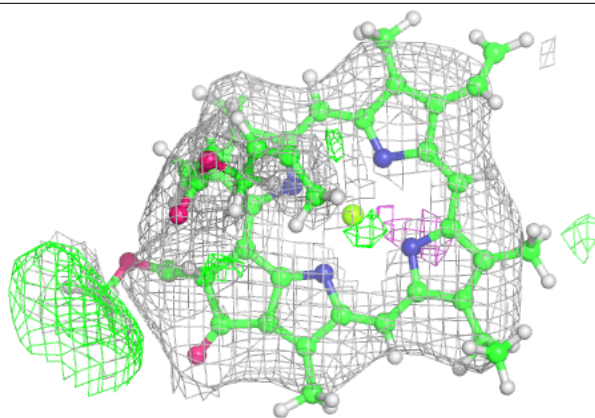
**Electron density around CLA B 3031:**

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

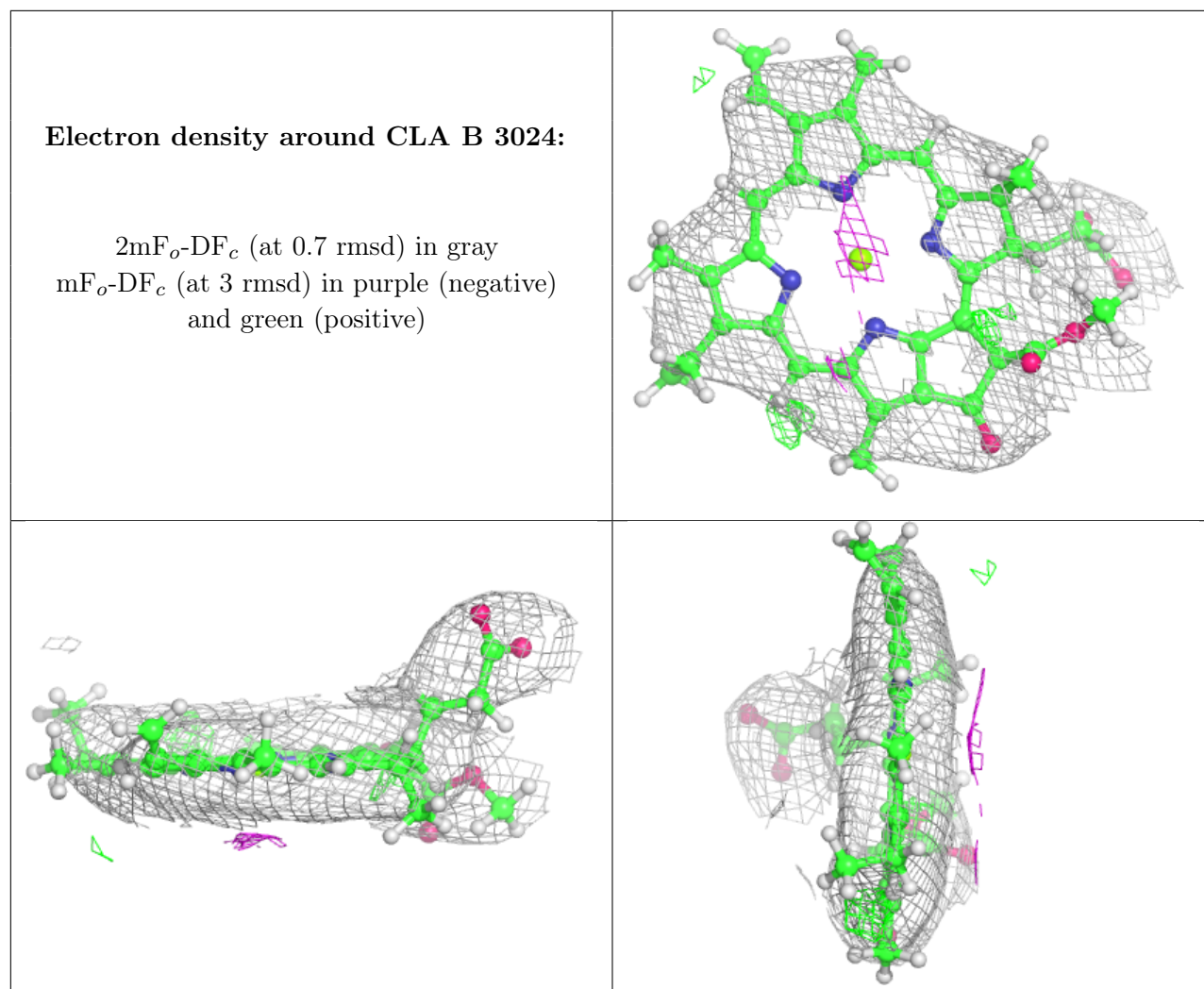


**Electron density around CLA B 3032:**

$2mF_o-DF_c$  (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.